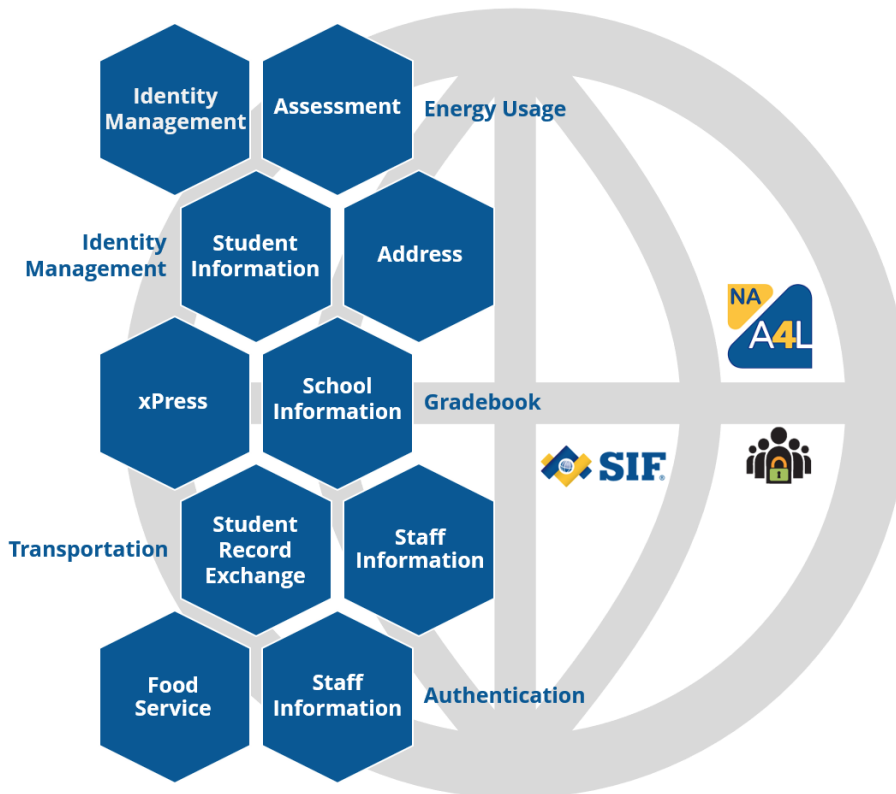


Access 4 Learning™ Community Unity Data Model

SIF Data Model Implementation Specification (NA) 4.0

June 24, 2019



This version:

<http://specification.sifassociation.org/Implementation/NA/4.0/>

Latest version:

<http://specification.sifassociation.org/Implementation/NA/>

Primary Schema

Schema_NoIncludes_Strict (single file, non-annotated) (ZIP archive)

Other Schemas

Schema_NoIncludes_Lax (single file, non-annotated) (ZIP archive)
 Schema_NoIncludes_Annotated_Lax (single file, annotated) (ZIP archive)
 Schema_Lax (includes, non-annotated) (ZIP archive)
 Schema_Annotated_Lax (includes, annotated) (ZIP archive)
 Schema_NoIncludes_Annotated_Strict (single file, annotated) (ZIP archive)
 Schema_Strict (includes, non-annotated) (ZIP archive)
 Schema_Annotated_Strict (includes, annotated) (ZIP archive)

Note: SIF_Message schemas define every data object element as optional per SIF's Publish/Subscribe and SIF Request/Response Models; DataModel schemas maintain the cardinality of all data object elements.

This document is also available in these non-normative formats: ZIP archive, PDF (for printing as a single file), Excel spreadsheet.

Summaries of the changes in this release and errata since its release can be found with the Background Supplementary Documentation

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1 Preamble

1.1 Abstract

1.1.1 What is SIF?

SIF is not a product, but a technical blueprint for enabling diverse applications to interact and share data related to entities in the pK-12 instructional and administrative environment. SIF is designed to:

- Facilitate data sharing and reporting between applications without incurring expensive customer development costs;
- Enhance product functionality efficiently; and
- Provide best-of-breed solutions to customers easily and seamlessly.

The SIF Implementation Specification defines common data formats and rules of interaction and architecture, and is made up of two parts:

1. The *SIF Infrastructure* Implementation Specification which defines the rules of interaction and messages framework, and;
2. The *SIF Data Model* Implementation Specification which is an XML-based data model that models entities in the learning environment as SIF Data Objects to be shared between applications.

SIF 3 Infrastructure defines:

- a secure REST-based transport protocol for defining both direct and brokered connections between software applications (which can act as REST servers or clients)
 - a set of services to enable interactions between REST servers and clients, including creating environments, other administrative task, synchronous exchanges of data, and asynchronous message queues
 - an abstract, platform-independent definition of the API between one software application and another or a broker.
- A *SIF Environment* is a distributed system that consists of one or more software applications with a SIF Adapter (a SIF-enabled application) sharing/reporting one or more SIF data objects over a network; it may also involve middleware (a message broker). A *SIF Implementation* consists of one or more SIF Environments deployed and configured to meet customer data sharing and reporting needs.
- The SIF Implementation Specification defines architecture requirements and communication protocols for software components and the interfaces between them; it makes no assumption of specific hardware or software products needed to develop SIF-enabled applications and/or middleware implementations, other than their ability to support technologies leveraged as the foundation for SIF, most prominently XML and HTTP(S) and including JSON and REST.

1.1.2 SIF Association

The Schools Interoperability Framework Association (SIF Association); also known as: The Systems Interoperability Framework Association, is an industry initiative to enable interoperability and data sharing between software applications in the pK-12 instructional and administrative environment, and the forum for companies and educators to participate in the development of SIF specifications in the SIF Association's working groups and task forces. The SIF Association is designed to:

- Join industry leaders in creating the next-generation framework for education technology; and
- Leverage co-marketing opportunities with partners and distributors.

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 A.700 xIepType
 A.701 xLanguageCodeType
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 A.703 xLanguageType
 A.704 xLoginIdType
 A.705 xMeetingTimeListType
 A.706 xMeetingTimeType
 A.707 XMLDataType
 A.708 xOrganizationAddressType
 A.709 xOrganizationIdentificationSystemType
 A.710 xOrganizationIdType
 A.711 xOrganizationType
 A.712 xOtherCourseIdListType
 A.713 xOtherCourseIdType
 A.714 xOtherOrganizationIdListType
 A.715 xOtherOrganizationIdType
 A.716 xOtherPersonAddressListType
 A.717 xOtherPersonIdListType
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 A.730 xStaffPersonAssignmentType
 A.731 xStaffReferenceListType
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LearningStandardItem
 Course Code System
 Organization Identification System
 StudentPlacement
 Other Services
 Other Types of Transportation
 Title I Services
 TestAccommodation

Scheduling
Setting
Student Equipment and Technology
Test Administration
Test Material
Test Response

x

Address Type For Learner Or Family
Address Type For Organization
Country Code
Course Code System
Day Of Week
Disability
Education Staff Classification
Email Type
Employer
Exit Or Withdrawal
Grade Level
Language Type
Membership Type
Person Id System
Person Name Type
Person Relationship To Learner
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2 Introduction

2.1 Specification Organization

With respect to the SIF Specification, educators and non-technical readers are typically interested in the pK-12 data objects that can be shared and reported on by SIF-enabled applications in SIF implementations. This document, the *SIF Data Model Implementation Specification*, contains a *Data Model* section in a format that should not be a barrier to readers with a some knowledge of [XML]. More technical readers, including software architects, developers and integrators, will also be interested in the separate *SIF Infrastructure Implementation Specification* document.

- The Preamble provides an abstract of SIF along with the SIF Association disclaimer and details regarding certification and compliance claims.
- This Introduction outlines the organization of this specification document, provides conventions used in this document, and summarizes versioning of the specification. Highlights of additions/changes since the previous version of the specification are also provided.
- The *Data Model* section provides definitions of the XML structure for common elements in the data model and all objects related to entities in the pK-12 environment. This section is organized by the working groups and task forces within the SIF Association that have defined common elements or objects.
- The document concludes with various appendices including lists of code set values defined within SIF and in external documents, and ends with a list of references to other documents.

2.2 Document Conventions

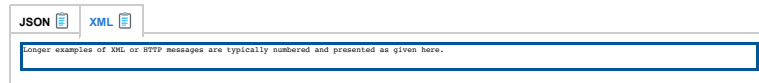
2.2.1 Definitions

The first time a term or concept is defined, it may be *emphasized*.

2.2.2 Structure and Values

SIF message and object names, XML element tags, attribute names and values, and other codes or values are typically presented as in this sentence.

2.2.3 Examples



Example 2.2.3-1: Examples Convention

2.2.4 References

References to other works occurring in this text are given in brackets, e.g. [REFERENCE]. The text in brackets corresponds to a key in the *References* appendix. Often when the text in the brackets duplicates surrounding text, the reference alone is used (e.g. [XML] instead of XML [XML]).

2.2.5 Terminology

The key words **MUST**, **MUST NOT**, **REQUIRED**, **SHALL**, **SHALL NOT**, **SHOULD**, **SHOULD NOT**, **RECOMMENDED**, **MAY**, **OPTIONAL**, when **EMPHASIZED**, are to be interpreted as described in [RFC 2119].

2.2.6 XML Diagrams

Quick overviews of XML structures, including messages, objects, common elements and types, are provided in XML diagrams. The following diagram illustrates the conventions typically encountered in SIF.

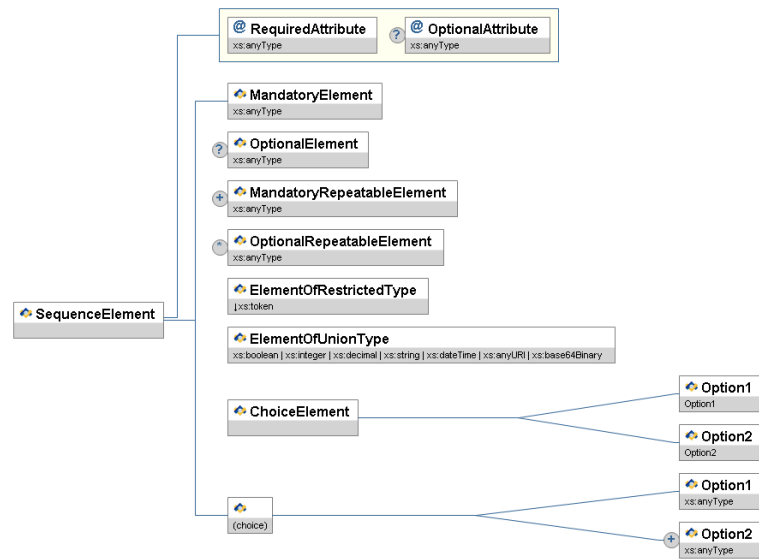


Figure 2.2.6-1: XML Diagram Conventions

XML elements are represented by rectangles with the name of the element in the upper portion and the type, if any, in the lower portion. Attributes are represented in the same fashion, but have an @ icon rather than a SIF icon. Elements and attributes that are optional have a circled 0 or 1 occurrence) to the left of the rectangle. Optional and mandatory repeatable elements are indicated by a circled + (0 or more occurrences) and + (1 or more occurrences), respectively. Element attributes are grouped together in a rectangular block and connected to the element with a line that turns at right angles. Ordered sequences of XML elements are bracketed by lines that turn at right angles. When a choice of XML elements is indicated, the elements are bracketed by angled lines. A choice of elements can occur within an element, or may be an unnamed choice of elements.

XML types are represented using the same conventions as for XML elements, though the type portion of the rectangle typically indicates a base type, if any.

The type name of any element, attribute or type may be prefixed with a |, indicating the type is restricted in some fashion by one or more XML Schema facets (e.g. enumeration). When the type is a union of types, a list of types is presented, each type separated by |; if the list of union types is long, the list may be marked with ellipses, e.g., | ...

In an actual XML diagram, element, type and attribute rectangles are usually linked to their corresponding definitions/descriptions in accompanying tables.

2.3 Version Numbers

The SIF Implementation Specification uses the following version numbering scheme:

major version.minor version.revision number (x.y.z)

Once a versioned specification (Specification Release) has been released, the contents of that version **MUST NOT** be modified. Any modifications **MUST** be released under a new Specification Version Number unless the modification is the correction of an error or update of documentation. Each Specification Release has an associated errata section in which modifications and corrections of the release are listed.


A Specification Version Number for a Specification Release uses conventions as follows:

- A Specification Version Number **MAY** take the form *x.y.z* where *x*, *y*, and *z* are nonnegative integers (whole numbers), and **MUST NOT** contain leading zeroes. *x* represents the *Major version*, *y* represents the *Minor version*, and *z* represents the *Revision version*.
- Each version number element **MUST** increase sequentially based on the guidelines defined within this document; for instance, 1.9.1 to 1.10 to 1.11 to 1.11.1.
- Precedence refers to how versions are compared to each other when ordered. Precedence **MUST** be calculated by separating the version into major, minor, revision identifiers in that order. Precedence is determined by the first difference when comparing each of these identifiers from left to right as follows: Major, Minor, and Revision versions are always compared numerically; for example, 1.0.0 < 2.0.0 < 2.1.0 < 2.1.1.


An instance of a Specification Version Number is the canonical identifier for a Specification Release. The manner in which the Specification Version Number increments after a given Specification Release depends on the type and relative magnitude of changes being proposed in the new release as follows:


1. The Revision version number (*z* in *x.y.z*, where *x* >= 0) **MUST** be incremented when specification changes are limited to backward compatible changes. If *z*=0 then the convention is to drop the Revision number; for example, 3.1 instead of 3.1.0. Backward compatible changes include the following:


- New data object.
- New optional data object element.


 New optional utility service object element.


2. The Minor version number (y in $x.y.z$, where $x > 0$) MUST be incremented if new functionality is added to the specification. It MUST be incremented if any aspect of the specification is marked as deprecated. It MUST be incremented if any aspect of the specification is not backward compatible. (Backward compatible means any change that can be implemented by one participant (consumer, Environment or service provider) without requiring changes by other participants to maintaining the same level of interoperability.) It MAY be incremented if substantial new functionality or improvements are introduced. It MAY include changes that are categorized as "Revision" level magnitude. The Revision version MUST be reset to 0 when the Minor version is incremented. Changes requiring a Minor version increment include the following:

 New mandatory data object element.


 New mandatory utility service object element.

 Deprecate data object element.


 Deprecate data object.


 Deprecate utility service object element.


 Deprecate utility service object.


 Remove deprecated data object element.


 Remove deprecated data object.


 Remove deprecated utility service object element.


 Remove deprecated utility service object.

 Add support for additional authentication methods.


 Add support for additional TLS version.


 Any changes concerning security.


 Any optional to mandatory change.


 Add support for additional payload representations.


3. The Major version number (x in $x.y.z$, where $x > 0$) MUST be incremented if a significant change is introduced to the specification. It MAY include changes categorized as Minor and Revision level changes. The Revision and Minor version numbers MUST be reset to 0 when the Major version is incremented. Changes requiring a Major version increment include the following:

 Deprecate payload representation.

 Remove deprecated payload representation.

 Add support for a distinct data model namespace.

 Replace (deprecate and remove) a locale data model.

 Any significant change that requires the Major version to be incremented as deemed by the A4L Association Board for global specifications and Management Boards for locale data models.

3 Data Model

3.1 Introduction

This section presents the XML structure for SIF Data Model common elements and objects in a tabular format for readers less versed in parsing formal XML schema definitions, along with conventions that typically apply in the data model for easy reference.

3.1.1 Format

The Char(acteristics) column for all of the tables in this section use the following codes:

Code	Characteristic
M	Mandatory element or attribute
O	Optional element or attribute
C	Conditional element or attribute
MR	Mandatory and repeatable element
OR	Optional and repeatable element
CR	Conditional and repeatable element

Mandatory elements **MUST** be present in Add events, and in non-empty and non-error responses to requests for entire SIF objects (e.g., no `SIF_Query/SIF_QueryObject/SIF_Element` elements supplied in the request). Mandatory attributes **MUST** always be present if their corresponding element is present.

SIF Adapters and message brokers **MUST** supply data according to the types specified in the Type columns and their corresponding equivalents in the most recent schema files associated with this specification. If there is a discrepancy between object and element definitions in this specification and the corresponding schema files, the definition in the schema files takes precedence; every effort will be made to note discrepancies in the [schemas](#) for this document as they are identified.

3.1.2 Conventions

3.1.2.1 Object Attributes/Primary Keys

While XML attributes are primarily used in SIF to provide additional processing information regarding the associated element content, attributes at the root level of an object have special significance. These attributes serve as the primary key or identifier for the object; in all cases this is no more than a `RefId` GUID of `RefIdType`.

3.1.2.2 Object References

As stated elsewhere, SIF primarily uses GUIDs as object identifiers, primary keys, or `RefIds`. References to primary keys (foreign key references) follow certain conventions in SIF in most objects:

- An element or attribute of type `IdRefType` can be defined that consists of the referenced object name concatenated with `RefId`, e.g., `DataPersonalRefId` (a reference to the object identifier/primary key/`RefId` of a `DataPersonal` object);
- An element requiring a more descriptive name for the reference or one that refers to more than one object type is defined as `IdRefType`, has an element name of a group's choosing (or generically `SIF_RefId`) and enumerates all possible object types that can be referenced in the `SIF_RefObject` attribute; or
- A pair of attributes can be defined, one of type `IdRefType` containing the referenced object's `RefId`, the other enumerating all possible object types that can be referenced; generically these are named `SIF_RefId` and `SIF_RefObject`, respectively; naming conventions that programmatically allow identification of the pair beyond the generic names will be documented when the need arises.

3.1.2.3 Lists/Repeatable Elements

To those accustomed with normalized relational databases, the SIF Data Model will appear to not be especially normalized, especially with regard to repeating groups of data not being separated into their own "tables," or in SIF's case, "objects" with primary/foreign keys to maintain the relationship. Bear in mind that SIF is not a format for storing data; it is a format for transmitting data *asynchronously* between *disparate* and *distributed* systems needing to share data for interoperability; the format this data takes in different systems can vary greatly, and the data related to any given "entity" may come from a variety of sources and systems. The goals of normalization—eliminating redundancy, organizing data efficiently, reducing inconsistencies, etc.—take on a different meaning in a message queuing system. Of primary importance is transmitting the data needed for interoperability in a minimum number of messages. The need to "join" together a great number of separate objects is kept to a minimum in SIF, as individual systems do not have access to all the data required and due to the asynchronous nature of SIF, any one of these systems may take a fair amount of time before returning data necessary for joins (`SIF_ExtendedQuery` has been developed to communicate a join to a single system that may have direct access to all the data necessary to efficiently accomplish this task). It's one thing to make a separate request for a student's picture or enrollment information, another entirely to request every available phone number, address and e-mail address separately from the SIF Environment. As such, it is often the case in SIF that repeating data is stored directly in an object, rather than being separated out into a separate object.

Repeating data is very analogous to objects, though, within any given object. In SIF's Publish/Subscribe model, repeating elements in objects can be added to, changed in or deleted from an object, much like objects can be added to, changed in or deleted from a SIF Environment. Within an existing object, all of these actions take place within a change event, and repeating elements—if any exist initially—are first made available within an object in an Add event or can be obtained directly via requests. Repeatable elements are contained within a parent `List` element in most SIF objects whether or not they support events, e.g.:

3.1.2.3.1 List

While a unique, primary key may still be identifiable in its child elements, a `List` is used primarily when:

- the list is a cohesive whole conceptually, where supporting or referring to a subset of the list is of little value;
- when the list consists only of keys, and no associated data;
- the list is informational/temporary state information and not typically persisted; or
- when no key exists to uniquely identify items in the list.

`Lists` are always transmitted as a cohesive unit consisting of the parent list container element and all child elements. If no child elements exist in the list, the list consists of the container element alone. Omission of an optional `List` in an Add event also implies no list items. In a change event, omission of the `List` indicates no changes have been made; otherwise the parent container element and all child elements, if any, are included. Systems storing `List` data should replace all corresponding data in their systems when persisting the list; likewise when a change is made to one or more list items or when all items in the list are deleted, systems should send the whole list in a change event.

A system that supports `CountriesOfCitizenship` updates its local data to reflect and German citizenship.

3.1.3 Validation

3.1.3.1 Supported Optional Elements Without Values

Some agents follow the convention of supplying an optional element as empty (e.g. `<Birthdate></Birthdate>` or `<Birthdate/>`) to indicate that the application supports the element, but that it currently has no value available within a given object. To allow for this convention within SIF—as in this example an empty string does not satisfy the `xs:date` type definition of `Birthdate`—all optional elements in SIF are defined as `nullable` [SCHEMA]. To satisfy type constraints on an element while still supplying an empty or "nil" value, agents **MUST** tag the element with a true value for the `nil` attribute from namespace `http://www.w3.org/2001/XMLSchema-instance` [SCHEMA] (e.g. `<Birthdate xsi:nil="true"/>` where the prefix `xsi` has been mapped to the namespace `http://www.w3.org/2001/XMLSchema-instance`), unless an empty value is valid with regard to the element's type definition, in which case supplying the `nil` attribute value of `true` is optional.

3.1.3.2 Externally-Defined XML

Note that XML not defined within SIF does not necessarily support ad hoc omission of XML elements at will to conform with the conventions of the SIF Publish/Subscribe Model (where unchanged elements are typically omitted in Change events, and where non-key elements are often omitted in Delete events) or of the SIF Request/Response Model (where a subset of elements can be retrieved from objects with requests). If externally-defined XML occurs within a SIF data object, SIF conventions do not extend to that XML unless that XML is defined to accommodate SIF conventions; the XML, when transmitted, must only conform to any external definitions dictating its structure, if any. Applications should be prepared for the possibility of receiving whole externally-defined XML structures in Change events (regardless of how little or much of the external XML has changed) and possibly also Delete events, likewise in responses even when a subset of the XML structure's child elements may have explicitly been requested.

3.1.3.3 Payload Validation

There are two sets of XSDs available for Validation of Payload.

3.1.3.3.1 Create

The first set, "DataModel" is 'strict' and all of the elements that are required for validation are 'Mandatory' in this suite of XSDs. This suite is traditionally used for Creation of new entities, which generally require validation before being saved into a Data Store.

3.1.3.3.2 Update

The second set, "SIF_Message" is 'lax' and every element within the schema is 'optional' except the 'RefId' the identifying GUID/UUID. (However, required elements are not nullable.) This suite of XSDs are traditionally used for Update and Delete of current entities. If an element is not included in the payload of an Update operation, its value is assumed to be unchanged. In addition, if the payload contains the `RefId/UUID` only, the consumer must assume that object to be DELETED or that it has been deleted since the original request was made.

3.2 Assessment Working Group

The Assessment Working Group concentrates on ensuring that assessment results can be made available in a timely manner and that the results are transmitted in a meaningful manner.

3.2.1 Assessment

An assessment measures a student's progress and learning on specific academic standards.

SIF_Events are not reported for this object.

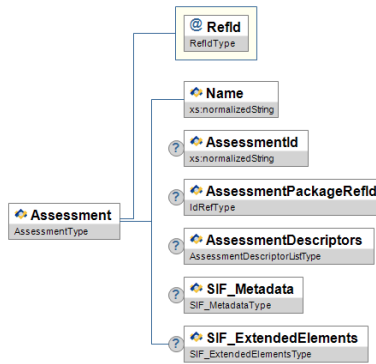


Figure 3.2.1-1: Assessment

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
Assessment					
Refid	M		000364 https://ceds.ed.gov/element/000364	The GUID that uniquely identifies this object.	RefIdType
Name	M		000028 https://ceds.ed.gov/element/000028	Name of the test.	xs:normalizedString
AssessmentId	O		000630 https://ceds.ed.gov/element/000630	The state, local or publisher unique Id for the assessment.	xs:normalizedString
AssessmentPackageRefid	O				IdRefType
AssessmentDescriptors	O			Describes what type of assessment this represents.	AssessmentDescriptorListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.1-1: Assessment

```

JSON XML
<Assessment RefId="CC2B34DE9138FAB032E3998A72A8234">
  <Name>NAME Test</Name>
  <AssessmentId>TX48A</AssessmentId>
  <AssessmentPackageRefId>C0988440E03FD0469A329AC59410814E</AssessmentPackageRefId>
  <AssessmentDescriptors>
  <AssessmentDescriptor>Statewide</AssessmentDescriptor>
  </AssessmentDescriptors>
</Assessment>
    
```

Example 3.2.1-1: Assessment

3.2.2 AssessmentAdministration

This object represents an assessment event. It includes information related to the time of administration, place of administration, and unusual events related to the administration.

SIF_Events are reported for this object.

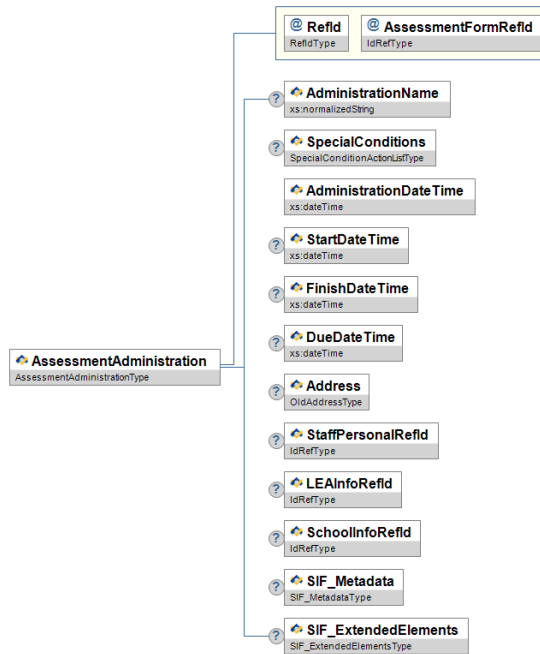


Figure 3.2.2-1: AssessmentAdministration

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AssessmentAdministration				This object represents an assessment event. It includes information related to the time of administration, place of administration, and unusual events related to the administration.	
@ RefId	M			The GUID that uniquely identifies an instance of the object.	RefIdType
@ AssessmentFormRefId	M			The RefId of the assessment form used in the assessment administration.	IdRefType
AdministrationName	O		000410 https://ceds.ed.gov/element/000410		xs:normalizedString
SpecialConditions	O			Special conditions or unusual events related to the administration event.	SpecialConditionActionListType
AdministrationDateTime	M			Date and time the test is scheduled to be given.	xs:dateTime
StartDateTime	O			Date and time testing begins.	xs:dateTime
FinishDateTime	O		000023 https://ceds.ed.gov/element/000023	Date and time testing ends.	xs:dateTime
DueDateTime	O			Date and time test is due.	xs:dateTime
Address	O			Address of the location where the administration takes place.	IdAddressType
StaffPersonalRefId	O			Optional reference to a staff person associated with the administration.	IdRefType
LEAInfoRefId	O			Optional reference to a school district associated with the administration.	IdRefType
SchoolInfoRefId	O			Optional reference to a school associated with the administration.	IdRefType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.2-1: AssessmentAdministration

```

JSON XML
<AssessmentAdministration RefId="E2E8045FD8884745AC588F1D008E864" AssessmentFormRefId="78DA3F367AAE4834995CE15530F31CC">
  <SpecialConditions>
    <SpecialCondition Code="258">Fire drill during test.</SpecialCondition>
  </SpecialConditions>
  <AdministrationDateTime>2006-03-06T14:30:00-05:00</AdministrationDateTime>
  <FinishDateTime>2006-03-06T15:30:00-05:00</FinishDateTime>
</AssessmentAdministration>
    
```

Example 3.2.2-1: AssessmentAdministration

3.2.3 AssessmentForm

Represents the unique set of questions or stimuli given to a set of test takers. A physical correlate of the assessment form is the test booklet given to students during an assessment. However, this object does not contain the questions, it only contains elements that describe the form for use in scoring the questions.

SIF_Events are not reported for this object.

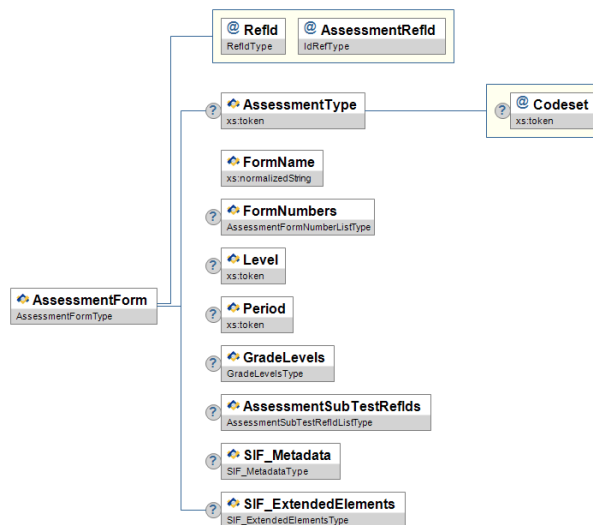


Figure 3.2.3-1: AssessmentForm

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AssessmentForm				Represents the unique set of questions or stimuli given to a set of test takers. A physical correlate of the assessment form is the test booklet given to students during an assessment. However, this object does not contain the questions, it only contains elements that describe the form for use in scoring the questions.	
@ RefId	M			The GUID that uniquely identifies an instance of the object.	RefIdType
@ AssessmentRefId	M			The RefId of the assessment related to this form.	IdRefType
AssessmentType	O		000029 https://ceds.ed.gov/element/000029	Indicates whether this assessment (form) is a standard administration or alternate.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
FormName	M			Text description for this particular arrangement of questions, etc.	xs:normalizedString
FormNumbers	O			Reference numbers for the form.	AssessmentFormNumberListType
Level	O		000177 https://ceds.ed.gov/element/000177	Indicates the level of the form. Examples Grade 3 Leveling System	xs:token
Period	O		000408 https://ceds.ed.gov/element/000408	The time period in which the form is intended to be administered.	xs:token
GradeLevels	O			Grade levels this assessment is designed to evaluate.	GradeLevelListType
AssessmentSubTestRefIds	O			Associated subtests (score types). Each form can provide scores in one or more subtest areas.	AssessmentSubTestRefIdListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.3-1: AssessmentForm

```

JSON
XML
<AssessmentForm RefId="13F3C7AF9444E8196280622A010893E" AssessmentRefId="77C5D8A7345B48E883052228C9708512">
  <AssessmentType>standard</AssessmentType>
  <FormName>Form A</FormName>
  <FormNumbers>
    <FormNumber>34</FormNumber>
  </FormNumbers>
</AssessmentForm>
    
```

Example 3.2.3-1: AssessmentForm

3.2.4 AssessmentItem

This object is designed to allow software systems to provide item detail information such as the stem of the item, the distractors, the stimuli, etc. This initial version of the object does not deal with presentation aspects of the item. Instead it focuses on the item content and characteristics needed to enable interoperability and the usage of item-level information in the improvement of learning and instruction.

SIF_Events are not reported for this object.

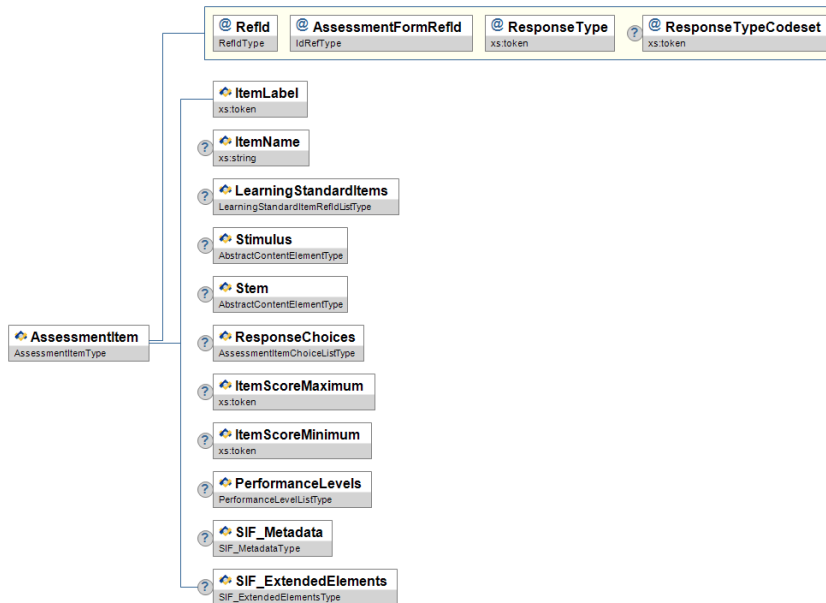


Figure 3.2.4-1: AssessmentItem

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AssessmentItem				This object is designed to allow software systems to provide item detail information such as the stem of the item, the distractors, the stimuli, etc. This initial version of the object does not deal with presentation aspects of the item. Instead it focuses on the item content and characteristics needed to enable interoperability and the usage of item-level information in the improvement of learning and instruction.	
@ RefId	M				RefIdType
AssessmentFormRefId	M			This RefId points to the assessment form of which the item is a part.	IdRefType
ResponseType	M		000390 https://ceds.ed.gov/element/000390	A value that indicates the response type for the item.	xs:token
ResponseTypeCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ItemLabel	M			An item number or other identifier for the item. It may be used to indicate the order or grouping of items.	xs:token
ItemName	O		000398 https://ceds.ed.gov/element/000398	Name or short description of the item.	xs:string
LearningStandardItems	O			This object contains information related to curriculum standards statements "standards" or "benchmarks" or the like within the document. This object primarily focuses upon state department curriculum standards, published curriculum standards and local education agency learning standards. Each LearningStandardItemRefId reflects an individual standard statement and may occur at several levels within a hierarchially structured document.	LearningStandardItemRefIdListType
Stimulus	C			A piece of content to be used by the test taker in responding to the stem. Examples include a reading passage, a video, a diagram, or a picture. Note: The stimulus element only is included when a stem element exists.	AbstractContentElementType
Stem	O			The question, task, or statement that prompts a response from the test taker.	AbstractContentElementType
ResponseChoices	C			This complex element will not be included in the object if #responseType is: <ul style="list-style-type: none"> fill-in-the-blank short-answer essay Other cases will be added in the future.	AssessmentItemChoiceListType
ItemScoreMaximum	O		000419 https://ceds.ed.gov/element/000419	The maximum item score possible for this item.	xs:token
ItemScoreMinimum	O		000418 https://ceds.ed.gov/element/000418	The minimum item score possible for this item.	xs:token
PerformanceLevels	O			Performance Levels are an ordered set of categories that indicate the achievement level of a person on an assessment.	PerformanceLevelListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.4-1: AssessmentItem

```

JSON XML
<AssessmentItem RefId="C294F3E190F019AD8E1DFC93675376C" AssessmentFormRefId="9372C8EA910FF87D5672CAEF01387AA" ResponseType="Multiple-choice">
  <ItemLabel>5</ItemLabel>
  <ItemName>Geometry Diagnostic</ItemName>
  <LearningStandardItems>
    <LearningStandardItemRefId=DE072A87EFD48778AF9FAF83C94839E</LearningStandardItemRefId>
  </LearningStandardItems>
</AssessmentItem>
    
```

Example 3.2.4.1: AssessmentItem - Example 1

```

JSON XML
<AssessmentItem RefId="C294F3E190F019AD8E1DFC93675376C" AssessmentFormRefId="9372C8EA910FF87D5672CAEF01387AA" ResponseType="Multiple-choice">
  <ItemLabel>5</ItemLabel>
  <ItemName>Geometry Diagnostic</ItemName>
  <LearningStandardItems>
    <LearningStandardItemRefId=DE072A87EFD48778AF9FAF83C94839E</LearningStandardItemRefId>
  </LearningStandardItems>
</AssessmentItem>
    
```

Example 3.2.4.2: AssessmentItem - Example 2

3.2.5 AssessmentPackage

SIF_Events are not reported for this object.

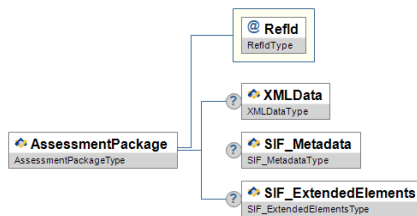


Figure 3.2.5-1: AssessmentPackage

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AssessmentPackage				A wrapper for any external standard that can define or transmit the content of an assessment.	
@ RefId	M			The GUID that uniquely identifies an object instance in a zone.	RefIdType
XMLData	C			Contains an arbitrary XML element, encoded in UTF-8.	XMLDataType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.5-1: AssessmentPackage

3.2.6 AssessmentRegistration

This object represents the assignment of a specific assessment to be taken by a student.

SIF_Events are reported for this object.

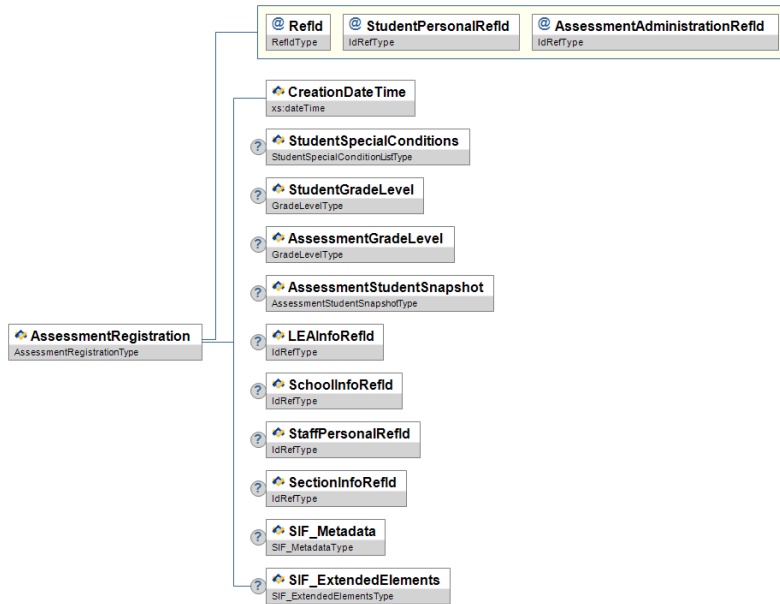


Figure 3.2.6-1: AssessmentRegistration

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AssessmentRegistration				This object represents the assignment of a specific assessment to be taken by a student.	
@ RefId	M		000365 https://ceds.ed.gov/element/000365	The GUID that uniquely identifies an instance of the object.	RefIdType
@ StudentPersonalRefId	M			The student associated with the registration.	IdRefType
@ AssessmentAdministrationRefId	M			The assessment administration associated with the registration.	IdRefType
CreationDateTime	M			Date/time assignment is made.	xs:dateTime
StudentSpecialConditions	O			Records student-specific special conditions during the test.	StudentSpecialConditionListType
StudentGradeLevel	O			Grade level of the student at the time of testing.	GradeLevelType
AssessmentGradeLevel	O			The grade or level at which the student is to be tested. This element should be omitted unless the student is being tested out-of-level.	GradeLevelType
AssessmentStudentSnapshot	O			The status of the student at the time of testing. The source of this information is meant to be the assessment system and not the student information system.	AssessmentStudentSnapshotType
LEAInfoRefId	O			Optional reference to a district associated with the registration.	IdRefType
SchoolInfoRefId	O			Optional reference to a school associated with the registration.	IdRefType
StaffPersonalRefId	O			Optional reference to a staff person associated with the registration.	IdRefType
SectionInfoRefId	O			Optional reference to a section (or class) associated with the registration.	IdRefType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.6-1: AssessmentRegistration

```

JSON
XML
<AssessmentRegistration RefId="84243827166AAA6889B57A07E370709" StudentPersonalRefId="0D015P74DBA45F092E9A8F43F2079C3" AssessmentAdministrationRefId="6808D2"
  <CreationDateTime>2006-03-05T09:30:00-05:00</CreationDateTime>
  <StudentSpecialConditions>
    <StudentSpecialCondition Code="45C">Student became ill during test.</StudentSpecialCondition>
  </StudentSpecialConditions>
  <StudentGradeLevel>

```

Example 3.2.6-1: AssessmentRegistration

3.2.7 AssessmentSubTest

A psychological construct measured by the assessment. Operationally, a subtest is a class of scores on an assessment. Some assessments may have only one subtest or type of score but most assessments measure more than one psychological construct. The subtest can be based upon items in a section or items that are empirically related. Subtests can also be composites of other subtests that are combined using a particular algorithm. Examples of subtests of an assessment are math total, reading composite, total test, and English composition.

SIF_Events are not reported for this object.

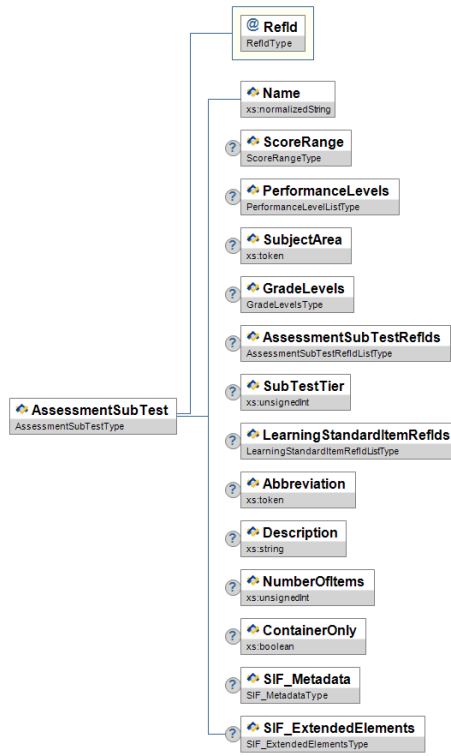


Figure 3.2.7.1: AssessmentSubTest

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AssessmentSubTest				A psychological construct measured by the assessment. Operationally, a subtest is a class of scores on an assessment. Some assessments may have only one subtest or type of score but most assessments measure more than one psychological construct. The subtest can be based upon items in a section or items that are empirically related. Subtests can also be composites of other subtests that are combined using a particular algorithm. Examples of subtests of an assessment are math total, reading composite, total test, and English composition.	
@ RefId	M		000367 https://ced.s.ed.gov/element/000367	The GUID that uniquely identifies an instance of the object.	RefIdType
Name	M		000275 https://ced.s.ed.gov/element/000275	Text name of the subtest.	xs:normalizedString
ScoreRange	O			The possible range of scores.	ScoreRangeType
PerformanceLevels	O			Container for performance level elements.	PerformanceLevelListType
SubjectArea	O			Content area covered by the score.	xs:token
GradeLevels	O			Grade levels for which the score is valid.	GradeLevelType
AssessmentSubTestRefIds	O			References (possibly recursive) to other SIF AssessmentSubTests. This enables subtests or scores to be composites of other scores. If any references are given here, the score is a composite score. The list must be unique.	AssessmentSubTestRefIdListType
SubTestTier	O			An integer that defines the level or tier of the score in a multi-level arrangement of composite scores. Zero indicates the highest or root level.	xs:unsignedInt
LearningStandardItemRefIds	O			References to LearningStandardItems. The list must be unique.	LearningStandardItemRefIdListType
Abbreviation	O			This is the short version of the name of the assessment that is often used for quick reference and used in reports.	xs:token
Description	O		000274 https://ced.s.ed.gov/element/000274	The description element provides an opportunity to pass additional information about the assessment and also be used for describing elements in a test hierarchy.	xs:string
NumberOfItems	O		000399 https://ced.s.ed.gov/element/000399	This element records the number of items included on the assessment. This number may be different than the possible score.	xs:unsignedInt
ContainerOnly	O		000026 https://ced.s.ed.gov/element/000026	Indicator describing the purpose of an AssessmentSubTest as being that of a container for the child AssessmentSubTests. There will be no scores within this subtest.	xs:boolean
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.7.1: AssessmentSubTest

```

JSON
XML
<AssessmentSubTest RefId="902298702094E28852DF08006AF2">
  <Name>Reading Comprehension Subtest</Name>
  <ScoreRange ScoreMetric="499">
    <MinItem>0</MinItem>
    <MaxItem>119</MaxItem>
  </ScoreRange>
</AssessmentSubTest>
    
```

Example 3.2.7.1: AssessmentSubTest

3.2.8 ItemCharacteristics

This object provides specific information about each assessment item. This information includes an analysis, psychometric measures, reliability and validity information. This item-level information assists in interpreting assessment scores as well as aide in improving teaching and learning.

SIF_Events are not reported for this object.

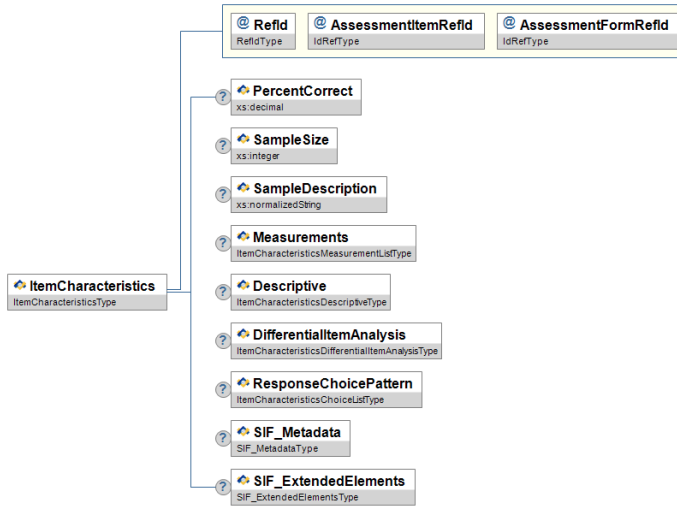


Figure 3.2.8-1: ItemCharacteristics

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
ItemCharacteristics				This object provides specific information about each assessment item. This information includes an analysis, psychometric measures, reliability and validity information. This item-level information assists in interpreting assessment scores as well as aide in improving teaching and learning.	
@ RefId	M				RefIdType
@ AssessmentItemRefId	M			This RefId points to the assessment item of which the characteristics are a part.	IdRefType
@ AssessmentFormRefId	M			This RefId points to the assessment form of which the item is a part.	IdRefType
PercentCorrect	O		000608 https://ceds.ed.gov/element/000608	Number of correct answers in sample.	xs:decimal
SampleSize	O			Number of total Item exposures.	xs:integer
SampleDescription	O			The description of the Sample the statistics are based on. May be District name, State or National sample.	xs:normalizedString
Measurements	O			A repeating group of psychometric measures.	ItemCharacteristicsMeasurementListType
Descriptive	O			[This element is deprecated as of release 2.5. It is replaced by the Measurements element.]	ItemCharacteristicsDescriptiveType
DifferentialItemAnalysis	O			[This element is deprecated as of release 2.5. It is replaced by the Measurements element.]	ItemCharacteristicsDifferentialItemAnalysisType
ResponseChoicePattern	O			The distribution of responses to each choice. This element only applies to multiple choice items.	ItemCharacteristicsChoiceListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.8-1: ItemCharacteristics

```

JSON XML
<ItemCharacteristics RefId="6480C6CFB314A328E520A102229C8C8" AssessmentItemRefId="A328E520A102229C8C86480C6CFB314" AssessmentFormRefId="229C8C864A328E520A102229C8C8" PercentCorrect="86.4" PercentCorrect="86.4" SampleSize="1777" SampleSize="1777" SampleDescription="SampleDescription" SampleDescription="District tests only" SampleDescription="District tests only" Measurements="Measurements" MeasurementCode="MS9"/>
    
```

Example 3.2.8-1: ItemCharacteristics

3.2.9 StudentResponseSet

This object transmits the student's responses to stimuli presented in an assessment. These are the raw, unscored responses.

SIF_Events are reported for this object.

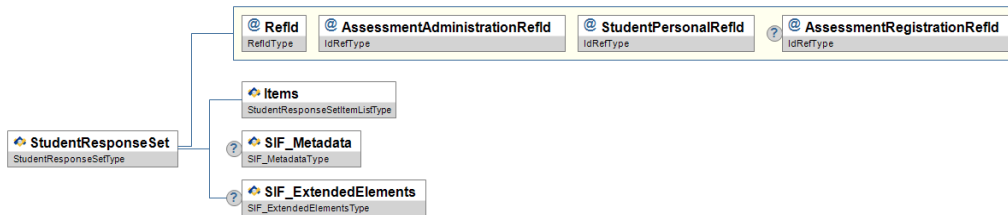


Figure 3.2.9-1: StudentResponseSet

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentResponseSet				This object transmits the student's responses to stimuli presented in an assessment. These are the raw, unscored responses.	
@ RefId	M			The GUID that uniquely identifies an instance of the object.	RefIdType
@ AssessmentAdministrationRefId	M			The administration associated with the response set.	IdRefType
@ StudentPersonalRefId	M			The student associated with the response set.	IdRefType
@ AssessmentRegistrationRefId	O			The registration associated with the response set.	IdRefType
Items	M			Container for item elements.	StudentResponseSetItemListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.9.1: StudentResponseSet

```

JSON XML
<?xml version="1.0" encoding="UTF-8" ?>
<StudentResponseSet RefId="A32F550C14004172A7CDB88F851870D0" AssessmentAdministrationRefId="BB181B05598C4602880533483D91392B" StudentPersonalRefId="8F0934CC2F"
  <Items>
    <Response>
      <ResponseLocation>http://assessments-r-us.com/29834928374/2394/response.html/</ResponseLocation>
      <ResponseStatus>Incomplete</ResponseStatus>
    </Response>
  </Items>
</StudentResponseSet>
    
```

Example 3.2.9.1: StudentResponseSet - Example 1

```

JSON XML
<?xml version="1.0" encoding="UTF-8" ?>
<StudentResponseSet RefId="A32F550C14004172A7CDB88F851870D0" AssessmentAdministrationRefId="BB181B05598C4602880533483D91392B" StudentPersonalRefId="8F0934CC2F"
  <Items>
    <Response>
      <ResponseLocation>http://assessments-r-us.com/29834928374/2394/response.html/</ResponseLocation>
      <ResponseStatus>Incomplete</ResponseStatus>
    </Response>
  </Items>
</StudentResponseSet>
    
```

Example 3.2.9.2: StudentResponseSet - Example 2

3.2.10 StudentScoreSet

The scored results from an assessment.

SIF_Events are reported for this object.

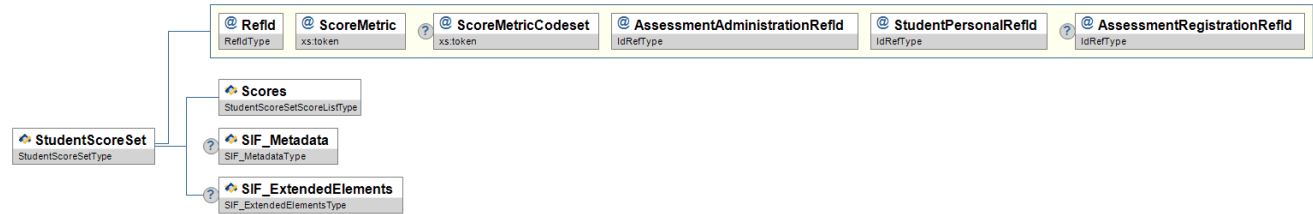


Figure 3.2.10.1: StudentScoreSet

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentScoreSet				The scored results from an assessment.	
@ RefId	M			The GUID that uniquely identifies an instance of the object.	RefIdType
@ ScoreMetric	M		000417 https://ceds.ed.gov/element/000417	The metric or scale used to report the score.	xs:token
@ ScoreMetricCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
@ AssessmentAdministrationRefId	M			The administration associated with this score set.	IdRefType
@ StudentPersonalRefId	M			The student associated with this score set.	IdRefType
@ AssessmentRegistrationRefId	O			The registration associated with this score set.	IdRefType
Scores	M			Container for score elements.	StudentScoreSetScoreListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.2.10.1: StudentScoreSet

```

JSON XML
<?xml version="1.0" encoding="UTF-8" ?>
<StudentScoreSet RefId="581028328294590CB8762F819638784" ScoreMetric="0511" AssessmentAdministrationRefId="1F971F3D414E41469325663829086C1" StudentPersonalRefId="
  <Scores>
    <Score AssessmentChildRefId="E5E8AB63A0404784900224A329568074">
      <ScoreValue>25</ScoreValue>
      <DiagnosticStatement>Shows ability to identify symmetry.</DiagnosticStatement>
    </Score>
  </Scores>
</StudentScoreSet>
    
```

Example 3.2.10.1: StudentScoreSet

3.3 Data Model Task Force

3.3.1 SEAINfo

This object is designed to facilitate the transfer of State Education Agency (SEA) directory information to the Department of Education (USED) through the Education Data Exchange Network (EDEN).

SIF_Events are not reported for this object.

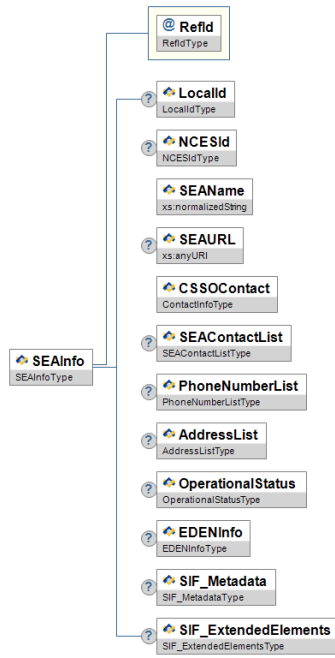


Figure 3.3.1-1: SEInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
SEInfo				This object is designed to facilitate the transfer of State Education Agency (SEA) directory information to the Department of Education (USED) through the Education Data Exchange Network (EDEN).	
RefId	M			The GUID of the SEA whose information this is.	RefIdType
LocalId	O			The locally-assigned identifier for this SEA.	LocalIdType
NCESId	O			The NCES-assigned identifier for this SEA.	NCESIdType
SEAName	M		002191 https://ceds.ed.gov/element/002191	The full legally accepted name of the SEA.	xs:normalizedString
SEAURL	O			URL for the SEA.	xs:anyURI
CSSOContact	M			Chief State School Officer contact information.	ContactInfoType
SEAContactList	O			Information on contact persons for this SEA.	SEAContactListType
PhoneNumberList	O			The SEA's phone number(s).	PhoneNumberListType
AddressList	O			The SEA's address(es).	AddressListType
OperationalStatus	O			This element is deprecated as of SIF Data Model Implementation Specification v2.5. This element applies to LEAs but not to SEAs.	OperationalStatusType
EDENInfo	O			Container element for EDEN-specific information.	EDENInfoType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.3.1-1: SEInfo

```

JSON XML
<SEInfo RefId="03E348359075101ABC3D00A001A1652">
  <SEName>Illinois State Board of Education</SEName>
  <SEAURL>http://www.lbe.net</SEAURL>
  <CSOContact>
    <Name Type="org">
      <FirstName>Giselle</FirstName>
      <LastName>Giselle</LastName>
    </Name>
  </CSOContact>
  <SEAContactList>
    <ContactInfo Type="org">
      <Name Type="org">
        <FirstName>Giselle</FirstName>
        <LastName>Giselle</LastName>
      </Name>
      <PhoneType>org</PhoneType>
      <AddressType>org</AddressType>
      <OperationalStatusType>org</OperationalStatusType>
    </ContactInfo>
  </SEAContactList>
  <PhoneNumberList Type="org">
    <PhoneType>org</PhoneType>
  </PhoneNumberList>
  <AddressList Type="org">
    <AddressType>org</AddressType>
  </AddressList>
  <OperationalStatus Type="org">
    <OperationalStatusType>org</OperationalStatusType>
  </OperationalStatus>
  <EDENInfo Type="org">
    <EDENInfoType>org</EDENInfoType>
  </EDENInfo>
  <SIF_Metadata Type="org">
    <SIF_MetadataType>org</SIF_MetadataType>
  </SIF_Metadata>
  <SIF_ExtendedElements Type="org">
    <SIF_ExtendedElementsType>org</SIF_ExtendedElementsType>
  </SIF_ExtendedElements>
</SEInfo>
    
```

Example 3.3.1-1: SEInfo

3.3.2 StudentLEARelationship

The purpose of the StudentLEARelationship object is to represent the current information available regarding a single student's relationship/affiliation to a single LEA for a specific school year as of the time a SIF_Event or SIF_Response is generated by the system of record. This object is not designed to operate on a historical/longitudinal basis in the default context.

StudentLEARelationship instances must not span multiple school years.

Only one instance of the StudentLEARelationship object with MembershipType=Home may exist for a specific time interval between EntryDate and ExitDate (inclusive) for a given student, LEA, and school year.

Multiple instances of the StudentLEARelationship object with MembershipType=Concurrent may exist for a specific time interval between EntryDate and ExitDate (inclusive) for a given student, LEA, and school year.

Multiple instances of StudentLEARelationship will occur for specific or overlapping time intervals if a student has affiliations with multiple LEA's. This will most likely be detected during aggregate data collection from multiple LEA's. Since StudentLEARelationship/@RefId and StudentLEARelationship/@StudentPersonalRefId are zone-specific, external mechanisms (e.g. student locator) would be required to correlate multiple instances of a single student affiliating with multiple LEA's.

SIF_Events are reported for this object.

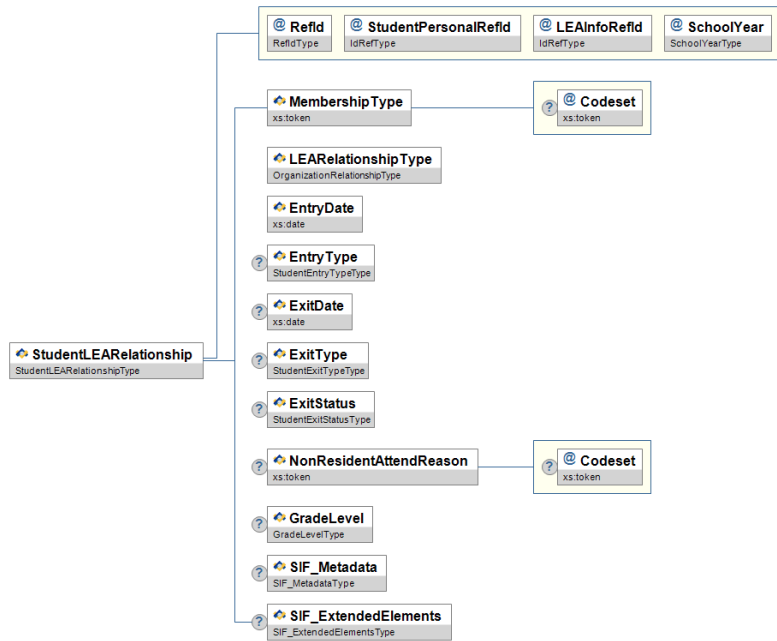


Figure 3.3.2.1: StudentLEARelationship

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentLEARelationship				The purpose of the StudentLEARelationship object is to represent the current information available regarding a single student's relationship/affiliation to a single LEA for a specific school year as of the time a SIP_Event or SIP_Response is generated by the system of record. This object is not designed to operate on a historical/longitudinal basis in the default context. StudentLEARelationship instances must not span multiple school years. Only one instance of the StudentLEARelationship object with MembershipType=Home may exist for a specific time interval between EntryDate and ExitDate (inclusive) for a given student, LEA, and school year. Multiple instances of the StudentLEARelationship object with MembershipType=Concurrent may exist for a specific time interval between EntryDate and ExitDate (inclusive) for a given student, LEA, and school year. Multiple instances of StudentLEARelationship will occur for specific or overlapping time intervals if a student has affiliations with multiple LEA's. This will most likely be detected during aggregate data collection from multiple LEA's. Since StudentLEARelationship/RefId and StudentLEARelationship/StudentPersonalRefId are zone-specific, external mechanisms (e.g. student locator) would be required to correlate multiple instances of a single student affiliating with multiple LEA's.	
@ RefId	M			The unique identifier for a particular affiliation between a student and a LEA.	xs:IdType
@ StudentPersonalRefId	M			The SIF RefId of the StudentPersonal object to which this instance of StudentLEARelationship refers.	IdRefType
@ LEAInfoRefId	M			The SIF RefId of the LEAInfo object to which this instance of StudentLEARelationship refers.	IdRefType
@ SchoolYear	M			Contains the SIF school year to which this instance of StudentLEARelationship applies. StudentLEARelationship must not span multiple school years.	SchoolYearType
MembershipType	M			The type of this affiliation as it relates to the LEA identified in LEAInfoRefId.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
LEARelationshipType	M			An instance of the OrganizationRelationshipType common element that describes the details of the student's affiliation with the LEA.	OrganizationRelationshipType
EntryDate	M			The date from when this affiliation is valid.	xs:date
EntryType	O				StudentEntryTypeType
ExitDate	C			The last school calendar day (membership day) the student was affiliated with the LEA (inclusive). The conditional characteristic of this element is defined such that if the student has exited the LEA, then ExitDate must have a value.	xs:date
ExitType	O				StudentExitTypeType
ExitStatus	O				StudentExitStatusType
NonResidentAttendReason	C			Indicates the reason that the student has an affiliation with this LEA if the student is a not a resident of the LEA. The conditional characteristic of this element is defined such that if the LEA participating in this affiliation is outside of the student's usual attendance area, as indicated in the LEARelationshipType/ResidencyStatus element, then this element must be reported.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
GradeLevel	O			The grade or academic level of the student.	GradeLevelType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.3.2.1: StudentLEARelationship

```

JSON
XML

<StudentLEARelationship RefId="98C3D324835AA75101D00AA20181652" StudentPersonalRefId="03E348359075101A8C3D00AA001A1652" LEAInfoRefId="03E348359075101A223D0000"
  <MembershipType=Home/
  <LEARelationshipType
  <ResidencyStatus>
  <@Codeset="1035"/>
  </ResidencyStatus>
  </StudentLEARelationship>
  
```

3.4 Data Warehouse Working Group

The mission of the Data Warehouse Working Group is to lead the definition of the detailed data that schools and parents need to improve student achievement and organizational effectiveness. It will represent to the other SIF Association working groups the interests of the school administrators, guidance counselors, teachers, parents and students who can benefit from the analysis of integrated SIF K-12 data.

3.4.1 AggregateStatisticInfo

This object defines the data that is being aggregated as well as the type of measurement that is being performed.

SIF_Events are reported for this object.

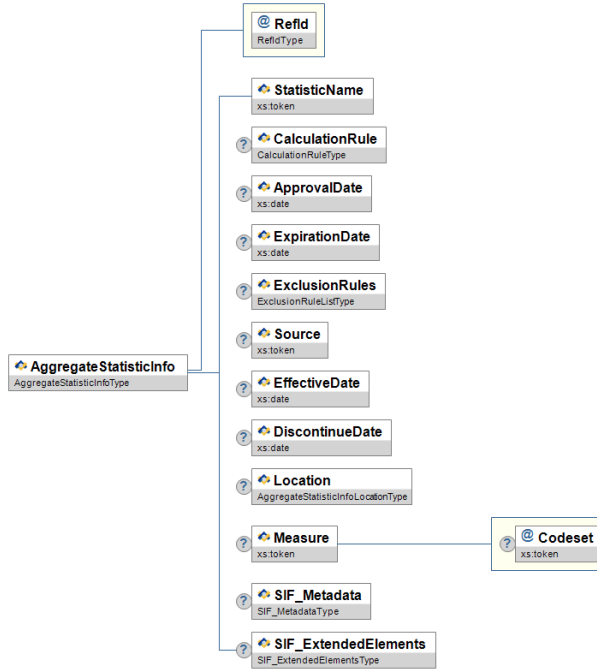


Figure 3.4.1-1: AggregateStatisticInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AggregateStatisticInfo				This object defines the data that is being aggregated as well as the type of measurement that is being performed.	
@ RefId	M			Key	RefIdType
StatisticName	M			Name of Aggregate Statistic Examples Total Enrollment Diploma Recipients	xs:token
CalculationRule	O			Rule for calculating the aggregate statistic	CalculationRuleType
ApprovalDate	O			Date for which the statistic is initially valid	xs:date
ExpirationDate	O			Date after which the statistic is no longer valid	xs:date
ExclusionRules	O			Rules for which statistic may not be reported.	ExclusionRuleListType
Source	O			System providing the data: i.e., SIS, Transportation.	xs:token
EffectiveDate	O			Effective date of the statistic	xs:date
DiscontinueDate	O			Discontinue date of the statistic	xs:date
Location	O				AggregateStatisticInfoLocationType
Measure	O			Type of the statistic.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.4.1-1: AggregateStatisticInfo

```

JSON XML
<AggregateStatisticInfo RefId="ASIECB0316184F509F46E8A64C878002">
  <StatisticName>Read Proficiency L1</StatisticName>
  <CalculationRule Type="Description">Number of students scoring at Reading Proficiency Level 1</CalculationRule>
  <ApprovalDate>2006-06-30</ApprovalDate>
  <ExpirationDate>2006-06-30</ExpirationDate>
  <ExclusionRules>

```

Example 3.4.1-1: AggregateStatisticInfo

3.4.2 AggregateCharacteristicInfo

This object defines the attribute of a group of objects that implicitly or explicitly defines a subset of the group.

SIF_Events are reported for this object.

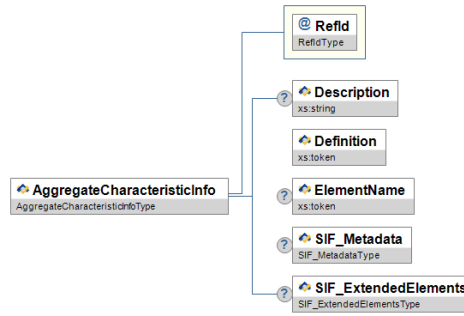


Figure 3.4.2-1: AggregateCharacteristicInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AggregateCharacteristicInfo				This object defines the attribute of a group of objects that implicitly or explicitly defines a subset of the group.	
@ RefId	M			Key for aggregate characteristic information.	RefIdType
Description	O			Describes the supercategory of the characteristic described in the Definition element below. Examples Gender Ethnicity Grade Economic Status IEP Status IEP Status Migrant Status	xs:string
Definition	M			Defines the aggregate characteristic information. Examples White Male Dropout	xs:token
ElementName	O			Reference to SIF elements or external authority (e.g., StudentPersonal/Gender). Examples Dropout Status	xs:token
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.4.2-1: AggregateCharacteristicInfo

```

JSON XML
<AggregateCharacteristicInfo RefId="06AF1D69F8064AB38983505714F18FB">
  <Description>Ethnicity</Description>
  <Definition>Kapaleev</Definition>
  <ElementName>StudentPersonal/Demographics/Ethnicity</ElementName>
</AggregateCharacteristicInfo>
    
```

Example 3.4.2-1: AggregateCharacteristicInfo

3.4.3 AggregateStatisticFact

This object is the actual value of the measurement. It is always associated with one statistic and one or more characteristics.

SIF_Events are reported for this object.

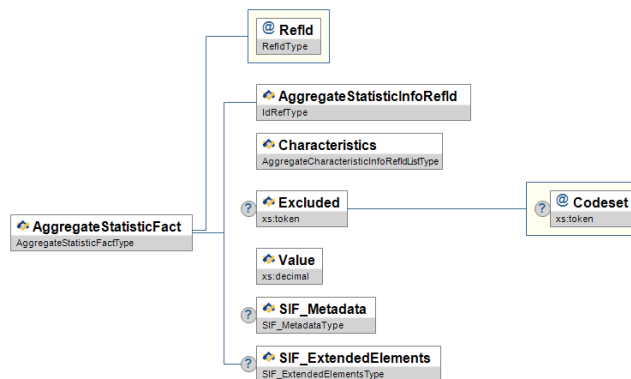


Figure 3.4.3-1: AggregateStatisticFact

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AggregateStatisticFact				This object is the actual value of the measurement. It is always associated with one statistic and one or more characteristics.	
@ RefId	M				RefIdType
AggregateStatisticInfoRefId	M			Reference to statistic defined by <code>AggregateStatisticInfo</code> .	IdRefType
Characteristics	M			Reference to one or more <code>AggregateCharacteristicInfo</code> objects.	AggregateCharacteristicInfoRefIdListType
Excluded	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Value	M			Value of the fact.	xs:decimal
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.4.3-1: AggregateStatisticFact

```

JSON XML
<AggregateStatisticFact RefId="3A4E2822C8964338812849D8E57E41">
  <AggregateStatisticInfoRefId="93A82209F7484949D0C8021CE8102CF"/AggregateStatisticInfoRefId>
  <CharacteristicId>
  <AggregateCharacteristicInfoRefId="08972D8644E84D794F5FF1C131172D8"/AggregateCharacteristicInfoRefId>
  </CharacteristicId>
  <Excluded="0"/Excluded>

```

Example 3.4.3-1: AggregateStatisticFact

3.5 Facilities and Energy Management

The Facility and Energy Management Project Team is responsible for the planning and designing of data objects for energy usage

3.5.1 EnergyUsage

The Facility and Energy Management objects are used to report energy usage and associated environmental information; and to convey the results of the analysis of that information in standardized reports. The Energy Usage Object provides multiple information sources with the opportunity to publish time-based events containing Energy Usage data for a school building or facility. This information includes:

- Thermostat settings and outside temperature measurements from the Building Automation System
- Dynamic energy demand costs from smart meters or data from typed-in utility bill monthly spreadsheets
- Energy Usage information from shadow meters (which intercept BAS readings) from an Energy Management System

The primary goal of this object is to allow maximum flexibility in the ways in which a SIF Zone may be utilized to gather energy management data published by multiple sources, while leaving it to the Energy Analysis program (the subscriber) to take the varied data events issued in conformance with this SIF standard, and correlate them into a unified format which it can use. In general this will involve storing the information in the equivalent of an Energy Management longitudinal data system (LDS).

Please see Appendix E: Energy Management Notes for more detail about this object.

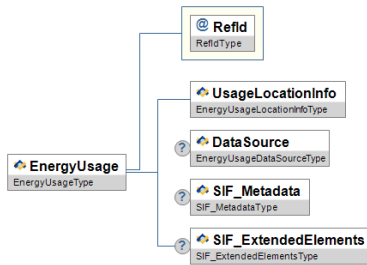


Figure 3.5.1-1: EnergyUsage

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EnergyUsage				This object contains energy usage information for an energy location.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
UsageLocationInfo	M			Complex element containing the location of where measurements apply to.	EnergyUsageLocationInfoType
DataSource	O			The description of the source of the measurements.	EnergyUsageDataSourceType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.5.1-1: EnergyUsage

```

JSON XML
<EnergyUsage RefId="339075101A06A9D7ABC2DA0A85103A2">
  <UsageLocationInfo>
    <SchoolID="urn:sif:school1AcmeMiddieSchool1.CoyoteDistrict.Arizona"/SchoolID>
    <BuildingID="14"/BuildingID>
    <EnergyUsage>
    </EnergyUsage>
  </UsageLocationInfo>

```

Example 3.5.1-1: EnergyUsage

3.6 Food Services Working Group

The Food Services Working Group specifies, implements, and promotes a standard set of messages and automated communication mechanisms that allow computer applications for the food service sector of the education industry to effectively exchange information with all SIF applications.

3.6.1 FoodserviceItem

This object communicates information about food service items.

SIF_Events are reported for this object.

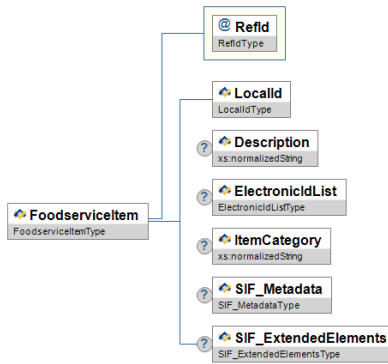


Figure 3.6.1-1: FoodserviceItem

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceItem					
@ Refid	M			GUID that identifies this item	RefidType
LocalId	M			Item number as presented to user.	LocalIdType
Description	O			Description of Item	xs:normalizedString
ElectronicIdList	O			Electronic identifier(s) associated with this item.	ElectronicIdListType
ItemCategory	O			The category is derived from the Child Nutrition Database's food category codes/names (Source: Food Category Name File [CNDB]). Agents may use the actual codes or a district's local definition of the names associated with the codes. The Child Nutrition Database [CNDB] is updated on a yearly basis by the USDA. Examples Meat Vegetables Other	xs:normalizedString
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.1-1: FoodserviceItem

```

JSON XML
<FoodserviceItem RefId="F9521958A8474559B2AE7B082647C668">
  <LocalId>23914/LocalId</LocalId>
  <Description>Meat Burrito</Description>
  <ElectronicIdList>
    <ElectronicId Type="Barcode">123456</ElectronicId>
  </ElectronicIdList>
</FoodserviceItem>
    
```

Example 3.6.1-1: FoodserviceItem

3.6.2 FoodserviceItemPortion

This object describes a certain amount for a specific item unit.

Note that this version of the object does not contain any elements that define item pricing. This task is left for future development.

SIF_Events are reported for this object.

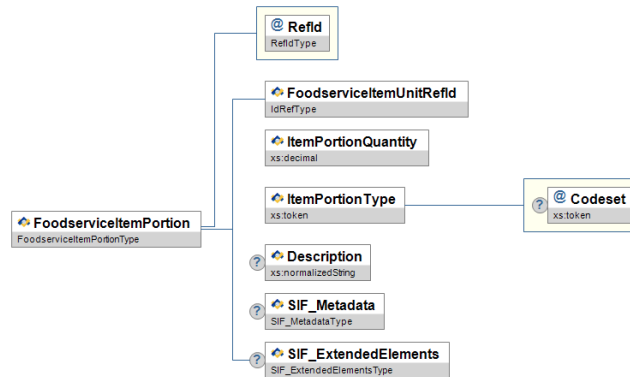


Figure 3.6.2-1: FoodserviceItemPortion

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceItemPortion				This object describes a certain amount for a specific item unit. Note that this version of the object does not contain any elements that define item pricing. This task is left for future development.	
@ RefId	M			GUID that identifies this item's portion	RefIdType
FoodserviceItemUnitRefId	M			GUID that identifies related item portion	IdRefType
ItemPortionQuantity	M			Quantity of item portion (number of units)	xs:decimal
ItemPortionType	M			Type of item unit	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Description	O			Optional description of amount	xs:normalizedString
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.2.1: FoodserviceItemPortion

```

JSON XML
<FoodserviceItemPortion RefId="F9521958AB47455982AE78082647C66B">
  <FoodserviceItemUnitRefId>9837A71610026777872361100118873C</FoodserviceItemUnitRefId>
  <ItemPortionQuantity>1</ItemPortionQuantity>
  <ItemPortionType>Entree</ItemPortionType>
  <Description>One Cup Serving of Mashed Potatoes</Description>
</FoodserviceItemPortion>
    
```

Example 3.6.2.1: FoodserviceItemPortion

3.6.3 FoodserviceItemSales

This object gives the sales details for the items sold for a specified date.

SIF_Events are reported for this object.

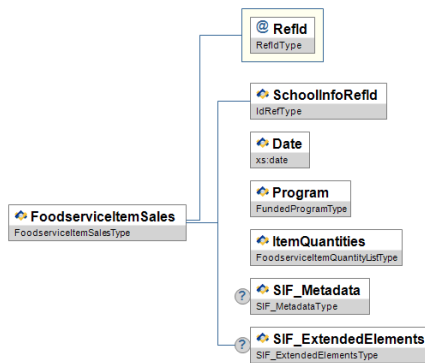


Figure 3.6.3.1: FoodserviceItemSales

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceItemSales				This object gives the sales details for the items sold for a specified date.	
@ RefId	M			GUID that identifies this object	RefIdType
SchoolInfoRefId	M			GUID that identifies the school for this object	IdRefType
Date	M			Date of sales	xs:date
Program	M				FundedProgramType
ItemQuantities	M				FoodserviceItemQuantityListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.3.1: FoodserviceItemSales

```

JSON XML
<FoodserviceItemSales RefId="F78FF23F3A1471BA0090E22A09330C">
  <SchoolInfoRefId>9872A999FC614402A0D197CC5A4A2363</SchoolInfoRefId>
  <Date>2001-09-13</Date>
  <Program Type="Foodservice">HSLS</Program>
  <ItemQuantities>
    <ItemQuantity FoodserviceItemPortionRefId="D38E80858644B7C839CF2C11B145F">
    
```

Example 3.6.3.1: FoodserviceItemSales

3.6.4 FoodserviceItemUnit

This object describes the unit for an item.

SIF_Events are reported for this object.

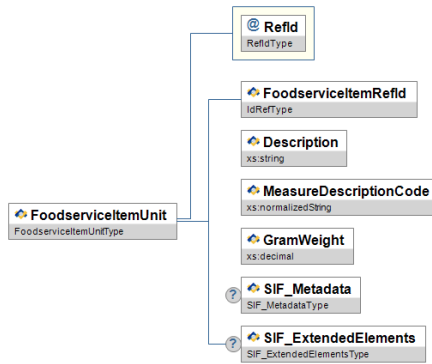


Figure 3.6.4-1: FoodserviceItemUnit

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceItemUnit				This object describes the unit for an item.	
@ RefId	M			GUID that identifies this unit	RefIdType
FoodserviceItemRefId	M			GUID that identifies related item	IdRefType
Description	M			Description of unit ("cup", "teaspoon", etc.)	xs:string
MeasureDescriptionCode	M			Child Nutrition Database [CNDB] standard code describing unit. The database is updated on a yearly basis by the USDA.	xs:normalizedString
GramWeight	M			Gram weight of this item in terms of MeasureDescriptionCode	xs:decimal
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.4-1: FoodserviceItemUnit

JSON XML

```
<FoodserviceItemUnit RefId="09837A746D0626778723610D118873C">
  <FoodserviceItemRefId RefId="8F521958A847455982A878082647C648"/>
  <Description>cup</Description>
  <MeasureDescriptionCode>CUP01</MeasureDescriptionCode>
  <GramWeight>95</GramWeight>
</FoodserviceItemUnit>
```

Example 3.6.4-1: FoodserviceItemUnit

3.6.5 FoodserviceMealPrices

This object is a site's meal prices for each grade program, meal status, meal type and grade level.

SIF_Events are reported for this object.

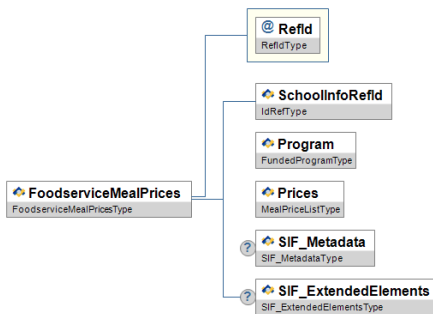


Figure 3.6.5-1: FoodserviceMealPrices

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceMealPrices				This object is a site's meal prices for each grade program, meal status, meal type and grade level.	
@ RefId	M			GUID that identifies this meal price.	RefIdType
SchoolInfoRefId	M			GUID that identifies the school this meal price belongs to	IdRefType
Program	M				FundedProgramType
Prices	M				MealPriceListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.5-1: FoodserviceMealPrices

JSON XML

```
<FoodserviceMealPrices RefId="8F521958A847455982A878082647C648">
  <SchoolInfoRefId RefId="8F521958A847455982A878082647C648"/>
  <Program Type="Foodservice">MSLP</Program>
  <Prices>
    <Price>
      <@Unit Currency="USD">99.99</Value>
    </Price>
  </Prices>
</FoodserviceMealPrices>
```

Example 3.6.5-1: FoodserviceMealPrices

3.6.6 FoodserviceMenuPlan

This object communicates the foodservice menu plan for a school site for a given meal program, grade level range and date.

SIF_Events are reported for this object.

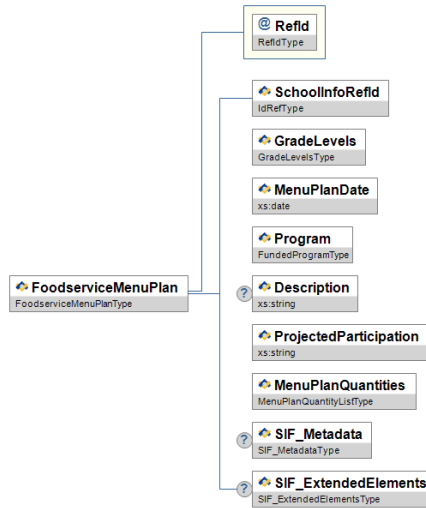


Figure 3.6.6-1: FoodserviceMenuPlan

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceMenuPlan				This object communicates the foodservice menu plan for a school site for a given meal program, grade level range and date.	
@ RefId	M			GUID that identifies this menu plan	RefIdType
SchoolInfoRefId	M			GUID that identifies the school for this menu plan	IdRefType
GradeLevels	M				GradeLevelsType
MenuPlanDate	M			Date of menu plan	xs:date
Program	M				FundedProgramType
Description	O			Description of menu plan	xs:string
ProjectedParticipation	M			Feeding figure projected	xs:string
MenuPlanQuantities	M				MenuPlanQuantityListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.6-1: FoodserviceMenuPlan

```

JSON
XML
<FoodserviceMenuPlan RefId="EF521958A8474559B2A878D82647C648">
  <SchoolInfoRefId>FF521958A8474559B2A878D82647C648</SchoolInfoRefId>
  <GradeLevels>
    <Code>SIF-Code</Code>
  </GradeLevels>

```

Example 3.6.6-1: FoodserviceMenuPlan

3.6.7 FoodserviceMilkSales

This object communicates the daily milk sales at a school.

SIF_Events are not reported for this object.

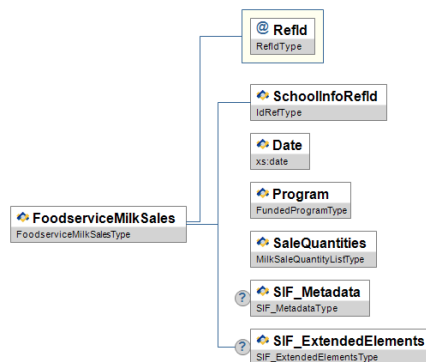


Figure 3.6.7-1: FoodserviceMilkSales

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceReimbursementRates				This object describes the federal, state, local and other reimbursement rates for a school.	
@ RefId	M			GUID that identifies this object.	RefIdType
SchoolInfoRefId	M			GUID that identifies the school.	IdRefType
StartDate	M			Effective start date for the reimbursement rates	xs:date
EndDate	M			Effective end date for the reimbursement rates	xs:date
Program	M				FundedProgramType
Agencies	M			List of reimbursing agencies.	FoodserviceReimbursementAgencyListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.9.1: FoodserviceReimbursementRates

```

JSON XML
<FoodserviceReimbursementRates RefId="D9837A774D062677872361D0118873C">
  <SchoolInfoRefId>EF521958AB47455982AE7BD82647C66B</SchoolInfoRefId>
  <StartDate>2004-11-01</StartDate>
  <EndDate>2004-12-31</EndDate>
  <Program Type="Foodservice">HSL</Program>
  <Agencies>

```

Example 3.6.9.1: FoodserviceReimbursementRates

3.6.10 FoodserviceSales

This object communicates the daily sales information.

SIF_Events are reported for this object.

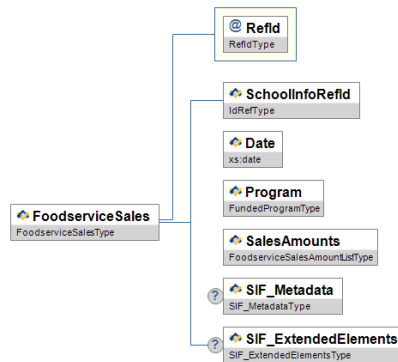


Figure 3.6.10.1: FoodserviceSales

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceSales				This object communicates the daily sales information.	
@ RefId	M			GUID that identifies the daily meal sales object	RefIdType
SchoolInfoRefId	M			School for which the sales object applies	IdRefType
Date	M			Date on which the sales occurred.	xs:date
Program	M				FundedProgramType
SalesAmounts	M				FoodserviceSalesAmountListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.10.1: FoodserviceSales

```

JSON XML
<FoodserviceSales RefId="E57A732918E1473F80C2FA7774DA6A">
  <SchoolInfoRefId>021CF2987F844965A9CF95081860821B</SchoolInfoRefId>
  <Date>2003-10-31</Date>
  <Program Type="Foodservice">HSL</Program>
  <SalesAmounts>
    <SalesAmount Type="cash" AccountType="BA" Currency="USD">9999.99</SalesAmount>

```

Example 3.6.10.1: FoodserviceSales

3.6.11 FoodserviceStaffEnrollmentCount

This object communicates the staff enrollment for a specified date.

SIF_Events are not reported for this object.

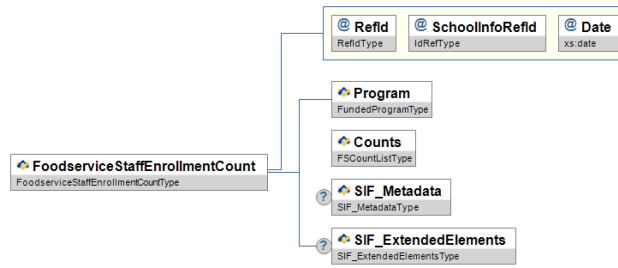


Figure 3.6.11-1: FoodserviceStaffEnrollmentCount

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceStaffEnrollmentCount				This object communicates the staff enrollment for a specified date.	
@ Refid	M			A GUID that identifies an instance of this object. This Refid is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefidType
Ⓜ SchoolInfoRefid	M			Reference to SchoolInfo	IdRefType
Ⓜ Date	M			Date the count is taken.	xs:date
Program	M				FundedProgramType
Counts	M				FSCountListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.11-1: FoodserviceStaffEnrollmentCount

```

JSON
XML
<FoodserviceStaffEnrollmentCount RefId="359075101AD0A07ABC30A00A85103A2" SchoolInfoRefid="EB228C9E7A40787E0818303B48595" Date="2001-10-31">
  <Program Type="Foodservice">BSL</Program>
  <Counts>
    <StartStatus Type="Yes" />
    <Value>99999</Value>
  </Counts>
</FoodserviceStaffEnrollmentCount>
    
```

Example 3.6.11-1: FoodserviceStaffEnrollmentCount

3.6.12 FoodserviceStaffMealCounts

This object communicates the daily staff sales.

SIF_Events are not reported for this object.

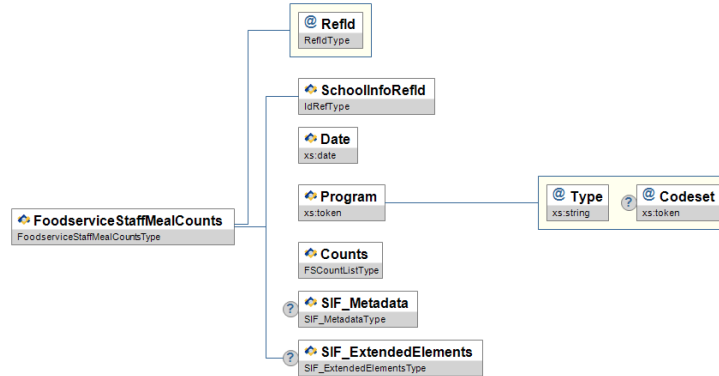


Figure 3.6.12-1: FoodserviceStaffMealCounts

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceStaffMealCounts				This object communicates the daily staff sales.	
Ⓜ Refid	M			GUID that identifies the daily meal sales object	RefidType
Ⓜ SchoolInfoRefid	M			School for which the sales object applies	IdRefType
Date	M			Date on which the sales occurred.	xs:date
Program	M				xs:token
@ Type	M			The type of the program. Type identifies the list of values.	xs:string
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Counts	M				FSCountListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.12-1: FoodserviceStaffMealCounts

```

JSON XML
<FoodserviceStaffMealCounts RefId="89228DC9E7A40F787E08183038495B5">
  <SchoolInfoRefId="F4790982128944998C3F9F06AB75954A" />
  <SchoolInfoRefId="F4790982128944998C3F9F06AB75954A" />
  <Program Type="Foodservice">MSLP />
  <Counts>
    <Count>

```

Example 3.6.12-1: FoodserviceStaffMealCounts

3.6.13 FoodserviceStudentEnrollmentCount

This object communicates the student enrollment for a specified date.

SIF_Events are not reported for this object.

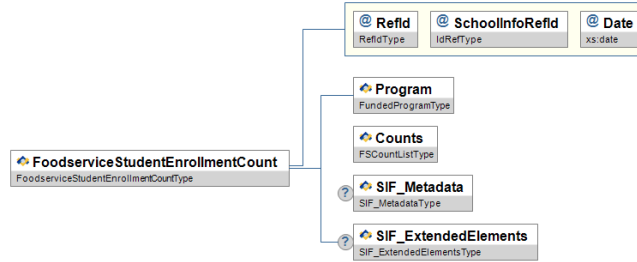


Figure 3.6.13-1: FoodserviceStudentEnrollmentCount

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceStudentEnrollmentCount				This object communicates the student enrollment for a specified date.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
@ SchoolInfoRefId	M			Reference to SchoolInfo	IdRefType
@ Date	M			Date the count is taken.	xs:date
Program	M				FundedProgramType
Counts	M				FSCountListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.13-1: FoodserviceStudentEnrollmentCount

```

JSON XML
<FoodserviceStudentEnrollmentCount RefId="259075101AD0A907ABC3DAD0A85103A2" SchoolInfoRefId="89228DC9E7A40F787E08183038495B5" Date="2003-08-25">
  <Program Type="Foodservice">MSLP />
  <Counts>
    <Count>
      <MealStatus Type="Free" />
      <Value="99999" />

```

Example 3.6.13-1: FoodserviceStudentEnrollmentCount

3.6.14 FoodserviceStudentMealCounts

This object communicates the daily student sales.

SIF_Events are not reported for this object.

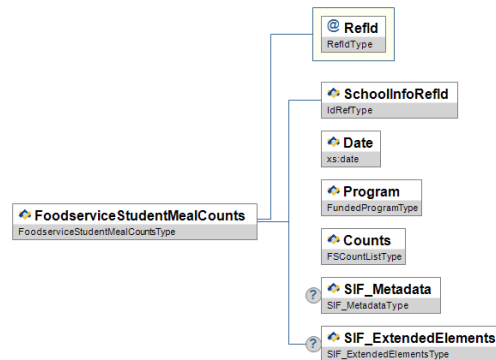


Figure 3.6.14-1: FoodserviceStudentMealCounts

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceStudentMealCounts				This object communicates the daily student sales.	
@ RefId	M			GUID that identifies the daily meal sales object	RefIdType
SchoolInfoRefId	M			School for which the sales object applies	IdRefType
Date	M			Date on which the sales occurred.	xs:date
Program	M				FundedProgramType
Counts	M				FSCountListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.14-1: FoodserviceStudentMealCounts

```

JSON
XML
<?xml version="1.0" encoding="UTF-8" ?>
<FoodserviceStudentMealCounts RefId="FB22BC0C9E7A40F78ED818203848585">
  <SchoolInfoRefId ref="2279798122844898C3F9D6A878F44c/schoolInfoRefId">
    <date>2003-08-25</date>
    <Program type="Foodservice">NSLP</Program>
    <Counts>
    </Counts>
  </FoodserviceStudentMealCounts>
  
```

Example 3.6.14-1: FoodserviceStudentMealCounts

3.6.15 FoodserviceTransaction

This object communicates food service transaction information. This is the key object that will be present for every food service transaction.

Note: With SIF Implementation Specification version 2.4 the choice element depicted in the diagram below has changed. In the XSD files, the choice element used to be rendered as a sequence of optional elements. Now, in the XSD files, the choice element is rendered as an xs:choice. This may cause problems with agents that treat the choice element as two optional elements rather than a choice of one and only one of the choices.

SIF_Events are reported for this object.

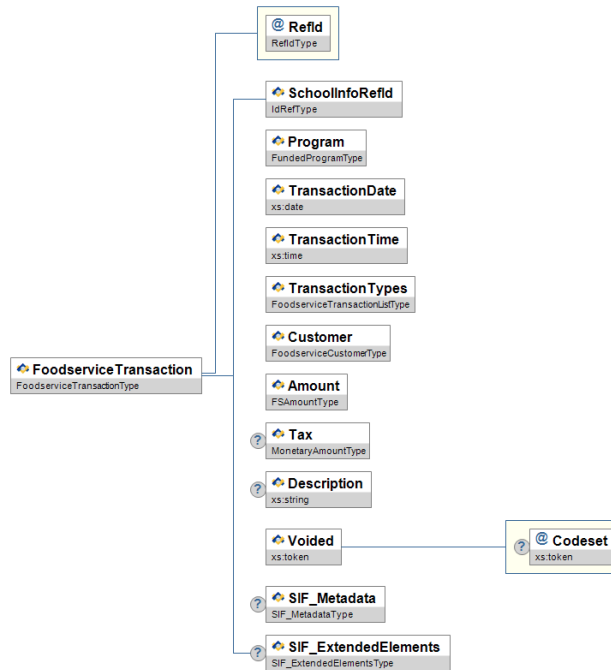


Figure 3.6.15-1: FoodserviceTransaction

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceTransaction				This object communicates food service transaction information. This is the key object that will be present for every food service transaction. Note: With SIF Implementation Specification version 2.4 the choice element depicted in the diagram below has changed. In the XSD files, the choice element used to be rendered as a sequence of optional elements. Now, in the XSD files, the choice element is rendered as an xx:choice. This may cause problems with agents that treat the choice element as two optional elements rather than a choice of one and only one of the choices.	
@ RefId	M			GUID that identifies food service transaction	RefIdType
SchoolInfoRefId	M			GUID that identifies the school/site of account transaction	IdRefType
Program	M				FundedProgramType
TransactionDate	M			Date of transaction	xs:date
TransactionTime	M			Time of transaction.	xs:time
TransactionTypes	M				FoodserviceTransactionListType
Customer	M			The customer can be a student or staff.	FoodserviceCustomerType
Amount	M				FSAmountType
Tax	O			Amount of tax. Note: Final amount is Amount/Value + Tax	MonetaryAmountType
Description	O			Description of the Transaction	xs:string
Voided	M			This flag tells us if the transaction is voided.	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.15-1: FoodserviceTransaction

```

JSON XML
<?xml version="1.0" encoding="UTF-8" standalone="yes">
<FoodserviceTransaction RefId="A9E24835F94051A8C3100AA091A1652">
  <SchoolInfoRefId EF4054E90CD45C988A87E9F8F98284/SchoolInfoRefId>
  <Program Type="Foodservice">HELPS/Program</Program>
  <TransactionDate>2020-08-25</TransactionDate>
  <TransactionTime>04:32:23-08:00</TransactionTime>
  <TransactionTypes>
  </TransactionTypes>
  </FoodserviceTransaction>
  
```

Example 3.6.15-1: FoodserviceTransaction

3.6.16 FoodserviceTransactionDetails

This object gives the transaction distribution for food service transactions of type other than Purchase. So, this object can be requested for transactions of type Prepayment, Repayment, Refund, Adjustment.

SIF_Events are reported for this object.

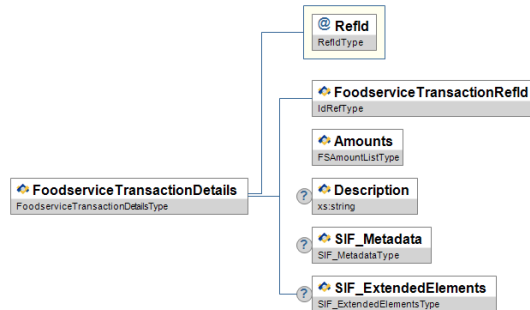


Figure 3.6.16-1: FoodserviceTransactionDetails

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceTransactionDetails				This object gives the transaction distribution for food service transactions of type other than Purchase. So, this object can be requested for transactions of type Prepayment, Repayment, Refund, Adjustment.	
@ RefId	M			GUID that identifies transaction details	RefIdType
FoodserviceTransactionRefId	M			GUID that identifies food service transaction	IdRefType
Amounts	M				FSAmountListType
Description	O			Description	xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.16-1: FoodserviceTransactionDetails

```

JSON XML
<?xml version="1.0" encoding="UTF-8" standalone="yes">
<FoodserviceTransactionDetails RefId="E50E2B611804F238D218968709584A">
  <FoodserviceTransactionRefId>88306D94848D8E8E080848C44918</FoodserviceTransactionRefId>
  <Amount>
    <Amount Type="Cash" Credits="0" Currency="USD">2.00</Amount>
    <Amount Type="BreakfastCredits" Credits="3">4.50</Amount>
  </Amount>
  </FoodserviceTransactionDetails>
  
```

Example 3.6.16-1: FoodserviceTransactionDetails

3.6.17 FoodserviceTransactionPayMethod

This object communicates the funding for a given transaction. By the term funding we refer to the form of payment that is made for the transaction. SIF_Events are reported for this object.

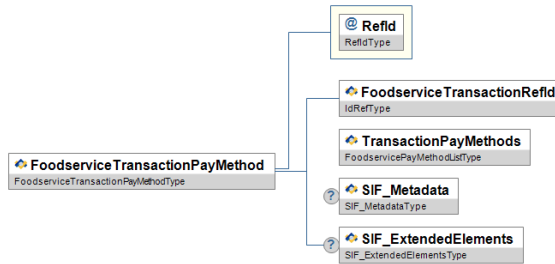


Figure 3.6.17-1: FoodserviceTransactionPayMethod

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FoodserviceTransactionPayMethod				This object communicates the funding for a given transaction. By the term funding we refer to the form of payment that is made for the transaction.	
@ RefId	M			GUID that identifies the payment	RefIdType
FoodserviceTransactionRefId	M			GUID that identifies food service transaction	IdRefType
TransactionPayMethods	M				FoodservicePayMethodListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.17-1: FoodserviceTransactionPayMethod

```

JSON XML
<FoodserviceTransactionPayMethod RefId="FF8340A51D844E80B1560E6428F373CE">
  <FoodserviceTransactionRefId A1D2C4527A84D0808AD6C382F8F902F</FoodserviceTransactionRefId
  <TransactionPayMethods
    <TransactionPayMethod Type="Payment">
      <Amount>
        <Amount Type="Cash" Credits="0">2.50</Amount>
      </Amount>
    </TransactionPayMethod>
  </TransactionPayMethods>
</FoodserviceTransactionPayMethod>
    
```

Example 3.6.17-1: FoodserviceTransactionPayMethod

3.6.18 StaffMeal

This object communicates the current meal status and account status of a given staff member. This object indicates whether the staff member is entitled to earn meals. SIF_Events, typically Change events, can be reported.

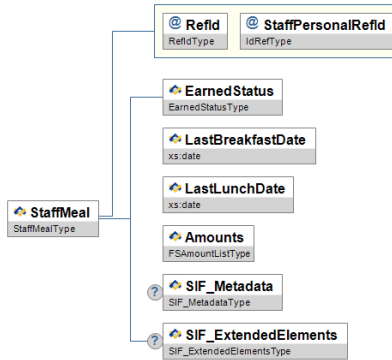


Figure 3.6.18-1: StaffMeal

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StaffMeal				This object communicates the current meal status and account status of a given staff member. This object indicates whether the staff member is entitled to earn meals.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
@ StaffPersonalRefId	M			The GUID of the staff to whom this object is linked.	IdRefType
EarnedStatus	M				EarnedStatusType
LastBreakfastDate	M			Last breakfast served date	xs:date
LastLunchDate	M			Last lunch served date	xs:date
Amounts	M				FSAmountListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.18-1: StaffMeal

```

JSON XML
<StaffMeal RefId="359D75101AD0A9D78C3DAD0A85103A2" StaffPersonalRefId="A9B34B359F44051ABC3000AA001A1652">
  <EarnedStatus Type="106">
    <Start Date>2003-08-25</Start Date>
    <End Date>2003-08-25</End Date>
  </EarnedStatus>
  <LastBreakfastDate>2003-08-25</LastBreakfastDate>
</StaffMeal>
    
```

Example 3.6.18-1: StaffMeal

3.6.19 StudentMeal

This object communicates the current meal/account status of a given student.

This object will return information such as the amount of remaining breakfast/lunch credits, cash balance, meal status (free/reduced), etc. Systems may optionally support the historical reporting of a student's meal status (free/reduced).

SIF_Events, typically Change events, can be reported.

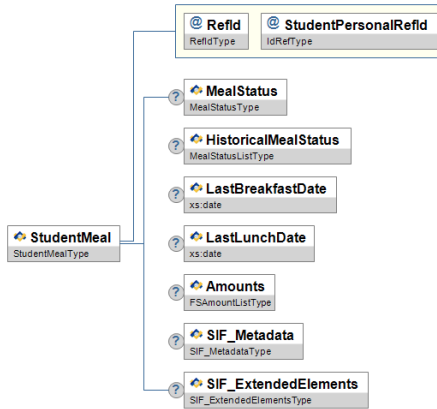


Figure 3.6.19-1: StudentMeal

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentMeal				This object communicates the current meal/account status of a given student. This object will return information such as the amount of remaining breakfast/lunch credits, cash balance, meal status (free/reduced), etc. Systems may optionally support the historical reporting of a student's meal status (free/reduced).	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
@ StudentPersonalRefId	M			The GUID of the student to whom this object is linked.	IdRefType
MealStatus	O			The student's current meal status.	MealStatusType
HistoricalMealStatus	O			Optionally provides the meal status of the student historically. Note that as this status is historical, startDate and endDate together, and/or schoolYear MUST be included. If schoolYear is included, startDate and endDate should not cross school year boundaries, i.e. in addition to multiple statuses being a possibility in a given school year, the same status may be repeated so startDate and endDate don't disagree with schoolYear, if included.	MealStatusListType
LastBreakfastDate	O			Date of the last reimbursable breakfast served.	xs:date
LastLunchDate	O			Date of the last reimbursable lunch served.	xs:date
Amounts	O				FSAmountListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.6.19-1: StudentMeal

```

JSON XML
<?xml version="1.0" encoding="UTF-8" standalone="yes">
<StudentMeal RefId="C4E248359D75101ABC3D00AA01A1792" StudentPersonalRefId="D3E348359D75101ABC3D00AA01A1652">
  <MealStatus Type="Free" />
  <HistoricalMealStatus>
    <MealStatus Type="Reduced">
      <startDate>2003-09-01</startDate>
      <endDate>2004-06-01</endDate>
    </MealStatus>
  </HistoricalMealStatus>
  </StudentMeal>

```

Example 3.6.19-1: StudentMeal

3.7 Grade Book Working Group

The goal of the Grade Book Working Group is an efficient, functional standard that supports the entire SIF structure, allowing for easy, bi-directional transfer of data integral to grading.

3.7.1 GradingAssignment

This object provides information about a particular assignment, allows applications to synchronize each other's assignment tables, gathers the definition for a GradingAssignmentScore object, etc.

SIF_Events are reported for this object.

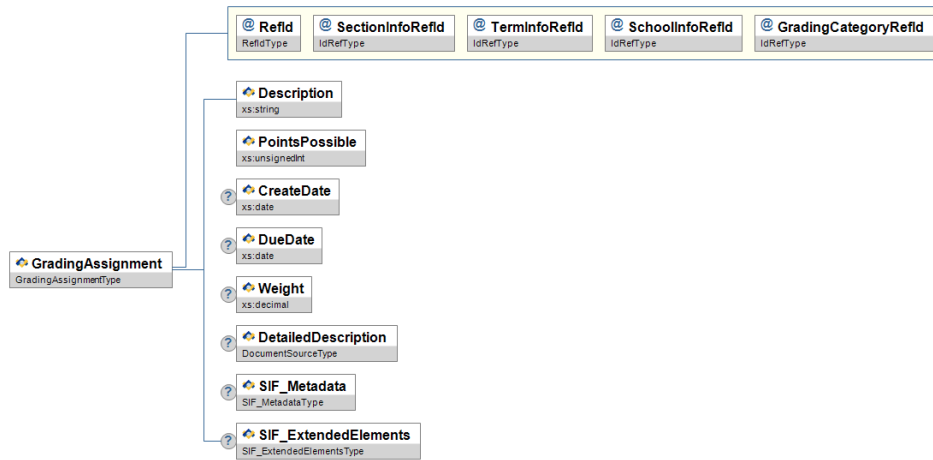


Figure 3.7.1-1: GradingAssignment

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
GradingAssignment				This object provides information about a particular assignment, allows applications to synchronize each other's assignment tables, gathers the definition for a GradingAssignmentScore object, etc.	
@ RefId	M			A GUID that identifies an instance of this object.	RefIdType
@ SectionInfoRefId	M			The GUID for the SectionInfo object.	IdRefType
@ TermInfoRefId	M			The GUID for the TermInfo object that defines the marking period that the assignment was created in.	IdRefType
@ SchoolInfoRefId	M			The Id (GUID) that uniquely identifies the School that these Mark Values apply to.	IdRefType
@ GradingCategoryRefId	M			The GUID for the GradingCategory that this assignment is part of.	IdRefType
Description	M			The text-based description of the assignment.	xs:string
PointsPossible	M			The points possible on the assignment.	xs:unsignedInt
CreateDate	O			Creation date of the assignment.	xs:date
DueDate	O			Date the assignment is due.	xs:date
Weight	O			The weight of the assignment.	xs:decimal
DetailedDescription	O			This element defines the assignment. If the type attribute is URL, this is the location of the document that describes the assignment. If type is PDF, this element will contain the Base64 encoding of the entire document.	DocumentSourceType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.7.1-1: GradingAssignment

```

JSON XML
<GradingAssignment RefId="359075101AD0A907ABC3DAD0A85103A2" SectionInfoRefId="D0A0A27AD0A8510AD9075101ABC3D0A39" TermInfoRefId="ABC3A2E35B359D75101D00AA01A000"
  <Description>Sample</Description>
  <PointsPossible>100</PointsPossible>
  <CreateDate>2000-11-21</CreateDate>
  <DueDate>2000-11-25</DueDate>
  <Weight>1.0</Weight>
  
```

Example 3.7.1-1: GradingAssignment

3.7.2 GradingAssignmentScore

This object provides score information about a particular assignment.

SIF_Events are reported for this object.

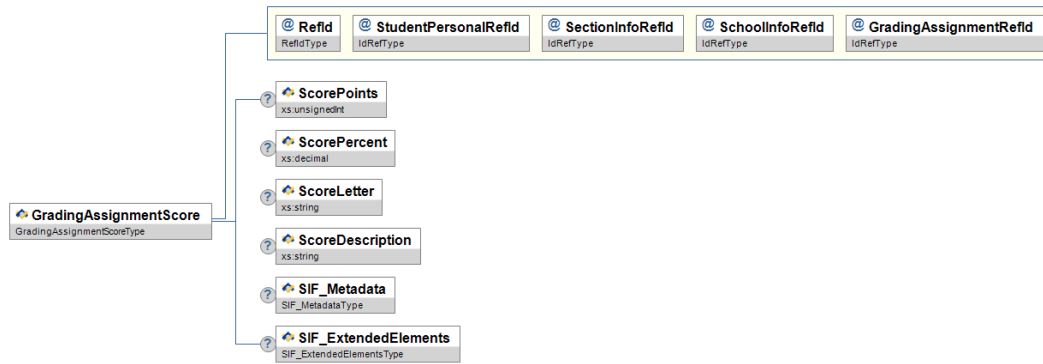


Figure 3.7.2-1: GradingAssignmentScore

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
GradingAssignmentScore				This object provides score information about a particular assignment.	
@RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
@StudentPersonalRefId	M				IdRefType
@SectionInfoRefId	M				IdRefType
@SchoolInfoRefId	M			The GUID that specifies the school this score was recorded at.	IdRefType
@GradingAssignmentRefId	M				IdRefType
ScorePoints	C			The score represented as points. Conditionally required that one or more of ScorePoints, ScorePercent or ScoreLetter must be filled in.	xs:unsignedInt
ScorePercent	C			The score represented as a percent. Conditionally required that one or more of ScorePoints, ScorePercent or ScoreLetter must be filled in.	xs:decimal
ScoreLetter	C			The score represented as a letter grade. Conditionally required that one or more of ScorePoints, ScorePercent or ScoreLetter must be filled in.	xs:string
ScoreDescription	O			Text description of the score.	xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.7.2-1: GradingAssignmentScore

```

JSON
XML
<GradingAssignmentScore RefId="359075101AD0A9078BC3DADD0A8510332" StudentPersonalRefId="A75A00101ABC01D0E23A05835900A05" SectionInfoRefId="D0A0A27AD0A8510AD90"
  <ScorePoints>45</ScorePoints>
  <ScorePercent>90</ScorePercent>
  <ScoreDescription>Excellent</ScoreDescription>
</GradingAssignmentScore>
    
```

Example 3.7.2-1: GradingAssignmentScore

3.7.3 GradingCategory

This object provides information about a particular grading category to provide grouping and type information for assignments.

SIF_Events are reported for this object.

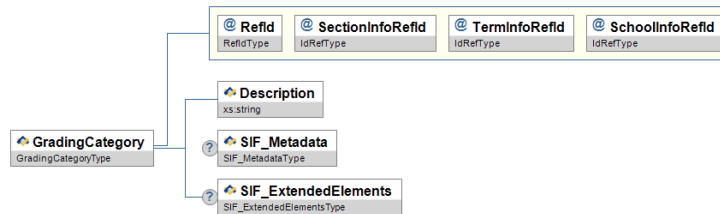


Figure 3.7.3-1: GradingCategory

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
GradingCategory				This object provides information about a particular grading category to provide grouping and type information for assignments.	
@ RefId	M			GUID that identifies a grading category.	RefIdType
@ SectionInfoRefId	M			The GUID for the SectionInfo object that this category is used for grading in.	IdRefType
@ TermInfoRefId	M			The GUID for the TermInfo object that defines the marking period that the category was created in.	IdRefType
@ SchoolInfoRefId	M			The Id (GUID) that uniquely identifies the School that these Mark Values apply to.	IdRefType
Description	M			The name/short description of the category.	xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.7.3-1: GradingCategory

```

JSON
XML
<GradingCategory RefId="98157AA013B8AC3D00AA012B35907512" SectionInfoRefId="13B8AC3D00AA098157AA012B35907512" TermInfoRefId="000AA012B3590798157AA013B8AC3512"
  <Description>Test</Description>
</GradingCategory>
    
```

Example 3.7.3-1: GradingCategory

3.7.4 MarkInfo

This object defines each mark that can be recorded and associates it with a MarkValueInfo object that lists the types of values and valid values for each type. It also places the definition in the context of a school and a school year.

SIF_Events are reported for this object.

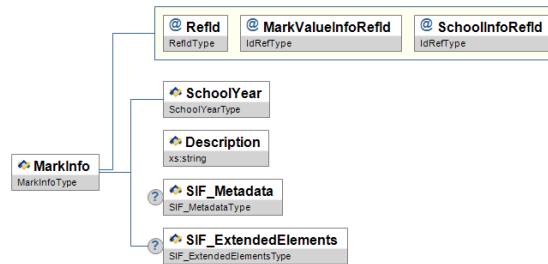


Figure 3.7.4-1: MarkInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
MarkInfo				This object defines each mark that can be recorded and associates it with a MarkValueInfo object that lists the types of values and valid values for each type. It also places the definition in the context of a school and a school year.	
@ RefId	M			The Id (GUID) that uniquely identifies this Grading Mark entity.	RefIdType
@ MarkValueInfoRefId	M			The Id (GUID) that uniquely identifies the MarkValueInfo.	IdRefType
@ SchoolInfoRefId	M			The Id (GUID) that uniquely identifies the School that this Mark applies to.	IdRefType
SchoolYear	M			The year that this MarkInfo applies to.	SchoolYearType
Description	M			Textual description of the type of Mark (e.g. "Marking Period Grade", "Comment 1", "Comment 2", "Conduct", "Effort", "WorkHabits").	xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.7.4-1: MarkInfo

```

JSON
XML
<MarkInfo RefId="4680BA301C1137E214A7CADC75C97" MarkValueInfoRefId="301CADCA7511737E214A7C4680BA4E23" SchoolInfoRefId="11737EA4301CADCA75C87214A7C4680B8"
  <SchoolYear>2004</SchoolYear>
  <Description>Marking Period Grade</Description>
</MarkInfo>
    
```

Example 3.7.4-1: MarkInfo

```

JSON
XML
<MarkInfo RefId="11737E214A7C4680BA301CADCA75C97" MarkValueInfoRefId="11737E214A7C4680BA301CADCA75E23" SchoolInfoRefId="11737EA4301CADCA75C87214A7C4680B8"
  <SchoolYear>2004</SchoolYear>
  <Description>Conduct Grade</Description>
</MarkInfo>
    
```

Example 3.7.4-2: MarkInfo

3.7.5 MarkValueInfo

This object defines the types of values allowed for a mark and the domain for each mark value. At least one of the Percentage, Numeric, Letter or Narrative nodes must be used to create a valid MarkValueInfo.

SIF_Events are reported for this object.

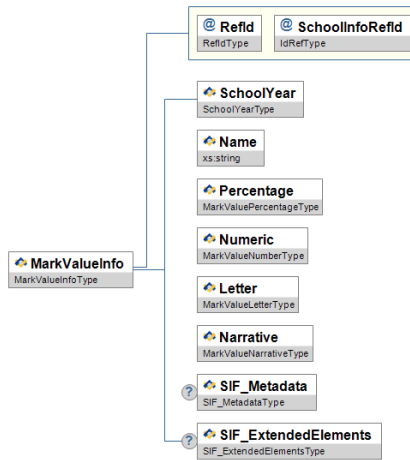


Figure 3.7.5-1: MarkValueInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
MarkValueInfo				This object defines the types of values allowed for a mark and the domain for each mark value. At least one of the Percentage, Numeric, Letter or Narrative nodes must be used to create a valid MarkValueInfo.	
@ RefId	M			The Id (GUID) that uniquely identifies this MarkValueInfo entity.	RefIdType
@ SchoolInfoRefId	M			The Id (GUID) that uniquely identifies the School that these Mark Values apply to.	SchoolInfoRefIdType
SchoolYear	M			The year that this MarkValueInfo applies to.	SchoolYearType
Name	M			The text name of the value list ("Letter Grades", "Letter Grades (+/-)", "ESU", "Pass/Fail", "Override Grades", "Citizenship Comment Codes", etc.).	xs:string
Percentage	M			Indicates whether a percent Mark is accepted (format #0.00).	MarkValuePercentageType
Numeric	M			Indicates whether a raw numeric score is accepted.	MarkValueNumberType
Letter	M			Indicates whether a letter Mark is accepted.	MarkValueLetterType
Narrative	M			If present, indicates that a free-form text narrative is accepted.	MarkValueNarrativeType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.7.5-1: MarkValueInfo

```

JSON XML
<MarkValueInfo RefId="11737E21447C468DBA301CADCA75C97" SchoolInfoRefId="11737EA4301CADCA75C9721447C468DB" >
  <SchoolYear>2004</SchoolYear>
  <Name Letter Grades</Name>
  <Percentage IsAccepted="false" />
  <Numeric IsAccepted="false" />
  <Letter IsAccepted="true" />
</MarkValueInfo>
    
```

Example 3.7.5-1: MarkValueInfo

```

JSON XML
<MarkValueInfo RefId="11737E21447C468DBA301CADCA75C97" SchoolInfoRefId="11737EA4301CADCA75C9721447C468DB" >
  <SchoolYear>2004</SchoolYear>
  <Name Numeric Grades</Name>
  <Percentage IsAccepted="false" />
  <Numeric IsAccepted="true" />
  <Precision>6</Precision>
</MarkValueInfo>
    
```

Example 3.7.5-2: MarkValueInfo

```

JSON XML
<MarkValueInfo RefId="11737E21447C468DBA301CADCA75C97" SchoolInfoRefId="11737EA4301CADCA75C9721447C468DB" >
  <SchoolYear>2004</SchoolYear>
  <Name Free Form Comment</Name>
  <Percentage IsAccepted="false" />
  <Numeric IsAccepted="false" />
  <Letter IsAccepted="false" />
</MarkValueInfo>
    
```

Example 3.7.5-3: MarkValueInfo

3.7.6 OfficialStudentPeriodAttendance

This object provides attendance for a student in the context of a SectionInfo object. It is used to represent the final/official attendance that has been assigned to a student. Only one agent in a zone should generate events for this object. That agent is responsible for receiving and validating all StudentPeriodAttendance events and for generating a corresponding OfficialStudentPeriodAttendance event once any unofficial events have been processed.

SIF_Events are reported for this object.



Figure 3.7.6-1: OfficialStudentPeriodAttendance

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
OfficialStudentPeriodAttendance				This object provides attendance for a student in the context of a SectionInfo object. It is used to represent the final/official attendance that has been assigned to a student. Only one agent in a zone should generate events for this object. That agent is responsible for receiving and validating all StudentPeriodAttendance events and for generating a corresponding OfficialStudentPeriodAttendance event once any unofficial events have been processed.	Extension of StudentPeriodAttendance

Table 3.7.6-1: OfficialStudentPeriodAttendance

```

JSON XML
<OfficialStudentPeriodAttendance RefId="9B157AA013BABC3D00AA012B359D7532" StudentPersonalRefId="A75A00101ABC301D023A05B359D0A00" SchoolInfoRefId="11737BA4301"
  <TimeAdaptationRefId=">
  <AttendanceCode AttendanceCodeInfoRefId="1A0000359075101ABC3D00AA00A2E35B">942</AttendanceCode>
  <AuditInfo>
  <CreationUser Type="School Admin">
  <UserAttendanceResponse/UserId>
  
```

Example 3.7.6-1: OfficialStudentPeriodAttendance

3.7.7 SectionMarkInfo

This object defines the marking periods (TermInfo) that marks (StudentSectionMarks) are recorded in for a particular section (SectionInfo) and lists the types of marks (MarkTypeInfo) that are valid for that marking period (TermInfo). SIF_Events are reported for this object.

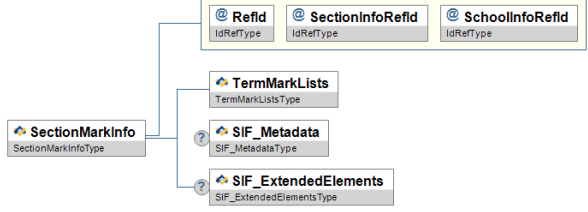


Figure 3.7.7-1: SectionMarkInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
SectionMarkInfo				This object defines the marking periods (TermInfo) that marks (StudentSectionMarks) are recorded in for a particular section (SectionInfo) and lists the types of marks (MarkTypeInfo) that are valid for that marking period (TermInfo).	
@ RefId	M			A GUID that identifies an instance of the object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	IdRefType
@ SectionInfoRefId	M			The Id (GUID) that uniquely identifies the SectionInfo object that this item refers to.	IdRefType
@ SchoolInfoRefId	M			The Id (GUID) that uniquely identifies the School that these Mark Values apply to.	IdRefType
TermMarkLists	M				TermMarkListsType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.7.7-1: SectionMarkInfo

```

JSON XML
<SectionMarkInfo RefId="359075101AD0A907ABC3D00AA0103A2" SectionInfoRefId="11737E21447C4680BA4301CADCA75C87" SchoolInfoRefId="11737BA4301CADCA75C8721447C4680"
  <TermMarkLists>
  <MarkInfoList TermInfoRefId="80BA4301CA1A7C461737DCA75C87B2144">
  <MarkInfoRefId="A7C4680BA4301CA11737E21447C468075C87">MarkInfoRefId</MarkInfoRefId>
  <MarkInfoRefId="80BA4301CADCA75C8711737E21447C468075C87">MarkInfoRefId</MarkInfoRefId>
  </MarkInfoList>
  
```

Example 3.7.7-1: SectionMarkInfo

3.7.8 StudentGrade

This is an object that a LMS or other application will utilize to provide grades about students in a section to a grade book. A grade book is often used to collect various assignment scores or test scores for students in a class or section and then calculate various grades or marks that are printed on report cards. When a LMS is also being used in a LEA, additional information is gathered by the LMS and some of this information needs to be available to the grade book to facilitate calculation of the report card grades or marks (i.e. StudentSectionMarks). This object is available to facilitate communication of the final grade from the LMS to the grade book.

SIF_Events are reported for this object.

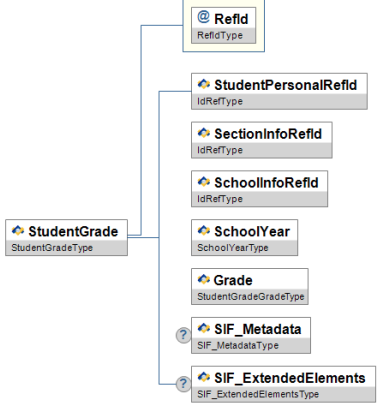


Figure 3.7.8-1: StudentGrade

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentGrade				This object contains the final grade for a student in a section.	
@ RefId	M			The Id (GUID) that uniquely identifies this object.	RefIdType
StudentPersonalRefId	M			The Id (GUID) that uniquely identifies the studentPersonal object that this item refers to.	IdRefType
SectionInfoRefId	M			The Id (GUID) that uniquely identifies the sectionInfo object that this item refers to.	IdRefType
SchoolInfoRefId	M			The Id (GUID) that uniquely identifies the school that these values apply to.	IdRefType
SchoolYear	M			School year for which this information is applicable, expressed as the four-digit year in which the school year ends (e.g., 2008 for the 2007-08 school year).	SchoolYearType
Grade	M			This is the one grade given for this student and section. At least one numeric, percentage or letter must be provided as defined in the fields below. If <i>Grade/Numeric</i> is entered, <i>Grade/OutOf</i> , <i>Grade/Low</i> and <i>Grade/High</i> must also be entered.	StudentGradeGradeType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.7.8-1: StudentGrade

```

JSON
XML
<StudentGrade RefId="0E54211E78E74FC9B32E5F05AC2A4C0D">
  <StudentPersonalRefId>A3137D88908C744E9F9AF27112E899A2A</StudentPersonalRefId>
  <SectionInfoRefId>AAA0937D8392B80297E2A7B08F9A3914</SectionInfoRefId>
  <SchoolInfoRefId>9335C3822A8A92438C4E7A09928C47D</SchoolInfoRefId>
  <SchoolYear>2008</SchoolYear>
  <Grade>

```

Example 3.7.8-1: StudentGrade

3.7.9 StudentPeriodAttendance

This object provides attendance for a student in the context of a SectionInfo object. This object is used by all agents in a zone that provide period attendance, but don't have the logic to determine whether or not they have sufficient rights to override attendance from another user or system. Agents that represent a system that can validate attendance based on, among other things, its source, should subscribe to StudentPeriodAttendance events to collect "suggested" attendance changes from the zone, and should then publish "accepted" attendance changes as OfficialStudentPeriodAttendance events. A rejected change would result in an event that reverts the system that generated the rejected event back to its previous state or to some other state that represents the correct "official" attendance.

SIF_Events are reported for this object.

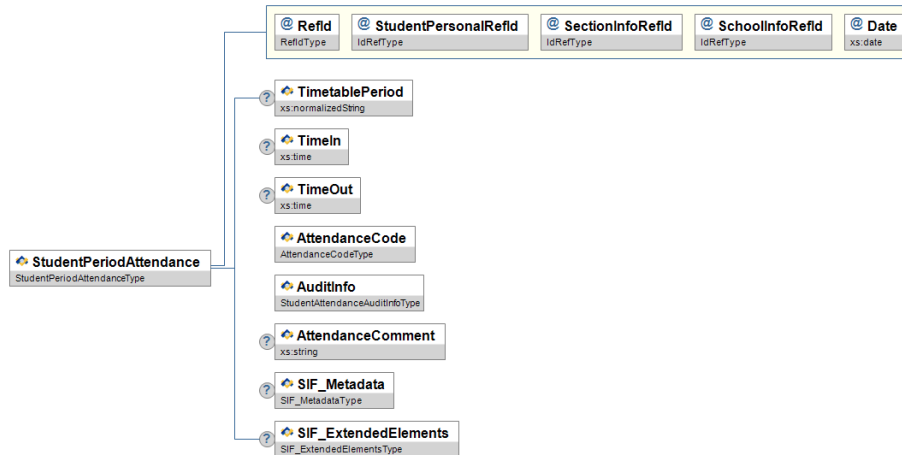


Figure 3.7.9-1: StudentPeriodAttendance

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentPeriodAttendance				This object provides attendance for a student in the context of a SectionInfo object. This object is used by all agents in a zone that provide period attendance, but don't have the logic to determine whether or not they have sufficient rights to override attendance from another user or system. Agents that represent a system that can validate attendance based on, among other things, its source, should subscribe to StudentPeriodAttendance events to collect "suggested" attendance changes from the zone, and should then publish "accepted" attendance changes as OfficialStudentPeriodAttendance events. A rejected change would result in an event that reverts the system that generated the rejected event back to its previous state or to some other state that represents the correct "official" attendance.	
@ RefId	M				RefIdType
@ StudentPersonalRefId	M			The GUID of the student that this attendance applies to.	IdRefType
@ SectionInfoRefId	M			The GUID of the section that this attendance applies to.	IdRefType
@ SchoolInfoRefId	M			The school where the attendance was recorded. Somewhat redundant, needed for requests.	IdRefType
@ Date	M			The date of the attendance event.	xs:date
TimetablePeriod	C			The period within which attendance is being reported, e.g. "4D". Conditional on the SectionInfo object having MeetingTime elements. If one or more are defined for the Section, this element is required.	xs:normalizedString
TimeIn	O			The time the student entered or returned to this class.	xs:time
TimeOut	O			The time the student left this class.	xs:time
AttendanceCode	M			The local attendance code.	AttendanceCodeType
AuditInfo	M			An audit trail to help determine who entered this attendance event and when.	StudentAttendanceAuditInfoType
AttendanceComment	O			This element contains the comments that are relevant to this attendance record.	xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.7.9-1: StudentPeriodAttendance

```

JSON
XML
<StudentPeriodAttendance RefId="98157AA013BAC3D00AA012B359D7512" StudentPersonalRefId="A75A00101ABC301D02E3A0583590A00" SchoolInfoRefId="11737EA43010ADCAT5C"
  <TimeTablePeriodRefId="4D" />
  <AttendanceCode AttendanceCodeInfoRefId="1A0900359075101ABC3D00AA0A02E358">942</AttendanceCode>
  <AuditInfo>
    <CreationUser Type="School Admin">
      <UserID=AttendanceKeeper</UserID>
    </CreationUser>
  </AuditInfo>
  <SIF_Metadata />
  <SIF_ExtendedElements />
</StudentPeriodAttendance>
    
```

Example 3.7.9-1: StudentPeriodAttendance

3.7.10 StudentSectionMarks

This object contains the marks entered for a student in a class section for a specific marking period.

SIF_Events are reported for this object.

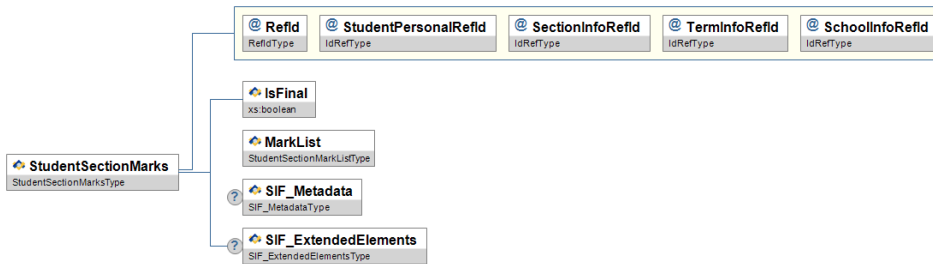


Figure 3.7.10-1: StudentSectionMarks

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentSectionMarks				This object contains the marks entered for a student in a class section for a specific marking period.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
@ StudentPersonalRefId	M			The Id (GUID) that uniquely identifies the StudentPersonal object that this item refers to.	IdRefType
@ SectionInfoRefId	M			The Id (GUID) that uniquely identifies the SectionInfo object that this item refers to.	IdRefType
@ TermInfoRefId	M			The Id (GUID) that identifies the marking period that the following marks are recorded in.	IdRefType
@ SchoolInfoRefId	M			The Id (GUID) that uniquely identifies the School that these Mark Values apply to.	IdRefType
IsFinal	M			Indicates if the grades are "Final" from the perspective of the teacher or school. Does not mean that change events will not occur for this item.	xs:boolean
MarkList	M			A list of marks received for this student in this section. For each Mark entry, at least one of the sub-elements must be specified.	StudentSectionMarkListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.7.10-1: StudentSectionMarks

```

JSON
XML
<StudentSectionMarks RefId="359075101AD08907A8C3DAD0A51032" StudentPersonalRefId="117372A4301CADC75C8721487C4480B" SectionInfoRefId="117372E214A7C4480B84330"
  <IsFinal>true</IsFinal>
  <MarkList>
    <Mark MarkInfoRefId="A7C4680B84301CA117372E214DC475C87"
      <Percentage>88</Percentage>
      <Grade>B</Grade>
    </Mark>
  </MarkList>
</StudentSectionMarks>
    
```

Example 3.7.10-1: StudentSectionMarks

3.8 Human Resources & Financials Working Group

The Human Resources & Financials Working Group defines the SIF specifications for human resources and financial application software, focusing solely on defining specifications for the information required by the other SIF application groups from the human resource and financial applications in order to prevent duplicate input of the same data, or to keep applications in sync with data that is primarily maintained in human resource and financial applications.

3.8.1 AccountingPeriod

This object defines an accounting period within a fiscal year.

SIF_Events are reported for this object.

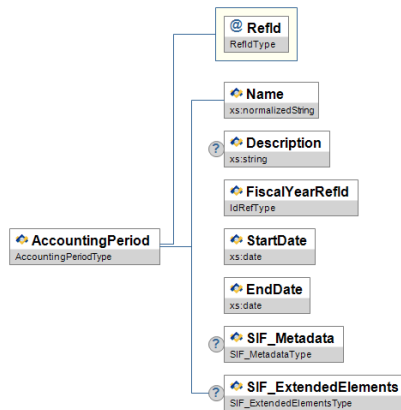


Figure 3.8.1-1: AccountingPeriod

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AccountingPeriod				This object defines an accounting period within a fiscal year.	
@ RefId	M			GUID that identifies this accounting period.	RefIdType
Name	M			Name of the accounting period.	xs:normalizedString
Description	O				xs:string
FiscalYearRefId	M			Fiscal year to which this accounting period belongs.	IdRefType
StartDate	M			Start date of the accounting period.	xs:date
EndDate	M			End date of the accounting period.	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.1-1: AccountingPeriod

```

JSON
XML
<AccountingPeriod RefId="A88CC23B059C409CA9F98B03DFF94F1">
  <Name>Quarter 1</Name>
  <Description>First QLR</Description>
  <FiscalYearRefId>A8109FAC200418490F5C418F30F18A3</FiscalYearRefId>
  <StartDate>2003-03-01</StartDate>
  <EndDate>2003-03-31</EndDate>
</AccountingPeriod>
    
```

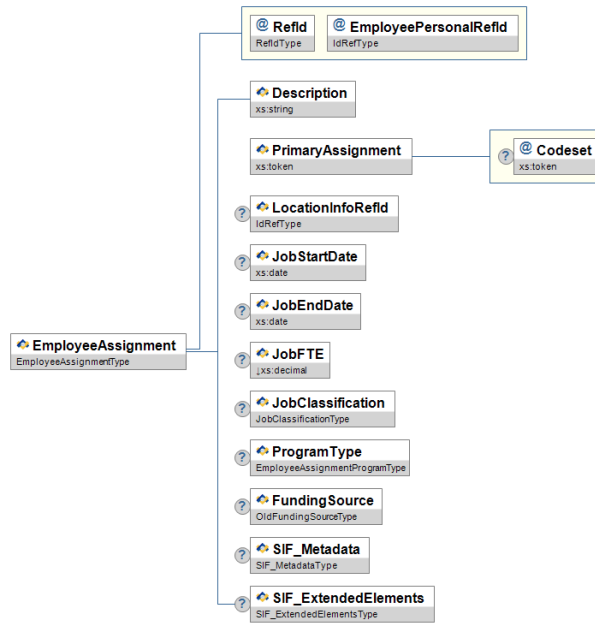



Figure 3.8.3-1: EmployeeAssignment

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EmployeeAssignment				This object defines information related to an employee assignment as it pertains to the human resource needed to track employee assignment for employee reporting and financial funding tracking. The staff assignment record will hold more detail of the actual assignment. There are multiple records for each assignment and/or location.	
@ Refid	M			The GUID that uniquely identifies a particular HR staff assignment.	RefIdType
@ EmployeePersonalRefid	M			This GUID referencing the parent EmployeePersonal object	IdRefType
Description	M			Short assignment description	xs:string
PrimaryAssignment	M		000525 https://ceds.ed.gov/element/000525	Is this the staff member's primary assignment? There must be one and only one instance of the object with Yes in this value per school year.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
LocationInfoRefid	O			This is an optional element so the placement of the employee within the agency can be tracked as needed. The GUID references the LocationInfo object.	IdRefType
JobStartDate	O		000526 https://ceds.ed.gov/element/000526	This is the date from which the staff assignment is valid (inclusive).	xs:date
JobEndDate	C		000527 https://ceds.ed.gov/element/000527	This is the date through which the staff assignment is valid (inclusive). Present if the JobStartDate is entered and a JobEndDate is available.	xs:date
JobFTE	O		000118 https://ceds.ed.gov/element/000118	Full-time job equivalent ratio for this assignment. (Format is x.xx; an employee who is full-time and who spends 50% of their time on this assignment would be represented as 0.50)	xs:decimal
JobClassification	O			The specific group of duties or responsibilities of position.	JobClassificationType
ProgramType	O			The type of instructional or non-instructional program.	EmployeeAssignmentProgramType
FundingSource	O			Provider of funds for the program or service.	OldFundingSourceType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.3-1: EmployeeAssignment

```

JSON
XML
<EmployeeAssignment RefId="F21078BA3261545A319059378245CE01" EmployeePersonalRefId="8E1078BA3261545A319059378245CE02">
  <DescriptionFirst grade elementary teacher/>
  <PrimaryAssignment>
    <LocationInfoRefId>P01078BA3261545A319059378245CE014/LocationInfoRefId
  </LocationInfoRefId>
  <JobStartDate>2011-08-15/>
  <JobEndDate>

```

Example 3.8.3-1: EmployeeAssignment

3.8.4 EmployeeContract

This object contains HR contract information related to employees.

SIF_Events are reported for this object.

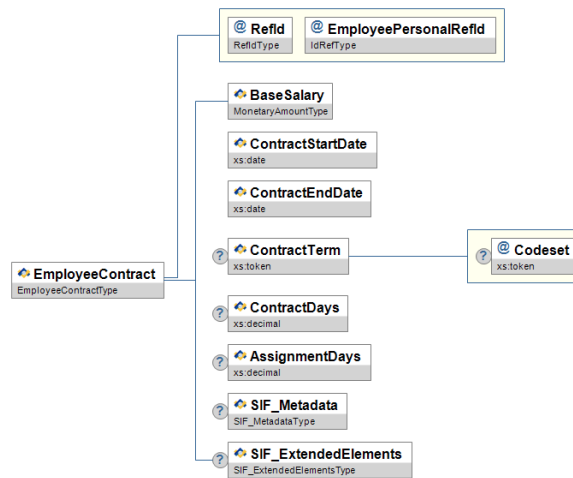


Figure 3.8.4-1: EmployeeContract

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EmployeeContract				This object contains HR contract information related to employees.	
@ RefId	M			The GUID of the employee contract information.	RefIdType
@ EmployeePersonalRefId	M			The GUID that refers to the EmployeePersonal object.	IdRefType
BaseSalary	M		000032 https://ceds.ed.gov/element/000032	Base salary of employee for this contract	MonetaryAmountType
ContractStartDate	M			Contractual start date.	xs:date
ContractEndDate	M			Contractual ending date.	xs:date
ContractTerm	O			Contractual Term in school years	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ContractDays	O			Number of days in service for contract total	xs:decimal
AssignmentDays	O		000047 https://ceds.ed.gov/element/000047	Number of days per year employee is expected to work in this assignment	xs:decimal
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.4-1: EmployeeContract

```

JSON
XML
<EmployeeContract RefId="AA1078BA3261545A319059378265CE01" EmployeePersonalRefId="AB1078BA3261545A319059378265CE01">
  <BaseSalary currency="USD">20500</BaseSalary>
  <ContractStartDate>2009-07-01</ContractStartDate>
  <ContractEndDate>2014-06-30</ContractEndDate>
  <ContractTerm>0410</ContractTerm>
  <ContractDays>190</ContractDays>
</EmployeeContract>
    
```

Example 3.8.4-1: EmployeeContract

3.8.5 EmployeePersonal

This object contains basic HR information for employees.

SIF_Events are reported for this object.

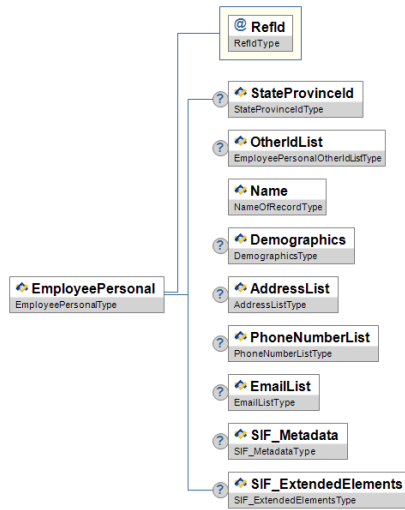


Figure 3.8.5-1: EmployeePersonal

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EmployeePersonal				This object contains basic HR information for employees.	
@ RefId	M			The GUID that uniquely identifies this employee.	RefIdType
StateProvinceId	O			The state-assigned identifier for this staff member.	StateProvinceIdType
OtherIdList	O			List all "other" Ids associated with the employee.	EmployeePersonaOtherIdListType
Name	M			Name of employee.	NameOfRecordType
Demographics	O			This element contains information related to employee demographics.	DemographicType
AddressList	O			The employee's address(es).	AddressListType
PhoneNumberList	O			The employee's phone number(s).	PhoneNumberListType
EmailList	O			The employee's e-mail address(es).	EmailListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.5-1: EmployeePersonal

```

JSON
XML
<EmployeePersonal RefId="CD5906512250AC385908A3458BC39583">
  <OtherIdList>
    <OtherId Type="SSN">590651225</OtherId>
    <OtherId Type="Other">3333</OtherId>
  </OtherIdList>
  <Name Type="N1">

```

Example 3.8.5-1: EmployeePersonal

3.8.6 EmployeePicture

This object contains information about an employee's picture.

SIF_Events are reported for this object.

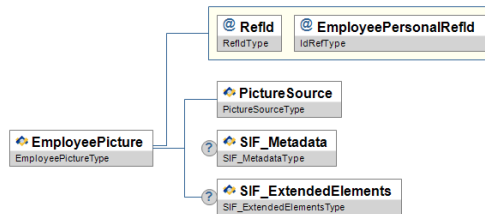


Figure 3.8.6-1: EmployeePicture

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EmployeePicture				This object contains information about an employee's picture.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
@ EmployeePersonalRefId	M			This is the GUID of the Employee whose picture this is.	IdRefType
PictureSource	M			This element defines the picture. If the Type attribute is URL, this is the location of the picture in [JPEG] format; if Type is JPEG, this is the [JPEG] image data encoded using the Base64 Content-Transfer-Encoding defined in Section 6.8 of [RFC 2045].	PictureSourceType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.6-1: EmployeePicture

```

JSON
XML
<EmployeePicture RefId="359075101A0A9D7ARC3DA0A8510382" EmployeePersonalRefId="D3E34B359075101ABC3D00AA001A1652">
  <PictureSource Type="URL">https://www.schools.k12.ca.us/pictures/1999/1234.jpg</PictureSource>
</EmployeePicture>
    
```

Example 3.8.6-1: EmployeePicture

3.8.7 EmployeeWage

This object contains HR/payroll employee information used to define how to pay an employee per pay cycle.

SIF_Events are reported for this object.

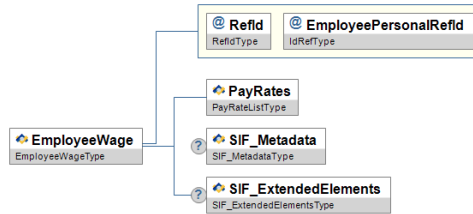


Figure 3.8.7-1: EmployeeWage

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EmployeeWage				This object contains HR/payroll employee information used to define how to pay an employee per pay cycle.	
@ RefId	M			The GUID of the employee's pay information.	RefIdType
@ EmployeePersonalRefId	M			The GUID that refers to the EmployeePersonal object.	IdRefType
PayRates	M				PayRateListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.7-1: EmployeeWage

```

JSON
XML
<EmployeeWage RefId="CD996512250AC385902A3458BC39583" EmployeePersonalRefId="CD4906512250AC385902A3458BC39522">
  <PayRates>
    <PayRate Type="P">
      <Amount Currency="USD">355.45</Amount>
      <Percentage>100</Percentage>
    </PayRate>
  </PayRates>
    
```

Example 3.8.7-1: EmployeeWage

3.8.8 EmploymentRecord

This object contains a snapshot (view) of employment information for an employee.

SIF_Events are reported for this object.

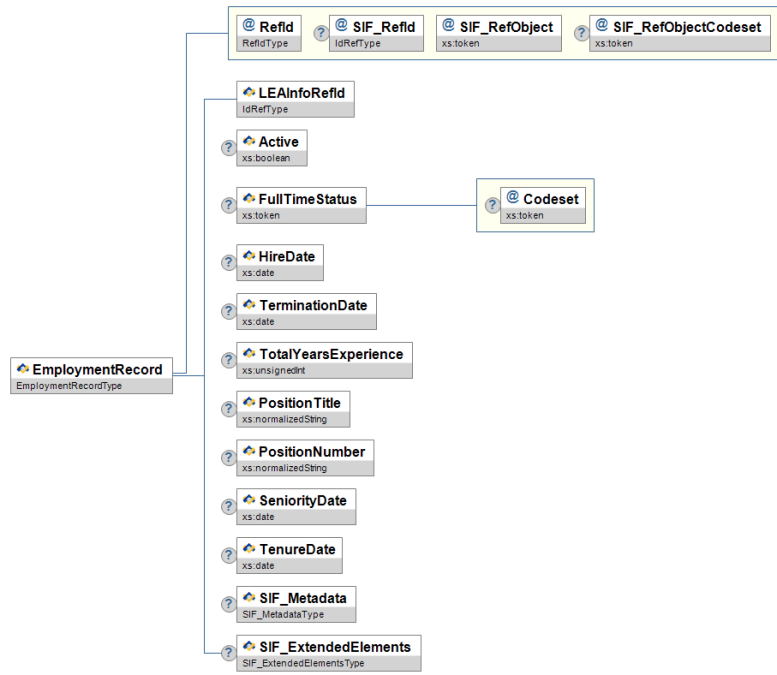


Figure 3.8.8-1: EmploymentRecord

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EmploymentRecord				This object contains a snapshot (view) of employment information for an employee.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
@ SIF_RefId	O			The GUID can either refer to the EmployeePersonal or StaffPersonal object.	IdRefType
@ SIF_RefObject	M				xs:token
@ SIF_RefObjectCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
LEAInfoRefId	M			The GUID reference to the LEAInfo object representing the LEA that employs the staff member.	IdRefType
Active	O		000347 https://ceds.ed.gov/element/000347	Staff is currently active and/or employed.	xs:boolean
FullTimeStatus	O			Full-time status of employee.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
HireDate	O			Date the employee was hired.	xs:date
TerminationDate	C			Date the employee resigned. Present if a HireDate is entered and a TerminationDate is available.	xs:date
TotalYearsExperience	O		000302 https://ceds.ed.gov/element/000302	Total number of years of prior experience.	xs:unsignedInt
PositionTitle	O		000213 https://ceds.ed.gov/element/000213	Employee's current position title.	xs:normalizedString
PositionNumber	O			Employee's level or category assigned by employer.	xs:normalizedString
SeniorityDate	O			Date employee has seniority.	xs:date
TenureDate	O			Date employee is tenured.	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.8-1: EmploymentRecord

```

JSON
XML
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<EmploymentRecord RefId="35907510120A807A8C3DAD0A8103A2" SIF_RefId="CD996512150AC38590EA3458BC39527">
  <LEAInfoRefId>#45A0A4E5C40C985C07C980696725</LEAInfoRefId>
  <Active>true</Active>
  <FullTimeStatus>#42</FullTimeStatus>
  <HireDate>2003-03-20</HireDate>
  <TotalYearsExperience>25</TotalYearsExperience>
</EmploymentRecord>
    
```

Example 3.8.8-1: EmploymentRecord

3.8.9 FinancialAccount

This object communicates information about a financial account.

SIF_Events are reported for this object.

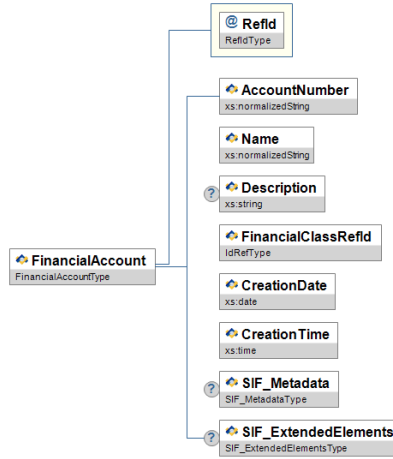


Figure 3.8.9-1: FinancialAccount

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FinancialAccount				This object communicates information about a financial account.	
Refid	M			GUID that identifies this financial account.	RefIdType
AccountNumber	M			Account number used for ledger.	xs:normalizedString
Name	M			Name of the account.	xs:normalizedString
Description	O			Description.	xs:string
FinancialClassRefid	M			Financial class of the account.	IdRefType
CreationDate	M			Account creation date.	xs:date
CreationTime	M			Account creation time.	xs:time
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.9-1: FinancialAccount

JSON XML

```
<FinancialAccount RefId="82C8FC128D2C4E394A86C395024ED8">
  <AccountNumber>999001</AccountNumber>
  <Name>Purchased Foods</Name>
  <Description>Purchased Foods</Description>
  <FinancialClassRefid>5E768A73F48039F0B880A928F503B</FinancialClassRefid>
  <CreationDate>2003-01-01</CreationDate>
</FinancialAccount>
```

Example 3.8.9-1: FinancialAccount

3.8.10 FinancialAccountAccountingPeriodLocationInfo

This object relates financial account to an accounting period and a location.

SIF_Events are reported for this object.

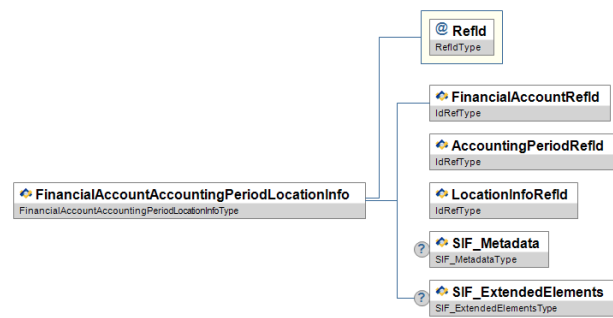


Figure 3.8.10-1: FinancialAccountAccountingPeriodLocationInfo

Element/@ Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FinancialAccountAccountingPeriodLocationInfo				This object relates financial account to an accounting period and a location.	
@ RefId	M			GUID that identifies this object.	RefIdType
FinancialAccountRefId	M			Financial account reference.	IdRefType
AccountingPeriodRefId	M			Accounting period reference.	IdRefType
LocationInfoRefId	M			LocationInfo reference.	IdRefType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.10-1: FinancialAccountAccountingPeriodLocationInfo

```

JSON XML
<?xml version="1.0" encoding="UTF-8" ?>
<FinancialAccountAccountingPeriodLocationInfo RefId="B595A959588FE42448DF0E9FC635C0D8">
  <FinancialAccountRefId>B595A959588FE42448DF0E9FC635C0D8</FinancialAccountRefId>
  <AccountingPeriodRefId>B595A959588FE42448DF0E9FC635C0D8</AccountingPeriodRefId>
  <LocationInfoRefId>B595A959588FE42448DF0E9FC635C0D8</LocationInfoRefId>
</FinancialAccountAccountingPeriodLocationInfo>
    
```

Example 3.8.10-1: FinancialAccountAccountingPeriodLocationInfo

3.8.11 FinancialAnnual

This object contains information about account code annual financial totals, summarized by major and/or minor account code breaks.

SIF_Events are not reported for this object.

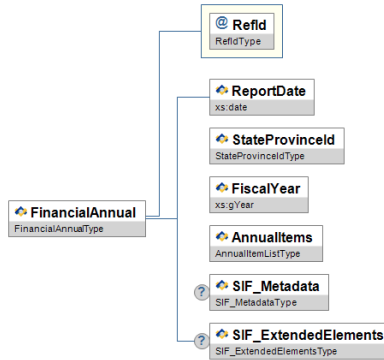


Figure 3.8.11-1: FinancialAnnual

Element/@ Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FinancialAnnual				This object contains information about account code annual financial totals, summarized by major and/or minor account code breaks.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
ReportDate	M			Date on which snapshot was generated.	xs:date
StateProvinceId	M			State assigned reporting Id for district or agency	StateProvinceIdType
FiscalYear	M			Fiscal year of summary account (e.g. the 2003-2004 fiscal year will be denoted as 2004)	xs:gYear
AnnualItems	M				AnnualItemsListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.11-1: FinancialAnnual

```

JSON XML
<?xml version="1.0" encoding="UTF-8" ?>
<FinancialAnnual RefId="359075101AD0A9D7ABC3DA0A85103A2">
  <ReportDate>2011-07-21</ReportDate>
  <StateProvinceId>1234</StateProvinceId>
  <FiscalYear>2012</FiscalYear>
  <AnnualItems>
    <AnnualItem>
    
```

Example 3.8.11-1: FinancialAnnual

3.8.12 FinancialBudget

This object contains information about account code budget totals, summarized by major and/or minor account code breaks. It is a snapshot object used to allow a district to report summarized financial budgetary information to their state as required.

SIF_Events are not reported for this object.

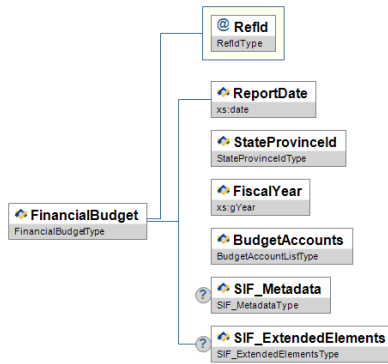


Figure 3.8.12-1: FinancialBudget

Element/@ Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FinancialBudget				This object contains information about account code budget totals, summarized by major and/or minor account code breaks. It is a snapshot object used to allow a district to report summarized financial budgetary information to their state as required.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
ReportDate	M			Date on which snapshot was generated.	xs:date
StateProvinceId	M			State-assigned identifier for this location	StateProvinceIdType
FiscalYear	M			Fiscal Year of summary account (e.g. the 2003-2004 fiscal year will be denoted as 2004)	xs:gYear
BudgetAccounts	M			Information about budget accounts being submitted.	BudgetAccountListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.12-1: FinancialBudget

JSON XML

```
<FinancialBudget RefId="359075103AD0A9D7ABC3D0A0A85103A2">
  <ReportDate>2003-07-01</ReportDate>
  <StateProvinceId>123456789</StateProvinceId>
  <FiscalYear>2004</FiscalYear>
  <BudgetAccounts>
    <BudgetAccount>
```

Example 3.8.12-1: FinancialBudget

3.8.13 FinancialClass

This object communicates financial class information. Financial classes are used to categorize financial accounts.

SIF_Events are reported for this object.

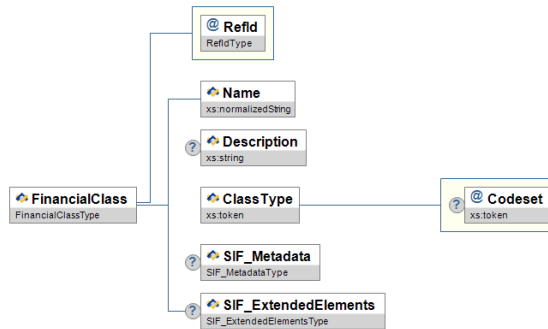


Figure 3.8.13-1: FinancialClass

Element/@ Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FinancialClass				This object communicates financial class information. Financial classes are used to categorize financial accounts.	
@ RefId	M			GUID that identifies this financial class.	RefIdType
Name	M			Name of the financial class.	xs:normalizedString
Description	O			Description.	xs:string
ClassType	M				xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.13-1: FinancialClass

```

JSON XML
<FinancialClass RefId="E8C8FC12B0DC4BE394A86C5395024E8E">
  <Name>Asset</Name>
  <Description>Assets</Description>
  <ClassType>Asset</ClassType>
</FinancialClass>
    
```

Example 3.8.13-1: FinancialClass

3.8.14 FinancialIncomeStatement

This object communicates the income statement details for a location and an accounting period.

SIF_Events are reported for this object.

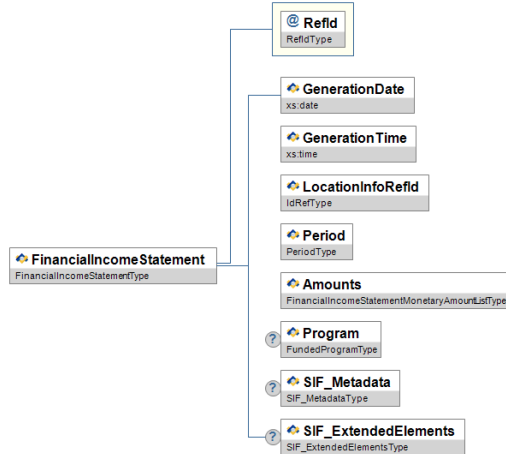


Figure 3.8.14-1: FinancialIncomeStatement

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FinancialIncomeStatement				This object communicates the income statement details for a location and an accounting period.	
@ RefId	M			GUID that identifies this income statement.	RefIdType
GenerationDate	M			Generation date.	xs:date
GenerationTime	M			Generation time.	xs:time
LocationInfoRefId	M			LocationInfo reference.	IdRefType
Period	M			Period of the income statement.	PeriodType
Amounts	M			Amount in the account.	FinancialIncomeStatementMonetaryAmountListType
Program	O				FundedProgramType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.14-1: FinancialIncomeStatement

```

JSON XML
<FinancialIncomeStatement RefId="E72C08BD41894187BA07B0DC14018E3F">
  <GenerationDate>2003-12-31</GenerationDate>
  <GenerationTime>94:23:22-08:00</GenerationTime>
  <LocationInfoRefId>FA8352080CC74A3DA815822F96F5E15</LocationInfoRefId>
  <Period>
    <StartDate>2003-01-01</StartDate>
  </Period>
</FinancialIncomeStatement>
    
```

Example 3.8.14-1: FinancialIncomeStatement

3.8.15 FinancialTransaction

This object communicates a financial transaction. A transaction can be for the daily food sales revenue account.

SIF_Events are reported for this object.

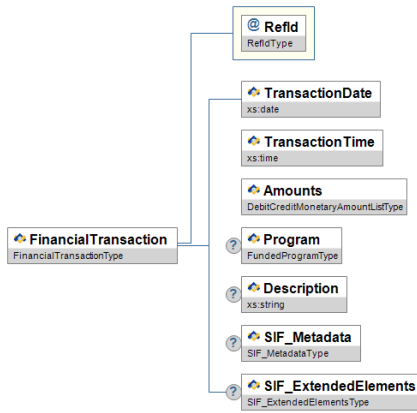


Figure 3.8.15-1: FinancialTransaction

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FinancialTransaction				This object communicates a financial transaction. A transaction can be for the daily food sales revenue account.	
@ RefId	M			GUID that identifies this financial transaction.	RefIdType
TransactionDate	M			Transaction date.	xs:date
TransactionTime	M			Transaction time.	xs:time
Amounts	M			Monetary amount of the transaction.	DebitCreditMonetaryAmountListType
Program	O				FundedProgramType
Description	O				xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.15-1: FinancialTransaction

```

JSON
XML

<FinancialTransaction RefId="E72C88D41894187BA07800C1401BE3F">
  <TransactionDate>2003-01-01</TransactionDate>
  <TransactionTime>04:32:23-08:00</TransactionTime>
  <Amounts>
    <Amount FinancialAccountAccountingPeriodLocationInfoRefId="8595A5993A8F43448DF0F5C635C00E1D" Type="Debit" Currency="USD">99999.99</Amount>
    <Amount FinancialAccountAccountingPeriodLocationInfoRefId="3FCE79939A8F43448DF0936C5F5CD0DE1" Type="Credit" Currency="USD">99999.99</Amount>
  </Amounts>
  <Program>
    <FundedProgramType>
      <Description>
        <xs:string>
      </xs:string>
    </FundedProgramType>
  </Program>
  <SIF_Metadata>
    <SIF_MetadataType>
      <SIF_ExtendedElements>
        <SIF_ExtendedElementsType>
      </SIF_ExtendedElementsType>
    </SIF_MetadataType>
  </SIF_Metadata>
</FinancialTransaction>
    
```

Example 3.8.15-1: FinancialTransaction

3.8.16 Fiscal Year

This object defines a fiscal year.

SIF_Events are reported for this object.

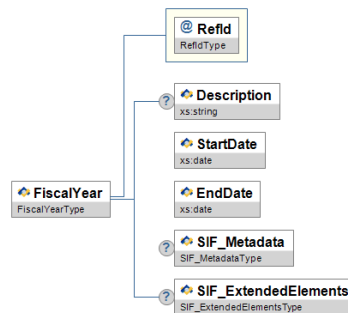


Figure 3.8.16-1: FiscalYear

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
FiscalYear				This object defines a fiscal year.	
@ RefId	M			GUID that identifies this object.	RefIdType
Description	O			A description of the fiscal year.	xs:string
StartDate	M			Start date of the fiscal year.	xs:date
EndDate	M			End date of the fiscal year.	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.16-1: FiscalYear

```

JSON  XML 
<FiscalYear RefId="C0C5593B384440A0A8575C7BF90C02">
  <Description>Fiscal Year 2003</Description>
  <StartDate>2003-01-01</StartDate>
  <EndDate>2003-12-31</EndDate>
</FiscalYear>
    
```

Example 3.8.16-1: FiscalYear

3.8.17 LocationInfo

LocationInfo represents a location in a district.
 SIF_Events are reported for this object.

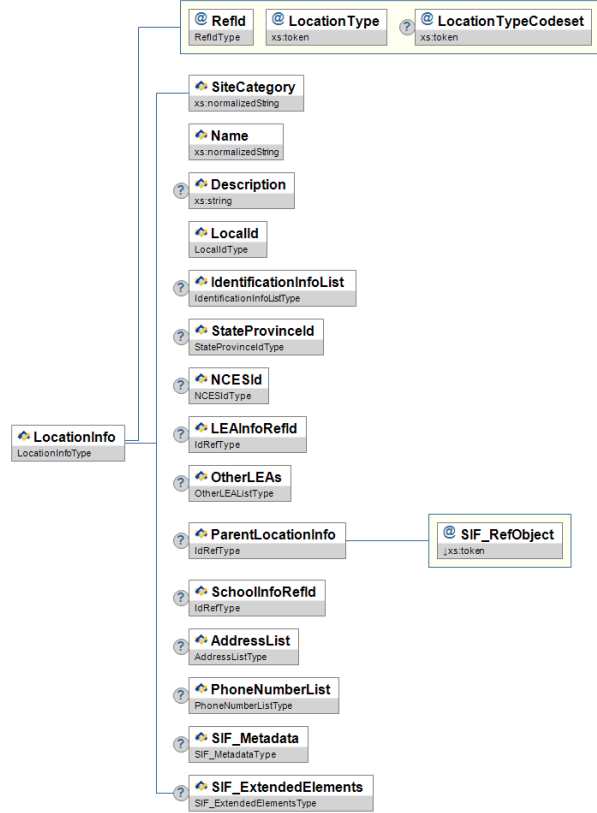


Figure 3.8.17-1: LocationInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
LocationInfo				LocationInfo represents a location in a district.	
@ RefId	M			The SIF unique identifier for the location.	RefIdType
LocationType	M			Defines whether the location is a school or a non-school location.	xs:boolean
LocationTypeCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
SiteCategory	M			Specific site category. Examples Prep Site State Site Central Kitchen Warehouse Storage Central Office Other	xs:normalizedString
Name	M			Text name of the location	xs:normalizedString
Description	O			Description about the location.	xs:string
LocalId	M			The locally-assigned identifier for this location.	LocalIdType
IdentificationInfoList	O				IdentificationInfoListType
StateProvinceId	O			The state-assigned identifier for this location.	StateProvinceIdType
NCESId	O			The NCES-assigned identifier for this location.	NCESIdType
LEAInfoRefId	O			The Id (GUID) that identifies the district.	IdRefType
OtherLEAs	O			The Id (GUID) of an other related education agency, such as a regional service agency.	OtherLEAListType
ParentLocationInfo	O			A LocationInfo instance could be related to another LocationInfo. This element will help create that relation.	IdRefType
@ SIF_RefObject	M			The name of the object referenced.	values: LocationInfo
SchoolInfoRefId	O			The RefId of a corresponding SchoolInfo object.	IdRefType
AddressList	O			This element has the LocationInfo address information.	AddressListType
PhoneNumberList	O			The location's phone numbers.	PhoneNumberListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.17.1: LocationInfo

```

JSON XML
<LocationInfo RefId="D3E34B359075101A8C3D06AA01A1652" LocationType="School">
  <SiteCategory>Other</SiteCategory>
  <Name>Lincoln High School</Name>
  <LocalId>2343L88</LocalId>
  <LEAInfoRefId>7344846288862AAA52948C9380172276</LEAInfoRefId>
  <OtherLEAs>

```

Example 3.8.17.1: LocationInfo

3.8.18 Payment

This object complements the Billing object, and contains information about the payment of a Billing object.

SIF_Events are reported for this object.

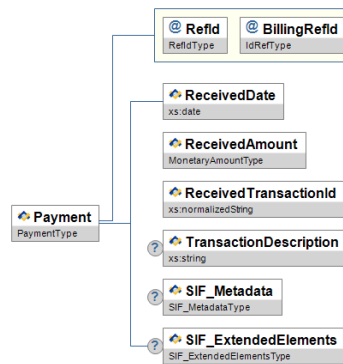


Figure 3.8.18-1: Payment

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
Payment				This object complements the Billing object, and contains information about the payment of a Billing object.	
@ RefId	M			GUID for this transaction. The application that owns this object is responsible for generating this unique Id.	RefIdType
@ BillingRefId	M			A pointer back to the Billing object.	IdRefType
ReceivedDate	M			Date payment was received.	xs:date
ReceivedAmount	M			Amount received.	MonetaryAmountType
ReceivedTransactionId	M			Memo transaction Id from other vendor software.	xs:normalizedString
TransactionDescription	O			Description of the transaction.	xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.18-1: Payment

```

JSON
XML
<?xml version="1.0" encoding="UTF-8" ?>
<Payment RefId="0244983ABC3458FED875493AB3812345" BillingRefId="Ch12345678907463FED230759D123">
  <ReceivedDate>1999-10-20</ReceivedDate>
  <ReceivedAmount Currency="USD"="50.00">50.00</ReceivedAmount>
  <ReceivedTransactionId>10523</ReceivedTransactionId>
  <TransactionDescription>
  </Payment>
  
```

Example 3.8.18-1: Payment

3.8.19 Purchasing

This object provides information down to the line item level for requisitions and purchase orders.

SIF_Events are reported for this object.

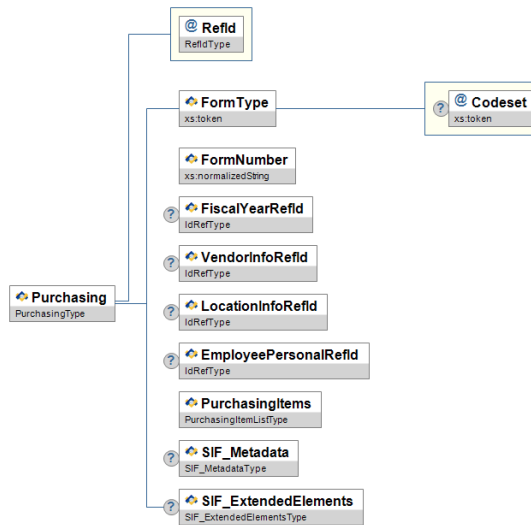


Figure 3.8.19-1: Purchasing

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
Purchasing				This object provides information down to the line item level for requisitions and purchase orders.	
@ RefId	M			Transaction GUID for this purchasing activity. The application that owns this object and is responsible for generating this unique Id.	RefIdType
FormType	M			Type of purchasing document.	xs:string
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:string
FormNumber	M			Requisition or PO number.	xs:normalizedString
FiscalYearRefId	O			Reference to fiscal year for the transaction.	IdRefType
VendorInfoRefId	C			This object references the VendorInfo object and should be considered mandatory when FormType="PO"	IdRefType
LocationInfoRefId	O			The building Id for this purchasing activity.	IdRefType
EmployeePersonalRefId	O			The employee Id for the originator of this purchasing activity.	IdRefType
PurchasingItems	M			Contains information about the item being purchased.	PurchasingItemListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.19-1: Purchasing

```

JSON
XML
<Purchasing RefId="ED12345F0A84972758C28AA349003721">
  <FormType>PO</FormType>
  <FormNumber>90234</FormNumber>
  <FiscalYearRefId>76AE29873498A8</FiscalYearRefId>
  <VendorInfoRefId>8012345F0A84972758C28AA349003723</VendorInfoRefId>
  <LocationInfoRefId>8012345F0A84972758C28AA349003722</LocationInfoRefId>

```

Example 3.8.19-1: Purchasing

3.8.20 TimeWorked

This object contains information about the time worked by an employee on a specific job.

SIF_Events are reported for this object.

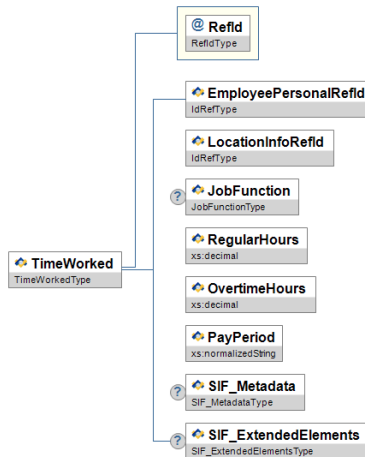


Figure 3.8.20-1: TimeWorked

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
TimeWorked				This object contains information about the time worked by an employee on a specific job.	
@ RefId	M			GUID for this object. The application that owns this object is responsible for generating this unique Id.	RefIdType
EmployeePersonalRefId	M			References associated EmployeePersonal object.	IdRefType
LocationInfoRefId	M			Site where employee actually worked. References LocationInfo object.	IdRefType
JobFunction	O			The purpose of the activities as related to students.	JobFunctionType
RegularHours	M			Regular hours worked. Enter 0 if no hours worked.	xs:decimal
OvertimeHours	M			Overtime hours worked. Enter 0 if no overtime hours worked.	xs:decimal
PayPeriod	M			Pay period hours were worked in.	xs:normalizedString
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.20-1: TimeWorked

JSON XML

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<TimeWorked RefId="CD01254884E854687F45670ACD34653" ?>
  <EmployeePersonalRefId>CD01254884E854687F45670ACD3465</EmployeePersonalRefId>
  <LocationInfoRefId>FP01254884E854687F45670ACD3465</LocationInfoRefId>
  <JobFunction>
    <Code>1099</Code>
  </JobFunction>
</TimeWorked>
```

Example 3.8.20-1: TimeWorked

3.8.21 VendorInfo

This object contains basic vendor information.

SIF_Events are reported for this object.

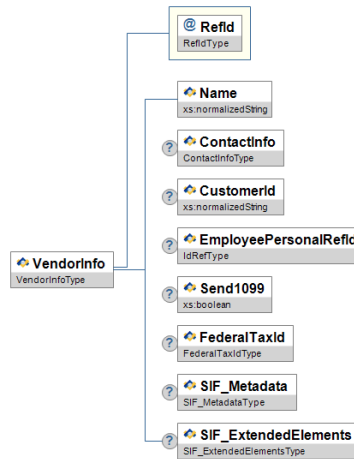


Figure 3.8.21-1: VendorInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
VendorInfo				This object contains basic vendor information.	
@ RefId	M			Vendor Id.	RefIdType
Name	M			Name of the vendor.	xs:normalizedString
ContactInfo	O			Contact information.	ContactInfoType
CustomerId	O			Account number or other Id.	xs:normalizedString
EmployeePersonalRefId	O			When the vendor and employee are the same, it may be appropriate to link the EmployeePersonal records to the VendorInfo when tracking expense and tuition reimbursement. This is the GUID of the associated EmployeePersonal object.	IdRefType
Send1099	O			Send 1099 to this vendor.	xs:boolean
FederalTaxId	O			Taxpayer identification number/Federal tax Id for this vendor.	FederalTaxIdType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.21-1: VendorInfo

```

JSON XML
<VendorInfo RefId="AB347056854CF45678DD348F564E22">
  <Name>SIC School Supply</Name>
  <ContactInfo>
    <Name Type="04">
      <LastName>Romeo</LastName>
      <FirstName>James</FirstName>
    </Name>
  </ContactInfo>
</VendorInfo>
    
```

Example 3.8.21-1: VendorInfo

3.8.22 W4

This object contains the information completed on a W4 tax form. (Please note that this object is defined to represent the current deductions allowances for the employee; this is not intended to circumvent or replace IRS reporting standards but to facilitate movement of W4 data from system to system within the LEA.)

SIF_Events are reported for this object.

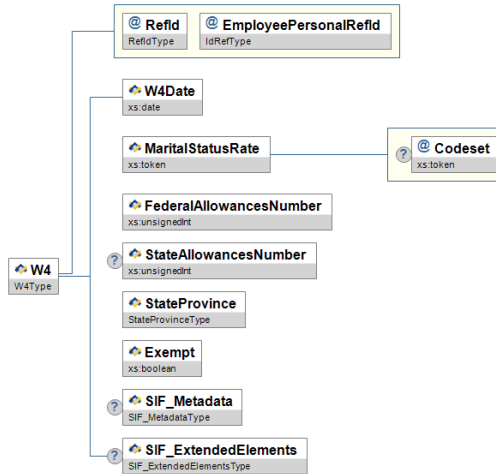


Figure 3.8.22-1: W4

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
W4				This object contains the information completed on a W4 tax form. (Please note that this object is defined to represent the current deductions allowances for the employee; this is not intended to circumvent or replace IRS reporting standards but to facilitate movement of W4 data from system to system within the LEA.)	
RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
EmployeePersonalRefId	M			This is the GUID that points to the employee represented in the EmployeePersonal object.	IdRefType
W4Date	M			Date W4 was completed.	xs:date
MaritalStatusRate	M			This denotes the current marital status of the employee	xs:token
Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
FederalAllowancesNumber	M			Number of federal allowances.	xs:unsignedInt
StateAllowancesNumber	O			Number of state allowances.	xs:unsignedInt
StateProvince	M			State of residence.	StateProvinceType
Exempt	M			Is this employee exempt from federal and state exemptions?	xs:boolean
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.8.22-1: W4

```

JSON XML
<W4 RefId="359D75101AD0A97ABC3DAD0A8103A2" EmployeePersonalRefId="D0596EFD512EFD0A253764D0A569721">
  <W4Date>1998-12-01</W4Date>
  <MaritalStatusRate>Married</MaritalStatusRate>
  <FederalAllowancesNumber>5</FederalAllowancesNumber>
  <StateAllowancesNumber>3</StateAllowancesNumber>
  <StateProvince>NY</StateProvince>
</W4>
    
```

Example 3.8.22-1: W4

3.9 Identity Management Project Team

Local Education Authorities (LEAs) across the globe are dealing with the issues of managing users across a rapidly increasing number of applications. Many of these applications within the educational enterprise interface directly with learners, parents, and teachers. Each new application requires digital identity and profile data for operational purposes. A significant burden is placed on individual users to manage and secure their login credentials across applications. In many instances, users end up having to remember many user names and passwords and deal with profile information that is not consistent or up to date across the various applications that they access.

There is a great need to provide a standards-based solution for identity management and role-based security within the education industry. While many standards have been developed to solve this problem, there is no common profile within education that suppliers and end users can adopt. The SIFA has been solving issues of interoperability like this for many years. Educational applications built to support the SIF standard can also benefit from a set of profiles developed by SIFA that are targeted at solving the needs of sharing and using digital identities within an educational enterprise.

3.9.1 IdMApplication

A software application or system for which access is controlled through the identity management system.

SIF_Events are reported for this object.

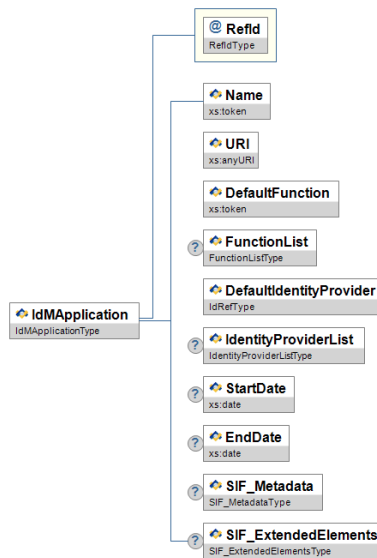


Figure 3.9.1-1: IdMApplication

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
IdMApplication				A software application or system for which access is controlled through the identity management system.	
@ RefId	M			GUID that uniquely identifies an instance of this object.	RefIdType
Name	M			A short name for the application	xs:token
URI	M			The URI of the application.	xs:anyURI
DefaultFunction	M			A short description of the default or main function of the application.	xs:token
FunctionList	O			A list of short descriptions of other functions the application performs.	FunctionListType
DefaultIdentityProvider	M			The RefID of the application that is used as the Identity Provider (i.e., authentication provider) for the framework.	IdRefType
IdentityProviderList	O			If the application can use multiple Identity Providers (authentication providers) to authenticate the user, for example Google directory service, LDAP, AD, etc., there could be multiple such providers in this list.	IdentityProviderListType
StartDate	O			Start date of the association of this application to the Identity Provider application.	xs:date
EndDate	O			End date of the association of this application to the Identity Provider application.	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.9.1-1: IdMApplication

```

JSON XML
<IdMApplication RefId="F81078BA3261545A319059378265CE01">
  <Name>MyApplication/Name</Name>
  <URI>https://myapplication.com/<URI>
  <DefaultFunction>Student_Information/<DefaultFunction>
  <DefaultIdentityProvider>081078BA3261545A319059378265CE04</DefaultIdentityProvider>
  <SIF_Metadata>2201-01-01</SIF_Metadata>
</IdMApplication>
    
```

Example 3.9.1-1: IdMApplication

3.9.2 IdMAuthentication

This object establishes an authentication map between the Organization-User and the Identity Provider (IDP) LoginId. The profile will be used primarily to provision/deprovision users from the SIS/HR systems to the IDP.

SIF_Events are reported for this object.

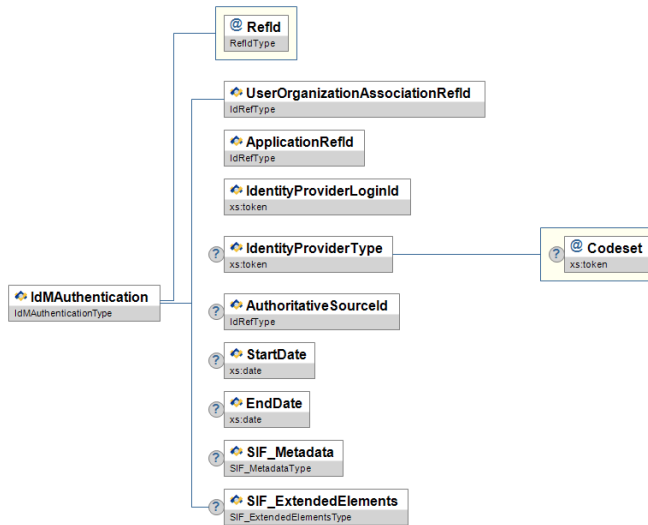


Figure 3.9.2-1: IdMAAuthentication

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
IdMAAuthentication				This object establishes an authentication map between the Organization-User and the Identity Provider (IDP) LoginId. The profile will be used primarily to provision/deprovision users from the SIS/HR systems to the IDP.	
RefId	M			GUID that uniquely identifies an instance of this object.	RefIdType
UserOrganizationAssociationRefId	M			The RefId for the UserOrganizationAssociation SIF object if the authentication returns "true".	IdRefType
ApplicationRefId	M			RefId of the Identity Provider application.	IdRefType
IdentityProviderLoginId	M			The login for the Organization-User within the Identity Provider application.	xs.token
IdentityProviderType	O			An enumeration that defines how the authentication can be performed and exchanged.	xs.token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs.token
AuthoritativeSourceId	O			The RefId of the Authoritative Application creating this association.	IdRefType
StartDate	O			Start date of the association of this authentication instance to the Identity Provider application.	xs.date
EndDate	O			End date of the association of this authentication instance to the Identity Provider application.	xs.date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.9.2-1: IdMAAuthentication

```

JSON XML
<IdMAAuthentication RefId="FE10788A3261545A319059378265CE01">
  <UserOrganizationAssociationRefId>AC30788A3261545A319059378265CE02</UserOrganizationAssociationRefId>
  <ApplicationRefId>AC30898A3261545A319059378265CE02</ApplicationRefId>
  <IdentityProviderLoginId>myId</IdentityProviderLoginId>
  <StartDate>2001-09-05</StartDate>
</IdMAAuthentication>
    
```

Example 3.9.2-1: IdMAAuthentication

3.9.3 IdMAuthorization

This object establishes a role/permission map between the Organization-User and the downstream applications' roles and permissions. This will be used primarily to provision/deprovision users from the SIS/HR systems to other applications.

SIF_Events are reported for this object.

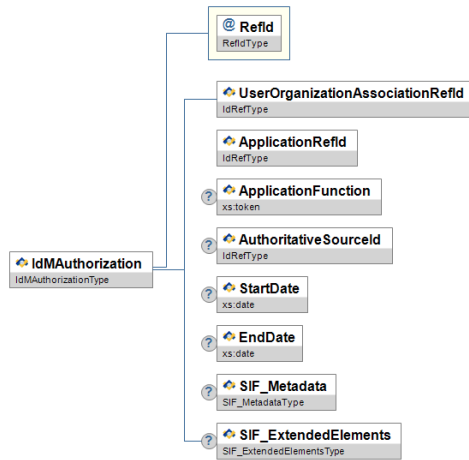


Figure 3.9.3-1: IdMAuthorization

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
IdMAuthorization				This object establishes a role/permission map between the Organization-User and the downstream applications' roles and permissions. This will be used primarily to provision/deprovision users from the SIS/HR systems to other applications.	
@ RefId	M			GUID that uniquely identifies an instance of this object.	RefIdType
UserOrganizationAssociationRefId	M			The RefId for the SIF UserOrganization/Association object which defines the Organization-User to be authorized.	IdRefType
ApplicationRefId	M			RefId of the Identity Provider application.	IdRefType
ApplicationFunction	O			The role for the OrganizationUser to be assigned for the target application. The consuming application must be able to honor such role.	xs:token
AuthoritativeSourceId	O			The RefId of the Authoritative Application creating this association.	IdRefType
StartDate	O			Start date of the association of this authorization instance to the Identity Provider application.	xs:date
EndDate	O			End date of the association of this authorization instance to the Identity Provider application.	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.9.3-1: IdMAuthorization

```

JSON XML
<IdMAuthorization RefId="FE10788A3261545A319059378265CE01">
  <UserOrganizationAssociationRefId=AC30788A3261545A319059378265CE02/>
  <ApplicationRefId=AC30898A3261545A319059378265CE02/>
  <StartDate=2011-09-26/>
</IdMAuthorization>
    
```

Example 3.9.3-1: IdMAuthorization

3.9.4 UserOrganizationAssociation

This object associates a user of computer software applications to an organization.

SIF_Events are reported for this object.

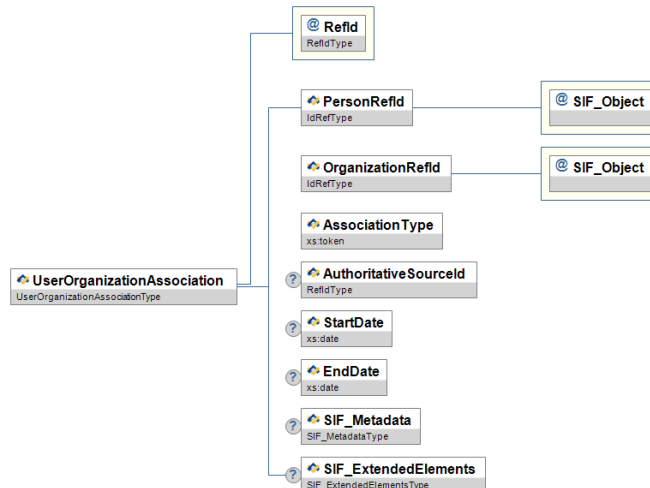


Figure 3.9.4-1: UserOrganizationAssociation

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
UserOrganizationAssociation				This object associates a user of computer software applications to an organization.	
@ RefId	M			GUID that uniquely identifies an instance of this object.	RefIdType
PersonRefId	M			RefId of the person or any other SIF role object instance (e.g., student) of the person.	IdRefType
@ SIF_Object	M			The name of the SIF object that is being referenced by the payload of this element.	
OrganizationRefId	M			RefId of the organization.	IdRefType
@ SIF_Object	M			The name of the SIF object that is being referenced by the payload of this element.	
AssociationType	M			The type of association. For example, if the user is a member of the organization then the type would be Member.	xs:token
AuthoritativeSourceId	O			The RefID of the Authoritative Application creating this association	RefIdType
StartDate	O			Start date of the association.	xs:date
EndDate	O			End date of the association.	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.9.4-1: UserOrganizationAssociation

```

JSON XML
<UserOrganizationAssociation RefId="FE1078BA3261545A319059378245CE01">
  <PersonRefId SIF_Object="StaffPersonnel">FE1078BA3261545A319059378245CE01</PersonRefId>
  <OrganizationRefId SIF_Object="SchoolInfo">FE1078BA3261545A319059378245CE01</OrganizationRefId>
  <AssociationType>Associate Member</AssociationType>
  <StartDate>2001-09-05</StartDate>
</UserOrganizationAssociation>
    
```

Example 3.9.4-1: UserOrganizationAssociation

3.10 Infrastructure Working Group

In addition to SIF messages and strictly infrastructure-related objects like `sif_zonestatus`, the Infrastructure Working Group occasionally defines data model objects that either do not fall neatly within the purview of currently existing data model working groups (e.g. the Authentication object) or that can be provided by the ZIS and agents alike—typically metadata about a zone as opposed to data directly originating from the K-12 instructional and administrative environment (e.g. `sif_LogEntry`).

3.10.1 Authentication

The Authentication object allows a system that stores usernames and/or passwords to share them with other applications through SIF. The provider of the Authentication object may only support providing a username or a password, or it may support both.

The Authentication object is also able to transmit a user's network identity through SIF. If the user has an account in a network directory system that supports LDAP, the user's distinguishedName or username is shared to uniquely identify the user to applications that support LDAP or native network authentication options.

Details of how to implement the password element are included below the object definition.

SIF_Events are reported for this object.

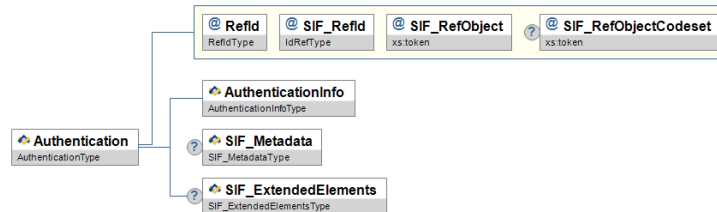


Figure 3.10.1-1: Authentication

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
Authentication				The Authentication object allows a system that stores usernames and/or passwords to share them with other applications through SIF. The provider of the Authentication object may only support providing a username or a password, or it may support both. The Authentication object is also able to transmit a user's network identity through SIF. If the user has an account in a network directory system that supports LDAP, the user's distinguishedName or username is shared to uniquely identify the user to applications that support LDAP or native network authentication options.	
@ RefId	M			The SIF RefId that uniquely identifies this authentication object.	RefIdType
@ SIF_RefId	M			The SIF RefId of a student or staff member	IdRefType
@ SIF_RefObject	M			The type of SIF object that the SIF_RefId attribute identifies.	xs:token
@ SIF_RefObjectCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
AuthenticationInfo	M			The authentication information for one system.	AuthenticationInfoType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.10.1-1: Authentication

3.10.1.1 Password Implementation Details

While Authentication objects transported over SIF HTTPS are typically secure in transit, SIF objects are often stored in logs and databases. If the network infrastructure is not secure, the passwords could be subject to snooping from system users. Because of this, the design of the Authentication object requires that passwords never be transmitted in plain text, to prevent casual viewing. The design of this object allows passwords to be securely encrypted using a variety of encryption algorithms.

Passwords in the Authentication object can be shared in one of three ways as documented in the sections below.

3.10.1.1.1 Encoded Text

Sharing a password using encoded text is a very insecure method, because it uses a well-known algorithm and the value is not encrypted. The only merit of using this method is that the password is not readable as plain text, and thus deters any casual attempt to read a password. To share passwords in this manner, the following steps must be followed:

1. The publishing agent creates a `password` element with the algorithm set to `base64`.
2. The agent encodes the Unicode representation of the password using the UTF-8 encoding.
3. The resulting binary value is then base64 encoded.
4. Write the result as the payload of the `password` element.

3.10.1.1.2 Hashed Text

Sharing a hashed text version of a password means that the original password is not shared. Clear text passwords are not retrievable from values stored as hashes. These hashed values can only be used to verify passwords input by a user.

What is shared is a cryptographically secure hash of the password. This hash allows other applications to verify a user's password when s/he logs in by comparing the hash value, not the original password. To share passwords in this manner, the following steps must be followed:

1. The publishing agent creates a `password` element with the algorithm set to `md5` or `sha1`.
2. The agent encodes the Unicode representation of the password using the UTF-8 encoding.
3. Hash the resulting binary value with the chosen hash algorithm.
4. Encode the binary result using base64 encoding.
5. Write the result as the payload of the `password` element.

3.10.1.1.3 Encrypted Text

Sharing a password using encrypted text can be very secure. The key being used to encrypt the data should be known only to the applications. The `keyname` attribute is used to allow agents to uniquely identify keys that are being used. To share passwords in this manner, the following steps must be followed:

1. The publishing agent creates a `password` element with the algorithm set to `DES`, `TripleDES`, `RC2`, or `AES`.
2. The agent encodes the Unicode representation of the password using the UTF-8 encoding.
3. Generate a cryptographically secure Initialization Vector (IV).
4. Configure the encryption algorithm to use a cipher mode of CBC.
5. Configure the encryption algorithm to use a block size of 64 bits (8 bytes).
6. Configure the encryption algorithm to use the generated IV.
7. Configure the encryption algorithm to use the specified key for encryption.
8. Configure the encryption algorithm to use PKCS#7/PKCS#5 padding mode.
9. Encrypt the binary representation of the password that was generated in step 2.
10. Encode the binary result using base64 encoding.
11. Write the result as the payload of the `password` element.

3.10.1.1.4 Example Keys

The XML in the Authentication example can be used to verify an agent's implementation of any of the published algorithms. The password being shared for the sake of the example is `z&e&r&t`. High-Unicode characters are being used in this example to validate proper encoding. The actual Unicode characters are: U+00BF, U+0073, U+00E8, U+0063, U+0072, U+00E8, U+0074.

The encryption keys being used are as follows (in base 64 format)

Key Name	Key (in base64 format)
64-BIT_KEY	dW7SKzwdn0Q=
128-BIT_KEY	TcdilmUzsqybmegl2n2pA==
192-BIT_KEY	mEChXM0+IOMWRwam7yUEE59jbO9O0Z4

NOTE: Real-world implementations of password sharing should use keys other than the ones used for this documentation. These keys are provided for example's sake only. Keys should be generated using a secure cryptographic key generator.

JSON
XML

```

<Authentication RefId="4286194F42ED43C18E2F0A27C48F86" SIP_RefId="23808571E4D645C3882A3B52E5349925" SIP_RefObj="StudentPersonal">
  <AuthenticationInfo>
    <System Type="Network">NetworkSystem</System>
    <Username>User01</Username>
    <DistinguishedName>cn=User01, cn=Users, dc=sifinfo, dc=org/<DistinguishedName>
    <Password>[...]
```

Example 3.10.1.1-1: Authentication

3.11 Instructional Services Task Force

The goal of Instructional Services Task Force is to create, design and advocate a set of specifications that feature data objects which will advance interoperability standards of information needed in instruction and educational service delivery in the classroom and instructional settings.

3.11.1 Activity

The work assigned to students, an educational event planned by a teacher to deliver a particular educational concept or skill.

SIF_Events are reported for this object.

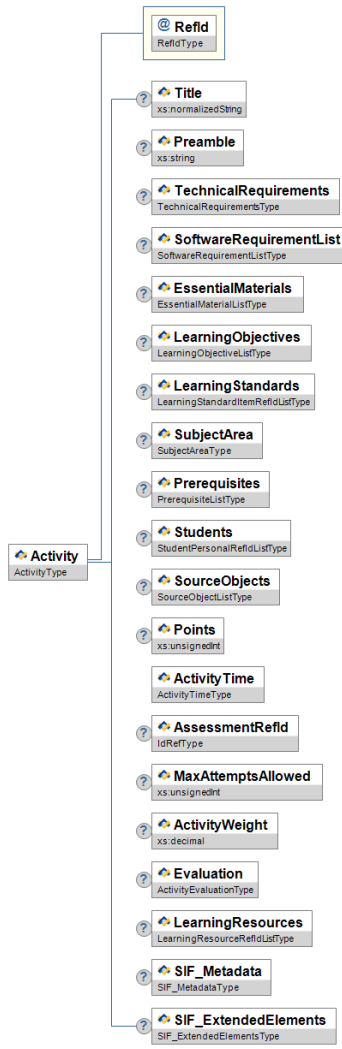


Figure 3.11.1-1: Activity

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
Activity				The work assigned to students, an educational event planned by a teacher to deliver a particular educational concept or skill.	
@ RefId	M				RefIdType
Title	O			Descriptive name of the activity.	xs:normalizedString
Preamble	O			Description and context for the activity.	xs:string
TechnicalRequirements	O			Operating system, network, and other technical requirements for the activity, if applicable.	TechnicalRequirementsType
SoftwareRequirementList	O			Contains information about required software.	SoftwareRequirementListType
EssentialMaterials	O			Essential materials required to engage in this activity.	EssentialMaterialListType
LearningObjectives	O			Educational objectives of the activity.	LearningObjectiveListType
LearningStandards	O			Associated LearningStandardItem objects.	LearningStandardItemRefIdListType
SubjectArea	O				SubjectAreaType
Prerequisites	O			Skills or competencies the student must have to engage in activity.	PrerequisiteListType
Students	O			Links to any students or group or category of students that this activity is for.	StudentPersonalRefIdListType
SourceObjects	O			Source objects assigned to students.	SourceObjectListType
Points	O			Number of possible points for an activity.	xs:unsignedInt
ActivityTime	M			Time structures for the activity.	ActivityTimeType
AssessmentRefId	O			Link to the SIF Assessment object containing the evaluation information for this activity.	IdRefType
MaxAttemptsAllowed	O			How many tries allowed.	xs:unsignedInt
ActivityWeight	O			The percentage weight of the activity during the particular course or term.	xs:decimal
Evaluation	O			Field for non-numeric types of grading and evaluation such as "narrative."	ActivityEvaluationType
LearningResources	O			Learning resources that support this activity.	LearningResourceRefIdListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.1: Activity

```

JSON XML
<Activity RefId="C2781FC163485F8E0F34P18A0493A" xmlns="en">
  <Title>Shakespeare Essay - Much Ado About Nothing</Title>
  <Preamble>This is a very funny comedy - students should have passing familiarity with Shakespeare</Preamble>
  <LearningStandards>
    <LearningStandardItemRefId>9D815CEA82C54F649C37D0A0CAE2D04</LearningStandardItemRefId>
  </LearningStandards>
</Activity>
    
```

Example 3.11.1.1: Activity - Example 1

```

JSON XML
<Activity RefId="C2781FC163485F8E0F34P18A0493A" xmlns="en">
  <Title>Shakespeare Essay - Much Ado About Nothing</Title>
  <Preamble>This is a very funny comedy - students should have passing familiarity with Shakespeare</Preamble>
  <SoftwareRequirementList>
    <SoftwareRequirement>
      <SoftwareTitle>Flash Player</SoftwareTitle>
    </SoftwareRequirement>
  </SoftwareRequirementList>
</Activity>
    
```

Example 3.11.1.2: Activity - Example 2

3.11.2 Assignment

The work assigned to a student, which can comprise of learning resources, activities, and assessments. It must have a student and a time attached to it.

SIF_Events are reported for this object.

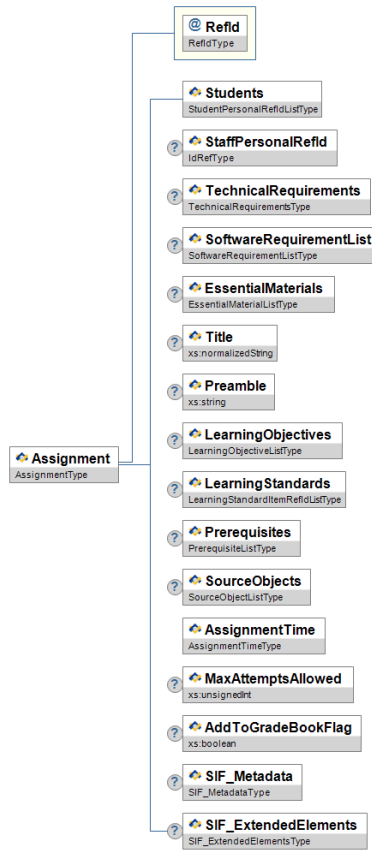


Figure 3.11.2-1: Assignment

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
Assignment				The work assigned to a student, which can comprise of learning resources, activities, and assessments. It must have a student and a time attached to it.	
@ RefId	M			GUID assigned to assignment.	RefIdType
Students	M			Students given this assignment.	StudentPersonalRefIdListType
StaffPersonalRefId	O			GUID assigned to the educator who gave the assignment.	IdRefType
TechnicalRequirements	O			Operating system, network, and other technical requirements for the activity, if applicable.	TechnicalRequirementsType
SoftwareRequirementList	O			Contains information about required software.	SoftwareRequirementListType
EssentialMaterials	O			Essential materials required to engage in the assignment.	EssentialMaterialListType
Title	O			Descriptive name of the assignment.	xs:normalizedString
Preamble	O			Description and context for the assignment.	xs:string
LearningObjectives	O			Educational objectives of the assignment.	LearningObjectiveListType
LearningStandards	O			Associated LearningStandardItem objects.	LearningStandardItemRefIdListType
Prerequisites	O			Skills or competencies the student must have to engage in assignment.	PrerequisiteListType
SourceObjects	O			Source objects assigned to students.	SourceObjectListType
AssignmentTime	M			Time structures for the assignment.	AssignmentTimeType
MaxAttemptsAllowed	O			The number attempts a student may make on this assignment. Assumed to be unlimited if omitted.	xs:unsignedInt
AddToGradeBookFlag	O			Flag to prompt grade book processing.	xs:boolean
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.2-1: Assignment

```

JSON XML
<Assignment RefId="0E072A7E2AD48778A93FAF83C94839E" xmlns="en">
  <StudentId>
    <StudentPersonalRefId>687F85529E5F0B6A0949FD08E12ACC3</StudentPersonalRefId>
  </StudentId>
  <StaffPersonalRefId>994FE59529E5F0B6A0949FD08E12ACC3</StaffPersonalRefId>
  <TechnicalRequirement>

```

Example 3.11.2.1: Assignment - Example 1

```

JSON XML
<Assignment RefId="0E072A7E2AD48778A93FAF83C94839E" xmlns="en">
  <StudentId>
    <StudentPersonalRefId>687F85529E5F0B6A0949FD08E12ACC3</StudentPersonalRefId>
  </StudentId>
  <StaffPersonalRefId>994FE59529E5F0B6A0949FD08E12ACC3</StaffPersonalRefId>
  <TechnicalRequirement>

```

Example 3.11.2.2: Assignment - Example 2

3.11.3 ContentCatalog

The curriculum responder makes available a catalog of relevant instructional assets in this format. This detail should succinctly identify curriculum whether it is an assessment, learning resource, activity or lesson.

SIF_Events are not reported for this object.

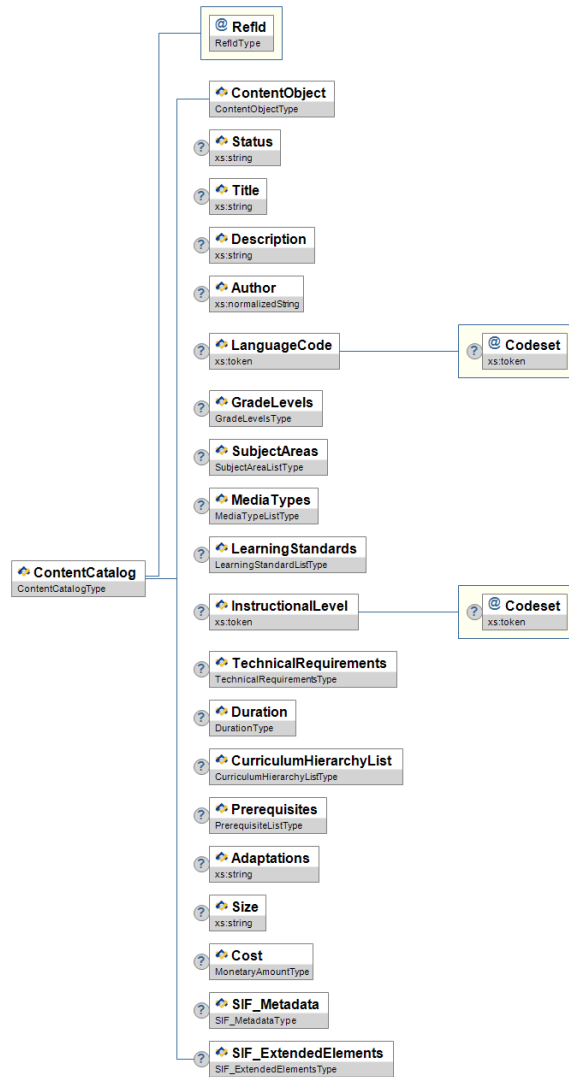


Figure 3.11.3-1: ContentCatalog

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
ContentCatalog				This object contains information related to learning resources that can be searched for and retrieved from content repositories.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
ContentObject	M			The learning object.	ContentObjectType
Status	O			Describes availability status of resource, e.g. "checked out."	xs:string
Title	O			Title of the resource, e.g., "The Civil War ..."	xs:string
Description	O			Description of the resource, e.g., "This textbook is intended for grade 4 social studies students and addresses..."	xs:string
Author	O			Name of individual, organization or company that created the resource	xs:normalizedString
LanguageCode	O			The language used by the content to communicate to the Student	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
GradeLevels	O			A common element used to specify the collection of grade levels supported.	GradeLevelsType
SubjectAreas	O			A list of subject areas.	SubjectAreaListType
MediaTypes	O			Resource media types	MediaTypeListType
LearningStandards	O			This element contains information related to curriculum standards statements "standards" or "benchmarks" or the like within the document.	LearningStandardListType
InstructionalLevel	O			An indication of the general nature and difficulty of instruction provided.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
TechnicalRequirements	O			Operating system, network, and other technical requirements for the activity, if applicable.	TechnicalRequirementsType
Duration	O			Time required to complete the activity.	DurationType
CurriculumHierarchyList	O				CurriculumHierarchyListType
Prerequisites	O			Skills or competencies the student must have to engage in activity.	PrerequisiteListType
Adaptations	O			Adaptations necessary for target students (508)	xs:string
Size	O			The size of the learning content objects.	xs:string
Cost	O			The price of the object requested	MonetaryAmountType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.3-1: ContentCatalog

```

JSON [ ] XML [ ]
<ContentCatalog RefId="359075101AD0A907ABC3DAD0A85103A2" xml:lang="en">
  <ContentObject>
    <Location ReferenceType="URI">http://myserver.mydomain.com/content/civil_war_photos.pdf</Location>
  </ContentObject>
  <Status>Available</Status>
  <Title>The Civil War in Photos</Title>

```

Example 3.11.3-1: ContentCatalog

3.11.4 CurriculumStructure

An object designed to contain instructional objects such as units, lessons, activities, and assessments—or other containers—joined together under a particular topic and/or duration.

SIF_Events are reported for this object.

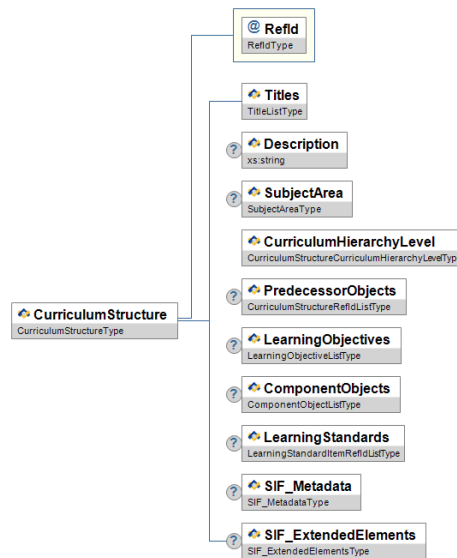


Figure 3.11.4-1: CurriculumStructure

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
CurriculumStructure				An object designed to contain instructional objects such as units, lessons, activities, and assessments—or other containers—joined together under a particular topic and/or duration.	
@ RefId	M			GUID for this particular object.	RefIdType
Titles	M				TitleListType
Description	O			Description of this curriculum object	xs:string
SubjectArea	O				SubjectAreaType
CurriculumHierarchyLevel	M			Describes the position of this object in the curriculum hierarchy.	CurriculumStructureCurriculumHierarchyLevelType
PredecessorObjects	O			CurriculumStructure objects directly above this one in the hierarchy tree. These are repeatable because a single object can have multiple parent levels in the hierarchy.	CurriculumStructureRefIdListType
LearningObjectives	O			Learning objectives for this object.	LearningObjectiveListType
ComponentObjects	O			Component objects, if any, that make up this object.	ComponentObjectListType
LearningStandards	O			Associated learning standards.	LearningStandardItemRefIdListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.4-1: CurriculumStructure

```

JSON XML
<CurriculumStructure RefId="8364631190f169CD8E3DF2BA2537EC88" xml:lang="en">
  <Titles>
    <Title>Cellular Concepts</Title>
  </Titles>
  <Description>Reviews basic concepts in Cellular Biology</Description>
  <SubjectArea>

```

Example 3.11.4-1: CurriculumStructure

3.11.5 LearningResource

This object contains information related to learning resources that may be used in educational settings. These include textbooks, Internet content, educational software, videos and DVDs, supplemental print material, etc.

SIF_Events are reported for this object.

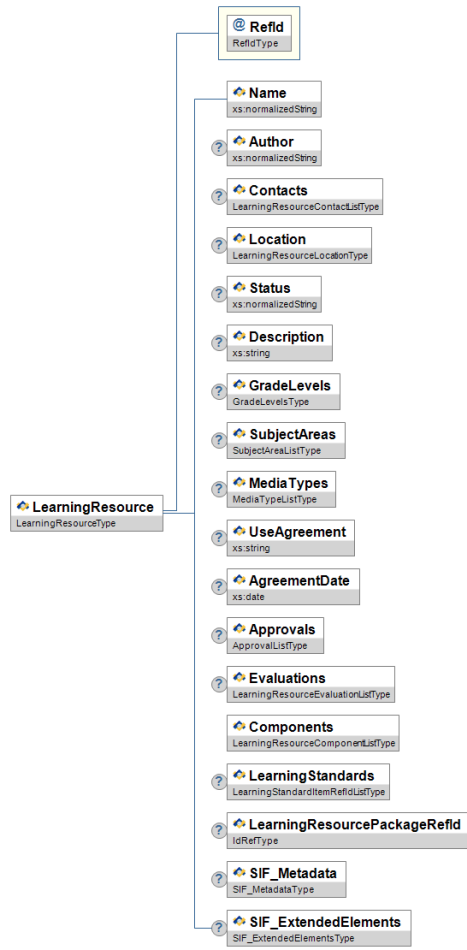


Figure 3.11.5-1: LearningResource

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
LearningResource				This object contains information related to learning resources that may be used in educational settings. These include textbooks, Internet content, educational software, videos and DVDs, supplemental print material, etc.	
@ RefId	M			GUID assigned to this LearningResource.	RefIdType
Name	M			Name of learning resource.	xs:normalizedString
Author	O		000696 https://ceds.ed.gov/element/000696	Name of organization or company that created the resource.	xs:normalizedString
Contacts	O			Contains contact information about resource authors.	LearningResourceContactListType
Location	O			Description of location of resource, i.e. location in library or URL, community resource, outside resource supplier.	LearningResourceLocationType
Status	O			Describes availability status of resource, e.g. "checked out."	xs:normalizedString
Description	O		000697 https://ceds.ed.gov/element/000697	Description of the resource, e.g., "This textbook is intended for grade 4 social studies students and addresses..."	xs:string
GradeLevels	O				GradeLevelType
SubjectAreas	O				SubjectAreaListType
MediaTypes	O			Resource media types.	MediaTypeListType
UseAgreement	O			Describes terms of use for resource.	xs:string
AgreementDate	O			A date that defines the date of agreement.	xs:date
Approvals	O			Authorizations to use this resource. For example, this resource may be included as part of the district's standard curriculum model.	ApprovalListType
Evaluations	O			Evaluations/review of the resource.	LearningResourceEvaluationListType
Components	M			Lesson or activity-sized portions of a resource.	LearningResourceComponentListType
LearningStandards	O			References to LearningStandardItems.	LearningStandardItemRefIdListType
LearningResourcePackageRefId	O			Reference to a LearningResourcePackage, a transport envelope for teaching and learning object files.	IdRefType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementListType

Table 3.11.5-1: LearningResource

JSON XML

```
<LearningResource RefId="493D88F82A37EFD08892429C6A81B5" xml:lang="en">
  <Name>World of Words (Teacher Reference Sheet)/Name
  <Author>The Kennedy Center Arts Edges/Author
  <Contact>
    <Address Type="0123">
```

Example 3.11.5-1: LearningResource

3.11.6 LearningResourcePackage

Many instructional applications in a SIF zone need to share teaching and learning objects. Curriculum planning applications, content repositories, learning management systems, etc.—all of these systems need to share instructional content utilizing the LearningResource object. The LearningResourcePackage object provides a transport envelope to move these files across the SIF zone.

Note: With SIF Implementation Specification version 2.4 the choice element depicted in the diagram below has changed. In the XSD files, the choice element used to be rendered as a sequence of optional elements. Now, in the XSD files, the choice element is rendered as an xs:choice. This may cause problems with agents that treat the choice element as two optional elements rather than a choice of one and only one of the choices.

SIF_Events are not reported for this object.

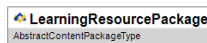


Figure 3.11.6-1: LearningResourcePackage

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
LearningResourcePackage				A wrapper for any external learning content to be transmitted across a SIF Zone.	Extension of AbstractContentPackageType
@ RefId	M			The GUID that uniquely identifies an instance of the package.	RefIdType
XMLData	C			Contains an arbitrary XML element, encoded in UTF-8.	XMLDataType
TextData	C			Contains arbitrary text, encoded in UTF-8.	TextDataType
BinaryData	C			Contains the base64Binary encoding of binary or text data not encoded in UTF-8.	BinaryDataType
Reference	C			References external content via a URL.	ReferenceType

Table 3.11.6-1: LearningResourcePackage

JSON XML

```
<LearningResourcePackage RefId="C70B6665F845F87F8D22A012A6E">
  <BinaryData MIMEType="text/plain">ab+++</BinaryData>
</LearningResourcePackage>
```

Example 3.11.6-1: LearningResourcePackage

3.11.7 LearningStandardAssociation

This object associates learning standards with particular learning resources.

SIF_Events are reported for this object.

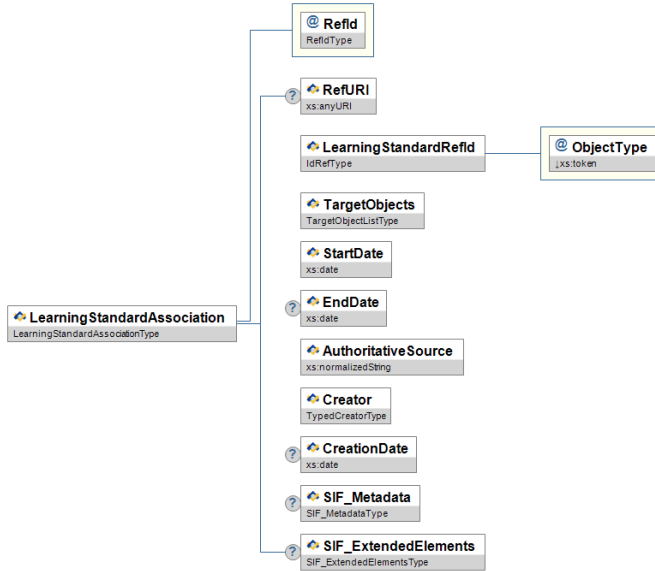


Figure 3.11.7-1: LearningStandardAssociation

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
LearningStandardAssociation				This object associates learning standards with particular learning resources.	
@ RefId	M			The Id (GUID) that uniquely identifies this LearningStandardAssociation.	RefIdType
RefURI	O			A URI that establishes uniqueness.	xs:anyURI
LearningStandardRefId	M			A RefId that identifies a Learning Standard.	IdRefType
@ ObjectType	M			Declares whether the this RefId references a LearningStandardItem or a LearningStandardDocument	values: LearningStandardItem LearningStandardDocument
TargetObjects	M			List of target objects for the learning standard linkage.	TargetObjectListType
StartDate	M			Start date of the learning standard association.	xs:date
EndDate	O			End date of the learning standard association.	xs:date
AuthoritativeSource	M			Body or organization creating this association.	xs:normalizedString
Creator	M			Name of the Creator of the relationship.	TypedCreatorType
CreationDate	O			Creation date of the relationship.	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.7-1: LearningStandardAssociation

```

JSON XML
<LearningStandardAssociation RefId="869c7088540a3350913a8f7177a207a">
  <LearningStandardRefId objectType="LearningStandardItem">DC3148359075101A8C3D0AA001A1652</LearningStandardRefId>
  <TargetObjects>
    <TargetObject objectType="LearningResource">
      <SIF_RefId>1947a8b93c29f73910f8c3827a239cb1</SIF_RefId>
    </TargetObject>
  </TargetObjects>
  <AuthoritativeSource>StuartWay</AuthoritativeSource>
</LearningStandardAssociation>
    
```

Example 3.11.7-1: LearningStandardAssociation Example

3.11.8 LearningStandardDocument

A curriculum standards document or the like published by a national, state, district, school site, professional association or other interested party. The LearningStandardDocument reflects an expectation of student work.

SIF_Events are reported for this object.

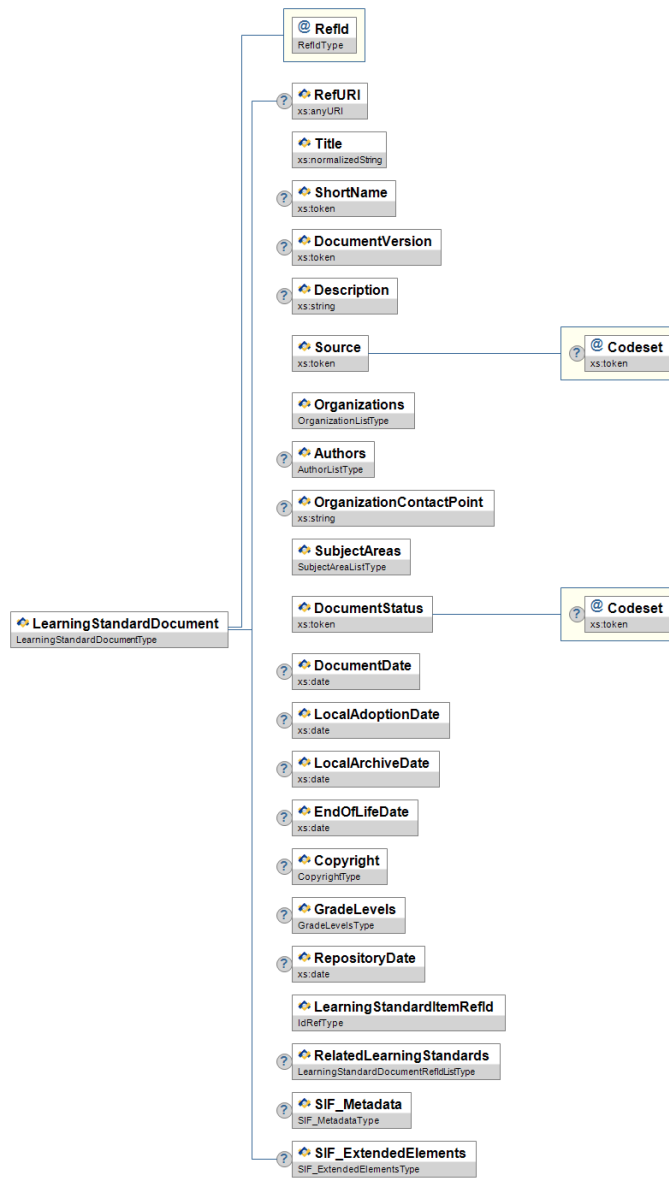


Figure 3.11.8-1: LearningStandardDocument

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
LearningStandardDocument				A curriculum standards document or the like published by a national, state, district, school site, professional association or other interested party. The LearningStandardDocument reflects an expectation of student work.	
@ RefId	M			Id for the standards document	RefIdType
RefURL	O			A URI that establishes uniqueness of the object instance.	xs:anyURI
Title	M		000694 https://ceds.ed.gov/element/000694	Name of standard document, i.e., "Washington Essential Academic Learning Requirements."	xs:normalizedString
ShortName	O			A short name for the document.	xs:token
DocumentVersion	O			Identifies the version of the document that this object instance represents. Note that new versions of documents must generate new RefIds and therefore a new object instance. This element is immutable in that once the object has been published with a value (other than blank) it must never be changed.	xs:token
Description	O			Description of the standards document.	xs:string
Source	M			Defines source of standard document. This is the descriptive type of the organization listed in organization. It serves to describe the type of the standards contained within the document.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Organizations	M			Names of organization represented by the document, i.e., "National Council of Teachers of Mathematics (NCTM)," "Washington," "Seattle School District."	OrganizationListType
Authors	O			Name of the organization that authored the standards document, i.e., "Mid-Continent Research for Education & Learning (McREL)." May be the same as "Organization" above.	AuthorListType
OrganizationContactPoint	O		000693 https://ceds.ed.gov/element/000693	A brief description of how to contact the organization maintaining the standards. It could be a phone number, email address, or URL.	xs:string
SubjectAreas	M				SubjectAreaListType
DocumentStatus	M				xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
DocumentDate	O		000700 https://ceds.ed.gov/element/000700	The date the current status was achieved.	xs:date
LocalAdoptionDate	O			The date the local organization adopted this standard document	xs:date
LocalArchiveDate	O			The date the local organization stopped using this standard document and superseded by a new document.	xs:date
EndOfLifeDate	O		000701 https://ceds.ed.gov/element/000701	This is the date that the governing organization retired this document.	xs:date
Copyright	O			Copyright for document.	CopyrightType
GradeLevels	O			SIF common GradeLevels element	GradeLevelType
RepositoryDate	O			Date document data was added to the repository	xs:date
LearningStandardItemRefId	M			Link to the first/top LearningStandardItem in the standard hierarchy	IdRefType
RelatedLearningStandards	O				LearningStandardDocumentRefIdListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.8.1: LearningStandardDocument

```

JSON XML
<LearningStandardDocument RefId="ASAS76C78917510188E7F98ED13A823" xmlns="en">
  <Title>Washington Essential Academic Learning Requirements</Title>
  <Description>This document addresses high school English Language Arts</Description>
  <Source>State</Source>
  <Organization>
    <OrganizationState of Washington</Organization>
  </Organization>
</LearningStandardDocument>
    
```

Example 3.11.8.1: LearningStandardDocument

3.11.9 LearningStandardItem

This object contains information related to curriculum standards statements "standards" or "benchmarks" or the like within the document. This object primarily focuses upon state department curriculum standards, published curriculum standards and local education agency learning standards. Each LearningStandardItem reflects an individual standard statement and may occur at several levels within a hierarchially structured document.

SIF_Events are reported for this object.

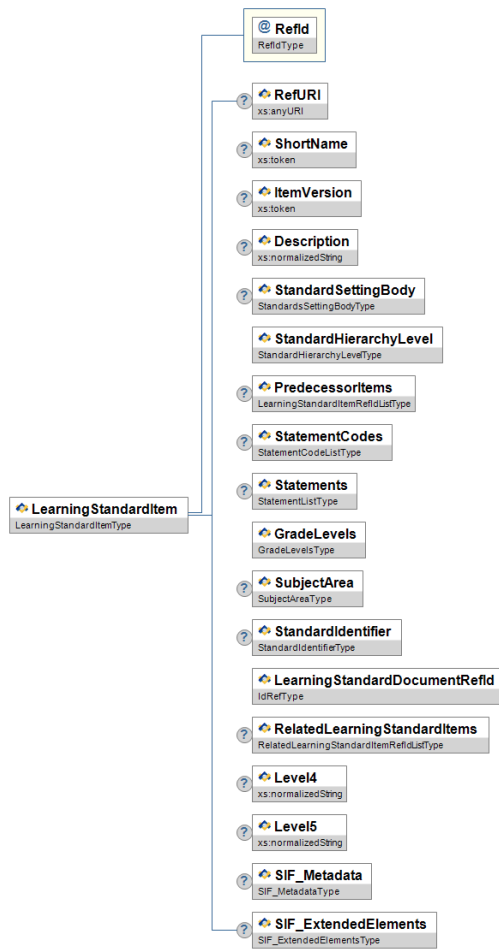


Figure 3.11.9-1: LearningStandardItem

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
LearningStandardItem				This object contains information related to curriculum standards statements "standards" or "benchmarks" or the like within the document. This object primarily focuses upon state department curriculum standards, published curriculum standards and local education agency learning standards. Each LearningStandardItem reflects an individual standard statement and may occur at several levels within a hierarchially structured document.	
RefId	M		002616 https://ceds.ed.gov/element/002616	GUID assigned to each statement at each level within the document hierarchy	RefIdType
RefURI	O		000689 https://ceds.ed.gov/element/000689	A URI that establishes uniqueness of the object instance.	xs:anyURI
ShortName	O			A short name for the item.	xs:token
ItemVersion	O		000695 https://ceds.ed.gov/element/000695	Identifies the version of the item that this object instance represents. Note that new versions of items must generate new RefIds and therefore a new object instance. This element is immutable in that once the object has been published with a value (other than blank) it must never be changed.	xs:token
Description	O		000691 https://ceds.ed.gov/element/000691	A text description of the item.	xs:normalizedString
StandardSettingBody	O			The name of the state or organization that authored and manages updates to the standards document (i.e., NCTM, Ohio Department of Education).	StandardSettingBodyType
StandardHierarchyLevel	M			Description of hierarchical level within standards tree.	StandardHierarchyLevelType
PredecessorItems	O			GUID assigned to the LearningStandardItem directly above it in the hierarchy tree. This is a repeatable element because a single granular item may relate to multiple parent levels of the hierarchy.	LearningStandardItemRefIdListType
StatementCodes	O			An alphanumeric Id code as defined by the organization to identify the statement.	StatementCodeListType
Statements	O			The text of the "standard," or "benchmark."	StatementListType
GradeLevels	M				GradeLevelType
SubjectArea	O				SubjectAreaType
StandardIdentifier	O			This element describes the unique identifier for each LearningStandard.	StandardIdentifierType
LearningStandardDocumentRefId	M			The RefId of the item's parent LearningStandardDocument.	IdRefType
RelatedLearningStandardItems	O			Container for external relationships.	RelatedLearningStandardItemRefIdListType
Level4	O			This element has been deprecated as of version 2.6. Use of this element is not recommended. This is the second-to-most granular level of the learning or performance standard associated with the grade level.	xs:normalizedString
Level5	O			This element has been deprecated as of version 2.6. Use of this element is not recommended. This is the most granular level of the learning or performance standard associated with the grade level.	xs:normalizedString
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementType

Table 3.11.9-1: LearningStandardItem

JSON XML

```
<LearningStandardItem RefId="ASD75F78917510188C7808EA123A8224" xmlns="en">
  <StandardSettingBody>
    <Country>US</Country>
    <StateProvince>OH</StateProvince>
    <SettingBodyName>Ohio Department of Education/SettingBodyName</SettingBodyName>
  </StandardSettingBody>
</LearningStandardItem>
```

Example 3.11.9-1: LearningStandardItem - Example 1

JSON XML

```
<LearningStandardItem RefId="ASD75F78917510188C7808EA123A8224" xmlns="en">
  <StandardSettingBody>
    <Country>US</Country>
    <StateProvince>OH</StateProvince>
    <SettingBodyName>Ohio Department of Education/SettingBodyName</SettingBodyName>
  </StandardSettingBody>
</LearningStandardItem>
```

Example 3.11.9-2: LearningStandardItem - Example 2

3.11.10 Lesson

A series of Activities and LearningResources tied together under a particular topic or period of time to deliver a particular educational concept or skill.

SIF_Events are reported for this object.

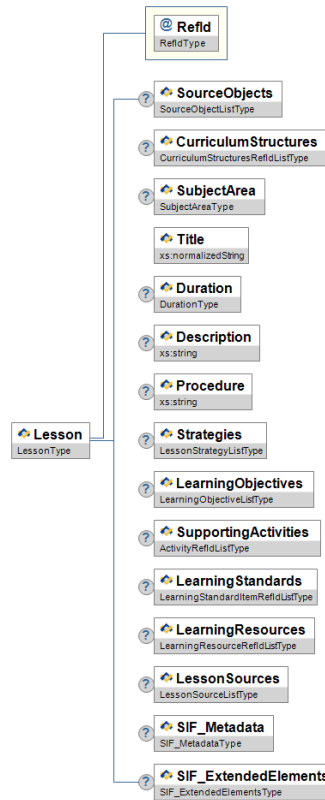


Figure 3.11.10-1: Lesson

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
Lesson				A series of Activities and LearningResources tied together under a particular topic or period of time to deliver a particular educational concept or skill.	
@ RefId	M				RefIdType
SourceObjects	O			Reference to the source objects.	SourceObjectListType
CurriculumStructures	O			GUID references to the parent CurriculumStructure object of this Lesson.	CurriculumStructuresRefIdListType
SubjectArea	O				SubjectAreaType
Title	M			Name of lesson.	xs:normalizedString
Duration	O			Desired duration of the lesson	DurationType
Description	O			Description of the lesson plan.	xs:string
Procedure	O			Text field to describe how to use and implement the lesson.	xs:string
Strategies	O			Teaching strategies used in this lesson plan.	LessonStrategyListType
LearningObjectives	O			Description of learning objective(s) for this lesson, i.e., "Student will be able to use Pythagorean Theorem."— equates to 'benchmark' or 'goal' or other terminology	LearningObjectiveListType
SupportingActivities	O			Links to Activity objects that may support the lesson	ActivityRefIdListType
LearningStandards	O			Link to associated LearningStandardItems. This allows for a single Lesson to be aligned to multiple standard statements.	LearningStandardItemRefIdListType
LearningResources	O			Links to aligned LearningResource objects.	LearningResourceRefIdListType
LessonSources	O			One or more sources for the lesson. This describes the lesson's origin.	LessonSourceListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.10-1: Lesson

```

JSON XML
<Lesson RefId="AA615180323F35222BC441109F99218" xmlns:lang="en">
  <SourceObject>
    <SourceObject SIF_Identifier="Assessment">538A805BCFA442AF8C308A300309F5B1</SourceObject>
  </SourceObject>
  <CurriculumStructures>
    <CurriculumStructureRefId>73014324028278AA37A48A3374F77457</CurriculumStructureRefId>
  </CurriculumStructures>
</Lesson>
    
```

Example 3.11.10-1: Lesson

3.11.11 PersonRoleAssociation

This object contains personal information about individuals to allow them to be tracked and information collected in role specific objects (e.g., StudentPersonal and StaffPersonal) to be related. In a future major release, the architecture may allow this to be streamlined.

SIF_Events are reported for this object.

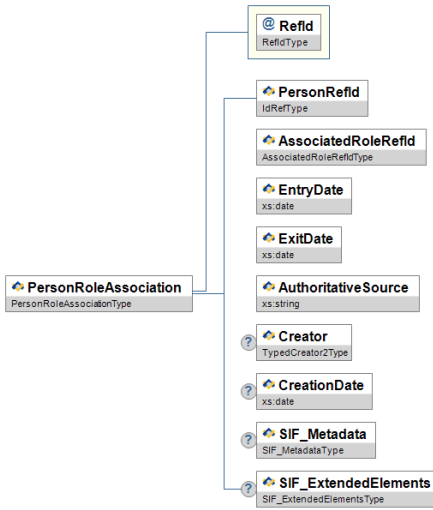


Figure 3.11.11.1: PersonRoleAssociation

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
PersonRoleAssociation				This object contains personal information about individuals to allow them to be tracked and information collected in role specific objects (e.g., StudentPersonal and StaffPersonal) to be related. In a future major release, the architecture may allow this to be streamlined.	
@ RefId	M			The RefId of the PersonRoleAssociation object.	RefIdType
PersonRefId	M			The GUID of the person.	IdRefType
AssociatedRoleRefId	M			The RefId of the *Personal SIF_Object representing this Person's role .	AssociatedRoleRefIdType
EntryDate	M			Effective start date of the association.	xs:date
ExitDate	M			Effective end date of the association.	xs:date
AuthoritativeSource	M			Body or organization creating this association.	xs:string
Creator	O			Name of the Creator of this association.	TypedCreator2Type
CreationDate	O			Creation date of the relationship.	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.11.1: PersonRoleAssociation

```

JSON
XML
<PersonRoleAssociation RefId="F260716384746B38745900P84717C00">
  <PersonRefId F260716384746B38745900P84717C00 />
  <AssociatedRoleRefId From_Id="none-hostonpublicschools.com" Type="StaffPersonal">D3E348359075101A8C3D00A001A1652C/AssociatedRoleRefId</
  <EntryDate>2012-01-21</EntryDate>
  <ExitDate>2013-03-21</ExitDate>
  <AuthoritativeSource>RPS Identity Manager</AuthoritativeSource>
  
```

Example 3.11.11.1: PersonRoleAssociation

3.11.12 ResponseToIntervention

Response to Intervention (RTI) is a multi-tier approach to the early identification and assistance of students who are having learning and/or behavioral needs. This process includes intervention, frequent progress measurement, and research-based instructional interventions for students. This object represents the information that describes the Response to Intervention. Multiple ResponseToIntervention objects may be created for an individual student.

SIF_Events are reported for this object.

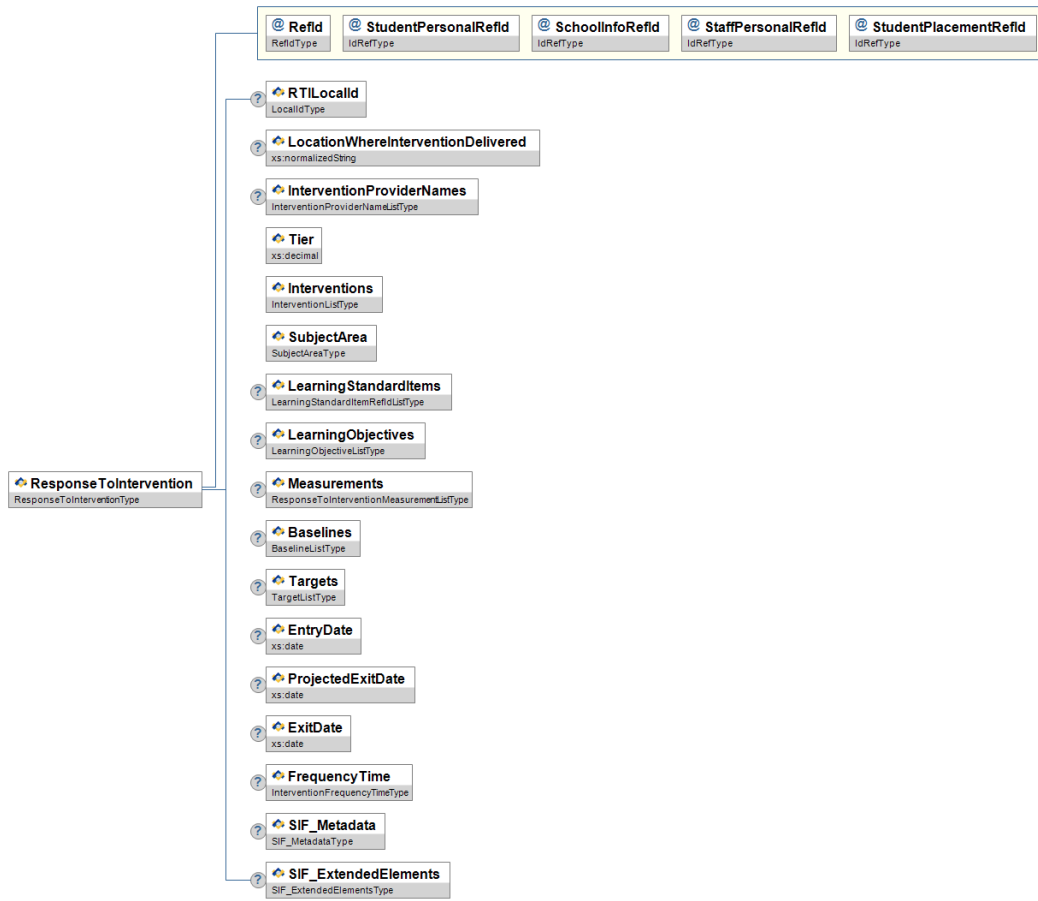


Figure 3.11.12-1: ResponseToIntervention

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
ResponseToIntervention				Response to Intervention (RTI) is a multi-tier approach to the early identification and assistance of students who are having learning and/or behavioral needs. The process includes intervention, frequent progress measurement, and research-based instructional interventions for students. This object represents the information that describes the Response to Intervention. Multiple ResponseToIntervention objects may be created for an individual student.	
@ RefId	M			The Id (GUID) that uniquely identifies a particular Response to Intervention.	RefIdType
@ StudentPersonalRefId	M			The Id (GUID) of the student to whom this intervention is being administered.	IdRefType
@ SchoolInfoRefId	M			The Id (GUID) of the school to which this intervention applies.	IdRefType
@ StaffPersonalRefId	M			The Id (GUID) of the staff member who is administering this intervention.	IdRefType
@ StudentPlacementRefId	M			The Id (GUID) that references the StudentPlacement Object that contains information that describes a specific instructional, related or transitional service that has been prescribed or recommended in the program plan developed for a student who has been placed in an individualized special program.	IdRefType
RTILocalId	O			A local ID that may be used to identify this intervention for the student.	LocalIdType
LocationWhereInterventionDelivered	O			This is where the actual intervention would take place. For example, if at a tutoring provider, then the tutoring organization would be named.	xs:normalizedString
InterventionProviderNames	O			A list of persons providing the intervention.	InterventionProviderNameListType
Tier	M			The specific tier of intervention.	xs:decimal
Interventions	M			The list of interventions applied here.	InterventionListType
SubjectArea	M			The subject for which this intervention is intended.	SubjectAreaType
LearningStandardItems	O			List of LearningStandardItems.	LearningStandardItemRefIdListType
LearningObjectives	O			The specific learning objective(s) being addressed by this intervention.	LearningObjectiveListType
Measurements	O				ResponseToInterventionMeasurementListType
Baselines	O			List of pre-assessment data used to evaluate the student on the learning objective.	BaselineListType
Targets	O			List of specific end aims.	TargetListType
EntryDate	O			When the intervention begins.	xs:date
ProjectedExitDate	O			When the intervention is anticipated to end.	xs:date
ExitDate	O			Date of when the intervention actually ended.	xs:date
FrequencyTime	O			The frequency of the intervention.	InterventionFrequencyTimeType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.12.1: ResponseToIntervention

```

JSON XML
<ResponseToIntervention RefId="1652D3E34F419075101ABC3D00AA001A" StudentPersonalRefId="DE072A87EFD4B778A9FFAF83C94839E" SchoolInfoRefId="1947AB893C29F73910FB"
  <@RTILocalId@RefId@RTILocalId
  <LocationWhereInterventionDelivered@Classroom@LocationWhereInterventionDelivered@
  <InterventionProviderNames>
  <InterventionProviderName StaffPersonalRefId="1652D3E34F419075101ABC3D00AA001A" />
  <InterventionProviderName>
  
```

Example 3.11.12.1: ResponseToIntervention

3.11.13 RTIResults

Response to Intervention (RTI) is a multi-tier approach to the early identification and assistance of students who are having learning and/or behavioral needs. This object records the individual learner information for an assigned ResponseToIntervention.

SIF_Events are reported for this object.

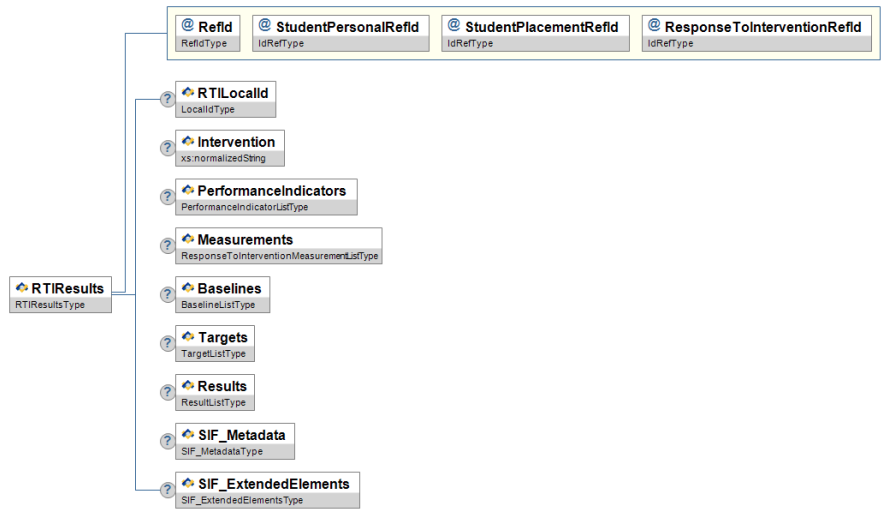


Figure 3.11.13-1: RTIResults

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
RTIResults				Response to Intervention (RTI) is a multi-tier approach to the early identification and assistance of students who are having learning and/or behavioral needs. This object records the individual learner information for an assigned ResponseToIntervention.	
@ RefId	M			The Id (GUID) that uniquely identifies the results of a particular Response to Intervention.	RefIdType
@ StudentPersonalRefId	M			The Id (GUID) of the student being administered the intervention..	IdRefType
@ StudentPlacementRefId	M			The Id (GUID) that references the StudentPlacement Object that contains information that describes a specific instructional, related or transitional service that has been prescribed or recommended in the program plan developed for a student who has been placed in an individualized special program.	IdRefType
@ ResponseToInterventionRefId	M			The Id (GUID) of the reference to the ResponseToIntervention that has been assigned for this individual learner.	IdRefType
RTILocalId	O			A local ID that may be used to identify this intervention for the student.	LocalIdType
Intervention	O			Naming of the intervention.	xs:normalizedString
PerformanceIndicators	O			The specific measurement goals at the end of the intervention that each student should reach.	PerformanceIndicatorListType
Measurements	O			The specific measurement goals at the end of the intervention that each student should reach.	ResponseToInterventionMeasurementListType
Baselines	O			List of pre-assessment data used to evaluate the student on the learning objective.	BaselineListType
Targets	O			List of specific end aims.	TargetListType
Results	O				ResultListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.11.13-1: RTIResults

```

JSON XML
<RTIResults RefId="1652D3E349419075101ABC3000AA001A" StudentPersonalRefId="F260716384746B387459000F84717C00" StudentPlacementRefId="DE072A87EFA04B778A99FAF83C"
  RTILocalId="R1703"/>
<Intervention>Read Naturally</Intervention>
<PerformanceIndicators>
  <PerformanceIndicator>ORP 120</PerformanceIndicator>
</PerformanceIndicators>
    
```

Example 3.11.13-1: RTIResults

3.12 Library Automation Working Group

The Library Automation Working Group provides the library automation entities necessary to effectively exchange relevant data via the framework.

3.12.1 LibraryPatronStatus

This object reports the current library status for the requested student or staff member. The minimum data that the object will return will be the patron's ElectronicId, the total number of materials that are checked out and overdue, and the number and amount of any fines that have been assessed to the patron. When a patron has materials that have been checked out, requested, or are overdue, the object will contain a transaction element describing the details of the transaction. Likewise, any fines that have an outstanding balance will also have a transaction element for the fine.

When a checked out item is returned to the library, it will not appear in the object, even if the item was overdue. Fines that have an outstanding balance will be reported, but when the fine is paid, it will not appear in the object.

SIF_Events are not reported for this object.

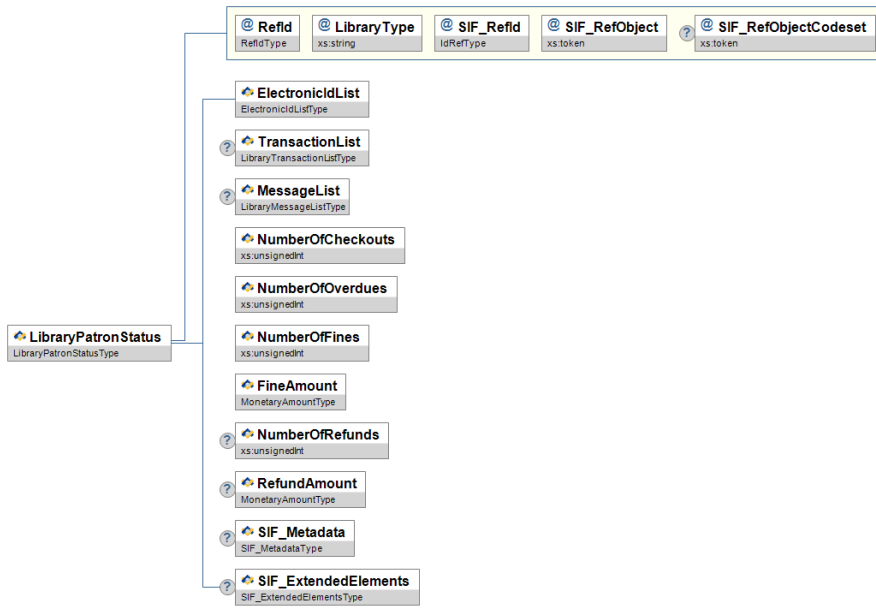


Figure 3.12.1-1: LibraryPatronStatus

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
LibraryPatronStatus				This object reports the current library status for the requested student or staff member.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
@ LibraryType	M			A library-defined language-independent value that refers to a specific patron type.	xs:string
@ SIF_RefId	M			The SIF wide unique identifier of a student or teacher.	IdRefType
@ SIF_RefObject	M			The type of patron mapped to a SIF supported object. Library automation products work with patrons who could be students or teachers.	xs:token
@ SIF_RefObjectCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ElectronicIdList	M			List of electronic identifiers associated with the patron.	ElectronicIdListType
TransactionList	O			List of transactions.	LibraryTransactionListType
MessageList	O			List of messages for/regarding the patron.	LibraryMessageListType
NumberOfCheckouts	M			The total number of items that this patron currently has checked out including overdue items.	xs:unsignedInt
NumberOfOverdues	M			The total number of checkouts that are currently overdue.	xs:unsignedInt
NumberOfFines	M			The total number of fines currently assessed to this patron.	xs:unsignedInt
FineAmount	M			The total monetary amount of the fines that this patron currently owes the library expressed as a positive number.	MonetaryAmountType
NumberOfRefunds	O			The total number of refunds currently credited to this patron.	xs:unsignedInt
RefundAmount	O			The total monetary amount of the refunds that the library currently owes the patron expressed as a positive number.	MonetaryAmountType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.12.1-1: LibraryPatronStatus

```

JSON XML
<LibraryPatronStatus RefId="359075191A0A9097ARC3DAD0A5103A2" LibraryType="S" SIF_RefId="5208B8FC2013110488EC0039303A29C" SIF_RefObject="StudentPersonal">
  <ElectronicIdList>
    <ElectronicId type="Barcode">9 7676</ElectronicId>
    <ElectronicId type="Magstripe">20069630007676JJI</ElectronicId>
    <ElectronicId type="PIN">1234</ElectronicId>
    <ElectronicId type="PID">0E304905521F80008FFEB</ElectronicId>
  </ElectronicIdList>
  <TransactionList>
  </TransactionList>
  <MessageList>
  </MessageList>
  <NumberOfCheckouts>1
  <NumberOfOverdues>0
  <NumberOfFines>0
  <FineAmount>0
  <NumberOfRefunds>0
  <RefundAmount>0
  <SIF_Metadata>
  </SIF_Metadata>
  <SIF_ExtendedElements>
  </SIF_ExtendedElements>
</LibraryPatronStatus>
    
```

Example 3.12.1-1: LibraryPatronStatus

3.13 Professional Development Working Group

The Professional Development Working Group assesses the interoperability needs of state and local education agencies with regard to professional development. This includes:

- Assessment of professional certification requirements related to the "Highly Qualified Teacher Provisions of No Child Left Behind."
- Training for administrative and teaching staff on new systems and/or educational programs directed to best practices to be implemented in the schools.
- Developing data objects that can transport professional development course information, assessment of performance in these courses, and the longitudinal data needed to track professional development of staff.

3.13.1 ActivityProvider

This object contains information about educational providers of professional education courses and activities.

SIF_Events are reported for this object.

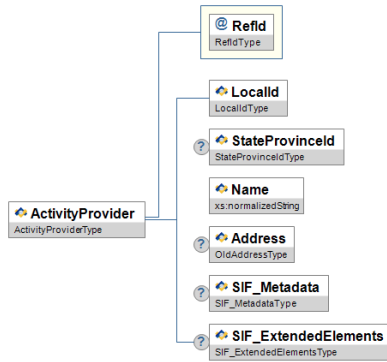


Figure 3.13.1-1: ActivityProvider

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
ActivityProvider				This object contains information about educational providers of professional education courses and activities.	
@RefId	M			GUID for this object. The application that owns this object is responsible for generating this unique Id.	RefIdType
LocalId	M			Local code used to represent this provider	LocalIdType
StateProvinceId	O			State assigned provider number	StateProvinceIdType
Name	M			Name of the provider.	xs.normalizedString
Address	O			This element contains information related to provider's address information.	OidAddressType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.13.1-1: ActivityProvider

JSON XML

```
<ActivityProvider RefId="FE1978BA3261545A31905937B265CB01">
  <LocalId>305,0</LocalId>
  <StateProvinceId>4828</StateProvinceId>
  <Name>Sunnyvalley College</Name>
  <Address Type="0123">
    <Street>
```

Example 3.13.1-1: ActivityProvider

3.13.2 EmployeeCredential

This object contains HR, certification and teaching assignment information for elementary and secondary professional personnel for state reporting. It is a snapshot object used for vertical reporting of data related to K-12 elementary and secondary professional employees.

SIF_Events are not reported for this object.

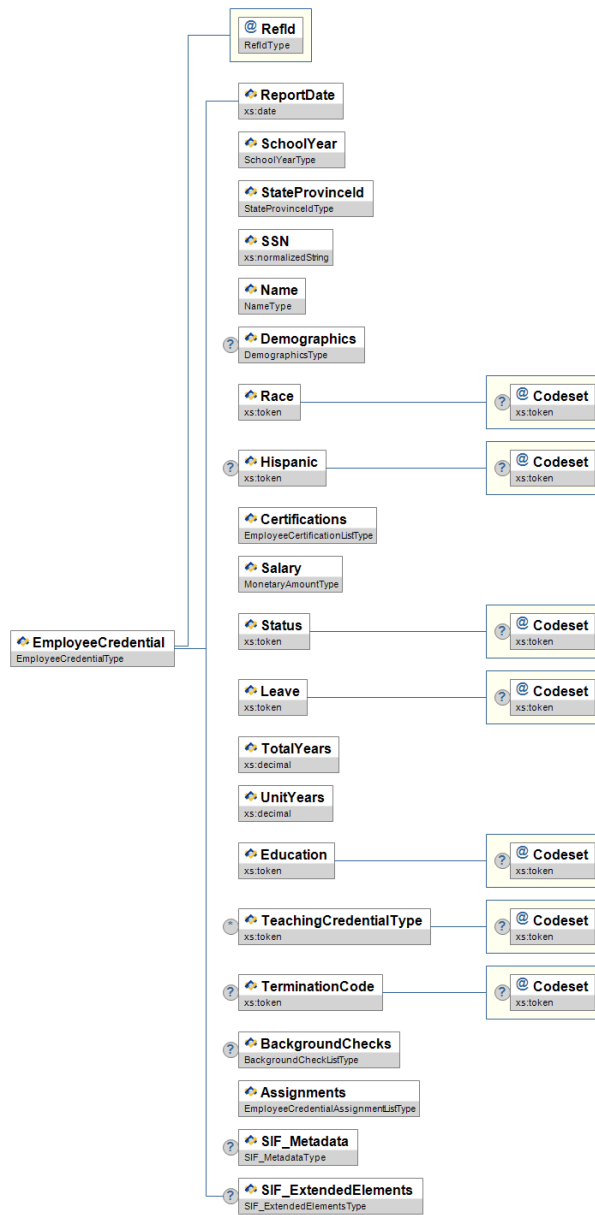


Figure 3.13.2-1: EmployeeCredential

Element/@ Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EmployeeCredential				This object contains HR, certification and teaching assignment information for elementary and secondary professional personnel for state reporting. It is a snapshot object used for vertical reporting of data related to K-12 elementary and secondary professional employees.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	xs:string
ReportDate	M			Date that report snapshot was generated	xs:date
SchoolYear	M			School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., "2004" for the 2003-04 school year).	SchoolYearType
StateProvinceId	M		000365 https://ceds.ed.gov/element/000365	State assigned reporting unit number	StateProvinceIdType
SSN	M		000259 https://ceds.ed.gov/element/000259	Employee social security number	xs:normalizedString
Name	M			Name of employee.	NameType
Demographics	O			This element contains information related to employee demographics.	DemographicsType
Race	M			Primary employee's race	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Hispanic	O			Is this employee Hispanic or Latino?	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Certifications	M			Employee certifications	EmployeeCertificationListType
Salary	M		000295 https://ceds.ed.gov/element/000295	Employee's salary	xs:decimal
Status	M			Employee professional position status	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Leave	M		000624 https://ceds.ed.gov/element/000624	Is this employee on leave this year?	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
TotalYears	M			Total number of years employee has been in a professional position	xs:decimal
UnitYears	M			Total number of years at current LEA	xs:decimal
Education	M		000141 https://ceds.ed.gov/element/000141	Highest level of education attained by employee.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
TeachingCredentialType	OR		000071 https://ceds.ed.gov/element/000071	Category in which teacher is authorized to teach	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
TerminationCode	O		000620 https://ceds.ed.gov/element/000620	If appropriate, employment separation reason	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
BackgroundChecks	O			List of background checks performed on employee	BackgroundCheckListType
Assignments	M			List of employee assignments to schools	EmployeeCredentialAssignmentListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementListType

Table 3.13.2-1: EmployeeCredential

JSON XML

```
<EmployeeCredentialList RefId="359075101AD0A907ABC1D0A8103A2">
  <ReportDate>2004-01-15</ReportDate>
  <SchoolYear>2004</SchoolYear>
  <StateProvinceId>123456</StateProvinceId>
  <SSN>5451234</SSN>
  <Name Type="M">
```

Example 3.13.2-1: EmployeeCredential

3.13.3 EmployeeCredit

This object contains information about courses and activities taken by employees.

SIF_Events are reported for this object.

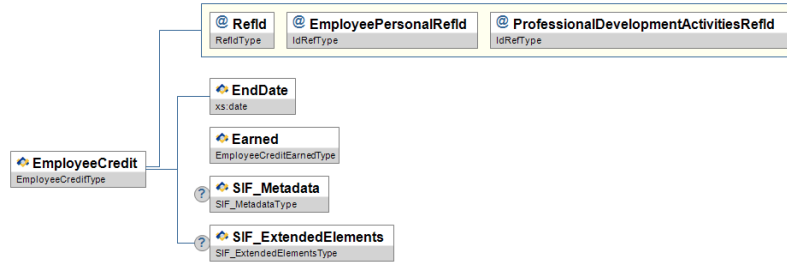


Figure 3.13.3-1: EmployeeCredit

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EmployeeCredit				This object contains information about courses and activities taken by employees.	
@ RefId	M			This is the GUID for this object.	RefIdType
@ EmployeePersonalRefId	M			References EmployeePersonal object.	IdRefType
@ ProfessionalDevelopmentActivitiesRefId	M			References the ProfessionalDevelopmentActivities object	IdRefType
EndDate	M			Date in which the course or activity was completed and awarded credit.	xs:date
Earned	M			The number of units earned	EmployeeCreditEarnedType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.13.3-1: EmployeeCredit

```

JSON
XML
<EmployeeCredit RefId="BC2078BA3261545A319059378265CE01" EmployeePersonalRefId="BE3078BA3261545A319059378265CE01" ProfessionalDevelopmentActivitiesRefId="FD40"
  <EndDate>2003-05-20</EndDate>
  <Earned Type="Credits">3.4</Earned>
</EmployeeCredit>
    
```

Example 3.13.3-1: EmployeeCredit

3.13.4 EmployeeRecertification

This object contains information about employee continuing professional course and activity credits and hours taken by employees for recertification purposes. It is used as a vertical reporting snapshot-type object to transmit information regarding professional continuing education courses and activities completed by employees to maintain their current educational certification(s) within a given state.

SIF_Events are not reported for this object.

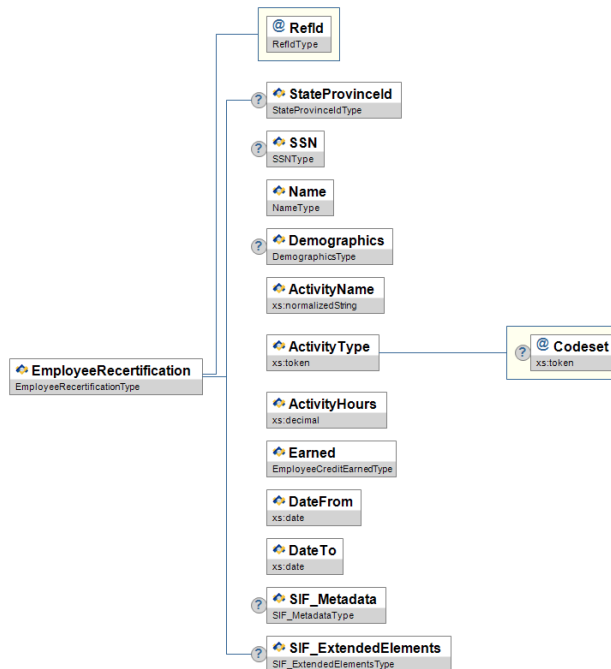


Figure 3.13.4-1: EmployeeRecertification

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
EmployeeRecertification				This object contains information about employee continuing professional course and activity credits and hours taken by employees for recertification purposes. It is used as a vertical reporting snapshot-type object to transmit information regarding professional continuing education courses and activities completed by employees to maintain their current educational certification(s) within a given state.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
StateProvinceId	C			The state-assigned identifier for this staff member. This element or ssn, or both, must be included.	StateProvinceIdType
SSN	C			Employee Social Security Number. This element or stateProvinceId, or both, must be included.	SSNType
Name	M			Name of employee.	NameType
Demographics	O			This element contains information related to employee demographics.	DemographicType
ActivityName	M			Name of the course or activity	xs:normalizedString
ActivityType	M			Type of course or activity	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ActivityHours	M			Total activity hours/total clock hours	xs:decimal
Earned	M			Hours attended or credits earned by the employee	EmployeeCreditEarnedType
DateFrom	M			Start date of the course or activity	xs:date
DateTo	M			Ending date of the course or activity	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.13.4-1: EmployeeRecertification

```

JSON XML
<EmployeeRecertification RefId="359075101A00A907A8C3DAD0A85103A2">
  <@id="22450789"/>
  <@state_Type="04">
    <LastName>Johnson/<LastName>
    <FirstName>Alice/<FirstName>
  </>

```

Example 3.13.4-1: EmployeeRecertification

3.13.5 ProfessionalDevelopmentActivities

This object contains information about courses and activities for which employees can earn credits or hours to maintain their certification.

SIF_Events are reported for this object.

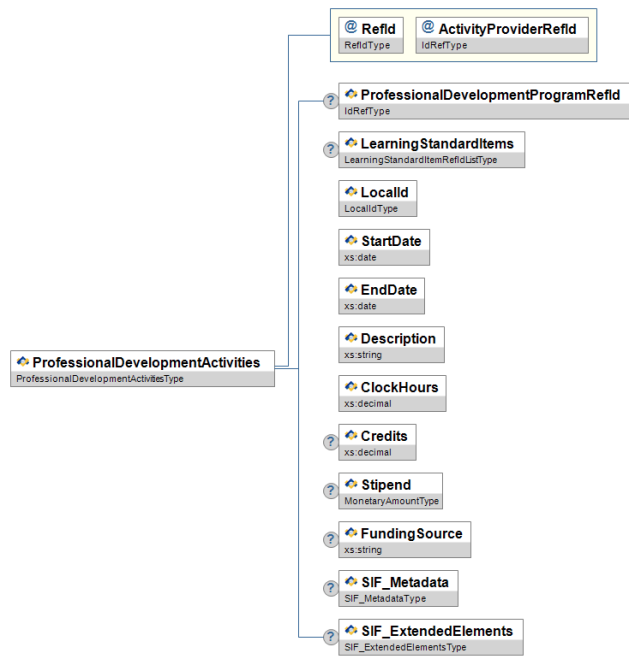


Figure 3.13.5-1: ProfessionalDevelopmentActivities

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
ProfessionalDevelopmentActivities				This object contains information about courses and activities for which employees can earn credits or hours to maintain their certification.	
@ RefId	M			GUID for this object.	RefIdType
@ ActivityProviderRefId	M			References the ActivityProvider object	IdRefType
ProfessionalDevelopmentProgramRefId	O			Reference to associated professional development program.	IdRefType
LearningStandardItems	O			Associated LearningStandardItem objects.	LearningStandardItemRefListType
LocalId	M			Locally assigned number or provider referenced course number used to represent the course or activity	LocalIdType
StartDate	M			The starting date of the course or activity	xs:date
EndDate	M			The ending date of the course or activity	xs:date
Description	M			The description of the course or activity	xs:string
ClockHours	M			The actual number of hours required for the course or activity	xs:decimal
Credits	O			Number of credits that can be earned by completing the course or activity.	xs:decimal
Stipend	O			Tracks stipend being offered for this particular activity.	MonetaryAmountType
FundingSource	O			Tracks the source of funding for this particular activity.	xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.13.5-1: ProfessionalDevelopmentActivities

```

JSON XML
<ProfessionalDevelopmentActivities RefId="CD12548848546877F4567DADC244537" ActivityProviderRefId="CD1254888E546877F4567DADC244532">
  <ProfessionalDevelopmentProgramRefId="BCFC897ADBC4819818E546C8A118E"/>
  <LearningStandardItems>
    <LearningStandardItemRefId="38473628DAE38FCD83790E285AA3C328"/>
  </LearningStandardItems>
  <LocalId="105_0c/LocalId">

```

Example 3.13.5-1: ProfessionalDevelopmentActivities

3.13.6 ProfessionalDevelopmentProgram

The purpose of this object is for tracking sets of professional development activities. It creates a high-level relationship between professional development activities for tracking training programs, grant-funded professional development, or potentially individually created learning programs. The case for interoperability is that financial systems and instructional systems need to be aware of professional development programs for funding or alignment respectively.

SIF_Events are reported for this object.

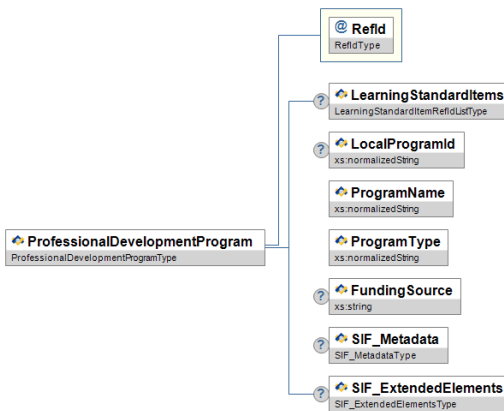


Figure 3.13.6-1: ProfessionalDevelopmentProgram

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
ProfessionalDevelopmentProgram					
@ RefId	M			Container for external relationships.	RefIdType
LearningStandardItems	O			Associated LearningStandardItem objects.	LearningStandardItemRefIdListType
LocalProgramId	O			An element for setting local program identifiers.	xs:normalizedString
ProgramName	M			The name or title of the program.	xs:normalizedString
ProgramType	M			The type of program whether it be a grant, learning plan, or system training.	xs:normalizedString
FundingSource	O			The funding source of the program.	xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.13.6-1: ProfessionalDevelopmentProgram

```

JSON XML
<ProfessionalDevelopmentProgram RefId="66f37470472d49e286c1fA8E47D8244">
  <LearningStandardItems>
    <LearningStandardItemRefId=241A53AFBA1174E8F042167CFC29080C/LearningStandardItemRefId>
  </LearningStandardItems>
  <LocalProgramId=1112>/LocalProgramId>
  <ProgramName=Building First Graders/ProgramName>

```

Example 3.13.6-1: ProfessionalDevelopmentProgram

3.13.7 ProfessionalDevelopmentRegistration

This object tracks the status of the user in a professional development activity. It includes where the user is in terms of the status of completion, if a stipend is to be provided and the amount of that stipend.

SIF_Events are reported for this object.

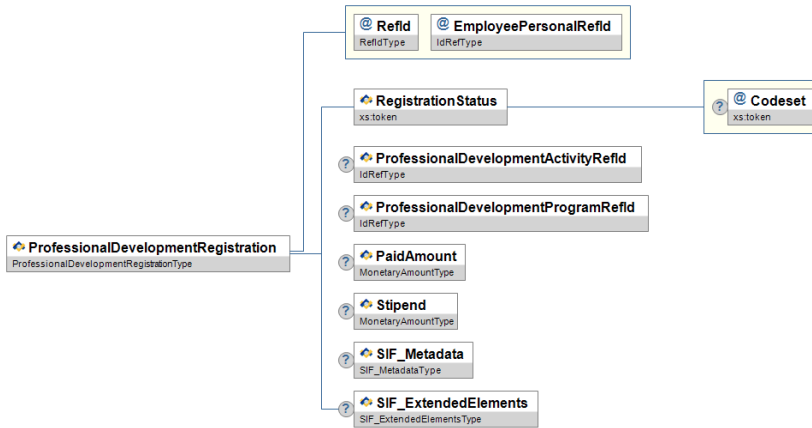


Figure 3.13.7-1: ProfessionalDevelopmentRegistration

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
ProfessionalDevelopmentRegistration					
@ RefId	M				RefIdType
@ EmployeePersonalRefId	M			Who this record affects.	IdRefType
RegistrationStatus	M			Tracks the status of the user in the professional development activity.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ProfessionalDevelopmentActivityRefId	O			Relationship Id for professional development activity.	IdRefType
ProfessionalDevelopmentProgramRefId	O			Relationship Id for professional development program.	IdRefType
PaidAmount	O			This optional field is used if there is a fee for the professional development activity and for tracking the amount the user paid to participate in the professional development activity.	MonetaryAmountType
Stipend	O			Optional field for tracking the amount the user is paid to participate in the professional development activity.	MonetaryAmountType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.13.7-1: ProfessionalDevelopmentRegistration

```

JSON XML
<ProfessionalDevelopmentRegistration RefId="ACB1254742A854CC8745670F0D3196832" EmployeePersonalRefId="0481EA3D824614CA3936151485F115B14">
  <RegistrationStatus=Registered/RegistrationStatus>
  <ProfessionalDevelopmentActivityRefId=13718D472A8862C874567A8E4196D01/>ProfessionalDevelopmentActivityRefId>
  <PaidAmount Currency="USD">250</PaidAmount>
  <Stipend Currency="USD">500</Stipend>
</ProfessionalDevelopmentRegistration>

```

Example 3.13.7-1: ProfessionalDevelopmentRegistration

3.14 Special Programs Working Group

The Special Programs Working Group's mission is to focus on support within SIF for effective data exchange regarding special education and other individualized programs.

3.14.1 StudentParticipation

This object contains information pertaining to student eligibility for and participation in an individualized special program such as special education, ESL, Section 504, etc.

Multiple instances of this object may be transmitted for a particular student because the student may participate in multiple programs and because the details of a student's participation in a given program may change over time. A separate instance of this object must be generated for each program in which the student participates, and the `programType` element is used to identify the particular program. In addition, each time the student's participation profile changes for a particular program, a new instance of this object must be generated with the appropriate value in the `programType` element, the effective date of the new profile in `studentParticipationStartDate`, and a new `refId`.

SIF_Events are reported for this object.

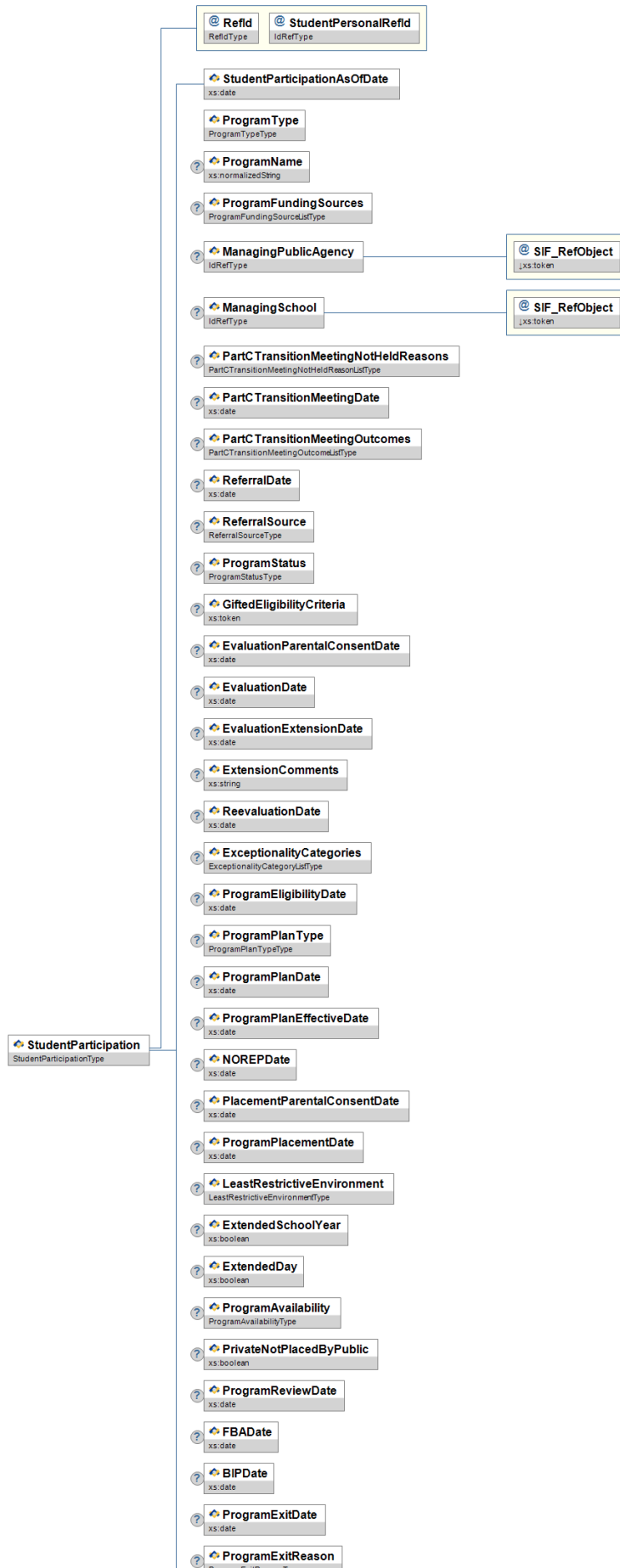


Figure 3.14.1-1: Student Participation

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentParticipation				This object contains information pertaining to student eligibility for and participation in an individualized special program such as special education, ESL, Section 504, etc. Multiple instances of this object may be transmitted for a particular student because the student may participate in multiple programs and because the details of a student's participation in a given program may change over time. A separate instance of this object must be generated for each program in which the student participates, and the ProgramType element is used to identify the particular program. In addition, each time the student's participation profile changes for a particular program, a new instance of this object must be generated with the appropriate value in the programType element, the effective date of the new profile in studentParticipationAsOfDate, and a new RefId.	
@ RefId	M			This is the unique identification code	RefIdType
@ StudentPersonalRefId	M			The GUID of the student that this object is linked to.	IdRefType
StudentParticipationAsOfDate	M		000590 https://ceds.ed.gov/element/000590	Effective date (NOT the entry date) of this StudentParticipation instance for the identified student and program. Each time there is a change to the student's program participation profile, a new instance of this object is to be generated with the appropriate StudentParticipationAsOfDate and a new RefId.	xs:date
ProgramType	M				ProgramTypeType
ProgramName	O		000626 https://ceds.ed.gov/element/000626	The name or title of the program.	xs:normalizedString
ProgramFundingSources	O				ProgramFundingSourceListType
ManagingPublicAgency	O			The GUID of the public agency (a district / LEA) to which the "ManagingSchool" reports / belongs.	IdRefType
@ SIF_RefObject	M				values: LEAInfo
ManagingSchool	O			The GUID of the school responsible for coordinating the student's program participation.	IdRefType
@ SIF_RefObject	M				values: SchoolInfo
PartCTransitionMeetingNotHeldReasons	O				PartCTransitionMeetingNotHeldReasonListType
PartCTransitionMeetingDate	O			Date the transition meeting was held for a Part C child.	xs:date
PartCTransitionMeetingOutcomes	O				PartCTransitionMeetingOutcomeListType
ReferralDate	O			Date student was referred for evaluation/program participation.	xs:date
ReferralSource	O				ReferralSourceType
ProgramStatus	O				ProgramStatusType
GiftedEligibilityCriteria	O			State / local code used to determine eligibility for Gifted / Talented program.	xs:token
EvaluationParentalConsentDate	O			Date parent(s) consented to completion of evaluation of child for program participation.	xs:date
EvaluationDate	O			Date the evaluation/assessment process for student was completed.	xs:date
EvaluationExtensionDate	O			Actual date by which evaluation must be completed (for state use in determining timeliness in event that parent and LEA agreed to an extension beyond normal state deadline).	xs:date
ExtensionComments	O			Contains any comments on the extension. Optional even if an EvaluationExtensionDate is present.	xs:string
ReevaluationDate	O			Date students will be reevaluated for continued placement in a support program(s).	xs:date
ExceptionalityCategories	O				ExceptionalityCategoryListType
ProgramEligibilityDate	O		000590 https://ceds.ed.gov/element/000590	Date student is eligible for beginning the support program(s).	xs:date
ProgramPlanType	O				ProgramPlanTypeType
ProgramPlanDate	O			Date the most recent program plan was completed and approved by the team responsible for developing it. The date the parent consented to placement is NOREPDate.	xs:date
ProgramPlanEffectiveDate	O			Date by which the plan must be implemented for the student.	xs:date
NOREPDate	O			Date the Notice of Recommended Educational Placement was signed and approved by the parent / guardian of the student.	xs:date
PlacementParentalConsentDate	O			Date the parent(s) consented to the proposed placement.	xs:date
ProgramPlacementDate	O		000590 https://ceds.ed.gov/element/000590	Date student began the support program.	xs:date
LeastRestrictiveEnvironment	O				LeastRestrictiveEnvironmentType
ExtendedSchoolYear	O			For special education, indicates whether Extended School Year (ESY) / summer services have been determined as necessary	xs:boolean
ExtendedDay	O			For special education, indicates whether Extended School Day (ESD) services have been determined as necessary.	xs:boolean
ProgramAvailability	O				ProgramAvailabilityType
PrivateNotPlacedByPublic	O			Indicates whether the student is enrolled by a parent/guardian in a private school and has special education/services provided at public expense. Necessary for the OSEP federal IDEA reports..	xs:boolean
ProgramReviewDate	O			Projected date of the program plan review (for IDEA, the projected annual IEP review date).	xs:date
FBADate	O			The most recent date on which the IEP Team completed a full and comprehensive review of all functional behavioral assessment materials.	xs:date

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type						
BIPDate	O			The most recent date on which the IEP Team approved a behavioral intervention plan.	xs:date						
ProgramExitDate	O		000263 https://ced.s.ed.gov/element/000263	Date student exited support program(s).	xs:date						
ProgramExitReason	O				ProgramExitReasonType						
ProjectedExitDate	O			The date on which it is projected that a student will exit program. Has typically been provided when student turns 14; under new IDEA, may change to 16.	xs:date						
ProjectedExitReason	O		000222 https://ced.s.ed.gov/element/000222	Review by program / state. May be required if a ProjectedExitDate is present. The projected reason for a student's exit from program.	SourceCodeSetType						
PlannedAssessmentParticipation	O			The student's planned level of participation in statewide assessments. Examples Accommodations - Students with Disabilities Accommodations - Students with temporary or long-term disabilities and Section 504 students Accommodations - English Language Learners Exempted Students - Transfer Excused - Prior to Test Excused - During Testing	SourceCodeSetType						
TransitionPlanning	O			Purpose / goal for recommended transition planning services. Examples Postsecondary Ed - transition services should be targeted toward postsecondary education Employment - transition services should be targeted toward employment Community living - transition services should be targeted toward community living NA - not applicable (e.g., student is younger than age 16)	SourceCodeSetType						
StudentSpecialEducationFTE	O			Calculated ratio of time the student is in a special ed setting. Values range from 0.00 to 1.00. If the student is in a special ed setting 25% of the time, the value is .25; if 100% of the time, the value is 1.00.	xs:decimal <table border="1"> <tr><td>isInitialInclusive</td><td>0</td></tr> <tr><td>isIntermediateInclusive</td><td>1</td></tr> <tr><td>isFinalInclusive</td><td>2</td></tr> </table>	isInitialInclusive	0	isIntermediateInclusive	1	isFinalInclusive	2
isInitialInclusive	0										
isIntermediateInclusive	1										
isFinalInclusive	2										
EntryPerson	O			Identification / name of the person who created the transaction that led to the creation of this instance of the object.	xs:normalizedString						
ParticipationContact	O			Primary contact for this record.	xs:normalizedString						
AdditionalProgramAvailabilityList	O				ProgramAvailabilityListType						
CaseManager	O			The name of the case manager responsible for the academic plans of this student.	xs:normalizedString						
SIF_Metadata	O				SIF_MetadataType						
SIF_ExtendedElements	O				SIF_ExtendedElementsType						

Table 3.14.1-1: StudentParticipation

JSON XML

```
<StudentParticipation RefId="03E34B359D75101A8C3D00AA01A1652" StudentPersonalRefId="A2E34F59A742C1A483D11CC002B163A2">
  <StudentParticipationAsOfDate>2006-07-13</StudentParticipationAsOfDate>
  <ProgramType>
    <Code>0279</Code>
    <OtherCodeList>
      <OtherCode CodeSet="State@Province">0839</OtherCode>
    </OtherCodeList>
  </ProgramType>
</StudentParticipation>
```

Example 3.14.1.1: StudentParticipation - Example 1

JSON XML

```
<StudentParticipation RefId="03E34B359D75101A8C3D00AA01A1652" StudentPersonalRefId="A2E34F59A742C1A483D11CC002B163A2">
  <StudentParticipationAsOfDate>2006-07-13</StudentParticipationAsOfDate>
  <ProgramType>
    <Code>0279</Code>
    <OtherCodeList>
      <OtherCode CodeSet="State@Province">0839</OtherCode>
    </OtherCodeList>
  </ProgramType>
</StudentParticipation>
```

Example 3.14.1.2: StudentParticipation - Example 2

3.14.2 StudentPlacement

This object contains information that describes a specific instructional, related or transitional service that has been prescribed or recommended in the program plan developed for a student who has been placed in an individualized special program.

The following notes are intended to clarify the use of this object:

- 🔗 If assistive technology is considered a service and is prescribed in a general context rather than associated with another specific service, this can be reported as a service by using the appropriate service code
- 🔗 If transportation is considered a service and is prescribed in a general context rather than associated with another specific service, this can be reported as a service by using the appropriate service code
- 🔗 If the value of FrequencyTime is not the same for direct and indirect delivery of the service, each delivery can be reported separately (e.g. one instance of the object contains the direct information, the second instance contains the indirect)
- 🔗 If a state or district requires the reporting of "minutes per week" and does not use the concept of number of sessions, set FrequencyTime to "1 per week" and complete DirectTime / IndirectTime and TotalServiceDuration with the appropriate number of minutes

SIF_Events are reported for this object.

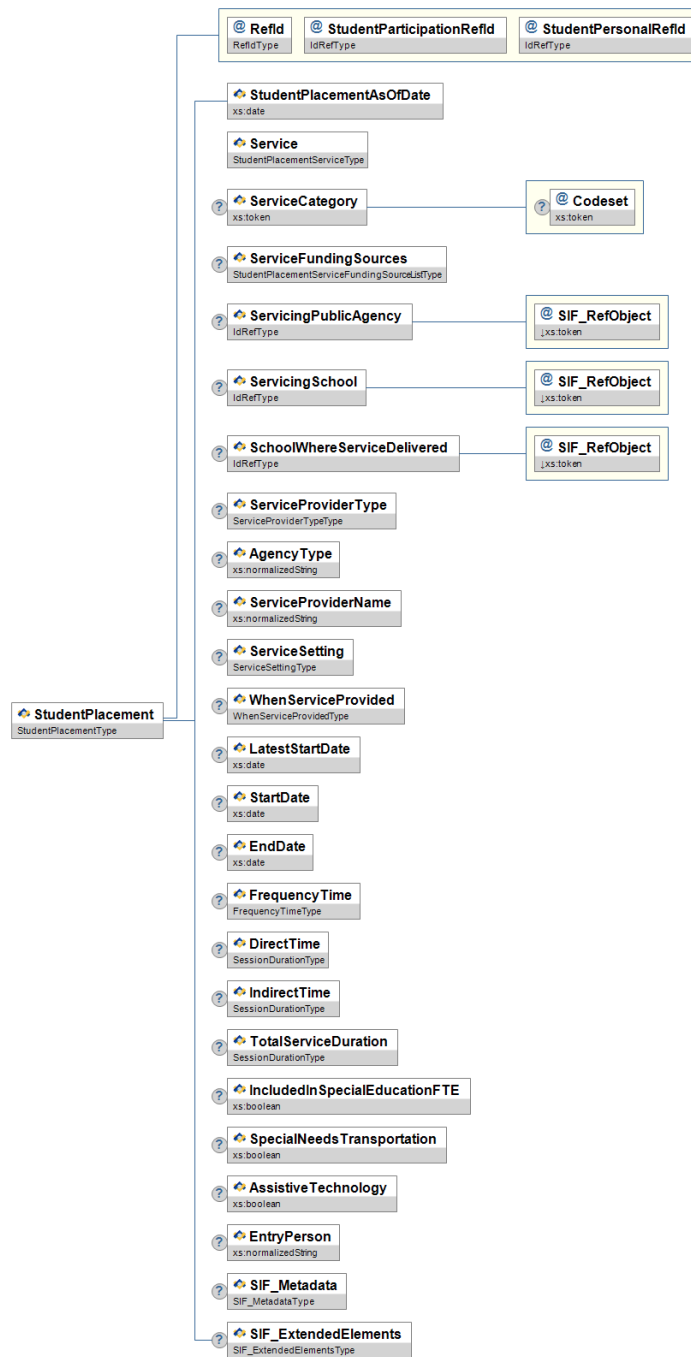


Figure 3.14.2-1: StudentPlacement

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentPlacement				This object contains information that describes a specific instructional, related or transitional service that has been prescribed or recommended in the program plan developed for a student who has been placed in an individualized special program.	
@ RefId	M			This is the unique identification code	RefIdType
@ StudentParticipationRefId	M			This is the reference code for student eligibility for participation	IdRefType
@ StudentPersonalRefId	M			The GUID of the student that this object is linked to.	IdRefType
StudentPlacementAsOfDate	M			Effective date (NOT the entry date) of this StudentPlacement instance for the identified student and program. It is intended that each time the contents of this instance of the object changes, it will be published with a new RefId.	xs:date
Service	M			Specialized instruction or related / transitional service provided to this student.	StudentPlacementServiceType
ServiceCategory	O			Category of service (for example, whether it is instruction or a related / transitional service or a supplemental service). Typically designated by a state.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ServiceFundingSources	O				StudentPlacementServiceFundingSourceListType
ServicingPublicAgency	O			The GUID of the public agency (a district / LEA) to which the "ServicingSchool" reports / belongs.	IdRefType
@ SIF_RefObject	M				values: LEAInfo
ServicingSchool	O			The GUID of the school responsible for providing and coordinating this service (but physical location where service delivered could be different and is identified in SchoolWhereServiceDelivered).	IdRefType
@ SIF_RefObject	M				values: SchoolInfo
SchoolWhereServiceDelivered	O			The GUID of the school where the service is delivered.	IdRefType
@ SIF_RefObject	M				values: SchoolInfo
ServiceProviderType	O			Used for an individual providing the service. Review by state / program, may be required. Service provider title (such as Physical Therapist or Psychologist).	ServiceProviderTypeType
AgencyType	O			Identifies an agency or clinic that will provide the specified service.	xs:normalizedString
ServiceProviderName	O			The name of the person who delivers the service.	xs:normalizedString
ServiceSetting	O			Setting where service is provided (Regular Class, Resource Room, Homebound, Detention Center, etc.).	ServiceSettingType
WhenServiceProvided	O			General timing of service delivery relative to school calendar / schedule.	WhenServiceProvidedType
LatestStartDate	O			Date by which service is supposed to start for this student.	xs:date
StartDate	O			Actual date this service began for this student.	xs:date
EndDate	O			Actual date this service ended for this student.	xs:date
FrequencyTime	O			Code for the frequency that the service is provided.	FrequencyTimeType
DirectTime	O			Number of units of time per session spent directly providing the service to the student.	SessionDurationType
IndirectTime	O			Number of units of time per session NOT spent directly providing the service to the student but rather spent providing consultation services to someone related to the student (e.g. parent, a general ed teacher, a new service provider, etc.).	SessionDurationType
TotalServiceDuration	O			Total of the direct and indirect time as it relates to the FrequencyTime; e.g., DirectTime 60 + IndirectTime 30 = 90.	SessionDurationType
IncludedInSpecialEducationFTE	O			Indicates whether the direct time for this service is included in the calculation of a student's special education FTE.	xs:boolean
SpecialNeedsTransportation	O			Indicates whether the student requires transportation to the location of Placement/Service.	xs:boolean
AssistiveTechnology	O			Indicates whether the student requires assistive technology for this Placement/Service.	xs:boolean
EntryPerson	O			Identification / name of the person who created the transaction that led to the creation of this instance of the object.	xs:normalizedString
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.14.2.1: StudentPlacement

```

JSON XML
<StudentPlacement RefId="A3E3A8258A751010E3A00000001A552" StudentParticipationRefId="D3E348259D75101A8C3000A001A1652" StudentPersonalRefId="A2E34F59A742C1A8"
  <StudentPlacementAsOfDate>2006-07-13</StudentPlacementAsOfDate>
  <Service>
    <Code>P29</Code>
    <OtherCodeList>
      <OtherCode Codeset="StatePriority">B829</OtherCode>
    </OtherCodeList>
  </Service>
  </StudentPlacement>
  
```

Example 3.14.2-1: StudentPlacement

3.14.3 StudentSpecialEducationSummary

This object provides a summary of a student's participation and placement in special education programs for a given school for a given school year, reflecting the known or calculated values at the time (SummaryDate) the summary was provided. As such, there may be multiple instances of this object for a student in a school over the course of a school year. SIF_Events are not supported by this object.

SIF_Events are not reported for this object.

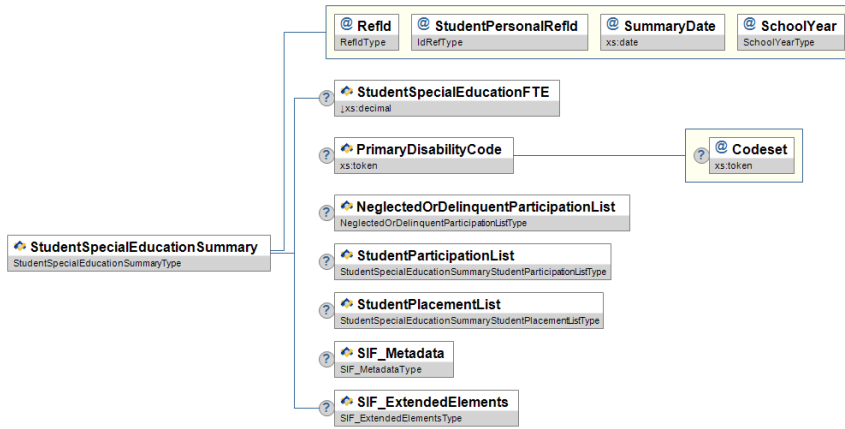


Figure 3.14.3-1: StudentSpecialEducationSummary

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentSpecialEducationSummary				This object provides a summary of a student's participation and placement in special education programs for a given school for a given school year, reflecting the known or calculated values at the time (SummaryDate) the summary was provided. As such, there may be multiple instances of this object for a student in a school over the course of a school year. SIF_Events are not supported by this object.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
@ StudentPersonalRefId	M			The Id (GUID) of the student for whom this special education information is being reported.	IdRefType
@ SummaryDate	M			The date the data summary was taken. Some elements are provided/calculated as of the SummaryDate, and some are provided as of the date the object is requested (i.e., some can be historical and some will represent the last information available/last known value).	xs:date
@ SchoolYear	M			School year for which the information is applicable.	SchoolYearType
StudentSpecialEducationFTE	O			Calculated ratio of time the student is in a special ed setting. Values range from 0.00 to 1.00. If the student is in a special ed setting 25% of the time, the value is .25; if 100% of the time, the value is 1.00.	xs:decimal
PrimaryDisabilityCode	O			A code that identifies the primary disability type for a student who is eligible for services under the Individuals with Disabilities Education Act (IDEA) and who has an Individualized Education Program (IEP). Since primary disability is time-dependent a student's primary disability can change through a school year or reporting period.	xs:token
@ Codaset	O			A unique indicator (usually a URL) that points to the codaset used.	xs:token
NeglectedOrDelinquentParticipationList	O			The type and number of days a student participated in a Neglected or Delinquent program during the reporting period.	NeglectedOrDelinquentParticipationListType
StudentParticipationList	O			Collects elements of interest for each StudentParticipation.	StudentSpecialEducationSummaryStudentParticipationListType
StudentPlacementList	O			This list contains information that describes each specific instructional, related or transitional service that has been prescribed or recommended in the program plan developed for a student who has been placed in an individualized special program.	StudentSpecialEducationSummaryStudentPlacementListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.14.3-1: StudentSpecialEducationSummary

```

JSON
XML
<StudentSpecialEducationSummary RefId="35907510120090780C32A00A8510332" StudentPersonalRefId="A2E34F596742C1A483011CC002816332" SummaryDate="2003-10-01" Sch
<StudentSpecialEducationFTE>0.45</StudentSpecialEducationFTE>
<PrimaryDisabilityCode>2124</PrimaryDisabilityCode>
<NeglectedOrDelinquentParticipationList>
<NeglectedOrDelinquentParticipation>
<SIF_MetadataType>

```

Example 3.14.3-1: StudentSpecialEducationSummary - Example 1

3.14.4 TestAccommodation

This object provides information about test accommodation(s) required for a particular student who is registered to take a particular state test or who is about to be assigned by a teacher to take a course-related test, is participating in one or more special program(s) and for whom this set of test accommodations is prescribed in one or more specific special program plan(s). At the time that a new special program plan is developed for the student, any needed test / instructional accommodations must be specified as a part of that plan. During the life of a plan, a test accommodation may be added or removed.

Note that although a test accommodation may not be permitted for a state assessment program because it nullifies the results, it may be used for daily instruction. However, in order to use a test accommodation for a state assessment program, the test accommodation must be specified in the program plan and should be part of daily instruction. The request for this object must supply the information necessary to identify the specific student and either a specific high-stakes test or a subject area.

SIF_Events are not reported for this object.

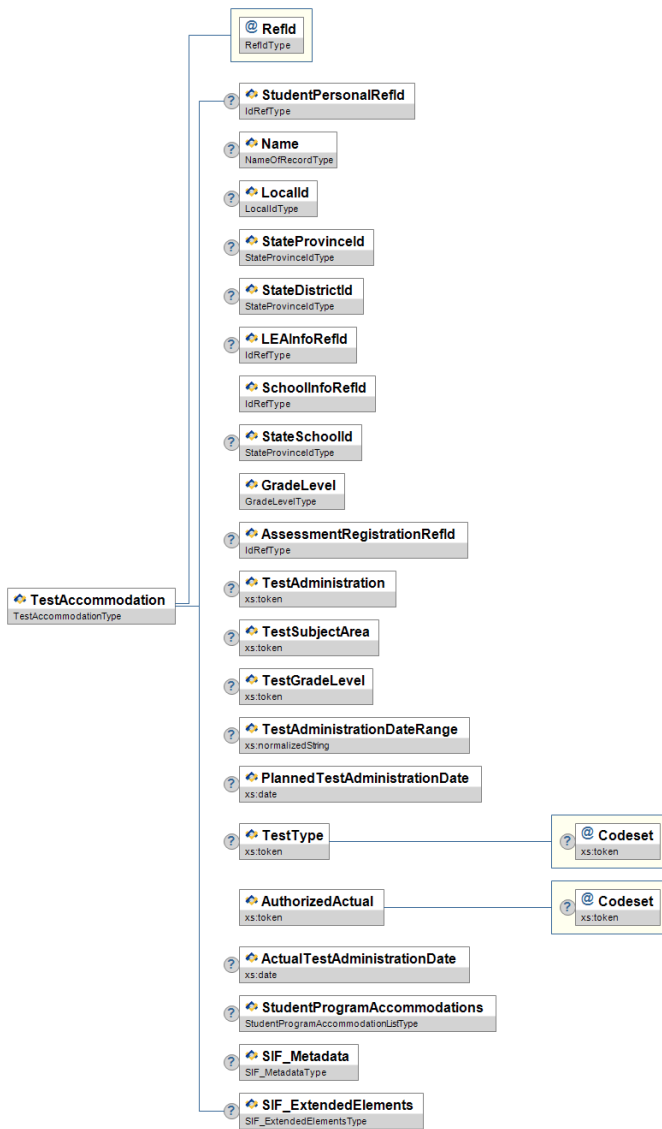


Figure 3J44-1: TestAccommodation

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
TestAccommodation			002621 https://ceds.ed.gov/element/002621	This object provides information about test accommodation(s) required for a particular student who is registered to take a particular state test or who is about to be assigned by a teacher to take a course-related test, is participating in one or more special program(s) and for whom this set of test accommodations is prescribed in one or more specific special program plan(s).	
@ RefId	M		000368 https://ceds.ed.gov/element/000368	Unique Id for this set of test accommodations required for a particular student who is participating in a special program and for whom this set of test accommodation(s) is recommended / prescribed for this test administration (specific subject area and level) in a specific special programs plan.	RefIdType
StudentPersonalRefId	C			Reference to StudentPersonal object. Typically a vendor is allowed to receive a StateProvinceId or a student's Name, but not both together. The student must be identified by StudentPersonalRefId, or Name and LocalId, or StateProvinceId.	IdRefType
Name	C			The student's name as presented in StudentPersonal object, Name element with a Type of 02 (Current Legal Name). If Type 02 is not available, Type of 04 (Name of Record). Sub-elements to be used: LastName, FirstName, MiddleName.	NameOfRecordType
LocalId	C			The locally assigned identifier for this student.	LocalIdType
StateProvinceId	C			Reference to the state code identifying the student in the StudentPersonal object, as of the date of the response.	StateProvinceIdType
StateDistrictId	O			Reference to State code (StateProvinceId for LEAInfo) for the student's district of enrollment as of the date of the response (optional because school might be independent).	StateProvinceIdType
LEAInfoRefId	O			The RefId for the district to which the student's home school of enrollment belongs as of the date of the response (optional because school might be independent).	IdRefType
SchoolInfoRefId	M			The RefId for the student's home school of enrollment as of the date of the response.	IdRefType
StateSchoolId	O			Reference to State code (StateProvinceId for SchoolInfo) for student's home school of enrollment as of the date of the response (optional because state may not require).	StateProvinceIdType
GradeLevel	M			Code for the current actual grade placement of the student as of the date of the response from StudentSchoolEnrollment.	GradeLevelType
AssessmentRegistrationRefId	C		000126 https://ceds.ed.gov/element/000126	RefId for the student's registration / assignment to take a particular test (test name, subject area, level, grade level, type) at a particular time or within a particular timeframe. An assessment may also be identified by omitting this element and specifying the whole set (TestAdministration, TestSubjectArea, TestGradeLevel, TestAdministrationDateRange or PlannedTestAdministrationDate, and TestType).	IdRefType
TestAdministration	C			Abbreviated name of the test for which this set of accommodations is to be provided.	xs:token
TestSubjectArea	C			Subject area of the test. Teachers may only supply this element, while a high-stakes test will supply the whole set (TestAdministration, TestSubjectArea, TestGradeLevel, TestAdministrationDateRange or PlannedTestAdministrationDate, and TestType).	xs:token
TestGradeLevel	C			Grade level of the test.	xs:token
TestAdministrationDateRange	C			General date range of the test (e.g. "Spring 2005"). Date is identified by either TestAdministrationDateRange or PlannedTestAdministrationDate	xs:normalizedString
PlannedTestAdministrationDate	C			The date the test is planned to be administered. Should contain the most current known date (Date is needed in order to identify accommodations to be sent—accommodations are date-dependent).	xs:date
TestType	O			Identifies whether the test the student is to take is a standard or alternate.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
AuthorizedActual	M			Indicator - Identifies whether accommodations in this object are authorized or were actually used.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ActualTestAdministrationDate	O		000022 https://ceds.ed.gov/element/000022	The date the test was actually administered.	xs:date
StudentProgramAccommodations	O			Container. If the requested student no longer requires any accommodations, this element should be omitted.	StudentProgramAccommodationListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementaType

Table 3.14.4-1: TestAccommodation

```

JSON XML
<TestAccommodation RefId="A0634F59A742C1A483D11CC002B163A2">
  <StudentPersonalRefId>A2E34F59A742C1A483D11CC002B163A2</StudentPersonalRefId>
  <StateProvinceId>928348</StateProvinceId>
  <LEAInfoRefId>F34F59A742C1A483D11CC002B163A2</LEAInfoRefId>
  <SchoolInfoRefId>0939442834A483D11CC002B163A2</SchoolInfoRefId>
  <StateSchoolId>98283</StateSchoolId>

```

Example 3.14.4-1: TestAccommodation

3.15 Student Information Systems Working Group

The Student Information Systems Working Group provides maximum interoperability between K-12 applications that need to exchange SIS information such as student, teacher, school, and enrollment using SIF by designing SIF data objects that are easy to understand, implement and extend, and by making the communication between applications as efficient as possible by ensuring that only the minimum required amount of data is exchanged in each transaction.

3.15.1 Address

This object contains address data.

SIF_Events are reported for this object.

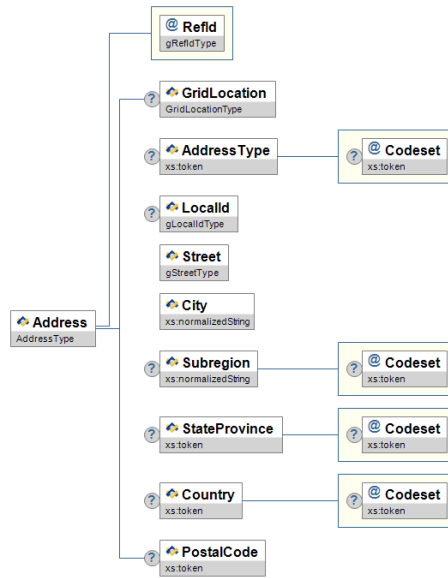


Figure 3.15.1-1: Address

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
Address				This object contains address data.	
@ RefId	M				gRefIdType
GridLocation	O				GridLocationType
AddressType	O			The type or category of this address. For example, mailing, physical, permanent, etc.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
LocalId	O				gLocalIdType
Street	M				gStreetType
City	M				xs:normalizedString
Subregion	O			A second-order subdivision of the country, e.g. county, shire.	xs:normalizedString
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
StateProvince	O			A first-order national subdivision of the country, e.g. state, province.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Country	O				xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
PostalCode	O			A number that identifies each postal delivery area in a country used as a portion of an address	xs:token

Table 3.15.1-1: Address

```

JSON
XML
<Address RefId="8120940c-3f1a-40b6-b028-662085878580">
  <GridLocation>
    <Latitude>33</Latitude>
    <Longitude>-119</Longitude>
  </GridLocation>
  <AddressType Codeset="BES&amp;h;">Home</AddressType>
</Address>
    
```

Example 3.15.1-1: Address

3.15.2 AttendanceCodeInfo

This object provides information about a particular attendance code, allows applications to synchronize each other's attendance code tables, or provides a dynamic list of attendance codes. SIF_Events are reported for this object.

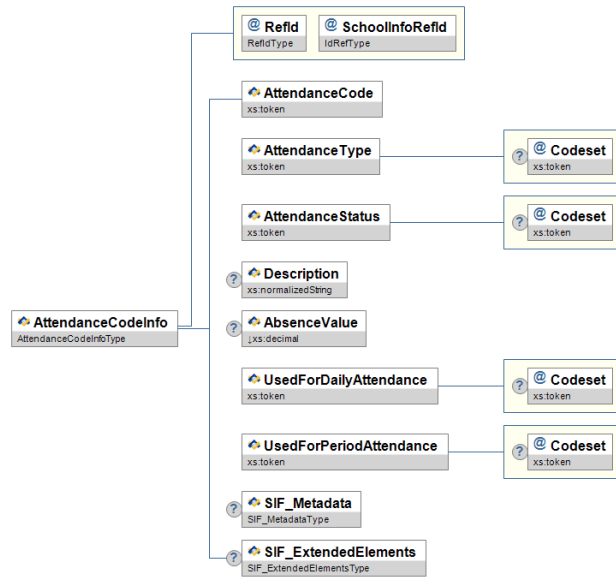


Figure 3.15.2-1: AttendanceCodeInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
AttendanceCodeInfo				This object provides information about a particular attendance code, allows applications to synchronize each other's attendance code tables, or provides a dynamic list of attendance codes.	
@ RefId	M			The Id (GUID) that uniquely identifies this AttendanceCodeInfo entity.	IdRefType
@ SchoolInfoRefId	M			The Id (GUID) that identifies the school where the attendance code is used.	IdRefType
AttendanceCode	M			Locally defined code for attendance.	xs:token
AttendanceType	M		000601 https://ceds.ed.gov/element/000601	Type of attendance code.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
AttendanceStatus	M		000076 https://ceds.ed.gov/element/000076	Excused status of the attendance code.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Description	O			The text description of the attendance code.	xs:normalizedString
AbsenceValue	O			The amount of absence represented by AttendanceCode, up to three decimal places.	xs:decimal <div style="border: 1px solid black; padding: 2px; width: fit-content;"> xs:decimal 0 xs:fractionDigits 3 </div>
UsedForDailyAttendance	M			Is this attendance code used for daily attendance?	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
UsedForPeriodAttendance	M			Is this attendance code used for period attendance?	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.2-1: AttendanceCodeInfo

```

JSON XML
<AttendanceCodeInfo RefId="44A399D063A2E35B359D75101A8C3D0" SchoolInfoRefId="CE067A888B247690E348F113D2314A">
  <AttendanceCode>38</AttendanceCode>
  <AttendanceType>2b4e4a</AttendanceType>
  <AttendanceStatus>Excused</AttendanceStatus>
  <Description>Child is absent with appropriate, legal excuse.</Description>
  <AbsenceValue>1.0</AbsenceValue>

```

Example 3.15.2.1: AttendanceCodeInfo

3.15.3 BellSchedule

The BellSchedule is an object that a SIS (or another student scheduling application) can utilize to provide school / school year scheduling information, including timetable days, periods and bell schedules to other applications that may require this detailed scheduling information. Additionally, the MeetingTime common element, which is utilized by the SectionInfo object's MeetingTimeList, provides references to these new timetable days and periods in order to provide this detailed scheduling information about each section. Finally, the CalendarDate object provides the bell schedules and timetable days for each calendar date to subscribers needing this detailed information about when sections actually meet. Events will be published for the BellSchedule object.

SIF_Events are reported for this object.

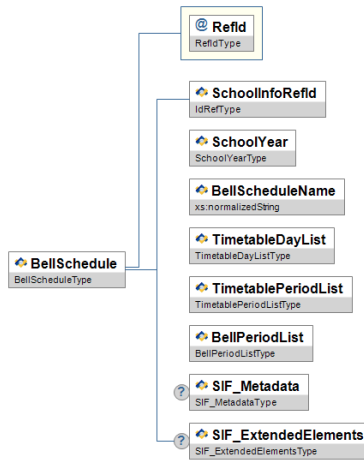


Figure 3.15.3-1: BellSchedule

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
BellSchedule				This object provides the bell schedule information for a school and school year, including timetable days, periods and bell schedules.	
@ Refid	M			The Id (GUID) that uniquely identifies an instance of the object.	RefIdType
SchoolInfoRefid	M			The Id (GUID) that uniquely identifies the school to which this bell schedule information applies	IdRefType
SchoolYear	M			School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., "2007" for the 2006-07 school year).	SchoolYearType
BellScheduleName	M		000598 https://ceds.ed.gov/element/000598	A name that uniquely identifies a particular BellSchedule from others for the same school and year.	xs:noramlizedString
TimetableDayList	M			The timetable days for this school year bell schedule. This essentially provides a list of the time day identifiers that are used in the BellPeriod definitions below with some additional properties for each. The identifiers defined here may be referenced by other objects / elements like MeetingTime.	TimetableDayListType
TimetablePeriodList	M			The timetable periods for this school year bell schedule. This essentially provides a list of the time period identifiers that are used in the BellPeriod definitions below with some addition properties for each. The identifiers defined here may be referenced by other objects / elements like MeetingTime.	TimetablePeriodListType
BellPeriodList	M			The bell periods for this school year bell schedule.	BellPeriodListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.3-1: BellSchedule

JSON XML

```
<BellSchedule RefId="A157879C10AC744E290A2F718B89083">
  <SchoolInfoRefid>97A1485E1C97145C0A4E118011282754</SchoolInfoRefid>
  <SchoolYear>2009</SchoolYear>
  <BellScheduleName>High School Bell Schedule</BellScheduleName>
  <TimetableDayList>
  </TimetableDayList>
</BellSchedule>
```

Example 3.15.3-1: BellSchedule - Example 1

3.15.4 CalendarDate

This object defines information related to a school calendar day in a given school calendar year. If both CalendarDate and CalendarSummary objects are supported, there must be an instance of this object for each date between CalendarSummary StartDate and EndDate, inclusive. SIF_Events are reported for this object.

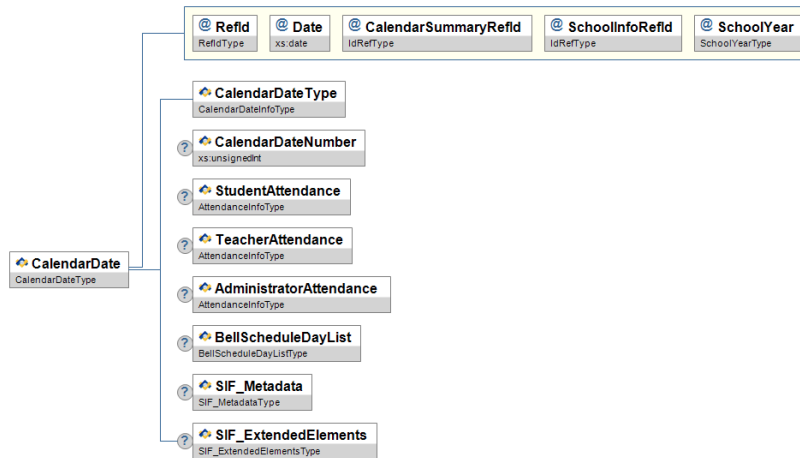


Figure 3.15.4-1: CalendarDate

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
CalendarDate				This object defines information related to a school calendar day in a given school calendar year. If both CalendarDate and CalendarSummary objects are supported, there must be an instance of this object for each date between CalendarSummary StartDate and EndDate, inclusive.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
@ Date	M		000243 https://ceds.ed.gov/element/000243	A specific school day that occurs within the school year.	xs:date
@ CalendarSummaryRefId	M			The Id (GUID) of the calendar summary in which this calendar date is.	IdRefType
@ SchoolInfoRefId	M			The Id (GUID) of the school for which this calendar information is being reported.	IdRefType
@ SchoolYear	M			School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., "2007" for the 2006-07 school year).	SchoolYearType
CalendarDateType	M			Calendar date type information.	CalendarDateInfoType
CalendarDateNumber	O			Order in which the calendar date falls within the school calendar.	xsi:unsignedInt
StudentAttendance	O			Information describing how the day relates to student attendance.	AttendanceInfoType
TeacherAttendance	O			Information describing how the day relates to teacher attendance.	AttendanceInfoType
AdministratorAttendance	O			Information describing how the day relates to administrator attendance.	AttendanceInfoType
BellScheduleDayList	O			A list of the bell schedules and the timetable day from that bell schedule to be used for the calendar date	BellScheduleDayListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.4-1: CalendarDate

JSON XML

```
<CalendarDate RefId="359075101AD0A9D7A8C3DAD0A85103A2" Date="2007-08-31" CalendarSummaryRefId="B5739375800AC4CC38568B2754114AA" SchoolInfoRefId="B7A34E541C97"
<CalendarDateType>
<Code>0845</Code>
<OtherCodeLists>
<OtherCode Codesets="StateProvince">20</OtherCode>
<OtherCode Codesets="Local">16</OtherCode>
```

Example 3.15.4-1: CalendarDate - Example 1

JSON XML

```
<CalendarDate RefId="359075101AD0A9D7A8C3DAD0A85103A2" Date="2007-08-31" CalendarSummaryRefId="B5739375800AC4CC38568B2754114AA" SchoolInfoRefId="B7A34E541C97"
<CalendarDateType>
<Code>0845</Code>
<OtherCodeLists>
<OtherCode Codesets="StateProvince">20</OtherCode>
<OtherCode Codesets="Local">16</OtherCode>
```

Example 3.15.4-2: CalendarDate - Example 2

3.15.5 CalendarSummary

This object provides a summary of a school's calendar information for a given school year. A school may have more than one calendar per school year (e.g., one calendar for Kindergarten students, one for special education students, one for seniors, or one for each calendar track), and each may have different days in session, start and end dates, minutes per day, instructional minutes, etc.

SIF_Events are reported for this object.

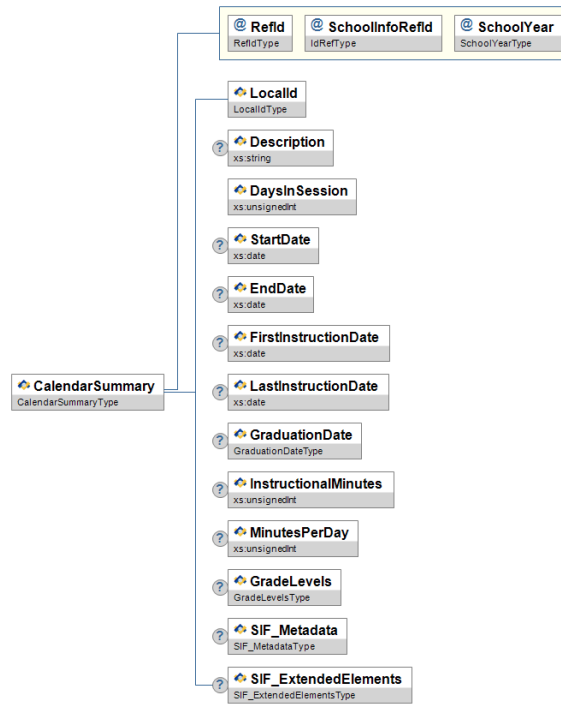


Figure 3.15.5-1: CalendarSummary

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
CalendarSummary				This object provides a summary of a school's calendar information for a given school year. A school may have more than one calendar per school year (e.g., one calendar for Kindergarten students, one for special education students, one for seniors, or one for each calendar track), and each may have different days in session, start and end dates, minutes per day, instructional minutes, etc.	
@ RefId	M			The Id (GUID) of the calendar to which this information relates.	RefIdType
@ SchoolInfoRefId	M			The Id (GUID) of the school for which this calendar information is being reported.	IdRefType
@ SchoolYear	M		000243 https://ceds.ed.gov/element/000243	School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., "2007" for the 2006-07 school year).	SchoolYearType
LocalId	M		000494 https://ceds.ed.gov/element/000494	The locally assigned identifier for this calendar.	LocalIdType
Description	O		000495 https://ceds.ed.gov/element/000495	Textual description of the school calendar.	xs:string
DaysInSession	M		000496 https://ceds.ed.gov/element/000496	The total number of days that the school was or is anticipated to be in session during the school year. Also included are days on which the education institution facility is closed and the student body as a whole is engaged in planned activities off-campus under the guidance and direction of staff members.	xs:unsignedInt
StartDate	O			The first calendar date, whether or not instruction was provided. If both CalendarSummary and CalendarDate objects are supported, StartDate must be the date of the first chronological instance of CalendarDate for the school's calendar.	xs:date
EndDate	O			The last calendar date, whether or not instruction was provided. If both CalendarSummary and CalendarDate objects are supported, EndDate must be the last chronological instance of CalendarDate for the school's calendar.	xs:date
FirstInstructionDate	O		000497 https://ceds.ed.gov/element/000497	The first day of student instruction.	xs:date
LastInstructionDate	O		000498 https://ceds.ed.gov/element/000498	The last day of student instruction (including days or times that students are present for purposes of testing and/or evaluation, but not including whole or part-days whose sole purposes is for distribution of report cards).	xs:date
GraduationDate	O			Date of graduation ceremony.	GraduationDateType
InstructionalMinutes	O		000244 https://ceds.ed.gov/element/000244	The total number of instructional minutes for this calendar for the school year.	xs:unsignedInt
MinutesPerDay	O		000500 https://ceds.ed.gov/element/000500	The number of minutes in the day in which the school is normally in session.	xs:unsignedInt
GradeLevels	O			Collection of grade levels applicable to this school calendar.	GradeLevelsType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.5-1: CalendarSummary

```

JSON XML
<CalendarSummary RefId="85739375800AC0C63850802754114AA" SchoolInfoRefId="87A342561C97345C0A48118811282753" SchoolYear="2005">
  <LocalId>1233211k/LocalId</LocalId>
  <Description>Elementary School Calendar</Description>
  <DaysInSession>180</DaysInSession>
  <FirstInstructionDate>2006-09-05</FirstInstructionDate>
  <LastInstructionDate>2007-06-15</LastInstructionDate>
</CalendarSummary>
    
```

Example 3.15.5-1: CalendarSummary

3.15.6 DisciplineIncident

This object provides information on incidents involving violence, weapons, drugs, and other safety and discipline issues.

SIF_Events are reported for this object.

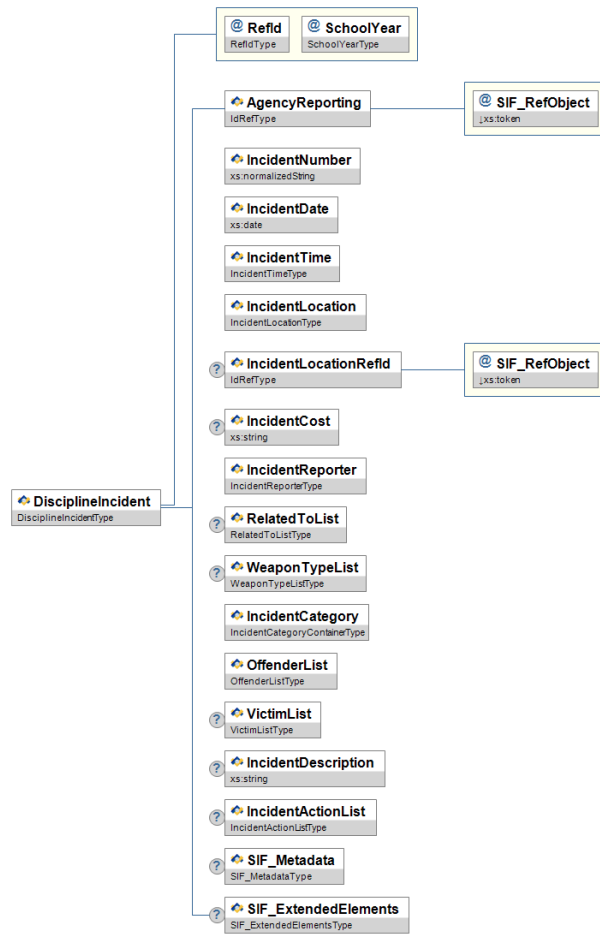


Figure 3.15.6-1: DisciplineIncident

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
DisciplineIncident				This object provides information on incidents involving violence, weapons, drugs, and other safety and discipline issues.	
@ RefId	M			The unique identifier (GUID) of this discipline incident.	RefIdType
@ SchoolYear	M			School year in which the incident occurred, and for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., "2007" for the 2006-07 school year).	SchoolYearType
AgencyReporting	M			The Id (GUID) of the school or LEA reporting the incident, usually the school in which the incident occurred.	IdRefType
@ SIF_RefObject	M			The name of the SIF object to which the GUID relates.	values: SchoolInfo LEAInfo
IncidentNumber	M		000501 https://ceds.ed.gov/element/000501	The locally-defined unique identifier (within the school or school district) to identify this specific incident or occurrence.	xs:normalizedString
IncidentDate	M		000502 https://ceds.ed.gov/element/000502	The date when the incident occurred.	xs:date
IncidentTime	M		000503 https://ceds.ed.gov/element/000503	The time when the incident occurred.	IncidentTimeType
IncidentLocation	M		000617 https://ceds.ed.gov/element/000617	The locally-defined identifier or description of the location where the incident occurred.	IncidentLocationType
IncidentLocationRefId	O			GUID of the SIF object that relates to the school or location where the incident occurred, if applicable.	IdRefType
@ SIF_RefObject	M			The name of the SIF object to which the GUID relates.	values: SchoolInfo LocationInfo
IncidentCost	O			If the incident resulted in a quantifiable monetary loss for any entity involved, identify and record the value of that loss. Cost may be reported by specific monetary amount or range.	xs:string
IncidentReporter	M		000507 https://ceds.ed.gov/element/000507	Information regarding the individual who reported the incident.	IncidentReporterType
RelatedToList	O			List of categories to which the incident is related.	RelatedToListType
WeaponTypeList	C			List of weapons involved in the incident. If the incident involves weapons, the element must have a value. Each weapon used in the incident is identified by a WeaponType entry. When multiple weapons of a single type are used, each weapon has a separate entry in this list. Weapons used by individual offenders are also reported in WeaponTypeList entries associated to the offender.	WeaponTypeListType
IncidentCategory	M			The category or description for this incident.	IncidentCategoryContainerType
OffenderList	M			List of offenders.	OffenderListType
VictimList	C			List of victim(s) if the incident is directed toward specific persons or their property.	VictimListType
IncidentDescription	O		000508 https://ceds.ed.gov/element/000508	A long text description of full details and a report of what occurred.	xs:string
IncidentActionList	O			List of actions taken on the incident, regardless of actions relating to individual offenders.	IncidentActionListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.6-1: DisciplineIncident

```

JSON XML
<DisciplineIncident RefId="A1544ED564995254A4568E8FFC5106B01" SchoolYear="2007">
  <AgencyReporting SIF_RefObject="SchoolInfo" Id="9847987235489729AAA73011B83656C3" AgencyReporting>
    <IncidentNumber>56501</IncidentNumber>
    <IncidentDate>2007-01-14</IncidentDate>
    <IncidentTime type="100">131201305</IncidentTime>
    <IncidentLocation type="3014">232</IncidentLocation>
  </AgencyReporting>
</DisciplineIncident>
    
```

Example 3.15.6-1: Discipline Incident

3.15.7 LEAInfo

This object contains information about a school district or other Local Educational Agency (LEA).

SIF_Events are reported for this object.

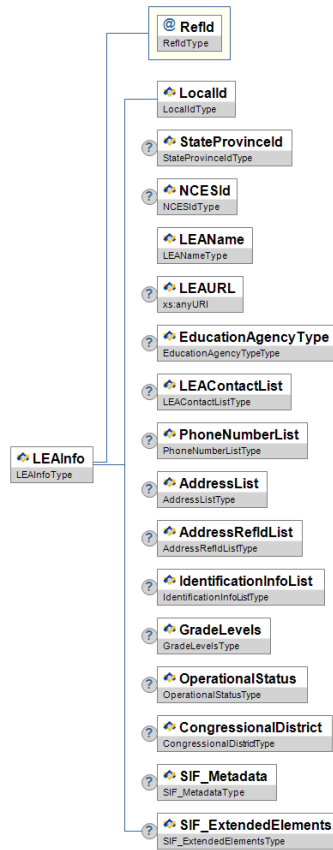


Figure 3.15.7-1: LEAInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
LEAInfo				This object contains information about a school district or other Local Educational Agency (LEA).	
@ RefId	M			The GUID of the LEA whose information this is.	RefIdType
LocalId	M		000365 https://ceds.ed.gov/element/000365	The locally-assigned identifier for this LEA.	LocalIdType
StateProvinceId	O			The state-assigned identifier for this LEA.	StateProvinceIdType
NCESId	O			The NCES-assigned identifier for this LEA.	NCESIdType
LEAName	M			Name of LEA.	LEANameType
LEAURL	O		000704 https://ceds.ed.gov/element/000704	URL for the LEA.	xs:anyURI
EducationAgencyType	O			The classification of the education agency within the geographic boundaries of a state according to the level of administrative and operational control.	EducationAgencyTypeType
LEAContactList	O				LEAContactListType
PhoneNumberList	O			The LEA's phone number(s).	PhoneNumberListType
AddressList	O			The LEA's address(es).	AddressListType
AddressRefIdList	O			References to separate potentially reusable, shared, or pre-verified addresses.	AddressRefIdListType
IdentificationInfoList	O			Other identification information associated with an LEA, such as the locally-defined code/identifier, etc.	IdentificationInfoListType
GradeLevels	O			Collection of grade levels offered in this LEA.	GradeLevelsType
OperationalStatus	O		000174 https://ceds.ed.gov/element/000174	Operational condition of an LEA.	OperationalStatusType
CongressionalDistrict	O			Number for the US congressional district where the LEA is located.	CongressionalDistrictType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.7-1: LEAInfo

```

JSON XML
<LEAInfo RefId="03E34B359075101ABC3D00AA01A1652">
  <LocalID>94627981</LocalID>
  <StateProvinceId>C234568</StateProvinceId>
  <CEESID>4215750</CEESID>
  <LEAName>Happy Meadow School District</LEAName>
  <LEAURL>http://www.happymeadow.edu</LEAURL>
</LEAInfo>
    
```

Example 3.15.7-1: LEAInfo

3.15.8 RoomInfo

This object contains all of the information about a school's room. This object may contain a reference to a room type so that it may represent anything from a gym, cafeteria, to a standard classroom. The StaffList element usually contains the homeroom teacher. SIF_Events are reported for this object.

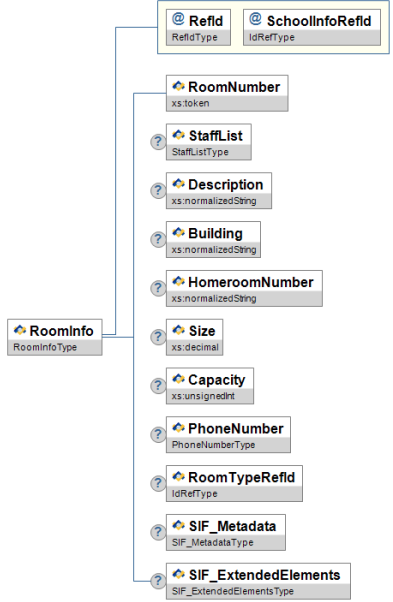


Figure 3.15.8-1: RoomInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
RoomInfo				This object contains all of the information about a school's room. This object may contain a reference to a room type so that it may represent anything from a gym, cafeteria, to a standard classroom. The StaffList element usually contains the homeroom teacher.	
@ RefId	M		000364 https://ceds.ed.gov/element/000364	GUID that identifies this room.	RefIdType
@ SchoolInfoRefId	M			GUID that identifies the school that this room belongs to.	IdRefType
RoomNumber	M		002507 https://ceds.ed.gov/element/002507	Room number as presented to the user/application.	xs:token
StaffList	O				StaffListType
Description	O			Friendly name that can be assigned to the room (e.g. Staff Cafeteria).	xs:normalizedString
Building	O			Extra building information. In the future Building could become its own object in which case this element will need to be changed to a RefId. Currently it is only required as a free text field.	xs:normalizedString
HomeroomNumber	O			When a room is designated as a homeroom it may have a different number. Usually blank when room is not a homeroom.	xs:normalizedString
Size	O			Size in square feet.	xs:decimal
Capacity	O			Number of persons (usually students) that this room can hold.	xs:unsignedInt
PhoneNumber	O			Phone number for the room	PhoneNumberType
RoomTypeRefId	O			GUID that identifies the room type assigned to this room.	IdRefType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.8-1: RoomInfo

```

JSON XML
<RoomInfo RefId="D3E34B359075101ABC3D00AA01A1652" SchoolInfoRefId="A2E35B359075101ABC3D00AA01A0000">
  <RoomNumber>101</RoomNumber>
  <StaffList>
    <StaffPersonalRefId>ABC3A2E35B359075101D00AA01A0000</StaffPersonalRefId>
  </StaffList>
  <Description>Room 101</Description>
</RoomInfo>
    
```

Example 3.15.8-1: RoomInfo

3.15.9 RoomType

This object identifies the type of room, i.e. gym, cafeteria, standard classroom, etc.

SIF_Events are reported for this object.

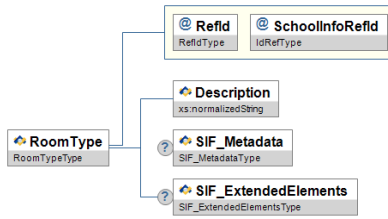


Figure 3.15.9-1: RoomType

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
RoomType				This object identifies the type of room, i.e. gym, cafeteria, standard classroom, etc.	
@ RefId	M			GUID that identifies this room type.	RefIdType
@ SchoolInfoRefId	M		000504 https://ceds.ed.gov/clement/000504	GUID that identifies the school that this room type belongs to.	IdRefType
Description	M			Description of the room type.	xs:normalizedString
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.9-1: RoomType

```

JSON
XML

<RoomType RefId="D2E348359D75101A8C3D00AA01A1652" SchoolInfoRefId="A2E358359D75101A8C3D00AA01A0900">
  <Description>
    <SIF_Metadata>
    </SIF_Metadata>
  </RoomType>
    
```

Example 3.15.9-1: RoomType

3.15.10 SchoolCourseInfo

This object is for course information.

SIF_Events are reported for this object.

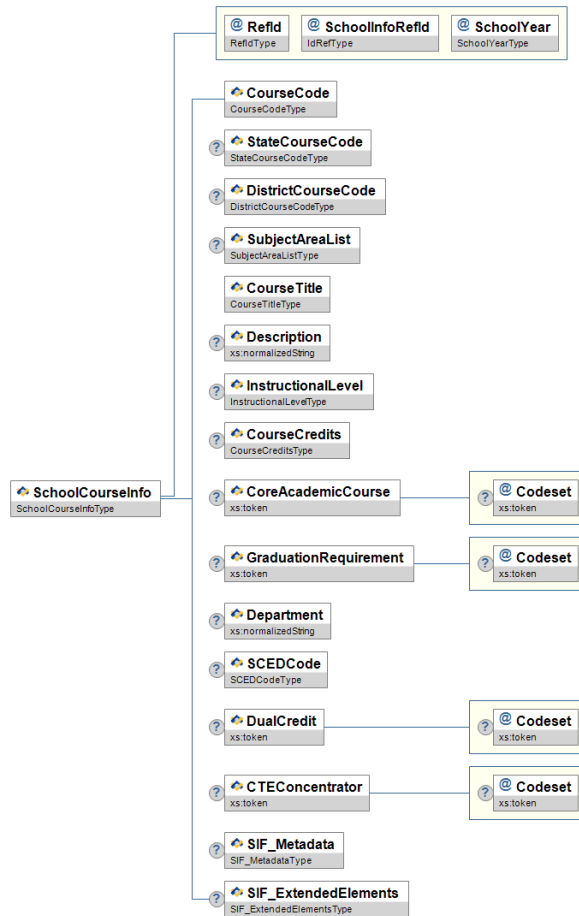


Figure 3.15.10-1: SchoolCourseInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
SchoolCourseInfo				This object is for course information.	
@ RefId	M		000056 https://ceds.ed.gov/element/000056	The Id (GUID) that uniquely identifies the school course.	RefIdType
@ SchoolInfoRefId	M			The Id (GUID) that identifies the school where the course is offered.	IdRefIdType
@ SchoolYear	M			School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g. 2007 for the 2006-07 school year).	SchoolYearType
CourseCode	M		000055 https://ceds.ed.gov/element/000055	School-defined local code for the course.	CourseCodeType
StateCourseCode	O			State-defined standard course code used to report information about courses.	StateCourseCodeType
DistrictCourseCode	O			The corresponding district course code.	DistrictCourseCodeType
SubjectAreaList	O			Subject matter areas.	SubjectAreaListType
CourseTitle	M		000067 https://ceds.ed.gov/element/000067	Title of the course.	CourseTitleType
Description	O			Textual description of the course.	xs:normalizedString
InstructionalLevel	O			An indication of the general nature and difficulty of instruction provided.	InstructionalLevelType
CourseCredits	O		000060 https://ceds.ed.gov/element/000060	The number of credits awarded upon course completion.	CourseCreditsType
CoreAcademicCourse	O		000013 https://ceds.ed.gov/element/000013	Does the course meet the state definition of a core academic course?	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
GraduationRequirement	O		000137 https://ceds.ed.gov/element/000137	Does the state require that the course be completed for graduation?	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Department	O			Department with jurisdiction over this course.	xs:normalizedString
SCEDCode	O			Course code from the School Codes for the Exchange of Data that describes the course content. NOTE: SCED codes currently only apply to secondary courses. This element may be sent with xsi:nil="true" or omitted for elementary courses.	SCEDCodeType
DualCredit	O			Indicates whether this course is applicable in having dual credits.	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
CTEConcentrator	O			Indicates whether this is a CTE concentrator for this course.	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.10.1: SchoolCourseInfo

```

JSON XML
<SchoolCourseInfo RefId="5D75101A8C3D00AA01A0000A2E35B35" SchoolInfoRefId="101A8C3D00AA01A0000A2E35B359075" SchoolYear="2006">
  <CourseCode>C3191</CourseCode>
  <StateCourseCode>08-001</StateCourseCode>
  <DistrictCourseCode>C3191</DistrictCourseCode>
  <SubjectAreaList>
    <SubjectArea>

```

Example 3.15.10.1: SchoolCourseInfo

3.15.11 SchoolInfo

This object contains information about the school.

SIF_Events are reported for this object.

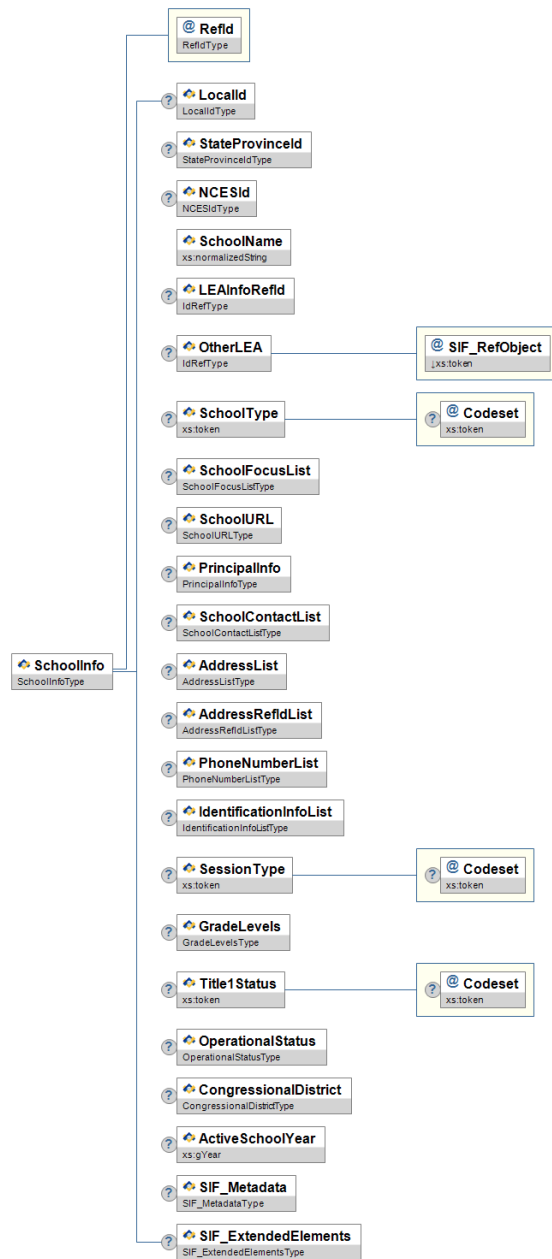


Figure 3.15.11-1: SchoolInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
SchoolInfo				This object contains information about the school.	
@ RefId	M			The GUID that identifies this school.	RefIdType
LocalId	O		000365 https://ceds.ed.gov/element/000365	The locally-assigned identifier for this school.	LocalIdType
StateProvinceId	O		000364 https://ceds.ed.gov/element/000364	The state-assigned identifier for this school.	StateProvinceIdType
NCESId	O			The NCES-assigned identifier for this school.	NCESIdType
SchoolName	M		000191 https://ceds.ed.gov/element/000191	Name of school.	NormalizedString
LEAInfoRefId	O			The Id (GUID) that references the school district of which this school is a member.	IdRefType
OtherLEA	O			The Id (GUID) of another related education agency, such as a regional service agency.	IdRefType
@ SIF_RefObject	M			The name of the object reference.	values: LEAInfo
SchoolType	O		000242 https://ceds.ed.gov/element/000242	An indication of the level of the educational institution.	ss:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	ss:token
SchoolFocusList	O				SchoolFocusListType
SchoolURL	O		000704 https://ceds.ed.gov/element/000704	URL for the school.	SchoolURLType
PrincipalInfo	O			Information about the school's principal.	PrincipalInfoType
SchoolContactList	O				SchoolContactListType
AddressList	O			The school's addresses.	AddressListType
AddressRefIdList	O			References to separate potentially reusable, shared, or pre-verified addresses.	AddressRefIdListType
PhoneNumberList	O			The school's phone numbers.	PhoneNumberListType
IdentificationInfoList	O			Other identification information associated with a school, such as the locally-defined code/identifier, etc.	IdentificationInfoListType
SessionType	O			Code that specifies the session type.	ss:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	ss:token
GradeLevels	O			Collection of grade levels offered in this school.	GradeLevelType
TitleStatus	O		000285 https://ceds.ed.gov/element/000285	Status of the school's Title I eligibility. Certain schools are designated under appropriate state and federal regulations as being eligible for participation in programs authorized by Title I of Public Law 103-382.	ss:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	ss:token
OperationalStatus	O		000533 https://ceds.ed.gov/element/000533	Operational condition of a school.	OperationalStatusType
CongressionalDistrict	O			Number for the US congressional district of the school location.	CongressionalDistrictType
ActiveSchoolYear	O			School year for active (current) year, expressed as the four-digit year in which the school year ends (e.g. 2012 for the 2011-12 school year).	ss:year
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.11-1: SchoolInfo

```

JSON XML
<SchoolInfo RefId="03E348359275101A8C1D00A001A1652">
  <LocalId>944379881</LocalId>
  <StateProvinceId>C23494814/StateProvinceId>
  <NCESId>42157603045</NCESId>
  <SchoolName>Lacoma High School</SchoolName>
  <LEAInfoRefId>7964844886244A52948C6380173276c/LEAInfoRefId>

```

Example 3.15.11-1: SchoolInfo

3.15.12 SectionCorrelation

This object provides information about the classes being correlated for some program purpose, for example, career tech or team scheduling.

SIF_Events are reported for this object.

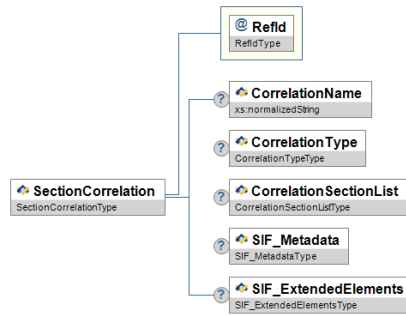


Figure 3.15.12-1: SectionCorrelation

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
SectionCorrelation				This object provides information about the classes being correlated for some program purpose, for example, career tech or team scheduling.	
@ Refid	M			The Id (GUID) that uniquely identifies this correlation.	RefidType
CorrelationName	O			The classes being correlated for some program purpose, for example, career tech or team scheduling.	xs.normalizedString
CorrelationType	O			The type of correlation.	CorrelationTypeType
CorrelationSectionList	O			The list of SectionInfo objects being correlated.	CorrelationSectionListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.12-1: SectionCorrelation

```

JSON
XML
<SectionCorrelation Refid="4472826109475834630883452918001">
  <CorrelationName>ComputerizedMilling</CorrelationName>
  <CorrelationType>
    <Code>C/Code>
    <OtherCodeLists>
      <OtherCode Codeset="Other">CH1</OtherCode>
    </OtherCodeLists>
  </CorrelationType>
</SectionCorrelation>
    
```

Example 3.15.12-1: SectionCorrelation

3.15.13 SectionInfo

This object provides information about the section—the specific time period a session of the course meets.

SIF_Events are reported for this object.

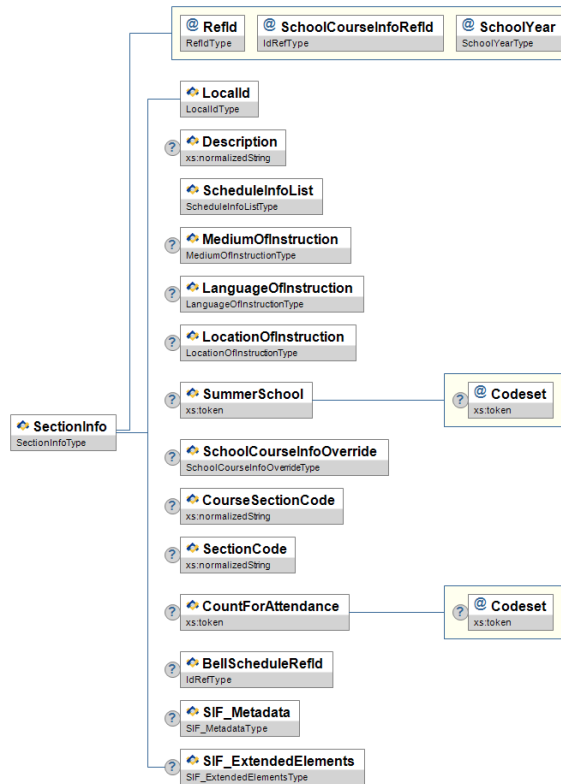


Figure 3.15.13-1: SectionInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
SectionInfo				This object provides information about the section—the specific time period a session of the course meets.	
@ RefId	M			The Id (GUID) that uniquely identifies this section entity.	RefIdType
@ SchoolCourseInfoRefId	M			The Id (GUID) that identifies the course being taught in this section.	IdRefType
@ SchoolYear	M			School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g. 2007 for the 2006-07 school year).	SchoolYearType
LocalId	M			The locally-assigned identifier for this course section.	LocalIdType
Description	O			Description of the course section.	xs:normalizedString
ScheduleInfoList	M				ScheduleInfoListType
MediumOfInstruction	O			Medium through which the student receives instructional communication from the teacher.	MediumOfInstructionType
LanguageOfInstruction	O			Language in which the section is taught.	LanguageOfInstructionType
LocationOfInstruction	O			Description of the location in which the section is taught.	LocationOfInstructionType
SummerSchool	O			Is this a summer school assignment?	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
SchoolCourseInfoOverride	O			Optional overrides of the course information for this section.	SchoolCourseInfoOverrideType
CourseSectionCode	O		000055 https://ceds.ed.gov/element/000055	A section code that is linked to a course. This should be a unique identifier within the school year and course (i.e. the class instance number for a course). For example, Algebra I, Section 23 is different from English II, Section 23.	xs:normalizedString
SectionCode	O			A unique identifier of the section for the school year and across courses (i.e. unique across all courses). For example, Algebra I sections range from 00122 to 00140 and English II courses range from 00141 to 00152.	xs:normalizedString
CountForAttendance	O			Indicates if attendance in this section is collected and used in attendance calculations.	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
BellScheduleRefId	O			The GUID of the bell schedule used by this section.	IdRefType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.13-1: SectionInfo

```

JSON XML
<SectionInfo RefId="03E34B359075101ABC3D00AA001A1652" SchoolCourseInfoRefId="A2E35B359075101ABC3D00AA001A0000" SchoolYear="2006">
  <LocalId>287-1</LocalId>
  <ScheduleInfoList>
    <ScheduleInfo TermInfoRefId="0998BC3227490063B97403434C5C2207">
      <TeacherList>
        <StaffPersonRefId>ABC3A2E35B359075101D00AA001A0000</StaffPersonRefId>
      </TeacherList>
    </ScheduleInfo>
  </ScheduleInfoList>
</SectionInfo>
    
```

Example 3.15.13-1: SectionInfo - Example 1

```

JSON XML
<SectionInfo RefId="03E34B359075101ABC3D00AA001A1652" SchoolCourseInfoRefId="A2E35B359075101ABC3D00AA001A0000" SchoolYear="2006">
  <LocalId>287-1</LocalId>
  <ScheduleInfoList>
    <ScheduleInfo TermInfoRefId="0998BC3227490063B97403434C5C2207">
      <TeacherList>
        <StaffPersonRefId>ABC3A2E35B359075101D00AA001A0000</StaffPersonRefId>
      </TeacherList>
    </ScheduleInfo>
  </ScheduleInfoList>
</SectionInfo>
    
```

Example 3.15.13-2: SectionInfo - Example 2

3.15.14 StaffAssignment

This object defines information related to a staff member's assignment(s); commonly, this will be a school assignment.

SIF_Events are reported for this object.

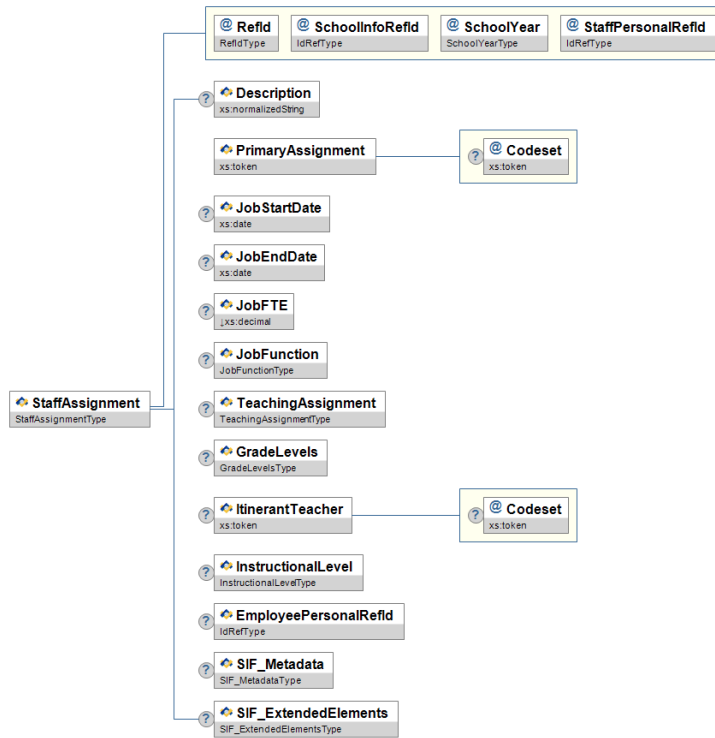


Figure 3.15.14-1: StaffAssignment

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StaffAssignment				This object defines information related to a staff member's assignment(s); commonly, this will be a school assignment.	
@ RefId	M			The GUID that uniquely identifies a particular staff assignment.	RefIdType
@ SchoolInfoRefId	M		000365 https://ceds.ed.gov/element/000365	The Id (GUID) that identifies the school where the staff member is assigned.	IdRefType
@ SchoolYear	M			School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., 2007 for the 2006-07 school year).	SchoolYearType
@ StaffPersonalRefId	M			Id (GUID) of this staff member, as represented in the StaffPersonal object.	IdRefType
Description	O			Short assignment description	xs.normalizedString
PrimaryAssignment	M			Is this the staff member's primary assignment? Note: There must be one and only one instance of the object with a yes value in this element per school year.	xs.token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs.token
JobStartDate	O		000143 https://ceds.ed.gov/element/000143	This is the date from which the staff assignment is valid (inclusive).	xs.date
JobEndDate	O		000646 https://ceds.ed.gov/element/000646	This is the date through which the staff assignment is valid (inclusive).	xs.date
JobFTE	O			Full-time job equivalent ratio for this assignment. (Format is x.xx; an employee who is full-time and who is 50% of their time on this assignment would be represented as 0.50)	xs.decimal
JobFunction	O			The purpose of the activities as related to students	JobFunctionType
TeachingAssignment	O			The teacher field taught by the individual	TeachingAssignmentType
GradeLevels	O			An indication of the grade level(s) the individual is assigned	GradeLevelsType
ItinerantTeacher	O		000528 https://ceds.ed.gov/element/000528	Is this staff itinerant for this assignment?	xs.token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs.token
InstructionalLevel	O			An indication of the general nature of instruction provided throughout a course.	InstructionalLevelType
EmployeePersonalRefId	O			A GUID referencing an EmployeePersonal object to be able to establish a link between HR employee objects and SIS staff objects.	IdRefType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.14-1: StaffAssignment

```

JSON
XML
<StaffAssignment RefId="D3E34B359D75101ABC3D00AA091A1652" SchoolInfoRefId="ABC3D3E34B359D75101D00AA091A1652" SchoolYear="2004" StaffPersonalRefId="D3E34B359D75101ABC3D00AA091A1652"
  <DescriptionFirst grade elementary teacher</Description>
  <PrimaryAssignmentType</PrimaryAssignmentType>
  <JobStartDate>2000-09-05</JobStartDate>
  <JobEndDate>2001-06-25</JobEndDate>
  <JobPTE>1.00</JobPTE>
  
```

Example 3.15.14-1: StaffAssignment

3.15.15 StaffEvaluation

This Staff Evaluation Object is to meet the new APPR Regulations from the Federal government and are being enforced by the states.

SIF_Events are reported for this object.

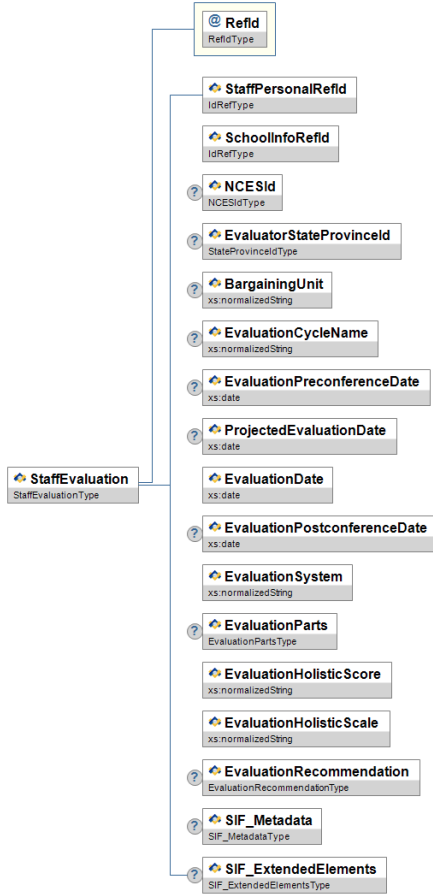


Figure 3.15.15-1: StaffEvaluation

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StaffEvaluation				This Staff Evaluation Object is to meet the new APPR Regulations from the Federal government and are being enforced by the states.	
@ RefId	M			The Id (GUID) that uniquely identifies this StaffEvaluation instance. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
StaffPersonalRefId	M			The Id (GUID) of the staff being evaluated.	IdRefType
SchoolInfoRefId	M			The Id (GUID) of the School the staff member resides and where they are being evaluated.	IdRefType
NCESId	O			The NCES-assigned identifier of the school or district where the evaluator resides.	NCESIdType
EvaluatorStateProvinceId	O			The identifier that has been assigned by the state to the administrator that is administering the evaluation	StateProvinceIdType
BargainingUnit	O			This is the unit that the person being observed is part of.	xs:normalizedString
EvaluationCycleName	O			The type of evaluation that will take place for that individual.	xs:normalizedString
EvaluationPreconferenceDate	O			When the Evaluation was first discussed and the goals for the evaluation were discussed.	xs:date
ProjectedEvaluationDate	O			When the evaluation is anticipated to happen.	xs:date
EvaluationDate	M			Date of when the evaluation actually was observed.	xs:date
EvaluationPostconferenceDate	O			Date of Postconference where the evaluation will be discussed.	xs:date
EvaluationSystem	M			This is the name of the tool being used.	xs:normalizedString
EvaluationParts	O			The set of the Evaluation Parts.	EvaluationPartsType
EvaluationHolisticScore	M			The overall Score for the evaluation.	xs:normalizedString
EvaluationHolisticScale	M			This is the overall Scale that is being used for the evaluation.	xs:normalizedString
EvaluationRecommendation	O			What was done because of a summative evaluation.	EvaluationRecommendationType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementType

Table 3.15.15-1: StaffEvaluation

JSON XML

```
<StaffEvaluation RefId="359075103AD0A907ABC3DA0A85103A2">
  <StaffPersonalRefId>CE48259075103ABC200A0A91A165A</StaffPersonalRefId>
  <SchoolInfoRefId>1947A8B93C29F73910F8C3827A239C81</SchoolInfoRefId>
  <NCESId>421575062049</NCESId>
  <EvaluatorStateProvinceId>145432765</EvaluatorStateProvinceId>
  <BargainingUnit>RTA</BargainingUnit>
</StaffEvaluation>
```

Example 3.15.15-1: StaffEvaluation

3.15.16 StaffPersonal

This object contains all the personal information relating to a staff member, who might be a teacher or other employee of the school or district.

SIF_Events are reported for this object.

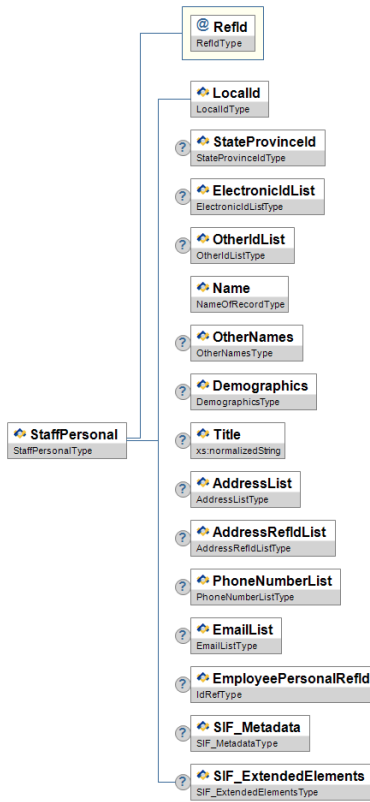


Figure 3.15.16-1: StaffPersonal

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StaffPersonal				This object contains all the personal information relating to a staff member, who might be a teacher or other employee of the school or district.	
@ RefId	M			The GUID of the staff member.	RefIdType
LocalId	M			The locally-assigned identifier for this staff member.	LocalIdType
StateProvinceId	O		000364 https://ceds.ed.gov/element/000364	The state-assigned identifier for this staff member.	StateProvinceIdType
ElectronicIdList	O			Electronic identifier(s) associated with this entity.	ElectronicIdListType
OtherIdList	O			Lists all "other" identifiers associated with the student.	OtherIdListType
Name	M			Name of the staff member. Note: Type value of 04 must be used here.	NameOfRecordType
OtherNames	O			Previous, alternate or other names or aliases associated with the staff member.	OtherNamesType
Demographics	O			This element contains information related to staff member demographics.	DemographicType
Title	O		000087 https://ceds.ed.gov/element/000087	The staff member's title.	xs:normalizedString
AddressList	O			The staff member's address(es).	AddressListType
AddressRefIdList	O			References to separate potentially reusable, shared, or pre-verified addresses.	AddressRefIdListType
PhoneNumberList	O			The staff member's phone number(s).	PhoneNumberListType
EmailList	O			The staff member's e-mail address(es).	EmailListType
EmployeePersonalRefId	O			Allows for a linkage to the HR/Fin EmployeePersonal object.	IdRefType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.16-1: StaffPersonal

```

JSON XML
<StaffPersonal RefId="03E34F419D751018C3D00AA01A1652">
  <LocalId>946279881</LocalId>
  <StateProvinceId>C2345681</StateProvinceId>
  <ElectronicIdList>
    <ElectronicId Type="Barcode">206655</ElectronicId>
  </ElectronicIdList>

```

Example 3.15.16-1: StaffPersonal

3.15.17 StaffSectionAssignment

This object contains information about a teacher's assignment in a section.

SIF_Events are reported for this object.

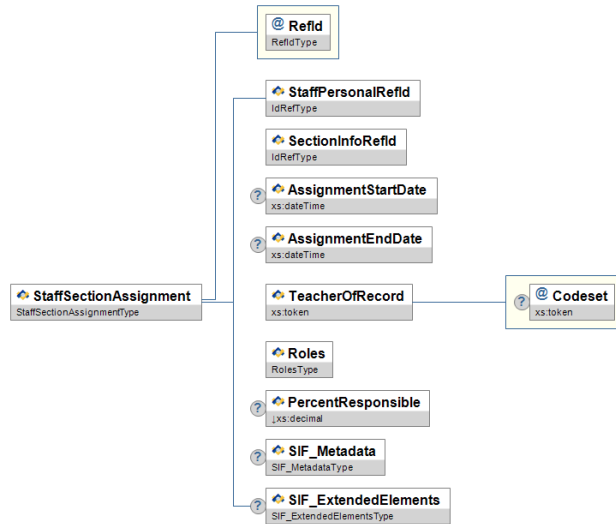


Figure 3.15.17-1: StaffSectionAssignment

Element@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type						
StaffSectionAssignment				This object contains information about a teacher's assignment in a section.							
@ RefId	M			The Id (GUID) that uniquely identifies this StaffSectionAssignment entity.	RefIdType						
StaffPersonalRefId	M			The Id (GUID) of the teacher or educational staff to whom the assignment information applies.	IdRefType						
SectionInfoRefId	M			The Id (GUID) of the section in which this staff (teacher) is assigned.	IdRefType						
AssignmentStartDate	O			Date from when this section assignment is effective and should be inclusive of the start and end date of the section coming from TermInfo.	xs:dateTime						
AssignmentEndDate	O			Date when this section assignment comes to an end and should be inclusive of the start and end date of the section coming from TermInfo.	xs:dateTime						
TeacherOfRecord	M			Indicates if the staff is the Teacher of Record during this assignment.	xs:token						
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token						
Roles	M			List of one or more Roles.	RolesType						
PercentResponsible	O			Percentage of Responsibility of the Teacher of Record.	xs:decimal <table border="1" style="font-size: small;"> <tr><td>xs:inclusive</td><td>0</td></tr> <tr><td>xs:exclusive</td><td>100</td></tr> <tr><td>xs:fractionDigits</td><td>2</td></tr> </table>	xs:inclusive	0	xs:exclusive	100	xs:fractionDigits	2
xs:inclusive	0										
xs:exclusive	100										
xs:fractionDigits	2										
SIF_Metadata	O				SIF_MetadataType						
SIF_ExtendedElements	O				SIF_ExtendedElementsType						

Table 3.15.17-1: StaffSectionAssignment

JSON XML

```
<StaffSectionAssignment RefId="E3D48359D75101ABC2D09AA001A1452">
  <StaffPersonalRefId>03E48359D75101ABC2D09AA001A1452</StaffPersonalRefId>
  <SectionInfoRefId>8359D3E34075101ABC2D09AA001A1452</SectionInfoRefId>
  <AssignmentStartDate>2012-06-30T05:30:00-04:00</AssignmentStartDate>
  <AssignmentEndDate>2012-06-30T15:30:10-04:00</AssignmentEndDate>
  <TeacherOfRecord>New/TeacherOfRecord</TeacherOfRecord>
</StaffSectionAssignment>
```

Example 3.15.17-1: StaffSectionAssignment

3.15.18 StudentActivityInfo

This object provides information on co-curricular or extra-curricular activities (e.g., student organizations, intramural and interscholastic athletes, publications, band, orchestra, and service activities) in which students may participate.

SIF_Events are reported for this object.

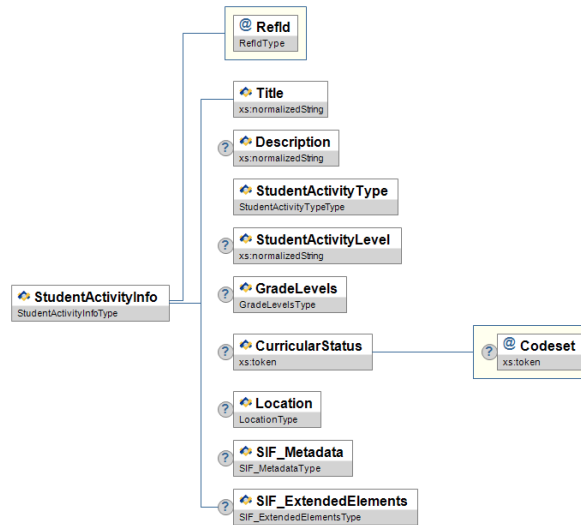


Figure 3.15.18-1: StudentActivityInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentActivityInfo				Co-curricular or extra-curricular activities (e.g., student organizations, intramural and interscholastic athletes, publications, band, orchestra, and service activities) in which students may participate.	
RefId	M			The Id (GUID) that uniquely identifies the instance of the object.	RefIdType
Title	M		000009 https://ced.s.ed.gov/element/000009	Name of the co-curricular or extra-curricular activity.	xs:normalizedString
Description	O			The description of the co-curricular or extra-curricular activity.	xs:normalizedString
StudentActivityType	M			Information regarding the co-curricular or extra-curricular activity.	StudentActivityTypeType
StudentActivityLevel	O			A description of the separation of level in the activity (e.g., Varsity, Junior Varsity, Honors).	xs:normalizedString
GradeLevels	O			Collection of grade levels applicable to this co-curricular or extra-curricular activity.	GradeLevelsType
CurricularStatus	O			An indication of the degree to which an activity is related to a student's curriculum.	xs:token
Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Location	O			Location where the activity takes place.	LocationType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.18-1: StudentActivityInfo

```

JSON XML
<StudentActivityInfo RefId="64728261094758344J08B3452918001">
  <Title>Junior Chess Club</Title>
  <Description>Competitive team of middle school chess players</Description>
  <StudentActivityType>
  <Code>0722</Code>
  <CodesetCodeset>
  </CodesetCodeset>
  </StudentActivityInfo>
    
```

Example 3.15.18-1: StudentActivityInfo..

3.15.19 StudentActivityParticipation

This object provides information on a co-curricular or extra-curricular activity in which a student participates during a given school year.

SIF_Events are reported for this object.

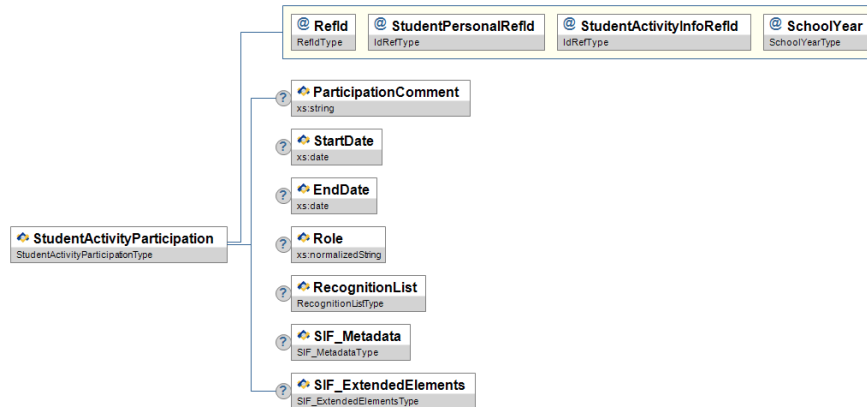


Figure 3.15.19-1: StudentActivityParticipation

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentActivityParticipation				The co-curricular or extra-curricular activity in which the student participates.	
@ RefId	M			GUID that uniquely identifies this instance of the object.	RefIdType
@ StudentPersonalRefId	M			GUID that identifies the student participating in the activity.	IdRefType
@ StudentActivityInfoRefId	M			GUID that identifies the activity in which the student participates.	IdRefType
@ SchoolYear	M			School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g. 2009 for the 2008-09 school year).	SchoolYearType
ParticipationComment	O			Comment related to the student's participation in the activity.	xs:string
StartDate	O		000007 https://ced.s.gov/element /000007	This is the date which the activity participation is valid (inclusive).	xs:date
EndDate	O		000008 https://ced.s.gov/element /000008	This is the date through which the activity participation is valid (inclusive). If element is supported by the publisher/responder, should contain a date if the student withdraws from the activity before the end of the school year.	xs:date
Role	O			Specific role the student plays in the activity (e.g., band leader, student body president).	xs:normalizedString
RecognitionList	O			List of awards and other types of recognition given to the student for this activity.	RecognitionListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.19-1: StudentActivityParticipation

```

JSON
XML
<StudentActivityParticipation RefId="982C96B3082406F926C1C4D3542D122" StudentPersonalRefId="646C5D4AC294886A02B971695C78C06" StudentActivityInfoRefId="6472B...
  <ParticipationComment>First year of participation</ParticipationComment>
  <StartDate>2008-09-01</StartDate>
  <Role>Team co-captain</Role>
  <RecognitionList>
    <Recognition Code="0745" />
  </RecognitionList>
  </StudentActivityParticipation>
    
```

Example 3.15.19-1: StudentActivityParticipation

3.15.20 StudentAttendanceSummary

This object provides a summary of a student's daily attendance and membership information for a given school during the time period between the StartDate and EndDate, inclusive. As such, there may be multiple instances of this object for a student in a school over the course of a school year or reporting period.

SIF_Events are not reported for this object.

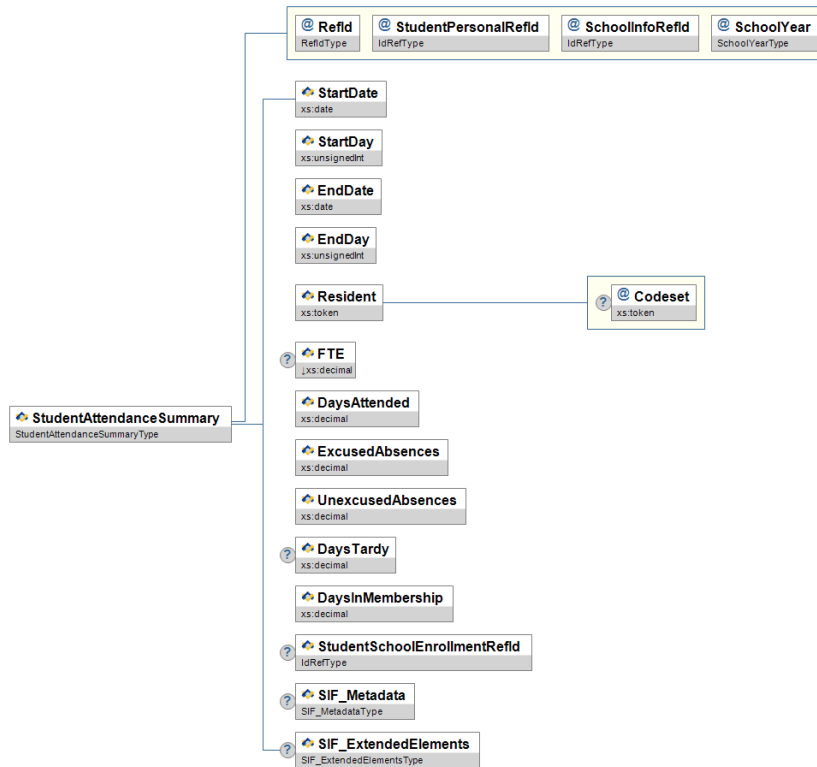


Figure 3.15.20-1: StudentAttendanceSummary

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentAttendanceSummary				This object provides a summary of a student's daily attendance and membership information for a given school during the time period between the StartDate and EndDate, inclusive. As such, there may be multiple instances of this object for a student in a school over the course of a school year or reporting period.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
StudentPersonalRefId	M			The Id (GUID) of the student for whom this attendance information is being reported.	IdRefType
@ SchoolInfoRefId	M			The Id (GUID) of the school for which this attendance information is being reported.	IdRefType
@ SchoolYear	M			School year for which the information is applicable.	SchoolYearType
StartDate	M			The starting date on which the information in this object instance is applicable.	xs:date
StartDay	M			Number of the first school day to which this object instance applies.	xs:unsignedInt
EndDate	M			The ending date on which the information in this object instance is applicable.	xs:date
EndDay	M			Number of the last school day to which this object instance applies.	xs:unsignedInt
Resident	M			An indication as to whether or not the student's legal residence was within the boundaries of the school during the time between the StartDate and EndDate, inclusive. Note: No SIF_Query SIF_Condition support is required for this element.	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:string
FTE	O			Full time equivalent numeric value of the student's course load during the time between the StartDate and EndDate, inclusive. Expressed in decimal form, where 1.00 represents a full time enrollment. Deprecated in favor of using the StudentSchoolEnrollmentRefId element below.	xs:decimal
DaysAttended	M		000271 https://ceds.ed.gov/element/000271	The number of days the student attended school when school was in session between the StartDate and EndDate, inclusive. Note: No SIF_Query SIF_Condition support is required for this element.	xs:decimal
ExcusedAbsences	M			The number of days the student was absent from school with a valid excuse when school was in session between the StartDate and EndDate, inclusive. Note: No SIF_Query SIF_Condition support is required for this element.	xs:decimal
UnexcusedAbsences	M		000569 https://ceds.ed.gov/element/000569	The number of days the student was absent from school without a valid excuse when school was in session between the StartDate and EndDate, inclusive. Note: No SIF_Query SIF_Condition support is required for this element.	xs:decimal
DaysTardy	O			The number of days the student was tardy when school was in session between the StartDate and EndDate, inclusive.	xs:decimal
DaysInMembership	M			The number of days the student was present plus the number of days the student was absent when school was in session during the period between the StartDate and EndDate, inclusive. Note: No SIF_Query SIF_Condition support is required for this element.	xs:decimal
StudentSchoolEnrollmentRefId	O			RefId (GUID) of the StudentSchoolEnrollment object instance that corresponds to this object instance.	IdRefType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementTypes

Table 3.15.20-1: StudentAttendanceSummary

```

JSON XML
<StudentAttendanceSummary RefId="359075101AD0A907ABC3D0DA85103A2" StudentPersonalRefId="D3476FAB864738480A2431E0A3583211" SchoolInfoRefId="CA285746359075101A"
  <StartDate>2004-08-30</StartDate>
  <StartDay>1</StartDay>
  <EndDate>2005-06-10</EndDate>
  <EndDay>180</EndDay>
  <Resident>Yes</Resident>
  
```

Example 3.15.20-1: StudentAttendanceSummary - Example 1

```

JSON XML
<StudentAttendanceSummary RefId="359075101AD0A907ABC3D0DA85103A2" StudentPersonalRefId="D3476FAB864738480A2431E0A3583211" SchoolInfoRefId="CA285746359075101A"
  <StartDate>2009-08-31</StartDate>
  <StartDay>1</StartDay>
  <EndDate>2010-06-10</EndDate>
  <EndDay>180</EndDay>
  <Resident>Yes</Resident>
  
```

Example 3.15.20-2: StudentAttendanceSummary - Example 2

3.15.21 StudentContact

This object contains information regarding a contact person for a student.

Note: As of version 2.5 this object is deprecated. It will be removed from the Specification in the next major release. Use the StudentContactPersonal and StudentContactRelationship objects instead.

Note: At least one of the child elements of ContactFlags must have a yes value. Do not publish the StudentContact instance if one of the child elements does not have a yes value.

SIF_Events are reported for this object.

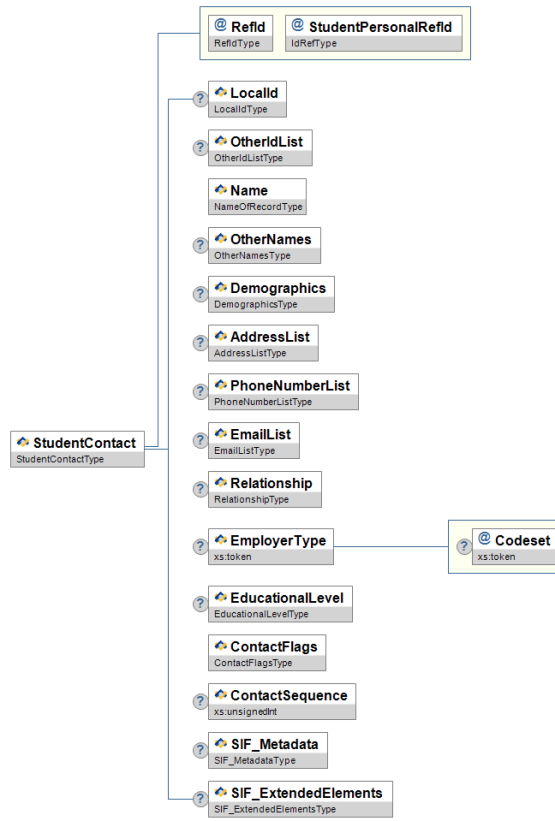


Figure 3.15.21-1: StudentContact

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentContact				This object contains information regarding a contact person for a student. Note: <i>As of version 2.5 this object is deprecated.</i> It will be removed from the Specification in the next major release. Use the StudentContactPersonal and StudentContactRelationship objects instead. Note: At least one of the child elements of ContactFlags must have a Yes value. Do not publish the StudentContact instance if one of the child elements does not have a Yes value.	
@ RefId	M			The GUID of this contact.	RefIdType
@ StudentPersonalRefId	M			The GUID of the student whose contact this is.	IdRefType
LocalId	O			The locally-assigned identifier for this contact. Note: LocalId may be used as a unique person identifier rather than a unique contact identifier. In this case there may be more than one StudentContact instance with the same LocalId.	LocalIdType
OtherIdList	O			Lists all "other" identifiers associated with the contact.	OtherIdListType
Name	M			The name of the contact. Note: Type attribute value of 04 must be used here.	NameOfRecordType
OtherNames	O			Previous, alternate or other names or aliases associated with the contact.	OtherNamesType
Demographics	O			Demographic information about the contact.	DemographicType
AddressList	O			The contact's address(es).	AddressListType
PhoneNumberList	O			The contact's phone number(s).	PhoneNumberListType
EmailList	O			The contact's e-mail address(es).	EmailListType
Relationship	O			Defines the relationship of the contact to the student.	RelationshipType
EmployerType	O			Code that defines the employer type.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
EducationalLevel	O			The highest level of education completed by the contact person.	EducationalLevelType
ContactFlags	M			Contains Yes/No characteristics of the contact person's role. Provide a Yes value for all that apply. At least one of the child elements of ContactFlags must have a Yes value. Do not publish the StudentContact instance if one of the child elements does not have a Yes value.	ContactFlagsType
ContactSequence	O			Number indicating the order in which the person should be contacted.	xs:unsignedInt
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.21-1: StudentContact

```

JSON XML
<StudentContact RefId="03E34B359D75101ABC300AA091A1652" StudentPersonalRefId="DDE34B359D75101ABC300AA091A1652">
  <Name Type="04">
    <Last Name>Johnson</Last Name>
    <First Name>Alicia</First Name>
  </Name>
  <Demographics>

```

Example 3.15.21-1: StudentContact

3.15.22 StudentContactPersonal

This object contains information about the people who are referenced as student contacts.

SIF_Events are reported for this object.

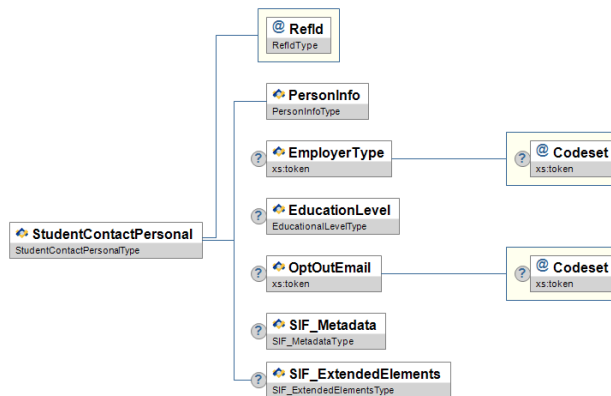


Figure 3.15.22-1: StudentContactPersonal

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentContactPersonal				Demographic and other information for each person who might be referenced as a student contact.	
@ RefId	M			The Id (GUID) that uniquely identifies the instance of the object.	RefIdType
PersonInfo	M			Common element containing person demographic information.	PersonInfoType
EmployerType	O			Code that defines the employer type.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
EducationLevel	O			The highest level of education completed by the contact person.	EducationalLevelType
OptOutEmail	O			A "yes" value indicates person may only be contacted as authorized via email. This usually indicates they have requested contact be limited to essential purposes and use/release of their contact information (e.g. to Parent Teacher organizations) may be limited.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.22-1: StudentContactPersonal

```

JSON XML
<StudentContactPersonal RefId="647282610947583A463DB8345291B001">
  <PersonInfo>
    <Name Type="04">
      <LastName>Johnson</LastName>
      <FirstName>Alice</FirstName>
    </Name>
  </PersonInfo>
</StudentContactPersonal>
    
```

Example 3.15.22-1: StudentContactPersonal - Example 1

3.15.23 StudentContactRelationship

This object defines a relationship between a contact person and a student.

SIF_Events are reported for this object.

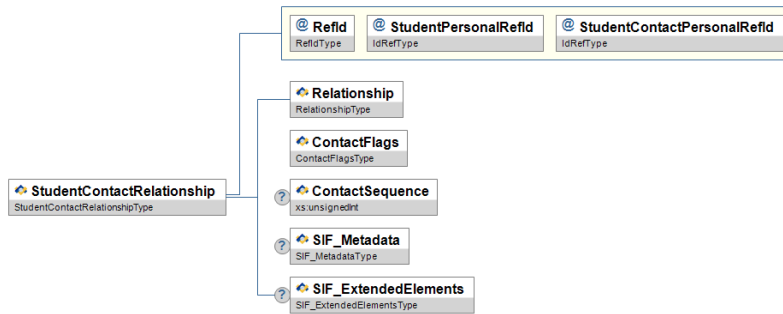


Figure 3.15.23-1: StudentContactRelationship

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentContactRelationship				The relationship between a student and a contact person.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
@ StudentPersonalRefId	M			GUID that identifies the student for the relationship.	IdRefType
@ StudentContactPersonalRefId	M			GUID that identifies the contact person for the relationship.	IdRefType
Relationship	M			The relationship of the contact person to the student	RelationshipType
ContactFlags	M			Contains Yes/No characteristics of the contact person's role. Provide a Yes value for all that apply. At least one of the child elements of ContactFlags must have a Yes value.	ContactFlagsType
ContactSequence	O			Number indicating the order in which the person should be contacted.	xs:unsignedInt
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.23-1: StudentContactRelationship

```

JSON XML
<StudentContactRelationship RefId="359075101A00A9D7ABC3DAD0A85103A2" StudentPersonalRefId="0E834B359075101ABC3D00A091A1652" StudentContactPersonalRefId="647282610947583A463DB8345291B001">
  <Relationship>
    <Code>1733</Code>
  </Relationship>
  <ContactFlags>
    <ContactFlagsYes</ContactFlagsYes>
  </ContactFlags>
</StudentContactRelationship>
    
```

Example 3.15.23-1: StudentContactRelationship - Example 1

3.15.24 StudentDailyAttendance

This object provides daily attendance information for a particular student in a particular school on a particular date.

SIF_Events are reported for this object.

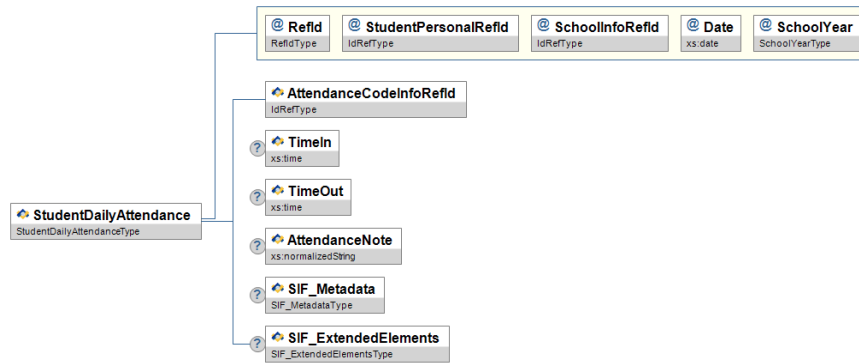


Figure 3.15.24-1: StudentDailyAttendance

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentDailyAttendance				This object provides daily attendance information for a particular student in a particular school on a particular date.	
RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
StudentPersonalRefId	M			The Id (GUID) of the student for whom this attendance information is being reported.	IdRefType
SchoolInfoRefId	M			The Id (GUID) of the school for which this attendance information is being reported.	IdRefType
Date	M			The calendar date to which this attendance information relates.	xs:date
SchoolYear	M			School year for which this enrollment is applicable, expressed as the four-digit year in which the school year ends (e.g. 2007 for the 2006-07 school year).	SchoolYearType
AttendanceCodeInfoRefId	M			The Id (GUID) of the locally-defined daily attendance code information.	IdRefType
TimeIn	O			The time the student entered or returned to school.	xs:time
TimeOut	O			The time the student left school.	xs:time
AttendanceNote	O			Note related to this particular attendance.	xs:normalizedString
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.24-1: StudentDailyAttendance

```

JSON
XML

<StudentDailyAttendance RefId="359075101AD0A907ABC3DAD0A85103A2" StudentPersonalRefId="03E34B359075101ABC3D00A8001A1652" SchoolInfoRefId="CA285746359075101ABC3D00A8001A1652" AttendanceCodeInfoRefId="84726485960937465A53B2781BB260AA" />
<TimeIn>12:30:00</TimeIn>
<TimeOut>12:05:00</TimeOut>
<AttendanceNote>Sick for Orthodontist appt. and returned to school afterward.</AttendanceNote>
</StudentDailyAttendance>
    
```

Example 3.15.24-1: StudentDailyAttendance

3.15.25 StudentPersonal

This object contains all the personal information related to the student.

SIF_Events are reported for this object.

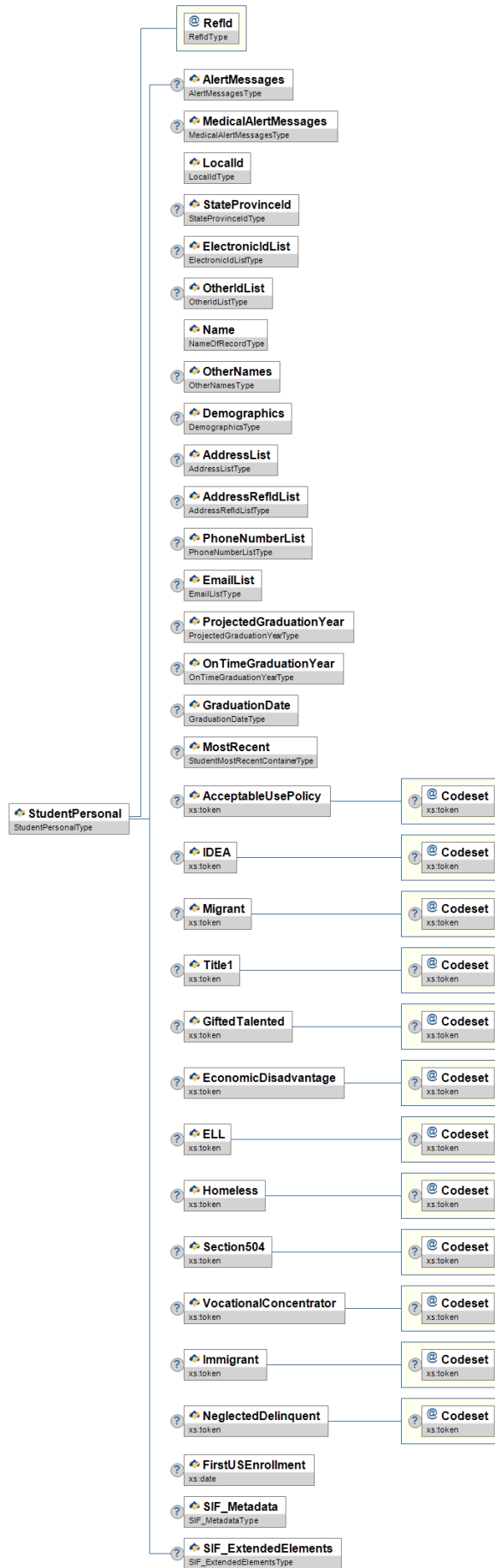


Figure 3.15.25-1: StudentPersonal

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentPersonal				This object contains all the personal information related to the student.	
@ RefId	M			The GUID of the student.	RefIdType
AlertMessages	O				AlertMessagesType
MedicalAlertMessages	O				MedicalAlertMessagesType
LocalId	M			The locally-assigned identifier for this student.	LocalIdType
StateProvinceId	O			The state-assigned identifier for this student.	StateProvinceIdType
ElectronicIdList	O			Electronic identifier(s) associated with this entity.	ElectronicIdListType
OtherIdList	O			Lists all "other" identifiers associated with the student.	OtherIdListType
Name	M			Name of the student. Note: Type value of 04 must be used here.	NameOfRecordType
OtherNames	O			Previous, alternate or other names or aliases associated with the student.	OtherNamesType
Demographics	O			This element contains information related to student demographics.	DemographicType
AddressList	O			The student's address(es)	AddressListType
AddressRefIdList	O			References to separate potentially reusable, shared, or pre-verified addresses.	AddressRefIdListType
PhoneNumberList	O			The student's phone number(s).	PhoneNumberListType
EmailList	O			The student's e-mail address(es).	EmailListType
ProjectedGraduationYear	O			Currently projected graduation year.	ProjectedGraduationYearType
OnTimeGraduationYear	O			First projected graduation year, usually determined when student is accepted into 9th grade.	OnTimeGraduationYearType
GraduationDate	O			Date student officially graduated from secondary education.	GraduationDateType
MostRecent	O			Container for elements reflecting the most recent enrollment of a student. If the student is currently enrolled in the district, the elements contain current information.	StudentMostRecentContainerType
AcceptableUsePolicy	O			Does the student have a current signed Acceptable Use Policy document for system access?	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
IDEA	O		000577 https://ceds.ed.gov/element/000577		xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Migrant	O		000189 https://ceds.ed.gov/element/000189		xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
TitleI	O		000281 https://ceds.ed.gov/element/000281		xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
GiftedTalented	O		000122 https://ceds.ed.gov/element/000122		xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
EconomicDisadvantage	O		000092 https://ceds.ed.gov/element/000092		xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
ELL	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Homeless	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Section504	O		000249 https://ceds.ed.gov/element/000249		xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
VocationalConcentrator	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Immigrant	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
NeglectedDelinquent	O		000193 https://ceds.ed.gov/element/000193		xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
FirstUSEnrollment	O			The date on which the student was first enrolled in the US school system.	xs:date
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElement#Type

Table 3.15.25-1: StudentPersonal

```

JSON XML
<StudentPersonal RefId="D3E34B359075101ABC3000AA001A1652">
  <AlertMessage>
    <AlertMessage Type="Legal">This is the Legal Alert for Joe Student</AlertMessage>
  </AlertMessage>
  <LocalId>990801</LocalId>
  <StateProvLocid>080236</StateProvLocid>
</StudentPersonal>
    
```

Example 3.15.25-1: StudentPersonal

3.15.26 StudentPicture

This object contains information about the student's picture.

SIF_Events are reported for this object.

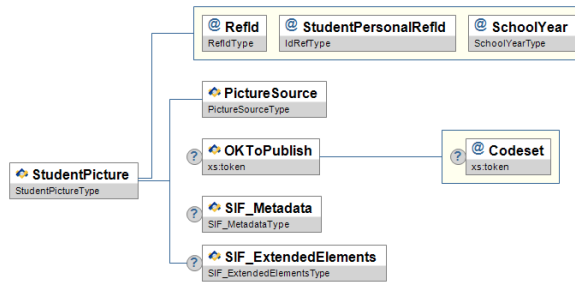


Figure 3.15.26-1: StudentPicture

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentPicture				This object contains information about the student's picture.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is new for 2.7M and MUST be supported like other objects that have a RefId (i.e. it is the key for the object). The alternate keys MUST continue to be supported.	RefIdType
@ StudentPersonalRefId	M			This is the GUID of the student whose picture this is.	IdRefType
@ SchoolYear	M			School year for which this enrollment is applicable, expressed as the four-digit year in which the school year ends (e.g. 2007 for the 2006-07 school year).	SchoolYearType
PictureSource	M			This element defines the picture. If the Type attribute is URL, this is the location of the picture in [JPEG] format; if Type is JPEG, this is the [JPEG] image data encoded using the Base64 Content-Transfer-Encoding defined in Section 6.8 of [RFC 2045].	PictureSourceType
OKToPublish	O			Can the picture be published?	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElement#Type

Table 3.15.26-1: StudentPicture

```

JSON XML
<StudentPicture RefId="559075101A00A907ABC3000AA001A1652" StudentPersonalRefId="D3E34B359075101ABC3000AA001A1652" SchoolYear="1999">
  <PictureSource Type="URL">https://www.schoolsite.com/picturew/1999/1234.jpg</PictureSource>
</StudentPicture>
    
```

Example 3.15.26-1: StudentPicture

3.15.27 StudentProgramAssociation

Links a student to participation in a program.

SIF_Events are reported for this object.

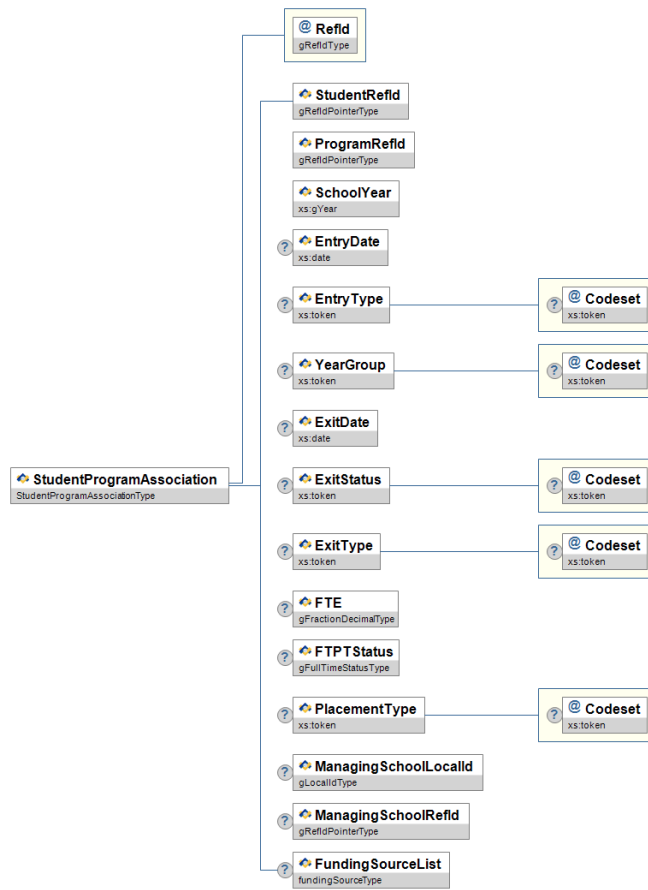


Figure 3.15.27-1: StudentProgramAssociation

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentProgramAssociation				Links a student to participation in a program.	
@ RefId	M				gRefIdType
StudentRefId	M			The Id (UUID) of the student to whom this information is linked.	gRefIdPointerType
ProgramRefId	M			The Id (GUID) of the program to which this enrollment applies.	gRefIdPointerType
SchoolYear	M			School year for which this enrollment is applicable, expressed as the four-digit year in which the school year ends (e.g. 2007 for the 2006-07 school year). StudentSchoolEnrollment instances must not span multiple school years.	xs:year
EntryDate	O			The date from when this enrollment is valid.	xs:date
EntryType	O			Code indicating the type of entry for this enrollment.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
YearGroup	O			Grade or academic level of student for this enrollment.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ExitDate	O			The last school calendar day of this enrollment. If the student has exited the school or the enrollment has a RecordClosureReason, ExitDate must have a value.	xs:date
ExitStatus	O			Code indicating the closure status for this enrollment.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ExitType	O			Code indicating the type of exit for this enrollment.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
FTE	O			Full-time equivalent numeric value of the student's program load during this enrollment, expressed in decimal form, where 1.00 represents a full-time enrollment.	gFractionDecimal
FTEStatus	O			An indication of whether the student is enrolled full time or part time.	gFullTimeStatusType
PlacementType	O			Provides additional detail concerning enrollment in the program, e.g., Resident, State Placed.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ManagingSchoolLocalId	O			Managing school for this student in the program. Overrides the value in program object.	gLocalIdType
ManagingSchoolRefId	O			SIF RefId for the managing school. Overrides the value in the program object.	gRefIdPointerType
FundingSourceList	O			Student-specific funding sources for the student in the program.	FundingSourceType

Table 3.15.27-1: StudentProgramAssociation

```

JSON XML
<StudentProgramAssociation RefId="C09A9FD-1179-4fab-8205-d87e03b93084">
  <StudentRefId>Bacc68eb8-d0fa-43b0-d04b-781c85c15ba6</StudentRefId>
  <ProgramRefId>849453a0f-af0c-424b-2f5d-34721aa47066</ProgramRefId>
  <SchoolYear>2014</SchoolYear>
  <EntryDate>2014-05-03</EntryDate>
  <EntryType Codeset="112">ENR</EntryType>
  
```

Example 3.15.27-1: StudentProgramAssociation

3.15.28 StudentSchoolEnrollment

This object defines information related to a student's enrollment. StudentSchoolEnrollment instances must not span multiple school years.

Note there is only one current home enrollment at a time for a student. One and only one instance of the StudentSchoolEnrollment object must exist for a given student with membershipType=Home for the time interval between EntryDate and ExitDate, inclusive.

Effective in version 2.0, agents are required to re-publish a StudentSchoolEnrollment object change event when the TimeFrame attribute changes, regardless of when the data entry is done. This is in addition to the pre-2.0 practice of publishing the object change event at the time the data changes in the corresponding application.

When the object is re-published, it must contain all the data in the object that is supported by the publisher. For more information, please refer to the supporting documentation.

SIF_Events are reported for this object.

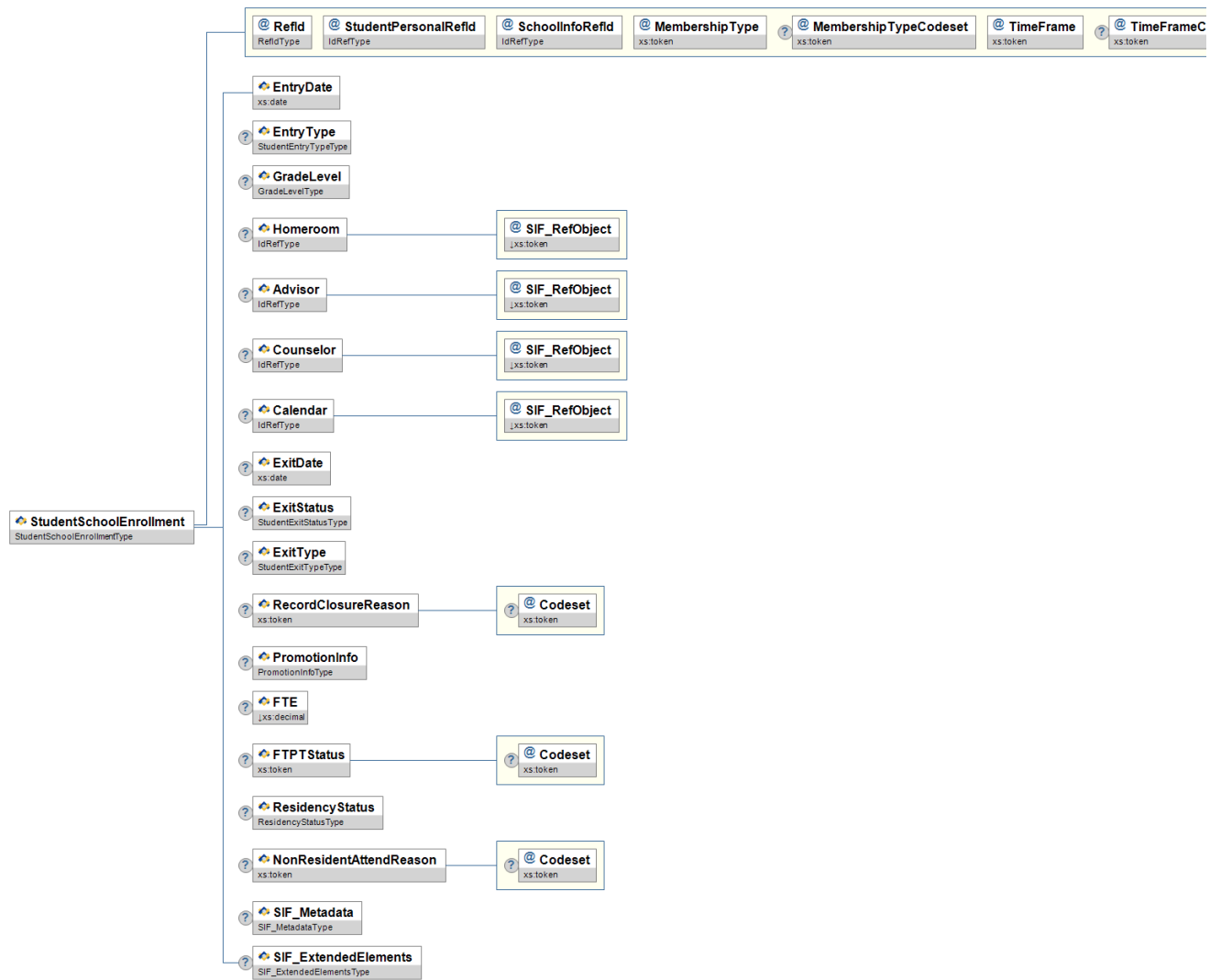


Figure 3.15.28-1: StudentSchoolEnrollment

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type						
StudentSchoolEnrollment			000094 https://ceds.ed.gov/element/000094	This object defines information related to a student's enrollment. StudentSchoolEnrollment instances must not span multiple school years. Note there is only one current home enrollment at a time for a student. One and only one instance of the StudentSchoolEnrollment object must exist for a given student with MembershipType=Home for the time interval between EntryDate and ExitDate, inclusive. Effective in version 2.0, agents are required to re-publish a StudentSchoolEnrollment object change event when the TimeFrame attribute changes, regardless of when the data entry is done. This is in addition to the pre-2.0 practice of publishing the object change event at the time the data changes in the corresponding application. When the object is re-published, it must contain all the data in the object that is supported by the publisher. For more information, please refer to the supporting documentation.							
@ RefId	M			The Id (GUID) that uniquely identifies a particular enrollment.	xs:string						
@ StudentPersonalRefId	M			The Id (GUID) of the student to whom this information is linked.	IdRefType						
@ SchoolInfoRefId	M		000364 https://ceds.ed.gov/element/000364	The Id (GUID) of the school to which this enrollment applies.	IdRefType						
@ MembershipType	M			The type of this enrollment as it relates to the school identified in SchoolInfoRefId.	xs:string						
@ MembershipTypeCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:string						
@ TimeFrame	M			The timeframe of the enrollment based on the SIF_Date in the SIF_Header of the message. For events, it is determined as of the date the event is generated. For requests and responses, it is calculated based on the date of the request.	xs:string						
@ TimeFrameCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:string						
@ SchoolYear	M			School year for which this enrollment is applicable, expressed as the four-digit year in which the school year ends (e.g. 2007 for the 2006-07 school year). StudentSchoolEnrollment instances must not span multiple school years.	SchoolYearType						
EntryDate	M		002097 https://ceds.ed.gov/element/002097	The date from when this enrollment is valid.	xs:date						
EntryType	O				StudentEntryTypeType						
GradeLevel	O			Grade or academic level of student for this enrollment.	GradeLevelType						
Homeroom	O			Homeroom for this enrollment.	IdRefType						
@ SIF_RefObject	M			The name of the object referenced.	values: RoomInfo						
Advisor	O			Staff member assigned as an advisor for this enrollment.	IdRefType						
@ SIF_RefObject	M			The name of the object referenced.	values: StaffPersonal						
Counselor	O			Staff member assigned as a counselor for this enrollment.	IdRefType						
@ SIF_RefObject	M			The name of the object referenced.	values: StaffPersonal						
Calendar	O			The calendar assigned to this enrollment.	IdRefType						
@ SIF_RefObject	M			The name of the object referenced.	values: CalendarSummary						
ExitDate	C		000107 https://ceds.ed.gov/element/000107	The last school calendar day of this enrollment. If the student has exited the school or the enrollment has a RecordClosureReason, ExitDate must have a value.	xs:date						
ExitStatus	O				StudentExitStatusType						
ExitType	O				StudentExitTypeType						
RecordClosureReason	O			The reason why this enrollment was closed.	xs:string						
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:string						
PromotionInfo	O			Information on a student's promotion, retention, or demotion related to this enrollment instance.	PromotionInfoType						
FTE	O			Full-time equivalent numeric value of the student's course load during this enrollment, expressed in decimal form, where 1.00 represents a full-time enrollment.	xs:decimal <table border="1" style="font-size: small;"> <tr><td>xs:minInclusive</td><td>0</td></tr> <tr><td>xs:maxInclusive</td><td>1</td></tr> <tr><td>xs:fractionDigits</td><td>2</td></tr> </table>	xs:minInclusive	0	xs:maxInclusive	1	xs:fractionDigits	2
xs:minInclusive	0										
xs:maxInclusive	1										
xs:fractionDigits	2										
FPTStatus	O			An indication of whether the student is enrolled full time or part time.	xs:string						
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:string						
ResidencyStatus	O			Location of an individual's legal residence relative to (within or outside) the boundaries of the school for this enrollment.	ResidencyStatusType						
NonResidentAttendReason	C			If the school represented by this enrollment is outside of the student's usual attendance area (as indicated in the ResidencyStatus element), this element indicates the reason that the student attends this school.	xs:string						
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:string						
SIF_Metadata	O				SIF_MetadataType						
SIF_ExtendedElements	O				SIF_ExtendedElementsType						

Table 3.15.28-1: StudentSchoolEnrollment


```

JSON XML
<StudentSchoolEnrollment RefId="ABC3D3E4B359D75101D00AA001A1E52" StudentPersonalRefId="D3E4B359D75101A3C3D00AA001A1E52" SectionInfoRefId="D3E4B359D75101A3C3D00AA001A1E52" >
  <EntryDate>2004-01-29</EntryDate>
  <EntryType>
    <Code>1838</Code>
  </EntryType>
  <GradeLevel>
  </GradeLevel>
  </StudentSchoolEnrollment>
    
```

Example 3.15.28.1: StudentSchoolEnrollment - Example 1

```

JSON XML
<StudentSchoolEnrollment RefId="ABC3D3E4B359D75101D00AA001A1E52" StudentPersonalRefId="D3E4B359D75101A3C3D00AA001A1E52" SectionInfoRefId="D3E4B359D75101A3C3D00AA001A1E52" >
  <ExitDate>2008-01-29</ExitDate>
  <RecordClosureReason>FinalDependentDataChange</RecordClosureReason>
  <PromotionInfo>
    <PromotionStatus>Promoted</PromotionStatus>
  </PromotionInfo>
  </StudentSchoolEnrollment>
    
```

Example 3.15.28.2: StudentSchoolEnrollment - Example 2

3.15.29 StudentSectionEnrollment

This object contains information about a student's enrollment in a section of a course.

SIF_Events are reported for this object.

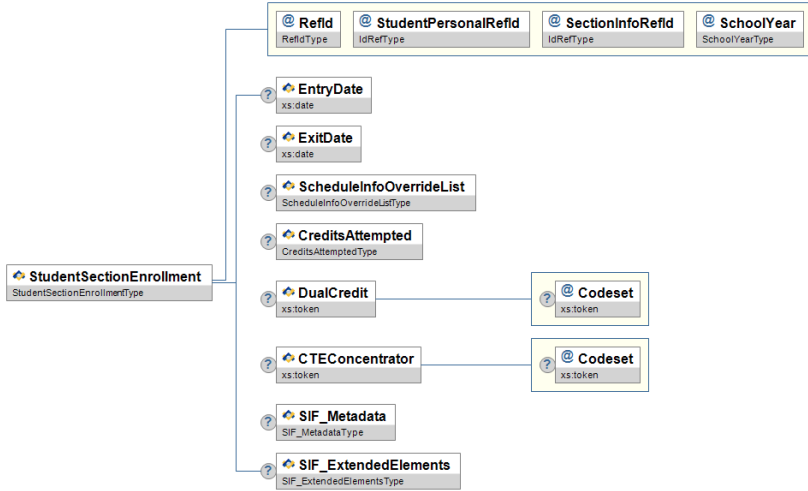


Figure 3.15.29.1: StudentSectionEnrollment

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentSectionEnrollment				This object contains information about a student's enrollment in a section of a course.	
@ RefId	M			The Id (GUID) that uniquely identifies this StudentSectionEnrollment entity.	RefIdType
@ StudentPersonalRefId	M			The Id (GUID) of the student to whom the enrollment information applies.	IdRefType
@ SectionInfoRefId	M			The Id (GUID) of the section in which this student is enrolled.	IdRefType
@ SchoolYear	M			School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g. 2007 for the 2006-07 school year).	SchoolYearType
EntryDate	O		000097 https://ceds.ed.gov/element/000097	Date from when this course section enrollment is valid.	xs:date
ExitDate	O		000651 https://ceds.ed.gov/element/000651	The last school calendar day (membership day) the student was enrolled in the course section (inclusive).	xs:date
ScheduleInfoOverrideList	O			A complete replacement of the standard SectionInfo/ScheduleInfoList for this student's course enrollment.	ScheduleInfoOverrideListType
CreditsAttempted	O			Number of credits the student is attempting to earn. If present, this element's value overrides the credits in SchoolCourseInfo and SectionInfo.	CreditsAttemptedType
DualCredit	O			Indicates whether this course is applicable in having dual credits. This value overrides the SchoolCourseInfo DualCredit value at the student section level.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
CTEConcentrator	O			Indicates whether this is a CTE concentrator for this course. This value overrides the SchoolCourseInfo CTEConcentrator value at the student section level.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.29.1: StudentSectionEnrollment

```

JSON XML
<StudentSectionEnrollment RefId="983AC16598793002C3D00AA00454789D" StudentPersonalRefId="CAE29165987101A3C3D00AA00454789D" SectionInfoRefId="9076A823E38611287" >
  <EntryDate>2001-09-05</EntryDate>
  <ExitDate>2002-03-01</ExitDate>
  <ScheduleInfoOverrideList>
    <ScheduleInfoOverride Override="Yes" TermInfoRefId="0998BC3227490063E97403434C5C2207">
      <ScheduleInfoList>
    </ScheduleInfoList>
  </ScheduleInfoOverride>
  </ScheduleInfoOverrideList>
  </StudentSectionEnrollment>
    
```

Example 3.15.29.1: StudentSectionEnrollment

3.15.30 StudentSnapshot

This object provides a snapshot of a student's record on a given day. All information reported in the object is reported as it appeared in the responding system on the date specified in SnapDate. It can be used for synching data across applications, for periodically loading a data warehouse, or for vertical reporting of data to a requesting authority, such as a state department of education.

SIF_Events are not reported for this object.

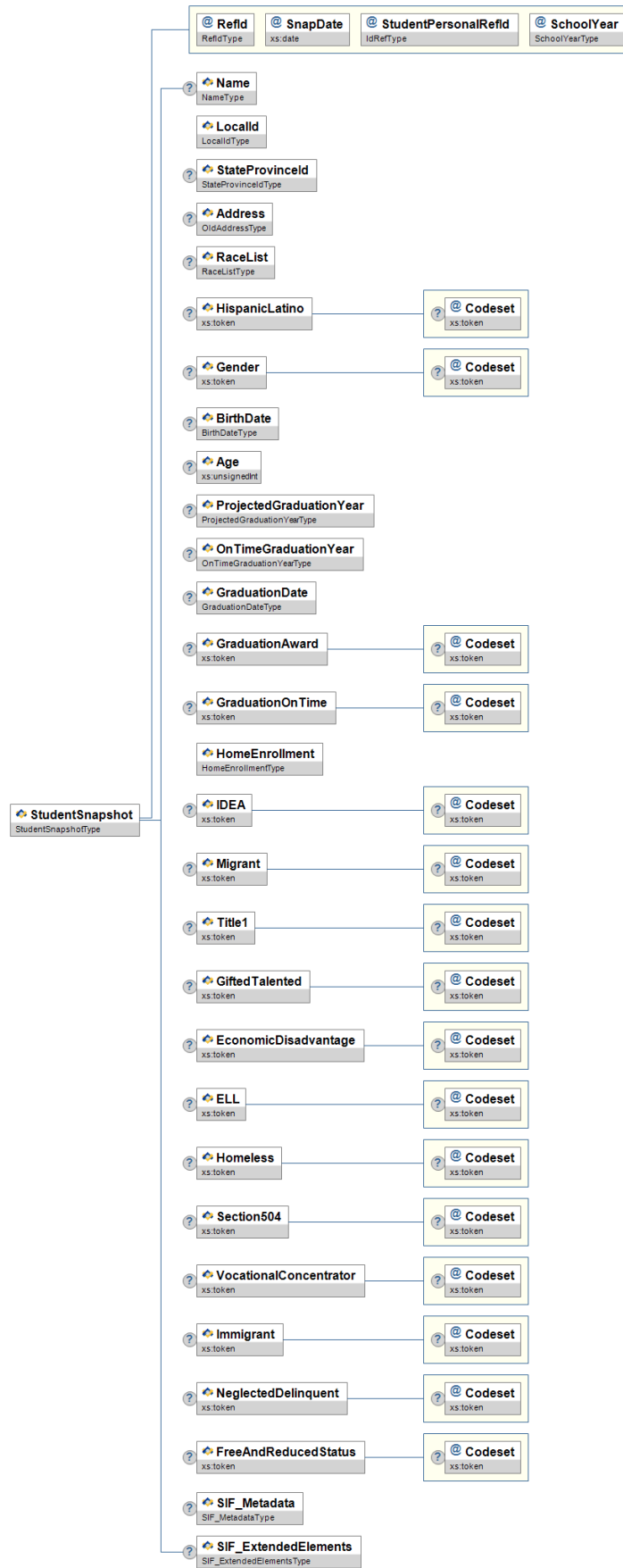


Figure 3.15.30-1: StudentSnapshot

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentSnapshot				This object provides a snapshot of a student's record on a given day. All information reported in the object is reported as it appeared in the responding system on the date specified in SnapDate. It can be used for synchronizing data across applications, for periodically loading a data warehouse, or for vertical reporting of data to a requesting authority, such as a state department of education.	
@ RefId	M			A GUID that identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
@ SnapDate	M			The date the data snapshot was taken. Some elements are provided/calculated as of the SnapDate, and some are provided as of the date the object is requested (i.e., some can be historical and some will represent the last information available/last known value). In a SIS the following elements are provided/calculated as of the SnapDate: Age, HomeEnrollment and all its child elements. Other applications (e.g., data warehouses) may be able to provide values for other elements on various snap dates.	xs:date
@ StudentPersonalRefId	M			The Id (GUID) of the student to whom this information relates.	idRefType
@ SchoolYear	M			School year in which the SnapDate falls, and for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g. 2007 for the 2006-07 school year).	SchoolYearType
Name	O			The name of the student.	NameType
LocalId	M			The locally-defined identifier for this student.	LocalIdType
StateProvinceId	O			The state-assigned identifier for this student.	StateProvinceIdType
Address	O			The address of the student.	OldAddressType
RaceList	O			Person's race	RaceListType
HispanicLatino	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Gender	O			Person's gender.	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
BirthDate	O			The person's date of birth.	BirthDateType
Age	O			The age (in years) of the student on the date in SnapDate.	xs:unsignedInt
ProjectedGraduationYear	O			Currently projected graduation year.	ProjectedGraduationYearType
OnTimeGraduationYear	O			First projected graduation year, usually determined when student is accepted into ninth grade.	OnTimeGraduationYearType
GraduationDate	O			Date student officially graduated from secondary education.	GraduationDateType
GraduationAward	O			The award received upon graduation.	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
GraduationOnTime	O			Did the student graduate in the expected number of years?	xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
HomeEnrollment	M			Enrollment-related information for the school that is responsible for reporting the student's membership/child accounting information. This is most likely the primary enrollment site for the student.	HomeEnrollmentType
IDEA	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Migrant	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
TitleI	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
GiftedTalented	O				xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
EconomicDisadvantage	O		000086 https://ceds.ed.gov/element/000086		xs:boolean
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
ELL	O		000365 https://ceds.ed.gov/element/000365		xs:boolean

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Homeless	O		000149 https://ceds.ed.gov/element/000149		xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Section504	O				xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
VocationalConcentrator	O				xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
Immigrant	O				xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
NeglectedDelinquent	O				xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
FreeAndReducedStatus	O			Student's eligibility for free and reduced meals.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.15.30-1: StudentSnapshot

```

JSON XML
<?xml version="1.0" encoding="UTF-8" ?>
<StudentSnapshot RefId="359075101AD0A9D7ABC3DAD0A85103A2" Snapshot="2003-10-01" StudentPersonalRefId="A15484ED564995254A4568E9FC5100B0" SchoolYear="2004" >
  <Name Type="ID" >
    <LastName>Johnson</LastName>
    <FirstName>Alison</FirstName>
  </Name>
  <LocalId>1089543</LocalId>
</StudentSnapshot>
    
```

Example 3.15.30-1: StudentSnapshot

3.15.31 TermInfo

This object provides information about a term; i.e., a reportable period of time.

SIF_Events are reported for this object.

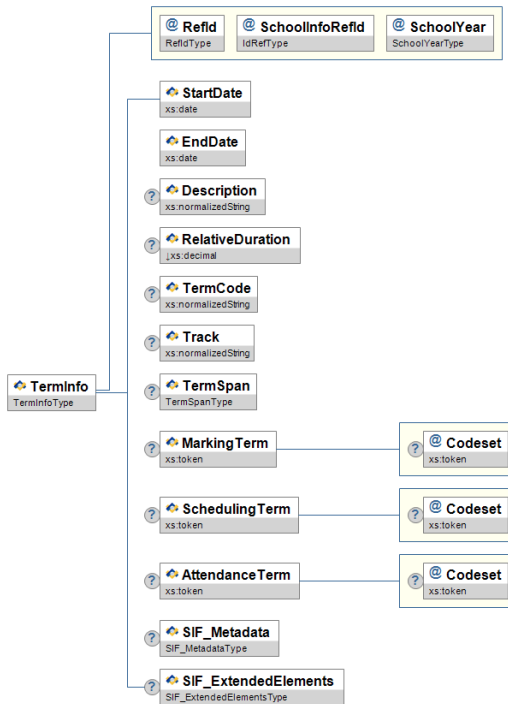


Figure 3.15.31-1: TermInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type						
TermInfo				This object provides information about a term; i.e., a reportable period of time.							
@ RefId	M			The Id (GUID) that uniquely identifies this TermInfo entity.	RefIdType						
@ SchoolInfoRefId	M			The Id (GUID) that identifies the school where the term is used.	IdRefType						
@ SchoolYear	M			School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., 2007 for the 2006-07 school year).	SchoolYearType						
StartDate	M			Starting date of the term.	xs:date						
EndDate	M			Ending date of the term (CCYYMMDD).	xs:date						
Description	O			Text-based description of the term.	xs:normalizedString						
RelativeDuration	O			Portion of the school year represented by this term, expressed in decimal form precise to 4 decimal places (e.g., 0.1333).	xs:decimal <table border="1"> <tr><td>xs:minInclusive</td><td>0</td></tr> <tr><td>xs:maxInclusive</td><td>1</td></tr> <tr><td>xs:fractionDigits</td><td>4</td></tr> </table>	xs:minInclusive	0	xs:maxInclusive	1	xs:fractionDigits	4
xs:minInclusive	0										
xs:maxInclusive	1										
xs:fractionDigits	4										
TermCode	O			Locally-defined code.	xs:normalizedString						
Track	O			The name, description, or code of the track that contains this term. This is used when there are multiple tracks within a school. For instance, kindergarten commonly has a different set of terms than other grades within the school.	xs:normalizedString						
TermSpan	O				TermSpanType						
MarkingTerm	O			Does this TermInfo represent a marking period?	xs:boolean						
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean						
SchedulingTerm	O			Does this TermInfo represent a scheduling term?	xs:boolean						
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean						
AttendanceTerm	O			Does this TermInfo represent an attendance term?	xs:boolean						
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:boolean						
SIF_Metadata	O				SIF_MetadataType						
SIF_ExtendedElements	O				SIF_ExtendedElementsType						

Table 3.15.31-1: TermInfo

```

JSON XML
<TermInfo RefId="7259075101A80A7001437508097A0726" SchoolInfoRefId="A2E35B359075101A8C300AA01A0000" SchoolYear="2004">
  <StartDate>2003-01-05</StartDate>
  <EndDate>2004-04-01</EndDate>
  <Description>Spring Semester 2004</Description>
  <RelativeDuration>0.1333</RelativeDuration>
  <TermCode>SP2004</TermCode>
</TermInfo>
    
```

Example 3.15.31-1: TermInfo

3.16 Student Record Exchange Task Force

3.16.1 StudentRecordExchange

This object contains references to the set of records associated with and available for a given student.

SIF_Events are not reported for this object.

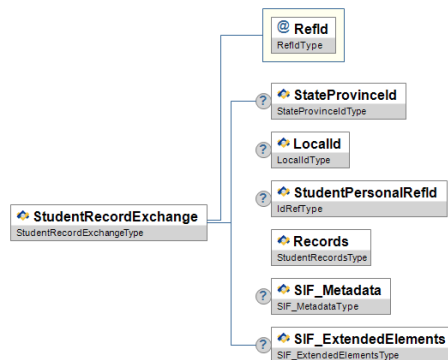


Figure 3.16.1-1: StudentRecordExchange

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentRecordExchange				This object contains references to the set of records associated with and available for a given student.	
@ RefId	M			The GUID that uniquely identifies an instance of this object. This RefId is a "transient" value; that is, it SHOULD be generated by the provider at the time the object is provided in a Response message. This value MUST NOT be used in a later Request for the object.	RefIdType
StateProvinceId	C		000364 https://ceds.ed.gov/element/000364	A unique student identifier outside of SIF. To request this object for a given student, one or more of StateProvinceId, LocalId or StudentPersonalRefId must be included when querying; matched records include one or more of the supplied values.	StateProvinceIdType
LocalId	C			A locally-defined student identifier.	LocalIdType
StudentPersonalRefId	C			An associated StudentPersonal object.	IdRefType
Records	M			All records associated with the student.	StudentRecordsType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.16.1-1: StudentRecordExchange

```

JSON XML
<?xml version="1.0" encoding="UTF-8" standalone="yes">
  <StudentRecordExchange RefId="0EAF9D6D4854F348103B048FEAC582">
    <StateProvinceId>2993472</StateProvinceId>
    <Records>
      <StudentDemographicRecordRefId>9B4AC4176FED4F00CB6F9F1AE446F02</StudentDemographicRecordRefId>
      <StudentAcademicRecordRefId>912E349B2D04C54811273922B58A3</StudentAcademicRecordRefId>
      <StudentSpecialEducationRecordRefId>BA927170E7944D428E1107F50C4BCB08</StudentSpecialEducationRecordRefId>
    </Records>
  </StudentRecordExchange>
  </?xml>
    
```

Example 3.16.1-1: StudentRecordExchange

3.16.2 StudentDemographicRecord

Conveys a student's demographic data for student record exchange and transcript purposes.

This object is designed to be a dual-purpose object. It can be linked to a StudentRecordExchange object for record exchange purposes. There may also be Zones where systems can provide this information for record exchange systems or general informational purposes, in which case the object can be linked directly to StudentPersonal.

SIF_Events are not reported for this object.

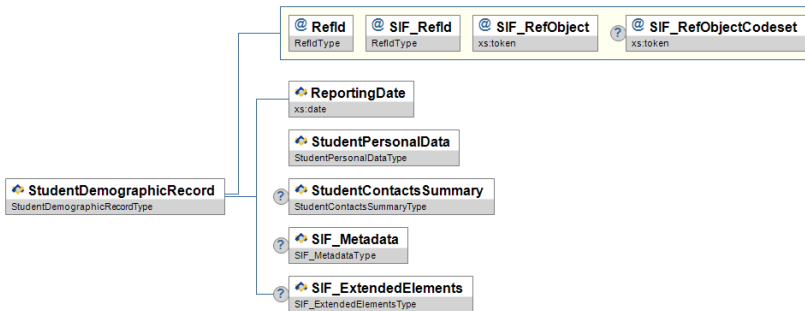


Figure 3.16.2-1: StudentDemographicRecord

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentDemographicRecord				Conveys a student's demographic data for student record exchange and transcript purposes. This object is designed to be a dual-purpose object. It can be linked to a StudentRecordExchange object for record exchange purposes. There may also be Zones where systems can provide this information for record exchange systems or general informational purposes, in which case the object can be linked directly to StudentPersonal.	
@ RefId	M			The Id (GUID) of this record.	RefIdType
@ SIF_RefId	M			The GUID of an associated object, either StudentRecordExchange or StudentPersonal.	RefIdType
@ SIF_RefObject	M			The associated object type.	xs:token
@ SIF_RefObjectCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
ReportingDate	M			The date this record was prepared.	xs:date
StudentPersonalData	M			Collects elements of interest from StudentPersonal.	StudentPersonalDataType
StudentContactsSummary	O			Reports up to two parents/guardians of the student.	StudentContactsSummaryType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.16.2-1: StudentDemographicRecord

```

JSON XML
<?xml version="1.0" encoding="UTF-8" standalone="yes">
  <StudentDemographicRecord RefId="9B4AC4176FED4F00CB6F9F1AE446F02" SIF_RefObject="StudentRecordExchange" SIF_RefId="0EAF9D6D4854F348103B048FEAC582">
    <ReportingDate>2006-09-26</ReportingDate>
    <StudentPersonalData>
      <LocalId>00356</LocalId>
      <StateProvinceId>2993472</StateProvinceId>
      <SIB>3991934</SIB>
    </StudentPersonalData>
  </StudentDemographicRecord>
  </?xml>
    
```

Example 3.16.2-1: StudentDemographicRecord

3.16.3 StudentAcademicRecord

This object conveys a student's academic record data for student record exchange and transcript purposes.

This object is designed to be a dual-purpose object. It can be linked to a `StudentRecordExchange` object for record exchange purposes. There may also be Zones where systems can provide this information for record exchange systems or general informational purposes, in which case the object can be linked directly to `StudentPersonal`.

SIF_Events are not reported for this object.

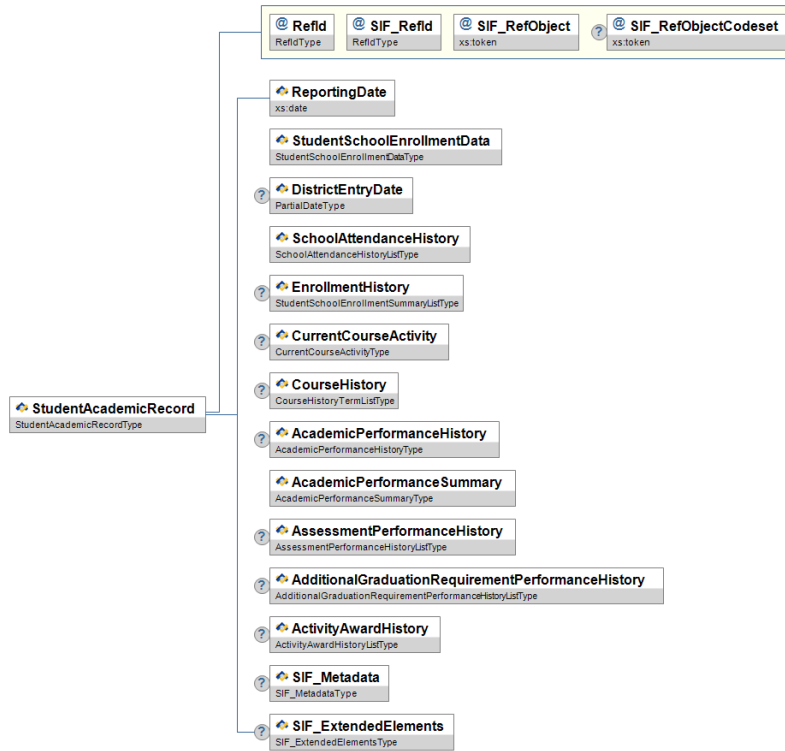


Figure 3.16.3-1: StudentAcademicRecord

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentAcademicRecord				This object conveys a student's academic record data for student record exchange and transcript purposes. This object is designed to be a dual-purpose object. It can be linked to a StudentRecordExchange object for record exchange purposes. There may also be Zones where systems can provide this information for record exchange systems or general informational purposes, in which case the object can be linked directly to StudentPersonal1.	
@ RefId	M		000365 https://ceds.ed.gov/element/000365	The Id (GUID) of this record.	RefIdType
@ SIF_RefId	M			The GUID of an associated object, either StudentRecordExchange or StudentPersonal1.	RefIdType
@ SIF_RefObject	M			The associated object type.	RefToken
@ SIF_RefObjectCodeSet	O			A unique indicator (usually a URL) that points to the codeset used.	RefToken
ReportingDate	M			The date this record was prepared.	xs:date
StudentSchoolEnrollmentData	M			Collects elements of interest from StudentSchoolEnrollment.	StudentSchoolEnrollmentDataType
DistrictEntryDate	O			The date the student originally enrolled in the district of the school of record.	PartialDateType
SchoolAttendanceHistory	M			Chronology of schools attended in the student's academic career, including the current school if enrolled.	SchoolAttendanceHistoryListType
EnrollmentHistory	O			A list of each enrollment in the schools above (see SchoolAttended).	StudentSchoolEnrollmentSummaryListType
CurrentCourseActivity	C			Note: Mandatory if coursework is underway. Conveys a student's current coursework along with mid-term marks if applicable.	CurrentCourseActivityType
CourseHistory	O			Conveys the coursework completed, performance and attendance information for a student's academic career.	CourseHistoryTermListType
AcademicPerformanceHistory	O			Provides a summary of a student's academic performance by reporting period.	AcademicPerformanceHistoryType
AcademicPerformanceSummary	M			Conveys a cumulative summary of a student's entire academic performance at the time the transcript was generated.	AcademicPerformanceSummaryType
AssessmentPerformanceHistory	C			Note: Mandatory if assessments exist. Conveys a history of assessments that the student has taken throughout his/her academic career.	AssessmentPerformanceHistoryListType
AdditionalGraduationRequirementPerformanceHistory	C			Note: Mandatory if additional graduation requirements exist. Conveys a student's achievements in relation to additional graduation requirements.	AdditionalGraduationRequirementPerformanceHistoryListType
ActivityAwardHistory	C			Note: Mandatory if activities/awards exist. Conveys award the student has received and/or activities in which s/he has been involved.	ActivityAwardHistoryListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementaType

Table 3.16.3.1: StudentAcademicRecord

```

JSON XML
<StudentAcademicRecord RefId="0932E34092D04C048112729922858A93" SIF_RefObject="StudentRecordExchange" SIF_RefId="0EAF906DA854F34103B048FEAC65B2">
  <ReportingDate>2006-09-26</ReportingDate>
  <StudentSchoolEnrollmentData SchoolAttendedRefId="39FA2714A63543B0A773279692589C68">
    <GradeLevel>
      <Code>12</Code>
    </GradeLevel>
  </StudentSchoolEnrollmentData>
</StudentAcademicRecord>
    
```

Example 3.16.3.1: StudentAcademicRecord - Example 1

```

JSON XML
<StudentAcademicRecord RefId="0932E34092D04C048112729922858A93" SIF_RefObject="StudentRecordExchange" SIF_RefId="0EAF906DA854F34103B048FEAC65B2">
  <ReportingDate>2010-07-25</ReportingDate>
  <StudentSchoolEnrollmentData SchoolAttendedRefId="1409021708360F35140071C092A52A4A">
    <Code>12</Code>
  </GradeLevel>
</StudentAcademicRecord>
    
```

Example 3.16.3.2: StudentAcademicRecord - Example 2

3.16.4 StudentSpecialEducationRecord

Conveys a student's special education program information for student record exchange.

This object is designed to be a dual-purpose object. It can be linked to a StudentRecordExchange object for record exchange purposes. There may also be Zones where systems can provide this information for record exchange systems or general informational purposes, in which case the object can be linked directly to StudentPersonal1.

SIF_Events are not reported for this object.

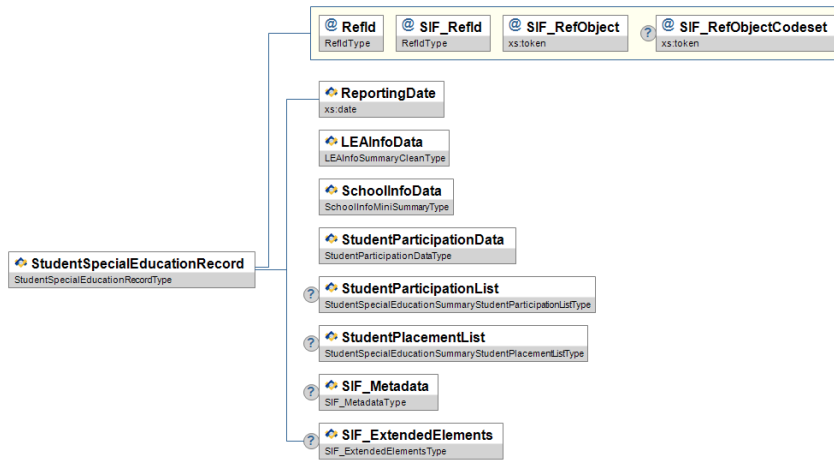


Figure 3.16.4-1: StudentSpecialEducationRecord

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentSpecialEducationRecord				Conveys a student's special education program information for student record exchange. This object is designed to be a dual-purpose object. It can be linked to a <code>StudentRecordExchange</code> object for record exchange purposes. There may also be Zones where systems can provide this information for record exchange systems or general informational purposes, in which case the object can be linked directly to <code>StudentPersonal</code> .	
@ RefId	M			The Id (GUID) of this record.	RefIdType
@ SIF_RefId	M			The GUID of an associated object, either <code>StudentRecordExchange</code> or <code>StudentPersonal</code> .	RefIdType
@ SIF_RefObject	M			The associated object type.	xs.token
@ SIF_RefObjectCodeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs.token
ReportingDate	M			The date this record was prepared.	xs:date
LEAInfoData	M			Identifies the LEA of the "school of record" for the student's information.	LEAInfoSummaryCleanType
SchoolInfoData	M			Identifies the "school of record" responsible for maintaining the student's information.	SchoolInfoMiniSummaryType
StudentParticipationData	M			Collects elements of interest from <code>StudentParticipation</code> .	StudentParticipationDataType
StudentParticipationList	O				StudentSpecialEducationSummaryStudentParticipationListType
StudentPlacementList	O			This list contains information that describes each specific instructional, related or transitional service that has been prescribed or recommended in the program plan developed for a student who has been placed in an individualized special program.	StudentSpecialEducationSummaryStudentPlacementListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.16.4-1: StudentSpecialEducationRecord

3.16.5 StudentRecordPackage

Wraps content or a record not defined by SIF but that is part of a student's records.

This object is designed to be a dual-purpose object. It can be linked to a `StudentRecordExchange` object for record exchange purposes. There may also be Zones where systems can provide this information for record exchange systems or general informational purposes, in which case the object can be linked directly to `StudentPersonal`.

Note: With SIF Implementation Specification version 2.4 the choice element depicted in the diagram below has changed. In the XSD files, the choice element used to be rendered as a sequence of optional elements. Now, in the XSD files, the choice element is rendered as an `xs:choice`. This may cause problems with agents that treat the choice element as two optional elements rather than a choice of one and only one of the choices.

SIF_Events are not reported for this object.



Figure 3.16.5-1: StudentRecordPackage

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentRecordPackage				Wraps content or a record not defined by SIF but that is part of a student's records. This object is designed to be a dual-purpose object. It can be linked to a StudentRecordExchange object for record exchange purposes. There may also be Zones where systems can provide this information for record exchange systems or general informational purposes, in which case the object can be linked directly to StudentPersonal. Note: With SIF Implementation Specification version 2.4 the choice element depicted in the diagram below has changed. In the XSD files, the choice element used to be rendered as a sequence of optional elements. Now, in the XSD files, the choice element is rendered as an xs:choice. This may cause problems with agents that treat the choice element as two optional elements rather than a choice of one and only one of the choices.	Extension of AbstractContentPackageType
@ RefId	M			The GUID that uniquely identifies an instance of the package.	RefIdType
XMLData	C			Contains an arbitrary XML element, encoded in UTF-8.	XMLDataType
TextData	C			Contains arbitrary text, encoded in UTF-8.	TextDataType
BinaryData	C			Contains the base64Binary encoding of binary or text data not encoded in UTF-8.	BinaryDataType
Reference	C			References external content via a URL.	ReferenceType
@ SIF_RefId	M			The GUID of an associated object, either StudentRecordExchange or StudentPersonal.	RefIdType
@ SIF_RefObject	M			The associated object type.	xs:token

Table 3.16.5-1: StudentRecordPackage

```

JSON
XML
<StudentRecordPackage RefId="25FCD7C03B844E38A025FFD69B9D190" SIF_RefId="974C88A3892D4E398B91403D26C0280C" SIF_RefObject="StudentRecordExchange">
  <XMLData xmlns="http://schemas.xmlsoap.org/wsdl/un/2003/08" description="My XML Element" />
  <TextData xmlns="http://schemas.xmlsoap.org/wsdl/un/2003/08" description="My Text Element" />
  <BinaryData xmlns="http://schemas.xmlsoap.org/wsdl/un/2003/08" description="My Binary Element" />
  <Reference xmlns="http://schemas.xmlsoap.org/wsdl/un/2003/08" href="#" />
</StudentRecordPackage>
    
```

Example 3.16.5-1: StudentRecordPackage

3.17 Transportation and Geographic Information Working Group

The goal of Transportation and Geographic Information Working Group is to provide the wealth of information currently locked in the transportation department to the rest of the school community, including transportation as well as geographic information for students.

3.17.1 BusEquipment

This object contains information about a type of equipment that may be on a bus. Examples include wheelchair, car seat, etc.

SIF_Events are reported for this object.

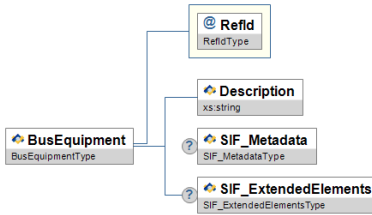


Figure 3.17.1-1: BusEquipment

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
BusEquipment				This object contains information about a type of equipment that may be on a bus. Examples include wheelchair, car seat, etc.	
@ RefId	M			GUID that identifies this type of equipment.	RefIdType
Description	M			Explanation about the type of equipment.	xs:string
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.17.1-1: BusEquipment

```

JSON
XML
<BusEquipment RefId="03E348359075101A8C3D00A001A1652">
  <description>Wheelchair</description>
</BusEquipment>
    
```

Example 3.17.1-1: BusEquipment

3.17.2 BusInfo

This object contains all of the information about a bus.

SIF_Events are reported for this object.

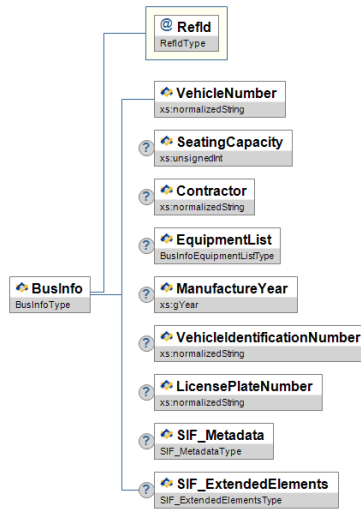


Figure 3.17.2-1: BusInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
BusInfo				This object contains all of the information about a bus.	
@ RefId	M			GUID that identifies this bus.	RefIdType
VehicleNumber	M			Vehicle number of the bus.	xs:normalizedString
SeatingCapacity	O			The number of people who can ride on the bus at the same time.	xs:unsignedInt
Contractor	O			The name of the contractor for this bus.	xs:normalizedString
EquipmentList	O			Describes any special equipment that is on this bus.	BusInfoEquipmentListType
ManufactureYear	O			The manufacture year of the bus (CCYY).	xs:gYear
VehicleIdentificationNumber	O			The Vehicle Identification Number (VIN) of the bus.	xs:normalizedString
LicensePlateNumber	O			The vehicle's license plate number.	xs:normalizedString
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.17.2-1: BusInfo

```

JSON XML
{
  "BusInfo": {
    "RefId": "038348359075101AMC3200A001A1652",
    "VehicleNumber": "43",
    "SeatingCapacity": 43,
    "Contractor": "RTD",
    "EquipmentList": []
  }
}

```

Example 3.17.2-1: BusInfo

3.17.3 BusPositionInfo

This object exposes telematics information to the zone.

SIF_Events are reported for this object.

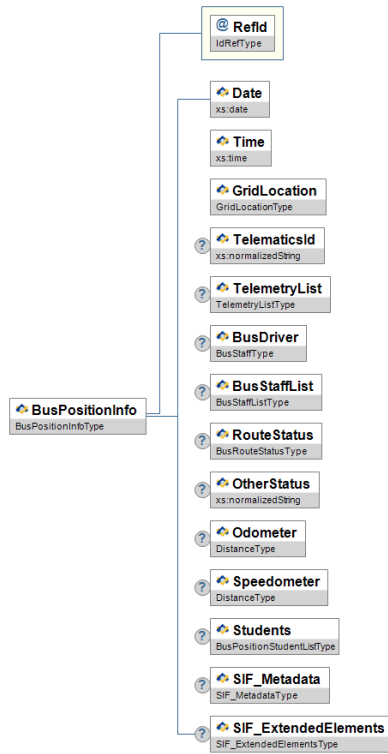


Figure 3.17.3-1: BusPositionInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
BusPositionInfo				This object exposes telematics information to the zone.	
@ RefId	M			The GUID that identifies the bus. This object only has meaning as current data for this particular bus.	IdRefType
Date	M			The date of the report from the bus.	xs:date
Time	M			The time of the report from the bus.	xs:time
GridLocation	M			The location of the bus.	GridLocationType
TelematicsId	O			Id of the hardware unit on the bus that tracks and reports location and status. The interpretation of the content is deployment specific, but the format must be compact.	xs:normalizedString
TelemetryList	O				TelemetryListType
BusDriver	O			Information identifying the driver.	BusStaffType
BusStaffList	O			List identifying other staff. This may include aides, nurses, proctors, etc.	BusStaffListType
RouteStatus	C			If the bus is running a route, this element must be included in the object. Absence means the bus is not operating a route.	BusRouteStatusType
OtherStatus	C			If the bus is not running a regularly scheduled route but is transporting (or positioning to transport) passengers as approved and directed by the school district, this element describes the activity. It's also used for maintenance, repair, and other authorized movements. This element is mutually exclusive with RouteStatus. Absence of both RouteStatus and OtherStatus is acceptable, but may indicate unauthorized operation. The following values are suggested to enhance interoperability, but the field is free-form. Suggested Values: Field Trip Sporting Event Support Services Maintenance Repair	xs:normalizedString
Odometer	O			Current odometer reading.	DistanceType
Speedometer	O			Current speedometer reading.	DistanceType
Students	O			A list of students and their statuses. The complete list may be sent with some events (e.g. change in RouteStatus) per district policy, but it is more typical of responses.	BusPositionStudentListType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.17.3-1: BusPositionInfo

JSON XML

```
<BusPositionInfo RefId="A2E35B359D75101ABC3D00AA01A0000">
</BusPositionInfo>
```

3.17.4 BusRouteDetail

This object contains the schedule for the bus route.
 SIF_Events are reported for this object.

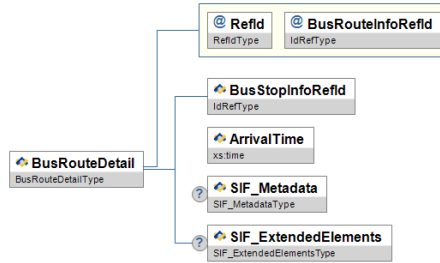


Figure 3.17.4-1: BusRouteDetail

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
BusRouteDetail				This object contains the schedule for the bus route.	
@ RefId	M			GUID that identifies this object.	RefIdType
@ BusRouteInfoRefId	M			GUID that identifies the bus route.	IdRefType
BusStopInfoRefId	M			GUID that identifies a bus stop on the route.	IdRefType
ArrivalTime	M			The time that the bus associated with this route will stop at this bus stop.	xs:time
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.17.4-1: BusRouteDetail

```
JSON XML
<BusRouteDetail RefId="D1E24B3359D75101ABC3D00AA01A1652" BusRouteInfoRefId="C2F23F45088623489B3D00AA01A1652">
  <BusStopInfoRefId="87A345561C97345C0A4E118B112827534"/BusStopInfoRefId>
  <ArrivalTime>15:39:00-08:00</ArrivalTime>
</BusRouteDetail>
```

Example 3.17.4-1: BusRouteDetail

3.17.5 BusRouteInfo

This object contains all of the information about a bus route.
 SIF_Events are reported for this object.

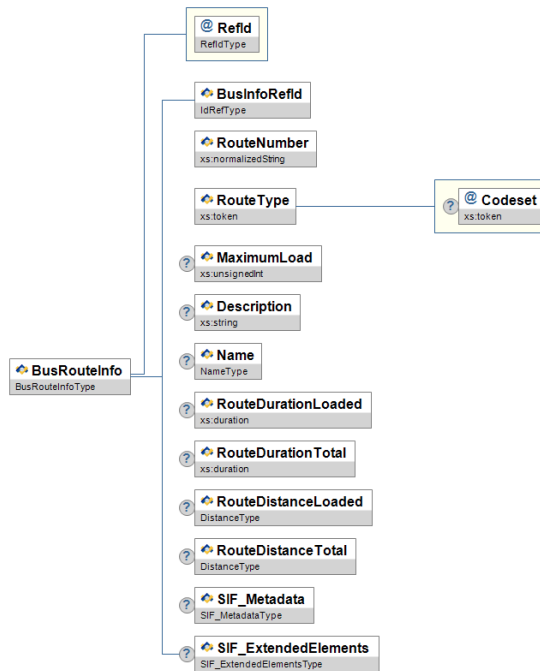


Figure 3.17.5-1: BusRouteInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
BusRouteInfo				This object contains all of the information about a bus route.	
@ RefId	M			GUID that identifies this bus route.	RefIdType
BusInfoRefId	M			GUID that identifies the bus that is associated with this route.	IdRefType
RouteNumber	M			A unique identifier for the route. It may contain any printable ASCII character. For instance, you may have route 16AM in the morning and a 16PM in the afternoon.	xs:normalizedString
RouteType	M			The type of route.	xs:token
@ Codeset	O			A unique indicator (usually a URL) that points to the codeset used.	xs:token
MaximumLoad	O			The maximum number of students who are on the bus at any point along this route.	xs:unsignedInt
Description	O			Short explanation of the route. It may be used to designate an area, or used to color-code bus routes (the "orange" route).	xs:string
Name	O			Name of the driver who drives this route.	NameType
RouteDurationLoaded	O			Refers to the amount of time that at least one student is riding the bus.	xs:duration
RouteDurationTotal	O			Includes time when no student is on the bus, including time driving to and from the garage, etc.	xs:duration
RouteDistanceLoaded	O			Refers to the distance the bus drives when at least one student is riding the bus.	DistanceType
RouteDistanceTotal	O			Includes the total distance driven for this route including to and from garage.	DistanceType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.17.5-1: BusRouteInfo

```

JSON XML
<BusRouteInfo RefId="D3E348359075101ABC3D00AA001A1652">
  <BusInfoRefId>D3E348359075101ABC3D00AA001A1652</BusInfoRefId>
  <RouteNumber>1A3A</RouteNumber>
  <RouteType>1Inbound</RouteType>
  <MaximumLoad>40</MaximumLoad>
  <Description>1st Transfer Bus</Description>

```

Example 3.17.5-1: BusRouteInfo

3.17.6 BusStopInfo

This object contains information about a bus stop.

SIF Events are reported for this object.

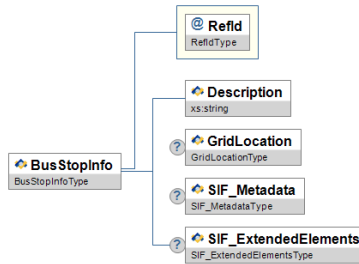


Figure 3.17.6-1: BusStopInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
BusStopInfo				This object contains information about a bus stop.	
@ RefId	M			GUID that identifies this location.	RefIdType
Description	M			An explanation of this location.	xs:string
GridLocation	O			The location of the bus stop.	GridLocationType
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.17.6-1: BusStopInfo

```

JSON XML
<BusStopInfo RefId="D3E348359075101ABC3D00AA001A1652">
  <Description>1st St # Pine Ave</Description>
  <GridLocation>
    <Latitude>41.850000</Latitude>
    <Longitude>-87.650000</Longitude>
  </GridLocation>

```

Example 3.17.6-1: BusStopInfo

3.17.7 StudentTransportInfo

This object contains transportation information about a student. Students should have at least two StudentTransportInfo objects associated with them: one for inbound information (getting to school) and one for outbound information (leaving school). If their transportation changes based on the day of the week, then a student will have more than two StudentTransportInfo objects.

SIF_Events are reported for this object.

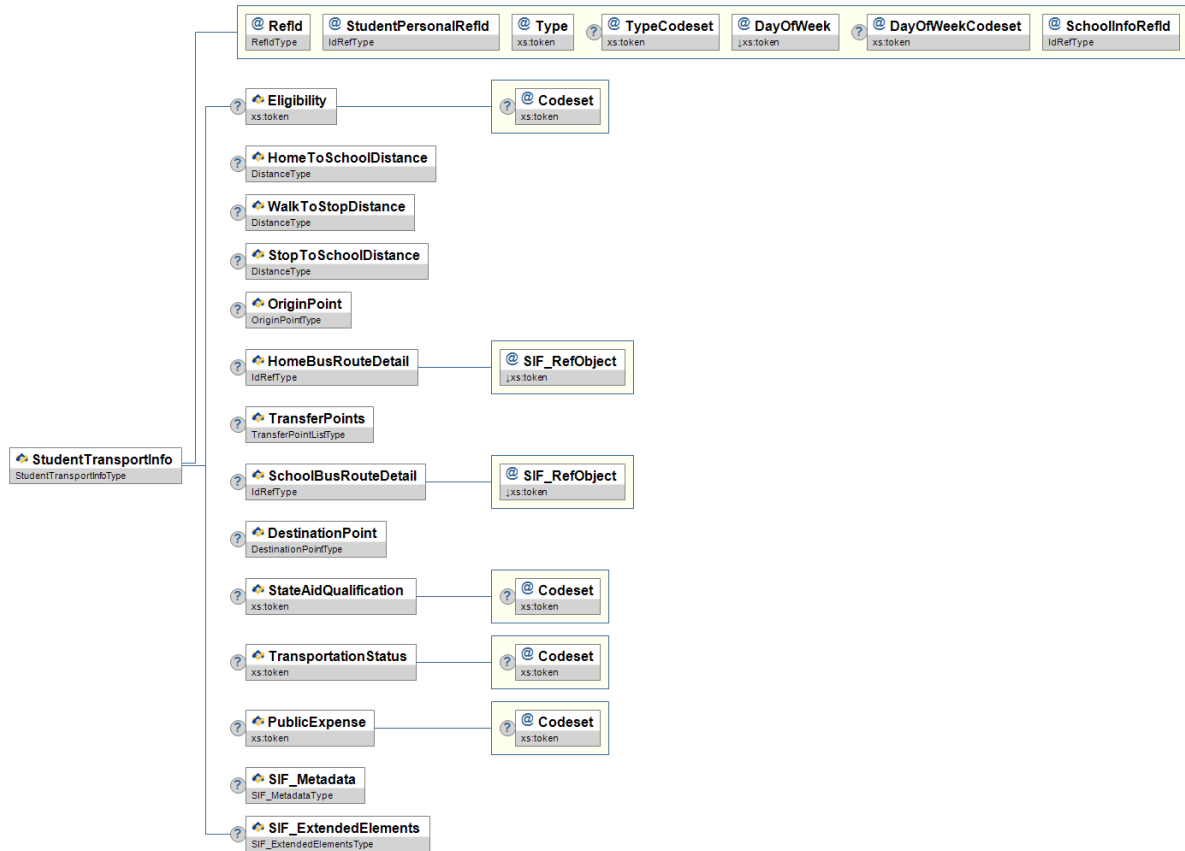


Figure 3.17.7-1: StudentTransportInfo

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
StudentTransportInfo				This object contains transportation information about a student. Students should have at least two StudentTransportInfo objects associated with them: one for inbound information (getting to school) and one for outbound information (leaving school). If their transportation changes based on the day of the week, then a student will have more than two StudentTransportInfo objects.	
@ RefId	M			GUID that identifies this object.	RefIdType
@ StudentPersonalRefId	M			GUID that identifies the student that this object refers to.	IdRefType
@ Type	M			The direction of transportation that this object refers to.	xs:token
@ TypeCodset	O			A unique indicator (usually a URL) that points to the codset used.	xs:token
@ DayOfWeek	M			This attribute indicates the day(s) of the week to which this object refers.	xs:token <small>xs:pattern="(Mo)?(Tu)?(We)?(Th)?(Fr)?(Sa)?(Su)?"</small>
@ DayOfWeekCodset	O			A unique indicator (usually a URL) that points to the codset used.	xs:token
@ SchoolInfoRefId	M			GUID referring to the school that the student attends on these day(s) of the week.	IdRefType
Eligibility	O			Eligibility status of student for district transportation for this trip. Note: this element has been deprecated—use <code>transportationStatus</code> and <code>PublicExpense</code> .	xs:token
@ Codset	O			A unique indicator (usually a URL) that points to the codset used.	xs:token
HomeToSchoolDistance	O			Distance between the student's home address and the school.	DistanceType
WalkToStopDistance	O			Distance between the student's address and the bus stop where they are picked up or dropped off.	DistanceType
StopToSchoolDistance	O			Distance between the bus stop where a student is picked up or dropped off and the school.	DistanceType
OriginPoint	O				OriginPointType
HomeBusRouteDetail	O			GUID referring to a BusRouteDetail object that identifies the origin bus stop for an inbound route or the destination bus stop for an outbound route. If the HomeBusRouteDetail element does not exist, then the student does not ride a bus to/from school. Note: this element has been deprecated—use <code>OriginPoint</code> and <code>DestinationPoint</code> .	IdRefType
@ SIF_RefObject	M				values: BusRouteDetail
TransferPoints	O				TransferPointListType
SchoolBusRouteDetail	O			GUID referring to a BusRouteDetail object that identifies the origin bus stop for an outbound route or the destination bus stop for an inbound route. If the SchoolBusRouteDetail does not exist, then the student does not ride a bus to/from school. Note: this element has been deprecated—use <code>OriginPoint</code> and <code>DestinationPoint</code> .	IdRefType
@ SIF_RefObject	M				values: BusRouteDetail
DestinationPoint	O				DestinationPointType
StateAidQualification	O			The qualification status of a student entitling local education agency to receive state transportation aid.	xs:token
@ Codset	O			A unique indicator (usually a URL) that points to the codset used.	xs:token
TransportationStatus	O			Information about whether or not a student is transported to and/or from school or receives services, aid, or payment in lieu of transportation.	xs:token
@ Codset	O			A unique indicator (usually a URL) that points to the codset used.	xs:token
PublicExpense	O			The eligibility of a student for transportation between home and school at local public expense because of distance, disability, or other reasons.	xs:token
@ Codset	O			A unique indicator (usually a URL) that points to the codset used.	xs:token
SIF_Metadata	O				SIF_MetadataType
SIF_ExtendedElements	O				SIF_ExtendedElementsType

Table 3.17.7-1: StudentTransportInfo

```

JSON XML
<StudentTransportInfo RefId="03E24835907101A8C200AA001A1652" StudentPersonalRefId="C2F23F4508623489B200AA001A1652" Type="Inbound" DayOfWeek="None" School
<EligibilityBus/Eligibility
<HomeToSchoolDistance Unit="m">2.4</HomeToSchoolDistance>
<WalkToStopDistance Unit="m">.4</WalkToStopDistance>
<StopToSchoolDistance Unit="m">2.0</StopToSchoolDistance>
<OriginPoint BusRouteDetailRefId="A8E14835907101A8C200AA001A1652">

```

Example 3.17.7-1: StudentTransportInfo

3.18 xPress Working Group

A simpler set of data objects that can be used by itself or in conjunction with the rest of the rich enterprise data model found here. It is particularly useful when needing an API to communicate basics to applications that would otherwise be kept outside the zone.

3.18.1 xCalendar

xCalendar is a composite object that provides information about sessions held at a particular school during a given school year. The refId of a xCalendar object coincides with the refId of a corresponding schoolCalendar object.

SIF_Events are reported for this object.

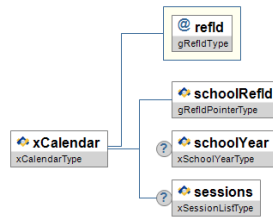


Figure 3.18.1-1: xCalendar

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xCalendar				xCalendar is a composite object that provides information about sessions held at a particular school during a given school year. The refid of a xCalendar object coincides with the refid of a corresponding schoolCalendar object.	
@ refid	M				gRefIdType
schoolRefid	M			The refid to which this calendar applies.	gRefIdPointerType
schoolYear	O			The school year for the calendar.	xschoolYearType
sessions	O			A list of sessions for the calendar.	xsessionListType

Table 3.18.1-1: xCalendar

```

JSON
XML
<xCalendar refid="90F2047D-5235-4096-B2E8-AA96C200F38">
  <schoolRefid66667795-6C51-4C30-A22A-77C8A0F9C53/schoolRefid>
  <schoolYear2014/schoolYear>
  <sessions>
    <sessionTypeSemester/sessionType>
  </sessions>
</xCalendar>
    
```

Example 3.18.1-1: xCalendar

3.18.2 xContact

SIF_Events are reported for this object.

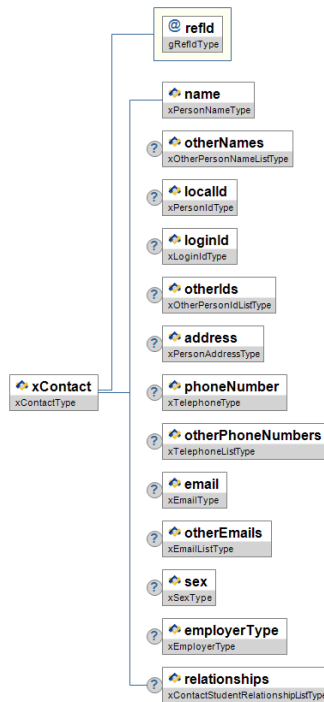


Figure 3.18.2-1: xContact

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xContact					
@ refId	M				gRefIdType
name	M			Name of the contact.	xPersonNameType
otherNames	O			Other names of the contact.	xOtherPersonNameListType
localId	O			A unique number or alphanumeric code assigned to a staff member by a district or LEA.	xPersonIdType
loginId	O		001170 https://ceds.ed.gov/element/001170	The login identifier for the person.	xLoginIdType
otherIds	O			Other ids of the contact.	xOtherPersonIdListType
address	O			Address of the student.	xPersonAddressType
phoneNumber	O			Phone number of the contact.	xTelephoneType
otherPhoneNumbers	O			Other phone numbers for the contact.	xTelephoneListType
email	O		000088 https://ceds.ed.gov/element/000088	The numbers, letters, and symbols used to identify an electronic mail (e-mail) user within the network to which the person or organization belongs.	xEmailType
otherEmails	O		000088 https://ceds.ed.gov/element/000088	Other emails of the contact.	xEmailListType
sex	O		000255 https://ceds.ed.gov/element/000255	The concept describing the biological traits that distinguish the males and females of a species.	xSexType
employerType	O			A code that defines the employer type.	xEmployerType
relationships	O			Relationships that this contact has with the student.	xContactStudentRelationshipListType

Table 3.182-1: xContact

JSON XML

```
<xContact refId="05dd5254-43d7-11e6-b0b8-9071128eae77">
  <name>
    <type>LegalName</type>
    <givenName>John</givenName>
    <familyName>Doe</familyName>
    <givenName>John</givenName>
  </name>
</xContact>
```

Example 3.182-1: xContact

3.18.3 xCourse

xCourse is a composite object that provides essential information about a course. The refId of a xCourse object coincides with the refId of a corresponding course object.

SIF_Events are reported for this object.

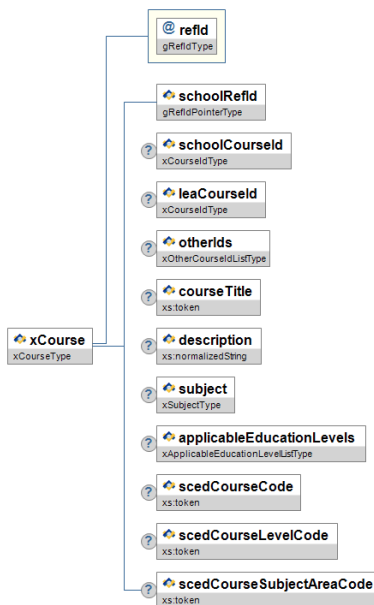


Figure 3.183-1: xCourse

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xCourse				xCourse is a composite object that provides essential information about a course. The refId of a xCourse object coincides with the refId of a corresponding course object.	
@refId	M				gRefIdType
schoolRefId	M			Refid of the school in which the course is delivered.	gRefIdPointerType
schoolCourseId	O		000055 https://ceds.ed.gov/element/000055	The actual code that identifies the organization of subject matter and related learning experiences provided for the instruction of students.	sCourseIdType
leaCourseId	O		000055 https://ceds.ed.gov/element/000055	The actual code that identifies the organization of subject matter and related learning experiences provided for the instruction of students as defined at the district level (i.e. district course code).	sCourseIdType
otherIds	O		000055 https://ceds.ed.gov/element/000055	A system that is used to identify the organization of subject matter and related learning experiences provided for the instruction of students.	sOtherCourseIdListType
courseTitle	O		000067 https://ceds.ed.gov/element/000067	The descriptive name given to a course of study offered in a school or other institution or organization. In departmentalized classes at the elementary, secondary, and postsecondary levels (and for staff development activities), this refers to the name by which a course is identified (e.g., American History, English III). For elementary and other non-departmentalized classes, it refers to any portion of the instruction for which a grade or report is assigned (e.g., reading, composition, spelling, and language arts).	sToken
description	O		000517 https://ceds.ed.gov/element/000517	A description of the course content and/or goals. Reference may be made to state or national content standards.	xsNormalizedString
subject	O				sSubjectType
applicableEducationLevels	O		001301 https://ceds.ed.gov/element/001301	The education level, grade level or primary instructional level at which a course is intended.	sApplicableEducationLevelListType
scedCourseCode	O		001517 https://ceds.ed.gov/element/001517	SCED code for the course.	sToken
scedCourseLevelCode	O		001516 https://ceds.ed.gov/element/001516	SCED Course Level Code.	sToken
scedCourseSubjectAreaCode	O		001518 https://ceds.ed.gov/element/001518	SCED Course Subject Area Code.	sToken

Table 3.18.3-1: xCourse

```

JSON XML
<xCourse refId="08629889-B1A0-42D2-B912-5FA325C98AA">
  <schoolRefId=66667705-6C31-4C30-A22A-77CBA09F9C53/><schoolRefId>
  <otherId>
    <type=Other/>type>
    <id=2808088e/>id>
  </otherId>
</xCourse>
    
```

Example 3.18.3-1: xCourse

3.18.4 xIndividualizedEducationPlan

Information to support Special Education students transferring into a new educational context. Specifically, this model supports these use cases: Use Case 1 (Day Zero): An administrator is able to quickly look at the incoming information to decide where to place the student on the first day. Use Case 2 (Ongoing IEP): A committee on the receiving school quickly understands the needs and services of a student in a way that allows it to take the actions necessary for the student to have the best outcome. Use Case 3 (State Reporting): Data analysts at the receiving school build a complete student profile supporting their reporting and resource management needs.

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 10/17/17
 Significant contributions by
 Jill Parkes, Quality Information Partners
 Megan Gangl, Central Minnesota Educational Research and Development Council
 John Lovell, Access 4 Learning Community

SIF_Events are reported for this object.

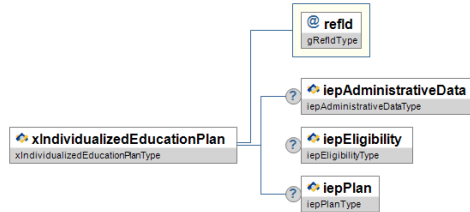


Figure 3.18.4-1: IndividualizedEducationPlan

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xIndividualizedEducationPlan				Information to support Special Education students transferring into a new educational context. Specifically, this model supports these use cases: Use Case 1 (Day Zero): An administrator is able to quickly look at the incoming information to decide where to place the student on the first day. Use Case 2 (Ongoing IEP): A committee on the receiving school quickly understands the needs and services of a student in a way that allows it to take the actions necessary for the student to have the best outcome. Use Case 3 (State Reporting): Data analysts at the receiving school build a complete student profile supporting their reporting and resource management needs. Developed for A4L by TQ White II Central Minnesota Educational Research and Development Council tqwhite@erde.k12.mn.us 10/17/17 Significant contributions by Jill Parkes, Quality Information Partners Megan Gangl, Central Minnesota Educational Research and Development Council John Lovell, Access 4 Learning Community	
@refId	M				gRefIdType
iepAdministrativeData	O				iepAdministrativeDataType
iepEligibility	O				iepEligibilityType
iepPlan	O				iepPlanType

Table 3.18.4-1: IndividualizedEducationPlan

3.18.5 xLea

xLea is a composite object that provides core information about a Local Education Agency (e.g. district, division, intermediate agency). The refId of a xLea object coincides with the refId of a corresponding lea object.

SIF_Events are reported for this object.

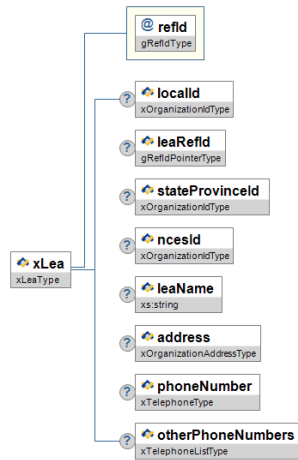


Figure 3.18.5-1: xLea

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xLea				xLea is a composite object that provides core information about a Local Education Agency (e.g. district, division, intermediate agency). The refId of a xLea object coincides with the refId of a corresponding lea object.	
@refId	M				gRefIdType
localId	O		001068 https://ceds.ed.gov/element/001068	A unique number or alphanumeric code assigned to a local education agency by a school system.	xOrganizationIdType
leaRefId	O			The refId for the LEA.	gRefIdPointerType
stateProvinceId	O		001068 https://ceds.ed.gov/element/001068	A unique number or alphanumeric code assigned to a local education agency by a state.	xOrganizationIdType
ncesId	O		001068 https://ceds.ed.gov/element/001068	A unique number or alphanumeric code assigned to a local education agency by NCES.	xOrganizationIdType
leaName	O		000204 https://ceds.ed.gov/element/000204	The name of a non-person entity such as an organization, institution, agency or business; in this case, a Local Education Agency.	xs:string
address	O			The address of the LEA.	xOrganizationAddressType
phoneNumber	O			The phone number of the LEA.	xTelephoneType
otherPhoneNumbers	O			A list of other phone numbers for the LEA.	xTelephoneListType

Table 3.18.5-1: xLea

```

JSON
XML
<xLea refId="9883790-3676-4039-9202-E976C8D95526">
  <localId@70101</localId>
  <stateProvinceId@738121</stateProvinceId>
  <ncesId@123456</ncesId>
  <leaName>Broome County Super District</leaName>
  <address>

```

Example 3.18.5-1: xLea

3.18.6 xRoster

xRoster is a composite object that provides a consolidated view of information related to a course section or class, including student enrollment and assigned staff. The refId of a xRoster object coincides with the refId of a corresponding section object.

SIF_Events are reported for this object.

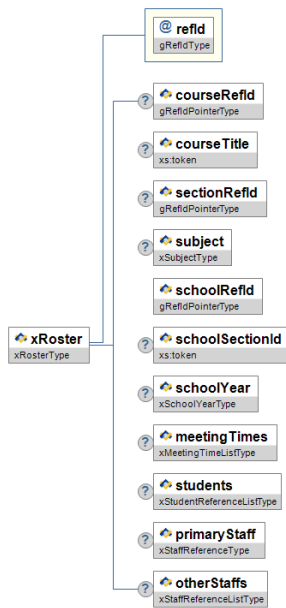


Figure 3.18.6-1: xRoster

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xRoster				xRoster is a composite object that provides a consolidated view of information related to a course section or class, including student enrollment and assigned staff. The refId of a xRoster object coincides with the refId of a corresponding section object.	
@refId	M				gRefIdType
courseRefId	O			RefId of the course for this section.	gRefIdPointerType
courseTitle	O		000067 https://ceds.ed.gov/element/000067	The descriptive name given to a course of study offered in a school or other institution or organization. In departmentalized classes at the elementary, secondary, and postsecondary levels (and for staff development activities), this refers to the name by which a course is identified (e.g., American History, English III). For elementary and other non-departmentalized classes, it refers to any portion of the instruction for which a grade or report is assigned (e.g., reading, composition, spelling, and language arts).	xs.token
sectionRefId	O			RefId of the section.	gRefIdPointerType
subject	O				xSubjectType
schoolRefId	M			RefId of the school.	gRefIdPointerType
schoolSectionId	O		000978 https://ceds.ed.gov/element/000978	A unique number or alphanumeric code assigned by an institution, school, school system, state, or other agency or entity for a particular course-section.	xs.token
schoolYear	O		000243 https://ceds.ed.gov/element/000243	The year for a reported school session.	xSchoolYearType
meetingTimes	O			A list of meeting times for the section.	xMeetingTimeListType
students	O			A list of students associated with the roster.	xStudentReferenceListType
primaryStaff	O			The primary staff person for the section.	xStaffReferenceType
otherStaffs	O			Other staff persons associated with the section.	xStaffReferenceListType

Table 3.18.6-1: xRoster

```

JSON XML
<xRoster refId="0A850682-8151-4897-8226-867C1D58281">
  <courseRefId>98C82918-F073-4F12-A957-6A86C93068A</courseRefId>
  <courseTitle>Sci 7</courseTitle>
  <subject>Technology</subject>
  <schoolRefId>64647705-6051-4C30-A22A-77C8A0F9C53</schoolRefId>
  <schoolSectionId>2N86695124/schoolSectionId</schoolSectionId>
</xRoster>
    
```

Example 3.18.6-1: xRoster

3.18.7 xSchool

xSchool is a composite object that provides essential information about a school building or campus. The refId of a xSchool object coincides with the refId of a corresponding school object.

SIF_Events are reported for this object.

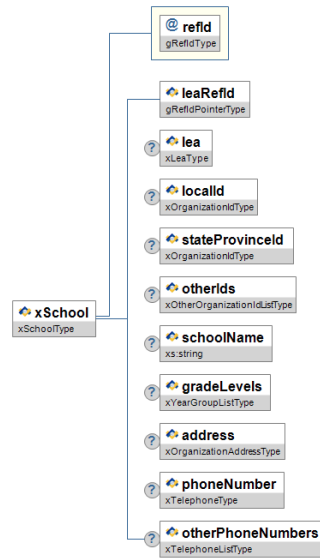


Figure 3.18.7-1: xSchool

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xSchool				xSchool is a composite object that provides essential information about a school building or campus. The refId of a xSchool object coincides with the refId of a corresponding school object.	
@ refId	M				gRefIdType
leaRefId	M			RefId of the LEA of which the school is a part.	gRefIdPointerType
lea	O			An administrative unit within K-12 education at the local level which exists primarily to operate schools or to contract for educational services. These units may or may not be co-extensive with county, city, or towns boundaries.	xLeaType
localId	O		001071 https://ceds.ed.gov/element/001071	A unique number or alphanumeric code assigned to a school by a district or LEA.	xOrganizationIdType
stateProvinceId	O		001071 https://ceds.ed.gov/element/001071	A unique number or alphanumeric code assigned to a school by a state.	xOrganizationIdType
otherIds	O			A list of other Ids for the school.	xOtherOrganizationIdListType
schoolName	O		000191 https://ceds.ed.gov/element/000191	The full legally accepted name of the institution.	xs:string
gradeLevels	O		000131 https://ceds.ed.gov/element/000131	The specific grade or combination of grades offered by an education institution.	xYearGroupListType
address	O			Address of the school.	xOrganizationAddressType
phoneNumber	O			Phone number of the school.	xTelephoneType
otherPhoneNumbers	O			A list of other phone numbers for the school.	xTelephoneListType

Table 3.18.7-1: xSchool

```

JSON XML
<xSchool refId="66467795-4C51-4C30-A22A-77CEA9F9C53">
  <leaRefId="98A8379D-9A3D-4059-9202-B976ADF5526"</leaRefId>
  <localId="542234"/>
  <stateProvinceId="546725"/>
  <otherIds>
    </otherIds>
  </xSchool>
    
```

Example 3.18.7-1: xSchool

3.18.8 xStaff

xStaff is a composite object that provides a view of the most commonly used core data elements for teachers and non-teaching staff. The refId of a xStaff object coincides with the refId of a corresponding staff object.

SIF_Events are reported for this object.

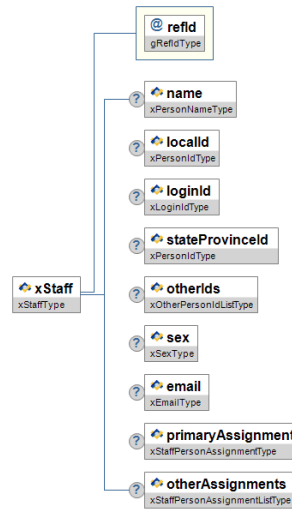


Figure 3.18.8-1: xStaff

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xStaff				xStaff is a composite object that provides a view of the most commonly used core data elements for teachers and non-teaching staff. The refId of a xStaff object coincides with the refId of a corresponding staff object.	
@ refId	M				gRefIdType
name	O			Name of the staff person.	xPersonNameType
localId	O			A unique number or alphanumeric code assigned to a staff member by a district or LEA.	xPersonIdType
loginId	O		001170 https://ceds.ed.gov/element/001170	The login identifier for the person.	xLoginIdType
stateProvincId	O		001070 https://ceds.ed.gov/element/001070	A unique number or alphanumeric code assigned to a staff member by a state.	xPersonIdType
otherIds	O			Other Ids for the person.	xOtherPersonIdListType
sex	O		000255 https://ceds.ed.gov/element/000255	The concept describing the biological traits that distinguish the males and females of a species.	xSexType
email	O		000088 https://ceds.ed.gov/element/000088		xEmailType
primaryAssignment	O			The primary district, school, and function to which the person is assigned.	xStaffPersonAssignmentType
otherAssignments	O			Other locations and functions to which the person is assigned.	xStaffPersonAssignmentListType

Table 3.18.8-1: xStaff

```

JSON XML
<xStaff refId="0a3638e4-8a65-4873-a971-096192d88055">
  <name>
    <type>LegalName</type>
    <familyName>Olson</familyName>
    <givenName>Brandon</givenName>
    <id>olson</id>
  </name>

```

Example 3.18.8-1: xStaff

3.18.9 xStudent

xStudent is a composite object that provides a view of the most commonly used core data elements for students, and references to important associated objects like contacts. The refId of a xStudent object coincides with the refId of a corresponding student object.

SIF_Events are reported for this object.

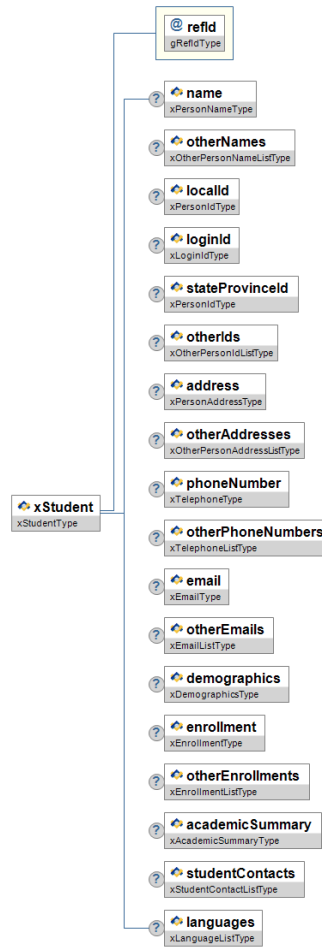


Figure 3.18.9-1: xStudent

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xStudent				xStudent is a composite object that provides a view of the most commonly used core data elements for students, and references to important associated objects like contacts. The refId of a xStudent object coincides with the refId of a corresponding student object.	
@ refId	M				gRefIdType
name	O			Name of Student.	sPersonNameType
otherNames	O				sOtherPersonNameListType
localId	O		001071 https://ceds.ed.gov/element/001071	A unique number or alphanumeric code assigned to a staff member by a district or LEA.	sPersonIdType
loginId	O		001170 https://ceds.ed.gov/element/001170	The login identifier for the person.	sLoginIdType
stateProvinceId	O		001071 https://ceds.ed.gov/element/001071	A unique number or alphanumeric code assigned to a student by a state.	sPersonIdType
otherIds	O			Other Ids for the student	sOtherPersonIdListType
address	O			Address of the student.	sPersonAddressType
otherAddresses	O			Address of the student.	sOtherPersonAddressListType
phoneNumber	O			Phone number of the student.	sTelephoneType
otherPhoneNumbers	O			Other phone numbers for the student.	sTelephoneListType
email	O			Email of the student.	sEmailType
otherEmails	O			Other emails for the student.	sEmailListType
demographics	O			Demographic information about the student.	sDemographicType
enrollment	O			Current enrollment information for the student.	sEnrollmentType
otherEnrollments	O			Other enrollment information for the student.	sEnrollmentListType
academicSummary	O			Summary academic information for the student.	sAcademicSummaryType
studentContacts	O			Persons that may be contacted regarding the student.	sStudentContactListType
languages	O			Languages of the student.	sLanguageListType

Table 3.18.9-1: xStudent

JSON XML

```
<xStudent refId="0A1F0995-378B-4111-89E8-0378251832P0">
  <name>
    <type>LegalName</type>
    <familyName>Dobson</familyName>
    <givenName>William</givenName>
    <middleName>Wesley</middleName>
  </name>
</xStudent>
```

Example 3.18.9-1: xStudent

3.18.10 xTransferIep

SIF_Events are reported for this object.

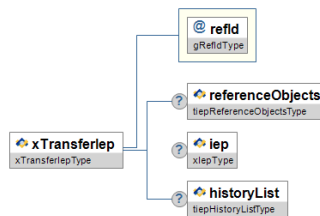


Figure 3.18.10-1: xTransferIep

Element/@Attribute	Char	Privacy Rating	CEDS Id/URL	Description	Type
xTransferIep					
@ refId	M				gRefIdType
referenceObjects	O				IepReferenceObjectsType
iep	O				IepType
historyList	O				IepHistoryListType

Table 3.18.10-1: xTransferIep

Appendix A: Common Types

Common and supporting types referenced in this specification are included here as a reference.

A.1 AbstractContentElementType

AbstractContentPackageType used as an element rather than an object, omitting RefId, SIF_Metadata and SIF_ExtendedElements.

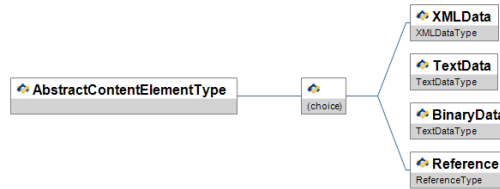


Figure A.1-1: AbstractContentElementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AbstractContentElementType			AbstractContentPackageType used as an element rather than an object, omitting RefId, SIF_Metadata and SIF_ExtendedElements.	
XMLData	C		Contains an arbitrary XML element, encoded in UTF-8.	XMLDataType
TextData	C		Contains arbitrary text, encoded in UTF-8.	TextDataType
BinaryData	C		Contains the base64Binary encoding of binary or text data not encoded in UTF-8.	TextDataType
Reference	C		References external content via a URL.	ReferenceType

Table A.1-1: AbstractContentElementType

A.2 AbstractContentPackageType

An abstract type for derived content package types, elements and objects. This structure may be used verbatim, optionally extending with additional attributes, or may be redefined to include only a subset of child elements and/or to add validation to XML contained in XMLData. Only one instance of XMLData, TextData, BinaryData or Reference can occur in a single instance.

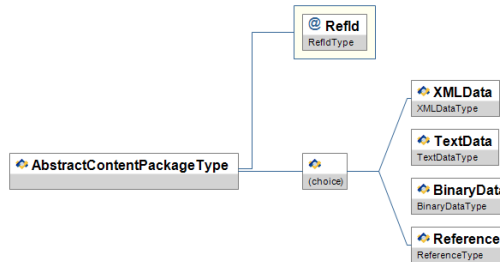


Figure A.2-1: AbstractContentPackageType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AbstractContentPackageType			An abstract type for derived content package types, elements and objects. This structure may be used verbatim, optionally extending with additional attributes, or may be redefined to include only a subset of child elements and/or to add validation to XML contained in XMLData. Only one instance of XMLData, TextData, BinaryData or Reference can occur in a single instance. AbstractContentPackageType is the base type for the following data types: <ul style="list-style-type: none"> ReportPackageType 	
@ RefId	M		The GUID that uniquely identifies an instance of the package.	RefIdType
XMLData	C		Contains an arbitrary XML element, encoded in UTF-8.	XMLDataType
TextData	C		Contains arbitrary text, encoded in UTF-8.	TextDataType
BinaryData	C		Contains the base64Binary encoding of binary or text data not encoded in UTF-8.	BinaryDataType
Reference	C		References external content via a URL.	ReferenceType

Table A.2-1: AbstractContentPackageType

A.3 AcademicFocusListType



Figure A.3-1: AcademicFocusListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AcademicFocusListType				List
AcademicFocus	OR		Indicates the general nature and difficulty of instruction provided throughout a course.	AcademicFocusType

Table A.3-1: AcademicFocusListType

A.4 AcademicFocusType

Indicates the general nature and difficulty of instruction provided throughout a course.

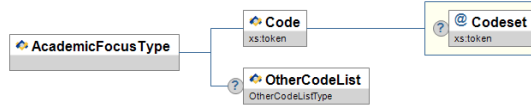


Figure A.4-1: AcademicFocusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AcademicFocusType	OR		Indicates the general nature and difficulty of instruction provided throughout a course.	
Code	M		A code to depict the focus of the educational program (replaces deprecated AcademicTrack).	xs.token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs.token
OtherCodeList	O		Alternate codes indicating the general nature and difficulty of the educational program.	OtherCodeListType

Table A.4-1: AcademicFocusType

A.5 AcademicPerformanceHistoryTermInfoDataType

Collects elements of interest from TermInfo.

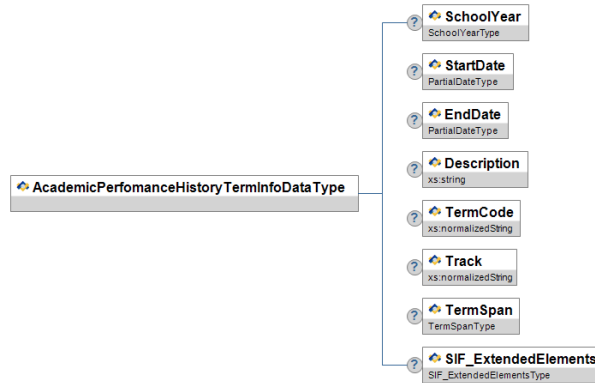


Figure A.5-1: AcademicPerformanceHistoryTermInfoDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AcademicPerformanceHistoryTermInfoDataType			Collects elements of interest from TermInfo.	
SchoolYear	O			SchoolYearType
StartDate	O			PartialDateType
EndDate	O	000253 https://ceds.ed.gov/element/000253		PartialDateType
Description	O			xs:string
TermCode	O			xs:normalizedString
Track	O			xs:normalizedString
TermSpan	O			TermSpanType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.5-1: AcademicPerformanceHistoryTermInfoDataType

A.6 AcademicPerformanceHistoryType

Provides a summary of a student's academic performance by reporting period.

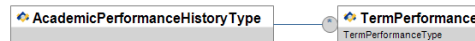


Figure A.6-1: AcademicPerformanceHistoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AcademicPerformanceHistoryType			Provides a summary of a student's academic performance by reporting period.	List
TermPerformance	OR		Individual term performance.	TermPerformanceType

Table A.6-1: AcademicPerformanceHistoryType

A.7 AcademicPerformanceSummaryType

Conveys a cumulative summary of a student's entire academic performance at the time the transcript was generated.

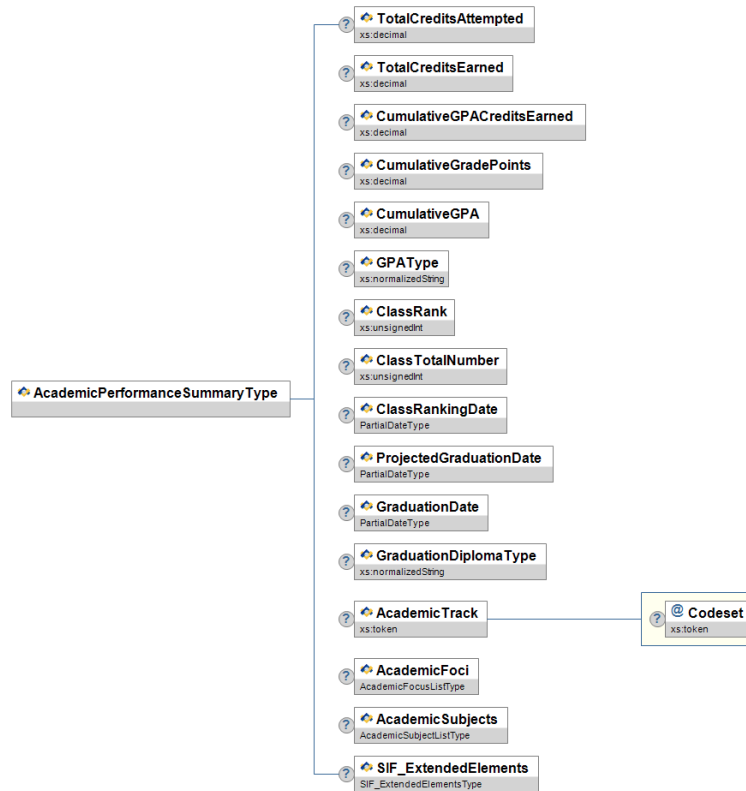


Figure A.7-1: AcademicPerformanceSummaryType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
AcademicPerformanceSummaryType			Conveys a cumulative summary of a student's entire academic performance at the time the transcript was generated.	
TotalCreditsAttempted	O	000073 https://ceds.ed.gov/element/000073	Total credits attempted during academic career.	xs:decimal
TotalCreditsEarned	O	000074 https://ceds.ed.gov/element/000074	Total credits earned during academic career.	xs:decimal
CumulativeGPACreditsEarned	O	000130 https://ceds.ed.gov/element/000130	Cumulative number of GPA credits earned during academic career.	xs:decimal
CumulativeGradePoints	O		Cumulative number of grade points earned during academic career.	xs:decimal
CumulativeGPA	O	000128 https://ceds.ed.gov/element/000128	Cumulative grade point average for academic career.	xs:decimal
GPAType	O		Brief name/description of type of GPA.	xs:normalizedString
ClassRank	O	000041 https://ceds.ed.gov/element/000041	Student's rank in graduating class.	xs:unsignedInt
ClassTotalNumber	O	000294 https://ceds.ed.gov/element/000294	Total number of students in student's graduating class.	xs:unsignedInt
ClassRankingDate	O	000042 https://ceds.ed.gov/element/000042	Date class ranking was determined.	PartialDateType
ProjectedGraduationDate	O	000226 https://ceds.ed.gov/element/000226	Projected graduation date.	PartialDateType
GraduationDate	C	000081 https://ceds.ed.gov/element/000081	Note: Mandatory if graduated. Graduation date.	PartialDateType
GraduationDiplomaType	C	000138 https://ceds.ed.gov/element/000138	Note: Mandatory if graduated. Type of diploma earned.	xs:normalizedString
AcademicTrack	O		An indication of the general nature and difficulty of instruction provided throughout a course. Note: This element is deprecated, in favor of the two elements below, beginning with Version 2.2.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
AcademicFoci	O			AcademicFocusListType
AcademicSubjects	O			AcademicSubjectListType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.7-1: AcademicPerformanceSummaryType

A.8 AcademicSubjectListType

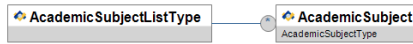


Figure A.8-1: AcademicSubjectListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AcademicSubjectListType				List
AcademicSubject	OR		Coding to depict an intended subject area.	AcademicSubjectType

Table A.8-1: AcademicSubjectListType

A.9 academicSubjectSimpleType

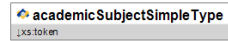


Figure A.9-1: academicSubjectSimpleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
academicSubjectSimpleType	O			values: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Table A.9-1: academicSubjectSimpleType

A.10 AcademicSubjectType

Coding to depict an intended subject area.

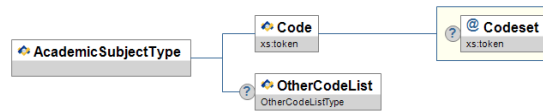


Figure A.10-1: AcademicSubjectType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AcademicSubjectType			Coding to depict an intended subject area.	
Code	M		A code to depict an academic or vocational discipline studied by an individual in an educational program (based on NCES CIP 2000).	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O		Alternate codes for an academic or vocational discipline studied by an individual in an educational program.	OtherCodeListType

Table A.10-1: AcademicSubjectType

A.11 AccommodationCategoryType

Defines a general category of test accommodation.

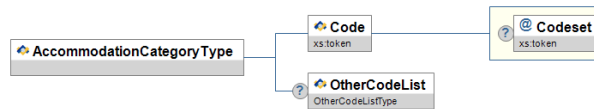


Figure A.11-1: AccommodationCategoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AccommodationCategoryType	O		Defines a general category of test accommodation.	
Code	M			xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.11-1: AccommodationCategoryType

A.12 accuracyPercentEvaluationSimpleType



Figure A.12-1: accuracyPercentEvaluationSimpleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
accuracyPercentEvaluationSimpleType	O			xs:decimal

Table A.12-1: accuracyPercentEvaluationSimpleType

A.13 ActionListSpecialConditionType

A description of the special condition. Student special conditions are different from special conditions of the test.



Figure A.13-1: ActionListSpecialConditionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ActionListSpecialConditionType			A description of the special condition. Student special conditions are different from special conditions of the test.	xs:string
@ Code	M		A code indicating the type of special condition.	xs:boolean
@ SIF_Action	O		In a change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum the key for the list must also be present.	values: delete

Table A.13-1: ActionListSpecialConditionType

A.14 ActivityAwardHistoryListType

Note: Mandatory if activities/awards exist. Conveys award the student has received and/or activities in which s/he has been involved.



Figure A.14-1: ActivityAwardHistoryListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ActivityAwardHistoryListType			Note: Mandatory if activities/awards exist. Conveys award the student has received and/or activities in which s/he has been involved.	list
ActivityAward	MR		A record of an individual award or activity	ActivityAwardHistoryType

Table A.14-1: ActivityAwardHistoryListType

A.15 ActivityAwardHistoryType

A record of an individual award or activity

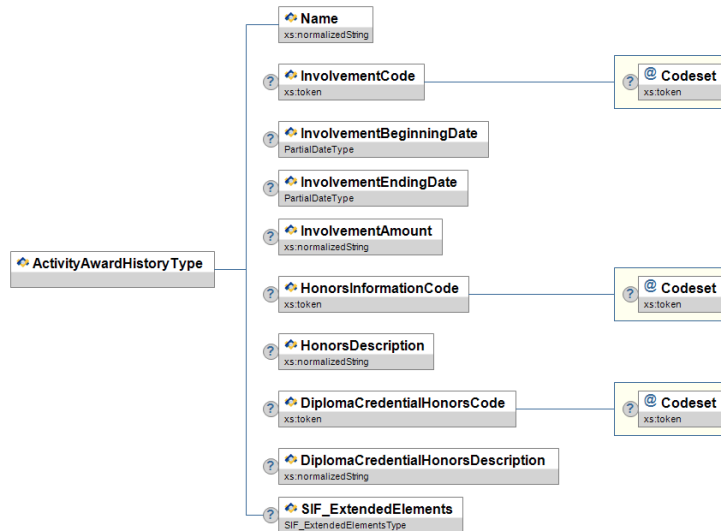


Figure A.15-1: ActivityAwardHistoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ActivityAwardHistoryType			A record of an individual award or activity	
Name	M		The title that identifies a particular co-curricular or extra-curricular activity.	xs:normalizedString
InvolvementCode	O		The code used to identify the co-curricular or extra-curricular activity in which the individual is involved.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
InvolvementBeginningDate	O		The month, day, and year on which the individual began to participate in the activity.	PartialDateType
InvolvementEndingDate	O		The month, day, and year on which the individual ceased to participate in the activity.	PartialDateType
InvolvementAmount	O		An indication of the degree to which the individual is involved in the activity (e.g., number of hours per week).	xs:normalizedString
HonorsInformationCode	O		A designation of the type of academic distinctions or other honors earned by or awarded to the student. Note: HonorsInformationCode and HonorsDescription are related to honors (athletic award, citizenship award/recognition, medals, honor society membership, etc.) other than graduation and scholar awards and scholarships. DiplomaCredentialHonorsCode and DiplomaCredentialHonorsDescription are focused on graduation honors like cum laude designations (magna, summa), scholar and honors awards, scholarships, and such.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
HonorsDescription	O	000150 https://ceds.ed.gov/element/000150	A textual description of the distinction or honor.	xs:normalizedString
DiplomaCredentialHonorsCode	O	000713 https://ceds.ed.gov/element/000713	The nature of recognition given the student for the successful completion of work in high school.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
DiplomaCredentialHonorsDescription	O	000229 https://ceds.ed.gov/element/000229	A textual description of the recognition.	xs:normalizedString
SIF_ExtendedElements	O			SIF_ExtendedElementType

Table A.15-1: ActivityAwardHistoryType

A.16 ActivityEvaluationType

Field for non-numeric types of grading and evaluation such as "narrative."

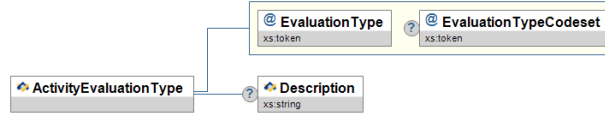


Figure A.16-1: ActivityEvaluationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ActivityEvaluationType	O		Field for non-numeric types of grading and evaluation such as "narrative."	
@ EvaluationType	M		A qualifier for what type of evaluation this is. Valid values are "Inline" and "RefId". Inline values are contained in the optional Description element. RefIds are contained in the AssessmentRefId element.	xs:token
@ EvaluationTypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Description	O		A free text description of the evaluation to be used for this activity	xs:string

Table A.16-1: ActivityEvaluationType

A.17 ActivityRefIdListType

Links to Activity objects

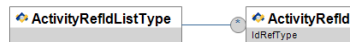


Figure A.17-1: ActivityRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ActivityRefIdListType			Links to Activity objects	List
ActivityRefId	OR		Link to Activity object	IdRefType

Table A.17-1: ActivityRefIdListType

A.18 ActivityTimeType

Time structures for an activity.

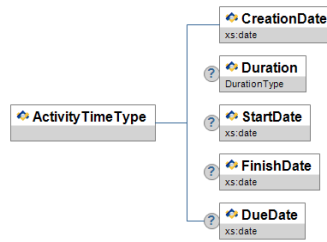


Figure A.18-1: ActivityTimeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ActivityTimeType			Time structures for an activity.	
CreationDate	M		Creation date of the activity.	xs:date
Duration	O		Time required to complete the activity.	DurationType
StartDate	O		Date activity is started.	xs:date
FinishDate	O		Date activity is finished.	xs:date
DueDate	O		Date activity is due.	xs:date

Table A.18-1: ActivityTimeType

A.19 AdditionalGraduationRequirementPerformanceHistoryListType

Note: Mandatory if additional graduation requirements exist. Conveys a student's achievements in relation to additional graduation requirements.



Figure A.19-1: AdditionalGraduationRequirementPerformanceHistoryListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AdditionalGraduationRequirementPerformanceHistoryListType			Note: Mandatory if additional graduation requirements exist. Conveys a student's achievements in relation to additional graduation requirements.	List
Requirement	MR		A record of performance in an individual graduation requirement.	AdditionalGraduationRequirementPerformanceHistoryType

Table A.19-1: AdditionalGraduationRequirementPerformanceHistoryListType

A.20 AdditionalGraduationRequirementPerformanceHistoryType

A record of performance in an individual graduation requirement.

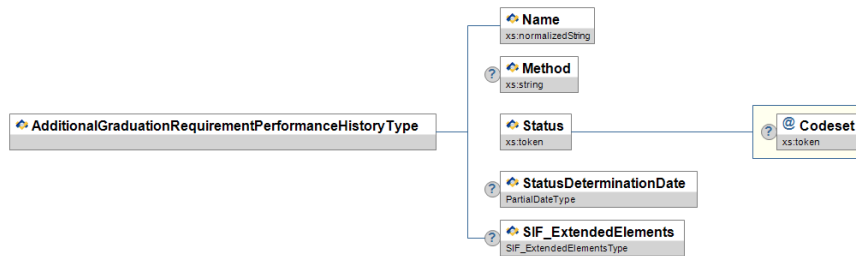


Figure A.20-1: AdditionalGraduationRequirementPerformanceHistoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AdditionalGraduationRequirementPerformanceHistoryType			A record of performance in an individual graduation requirement.	
Name	M		Textual description of the requirement.	xs:normalizedString
Method	O		The method by which the requirement was met.	xs:string
Status	M		Student's status with regard to the requirement.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
StatusDeterminationDate	O		Date the student's status was determined.	PartialDateType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.20-1: AdditionalGraduationRequirementPerformanceHistoryType

A.21 AddressListType

A list of Address elements.

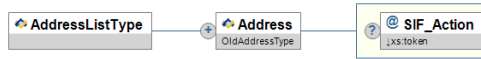


Figure A.21-1: AddressListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AddressListType			A list of Address elements.	ActionList (Address/#Type)
Address	MR			Extension of OldAddressType
@ SIF_Action	O		In a change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum the key for the list must also be present.	values: Delete

Table A.21-1: AddressListType

```

JSON
XML
<AddressList>
  <Address Type="0123">
    <Street>
      <Line>1 1th Plaza/Line1
      <Line>2 2000/Line2
      <Line>3 3rd Street/Line3
      <Line>4 4th Street/Line4
      <Line>5 5th Street/Line5
      <Line>6 6th Street/Line6
      <Line>7 7th Street/Line7
      <Line>8 8th Street/Line8
      <Line>9 9th Street/Line9
      <Line>10 10th Street/Line10
    
```

Example A.21-1: AddressListType

A.22 AddressRefIdListType

References to separate potentially reusable, shared, or pre-verified addresses.



Figure A.22-1: AddressRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AddressRefIdListType			References to separate potentially reusable, shared, or pre-verified addresses.	
AddressRefId	OR		Reference to an address.	gRefIdPointerType
@ AddressRole	O		The type or function of the address, e.g., summer address, mailing address, residential address, etc.	xs:string

Table A.22-1: AddressRefIdListType

A.23 AggregateCharacteristicInfoRefIdListType

Reference to one or more AggregateCharacteristicInfo objects.



Figure A.23-1: AggregateCharacteristicInfoRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AggregateCharacteristicInfoRefIdListType			Reference to one or more AggregateCharacteristicInfo objects.	List
AggregateCharacteristicInfoRefId	MR		Reference to an AggregateCharacteristicInfo object.	IdRefType

Table A.23-1: AggregateCharacteristicInfoRefIdListType

A.24 AggregateStatisticInfoLocationType

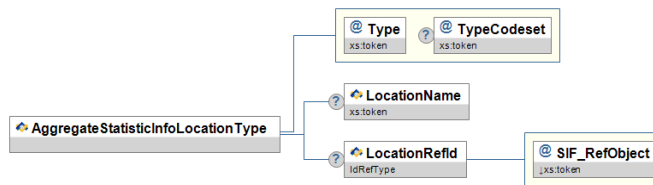


Figure A.24-1: AggregateStatisticInfoLocationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AggregateStatisticInfoLocationType				
@ Type	M			xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
LocationName	O		Name of the location	xs:token
LocationRefId	O		RefId of the location object if the location is a SIF object such as SchoolInfo.	IdRefType
@ SIF_RefObject	M		Type of SIF object Location points to.	values: SchoolInfo EDInfo RoomInfo

Table A.24-1: AggregateStatisticInfoLocationType

A.25 AlertMessagesType

A list of alert messages associated with the student.

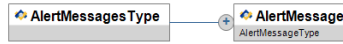


Figure A.25-1: AlertMessagesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AlertMessagesType	O		A list of alert messages associated with the student.	List
AlertMessage	MR		This is an alert message that is associated with the student.	AlertMessageType

Table A.25-1: AlertMessagesType

A.26 AlertMessageType

This is an alert message that is associated with the student.

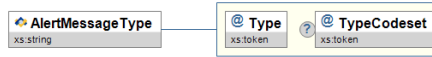


Figure A.26-1: AlertMessageType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AlertMessageType	MR		This is an alert message that is associated with the student.	xs:string
@Type	M		This attribute specifies what type of alert message this is.	xs:token
@TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.26-1: AlertMessageType

A.27 AlternateIdentificationCodeListType

A list of alphanumeric Id codes as defined by the organization to identify a statement.



Figure A.27-1: AlternateIdentificationCodeListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AlternateIdentificationCodeListType			A list of alphanumeric Id codes as defined by the organization to identify a statement.	List
AlternateIdentificationCode	MR		An alphanumeric Id code as defined by the organization to identify a statement.	xs:normalizedString

Table A.27-1: AlternateIdentificationCodeListType

A.28 AnnualItemListType

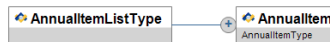


Figure A.28-1: AnnualItemListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AnnualItemListType				List
AnnualItem	MR		Contains information about the item being summarized.	AnnualItemType

Table A.28-1: AnnualItemListType

A.29 AnnualItemType

Contains information about the item being summarized.

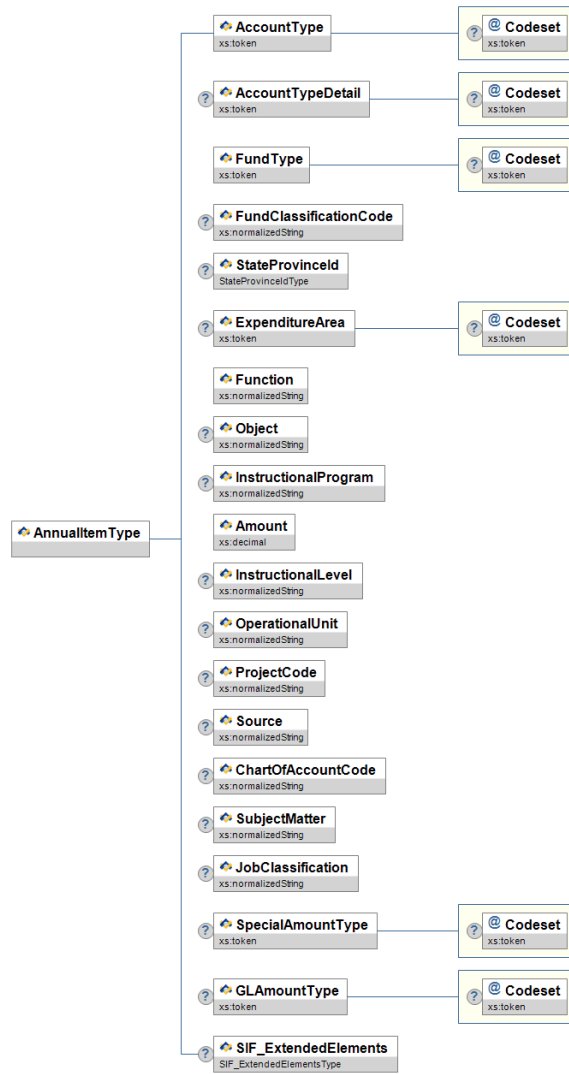


Figure A.29-1: AnnualItem Type

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
AnnualItemType			Contains information about the item being summarized.	
AccountType	M		Classification of budgetary account code summary	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
AccountTypeDetail	O		Use AccountTypeDetail when AccountType is "Other". For instance, when an AccountType="Other", and the AccountTypeDetail value is Long Term Asset.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
FundType	M		Is the account a general or special account code designation?	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
FundClassificationCode	O		A fund is a separate fiscal and accounting entity with a self-balancing set of accounts recording cash and other financial resources, together with all related liabilities and residual equities or balances, or changes therein, e.g. the code for Debt Service Funds, or Capital Projects Funds, or Pension Funds, to name a few examples.	xs:normalizedString
StateProvinceId	O		State-assigned Id for the relative area in which the expenditure/revenue was used.	StateProvinceIdType
ExpenditureArea	O		Relative area in which the expenditure was used.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Function	M		Function break in account code for summarization. The function describes the activity for which a service or material object is acquired. (Definition from NCES, Financial Accounting for Local and State School Systems.)	xs:normalizedString
Object	O		Object break in account code for summarization. The function describes the activity for which a service or material object is acquired. (Definition from NCES, Financial Accounting for Local and State School Systems.)	xs:normalizedString
InstructionalProgram	O		Instructional program break in account code for summarization	xs:normalizedString
Amount	M		Summarized amount.	xs:decimal
InstructionalLevel	O		An identifier for the level of instruction provided by the facility or operational unit e.g. Middle, Elementary, Prekindergarten, Charter This has greater granularity than the SIF element ExpenditureArea. Examples Middle Elementary Prekindergarten Adult Education Elementary and secondary combined Community/Junior College	xs:normalizedString
OperationalUnit	O		The code for a location, building, organization code, facility or site. For example, this code can identify a Charter School or Maintenance Facility.	xs:normalizedString
ProjectCode	O		A code used for project reporting. For instance, according to NCES, this code can be parsed to identify the particular funding source, authority, or expenditure purpose for which a special record or report is required, and to identify particular projects and the fiscal year of the appropriation within that funding source.	xs:normalizedString
Source	O		Codes used for recording revenue and other receivables by source, e.g. codes for Taxes Levied/Assessed by the School District, Sales and Use Taxes, code for Textbook Sales and Rentals, etc.	xs:normalizedString
CharOfAccountCode	O		Balance Sheet account number used for an Asset, Liability, or Equity (equity also known as Net Asset or Fund Balance), e.g. a code for Cash in Bank, or Interfund Loans Payable, or Unreserved Fund Balance, etc.	xs:normalizedString
SubjectMatter	O		The actual code that identifies the organization of subject matter and related learning experiences provided for the instruction of students.	xs:normalizedString
JobClassification	O		A code that classifies an expense; a description of the specific group of duties and responsibilities, e.g. Staff Career Development Alternatives. (NCES, National Education Data Model, http://nces.ed.gov/forum/databrowser/techview.aspx?instance=staffAssignment&attrib=Professional-Educational_Job_Classification).	xs:normalizedString
SpecialAmountType	O		With regard to regional/local education service agencies report of "special" account code information, the account code summarization can be classified as:	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
GLAmountType	O		General Ledger Amount Type. With regard to an account code grouping classified as a General Ledger account:	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.29.1: AnnualItemType

A.30 ApprovalListType

Authorizations to use this resource. For example, this resource may be included as part of the district's standard curriculum model.



Figure A.30.1: ApprovalListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ApprovalListType			Authorizations to use this resource. For example, this resource may be included as part of the district's standard curriculum model.	List
Approval	OR		A sub-element containing an authorization to use this resource. For example, this resource may be included as part of the district's standard curriculum model.	ApprovalType

Table A.30-1: ApprovalListType

A.31 ApprovalType

A sub-element containing an authorization to use this resource. For example, this resource may be included as part of the district's standard curriculum model.

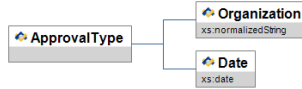


Figure A.31-1: ApprovalType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ApprovalType			A sub-element containing an authorization to use this resource. For example, this resource may be included as part of the district's standard curriculum model.	
Organization	M		Name of agency that approved use of resource.	xs:normalizedString
Date	M		Date resource was approved.	xs:date

Table A.31-1: ApprovalType

A.32 AssessmentDescriptorListType

Describes what type of assessment this represents.



Figure A.32-1: AssessmentDescriptorListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssessmentDescriptorListType	O		Describes what type of assessment this represents.	List
AssessmentDescriptor	OR			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.32-1: AssessmentDescriptorListType

A.33 AssessmentFormNumberListType

Reference numbers for the form.

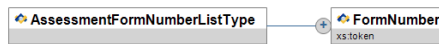


Figure A.33-1: AssessmentFormNumberListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssessmentFormNumberListType	O		Reference numbers for the form.	List
FormNumber	MR	000366 https://ceds.ed.gov/element/000366	Reference number for the form.	xs:token

Table A.33-1: AssessmentFormNumberListType

A.34 AssessmentItemChoiceListType

Choices of responses to an assessment item.



Figure A.34-1: AssessmentItemChoiceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssessmentItemChoiceListType	C		Choices of responses to an assessment item.	
Choice	MR			AssessmentItemChoiceType

Table A.34-1: AssessmentItemChoiceListType

A.35 AssessmentItemChoiceType

Choice of responses to an assessment item.

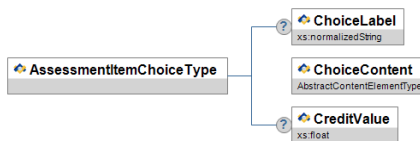


Figure A.35-1: AssessmentItemChoiceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssessmentItemChoiceType			Choice of responses to an assessment item.	
ChoiceLabel	O		A choice number or other identifier for the choice. It may be used to indicate the order or grouping of the choices.	xs:normalizedString
ChoiceContent	M		The text of the choice, such as true, 27, or Important economic and social factors.	AbstractContentItemElementType
CreditValue	O		A numeric value that indicates the amount of credit awarded for choosing the choice.	xs:float

Table A.35-1: AssessmentItemChoiceType

A.36 AssessmentPerformanceHistoryListType

Note: Mandatory if assessments exist. Conveys a history of assessments that the student has taken throughout his/her academic career.

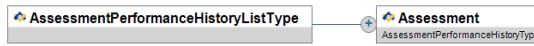


Figure A.36-1: AssessmentPerformanceHistoryListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssessmentPerformanceHistoryListType			Note: Mandatory if assessments exist. Conveys a history of assessments that the student has taken throughout his/her academic career.	List
Assessment	MR		A record of performance on an individual assessment.	AssessmentPerformanceHistoryType

Table A.36-1: AssessmentPerformanceHistoryListType

A.37 AssessmentPerformanceHistoryType

A record of performance on an individual assessment.

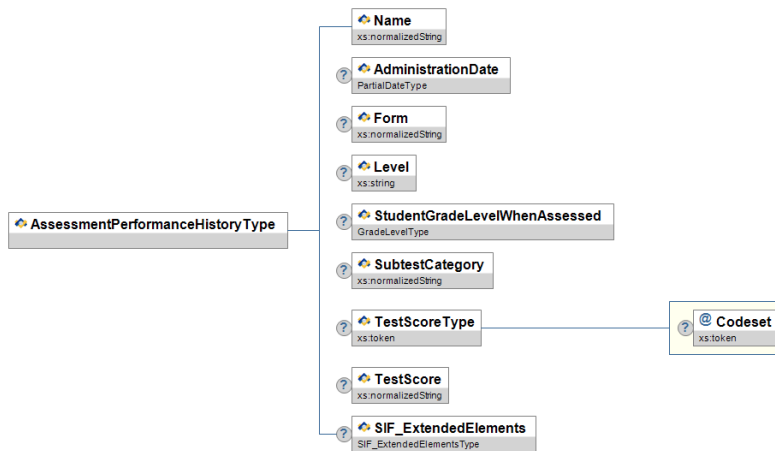


Figure A.37-1: AssessmentPerformanceHistoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssessmentPerformanceHistoryType			A record of performance on an individual assessment.	AssessmentPerformanceHistoryType
Name	M		Textual description of assessment.	xs:normalizedString
AdministrationDate	O		Date the assessment was administered.	PartialDateType
Form	O	000024 https://ceds.ed.gov/element/000024	Form, version or edition of the test.	xs:normalizedString
Level	O		Free-form text description of the level of the test.	xs:string
StudentGradeLevelWhenAssessed	O		Student's grade level when assessed.	GradeLevelType
SubstestCategory	O		The substest or subject category of the assessment.	xs:normalizedString
TestScoreType	O		Type of test score.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
TestScore	O		Test score.	xs:normalizedString
SIF_ExtendedElements	O			SIF_ExtendedElementType

Table A.37-1: AssessmentPerformanceHistoryType

A.38 AssessmentStudentSnapshotType

The status of the student at the time of testing. The source of this information is meant to be the assessment system and not the student information system.

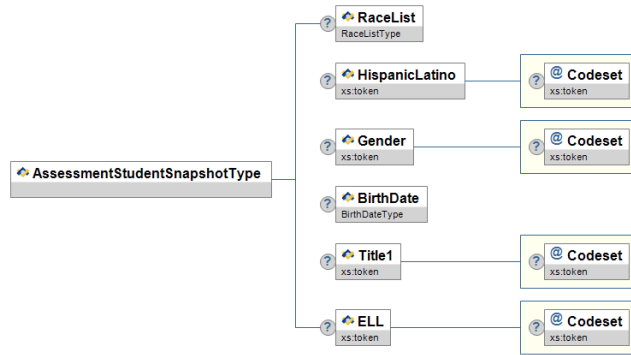


Figure A.38-1: AssessmentStudentSnapshotType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssessmentStudentSnapshotType			The status of the student at the time of testing. The source of this information is meant to be the assessment system and not the student information system.	
RaceList	O		Person's race	RaceListType
HispanicLatino	O			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Gender	O		Person's gender.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
BirthDate	O		The person's date of birth.	BirthDateType
Title1	O			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
ELL	O			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.38-1: AssessmentStudentSnapshotType

A.39 AssessmentSubTestRefIdListType

Associated subtests (score types). Each form can provide scores in one or more subtest areas.



Figure A.39-1: AssessmentSubTestRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssessmentSubTestRefIdListType	O		Associated subtests (score types). Each form can provide scores in one or more subtest areas.	List
AssessmentSubTestRefId	OR	000245 https://ceds.ed.gov/element/000245	A subtest identified by RefId.	IdRefType

Table A.39-1: AssessmentSubTestRefIdListType

A.40 AssignmentTimeType

Time structures for an assignment.

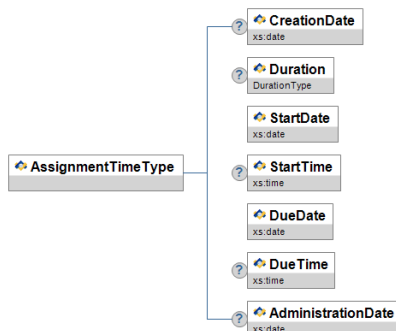


Figure A.40-1: AssignmentTimeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssignmentTimeType			Time structures for an assignment.	
CreationDate	O		Creation date of the assignment	xs:date
Duration	O		Time required to complete the assignment.	durationType
StartDate	M		Date assignment is started.	xs:date
StartTime	O		Time assignment is started.	xs:time
DueDate	M		Date assignment is due.	xs:date
DueTime	O		Time assignment is due.	xs:time
AdministrationDate	O		Date that the assignment was administered to student if an assessment.	xs:date

Table A.40-1: AssignmentTimeType

A.41 AssociatedObjectListType

References from component to associated elements within another SIF object.

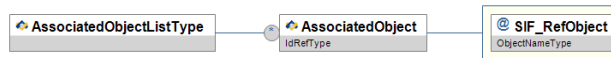


Figure A.41-1: AssociatedObjectListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssociatedObjectListType			References from component to associated elements within another SIF object.	List
AssociatedObject	OR		Reference from component to associated elements within another SIF object.	IdRefType
@ SIF_RefObject	M		Attribute that identifies the type of SIF object being referenced.	ObjectNameType

Table A.41-1: AssociatedObjectListType

A.42 AssociatedRoleRefIdType

The RefId of the *Personal SIF_Object representing this Person's role .



Figure A.42-1: AssociatedRoleRefIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AssociatedRoleRefIdType			The RefId of the *Personal SIF_Object representing this Person's role .	IdRefType
@ Zone_Id	O		The ZoneId for the target object.	xs:token
@ Type	M		The object type of the Person's associated role.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.42-1: AssociatedRoleRefIdType

A.43 AttendanceCodeType

The local attendance code.



Figure A.43-1: AttendanceCodeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AttendanceCodeType	M		The local attendance code.	xs:token
@ AttendanceCodeInfoRefId	M			IdRefType

Table A.43-1: AttendanceCodeType

A.44 AttendanceInfoType

Information describing how the day relates to attendance.

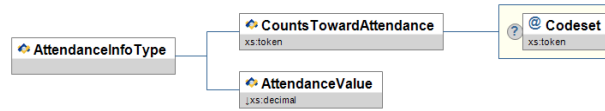


Figure A.44-1: AttendanceInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AttendanceInfoType	O		Information describing how the day relates to attendance.	
CountsTowardAttendance	M		Designates whether this date should be counted toward student attendance.	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
AttendanceValue	M		Amount of the school day in which the student should be in attendance (Format is x.x; a student who should be in attendance a full day would be represented as 1.0). If CountsTowardAttendance equals Yes then AttendanceValue must be greater than zero.	xs:decimal

Table A.44-1: AttendanceInfoType

A.45 AuditInfoCreationUserType

Information about which staff member created this attendance record.

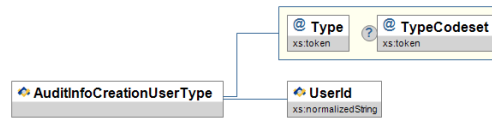


Figure A.45-1: AuditInfoCreationUserType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AuditInfoCreationUserType			Information about which staff member created this attendance record.	
Type	M		The role of the staff member for that created this attendance record.	xs:token
TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
UserId	M		Unique identifier of the user that created the attendance record. This will depend on the user and the source. The preferred identifier would be a RefId for a StaffPersonal, StudentContact, or StudentPersonal Object. However, the user may not be associated with any of these SIF objects. In that case a unique Id given by the source should be used.	xs:normalizedString

Table A.45-1: AuditInfoCreationUserType

A.46 AuthenticationInfoSystemType

An identifying string for the system that supports this authentication information.



Figure A.46-1: AuthenticationInfoSystemType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AuthenticationInfoSystemType			An identifying string for the system that supports this authentication information.	xs:normalizedString minLength="1" maxLength="255"
Type	M		Specific type of user identification.	xs:token
TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.46-1: AuthenticationInfoSystemType

A.47 AuthenticationInfoType

The authentication information for one system.

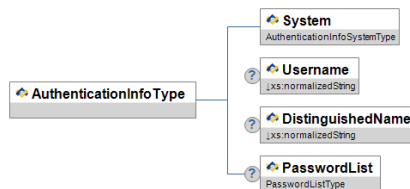


Figure A.47-1: AuthenticationInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AuthenticationInfoType			The authentication information for one system.	
System	M		An identifying string for the system that supports this authentication information.	AuthenticationInfoSystemType
Username	O		The identification string for this user.	xs:normalizedString [see max length] 44
DistinguishedName	O		This is the distinguished name of the user in a network directory system.	xs:normalizedString [see max length] 255
PasswordList	O		Allows a provider or publisher to specify the same password using multiple algorithms, if supported.	PasswordListType

Table A.47-1: AuthenticationInfoType

A.48 authorizingOfficialsListType

Education officials authorizing



Figure A.48-1: authorizingOfficialsListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
authorizingOfficialsListType			Education officials authorizing	
authorizingOfficial	O		Proved identity of authorizing official	lepCommonAuthorizingPersonType

Table A.48-1: authorizingOfficialsListType

A.49 AuthorListType

Names of authors

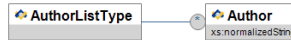


Figure A.49-1: AuthorListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
AuthorListType	O		Names of authors	List
Author	OR		Name of author	xs:normalizedString

Table A.49-1: AuthorListType

A.50 BackgroundCheckListType

List of background checks performed on employee



Figure A.50-1: BackgroundCheckListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BackgroundCheckListType			List of background checks performed on employee	List
BackgroundCheck	OR		Information about background check done on employee	BackgroundCheckType

Table A.50-1: BackgroundCheckListType

A.51 BackgroundCheckType

Information about background check done on employee

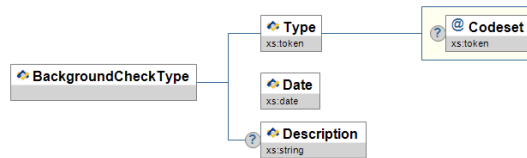


Figure A.51-1: BackgroundCheckType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BackgroundCheckType			Information about background check done on employee	
Type	M		Background check type	xs:token
CodeSet	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Date	M		Date on which background type was checked	xs:date
Description	O		Description of background check performed	xs:string

Table A.51-1: BackgroundCheckType

A.52 BaselineListType

List of pre-assessment data used to evaluate the student on the learning objective.

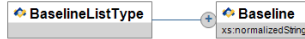


Figure A.52-1: BaselineListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BaselineListType	O		List of pre-assessment data used to evaluate the student on the learning objective.	List
Baseline	MR		The pre-assessment data to evaluate the student on the learning objective.	xs:normalizedString

Table A.52-1: BaselineListType

A.53 BaseNameType

Base type, without attributes, for name elements, primarily to allow structure to be leveraged with different type attribute values.

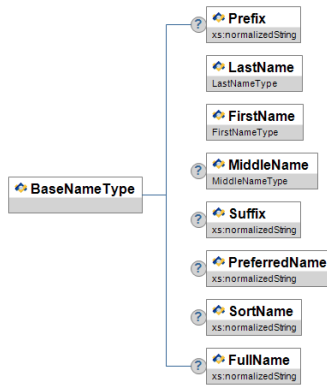


Figure A.53-1: BaseNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BaseNameType			Base type, without attributes, for name elements, primarily to allow structure to be leveraged with different type attribute values. BaseNameType is the base type for the following data types: <ul style="list-style-type: none"> OtherNameType NameOfRecordType NameType 	
Prefix	O		A prefix associated with the name like Mr., Ms., etc.	xs:normalizedString
LastName	M		The last name.	LastNameType
FirstName	M		The first name.	FirstNameType
MiddleName	O		The middle name or initial.	MiddleNameType
Suffix	O		Generation of suffix like II, Jr., etc.	xs:normalizedString
PreferredName	O		This is a name that the person prefers to be called by.	xs:normalizedString
SortName	O		This is the name to be used for sorting purposes.	xs:normalizedString
FullName	O		A free text field for the complete name.	xs:normalizedString

Table A.53-1: BaseNameType

```

JSON XML
<Name>
  <Prefix>MR</Prefix>
  <CardName>Woodhill</CardName>
  <FirstName>Charles</FirstName>
  <MiddleName>William</MiddleName>
  <PreferredName>Chuck</PreferredName>
</Name>
    
```

Example A.53-1: BaseNameType

A.54 BellPeriodListType

The bell periods for this school year bell schedule.



Figure A.54-1: BellPeriodListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BellPeriodListType	M		The bell periods for this school year bell schedule.	List
BellPeriod	MR		An entry for each unique bell period for the bell schedule.	BellPeriodType

Table A.54-1: BellPeriodListType

A.55 BellPeriodType

An entry for each unique bell period for the bell schedule.

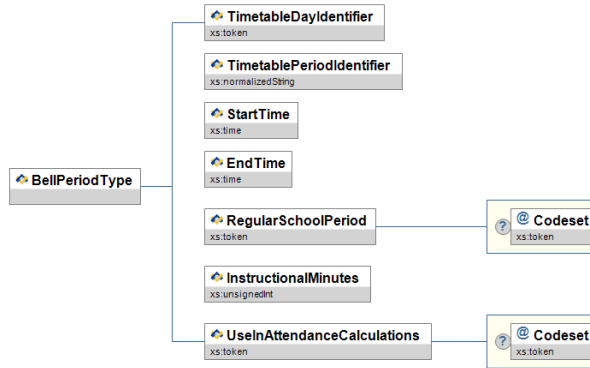


Figure A.55-1: BellPeriodType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BellPeriodType	MR		An entry for each unique bell period for the bell schedule.	
TimetableDayIdentifier	M		The unique identifier for the timetable day used for the bell period (from the day list above).	xs:token
TimetablePeriodIdentifier	M		The unique identifier for the timetable period used for the bell period (from the period list above).	xs:normalizedString
StartTime	M		The starting time for the bell period.	xs:time
EndTime	M		The ending time for the bell period.	xs:time
RegularSchoolPeriod	M		Indicates if the bell period is part of the regular school day (i.e. is not a before or after school or break period).	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
InstructionalMinutes	M		The number of minutes to be counted for instruction for the bell period.	xs:unsignedInt
UseInAttendanceCalculations	M		Indicates if the bell period should be included in attendance calculations.	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.55-1: BellPeriodType

A.56 BellScheduleDayListType

A list of the bell schedules and the timetable day from that bell schedule to be used for the calendar date.



Figure A.56-1: BellScheduleDayListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BellScheduleDayListType	O		A list of the bell schedules and the timetable day from that bell schedule to be used for the calendar date.	List
BellScheduleDay	MR			BellScheduleDayType

Table A.56-1: BellScheduleDayListType

A.57 BellScheduleDayType

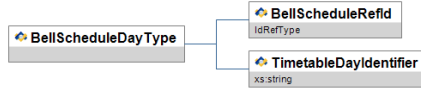


Figure A.57-1: BellScheduleDayType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BellScheduleDayType	MR			
BellScheduleRefId	M		The GUID of a bell schedule to be utilized for the calendar date.	idRefType
TimetableDayIdentifier	M		The unique identifier of a timetable day to be utilized for the calendar date (from the list of timetable days defined for the calendar in the referenced BellSchedule object).	xs:string

Table A.57-1: BellScheduleDayType

A.58 BinaryDataType

Contains the base64Binary encoding of binary or text data not encoded in UTF-8.

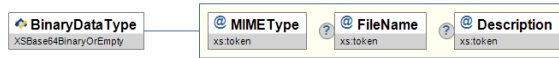


Figure A.58-1: BinaryDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BinaryDataType	C		Contains the base64Binary encoding of binary or text data not encoded in UTF-8.	xs:base64Binary
@ MIMEType	M		MIME type to indicate the content type.	xs:token
@ FileName	O		Optional file name to indicate the file from which the content originated, or to suggest a name to use when saving the content.	xs:token
@ Description	O		Contains an optional description of the content or a processing hint with regard to its structure (e.g. named standard, file layout or XSD). Contents may be mandated in instances of this type, or types that follow the AbstractContentPackageType pattern.	xs:token

Table A.58-1: BinaryDataType

A.59 BirthDateType

A person's date of birth.

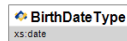


Figure A.59-1: BirthDateType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BirthDateType			A person's date of birth.	xs:date

Table A.59-1: BirthDateType

```

JSON
XML
<BirthDate>1972-08-11</BirthDate>
    
```

Example A.59-1: BirthDateType

A.60 BloomsTaxonomyLevelsType

This is a taxonomy of educational objectives based on three "domains:" Affective, Psychomotor, and Cognitive. For the purposes of assigning attributes to learning resources, the SIF specification is limited to the cognitive domain, including knowledge, comprehension, application, analysis, synthesis and evaluation.



Figure A.60-1: BloomsTaxonomyLevelsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BloomsTaxonomyLevelsType	O		This is a taxonomy of educational objectives based on three "domains:" Affective, Psychomotor, and Cognitive. For the purposes of assigning attributes to learning resources, the SIF specification is limited to the cognitive domain, including knowledge, comprehension, application, analysis, synthesis and evaluation.	List
BloomsTaxonomyLevel	OR			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.60-1: BloomsTaxonomyLevelsType

A.61 BudgetAccountListType



Figure A.61-1: BudgetAccountListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BudgetAccountListType				List
BudgetAccount	MR		Information about budget accounts being submitted.	BudgetAccountType

Table A.61-1: BudgetAccountListType

A.62 BudgetAccountType

Information about budget accounts being submitted.

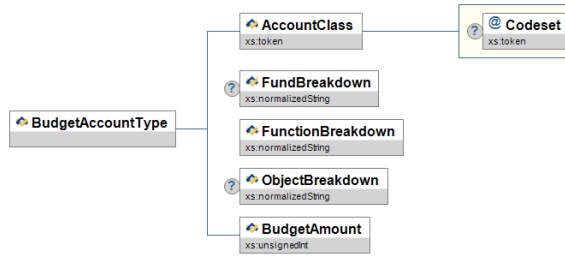


Figure A.62-1: BudgetAccountType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BudgetAccountType			Information about budget accounts being submitted.	
AccountClass	M		Classification of budgetary account code summary	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
FundBreakdown	O		Fund breakdown of account code for summarization.	xs:normalizedString
FunctionBreakdown	M		Function breakdown of account code for summarization.	xs:normalizedString
ObjectBreakdown	O		Object breakdown of account code for summarization.	xs:normalizedString
BudgetAmount	M		Summarized, positive amount without cents for breakdowns	xs:unsignedInt

Table A.62-1: BudgetAccountType

A.63 BusInfoEquipmentListType

Describes any special equipment that is on this bus.

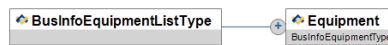


Figure A.63-1: BusInfoEquipmentListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BusInfoEquipmentListType			Describes any special equipment that is on this bus.	List
Equipment	MR		Inventories each piece of special equipment on the bus.	BusInfoEquipmentType

Table A.63-1: BusInfoEquipmentListType

A.64 BusInfoEquipmentType

Inventories each piece of special equipment on the bus.

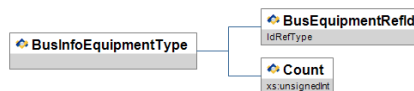


Figure A.64-1: BusInfoEquipmentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BusInfoEquipmentType			Inventories each piece of special equipment on the bus.	
BusEquipmentRefId	M		GUID that identifies the type of equipment.	IdRefType
Count	M		The number of pieces of this type of equipment that are on this bus.	xs:unsignedInt

Table A.64-1: BusInfoEquipmentType

A.65 BusPositionStudentListType

A list of students and their statuses in BusPositionInfo. The complete list may be sent with some events (e.g. change in RouteStatus) per district policy, but it is more typical of responses.

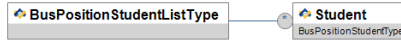


Figure A.65-1: BusPositionStudentListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BusPositionStudentListType			A list of students and their statuses in BusPositionInfo. The complete list may be sent with some events (e.g. change in RouteStatus) per district policy, but it is more typical of responses.	List
Student	OR		Each student's status.	BusPositionStudentType

Table A.65-1: BusPositionStudentListType

A.66 BusPositionStudentType

Each student's status in BusPositionInfo.

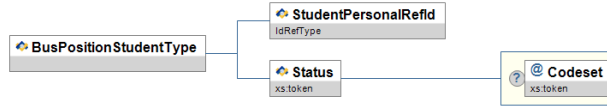


Figure A.66-1: BusPositionStudentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BusPositionStudentType			Each student's status in BusPositionInfo.	
StudentPersonalRefId	M		GUID that identifies the student that this element refers to.	IdRefType
Status	M		Boarding status of this student. Note: Values sched, on and off are typical of responses. Values Entered and Exited are typical of events.	xs.token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs.token

Table A.66-1: BusPositionStudentType

A.67 BusRouteStatusType

If the bus is running a route, this element must be included in the object. Absence means the bus is not operating a route.

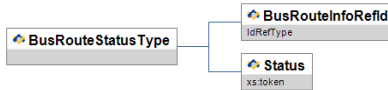


Figure A.67-1: BusRouteStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BusRouteStatusType			If the bus is running a route, this element must be included in the object. Absence means the bus is not operating a route.	
BusRouteInfoRefId	M		The GUID that identifies the route.	IdRefType
Status	M		Status of the route.	xs.token

Table A.67-1: BusRouteStatusType

A.68 BusStaffListType

List identifying other staff. This may include aides, nurses, proctors, etc.



Figure A.68-1: BusStaffListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BusStaffListType			List identifying other staff. This may include aides, nurses, proctors, etc.	List
BusStaff	OR		Information about an individual staff member on the bus.	BusStaffType

Table A.68-1: BusStaffListType

A.69 BusStaffType

Information identifying the driver or other staff on a bus.

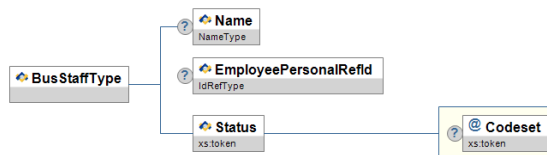


Figure A.69-1: BusStaffType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
BusStaffType			Information identifying the driver or other staff on a bus.	
Name	C		The name of the bus staff. Condition is that at least one of this and EmployeePersonalRefId must be included.	baseType
EmployeePersonalRefId	C		The GUID of the staff's EmployeePersonal object. Condition is that at least one of this and Name must be included.	idRefType
Status	M		Boarding status of the staff.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.69-1: BusStaffType

A.70 CalculationRuleType

Rule for calculating the aggregate statistic

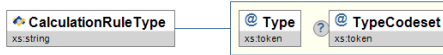


Figure A.70-1: CalculationRuleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CalculationRuleType	O		Rule for calculating the aggregate statistic	xs:string
@ Type	M			xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.70-1: CalculationRuleType

A.71 CalendarDateInfoType

Calendar date type information.

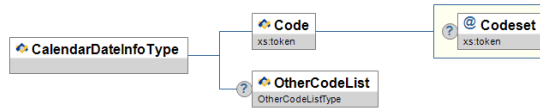


Figure A.71-1: CalendarDateInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CalendarDateInfoType	M		Calendar date type information.	
Code	M	000603 https://ceds.ed.gov/element/000603	Code indicating the type of school day.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.71-1: CalendarDateInfoType

A.72 CheckoutInfoType

If the item is currently checked out to this person, this element contains the date and time that the item is due to be returned.



Figure A.72-1: CheckoutInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CheckoutInfoType			If the item is currently checked out to this person, this element contains the date and time that the item is due to be returned.	
ReturnBy	M		The date and time that this item is due to be returned.	xs:dateTime

Table A.72-1: CheckoutInfoType

A.73 ComponentObjectListType

Component objects, if any, that make up this object.

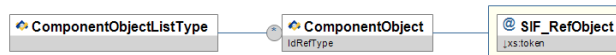


Figure A.73-1: ComponentObjectListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ComponentObjectListType	O		Component objects, if any, that make up this object.	List
ComponentObject	OR		A GUID reference to a component object.	IdRefType
SIF_RefObject	M		The type of learning object being referenced.	values: CurriculumStructure Lesson Activity Assessment LearningResource

Table A.73-1: ComponentObjectListType

A.74 CongressionalDistrictType

Common element used to indicate the number of the U.S. Congressional District in which an entity resides or is physically located.

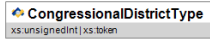


Figure A.74-1: CongressionalDistrictType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CongressionalDistrictType			Number for the US congressional district. While typically numerical, this element does allow for text values to cover exceptions, e.g. to indicate an "at-large" district as in Wyoming.	union of: xs:unsignedInt xs:token

Table A.74-1: CongressionalDistrictType

```

JSON
XML
<CongressionalDistrict>3</CongressionalDistrict>
    
```

Example A.74-1: CongressionalDistrictType

A.75 ContactFlagsType

Contains Yes/No characteristics of the contact person's role. Provide a Yes value for all that apply. At least one of the child elements of ContactFlags must have a Yes value. Do not publish the StudentContact instance if one of the child elements does not have a Yes value.

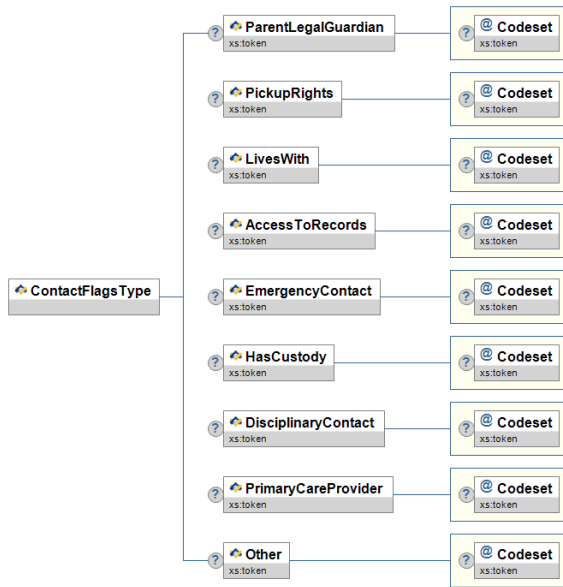


Figure A.75-1: ContactFlagsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ContactFlagsType	M		Contains Yes/No characteristics of the contact person's role. Provide a yes value for all that apply. At least one of the child elements of ContactFlags must have a yes value. Do not publish the StudentContact instance if one of the child elements does not have a yes value.	
ParentLegalGuardian	C		Does the individual have parental or legal guardianship responsibility for the student?	xs:boolean
@ Codaset	O		A unique indicator (usually a URL) that points to the codaset used.	xs:boolean
PickupRights	C		This element tells whether or not the contact has pickup rights.	xs:boolean
@ Codaset	O		A unique indicator (usually a URL) that points to the codaset used.	xs:boolean
LivesWith	C		Does the student live with this contact?	xs:boolean
@ Codaset	O		A unique indicator (usually a URL) that points to the codaset used.	xs:boolean
AccessToRecords	C		Does this contact have access to the student's records?	xs:boolean
@ Codaset	O		A unique indicator (usually a URL) that points to the codaset used.	xs:boolean
EmergencyContact	C		Should this contact be notified in case of emergency?	xs:boolean
@ Codaset	O		A unique indicator (usually a URL) that points to the codaset used.	xs:boolean
HasCustody	C		Does this contact have or share custody of the student?	xs:boolean
@ Codaset	O		A unique indicator (usually a URL) that points to the codaset used.	xs:boolean
DisciplinaryContact	C		Is this person to be contacted in case of disciplinary action?	xs:boolean
@ Codaset	O		A unique indicator (usually a URL) that points to the codaset used.	xs:boolean
PrimaryCareProvider	C		Does this person provide daily living or personal assistance to the student?	xs:boolean
@ Codaset	O		A unique indicator (usually a URL) that points to the codaset used.	xs:boolean
Other	C		This person has a relationship to student(s) that the school needs to document but no other contact flag value is 'Yes'. An example is a parent who enrolled the student but is deceased and is no longer a valid contact.	xs:boolean
@ Codaset	O		A unique indicator (usually a URL) that points to the codaset used.	xs:boolean

Table A.75-1: ContactFlagsType

A.76 ContactInfoType

Common element used to supply information for a contact person at a school, LEA, or other institution.

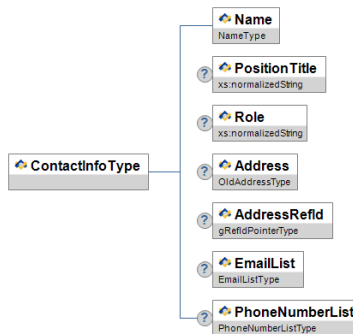


Figure A.76-1: ContactInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ContactInfoType			Common element used to supply information for a contact person at a school, LEA, or other institution.	
Name	M		The name of the contact person. Note that Name is redefined here to allow for LastName and FirstName to be omitted if they cannot be provided; when omitted, FullName must have a value.	NameType
PositionTitle	O		The contact person's position title. Examples Superintendent	xs:normalizedString
Role	O		Role played by this contact in this instance. Examples Support Contact Primary Contact Alternate Contact	xs:normalizedString
Address	O		Address of the contact.	UriAddressType
AddressRefId	O		Reference to an address.	gbl:idPointerType
EmailList	O		List of Email elements.	EmailListType
PhoneNumberList	O		List of PhoneNumber elements.	PhoneNumberListType

Table A.76-1: ContactInfoType

```

JSON XML
<ContactInfo>
  <Name Type="04">
    <LastNameOriginal/>LastName
    <FirstNameTheodore/>FirstName
    <FullNameTheodore Geisel/>FullName
  </Name>
  <PositionTitle>Superintendent/>PositionTitle
  <EmailList>
    <Email Type="Primary">drseuss@hvoiville.k12.state.us</Email>
  </EmailList>
  <PhoneNumberList>
    <PhoneNumber Type="098">
      <Number>(555) 555-0102</Number>
    </PhoneNumber>
  </PhoneNumberList>
</ContactInfo>
    
```

Example A.76-1: ContactInfoType

A.77 ContactRelationshipType

Typically used to provide the state information about a person's parents and legal guardians.



Figure A.77-1: ContactRelationshipType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ContactRelationshipType	O		Typically used to provide the state information about a person's parents and legal guardians.	List
Contact	OR		Typically used to provide the state information about a person's parents and legal guardians.	ContactRelationshipType

Table A.77-1: ContactRelationshipType

A.78 ContactRelationshipType

Typically used to provide the state information about a person's parents and legal guardians.

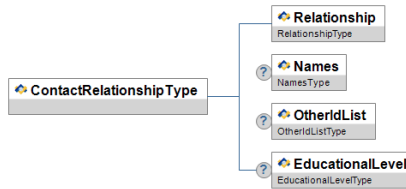


Figure A.78-1: ContactRelationshipType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ContactRelationshipType	OR		Typically used to provide the state information about a person's parents and legal guardians.	
Relationship	M		Relationship to the person.	RelationshipType
Names	O		The name(s) of the contact.	NamesType
OtherIdList	O		OtherIds associated with the contact .	OtherIdListType
EducationalLevel	O		The highest level of education completed by the contact person.	EducationalLevelType

Table A.78-1: ContactRelationshipType

A.79 ContentObjectType

The learning object.



Figure A.79-1: ContentObjectType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ContentObjectType			The learning object.	
SourceObject	O		GUID assigned to the source object.	IdRefType
@ SIF_RefObject	M		The name of the Source SIF object to which the GUID relates	values: Assessment LearningResource Activity Lesson
Location	O		Description of location of resource, i.e. location in library or URL, community resource, outside resource supplier.	LearningResourceLocationType

Table A.79-1: ContentObjectType

A.80 CopyrightType

Copyright for a document.

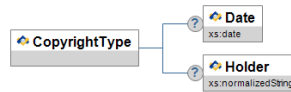


Figure A.80-1: CopyrightType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CopyrightType			Copyright for a document.	
Date	C		Copyright date	xs:date
Holder	C		Name of the copyright holder	xs:normalizedString

Table A.80-1: CopyrightType

A.81 CorrelationSectionListType

The list of SectionInfo objects being correlated.



Figure A.81-1: CorrelationSectionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CorrelationSectionListType	O		The list of SectionInfo objects being correlated.	List
CorrelationSection	MR		Reference to a SectionInfo object to be correlated.	CorrelationSectionType

Table A.81-1: CorrelationSectionListType

A.82 CorrelationSectionType

Reference to a SectionInfo object to be correlated.



Figure A.82-1: CorrelationSectionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CorrelationSectionType	MR		Reference to a SectionInfo object to be correlated.	IdRefType
@ Primary	M		Indicate whether a SectionInfo is primary. Only one SectionInfo in the CorrelationSectionList can be primary.	xs:token
@ PrimaryCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.82-1: CorrelationSectionType

A.83 CorrelationTypeType

The type of correlation.

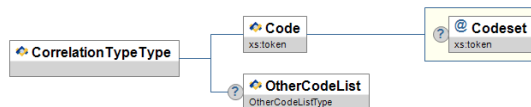


Figure A.83-1: CorrelationTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CorrelationTypeType	O		The type of correlation.	
Code	M		The code for the type of correlation.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			otherCodeListType

Table A.83-1: CorrelationTypeType

A.84 CountriesOfCitizenshipType



Figure A.84-1: CountriesOfCitizenshipType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CountriesOfCitizenshipType	O			List
CountryOfCitizenship	MR		A person's country of citizenship.	CountryType

Table A.84-1: CountriesOfCitizenshipType

A.85 CountriesOfResidencyType

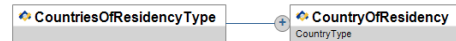


Figure A.85-1: CountriesOfResidencyType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CountriesOfResidencyType	O			List
CountryOfResidency	MR		A person's country of residence.	CountryType

Table A.85-1: CountriesOfResidencyType

A.86 CountryType

A country code.



Figure A.86-1: CountryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CountryType			A country code.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.86-1: CountryType

```

    JSON
    <CountryType?@?/Country?>
  
```

Example A.86-1: CountryType

A.87 CourseCodeType

School-defined local code for a course.

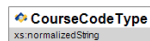


Figure A.87-1: CourseCodeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseCodeType			School-defined local code for a course.	xs:normalizedString

Table A.87-1: CourseCodeType

```

    JSON
    <CourseCode?@?/CourseCode?>
  
```

Example A.87-1: CourseCodeType

A.88 CourseCreditsType

The number of credits awarded upon course completion.



Figure A.88-1: CourseCreditsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseCreditsType			The number of credits awarded upon course completion.	xs:decimal
Type	M		The type of credit offered.	xs:token
TypeCodeSet	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.88-1: CourseCreditsType

JSON XML

```
<CourseCredits Type="0588">2</CourseCredits>
```

Example A.88-1: CourseCreditsType

A.89 CourseHistoryCourseListType

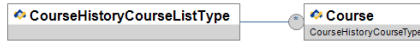


Figure A.89-1: CourseHistoryCourseListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseHistoryCourseListType				
Course	OR			CourseHistoryCourseType

Table A.89-1: CourseHistoryCourseListType

A.90 CourseHistoryCourseType

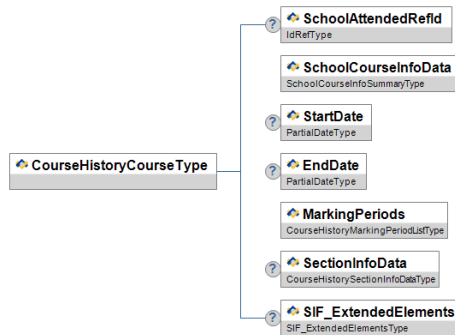


Figure A.90-1: CourseHistoryCourseType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseHistoryCourseType				
SchoolAttendedRefId	C		Reference to the school where the course was taken (see SchoolAttended); may be omitted if the school is the same as the school of record.	IdRefType
SchoolCourseInfoData	M		Collects elements of interest from SchoolCourseInfo.	SchoolCourseInfoSummaryType
StartDate	O		Date course section started.	PartialDateType
EndDate	O		Date course section ended.	PartialDateType
MarkingPeriods	M		Student performance/attendance data for each marking period.	CourseHistoryMarkingPeriodListType
SectionInfoData	O			CourseHistorySectionInfoDataType
SIF_ExtendedElements	O			SIF_ExtendedElementType

Table A.90-1: CourseHistoryCourseType

A.91 CourseHistoryMarkingPeriodListType

Student performance/attendance data for each marking period.



Figure A.91-1: CourseHistoryMarkingPeriodListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseHistoryMarkingPeriodListType			Student performance/attendance data for each marking period.	List
MarkingPeriod	MR		Student performance/attendance data for a marking period.	CourseHistoryMarkingPeriodType

Table A.91-1: CourseHistoryMarkingPeriodListType

A.92 CourseHistoryMarkingPeriodType

Student performance/attendance data for a marking period.

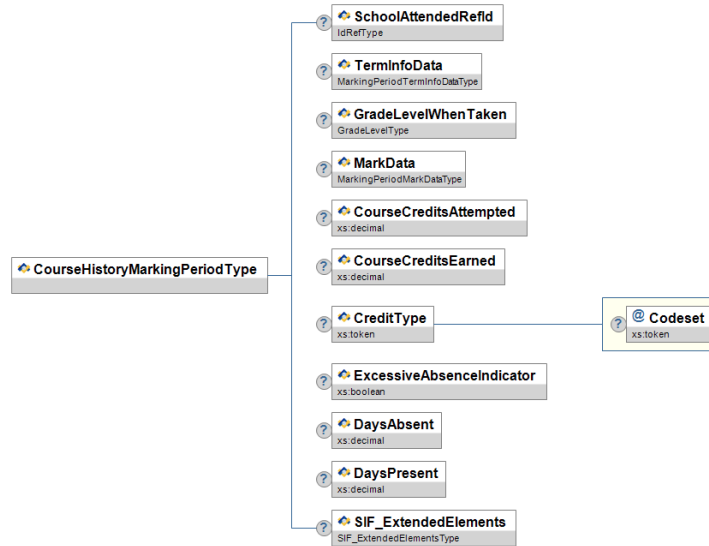


Figure A.92-1: CourseHistoryMarkingPeriodType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseHistoryMarkingPeriodType			Student performance/attendance data for a marking period.	
SchoolAttendedRefId	C		Reference to the school where student took the course during the marking period, if different from schools above.	IdRefType
TermInfoData	O		Information related to the span of time associated with the marking period.	MarkingPeriodTermInfoDataType
GradeLevelWhenTaken	O		Student's grade level at time of course.	GradeLevelType
MarkData	C		Note: Mandatory if mid-term mark exists. Mid-term mark.	MarkingPeriodMarkDataType
CourseCreditsAttempted	O	000199 https://ceds.ed.gov/element/000199	Number of course credits attempted.	xs:decimal
CourseCreditsEarned	O	000200 https://ceds.ed.gov/element/000200	Number of course credits earned.	xs:decimal
CreditType	O	000072 https://ceds.ed.gov/element/000072	Type of credit.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
ExcessiveAbsenceIndicator	O		Flag indicating that the student was excessively absent from the class.	xs:boolean
DaysAbsent	O	000201 https://ceds.ed.gov/element/000201	Number of days absent.	xs:decimal
DaysPresent	O	000600 https://ceds.ed.gov/element/000600	Number of days present.	xs:decimal
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.92-1: CourseHistoryMarkingPeriodType

A.93 CourseHistoryMediumOfInstructionType

Medium through which the student receives instructional communication from the teacher.

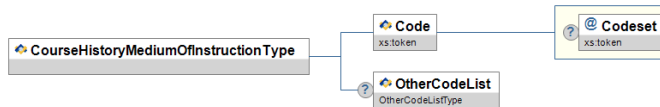


Figure A.93-1: CourseHistoryMediumOfInstructionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseHistoryMediumOfInstructionType			Medium through which the student receives instructional communication from the teacher.	
Code	M		Code representing the medium of instruction.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.93-1: CourseHistoryMediumOfInstructionType

A.94 CourseHistorySectionInfoDataType



Figure A.94-1: CourseHistorySectionInfoDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseHistorySectionInfoDataType				
MediumOfInstruction	O		Medium through which the student receives instructional communication from the teacher.	CourseHistoryMediumOfInstructionType

Table A.94-1: CourseHistorySectionInfoDataType

A.95 CourseHistoryTermListType

Conveys the coursework completed, performance and attendance information for a student's academic career.



Figure A.95-1: CourseHistoryTermListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseHistoryTermListType			Conveys the coursework completed, performance and attendance information for a student's academic career.	List
Term	OR		Time spans by which courses are grouped.	CourseHistoryTermType

Table A.95-1: CourseHistoryTermListType

A.96 CourseHistoryTermType

Time spans by which courses are grouped.

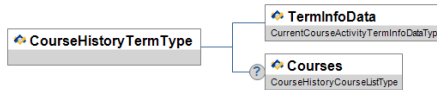


Figure A.96-1: CourseHistoryTermType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseHistoryTermType			Time spans by which courses are grouped.	
TermInfoData	M		Collects elements of interest from TermInfo.	CurrentCourseActivityTermInfoDataType
Courses	O			CourseHistoryCourseListType

Table A.96-1: CourseHistoryTermType

A.97 CourseTitleType

Title of a course.

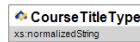


Figure A.97-1: CourseTitleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CourseTitleType			Title of a course.	xs:normalizedString

Table A.97-1: CourseTitleType

```

JSON
XML
<CourseTitle>Graphics Basics</CourseTitle>
    
```

Example A.97-1: CourseTitleType

A.98 CreatedType

When the object was created by whom. This is a more persistent creation date than the date/time in the object's sIF_header. Depending on the use case being implemented, this value could contain the date the data in the object first entered the zone or was actually created.

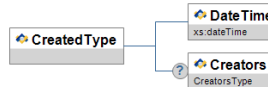


Figure A.98-1: CreatedType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CreatedType	O		When the object was created by whom. This is a more persistent creation date than the date/time in the object's sIF_header. Depending on the use case being implemented, this value could contain the date the data in the object first entered the zone or was actually created.	
DateTime	M			xs:dateTime
Creators	O			CreatorsType

Table A.98-1: CreatedType

A.99 CreatorsType

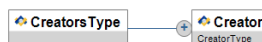


Figure A.99-1: CreatorsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CreatorsType	O			List
Creator	MR			CreatorType

Table A.99-1: CreatorsType

A.100 CreatorType

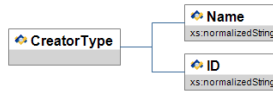


Figure A.100-1: CreatorType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CreatorType	O			
Name	M		Human-readable name of the data's creator. If the object contains system-generated data, the name should identify the creating service or application.	xs:normalizedString
ID	M		Unique identifier of the creator. An email address or URI could be used here.	xs:normalizedString

Table A.100-1: CreatorType

A.101 CreditsAttemptedType

Number of credits the student is attempting to earn. If present, this element's value overrides the credits in SchoolCourseInfo and SectionInfo.



Figure A.101-1: CreditsAttemptedType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CreditsAttemptedType	O		Number of credits the student is attempting to earn. If present, this element's value overrides the credits in SchoolCourseInfo and SectionInfo.	xs:decimal
Type	M	000650 https://ceds.ed.gov/element/000650	The type of credit.	xs:token
TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.101-1: CreditsAttemptedType

A.102 CurrentCourseActivityCourseListType

Courses being taken.

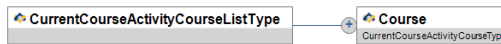


Figure A.102-1: CurrentCourseActivityCourseListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CurrentCourseActivityCourseListType			Courses being taken.	List
Course	MR		Course being taken.	CurrentCourseActivityCourseType

Table A.102-1: CurrentCourseActivityCourseListType

A.103 CurrentCourseActivityCourseType

Course being taken.

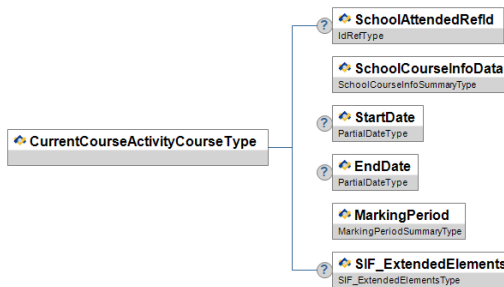


Figure A.103-1: CurrentCourseActivityCourseType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CurrentCourseActivityCourseType			Course being taken.	
SchoolAttendedRefId	C		Reference to the school where the course is being taken (see SchoolAttended); may be omitted if the school is the same as the school of record.	IdRefType
SchoolCourseInfoData	M		Collects elements of interest from SchoolCourseInfo.	SchoolCourseInfoSummaryType
StartDate	O		Date course section started.	PartialDateType
EndDate	O		Date course section ended, or will end.	PartialDateType
MarkingPeriod	M			MarkingPeriodSummaryType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.103-1: CurrentCourseActivityCourseType

A.104 CurrentCourseActivityTermInfoDataType

Collects elements of interest from TermInfo.

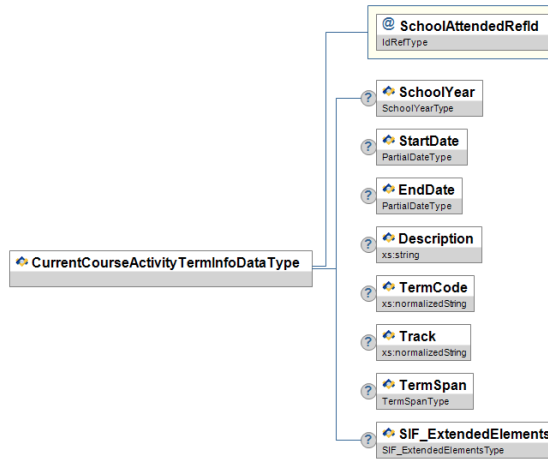


Figure A.104-1: CurrentCourseActivityTermInfoDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CurrentCourseActivityTermInfoDataType			Collects elements of interest from TermInfo.	
SchoolAttendedRefId	M		Reference to the school of record for the courses being taken (see SchoolAttended).	IdRefType
SchoolYear	O			SchoolYearType
StartDate	O	000251 https://ceds.ed.gov/element/000251		PartialDateType
EndDate	O			PartialDateType
Description	O			xs:string
TermCode	O	000182 https://ceds.ed.gov/element/000182		xs:normalizedString
Track	O			xs:normalizedString
TermSpan	O			TermSpanType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.104-1: CurrentCourseActivityTermInfoDataType

A.105 CurrentCourseActivityType

Note: Mandatory if coursework is underway. Conveys a student's current coursework along with mid-term marks if applicable.

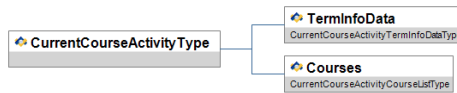


Figure A.105-1: CurrentCourseActivityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CurrentCourseActivityType			Note: Mandatory if coursework is underway. Conveys a student's current coursework along with mid-term marks if applicable.	
TermInfoData	M		Collects elements of interest from TermInfo.	CurrentCourseActivityTermInfoDataType
Courses	M		Courses being taken.	CurrentCourseActivityCourseListType

Table A.105-1: CurrentCourseActivityType

A.106 CurriculumHierarchyListType



Figure A.106-1: CurriculumHierarchyListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CurriculumHierarchyListType				List
CurriculumHierarchy	OR		Description of additional curriculum hierarchical level	CurriculumHierarchyType

Table A.106-1: CurriculumHierarchyListType

A.107 CurriculumHierarchyType

Description of additional curriculum hierarchical level

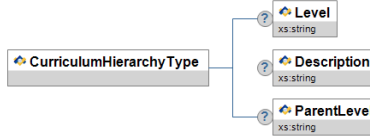


Figure A.107-1: CurriculumHierarchyType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CurriculumHierarchyType			Description of additional curriculum hierarchical level	
Level	O		Number reference of Curriculum Hierarchy	xs:string
Description	O		Description of Curriculum Hierarchy level	xs:string
ParentLevel	O		Parent Level	xs:string

Table A.107-1: CurriculumHierarchyType

A.108 CurriculumStructureCurriculumHierarchyLevelType

Describes the position of this object in the curriculum hierarchy.

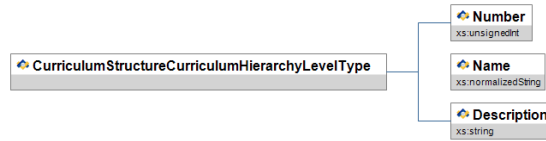


Figure A.108-1: CurriculumStructureCurriculumHierarchyLevelType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CurriculumStructureCurriculumHierarchyLevelType			Describes the position of this object in the curriculum hierarchy.	
Number	M		Integer assigned to each hierarchical level within the CurriculumStructure tree. The top level is 1.	xs:unsignedInt
Name	M		Used to describe what role this is serving in the structure. Some curriculum objects describe their levels in terms of programs of study, courses and units. Others use other terms. This attribute names the level of the item.	xs:normalizedString
Description	M		Used to describe what role this is serving in the structure. Some curriculum objects describe their levels in terms of programs of study, courses and units. Others use other terms.	xs:string

Table A.108-1: CurriculumStructureCurriculumHierarchyLevelType

A.109 CurriculumStructureRefIdListType

CurriculumStructure objects directly above this one in the hierarchy tree. These are repeatable because a single object can have multiple parent levels in the hierarchy.

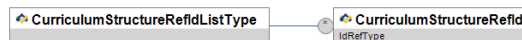


Figure A.109-1: CurriculumStructureRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CurriculumStructureRefIdListType			CurriculumStructure objects directly above this one in the hierarchy tree. These are repeatable because a single object can have multiple parent levels in the hierarchy.	List
CurriculumStructureRefId	OR		GUID assigned to the CurriculumStructure object directly above it in the hierarchy tree.	IdRefType

Table A.109-1: CurriculumStructureRefIdListType

A.110 CurriculumStructuresRefIdListType

GUID references to the parent CurriculumStructure object of a Lesson.

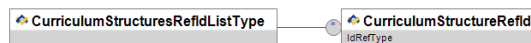


Figure A.110-1: CurriculumStructuresRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CurriculumStructuresRefIdListType			GUID references to the parent CurriculumStructure object of a Lesson.	List
CurriculumStructureRefId	OR		A GUID reference to the parent CurriculumStructure object of a Lesson.	IdRefType

Table A.110-1: CurriculumStructuresRefIdListType

A.111 CutScoresType

Score bounds for the performance level.

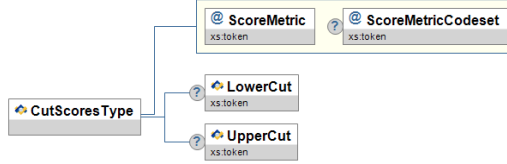


Figure A.111-1: CutScoresType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
CutScoresType			Score bounds for the performance level.	
@ ScoreMetric	M	000417 https://ceds.ed.gov/element/000417	The metric or scale used to report the scores.	xs:token
@ ScoreMetricCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
LowerCut	O		Lower bound for the performance level.	xs:token
UpperCut	O		Upper bound for the performance level.	xs:token

Table A.111-1: CutScoresType

A.112 DebitCreditMonetaryAmountListType

List of monetary amounts, with debit and credit types.



Figure A.112-1: DebitCreditMonetaryAmountListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DebitCreditMonetaryAmountListType			List of monetary amounts, with debit and credit types.	List
Amount	MR		Amount	DebitCreditMonetaryAmountType

Table A.112-1: DebitCreditMonetaryAmountListType

A.113 DebitCreditMonetaryAmountType

Monetary amount, with debit and credit types.

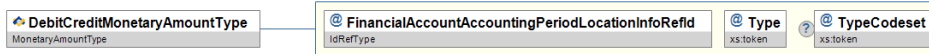


Figure A.113-1: DebitCreditMonetaryAmountType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DebitCreditMonetaryAmountType			Monetary amount, with debit and credit types.	MonetaryAmountType
@ FinancialAccountAccountingPeriodLocationInfoRefId	M		Account.	IdRefType
@ Type	M			xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.113-1: DebitCreditMonetaryAmountType

A.114 DefinedProtocolsType

The transport protocols defined in SIF.



Figure A.114-1: DefinedProtocolsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DefinedProtocolsType			The transport protocols defined in SIF.	values: HTTP HTTPS

Table A.114-1: DefinedProtocolsType

A.115 DemographicsType

Demographics information about the student, contact, staff member, etc. This element occurs within objects such as StudentPersonal, StudentContact, etc.

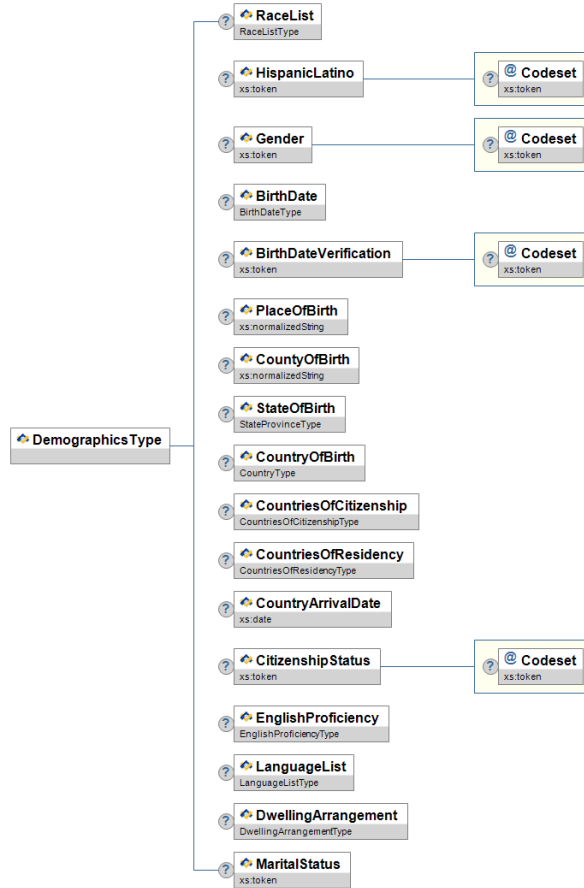


Figure A.115.1: DemographicsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DemographicsType			Demographics information about the student, contact, staff member, etc. This element occurs within objects such as StudentPersonal, StudentContact, etc.	
RaceList	O			RaceListType
HispanicLatino	O	000144 https://ceds.ed.gov/element/000144		xs:token
Ⓜ Codset	O		A unique indicator (usually a URL) that points to the codset used.	xs:token
Gender	O	000255 https://ceds.ed.gov/element/000255	Person's gender.	xs:token
Ⓜ Codset	O		A unique indicator (usually a URL) that points to the codset used.	xs:token
BirthDate	O	000033 https://ceds.ed.gov/element/000033	The person's date of birth.	BirthDateType
BirthDateVerification	O	000618 https://ceds.ed.gov/element/000618	Means by which the person's birth date was validated.	xs:token
Ⓜ Codset	O		A unique indicator (usually a URL) that points to the codset used.	xs:token
PlaceOfBirth	O		The person's place of birth—like village, town, city, etc.	xs:normalizedString
CountyOfBirth	O	000051 https://ceds.ed.gov/element/000051	The county in which the person was born.	xs:normalizedString
StateOfBirth	O	000427 https://ceds.ed.gov/element/000427	The person's state of birth.	StateProvinceType
CountryOfBirth	O		The person's country of birth.	CountryType
CountriesOfCitizenship	O			CountriesOfCitizenshipType
CountriesOfResidency	O			CountriesOfResidencyType
CountryArrivalDate	O	000529 https://ceds.ed.gov/element/000529	Date the person first arrived in the country.	xs:date
CitizenshipStatus	O		The person's citizenship status.	xs:token
Ⓜ Codset	O		A unique indicator (usually a URL) that points to the codset used.	xs:token
EnglishProficiency	O		Person's proficiency in English.	EnglishProficiencyType
LanguageList	O		List of languages an individual uses to communicate.	LanguageListType
DwellingArrangement	O		Setting/environment in which the person resides.	DwellingArrangementType
MaritalStatus	O		The person's marital status.	xs:token

Table A.115.1: DemographicsType

JSON XML

```

<Demographics>
  <RaceList>
    <Race>
      <Code>1002</Code>
    </Race>
  </RaceList>
  <Gender>M</Gender>
  <BirthDate>1990-09-26</BirthDate>
  <BirthDateVerification>1004</BirthDateVerification>
  <PlaceOfBirthMiami</PlaceOfBirth>
  <CountyOfBirthDade</CountyOfBirth>
  <StateOfBirthFL</StateOfBirth>
  <CountryOfBirthUS</CountryOfBirth>
  <CountriesOfCitizenship>
    <CountryOfCitizenshipUS</CountryOfCitizenship>
  </CountriesOfCitizenship>
  <CountriesOfResidency>
    <CountryOfResidencyUS</CountryOfResidency>
  </CountriesOfResidency>
  <CitizenshipStatus>1171</CitizenshipStatus>
  <EnglishProficiency>
    <Code>1131</Code>
  </EnglishProficiency>
  <LanguageList>
    <Language>
      <Code>ENG</Code>
    </Language>
  </LanguageList>
  <DwellingArrangement>
    <Code>1674</Code>
  </DwellingArrangement>
  <MaritalStatus>1042</MaritalStatus>
</Demographics>
    
```

Example A.115.1: Demographics - Example 1

JSON XML

```

<Demographics>
  <RaceList>
    <Race>
      <Code>1002</Code>
    </Race>
  </RaceList>
  <Gender>M</Gender>
  <BirthDate>1990-09-26</BirthDate>
  <BirthDateVerification>1004</BirthDateVerification>
  <PlaceOfBirthMiami</PlaceOfBirth>
  <CountyOfBirthDade</CountyOfBirth>
  <StateOfBirthFL</StateOfBirth>
  <CountryOfBirthUS</CountryOfBirth>
  <CountriesOfCitizenship>
    <CountryOfCitizenshipUS</CountryOfCitizenship>
  </CountriesOfCitizenship>
  <CountriesOfResidency>
    <CountryOfResidencyUS</CountryOfResidency>
  </CountriesOfResidency>
  <CitizenshipStatus>1171</CitizenshipStatus>
  <EnglishProficiency>
    <Code>1131</Code>
  </EnglishProficiency>
  <LanguageList>
    <Language>
      <Code>ENG</Code>
    </Language>
  </LanguageList>
  <DwellingArrangement>
    <Code>1674</Code>
  </DwellingArrangement>
  <MaritalStatus>1042</MaritalStatus>
</Demographics>
    
```

Example A.115.2: Demographics - Example 2

A.116 DestinationPointType

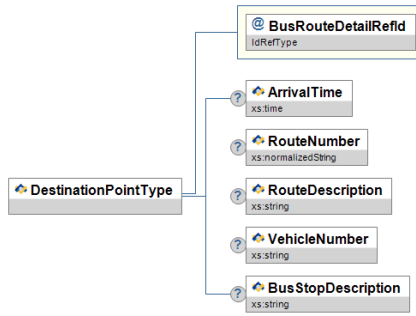


Figure A.116-1: DestinationPointType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DestinationPointType				
BusRouteDetailRefId	M		GUID that identifies the bus stop/route where the student gets off the bus.	IdRefType
ArrivalTime	O		The time that the bus associated with this route will stop at this bus stop.	xs:time
RouteNumber	O		A unique identifier for the route. For instance, you may have route 16AM in the morning and a 16PM in the afternoon.	xs:normalizedString
RouteDescription	O		Short explanation of the route. It may be used to designate an area, or used to color-code bus routes (the "orange" route).	xs:string
VehicleNumber	O		Vehicle number of the bus.	xs:string
BusStopDescription	O		An explanation of this location.	xs:string

Table A.116-1: DestinationPointType

A.117 DisciplineActionListType

List of actions taken.

Note: There is also a SIF type called ActionList. It is one of two types of lists. Do not confuse this element with the SIF type called ActionList. This problem will be resolved in the next major release.

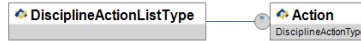


Figure A.117-1: DisciplineActionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DisciplineActionListType	O		List of actions taken. Note: There is also a SIF type called ActionList. It is one of two types of lists. Do not confuse this element with the SIF type called ActionList. This problem will be resolved in the next major release.	List
Action	OR		Information regarding the action(s) taken against the offender in response to the incident.	DisciplineActionType

Table A.117-1: DisciplineActionListType

A.118 DisciplineActionType

Information regarding the action(s) taken against the offender in response to the incident.

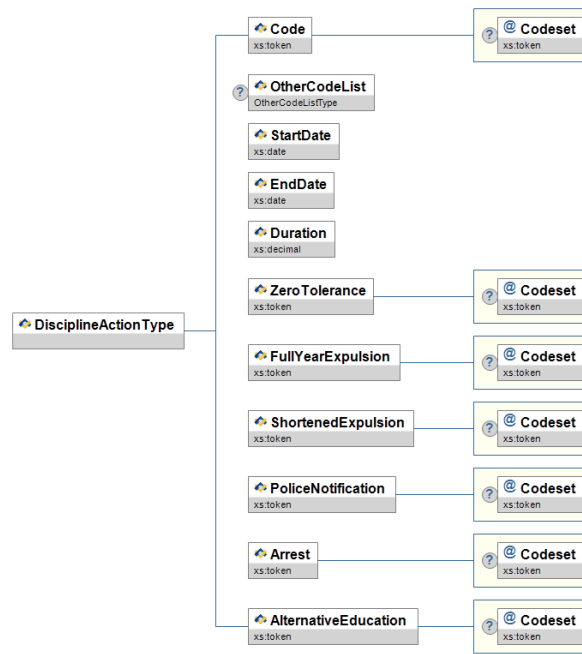


Figure A.118-1: DisciplineActionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DisciplineActionType	OR		Information regarding the action(s) taken against the offender in response to the incident.	
Code	M	000488 https://ceds.ed.gov/element/000488	Specific action taken toward this offender.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O		List of other codes or strings that crosswalk to or serve as translations of the Code element. If Code changes and OtherCode elements are supported, both Code and all associated OtherCode elements must be present.	OtherCodeListType
StartDate	M	000083 https://ceds.ed.gov/element/000083	The date on which the disciplinary action begins.	xs:date
EndDate	M	000082 https://ceds.ed.gov/element/000082	The date through which the disciplinary action is in effect, inclusive.	xs:date
Duration	M	000511 https://ceds.ed.gov/element/000511	Identifies the length, in school days, of the disciplinary action. Note: decimal places may be used for fractions of school days.	xs:decimal
ZeroTolerance	M		Identifies whether or not this action taken against a student was imposed as a consequence of state or local zero tolerance policies.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
FullYearExpulsion	M	000513 https://ceds.ed.gov/element/000513	Identifies whether or not the action involved an expulsion with or without services for a period of one full year (i.e., 365 days).	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
ShortenedExpulsion	M	000514 https://ceds.ed.gov/element/000514	Identifies whether or not the action involved an expulsion with or without services that is shortened to a term of less than one year by the superintendent or chief administrator of a school district.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
PoliceNotification	M		Identifies whether or not the offender's action included notification of local law enforcement, regardless of whether official action was taken.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Arrest	M		Identifies whether or not the offender was arrested.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
AlternativeEducation	M	000578 https://ceds.ed.gov/element/000578	Identifies whether or not the offender was assigned to an Alternative Education facility.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.118-1: DisciplineActionType

A.119 DistanceType

Measurement of distance.



Figure A.119-1: DistanceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DistanceType			Measurement of distance.	xs:decimal
@Unit	M		Units used in the distance measurement.	xs:token
@UnitCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.119-1: DistanceType

A.120 DistrictCourseCodeType

A district course code.

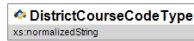


Figure A.120-1: DistrictCourseCodeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DistrictCourseCodeType			A district course code.	xs:normalizedString

Table A.120-1: DistrictCourseCodeType

JSON XML

```
<DistrictCourseCode>CE101</DistrictCourseCode>
```

Example A.120-1: DistrictCourseCodeType

A.121 DocumentSourceType

This element defines a document. If the Type attribute is URL, this is the location of the document that describes the assignment. If Type is PDF, this element will contain the Base64 encoding of the entire document.



Figure A.121-1: DocumentSourceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DocumentSourceType			This element defines a document. If the Type attribute is URL, this is the location of the document that describes the assignment. If Type is PDF, this element will contain the Base64 encoding of the entire document.	URIOrBinaryType
@Type	M		The way the document is specified.	xs:token
@TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.121-1: DocumentSourceType

A.122 DurationType

A duration.

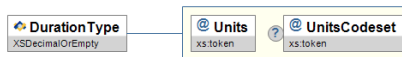


Figure A.122-1: DurationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DurationType	O		A duration.	xs:decimal
@Units	M		Unit of time of the Duration value.	xs:token
@UnitsCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.122-1: DurationType

A.123 DwellingArrangementType

Setting/environment in which the person resides.

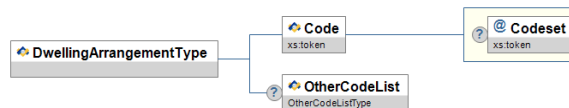


Figure A.123-1: DwellingArrangementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
DwellingArrangementType			Setting/environment in which the person resides.	
Code	M		Code representing the setting/environment in which the person resides.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			otherCodeListType

Table A.123-1: DwellingArrangementType

A.124 EarnedStatusType

This gives information about a staff member's meal status.

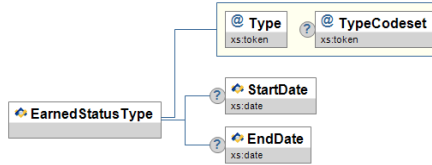


Figure A.124-1: EarnedStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EarnedStatusType			This gives information about a staff member's meal status.	
@ Type	M		Earned status type. In SIF objects where the EarnedStatus is required and does not apply, NA should be used.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
StartDate	O		Date on which earned status became effective (inclusive).	xs:date
EndDate	C		Date on which earned status was last in effect. This attribute is conditional upon the StartDate element. It exists only if the StartDate element exists.	xs:date

Table A.124-1: EarnedStatusType

JSON XML

```

<EarnedStatus Type="yes">
  <StartDate>2004-01-01</StartDate>
  <EndDate>2004-12-31</EndDate>
</EarnedStatus>
    
```

Example A.124-1: EarnedStatusType

A.125 EconomicDisadvantageType

Does the student meet the State criteria for classification as having an economic disadvantage?



Figure A.125-1: EconomicDisadvantageType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EconomicDisadvantageType			Does the student meet the State criteria for classification as having an economic disadvantage?	values: yes no unknown

Table A.125-1: EconomicDisadvantageType

JSON XML

```

<EconomicDisadvantage?></EconomicDisadvantage>
    
```

Example A.125-1: EconomicDisadvantageType

A.126 EDENInfoType

Container element for EDEN-specific information.

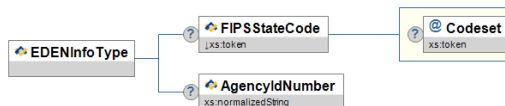


Figure A.126-1: EDENInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EDENInfoType	O		Container element for EDEN-specific information.	
FIPSStateCode	O	000052 https://ceds.ed.gov/element/000052	The two-digit Federal Information Processing Standard (FIPS) Code for the State, District of Columbia, and the possessions and freely associated areas of the United States (e.g. Puerto Rico).	xs:token pattern: [(0-9)(2)]1[A-B](2)
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
AgencyIdNumber	O		A number used in EDEN to uniquely identify state agencies.	xs:normalizedString

Table A.126-1: EDENInfoType

A.127 EducationAgencyTypeType

The classification of the education agency within the geographic boundaries of a state according to the level of administrative and operational control.

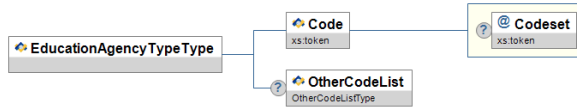


Figure A.127-1: EducationAgencyTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EducationAgencyTypeType	O		The classification of the education agency within the geographic boundaries of a state according to the level of administrative and operational control.	
Code	M	000537 https://ceds.ed.gov/element/000537	Code indicating the operational/administrative level.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.127-1: EducationAgencyTypeType

A.128 EducationalLevelType

A code representing the highest level of education completed by a person.



Figure A.128-1: EducationalLevelType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EducationalLevelType			A code representing the highest level of education completed by a person.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.128-1: EducationalLevelType

```

    JSON [ ] XML [ ]
    <EducationalLevel>1057</EducationalLevel>
    
```

Example A.128-1: EducationalLevelType

A.129 EducationFilterType

Based on feedback from publishers, instructional management and system integrator vendors, EducationFilter was developed to provide the ability to tag objects with metadata that allows for categorization, sorting, and filtering, to empower teaching and learning SIF usage. There exist two main business cases:

- Content providers receiving a request for learning resources can tag content with applicable filters. Upon receipt of SIF objects, receiving application can then read the metadata to categorize the content most appropriately.
- When supported by providers, this metadata can then be utilized in queries to more precisely limit the type of content returned to requesting applications.

The use cases for EducationFilter require a contract and choreography to be understood between both sides of the transaction as is the case with all SIF_Metadata.

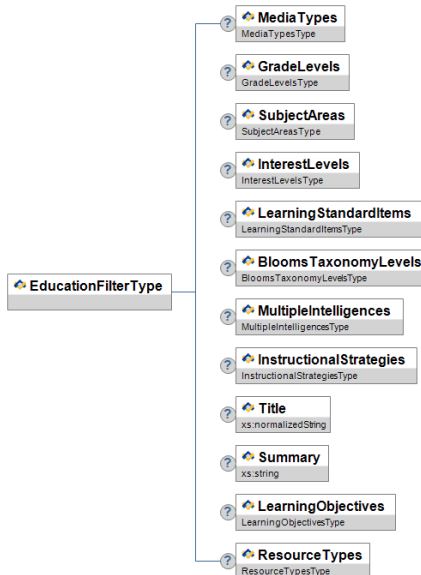


Figure A.129-1: EducationFilterType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EducationFilterType				
MediaTypes	O		Allows an object or query to be tagged with MIME types.	MediaTypesType
GradeLevels	O		Applicable grade levels as defined by SIF.	GradeLevelsType
SubjectAreas	O		This allows subject areas to be associated with an object or query. Although there could be overlap with LearningStandardItems, it is anticipated there will be use cases where LearningStandardItem objects may not exist or may not be available, and data may need to be tagged with high-level subject areas.	SubjectAreasType
InterestLevels	O		InterestLevels is designed to represent the grade level for which the content is created. For example a tenth grader is at a third grade level in Algebra. You would want to present the content at a third grade level, but in a tenth grade context or interest level.	InterestLevelsType
LearningStandardItems	O		Allows any SIF object to be correlated to learning standards.	LearningStandardItemsType
BloomsTaxonomyLevels	O		This is a taxonomy of educational objectives based on three "domains": Affective, Psychomotor, and Cognitive. For the purposes of assigning attributes to learning resources, the SIF specification is limited to the cognitive domain, including knowledge, comprehension, application, analysis, synthesis and evaluation.	BloomsTaxonomyLevelsType
MultipleIntelligences	O		An educational theory that describes at least eight different kinds of "intelligences." These include linguistic, logical-mathematical, spatial, bodily-kinesthetic, musical intelligence, interpersonal, intrapersonal and naturalist.	MultipleIntelligencesType
InstructionalStrategies	O		The various ways that instruction is delivered to achieve learning objectives and concepts.	InstructionalStrategiesType
Title	O		The title of the content.	xs:normalizedString
Summary	O		A summary of the content.	xs:string
LearningObjectives	O		Description of learning objective(s) for this lesson, i.e., "Student will be able to use Pythagorean Theorem." — equates to 'benchmark' or 'goal' or other terminology	LearningObjectivesType
ResourceTypes	O		Type of resource	ResourceTypesType

Table A.129-1: EducationFilterType

```

JSON XML
<EducationFilter>
  <MediaTypes>
    <MediaTypes><application/pdf</MediaTypes>
  </MediaTypes>
  <GradeLevels>
    <GradeLevel>
      <Code>10</Code>
    </GradeLevel>
  </GradeLevels>
  <SubjectAreas>
    <SubjectArea>
      <Code>02</Code>
    </SubjectArea>
    <OtherCode CodeSet="Text">Algebra and Geometry</OtherCode>
  </SubjectAreas>
  <InterestLevels>
    <Code>03</Code>
  </InterestLevels>
  <LearningStandardItems>
    <LearningStandardItemRefId>502070339PA34785B123BEF68D18332</LearningStandardItemRefId>
  </LearningStandardItems>
  <BloomsTaxonomyLevels>
    <BloomsTaxonomyLevel>Analysis</BloomsTaxonomyLevel>
  </BloomsTaxonomyLevels>
  <MultipleIntelligences>
    <MultipleIntelligence>Logical-Mathematical</MultipleIntelligence>
  </MultipleIntelligences>
  <InstructionalStrategies>
    <InstructionalStrategy>Self-study</InstructionalStrategy>
  </InstructionalStrategies>
</EducationFilter>
    
```

Example A.129-1: EducationFilter - Example 1

```

JSON XML
<EducationFilter>
  <MediaTypes>
    <MediaTypes><application/pdf</MediaTypes>
  </MediaTypes>
  <GradeLevels>
    <GradeLevel>
      <Code>10</Code>
    </GradeLevel>
  </GradeLevels>
  <SubjectAreas>
    <SubjectArea>
      <Code>02</Code>
    </SubjectArea>
    <OtherCode CodeSet="Text">Algebra and Geometry</OtherCode>
  </SubjectAreas>
  <InterestLevels>
    <Code>03</Code>
  </InterestLevels>
  <LearningStandardItems>
    <LearningStandardItemRefId>502070339PA34785B123BEF68D18332</LearningStandardItemRefId>
  </LearningStandardItems>
  <BloomsTaxonomyLevels>
    <BloomsTaxonomyLevel>Application</BloomsTaxonomyLevel>
  </BloomsTaxonomyLevels>
  <MultipleIntelligences>
    <MultipleIntelligence>Logical-Mathematical</MultipleIntelligence>
  </MultipleIntelligences>
  <InstructionalStrategies>
    <InstructionalStrategy>Self-study</InstructionalStrategy>
  </InstructionalStrategies>
  <Title>Geometry in Our World</Title>
  <Summary>This content provides initial definitions and instruction for line symmetry and various shapes. The students will initially learn the concepts and
  </Summary>
  <LearningObjectives>
    <LearningObjective>The student will be able to identify and draw figures with symmetry. </LearningObjective>
  </LearningObjectives>
  <ResourceTypes>
    <ResourceType>Supplemental Resource</ResourceType>
  </ResourceTypes>
</EducationFilter>
    
```

A.130 effectivePeriodType

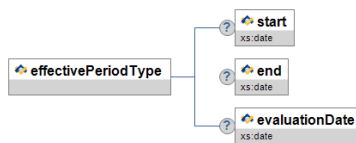


Figure A.130-1: effectivePeriodType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
effectivePeriodType				
start	O	001236 https://ceds.ed.gov/element/1236	The year, month and day on which the status of the service plan for a child is established or significantly altered.	xs:date
end	O	001683 https://ceds.ed.gov/element/001683	The year, month and day on which the status of the service plan for a child effectively ends.	xs:date
evaluationDate	O		Evaluation Date	xs:date

Table A.130-1: effectivePeriodType

A.131 ElectronicListType

A list of electronic identifiers associated with an entity.



Figure A.131-1: ElectronicListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ElectronicListType			A list of electronic identifiers associated with an entity.	List
ElectronicId	MR			ElectronicIdType

Table A.131-1: ElectronicListType

```

JSON
XML
<ElectronicListType>
  <ElectronicId Type="Barcode">206654</ElectronicId>
  <ElectronicId Type="FIM">9923</ElectronicId>
</ElectronicListType>
  
```

Example A.131-1: ElectronicListType

A.132 ElectronicIdType

Common element used to specify entity identifiers that are read by electronic equipment. It is used in objects such as StudentPersonal, StaffPersonal, and LibraryPatronStatus.

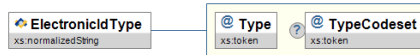


Figure A.132-1: ElectronicIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ElectronicIdType			Common element used to specify entity identifiers that are read by electronic equipment. It is used in objects such as StudentPersonal, StaffPersonal, and LibraryPatronStatus.	xs:normalizedString
@ Type	M		Electronic Id type.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.132-1: ElectronicIdType

```

JSON
XML
<ElectronicId Type="Barcode">206654</ElectronicId>
  
```

Example A.132-1: ElectronicIdType

A.133 ELLType

Is the student an English Language Learner under Title 3?



Figure A.133-1: ELLType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ELLType			Is the student an English Language Learner under Title 3?	values: Yes No Unknown

Table A.133-1: ELLType

```

JSON
XML
<ELL>No</ELL>
  
```

Example A.133-1: ELLType

A.134 EmailListType

A list of e-mail addresses associated with an individual.



Figure A.134-1: EmailListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmailListType			A list of e-mail addresses associated with an individual.	ActionList (Email/#Type)
Email	MR	000088 https://ceds.ed.gov/element/000088		EmailType
@ SIF_Action	O		In a change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum the key for the list must also be present.	values: Delete

Table A.134-1: EmailListType

```

JSON
XML

<EmailList>
  <Email Type="Primary">contact@sifinfo.org</Email>
  <Email Type="Alternate">info@sifinfo.org</Email>
</EmailList>
    
```

Example A.134-1: EmailListType

A.135 EmailType

This element represents an e-mail address of one of a number of types and occurs in objects such as StudentPersonal, StaffPersonal, StudentContact, etc.



Figure A.135-1: EmailType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmailType			This element represents an e-mail address of one of a number of types and occurs in objects such as StudentPersonal, StaffPersonal, StudentContact, etc.	xs:normalizedString
@ Type	M	000089 https://ceds.ed.gov/element/000089	This attribute specifies the type of e-mail address.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.135-1: EmailType

```

JSON
XML

<Email Type="Primary">contact@sifinfo.org</Email>
    
```

Example A.135-1: EmailType

A.136 EmployeeAssignmentProgramType

The type of instructional or non-instructional program.

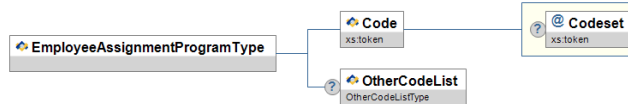


Figure A.136-1: EmployeeAssignmentProgramType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmployeeAssignmentProgramType			The type of instructional or non-instructional program.	
Code	M	000225 https://ceds.ed.gov/element/000225	The type of instructional or non-instructional program.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.136-1: EmployeeAssignmentProgramType

A.137 EmployeeCertificationListType

Employee certifications

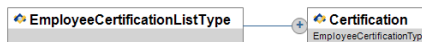


Figure A.137-1: EmployeeCertificationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmployeeCertificationListType			Employee certifications	List
Certification	MR		Employee certification area information	EmployeeCertificationType

Table A.137-1: EmployeeCertificationListType

A.138 EmployeeCertificationType

Employee certification area information

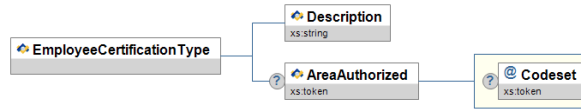


Figure A.138-1: EmployeeCertificationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmployeeCertificationType			Employee certification area information	
Description	M		Certification description as defined by state	xs:string
AreaAuthorized	O		Area in which employee has certification	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.138-1: EmployeeCertificationType

A.139 EmployeeCredentialAssignmentListType

List of employee assignments to schools

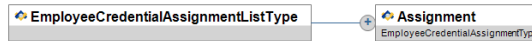


Figure A.139-1: EmployeeCredentialAssignmentListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmployeeCredentialAssignmentListType			List of employee assignments to schools	List
Assignment	MR		Information about the school and assignment of employee	EmployeeCredentialAssignmentType

Table A.139-1: EmployeeCredentialAssignmentListType

A.140 EmployeeCredentialAssignmentType

Information about the school and assignment of employee

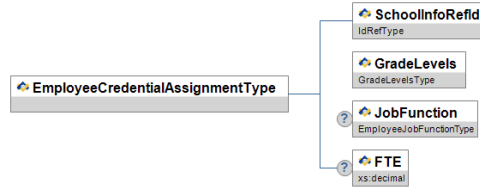


Figure A.140-1: EmployeeCredentialAssignmentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmployeeCredentialAssignmentType			Information about the school and assignment of employee	
SchoolInfoRefId	M		References SchoolInfo object to determine school in which this assignment pertains.	IdRefType
GradeLevels	M		Grade which is assigned to this employee (e.g. 12)	GradeLevelsType
JobFunction	O		The purpose of the activity in school as related to students	EmployeeJobFunctionType
FTE	O		Full-time equivalent for this school	xs:decimal

Table A.140-1: EmployeeCredentialAssignmentType

A.141 EmployeeCreditEarnedType

The number of units earned

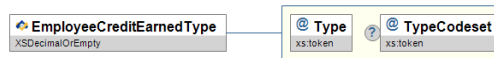


Figure A.141-1: EmployeeCreditEarnedType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmployeeCreditEarnedType	M		The number of units earned	xs:decimal
@ Type	M		The unit description	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.141-1: EmployeeCreditEarnedType

A.142 EmployeeJobFunctionType

The purpose of the activity in school as related to students

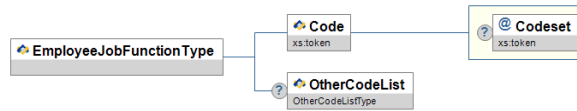


Figure A.142-1: EmployeeJobFunctionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmployeeJobFunctionType			The purpose of the activity in school as related to students	
Code	M	000220 https://ceds.ed.gov/element/000220	Code representing the type of job function.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.142-1: EmployeeJobFunctionType

A.143 EmployeePersonalOtherIdListType

List all "other" Ids associated with the employee.

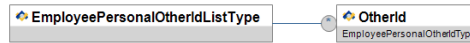


Figure A.143-1: EmployeePersonalOtherIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmployeePersonalOtherIdListType			List all "other" Ids associated with the employee.	OtherIdListType
OtherId	OR		This field can hold a SSN, state or locally assigned Id.	EmployeePersonalOtherIdType

Table A.143-1: EmployeePersonalOtherIdListType

A.144 EmployeePersonalOtherIdType

This field can hold a SSN, state or locally assigned Id.



Figure A.144-1: EmployeePersonalOtherIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EmployeePersonalOtherIdType	OR		This field can hold a SSN, state or locally assigned Id.	xs:normalizedString
@ Type	M			xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.144-1: EmployeePersonalOtherIdType

A.145 EnergyUsageDataReadingListType

Collection of reported data readings, in time order.

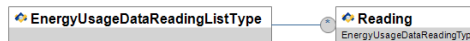


Figure A.145-1: EnergyUsageDataReadingListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyUsageDataReadingListType			Collection of reported data readings, in time order.	
Reading	OR		Values for the energy readings for each interval.	EnergyUsageDataReadingType

Table A.145-1: EnergyUsageDataReadingListType

A.146 EnergyUsageDataReadingType

Values for the energy readings for each interval.

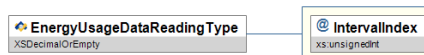


Figure A.146-1: EnergyUsageDataReadingType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyUsageDataReadingType			Values for the energy readings for each interval.	xs:decimal
@ IntervalIndex	M		Interval number when reading was taken.	xs:unsignedInt

Table A.146-1: EnergyUsageDataReadingType

A.147 EnergyUsageDataSourceReadingDataListType

List of ReadingData.

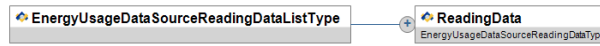


Figure A.147-1: EnergyUsageDataSourceReadingDataListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyUsageDataSourceReadingDataListType	M		List of ReadingData.	List
ReadingData	MR		Complex element defining a set of parameters that apply to all the actual readings that follow.	EnergyUsageDataSourceReadingDataType

Table A.147-1: EnergyUsageDataSourceReadingDataListType

A.148 EnergyUsageDataSourceReadingDataType

Complex element defining a set of parameters that apply to all the actual readings that follow.

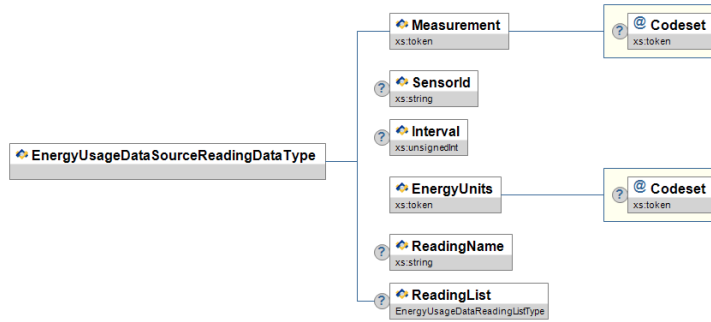


Figure A.148-1: EnergyUsageDataSourceReadingDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyUsageDataSourceReadingDataType			Complex element defining a set of parameters that apply to all the actual readings that follow.	
Measurement	M		Measurement type.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
SensorId	O		Identification of internal meter or data source.	xs:string
Interval	O		Time in seconds between Measurements.	xs:unsignedInt
EnergyUnits	M		One of enumerated list of unit types for energy readings (temperature, electrical energy usage, gas usage and the price for both).	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
ReadingName	O		Description of collection of readings.	xs:string
ReadingList	O		Collection of reported data readings, in time order.	EnergyUsageDataSourceReadingListType

Table A.148-1: EnergyUsageDataSourceReadingDataType

A.149 EnergyUsageDataSourceType

The description of the source of the measurements.

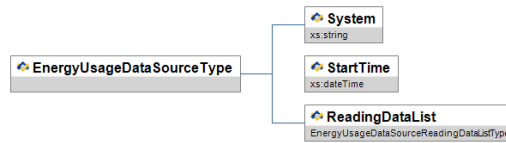


Figure A.149-1: EnergyUsageDataSourceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyUsageDataSourceType			The description of the source of the measurements.	EnergyUsageDataSourceType
System	M		Identifier of the reporting system.	xs:string
StartTime	M		Start time of measurements that follow.	xs:dateTime
ReadingDataList	M		List of ReadingData.	EnergyUsageDataSourceReadingDataListType

Table A.149-1: EnergyUsageDataSourceType

A.150 EnergyUsageLocationInfoType

Complex element containing the location of where measurements apply to.

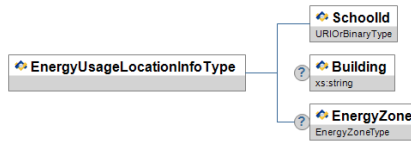


Figure A.150-1: EnergyUsageLocationInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyUsageLocationInfoType			Complex element containing the location of where measurements apply to.	
Schoold	M		urn:sif:school:xxx.yyy.zzz where xxx.yyy.zzz is a structure that reading left to right starts with the most specific identification (school location) and works rightward to identify the higher levels. e.g., urn:sif:school:AcmeMiddleSchool1.CoyoteDistrict.Arizona.	URIOrBinaryType
Building	O		Name of the School Building.	xs:string
EnergyZone	O		Complex element refining and narrowing the location of the contained readings within the School/Building.	EnergyZoneType

Table A.150-1: EnergyUsageLocationInfoType

A.151 EnergyZoneTagListType

List of energy zone identifiers (each consisting of a Name and Value).

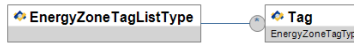


Figure A.151-1: EnergyZoneTagListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyZoneTagListType	O		List of energy zone identifiers (each consisting of a Name and Value).	List
Tag	OR		An energy zone identifier. Could include "SensorGroup", or individual SensorId", or anything else.	EnergyZoneTagType

Table A.151-1: EnergyZoneTagListType

A.152 EnergyZoneTagType

An energy zone identifier. Could include "SensorGroup", or individual SensorId", or anything else.



Figure A.152-1: EnergyZoneTagType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyZoneTagType			An energy zone identifier. Could include "SensorGroup", or individual SensorId", or anything else.	
Name	M		Name of the Tag.	xs:string
Value	O		Value of the Tag.	xs:string

Table A.152-1: EnergyZoneTagType

A.153 EnergyZoneType

Complex element refining and narrowing the location of the contained readings within the School/Building.

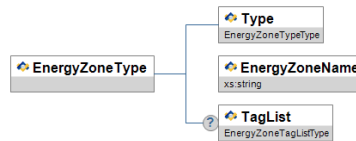


Figure A.153-1: EnergyZoneType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyZoneType			Complex element refining and narrowing the location of the contained readings within the School/Building.	
Type	M		Complex type of the facility or location supported by the Energy Zone.	EnergyZoneTypeType
EnergyZoneName	M		Text description of Energy Zone Area to which readings will apply. Examples Room 101 Oven 3 Bushman Auditorium	xs:string
TagList	O		List of energy zone identifiers (each consisting of a Name and Value).	EnergyZoneTagListType

Table A.153-1: EnergyZoneType

A.154 EnergyZoneTypeType

Complex type of the facility or location supported by the Energy Zone.

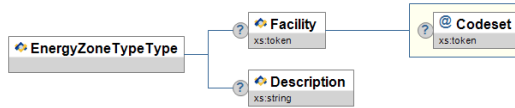


Figure A.154-1: EnergyZoneTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnergyZoneTypeType			Complex type of the facility or location supported by the Energy Zone.	
Facility	C		Type of educational facility. Either the facility type or the description must be provided.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Description	C		Description of type of educational facility. Either the facility type or the description must be provided. Used when location type is not covered by prefixed values in enumerated facility type list.	xs:string

Table A.154-1: EnergyZoneTypeType

A.155 EnglishProficiencyType

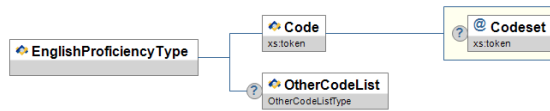


Figure A.155-1: EnglishProficiencyType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EnglishProficiencyType	O			
Code	M	000180 https://ceds.ed.gov/element/000180	Person's proficiency in English.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.155-1: EnglishProficiencyType

A.156 EntryDateType

Common element used to specify the date on which a student enters a school, program, course section, etc. It is used in objects such as StudentSchoolEnrollment and StudentSectionEnrollment.



Figure A.156-1: EntryDateType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EntryDateType			The first date on which a student enters.	xs:date

Table A.156-1: EntryDateType

```

    JSON [ ] XML [ ]
    <EntryDate>2004-08-27</EntryDate>
  
```

Example A.156-1: EntryDateType

A.157 EssentialMaterialListType

Essential materials required to engage in an activity or assignment.



Figure A.157-1: EssentialMaterialListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EssentialMaterialListType			Essential materials required to engage in an activity or assignment.	list
EssentialMaterial	OR		Essential material required to engage in this activity or assignment.	xs:string

Table A.157-1: EssentialMaterialListType

A.158 EvaluationPartsType

The set of the Evaluation Parts.

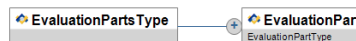


Figure A.158-1: EvaluationPartsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EvaluationPartsType	O		The set of the Evaluation Parts.	list
EvaluationPart	MR		Container for parts of the evaluation.	EvaluationPartType

Table A.158-1: EvaluationPartsType

A.159 EvaluationPartType

Container for parts of the evaluation.

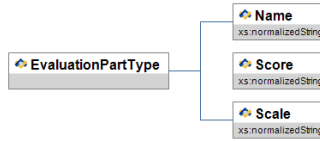


Figure A.159-1: EvaluationPartType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EvaluationPartType	MR		Container for parts of the evaluation.	
Name	M		This is the name of a part that could receive a score.	xs:normalizedString
Score	M		This is a subscore that is part of the evaluation.	xs:normalizedString
Scale	M		This is the scale for the Subscore that is part of the evaluation.	xs:normalizedString

Table A.159-1: EvaluationPartType

A.160 EvaluationRecommendationType

What was done because of a summative evaluation.

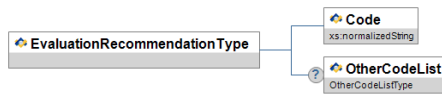


Figure A.160-1: EvaluationRecommendationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
EvaluationRecommendationType	O		What was done because of a summative evaluation.	
Code	M		The code for the decision taken during the summative evaluation. This element corresponds to the global CEDS Id 000102. Currently this is limited to 80 characters.	xs:normalizedString
OtherCodeList	O		Other codes for the decision taken during the summative evaluation.	OtherCodeListType

Table A.160-1: EvaluationRecommendationType

A.161 ExceptionalityCategoryListType

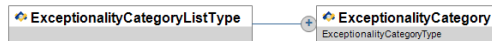


Figure A.161-1: ExceptionalityCategoryListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExceptionalityCategoryListType				list
ExceptionalityCategory	MR			ExceptionalityCategoryType

Table A.161-1: ExceptionalityCategoryListType

A.162 ExceptionalityCategoryType

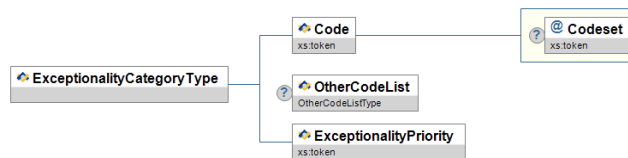


Figure A.162-1: ExceptionalityCategoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExceptionalityCategoryType				
Code	M	000218 https://ceds.ed.gov/element/000218	Exceptionality description/code which identifies the exceptionality or areas of need of the student. Not all programs require identification of an exceptionality. If required for this program type, must have at least one element with ExceptionalityPriority value of Primary.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType
ExceptionalityPriority	M		Identifies priority of the exceptionality. "Primary" is the first and is required even if only one exceptionality is specified. "Secondary", etc. are of lower priority. Primary, Secondary, and Tertiary must be specified before "Additional" is used.	xs:token

Table A.162-1: ExceptionalityCategoryType

```

JSON XML
<ExceptionalityCategoryType
  <Code>2121</Code>
  <ExceptionalityPriority>Primary</ExceptionalityPriority>
</ExceptionalityCategoryType>
    
```

Example A.162-1: ExceptionalityCategoryType

A.163 ExclusionRuleListType

Rules for which statistic may not be reported.

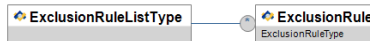


Figure A.163-1: ExclusionRuleListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExclusionRuleListType			Rules for which statistic may not be reported.	List
ExclusionRule	OR		Rule for which statistic may not be reported	ExclusionRuleType

Table A.163-1: ExclusionRuleListType

A.164 ExclusionRuleType

Rule for which statistic may not be reported



Figure A.164-1: ExclusionRuleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExclusionRuleType			Rule for which statistic may not be reported	xs:string
@ Type	M			xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.164-1: ExclusionRuleType

A.165 ExitDateType

The last school calendar day (membership day) the student was enrolled (inclusive). Refer to the object for a precise contextual definition.



Figure A.165-1: ExitDateType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExitDateType			The date on which a student exits.	xs:date

Table A.165-1: ExitDateType

```

JSON XML
<ExitDateType>2005-06-03</ExitDateType>
    
```

Example A.165-1: ExitDateType

A.166 ExpenseAccountListType



Figure A.166-1: ExpenseAccountListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExpenseAccountListType				List
ExpenseAccount	MR		Account that is to be charged for the item.	ExpenseAccountType

Table A.166-1: ExpenseAccountListType

A.167 ExpenseAccountType

Account that is to be charged for the item.

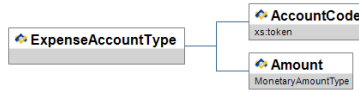


Figure A.167-1: ExpenseAccountType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExpenseAccountType			Account that is to be charged for the item.	
AccountCode	M		Account code charged to this item.	xs:token
Amount	M		Amount charged to this account.	MonetaryAmountType

Table A.167-1: ExpenseAccountType

A.168 ExtendedContentType

Allows for any mixed XML in an element.



Figure A.168-1: ExtendedContentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExtendedContentType			Allows for any mixed XML in an element. ExtendedContentType is the base type for the following data types: <ul style="list-style-type: none"> SIF_ExtendedElementType 	<pre> <xs:complexContent mixed="true"> <xs:restriction base="xs:anyType"> <xs:sequence> <xs:any processContents="lax" minOccurs="0" maxOccurs="unbounded" /> </xs:sequence> </xs:restriction> </xs:complexContent> </pre>

Table A.168-1: ExtendedContentType

A.169 ExtendedParametersType

Allow a SIF Zone Service to have additional vendor-specific parameters.

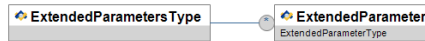


Figure A.169-1: ExtendedParametersType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExtendedParametersType			A list of ExtendedParameter elements	List
ExtendedParameter	OR		An arbitrary parameter with a string name and value	ExtendedParameterType

Table A.169-1: ExtendedParametersType

A.170 ExtendedParameterType

An arbitrary parameter with a string name and value

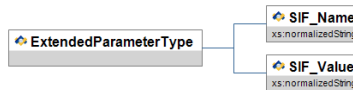


Figure A.170-1: ExtendedParameterType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ExtendedParameterType	OR		An arbitrary parameter with a string name and value	
SIF_Name	M		The name of the parameter	xs:normalizedString
SIF_Value	M		The value of the parameter	xs:normalizedString

Table A.170-1: ExtendedParameterType

A.171 FederalTaxIdType

Taxpayer identification number/Federal tax Id for this vendor.



Figure A.171-1: FederalTaxIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FederalTaxIdType			Taxpayer identification number/Federal tax Id for this vendor.	xs:normalizedString
Code	M		The type tax Id that this is. TIN based on IRS Publication 1915 [IRSTIN].	xs:token
CodeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.171-1: FederalTaxIdType

A.172 FeeForUseType

Description of one fee structure applying to the use of this resource.

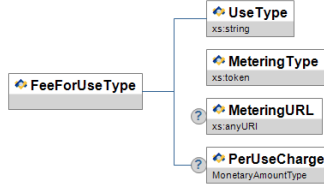


Figure A.172-1: FeeForUseType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FeeForUseType	OR		Description of one fee structure applying to the use of this resource.	
UseType	M		A description of the fee structure for this resource. Some resources may be licensed differently depending upon their context. For example, a content provider might charge one fee structure for resources used in the classroom and a separate fee for those resources available to parents from home.	xs:string
MeteringType	M			xs:token
MeteringURL	O			xs:anyURI
PerUseCharge	O			MonetaryAmountType

Table A.172-1: FeeForUseType

A.173 FeesForUseType

A container for fees for use of the content in the object.



Figure A.173-1: FeesForUseType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FeesForUseType	O		A container for fees for use of the content in the object.	List
FeeForUse	OR		Description of one fee structure applying to the use of this resource.	FeeForUseType

Table A.173-1: FeesForUseType

A.174 FinancialIncomeStatementMonetaryAmountListType

List of monetary amounts.



Figure A.174-1: FinancialIncomeStatementMonetaryAmountListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FinancialIncomeStatementMonetaryAmountListType	M		List of monetary amounts.	List
Amount	MR		Amount	FinancialIncomeStatementMonetaryAmountType

Table A.174-1: FinancialIncomeStatementMonetaryAmountListType

A.175 FinancialIncomeStatementMonetaryAmountType

Monetary amount, with debit and credit types.

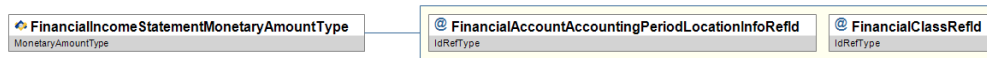


Figure A.175-1: FinancialIncomeStatementMonetaryAmountType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FinancialIncomeStatementMonetaryAmountType			Monetary amount, with debit and credit types.	MonetaryAmountType
FinancialAccountAccountingPeriodLocationInfoRefId	M		FinancialAccountAccountingPeriodLocationInfo reference.	IdRefType
FinancialClassRefId	M		Class of the financial account.	IdRefType

Table A.175-1: FinancialIncomeStatementMonetaryAmountType

A.176 FineInfoListType

List of fines assessed.



Figure A.176-1: FineInfoListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FineInfoListType			List of fines assessed.	List
FineInfo	OR		If the item has a fine assessed to this person, this element will contain the information about the fine.	FineInfoType

Table A.176-1: FineInfoListType

A.177 FineInfoType

If the item has a fine assessed to this person, this element will contain the information about the fine.

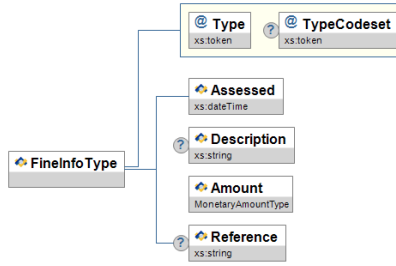


Figure A.177-1: FineInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FineInfoType	OR		If the item has a fine assessed to this person, this element will contain the information about the fine.	
@Type	M		Type of fine assessed to this patron and item. A corresponding ItemInfo is required for all FineInfo types except "Other" and "Refund" where it is permissible to omit the ItemInfo element if there isn't an item associated with the fine.	xs:token
@TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Assessed	M		The date and time that this fine was assessed to the patron.	xs:dateTime
Description	O		More detailed information concerning the assessed fine or refund.	xs:string
Amount	M		The current balance of the fine expressed as a positive number.	MonetaryAmountType
Reference	O		An application-specific reference identifier for the fine being assessed, paid, or refunded. It is intended to identify a specific fine transaction allowing consumers to include this information in Billing or Payment events sent to the library application.	xs:string

Table A.177-1: FineInfoType

A.178 FirstNameType

A person's first name.



Figure A.178-1: FirstNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FirstNameType			A person's first name.	xs:normalizedString

Table A.178-1: FirstNameType

JSON XML

```
<FirstName>Mark</FirstName>
```

Example A.178-1: FirstNameType

A.179 FoodserviceCustomerType

The customer can be a student or staff.

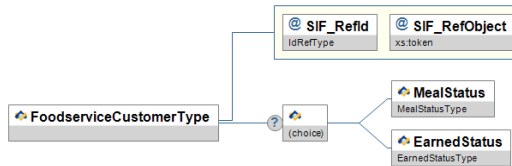


Figure A.179-1: FoodserviceCustomerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceCustomerType			The customer can be a student or staff.	
@SIF_RefId	M		The GUID of the customer doing the transaction.	IdRefType
@SIF_RefObject	M		SIF customer type. If StaffPersonal, then EarnedStatus is included. If StudentPersonal, then MealStatus is included.	xs:token
MealStatus	C			MealStatusType
EarnedStatus	C			EarnedStatusType

Table A.179-1: FoodserviceCustomerType

A.180 FoodserviceItemQuantityListType



Figure A.180-1: FoodserviceItemQuantityListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceItemQuantityListType				List
ItemQuantity	MR		Quantity of item amounts sold	FoodserviceItemQuantityType

Table A.180-1: FoodserviceItemQuantityListType

A.181 FoodserviceItemQuantityType

Quantity of item amounts sold

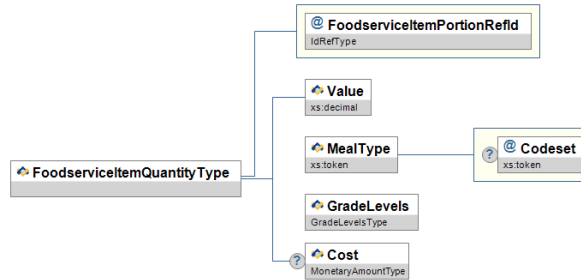


Figure A.181-1: FoodserviceItemQuantityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceItemQuantityType			Quantity of item amounts sold	
FoodserviceItemPortionRefId	M		GUID of FoodserviceItemPortion object	IdRefType
Value	M		The value of item quantity	xs:decimal
MealType	M			xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
GradeLevels	M			GradeLevelsType
Cost	O		The cost (monetary value) of the item sold.	MonetaryAmountType

Table A.181-1: FoodserviceItemQuantityType

A.182 FoodservicePayMethodListType



Figure A.182-1: FoodservicePayMethodListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodservicePayMethodListType				List
TransactionPayMethod	MR		Transaction method.	FoodservicePayMethodType

Table A.182-1: FoodservicePayMethodListType

A.183 FoodservicePayMethodType

Transaction method.

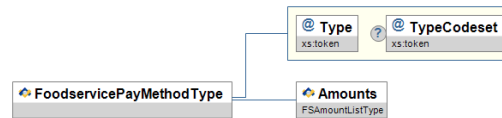


Figure A.183-1: FoodservicePayMethodType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodservicePayMethodType			Transaction method.	
Type	M		This refers to the way the payment was made.	xs:token
TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Amounts	M			FSAmountListType

Table A.183-1: FoodservicePayMethodType

A.184 FoodservicePurchaseQuantityListType

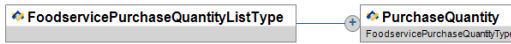


Figure A.184-1: FoodservicePurchaseQuantityListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodservicePurchaseQuantityListType				List
PurchaseQuantity	MR		Quantity of the item being purchased.	FoodservicePurchaseQuantityType

Table A.184-1: FoodservicePurchaseQuantityListType

A.185 FoodservicePurchaseQuantityType

Quantity of the item being purchased

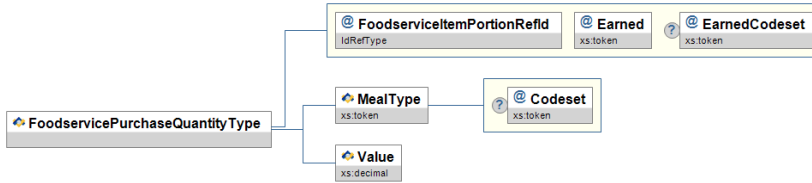


Figure A.185-1: FoodservicePurchaseQuantityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodservicePurchaseQuantityType	MR		Quantity of the item being purchased	
FoodserviceItemPortionRefId	M		Foodservice Item Portion	IdRefType
Earned	M		Identifies whether the item being purchased is earned i.e., at no cost to the buyer. It is used when FoodserviceTransaction object's TransactionType element has the value "Purchase".	xs.token
EarnedCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs.token
MealType	M			xs.token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs.token
Value	M		The value of quantity	xs.decimal

Table A.185-1: FoodservicePurchaseQuantityType

A.186 FoodserviceReimbursementAgencyListType

List of reimbursing agencies.

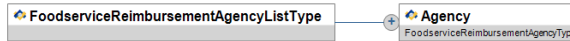


Figure A.186-1: FoodserviceReimbursementAgencyListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceReimbursementAgencyListType	M		List of reimbursing agencies.	List
Agency	MR		Reimbursing agency	FoodserviceReimbursementAgencyType

Table A.186-1: FoodserviceReimbursementAgencyListType

A.187 FoodserviceReimbursementAgencyRateListType

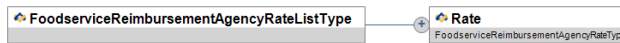


Figure A.187-1: FoodserviceReimbursementAgencyRateListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceReimbursementAgencyRateListType				List
Rate	MR		Reimbursement rate of the meal	FoodserviceReimbursementAgencyRateType

Table A.187-1: FoodserviceReimbursementAgencyRateListType

A.188 FoodserviceReimbursementAgencyRateType

Reimbursement rate of the meal

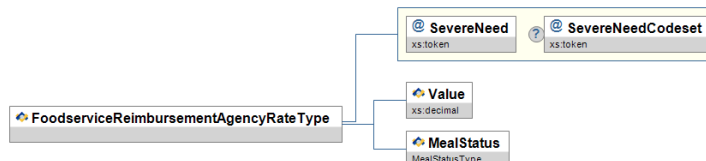


Figure A.188-1: FoodserviceReimbursementAgencyRateType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceReimbursementAgencyRateType			Reimbursement rate of the meal	
@ SevereNeed	M		Severe need identifier for the rate. When SevereNeed is <i>yes</i> then the rate shown is the combined rate. For certain programs the severe need identifier does not apply. In such cases the value <i>NA</i> should be used.	xs:boolean
@ SevereNeedCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Value	M		The rate value	xs:decimal
MealStatus	M			MealStatusType

Table A.188-1: FoodserviceReimbursementAgencyRateType

A.189 FoodserviceReimbursementAgencyType

Reimbursing agency

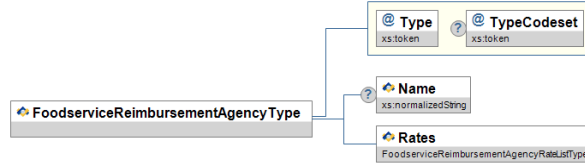


Figure A.189-1: FoodserviceReimbursementAgencyType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceReimbursementAgencyType			Reimbursing agency	
@ Type	M		Type of the reimbursing agency.	xs:boolean
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Name	C		The name of the reimbursing agency. This element is to be used when the Type is set as <i>Other</i> .	xs:normalizedString
Rates	M			FoodserviceReimbursementAgencyRateListType

Table A.189-1: FoodserviceReimbursementAgencyType

A.190 FoodserviceSalesAmountListType



Figure A.190-1: FoodserviceSalesAmountListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceSalesAmountListType	M		List	
SalesAmount	MR		Monetary value (count * cost per unit) done for all grade levels	FoodserviceSalesAmountType

Table A.190-1: FoodserviceSalesAmountListType

A.191 FoodserviceSalesAmountType

Monetary value

(count * cost per unit) done for all grade levels



Figure A.191-1: FoodserviceSalesAmountType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceSalesAmountType			Monetary value (count * cost per unit) done for all grade levels	MonetaryAmountType
@ Type	M		Type of SalesAmount. This denotes the form of incoming funds for the sales done.	xs:boolean
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
@ AccountType	M		Type of account to which sales amounts apply. This is set to <i>NA</i> when Type is set as <i>Earned</i> .	xs:boolean
@ AccountTypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean

Table A.191-1: FoodserviceSalesAmountType

A.192 FoodserviceTransactionListType

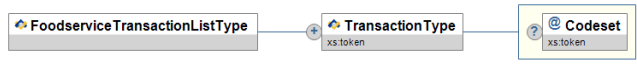


Figure A.192-1: FoodserviceTransactionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FoodserviceTransactionListType				List
TransactionType	MR		Type of transaction	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.192-1: FoodserviceTransactionListType

A.193 FrequencyTimeType

The frequency in segments of time.

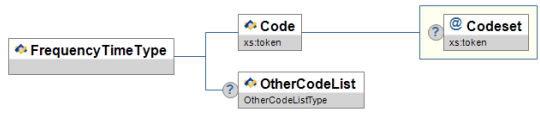


Figure A.193-1: FrequencyTimeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FrequencyTimeType			The frequency in segments of time.	
Code	M		The frequency in segments of time.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.193-1: FrequencyTimeType

A.194 FSAmountListType



Figure A.194-1: FSAmountListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FSAmountListType				List
Amount	MR		This amount refers to the funds being directed inwards to/outwards from the customer's account. That is: these amounts reflect the changes to the account balances.	FSAmountType

Table A.194-1: FSAmountListType

A.195 FSAmountType

This provides information about the value of a food service transaction amount. When credits are specified the value is the total cash value of all the credits.

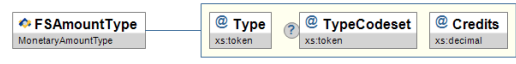


Figure A.195-1: FSAmountType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FSAmountType				MonetaryAmountType
@ Type			Type of amount. Note that when this common element is used not all of the following values apply. There are notes to indicate values that are applicable. The type value is used to denote the value of the amount.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
@ Credits			Number of credits. This attribute does not apply to Cash or Value and hence has a value 0. It only applies to types BreakfastCredit and LunchCredit.	xs:decimal

Table A.195-1: FSAmountType

A.196 FSCountListType



Figure A.196-1: FSCountListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FSCountListType				List
Count	MR			FSCountType

Table A.196-1: FSCountListType

A.197 FSCountType

Reports aggregate counts and, optionally, received funds for individual combinations of student or staff meal status and meal type.

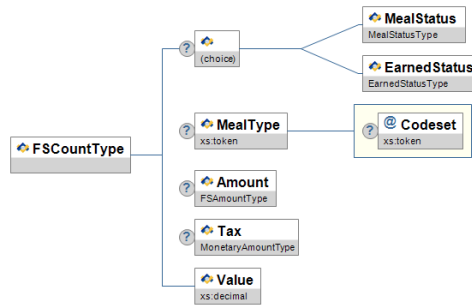


Figure A.197-1: FSCountType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FSCountType			Reports aggregate counts and, optionally, received funds for individual combinations of student or staff meal status and meal type.	
MealStatus	C		Student meal status. If a meal status applies, either MealStatus (for students), or EarnedStatus (for staff) is specified.	MealStatusType
EarnedStatus	C		Staff meal status.	EarnedStatusType
MealType	O			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Amount	O			FSAmountType
Tax	O		Value of tax collected.	MonetaryAmountType
Value	M		The value of the count.	xs:decimal

Table A.197-1: FSCountType

A.198 FunctionListType

A list of short descriptions of other functions the application performs.



Figure A.198-1: FunctionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FunctionListType	O		A list of short descriptions of other functions the application performs.	List
Function	MR			xs:token

Table A.198-1: FunctionListType

A.199 FundedProgramType

This common element is used to describe program information. It uses a type attribute that provides a list of values that identify programs. Each use of this common element should specify the standard list of values to be utilized within that object.



Figure A.199-1: FundedProgramType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FundedProgramType			Program value.	xs:normalizedString
@ Type	M		The type of the program. Type identifies the list of values.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.199-1: FundedProgramType

```

JSON XML
<Program Type="Foodservice">HELLO</Program>
    
```

Example A.199-1: FundedProgramType

A.200 fundingSourceType

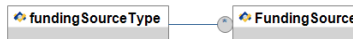


Figure A.200-1: fundingSourceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
FundingSourceType				
FundingSource	OR			
CodeSet	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.200-1: fundingSourceType

A.201 gCitizenshipStatusType

The persons citizenship status.



Figure A.201-1: gCitizenshipStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
gCitizenshipStatusType	O		The persons citizenship status.	xs:token

Table A.201-1: gCitizenshipStatusType

A.202 GenderType

A person's gender.



Figure A.202-1: GenderType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
GenderType	O		A person's gender.	values: M Male F Female U Unknown

Table A.202-1: GenderType

JSON XML

```
<gender>F</gender>
```

Example A.202-1: GenderType

A.203 gFractionDecimalType

A real number between 0 and 1, with two digits of precision.

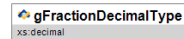


Figure A.203-1: gFractionDecimalType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
gFractionDecimalType	O		A real number between 0 and 1, with two digits of precision.	xs:decimal

Table A.203-1: gFractionDecimalType

A.204 gFullTimeStatusType

An indication of whether the student is enrolled full time or part time.

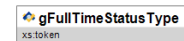


Figure A.204-1: gFullTimeStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
gFullTimeStatusType	O		An indication of whether the student is enrolled full time or part time.	xs:token

Table A.204-1: gFullTimeStatusType

A.205 GiftedTalentedType

Is the student in Gifted/Talented programs?



Figure A.205-1: GiftedTalentedType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
GiftedTalentedType			Is the student in Gifted/Talented programs?	values: Y Yes N No U Unknown

Table A.205-1: GiftedTalentedType

JSON XML

```
<GiftedTalented>Yes</GiftedTalented>
```

Example A.205-1: GiftedTalentedType

A.210 GraduationRequirementType

Does the state require that the course be completed for graduation?



Figure A.210-1: GraduationRequirementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
GraduationRequirementType			Does the state require that the course be completed for graduation?	values: Yes No

Table A.210-1: GraduationRequirementType

```
JSON XML
<GraduationRequirement>Yes</GraduationRequirement>
```

Example A.210-1: GraduationRequirementType

A.211 gRefIdPointerType

A refId that refers to an instance of a SIF object. The RefId points to the object instance.



Figure A.211-1: gRefIdPointerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
gRefIdPointerType	O		A refId that refers to an instance of a SIF object. The RefId points to the object instance.	gUUIDType

Table A.211-1: gRefIdPointerType

A.212 gRefIdType

An object or element identifier. RefIdType are immutable, and unique to an object in a SIF zone.



Figure A.212-1: gRefIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
gRefIdType	O		An object or element identifier. RefIdType are immutable, and unique to an object in a SIF zone.	gUUIDType

Table A.212-1: gRefIdType

A.213 GridLocationType

This element contains a map location. The GridLocation element is utilized within other objects and elements, such as BusStopInfo and Address, etc.

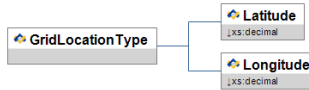


Figure A.213-1: GridLocationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
GridLocationType			This element contains a map location. The GridLocation element is utilized within other objects and elements, such as BusStopInfo and Address, etc.	
Latitude	M		Latitude in decimal degrees. Latitudes north of the equator are positive, latitudes south of the equator are negative. [ISO 6709].	xsd:decimal minInclusive: -90 maxInclusive: 90
Longitude	M		Longitude in decimal degrees. Longitudes east of the Prime Meridian in Greenwich are positive, longitudes west of the Prime Meridian are negative. The 180th meridian is negative. [ISO 6709]	xsd:decimal minInclusive: -180 maxInclusive: 180

Table A.213-1: GridLocationType

```
JSON XML
<GridLocation>
  <Latitude>41.850000</Latitude>
  <Longitude>-87.850000</Longitude>
</GridLocation>
```

Example A.213-1: GridLocationType

A.214 gStreetType

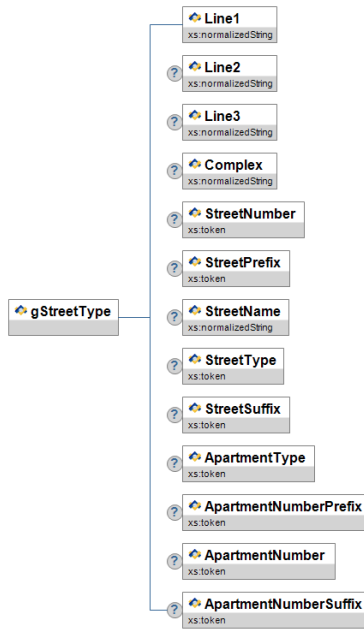


Figure A.214-1: gStreetType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
gStreetType				xs:normalizedString
Line1	M			xs:normalizedString
Line2	O			xs:normalizedString
Line3	O			xs:normalizedString
Complex	O			xs:normalizedString
StreetNumber	O			xs:token
StreetPrefix	O			xs:token
StreetName	O			xs:normalizedString
StreetType	O			xs:token
StreetSuffix	O			xs:token
ApartmentType	O			xs:token
ApartmentNumberPrefix	O			xs:token
ApartmentNumber	O			xs:token
ApartmentNumberSuffix	O			xs:token

Table A.214-1: gStreetType

A.215 GUIDType

SIF format for a GUID.



Figure A.215-1: GUIDType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
GUIDType			SIF format for a GUID.	xs:token [pattern="([0-9a-fa-f-]{32,36})"]

Table A.215-1: GUIDType

A.216 gUUIDType

UUID or legacy GUID, used as object identifier. UUIDs are to be generated using version 1 or 4 as specified in RFC 4122, section 4.1.3.



Figure A.216-1: gUUIDType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
gUUIDType			UUID or legacy GUID, used as object identifier. UUIDs are to be generated using version 1 or 4 as specified in RFC 4122, section 4.1.3.	xs:token [pattern="([0-9a-fa-f-]{32,36})"]

Table A.216-1: gUUIDType

A.217 HispanicLatinoType

An indication that the individual traces his or her origin or descent to Mexico, Puerto Rico, Cuba, Central or South America, or other Spanish cultures, regardless of race.



Figure A.217-1: HispanicLatinoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
HispanicLatinoType			An indication that the individual traces his or her origin or descent to Mexico, Puerto Rico, Cuba, Central or South America, or other Spanish cultures, regardless of race.	values: Yes No

Table A.217-1: HispanicLatinoType

```

JSON [ ] XML [ ]
<HispanicLatino>Yes</HispanicLatino>
    
```

Example A.217-1: HispanicLatinoType

A.218 HoldInfoListType

List of holds placed.



Figure A.218-1: HoldInfoListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
HoldInfoListType			List of holds placed.	List
HoldInfo	OR		If the item has a hold placed on it by a patron, this element will contain the information about the hold.	HoldInfoType

Table A.218-1: HoldInfoListType

A.219 HoldInfoType

If the item has a hold placed on it by a patron, this element will contain the information about the hold.

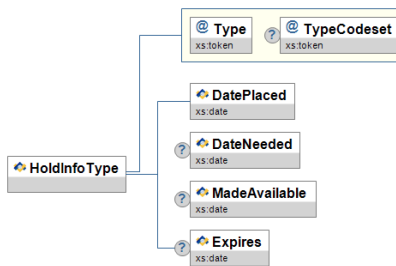


Figure A.219-1: HoldInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
HoldInfoType			If the item has a hold placed on it by a patron, this element will contain the information about the hold.	
@ Type	M		The type of hold being referenced.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
DatePlaced	M		The date that the patron placed the hold.	xs:date
DateNeeded	O		The date that the patron needs this item by.	xs:date
MadeAvailable	O		The date that this item became available for the patron to pick up.	xs:date
Expires	O		The date when this ready hold will expire freeing the item to be assigned to another patron.	xs:date

Table A.219-1: HoldInfoType

A.220 HomeEnrollmentType

Enrollment-related information for the school that is responsible for reporting the student's membership/child accounting information. This is most likely the primary enrollment site for the student.

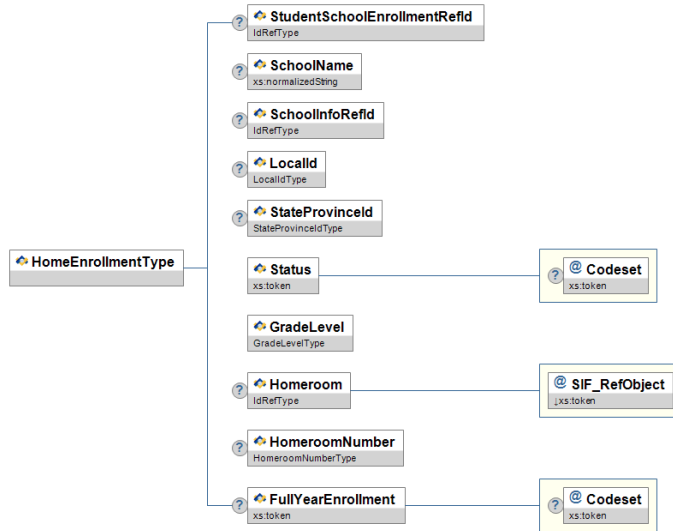


Figure A.220-1: HomeEnrollmentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
HomeEnrollmentType	M		Enrollment-related information for the school that is responsible for reporting the student's membership/child accounting information. This is most likely the primary enrollment site for the student.	
StudentSchoolEnrollmentRefId	O		The Id (GUID) of the StudentSchoolEnrollment object from which the enrollment information is derived.	IdRefType
SchoolName	O		Name of the school.	xs:normalizedString
SchoolInfoRefId	C		The Id (GUID) of the school. Provide both the HomeEnrollment/SchoolInfoRefId and HomeEnrollment/LocalId elements if possible. If not, one or the other must be provided.	IdRefType
LocalId	C		The locally-defined identifier for this school. Provide both the HomeEnrollment/LocalId and HomeEnrollment/SchoolId elements if possible. If not, one or the other must be provided.	LocalIdType
StateProvinceId	O		The state or province defined identifier for this school.	StateProvinceIdType
Status	M		Enrollment status as of the SnapDate.	xs:token
@ CodeSet	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
GradeLevel	M		Grade or academic level of student.	GradeLevelType
Homeroom	O			IdRefType
@ SIF_RefObject	M		The name of the SIF object referenced.	values: RoomInfo
HomeroomNumber	O		The locally-defined identifier for this room.	HomeroomNumberType
FullYearEnrollment	O		An indication as to whether or not the student was enrolled for the whole school year. If the SchoolYear is in progress as of the SnapDate, use the value "Unknown".	xs:token
@ CodeSet	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.220-1: HomeEnrollmentType

A.221 HomelessType

Is the student homeless?



Figure A.221-1: HomelessType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
HomelessType			Is the student homeless?	values: yes no unknown

Table A.221-1: HomelessType

JSON XML

```

    <HomelessType?></HomelessType?>
    
```

Example A.221-1: HomelessType

A.222 HomeroomNumberType

Common element used to specify the locally-defined number or identifier for a homeroom. It is used in objects such as RoomInfo and StudentSnapshot.

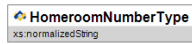


Figure A.222-1: HomeroomNumberType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
HomeroomNumberType			Common element used to specify the locally-defined number or identifier for a homeroom. It is used in objects such as RoomInfo and StudentSnapshot.	xs:normalizedString

Table A.222-1: HomeroomNumberType

JSON XML

```
<HomeroomNumber>A-204</HomeroomNumber>
```

Example A.222-1: HomeroomNumberType

A.223 IDEAType

Is the student IDEA-eligible ("special education")? (Mutually exclusive with Section 504 classification.)



Figure A.223-1: IDEAType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IDEAType			Is the student IDEA-eligible ("special education")? (Mutually exclusive with Section 504 classification.)	values: Yes No Unknown

Table A.223-1: IDEAType

JSON XML

```
<IDEA>No</IDEA>
```

Example A.223-1: IDEAType

A.224 IdentificationInfoListType

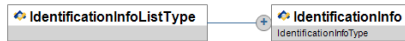


Figure A.224-1: IdentificationInfoListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IdentificationInfoListType				list
IdentificationInfo	MR	000364 https://ceds.ed.gov/element/000364	Other identification information associated with a school or LEA.	IdentificationInfoType

Table A.224-1: IdentificationInfoListType

JSON XML

```
<IdentificationInfoList>
  <IdentificationInfo Code="0175">00123</IdentificationInfo>
</IdentificationInfoList>
```

Example A.224-1: IdentificationInfoListType

A.225 IdentificationInfoType

Other identification information associated with a school or LEA.

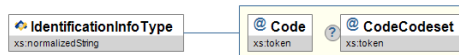


Figure A.225-1: IdentificationInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IdentificationInfoType			Other identification information associated with a school or LEA.	xs:normalizedString
@ Code			Code indicating which identification system is used.	xs:token xs:token
@ CodeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.225-1: IdentificationInfoType

JSON XML

```
<IdentificationInfo Code="0175">00123</IdentificationInfo>
```

Example A.225-1: IdentificationInfoType

A.226 IdentityProviderListType

If the application can use multiple Identity Providers (authentication providers) to authenticate the user, for example Google directory service, LDAP, AD, etc., there could be multiple such providers in this list.



Figure A.226-1: IdentityProviderListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IdentityProviderListType	O		If the application can use multiple Identity Providers (authentication providers) to authenticate the user, for example Google directory service, LDAP, AD, etc., there could be multiple such providers in this list.	List
IdentityProvider	MR		RefId of an Identity Provider application.	IdRefType

Table A.226-1: IdentityProviderListType

A.227 IdRefType

A reference to a RefId.



Figure A.227-1: IdRefType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IdRefType			A reference to a RefId.	RefIdType

Table A.227-1: IdRefType

A.228 iepAcceptedType

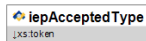


Figure A.228-1: iepAcceptedType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepAcceptedType	O			values: Yes No

Table A.228-1: iepAcceptedType

A.229 iepAdministrativeDataCostSharingType

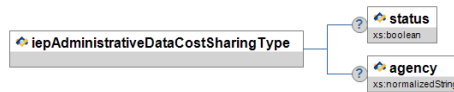


Figure A.229-1: iepAdministrativeDataCostSharingType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepAdministrativeDataCostSharingType				
status	O		Plan has cost sharing available.	xs:boolean
agency	O		Government agency contributing funds to the support of this student.	xs:normalizedString

Table A.229-1: iepAdministrativeDataCostSharingType

A.230 iepAdministrativeDataType

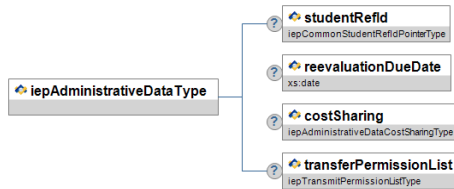


Figure A.230-1: iepAdministrativeDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepAdministrativeDataType				
studentRefId	O		This is the reference identifier of the student, for when the student record is expected to be retrievable. This is an alternative to the student though both may be present.	iepCommonStudentRefIdPointerType
reevaluationDueDate	O		The date that the next evaluation is due based on the three year cycle.	xs:date
costSharing	O			iepAdministrativeDataCostSharingType
transferPermissionList	O			iepTransferPermissionListType

Table A.230-1: iepAdministrativeDataType

A.231 iepCategoryType



Figure A.231-1: iepCategoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCategoryType	O			values: IndependentLiving Post-secondary WorkingEnvironment

Table A.231-1: iepCategoryType

A.232 iepCommonAccommodationType

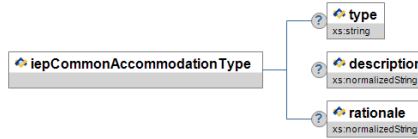


Figure A.232-1: iepCommonAccommodationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonAccommodationType				
type	O	000385 https://ceds.ed.gov/element/000385	The specific accommodation necessary for assessment or instruction.	xs:string
description	O	001685 https://ceds.ed.gov/element/001685	Description of a specific accommodation or change to standards or practices that will be made.	xs:normalizedString
rationale	O	001687 https://ceds.ed.gov/element/001687	A statement of why— (A) The child cannot participate in the regular assessment; and (B) The particular alternate assessment selected is appropriate for the child.	xs:normalizedString

Table A.232-1: iepCommonAccommodationType

A.233 iepCommonAuthorizingPersonType

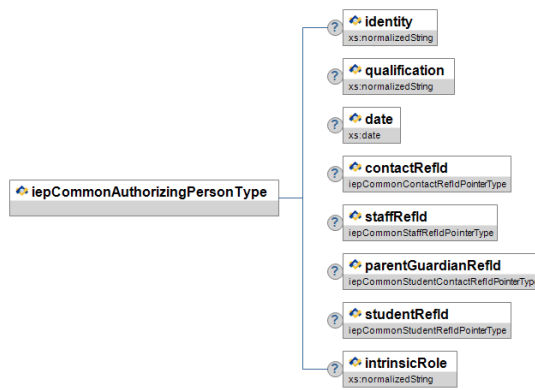


Figure A.233-1: iepCommonAuthorizingPersonType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonAuthorizingPersonType				
identity	O			xs:normalizedString
qualification	O		Qualification to participate in the authorization of this plan.	xs:normalizedString
date	O	001725 https://ceds.ed.gov/element/001725	The date the authorization occurred.	xs:date
contactRefId	O		Pointer to xContact object when authorizing person is a contact	iepCommonContactRefIdPointerType
staffRefId	O		Pointer to xStaff object when authorizing person is a staff member	iepCommonStaffRefIdPointerType
parentGuardianRefId	O		Pointer to studentContacts xContact object when authorizing person is a studentContact	iepCommonStudentContactRefIdPointerType
studentRefId	O		Pointer to xStudent object when authorizing person is the student him or herself	iepCommonStudentRefIdPointerType
intrinsicRole	O		Role of the person (eg, teacher, parent, principal, student, etc).	xs:normalizedString

Table A.233-1: iepCommonAuthorizingPersonType

A.234 iepCommonContactRefIdPointerType

A refId that refers to an instance of a SIF xContact object. The RefId points to the object instance.



Figure A.234-1: iepCommonContactRefIdPointerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonContactRefIdPointerType	O		A refId that refers to an instance of a SIF xContact object. The RefId points to the object instance.	gUIDType

Table A.234-1: iepCommonContactRefIdPointerType

A.235 iepCommonExternalPartyType

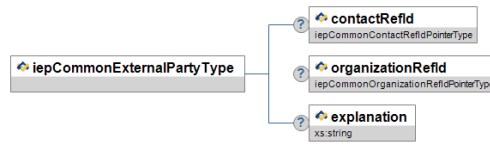


Figure A.235-1: iepCommonExternalPartyType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonExternalPartyType				
contactRefId	O		Pointer to xContact object when external party is a contact	iepCommonContactRefIdPointerType
organizationRefId	O		Pointer to xOrganization object when external party is an organization	iepCommonOrganizationRefIdPointerType
explanation	O		Explanation of the role of this party in this IEP	xs:string

Table A.235-1: iepCommonExternalPartyType

A.236 iepCommonLeaRefIdPointerType

A refId that refers to an instance of xLeaType object. The RefId points to the object instance.

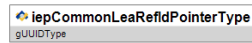


Figure A.236-1: iepCommonLeaRefIdPointerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonLeaRefIdPointerType	O		A refId that refers to an instance of xLeaType object. The RefId points to the object instance.	gUIDType

Table A.236-1: iepCommonLeaRefIdPointerType

A.237 iepCommonOrganizationRefIdPointerType

A refId that refers to an instance of xOrganization object. The RefId points to the object instance.

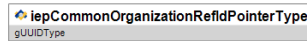


Figure A.237-1: iepCommonOrganizationRefIdPointerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonOrganizationRefIdPointerType	O		A refId that refers to an instance of xOrganization object. The RefId points to the object instance.	gUIDType

Table A.237-1: iepCommonOrganizationRefIdPointerType

A.238 iepCommonServiceProviderType

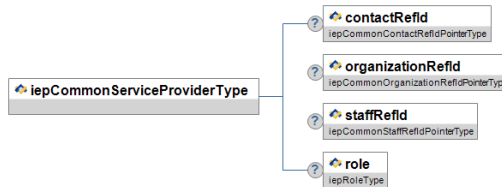


Figure A.238-1: iepCommonServiceProviderType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonServiceProviderType				
contactRefId	O		Pointer to xContact object when service provider is a contact	iepCommonContactRefIdPointerType
organizationRefId	O		Pointer to xOrganization when service provider is an organization	iepCommonOrganizationRefIdPointerType
staffRefId	O		Pointer to xStaff when service provider is a staff member	iepCommonStaffRefIdPointerType
role	O	000558 https://ceds.ed.gov/element/000558	Titles of personnel employed and contracted to provide special education and related services for children with disabilities.	iepRoleType values: PSTCB SOCIALWORK OCCUPERAP JUDID PEANORSEC PRTOTHEERAP EPFICORINTE INTERPRET COORSEGR ORIENTMUSL MEMORISE

Table A.238-1: iepCommonServicePviderType

A.239 iepCommonStaffRefIdPointerType

A refId that refers to an instance of a SIF xStaff object. The RefId points to the object instance.



Figure A.239-1: iepCommonStaffRefIdPointerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonStaffRefIdPointerType	O		A refId that refers to an instance of a SIF xStaff object. The RefId points to the object instance.	gUUIDType

Table A.239-1: iepCommonStaffRefIdPointerType

A.240 iepCommonStudentContactRefIdPointerType

A refId that refers to an instance of xStudent/studentContacts/xStudentContactListType/xContact object. The RefId points to the object instance.



Figure A.240-1: iepCommonStudentContactRefIdPointerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonStudentContactRefIdPointerType	O		A refId that refers to an instance of xStudent/studentContacts/xStudentContactListType/xContact object. The RefId points to the object instance.	gUUIDType

Table A.240-1: iepCommonStudentContactRefIdPointerType

A.241 iepCommonStudentRefIdPointerType

A refId that refers to an instance of a SIF xStudent object. The RefId points to the object instance.

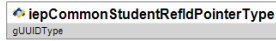


Figure A.241-1: iepCommonStudentRefIdPointerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepCommonStudentRefIdPointerType	O		A refId that refers to an instance of a SIF xStudent object. The RefId points to the object instance.	gUUIDType

Table A.241-1: iepCommonStudentRefIdPointerType

A.242 iepEligibilityBackgroundConsentToEvaluateType

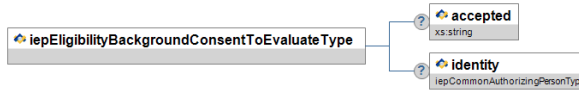


Figure A.242-1: iepEligibilityBackgroundConsentToEvaluateType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
accepted	O	001726 https://ceds.ed.gov/element/001726	Indication parent agreed to evaluate student.	xs:string
identity	O		Identity of Consenting Person	iepCommonAuthorizingPersonType

Table A.242-1: iepEligibilityBackgroundConsentToEvaluateType

A.243 iepEligibilityBackgroundReferralReferrerType

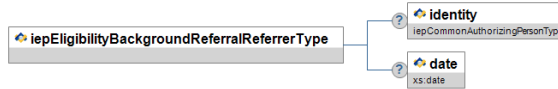


Figure A.243-1: iepEligibilityBackgroundReferralReferrerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
identity	O		Parent or official referring student for evaluation	iepCommonAuthorizingPersonType
date	O	001481 https://ceds.ed.gov/element/001481	The date of referral.	xs:date

Table A.243-1: iepEligibilityBackgroundReferralReferrerType

A.244 iepEligibilityBackgroundReferralType

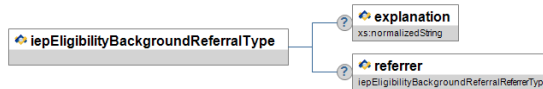


Figure A.244-1: iepEligibilityBackgroundReferralType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
explanation	O	001483 https://ceds.ed.gov/element/001483	The reason for the referral.	xs:normalizedString
referrer	O			iepEligibilityBackgroundReferralReferrerType

Table A.244-1: iepEligibilityBackgroundReferralType

A.245 iepEligibilityBackgroundType

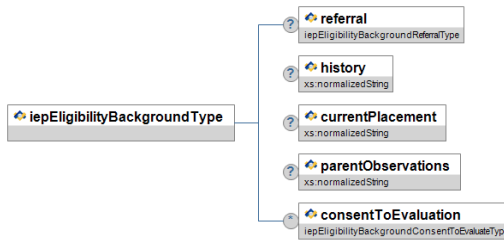


Figure A.245-1: iepEligibilityBackgroundType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityBackgroundType				
referral	O			iepEligibilityBackgroundReferralType
history	O		Historical information significant to special education evaluation	xs:normalizedString
currentPlacement	O		Description of the current placement of student	xs:normalizedString
parentObservations	O	001732 https://ceds.ed.gov/element/001732	Explanation of parent's observations of student's characteristics and history used for determining eligibility.	xs:normalizedString
consentToEvaluation	OR		Legal authorization to conduct evaluation	iepEligibilityBackgroundConsentToEvaluateType

Table A.245-1: iepEligibilityBackgroundType

A.246 iepEligibilityEvaluationResultListType

List of the results of evaluations of the student

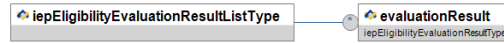


Figure A.246-1: iepEligibilityEvaluationResultListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityEvaluationResultListType			List of the results of evaluations of the student	
evaluationResult	OR		Results of one specific evaluation.	iepEligibilityEvaluationResultType

Table A.246-1: iepEligibilityEvaluationResultListType

A.247 iepEligibilityEvaluationResultType

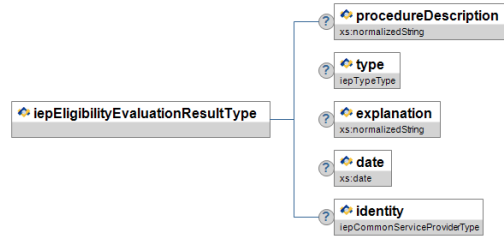


Figure A.247-1: iepEligibilityEvaluationResultType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityEvaluationResultType				
procedureDescription	O	001730 https://ceds.ed.gov/element/001730	Description of evaluation procedure and result used for determining eligibility.	xs:normalizedString
type	O	001729 https://ceds.ed.gov/element/001729	Category of evaluation used for IDEA eligibility.	iepTypeType values: Academic Achievement Developmental Motor Functional Behavior Adaptive Behavior Transition Vocational Communication Hearing Vision Orientation and Mobility Medical Language Speech Cognitive Social/Emotional Other
explanation	O		Explanation for choice of other or information refining type selection.	xs:normalizedString
date	O	001731 https://ceds.ed.gov/element/001731	The date when the evaluation was conducted.	xs:date
identity	O		Identity of person making the evaluation	iepCommonServiceProviderType

Table A.247-1: iepEligibilityEvaluationResultType

A.248 iepEligibilityIdeaDisabilityAnalysisType

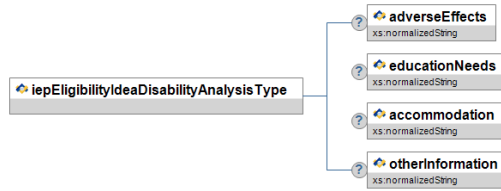


Figure A.248-1: iepEligibilityIdeaDisabilityAnalysisType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityIdeaDisabilityAnalysisType				
adverseEffects	O		Discussion of the educational problems that result from the disability	xs:normalizedString
educationNeeds	O		Description of the overall changes needed for the student's educational program	xs:normalizedString
accommodation	O		Description of the accommodation needed to optimize the student's potential for learning.	xs:normalizedString
otherInformation	O		Additional information that explains how to improve the student's educational outcome.	xs:normalizedString

Table A.248-1: iepEligibilityIdeaDisabilityAnalysisType

A.249 iepEligibilityIdeaDisabilityDecisionsType

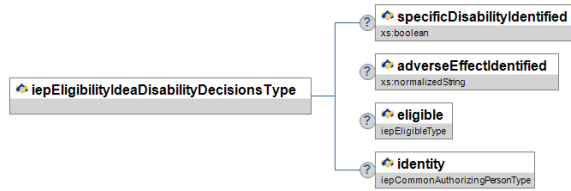


Figure A.249-1: iepEligibilityIdeaDisabilityDecisionsType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityIdeaDisabilityDecisionsType				
specificDisabilityIdentified	O	000577 https://ceds.ed.gov/element/000577	An indication of whether a person is classified as disabled under the American's with Disability Act (ADA).	xs:boolean
adverseEffectIdentified	O		Official determination that the disability has adverse effects	xs:normalizedString
eligible	O	000151 https://ceds.ed.gov/element/000151	A person having intellectual disability; hearing impairment, including deafness; speech or language impairment; visual impairment, including blindness; serious emotional disturbance (hereafter referred to as emotional disturbance); orthopedic impairment; autism; traumatic brain injury; developmental delay; other health impairment; specific learning disability; deaf-blindness; or multiple disabilities and who, by reason thereof, receive special education and related services under the Individuals with Disabilities Education Act (IDEA) according to an Individualized Education Program (IEP), Individual Family Service Plan (IFSP), or service plan.	iepEligibleType values: Yes No
identity	O		Identity of Person Responsible for Eligibility Determination	iepCommonAuthorizingPersonType

Table A.249-1: iepEligibilityIdeaDisabilityDecisionsType

A.250 iepEligibilityIdeaDisabilitySpecificLearningDisabilityDecisionsType

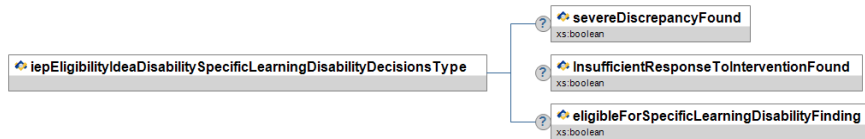


Figure A.250-1: iepEligibilityIdeaDisabilitySpecificLearningDisabilityDecisionsType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityIdeaDisabilitySpecificLearningDisabilityDecisionsType				
severeDiscrepancyFound	O		Determination that there is a severe discrepancy between standard educational attainment and student performance	xs:boolean
InsufficientResponseToInterventionFound	O		Determination that student has not responded to intervention	xs:boolean
eligibleForSpecificLearningDisabilityFinding	O		Determination that this student is eligible for special education	xs:boolean

Table A.250-1: iepEligibilityIdeaDisabilitySpecificLearningDisabilityDecisionsType

A.251 iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsprimaryCauseExclusionsDeterminantFactorsType

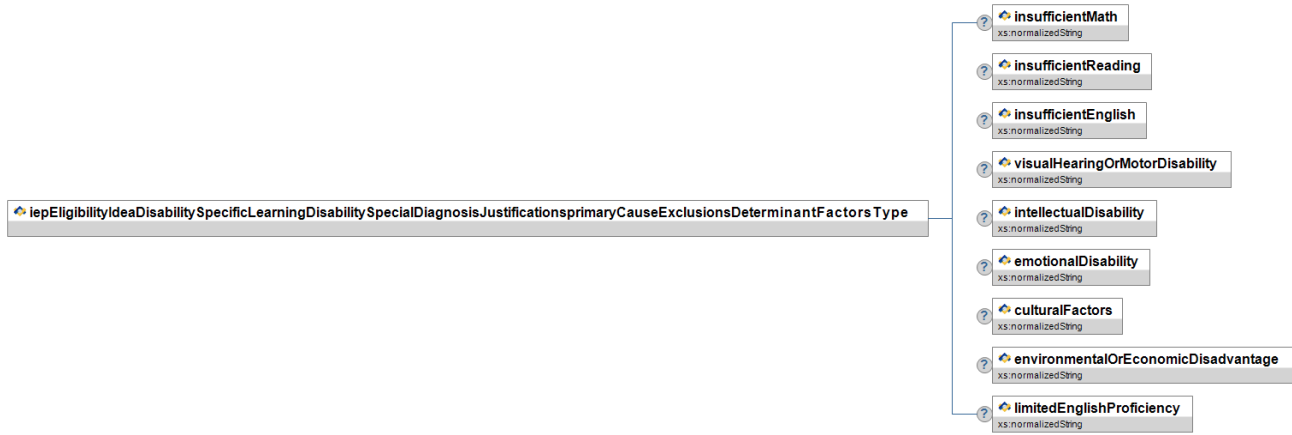


Figure A.251.1: iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsPrimaryCauseExclusionsDeterminantFactorsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsPrimaryCauseExclusionsDeterminantFactorsType				
insufficientMath	O		Insufficient Math Found	xs.normalizedString
insufficientReading	O		Insufficient Reading Found	xs.normalizedString
insufficientEnglish	O		Insufficient English Found	xs.normalizedString
visualHearingOrMotorDisability	O		Visual, Hearing Or Motor Disability Found	xs.normalizedString
intellectualDisability	O		Intellectual Disability Found	xs.normalizedString
emotionalDisability	O		Emotional Disability Found	xs.normalizedString
culturalFactors	O		Cultural Factors Found	xs.normalizedString
environmentalOrEconomicDisadvantage	O		Environmental Or Economic Disadvantage Found	xs.normalizedString
limitedEnglishProficiency	O		Limited English Proficiency Found	xs.normalizedString

Table A.251.1: iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsPrimaryCauseExclusionsDeterminantFactorsType

A.252 iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsPrimaryCauseExclusionsType



Figure A.252.1: iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsPrimaryCauseExclusionsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsPrimaryCauseExclusionsType				
determinantFactors	O			iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsPrimaryCauseExclusionsType
medicalExplanation	O		Medical reasons for determination that a potentially excluded factor is actually a disability	xs.normalizedString
otherFactorsExplanation	O		Other reasons that student should not be excluded from special education programs	xs.normalizedString

Table A.252.1: iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsPrimaryCauseExclusionsType

A.253 iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsSpecificLearningDisabilityType

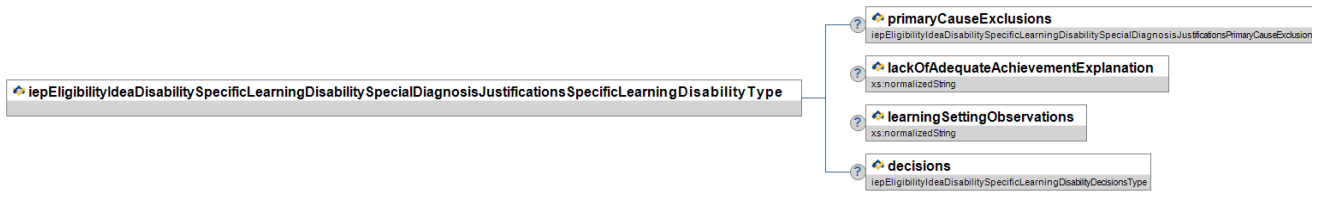


Figure A.253-1: iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsSpecificLearningDisabilityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
primaryCauseExclusions	O			iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsPrimaryCauseExclusionsType
lackOfAdequateAchievementExplanation	O		Description the specific educational shortcomings that lead to a disability diagnosis	xs:normalizedString
learningSettingObservations	O		Observations about the student's performance in a practical learning setting	xs:normalizedString
decisions	O			iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsDecisionsType

Table A.253-1: iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsSpecificLearningDisabilityType

A.254 iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsType

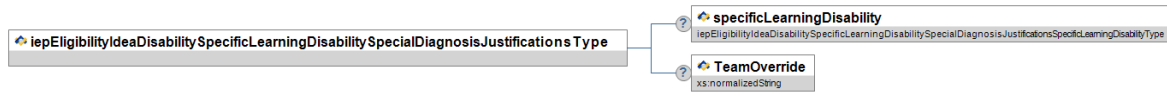


Figure A.254-1: iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
specificLearningDisability	O			iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsSpecificLearningDisabilityType
TeamOverride	O		Information supporting the disability code 'Team Override'	xs:normalizedString

Table A.254-1: iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsType

A.255 iepEligibilityIdeaDisabilityType

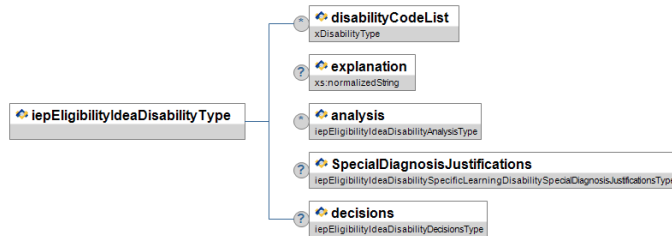


Figure A.255-1: iepEligibilityIdeaDisabilityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
disabilityCodeList	OR	000218 https://ceds.ed.gov/element/000218	Categories of Disability Under IDEA	xDisabilityType
explanation	O		Explanation or information refining disability selection.	xs:normalizedString
analysis	OR			iepEligibilityIdeaDisabilityAnalysisType
SpecialDiagnosisJustifications	O			iepEligibilityIdeaDisabilitySpecificLearningDisabilitySpecialDiagnosisJustificationsType
decisions	O			iepEligibilityIdeaDisabilityDecisionsType

Table A.255-1: iepEligibilityIdeaDisabilityType

A.256 iepEligibilityParticipantReportListParticipantReportType

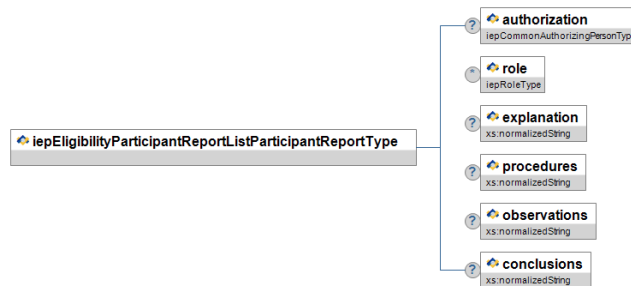


Figure A.256-1: iepEligibilityParticipantReportListParticipantReportType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityParticipantReportListParticipantReportType				
authorization	O		Proved identity of report author	iepCommonAuthorizingPersonType
role	OR		Professional occupation category or relationship to student	iepRoleType values: PEVCH SOCIALLMGRK OCCURREAP ADID PEANDBEC PRTSTHERAP REFERRPASH INTERPRET COUNSELOR ORLESTNGBIL RESOURSE
explanation	O		Explanation for choice of other or information refining category selection.	xs:normalizedString
procedures	O		What the participant did with the student	xs:normalizedString
observations	O		What the participant observed during evaluation	xs:normalizedString
conclusions	O		Conclusions reached as a result of the evaluation	xs:normalizedString

Table A.256-1: iepEligibilityParticipantReportListParticipantReportType

A.257 iepEligibilityParticipantReportListType

Documentation produced by people who have participated in the eligibility determination

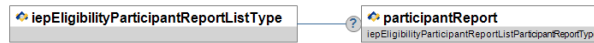


Figure A.257-1: iepEligibilityParticipantReportListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityParticipantReportListType			Documentation produced by people who have participated in the eligibility determination	
participantReport	O			iepEligibilityParticipantReportListParticipantReportType

Table A.257-1: iepEligibilityParticipantReportListType

A.258 iepEligibilityType

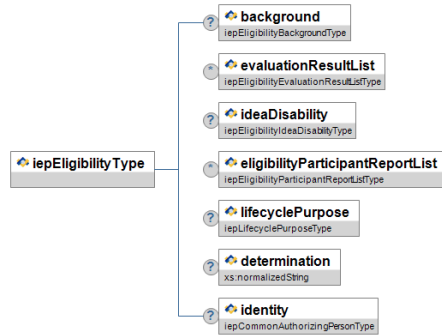


Figure A.258-1: iepEligibilityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEligibilityType				
background	O			iepEligibilityBackgroundType
evaluationResultList	OR			iepEligibilityEvaluationResultListType
ideaDisability	O			iepEligibilityIdeaDisabilityType
eligibilityParticipantReportList	OR			iepEligibilityParticipantReportListType
lifecyclePurpose	O	001728 https://ceds.ed.gov/element/001728	Purpose within the IEP lifecycle for which the eligibility evaluation is conducted.	iepLifecyclePurposeType values: Initial Reevaluation
determination	O		Explanation for how the student's condition meets the criteria for disability.	xs:normalizedString
identity	O		Identity of Person Making the Determination	iepCommonAuthorizingPersonType

Table A.258-1: iepEligibilityType

A.259 iepEligibleType



Figure A.259-1: iepEligibleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEligibleType	O			values: Yes No

Table A.259-1: iepEligibleType

A.260 iepEnvironmentForEarlyChildhoodType

iepEnvironmentForEarlyChildhoodType
_jxs:token

Figure A.260-1: iepEnvironmentForEarlyChildhoodType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEnvironmentForEarlyChildhoodType	O			values: RRC09Y07HLOC RRC10Y07HLOC RRC09Y07VCR RRC10Y07VCR SC SB RF B GFL

Table A.260-1: iepEnvironmentForEarlyChildhoodType

A.261 iepEnvironmentForSchoolAgeType

iepEnvironmentForSchoolAgeType
_jxs:token

Figure A.261-1: iepEnvironmentForSchoolAgeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepEnvironmentForSchoolAgeType	O			values: RC80 RC79T040 RC39 IS RF HS CF Y29S

Table A.261-1: iepEnvironmentForSchoolAgeType

A.262 iepExtendsSchoolYearType

iepExtendsSchoolYearType
_jxs:token

Figure A.262-1: iepExtendsSchoolYearType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepExtendsSchoolYearType	O			values: Yes No

Table A.262-1: iepExtendsSchoolYearType

A.263 iepInclusiveSettingIndicatorType

iepInclusiveSettingIndicatorType
_jxs:token

Figure A.263-1: iepInclusiveSettingIndicatorType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepInclusiveSettingIndicatorType	O			values: Yes No

Table A.263-1: iepInclusiveSettingIndicatorType

A.264 iepLifecyclePurposeType

iepLifecyclePurposeType
_jxs:token

Figure A.264-1: iepLifecyclePurposeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepLifecyclePurposeType	O			values: Initial Reevaluation

Table A.264-1: iepLifecyclePurposeType

A.265 iepPeriodType

iepPeriodType
_jxs:token

Figure A.265-1: iepPeriodType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPeriodType	O			values: day week month quarter term year school_year

Table A.265-1: iepPeriodType

A.266 iepPlanAccommodationsListAccommodationApplicabilityListType

List of circumstances in which the accommodation or change to standards or practices will be applied.

iepPlanAccommodationsListAccommodationApplicabilityListType → **applicability**
_jxs:string

Figure A.266-1: iepPlanAccommodationsListAccommodationApplicabilityListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAccommodationsListAccommodationApplicabilityListType			List of circumstances in which the accommodation or change to standards or practices will be applied.	
applicability	O	001686 https://ceds.ed.gov/element/001686	Circumstances in which the accommodation or change to standards or practices will be applied.	xs:string

Table A.266-1: iepPlanAccommodationsListAccommodationApplicabilityListType

A.267 iepPlanAccommodationsListAccommodationType

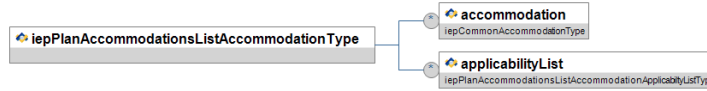


Figure A.267-1: iepPlanAccommodationsListAccommodationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAccommodationsListAccommodationType				
accommodation	OR			iepCommonAccommodationType
applicabilityList	OR			iepPlanAccommodationsListAccommodationApplicabilityListType

Table A.267-1: iepPlanAccommodationsListAccommodationType

A.268 iepPlanAccommodationsListType

List of accommodations to support effective learning

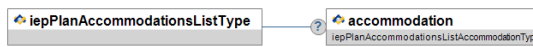


Figure A.268-1: iepPlanAccommodationsListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAccommodationsListType			List of accommodations to support effective learning	
accommodation	O			iepPlanAccommodationsListAccommodationType

Table A.268-1: iepPlanAccommodationsListType

A.269 iepPlanAmendmentListAmendmentChangeListChangeType

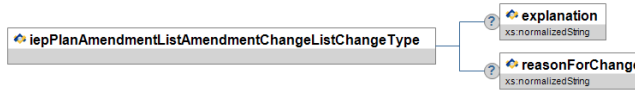


Figure A.269-1: iepPlanAmendmentListAmendmentChangeListChangeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAmendmentListAmendmentChangeListChangeType				
explanation	O	001689 https://ceds.ed.gov/element/001689	Description of the changes made to the individualized program service plan.	xs:normalizedString
reasonForChange	O	001688 https://ceds.ed.gov/element/001688	Description of the reason changes were made to the individualized program service plan.	xs:normalizedString

Table A.269-1: iepPlanAmendmentListAmendmentChangeListChangeType

A.270 iepPlanAmendmentListAmendmentChangeListType

List of changes included in this amendment



Figure A.270-1: iepPlanAmendmentListAmendmentChangeListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAmendmentListAmendmentChangeListType			List of changes included in this amendment	
change	OR			iepPlanAmendmentListAmendmentChangeListChangeType

Table A.270-1: iepPlanAmendmentListAmendmentChangeListType

A.271 iepPlanAmendmentListAmendmentType

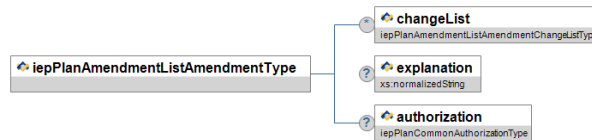


Figure A.271-1: iepPlanAmendmentListAmendmentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAmendmentListAmendmentType				
changeList	OR			iepPlanAmendmentListAmendmentChangeListType
explanation	O	001688 https://ceds.ed.gov/element/001688	Description of the reason changes were made to the individualized program service plan.	xs:normalizedString
authorization	O		Legal response and authorization to changes to an existing plan	iepPlanCommonAuthorizationType

Table A.271-1: iepPlanAmendmentListAmendmentType

A.272 iepPlanAmendmentListType

History List of Amendments to IEP



Figure A.272-1: iepPlanAmendmentListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAmendmentListType			History List of Amendments to IEP	
amendment	OR			iepPlanAmendmentListAmendmentType

Table A.272-1: iepPlanAmendmentListType

A.273 iepPlanAnnualGoalCoursesListCourseType

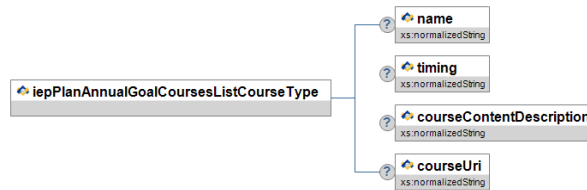


Figure A.273-1: iepPlanAnnualGoalCoursesListCourseType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalCoursesListCourseType				
name	O		Reason that student did not participate in this service.	xs:normalizedString
timing	O		The planned year or other description of the student's taking the course.	xs:normalizedString
courseContentDescription	O		Description of content of the course.	xs:normalizedString
courseUri	O		The Uniform Resource Locator (URL) location of information about course content.	xs:normalizedString

Table A.273-1: iepPlanAnnualGoalCoursesListCourseType

A.274 iepPlanAnnualGoalCoursesListType

List of courses that will be made available to the student to help achieving the goal

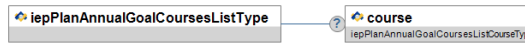


Figure A.274-1: iepPlanAnnualGoalCoursesListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalCoursesListType			List of courses that will be made available to the student to help achieving the goal	
course	O			iepPlanAnnualGoalCoursesListCourseType

Table A.274-1: iepPlanAnnualGoalCoursesListType

A.275 iepPlanAnnualGoalGoalStandardsReferenceType

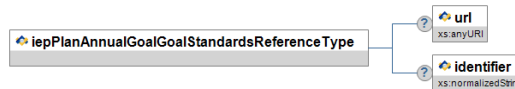


Figure A.275-1: iepPlanAnnualGoalGoalStandardsReferenceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalGoalStandardsReferenceType				
uri	O	000874 https://ceds.ed.gov/element/000874	A network-resolvable Uniform Resource Locator (URL) pointing to the authoritative reference for the competency framework item	xs:anyURI
identifier	O	000692 https://ceds.ed.gov/element/000692	A human-referenceable code designated by the publisher to identify the item in the hierarchy of competency framework items.	xs:normalizedString

Table A.275-1: iepPlanAnnualGoalGoalStandardsReferenceType

A.276 iepPlanAnnualGoalGoalType

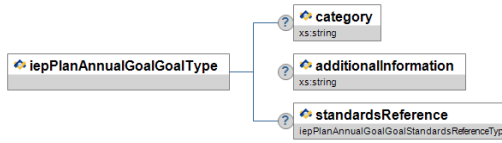


Figure A.276-1: iepPlanAnnualGoalGoalType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalGoalType				
category	O	001698 https://ceds.ed.gov/element/001698	Legal category for an IEP annual goal or short-term objectives.	xs:string
additionalInformation	O		Additional information about goal or why it fits this category.	xs:string
standardsReference	O			iepPlanAnnualGoalGoalStandardsReferenceType

Table A.276-1: iepPlanAnnualGoalGoalType

A.277 iepPlanAnnualGoalIndependentActionsListType

Activities or actions to be accomplished outside of a service context

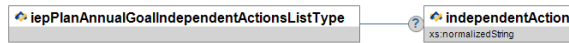


Figure A.277-1: iepPlanAnnualGoalIndependentActionsListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalIndependentActionsListType			Activities or actions to be accomplished outside of a service context	
independentAction	O		Activity or action to be accomplished outside of a service context	xs:normalizedString

Table A.277-1: iepPlanAnnualGoalIndependentActionsListType

A.278 iepPlanAnnualGoalListParentAcceptanceType



Figure A.278-1: iepPlanAnnualGoalListParentAcceptanceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalListParentAcceptanceType				
accepted	O	001721 https://ceds.ed.gov/element/001721	Indicates authorizer agreement to a document or plan, such as plan for delivery of student services, program, or improvement plan.	xs:string
explanation	O	001722 https://ceds.ed.gov/element/001722	Authorizer's explanation regarding the authorization decision.	xs:normalizedString

Table A.278-1: iepPlanAnnualGoalListParentAcceptanceType

A.279 iepPlanAnnualGoalListType

List of goals to be sought for a special education student

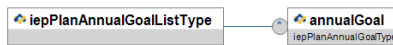


Figure A.279-1: iepPlanAnnualGoalListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalListType			List of goals to be sought for a special education student	
annualGoal	OR			iepPlanAnnualGoalType

Table A.279-1: iepPlanAnnualGoalListType

A.280 iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorIdentityType

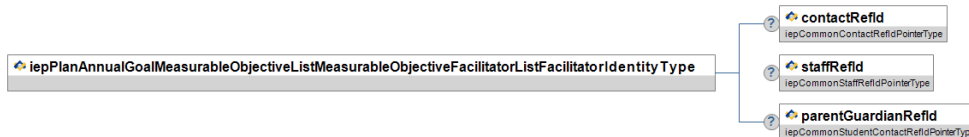


Figure A.280-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorIdentityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorIdentityType				
contactRefId	O		Pointer to xContact object when facilitator is a contact	iepCommonContactRefIdPointerType
staffRefId	O		Pointer to xStaff object when facilitator is a staff member	iepCommonStaffRefIdPointerType
parentGuardianRefId	O		Pointer to studentContacts xContact object when facilitator is a studentContact	iepCommonStudentContactRefIdPointerType

Table A.280-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorIdentityType

A.281 iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorType

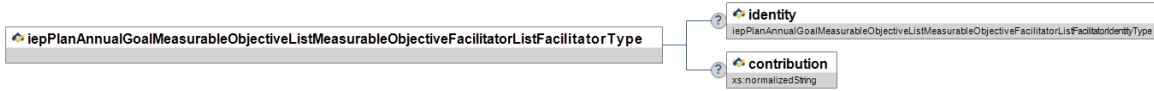


Figure A.281-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorType				
identity	O		Facilitator Identity	iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorIdentityType
contribution	O		The help this facilitator is asked to contribute to the achievement of this objective	xs:normalizedString

Table A.281-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorType

A.282 iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListType

List of people who will help the student achieve this goal

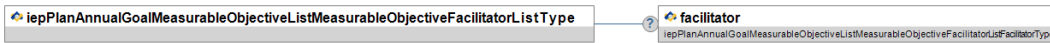


Figure A.282-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListType				
facilitator	O		List of people who will help the student achieve this goal	iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListFacilitatorType

Table A.282-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListType

A.283 iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionMetricType

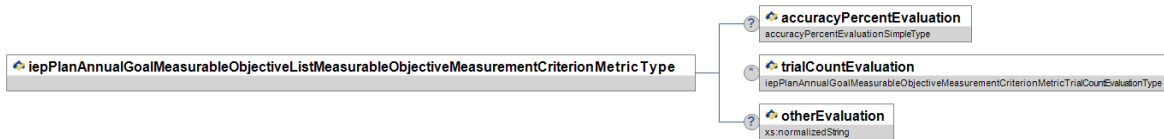


Figure A.283-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionMetricType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionMetricType				
accuracyPercentEvaluation	O	001691 https://ceds.ed.gov/element/001691	The percent of correct results that will be considered to represent successful achievement of a goal.	accuracyPercentEvaluationSimpleType
trialCountEvaluation	OR			iepPlanAnnualGoalMeasurableObjectiveMeasurementCriterionMetricTrialCountEvaluationType
otherEvaluation	O		Description of other specific success measurement method	xs:normalizedString

Table A.283-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionMetricType

A.284 iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionType



Figure A.284-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionType				
description	O	001695 https://ceds.ed.gov/element/001695	The procedures and/or instruments that will be used to measure achievement of a goal or short-term objective.	xs:normalizedString
metric	OR			iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionMetricType

Table A.284-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionType

A.285 iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementType

Definition of the way we will know the student has achieved the goal



Figure A.285-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementType				
criterion	O		Definition of the way we will know the student has achieved the goal	iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementCriterionType

Table A.285-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementType

A.286 iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveType

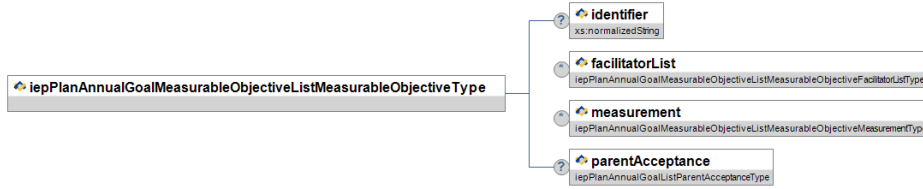


Figure A.286-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveType				
identifier	O	000692 https://ceds.ed.gov/element/000692	A human-referenceable code designated by the publisher to identify the item in the hierarchy of competency framework items.	xs:normalizedString
facilitatorList	OR			iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveFacilitatorListType
measurement	OR			iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveMeasurementType
parentAcceptance	O		Parental agreement (or disagreement) with judging objective based on specified criterion	iepPlanAnnualGoalListParentAcceptanceType

Table A.286-1: iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveType

A.287 iepPlanAnnualGoalMeasurableObjectiveListType

Objectives that will be achieved in the pursuit of this goal

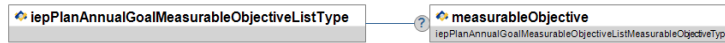


Figure A.287-1: iepPlanAnnualGoalMeasurableObjectiveListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalMeasurableObjectiveListType			Objectives that will be achieved in the pursuit of this goal	
measurableObjective	O			iepPlanAnnualGoalMeasurableObjectiveListMeasurableObjectiveType

Table A.287-1: iepPlanAnnualGoalMeasurableObjectiveListType

A.288 iepPlanAnnualGoalMeasurableObjectiveMeasurementCriterionMetricTrialCountEvaluationType

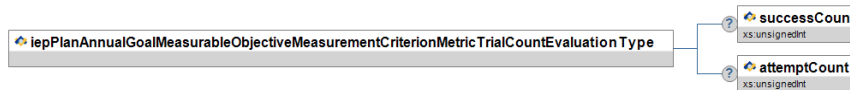


Figure A.288-1: iepPlanAnnualGoalMeasurableObjectiveMeasurementCriterionMetricTrialCountEvaluationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalMeasurableObjectiveMeasurementCriterionMetricTrialCountEvaluationType				
successCount	O	001694 https://ceds.ed.gov/element/001694	The number of correct results that will be considered to represent successful achievement of a goal.	xs:unsignedInt
attemptCount	O	001692 https://ceds.ed.gov/element/001692	The number of attempts representing a completed trial for assessing achievement of a goal.	xs:unsignedInt

Table A.288-1: iepPlanAnnualGoalMeasurableObjectiveMeasurementCriterionMetricTrialCountEvaluationType

A.289 iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataNamesType



Figure A.289-1: iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataNamesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataNamesType				
categoryName	O		Label that assigns meaning to the categories that were measured (eg. x-axis label)	xs:normalizedString
valueName	O		Label that assigns meaning to a chart display of a measured value (eg. y-axis label)	xs:normalizedString

Table A.289-1: iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataNamesType

A.290 iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListDataValueType

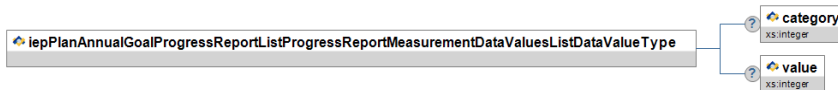


Figure A.290-1: iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListDataValueType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListDataValueType				
category	O		Thing being measured	xs:integer
value	O		Measurement	xs:integer

Table A.290-1: iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListDataValueType

A.291 iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListType

Data pairs representing measurements of student performance relative to progress on this goal



Figure A.291-1: iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListType			Data pairs representing measurements of student performance relative to progress on this goal	
dataValue	O			iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListDataValueType

Table A.291-1: iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListType

A.292 iepPlanAnnualGoalProgressReportListProgressReportMeasurementType

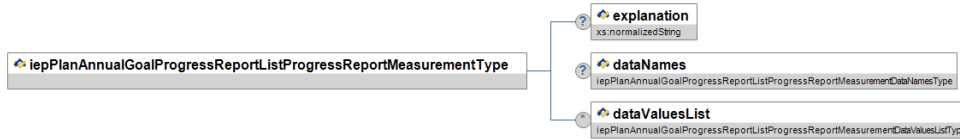


Figure A.292-1: iepPlanAnnualGoalProgressReportListProgressReportMeasurementType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalProgressReportListProgressReportMeasurementType				
explanation	O		Explanation of measurement process and importance of data that was measured.	xs:normalizedString
dataNames	O			iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataNamesType
dataValuesList	OR			iepPlanAnnualGoalProgressReportListProgressReportMeasurementDataValuesListType

Table A.292-1: iepPlanAnnualGoalProgressReportListProgressReportMeasurementType

A.293 iepPlanAnnualGoalProgressReportListProgressReportType

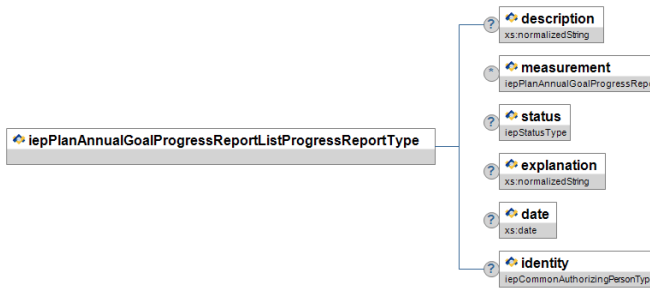


Figure A.293-1: iepPlanAnnualGoalProgressReportListProgressReportType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalProgressReportListProgressReportType				
description	O	001700 https://ceds.ed.gov/element/001700	A description of the progress made toward achievement of the student's progress on annual goals and if the progress is sufficient to achieve the goals by the end of the individualized program service plan.	xs:normalizedString
measurement	OR			iepPlanAnnualGoalProgressReportListProgressReportMeasurementType
status	O	001702 https://ceds.ed.gov/element/001702	Status toward achievement of the annual goal or short-term objectives.	iepStatusType values: SatisfactoryProgress UnsatisfactoryProgress Completed Other
explanation	O		Explanation for choice of other or information refining status determination.	xs:normalizedString
date	O	001699 https://ceds.ed.gov/element/001699	The date parents are notified of the student's progress on annual goals and if the progress is sufficient to achieve the goals by the end of the individualized program service plan.	xs:date
identity	O		Identity of Person Making the Report	iepCommonAuthorizingPersonType

Table A.293-1: iepPlanAnnualGoalProgressReportListProgressReportType

A.294 iepPlanAnnualGoalProgressReportListType

Overall progress toward achievement of the goal

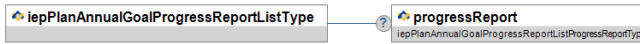


Figure A.294.1: iepPlanAnnualGoalProgressReportListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalProgressReportListType			Overall progress toward achievement of the goal.	
progressReport	O			iepPlanAnnualGoalProgressReportListProgressReportType

Table A.294.1: iepPlanAnnualGoalProgressReportListType

A.295 iepPlanAnnualGoalServicesListServiceFrequencyCycleType



Figure A.295.1: iepPlanAnnualGoalServicesListServiceFrequencyCycleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalServicesListServiceFrequencyCycleType				
count	O		The number of service events in a service repetition period.	xs:integer
period	O		The period in which the service events must be repeated.	iepPeriodType values: day week month quarter year school_year

Table A.295.1: iepPlanAnnualGoalServicesListServiceFrequencyCycleType

A.296 iepPlanAnnualGoalServicesListServiceFrequencyDurationType

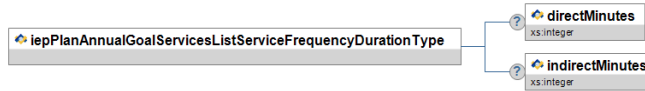


Figure A.296.1: iepPlanAnnualGoalServicesListServiceFrequencyDurationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalServicesListServiceFrequencyDurationType				
directMinutes	O		Time spent directly with the student.	xs:integer
indirectMinutes	O		Service provider time spent on other service activities that are not with the student.	xs:integer

Table A.296.1: iepPlanAnnualGoalServicesListServiceFrequencyDurationType

A.297 iepPlanAnnualGoalServicesListServiceFrequencyType

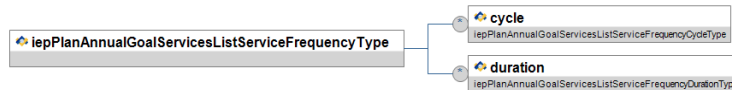


Figure A.297.1: iepPlanAnnualGoalServicesListServiceFrequencyType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalServicesListServiceFrequencyType				
cycle	OR			iepPlanAnnualGoalServicesListServiceFrequencyCycleType
duration	OR			iepPlanAnnualGoalServicesListServiceFrequencyDurationType

Table A.297.1: iepPlanAnnualGoalServicesListServiceFrequencyType

A.298 iepPlanAnnualGoalServicesListServiceType

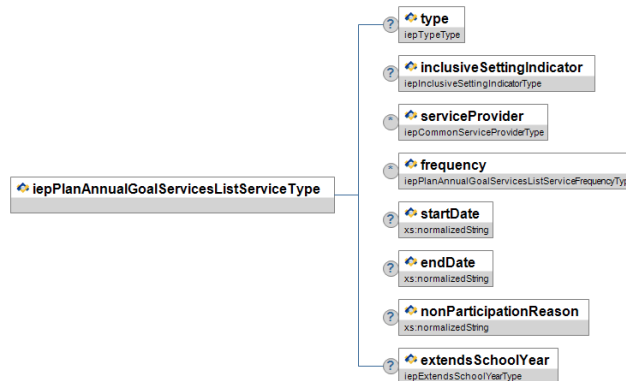


Figure A.298.1: iepPlanAnnualGoalServicesListServiceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalServicesListServiceType				
type	O	000273 https://ceds.ed.gov/element/000273	Type of related or ancillary services provided to a person or a group of persons within the formal educational system or offered by an outside agency which provides non-instructional services to support the general welfare of students. This includes physical and emotional health, the ability to select an appropriate course of study, admission to appropriate educational programs, and the ability to adjust to and remain in school through the completion of programs. In serving a student with an identified disability, related services include developmental, corrective, or supportive services required to ensure that the person benefits from special education.	iepTypeType values: Academic Achievement Developmental Motor Functional Behavior Adaptive Behavior Transition Vocational Communication Hearing Vision Orientation and Mobility Medical Language Speech Cognitive Social/Emotional Other
inclusiveSettingIndicator	O	001634 https://ceds.ed.gov/element/001634	Indicates that services are provided to the child in a place where children of all abilities learn together.	iepInclusiveSettingIndicatorType values: Yes No
serviceProvider	OR			iepCommonServiceProviderType
frequency	OR			iepPlanAnnualGoalServicesListServiceFrequencyType
startDate	O	001165 https://ceds.ed.gov/element/001165	The date on which the goal becomes active.	xsnormalizedString
endDate	O	001166 https://ceds.ed.gov/element/001166	The date on which the goal expires or has been achieved.	xsnormalizedString
nonParticipationReason	O	001488 https://ceds.ed.gov/element/001488	The reason given for declining the recommended services.	xsnormalizedString
extendsSchoolYear	O	001717 https://ceds.ed.gov/element/001717	Determination if this service continues outside school year.	iepExtendsSchoolYearType values: Yes No

Table A.298-1: iepPlanAnnualGoalServicesListServiceType

A.299 iepPlanAnnualGoalServicesListType

List of supporting resources required for student to achieve a goal



Figure A.299-1: iepPlanAnnualGoalServicesListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalServicesListType			List of supporting resources required for student to achieve a goal	
service	O			iepPlanAnnualGoalServicesListServiceType

Table A.299-1: iepPlanAnnualGoalServicesListType

A.300 iepPlanAnnualGoalType

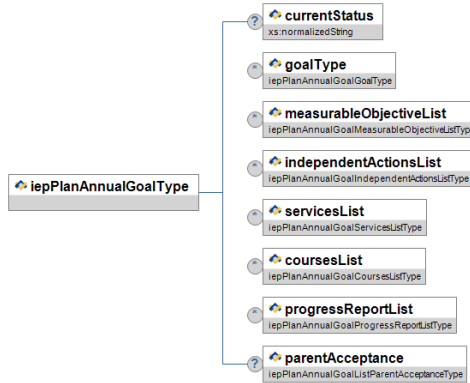


Figure A.300-1: iepPlanAnnualGoalType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanAnnualGoalType				
currentStatus	O	001703 https://ceds.ed.gov/element/001703	Description of status toward achievement of the annual goal or short-term objectives.	xsnormalizedString
goalType	OR			iepPlanAnnualGoalGoalType
measurableObjectiveList	OR			iepPlanAnnualGoalMeasurableObjectiveListType
independentActionsList	OR			iepPlanAnnualGoalIndependentActionsListType
servicesList	OR			iepPlanAnnualGoalServicesListType
coursesList	OR			iepPlanAnnualGoalCoursesListType
progressReportList	OR			iepPlanAnnualGoalProgressReportListType
parentAcceptance	O		Parental agreement (or disagreement) with working toward this goal	iepPlanAnnualGoalListParentAcceptanceType

Table A.300-1: iepPlanAnnualGoalType

A.301 iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElementsRejectedDetailListType



Figure A.301-1: iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElementsRejectedDetailListType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElementsRejectedDetailListType				
description	O	001723 https://ceds.ed.gov/element/001723	Portion the authorizer does not want executed.	xs:normalizedString
explanation	O	001724 https://ceds.ed.gov/element/001724	Authorizer's explanation for rejected portions.	xs:normalizedString

Table A.301-1: iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElementsRejectedDetailListType

A.302 iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElements Type



Figure A.302-1: iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElements Type

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElements Type				
rejectedDetailList	OR			iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElementsRejectedDetailListType
explanation	O		Parent/guardian explanation of perspective of rejection not specific to an element	xs:normalizedString

Table A.302-1: iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElements Type

A.303 iepPlanCommonAuthorizationParentGuardianAuthorization Type

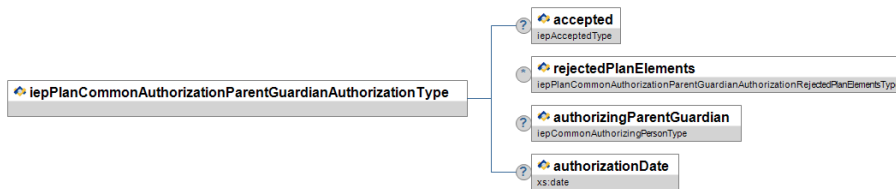


Figure A.303-1: iepPlanCommonAuthorizationParentGuardianAuthorization Type

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanCommonAuthorizationParentGuardianAuthorization Type				
accepted	O	001721 https://ceds.ed.gov/element/001721	Indicates authorizer agreement to a document or plan, such as plan for delivery of student services, program, or improvement plan.	iepAcceptedType values: Yes No
rejectedPlanElements	OR			iepPlanCommonAuthorizationParentGuardianAuthorizationRejectedPlanElements Type
authorizingParentGuardian	O		Proved identity of authorizing parent or guardian	iepCommonAuthorizingPersonType
authorizationDate	O	001725 https://ceds.ed.gov/element/001725	The date the authorization occurred.	xs:date

Table A.303-1: iepPlanCommonAuthorizationParentGuardianAuthorization Type

A.304 iepPlanCommonAuthorization Type

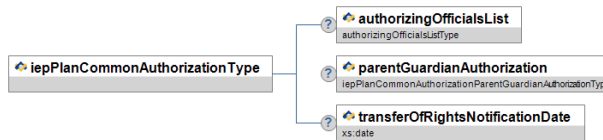


Figure A.304-1: iepPlanCommonAuthorization Type

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanCommonAuthorization Type				
authorizingOfficialsList	O			authorizingOfficialsListType
parentGuardianAuthorization	O			iepPlanCommonAuthorizationParentGuardianAuthorizationType
transferOfRightsNotificationDate	O		Date that student over seventeen years old was notified of his or her right to sign IEP.	xs:date

Table A.304-1: iepPlanCommonAuthorization Type

A.305 iepPlanEnrollmentGradeLevelType

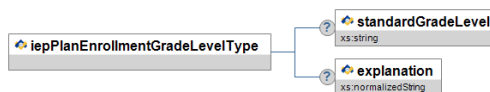


Figure A.305-1: iepPlanEnrollmentGradeLevelType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanEnrollmentGradeLevelType				
standardGradeLevel	O	000100 https://ceds.ed.gov/element/000100	Grade level at beginning of the IEP effective period	xs:string
explanation	O		Explanation for choice of other or information refining grade level selection.	xs:normalizedString

Table A.305-1: iepPlanEnrollmentGradeLevelType

A.306 iepPlanPlacementLeastRestrictiveEnvironmentType

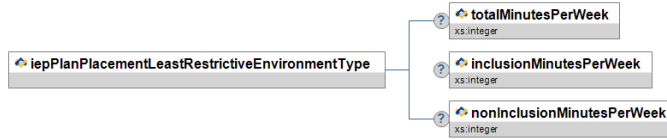


Figure A.306-1: iepPlanPlacementLeastRestrictiveEnvironmentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPlacementLeastRestrictiveEnvironmentType				
totalMinutesPerWeek	O		Total number of special education minutes per week	xs:integer
inclusionMinutesPerWeek	O	001234 https://ceds.ed.gov/element/001234	The number of minutes per week that a student with disabilities is served in a special education setting separate from his or her non-disabled peers.	xs:integer
nonInclusionMinutesPerWeek	O	001233 https://ceds.ed.gov/element/001233	The number of minutes per week that a student with disabilities is served in a regular classroom with his or her non-disabled peers.	xs:integer

Table A.306-1: iepPlanPlacementLeastRestrictiveEnvironmentType

A.307 iepPlanPlacementScheduleModificationSchoolDayType

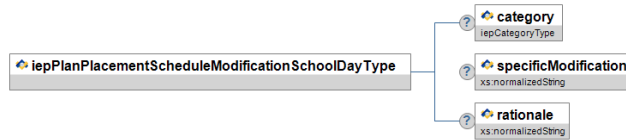


Figure A.307-1: iepPlanPlacementScheduleModificationSchoolDayType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPlacementScheduleModificationSchoolDayType				
category	O		Brief characterization of main change	iepCategoryType values: IndependentLiving Post-secondary Workshop/Workshop Workshop/Workshop
specificModification	O		Explanation of exactly what change is needed	xs:normalizedString
rationale	O		Reason that the changes are needed	xs:normalizedString

Table A.307-1: iepPlanPlacementScheduleModificationSchoolDayType

A.308 iepPlanPlacementScheduleModificationSchoolYearType

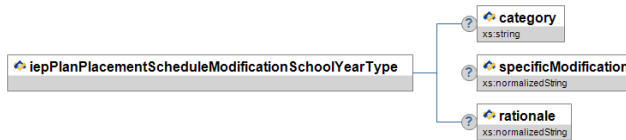


Figure A.308-1: iepPlanPlacementScheduleModificationSchoolYearType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPlacementScheduleModificationSchoolYearType				
category	O		Brief characterization of main change	xs:string
specificModification	O		Explanation of exactly what change is needed	xs:normalizedString
rationale	O		Reason that the changes are needed	xs:normalizedString

Table A.308-1: iepPlanPlacementScheduleModificationSchoolYearType

A.309 iepPlanPlacementScheduleModificationType

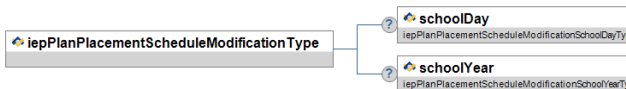


Figure A.309-1: iepPlanPlacementScheduleModificationType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPlacementScheduleModificationType				
schoolDay	O			iepPlanPlacementScheduleModificationSchoolDayType
schoolYear	O			iepPlanPlacementScheduleModificationSchoolYearType

Table A.309-1: iepPlanPlacementScheduleModificationType

A.310 iepPlanPlacementTransportationInsideSchoolType

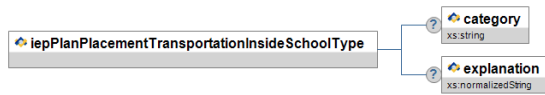


Figure A.310-1: iepPlanPlacementTransportationInsideSchoolType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPlacementTransportationInsideSchoolType				
category	O		Annotation of whether special transportation is needed	xs:string
explanation	O		Explanation of the particular accommodation(s) needed	xs:normalizedString

Table A.310-1: iepPlanPlacementTransportationInsideSchoolType

A.311 iepPlanPlacementTransportationOutsideSchoolType

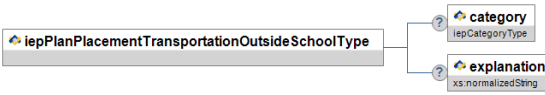


Figure A.311-1: iepPlanPlacementTransportationOutsideSchoolType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPlacementTransportationOutsideSchoolType				
category	O		Annotation of whether special transportation is needed	iepCategoryType values: IndependentLiving Post-secondary WorkingEnvironment
explanation	O		Explanation of the particular accommodation(s) needed	xs:normalizedString

Table A.311-1: iepPlanPlacementTransportationOutsideSchoolType

A.312 iepPlanPlacementTransportationType

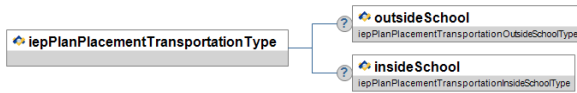


Figure A.312-1: iepPlanPlacementTransportationType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPlacementTransportationType				
outsideSchool	O			iepPlanPlacementTransportationOutsideSchoolType
insideSchool	O			iepPlanPlacementTransportationInsideSchoolType

Table A.312-1: iepPlanPlacementTransportationType

A.313 iepPlanPlacementType

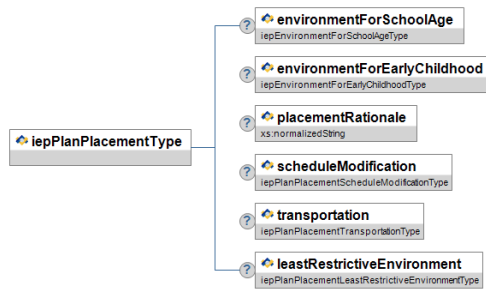


Figure A.313-1: iepPlanPlacementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPlacementType				
environmentForSchoolAge	O	000535 https://ceds.ed.gov/element/000535	The setting in which children ages 6 through 21, receive special education and related services.	iepEnvironmentForSchoolAgeType values: RCR0 RCT9FD040 RC39 RS RF RH CF P2P2
environmentForEarlyChildhood	O	000559 https://ceds.ed.gov/element/000559	The program in which children ages 3 through 5 attend and in which these children receive special education and related services.	iepEnvironmentForEarlyChildhoodType values: RBC0990FBLOC RBC1410FBLOC RBC0991BVCS RBC1410BVCS BC RS RF R SPL
placementRationale	O	001704 https://ceds.ed.gov/element/001704	The rationale for the placement decision and if applicable, an explanation of the extent, if any, to which the child will not participate with nondisabled children in the regular class and in the activities described in paragraph (a)(4) of CFR, §300.320.	xs:normalizedString
scheduleModification	O			iepPlanPlacementScheduleModificationType
transportation	O			iepPlanPlacementTransportationType
leastRestrictiveEnvironment	O			iepPlanPlacementLeastRestrictiveEnvironmentType

Table A.313-1: iepPlanPlacementType

A.314 iepPlanPresentLevelPerformanceAcademicDeficitListDeficitType

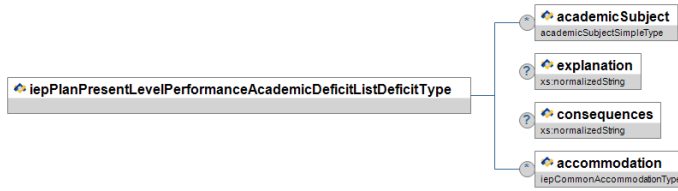


Figure A.314-1: iepPlanPresentLevelPerformanceAcademicDeficitListDeficitType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceAcademicDeficitListDeficitType				
academicSubject	OR	001518 https://ceds.ed.gov/element/001518	Academic subject affected by this issue	academicSubjectSimpleType values: 01 02 03 04 05 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
explanation	O		The nature of the disability contributing to this deficit relative to standards	xs:normalizedString
consequences	O		The particular ways that the disability interferes with academic attainment	xs:normalizedString
accommodation	OR			iepCommonAccommodationType

Table A.314-1: iepPlanPresentLevelPerformanceAcademicDeficitListDeficitType

A.315 iepPlanPresentLevelPerformanceAcademicDeficitListType

List of issues where student is unable to meet relevant academic standards

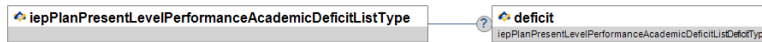


Figure A.315-1: iepPlanPresentLevelPerformanceAcademicDeficitListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceAcademicDeficitListType			List of issues where student is unable to meet relevant academic standards	
deficit	O			iepPlanPresentLevelPerformanceAcademicDeficitListDeficitType

Table A.315-1: iepPlanPresentLevelPerformanceAcademicDeficitListType

A.316 iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListAccommodationType

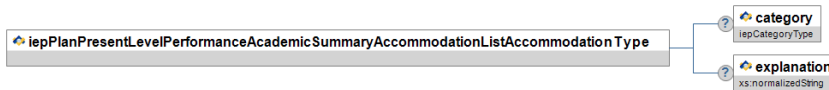


Figure A.316-1: iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListAccommodationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListAccommodationType				
category	O		Current accommodation Category	iepCategoryType values: IndependentLiving Post-secondary WorkingEnvironment
explanation	O		Description of specific accommodation or change made to environment	xs:normalizedString

Table A.316-1: iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListAccommodationType

A.317 iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListType

List of current accommodations



Figure A.317-1: iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListType			List of current accommodations	
accommodation	OR			iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListAccommodationType

Table A.317-1: iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListType

A.318 iepPlanPresentLevelPerformanceAcademicSummaryType

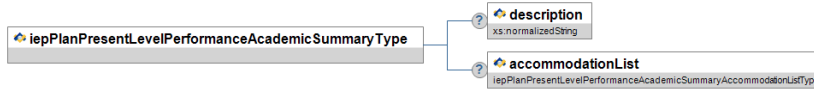


Figure A.318-1: iepPlanPresentLevelPerformanceAcademicSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceAcademicSummaryType				
description	O	001705 https://ceds.ed.gov/element/001705	How the child's disability affects the child's academic achievement.	xs:normalizedString
accommodationList	O			iepPlanPresentLevelPerformanceAcademicSummaryAccommodationListType

Table A.318-1: iepPlanPresentLevelPerformanceAcademicSummaryType

A.319 iepPlanPresentLevelPerformanceAcademicType

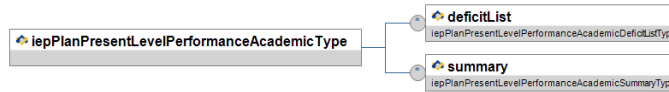


Figure A.319-1: iepPlanPresentLevelPerformanceAcademicType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceAcademicType				
deficitList	OR			iepPlanPresentLevelPerformanceAcademicDeficitListType
summary	OR			iepPlanPresentLevelPerformanceAcademicSummaryType

Table A.319-1: iepPlanPresentLevelPerformanceAcademicType

A.320 iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListSpecialCategoryType



Figure A.320-1: iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListSpecialCategoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListSpecialCategoryType				
programType	O	000320 https://ceds.ed.gov/element/000320	A designation of the type of program developed for a student.	iepProgramTypeType values: 05978 89600 05980 02196 02198 02197 05982 02349 05981 05979 09999
explanation	O		Reason student is included in this category	xs:normalizedString

Table A.320-1: iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListSpecialCategoryType

A.321 iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListType

Special categories applying to this plan

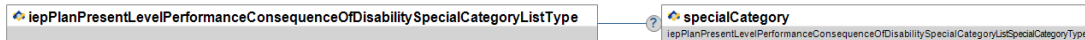


Figure A.321-1: iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListType			Special categories applying to this plan	
specialCategory	O			iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListSpecialCategoryType

Table A.321-1: iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListType

A.322 iepPlanPresentLevelPerformanceConsequenceOfDisabilityType

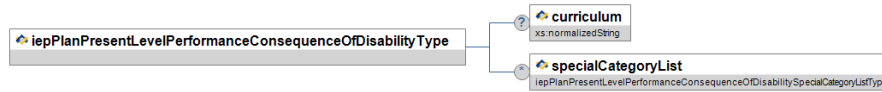


Figure A.322-1: iepPlanPresentLevelPerformanceConsequenceOfDisabilityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceConsequenceOfDisabilityType				
curriculum	O			xs:normalizedString
specialCategoryList	OR			iepPlanPresentLevelPerformanceConsequenceOfDisabilitySpecialCategoryListType

Table A.322-1: iepPlanPresentLevelPerformanceConsequenceOfDisabilityType

A.323 iepPlanPresentLevelPerformanceFunctionalDisabilityListDisabilityType



Figure A.323-1: iepPlanPresentLevelPerformanceFunctionalDisabilityListDisabilityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceFunctionalDisabilityListDisabilityType				
disabilityCodeList	OR		Categories of Disability Under IDEA	xDisabilityType
explanation	O		Explanation or information refining disability selection.	xs:normalizedString
consequences	O		Analysis of the particular ways that the disability interferes with educational attainment	xs:normalizedString
accommodation	OR			iepCommonAccommodationType

Table A.323-1: iepPlanPresentLevelPerformanceFunctionalDisabilityListDisabilityType

A.324 iepPlanPresentLevelPerformanceFunctionalDisabilityListType

Information about the child's ability to operate in a classroom or other learning setting

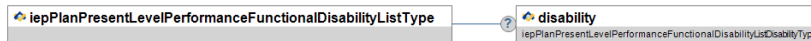


Figure A.324-1: iepPlanPresentLevelPerformanceFunctionalDisabilityListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceFunctionalDisabilityListType			Information about the child's ability to operate in a classroom or other learning setting	
disability	O			iepPlanPresentLevelPerformanceFunctionalDisabilityListDisabilityType

Table A.324-1: iepPlanPresentLevelPerformanceFunctionalDisabilityListType

A.325 iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListAccommodationType

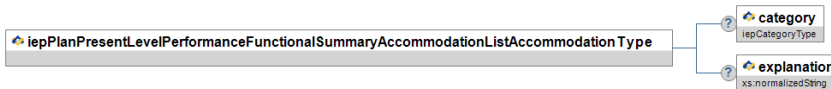


Figure A.325-1: iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListAccommodationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListAccommodationType				
category	O		Current accommodation Category	iepCategoryType values: IndependentLiving Post-secondary WorkingEnvironment
explanation	O		Description of specific accommodation or change made to environment	xs:normalizedString

Table A.325-1: iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListAccommodationType

A.326 iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListType

List of current accommodations

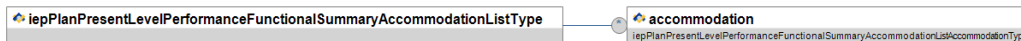


Figure A.326-1: iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListType			List of current accommodations	
accommodation	OR			iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListAccommodationType

Table A.326-1: iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListType

A.327 iepPlanPresentLevelPerformanceFunctionalSummaryType

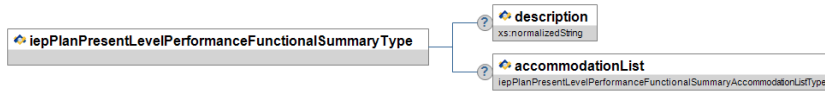


Figure A.327-1: iepPlanPresentLevelPerformanceFunctionalSummaryType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceFunctionalSummaryType				
description	O	001706 https://ceds.ed.gov/element/001706	How the child's disability affects the child's functional performance.	xs.normalizedString
accommodationList	O			iepPlanPresentLevelPerformanceFunctionalSummaryAccommodationListType

Table A.327-1: iepPlanPresentLevelPerformanceFunctionalSummaryType

A.328 iepPlanPresentLevelPerformanceFunctionalType

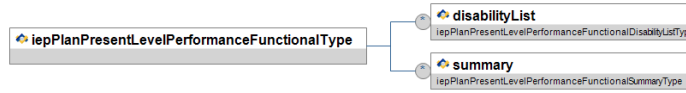


Figure A.328-1: iepPlanPresentLevelPerformanceFunctionalType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceFunctionalType				
disabilityList	OR			iepPlanPresentLevelPerformanceFunctionalDisabilityListType
summary	OR			iepPlanPresentLevelPerformanceFunctionalSummaryType

Table A.328-1: iepPlanPresentLevelPerformanceFunctionalType

A.329 iepPlanPresentLevelPerformancePersonalConcernsType

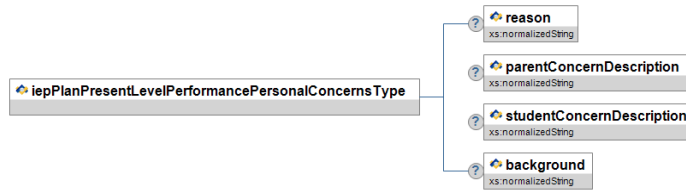


Figure A.329-1: iepPlanPresentLevelPerformancePersonalConcernsType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalConcernsType				
reason	O		Explanation of the primary reasons that an IEP should be developed	xs.normalizedString
parentConcernDescription	O	001710 https://ceds.ed.gov/element/001710	Parent's explanation of their interest in student's participation in special education	xs.normalizedString
studentConcernDescription	O	001711 https://ceds.ed.gov/element/001711	Student's explanation of his or her interest in participation in special education	xs.normalizedString
background	O		Other useful information	xs.normalizedString

Table A.329-1: iepPlanPresentLevelPerformancePersonalConcernsType

A.330 iepPlanPresentLevelPerformancePersonalEvaluationNeedsListType

Non-technical list of student's perceived educational special needs

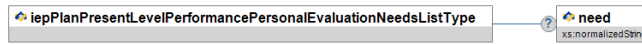


Figure A.330-1: iepPlanPresentLevelPerformancePersonalEvaluationNeedsListType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalEvaluationNeedsListType			Non-technical list of student's perceived educational special needs	
need	O		Characterization of a deficit, disability or problem.	xs.normalizedString

Table A.330-1: iepPlanPresentLevelPerformancePersonalEvaluationNeedsListType

A.331 iepPlanPresentLevelPerformancePersonalEvaluationPerformanceTestResultListType

Anecdotal list of previous testing and evaluation of student's performance

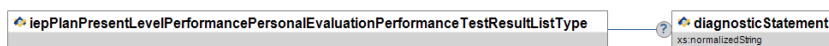


Figure A.331-1: iepPlanPresentLevelPerformancePersonalEvaluationPerformanceTestResultListType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalEvaluationPerformanceTestResultListType			Anecdotal list of previous testing and evaluation of student's performance	
diagnosticStatement	O	001219 https://ceds.ed.gov/element/001219	A statement intended for use by education professionals, using professional terminology, to interpret learner needs based on the scored/evaluated portion of an assessment. This statement may inform Descriptive Feedback given to the learner.	xs.normalizedString

Table A.331-1: iepPlanPresentLevelPerformancePersonalEvaluationPerformanceTestResultListType

A.332 iepPlanPresentLevelPerformancePersonalEvaluationPerformanceType

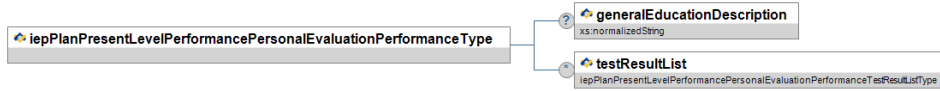


Figure A.332-1: iepPlanPresentLevelPerformancePersonalEvaluationPerformanceType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalEvaluationPerformanceType				
generalEducationDescription	O	001707 https://ceds.ed.gov/element/001707	How the child's disability affects the child's involvement and progress in the general education curriculum.	xs:normalizedString
testResultList	OR			iepPlanPresentLevelPerformancePersonalEvaluationPerformanceTestResultListType

Table A.332-1: iepPlanPresentLevelPerformancePersonalEvaluationPerformanceType

A.333 iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListPersonalGoalType

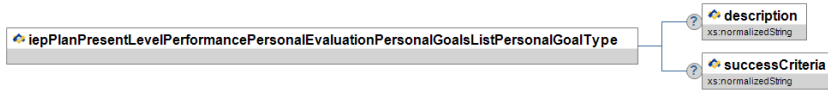


Figure A.333-1: iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListPersonalGoalType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListPersonalGoalType				
description	O	000903 https://ceds.ed.gov/element/000903	A statement that describes the desired outcomes.	xs:normalizedString
successCriteria	O	000902 https://ceds.ed.gov/element/000902	One or more statements that describes the criteria used by teachers and students to check for attainment of a goal.	xs:normalizedString

Table A.333-1: iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListPersonalGoalType

A.334 iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListType

List of goals that student wants to achieve

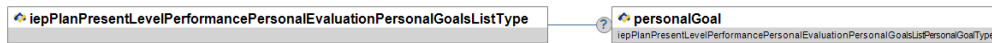


Figure A.334-1: iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListType			List of goals that student wants to achieve	
personalGoal	O			iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListPersonalGoalType

Table A.334-1: iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListType

A.335 iepPlanPresentLevelPerformancePersonalEvaluationType

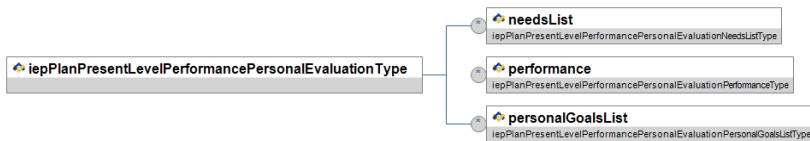


Figure A.335-1: iepPlanPresentLevelPerformancePersonalEvaluationType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalEvaluationType				
needsList	OR			iepPlanPresentLevelPerformancePersonalEvaluationNeedsListType
performance	OR			iepPlanPresentLevelPerformancePersonalEvaluationPerformanceType
personalGoalsList	OR			iepPlanPresentLevelPerformancePersonalEvaluationPersonalGoalsListType

Table A.335-1: iepPlanPresentLevelPerformancePersonalEvaluationType

A.336 iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListDesiredOutcomeType

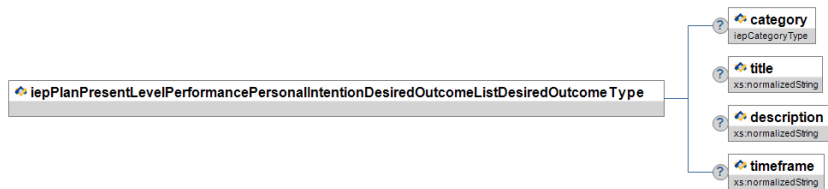


Figure A.336-1: iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListDesiredOutcomeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListDesiredOutcomeType				
category	O		Category of achievement	iepCategoryType values: IndependentLiving Post-secondary WorkInEnvironment xs:normalizedString
title	O		Brief characterization of achievement	xs:normalizedString
description	O		Specific details that would be recognized as successful achievement for this intention	xs:normalizedString
timeframe	O		Explanation of when this achievement should take place	xs:normalizedString

Table A.336-1: iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListDesiredOutcomeType

A.337 iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListType

List of specific life achievements desired by student



Figure A.337-1: iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListType			List of specific life achievements desired by student	
desiredOutcome	O			iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListDesiredOutcomeType

Table A.337-1: iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListType

A.338 iepPlanPresentLevelPerformancePersonalIntentionType

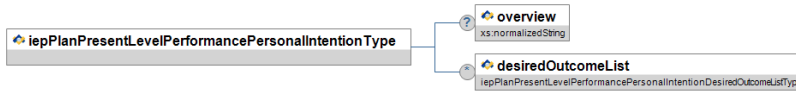


Figure A.338-1: iepPlanPresentLevelPerformancePersonalIntentionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalIntentionType				
overview	O		Explanation of what the student wants to accomplish in life	xs:normalizedString
desiredOutcomeList	OR			iepPlanPresentLevelPerformancePersonalIntentionDesiredOutcomeListType

Table A.338-1: iepPlanPresentLevelPerformancePersonalIntentionType

A.339 iepPlanPresentLevelPerformancePersonalType

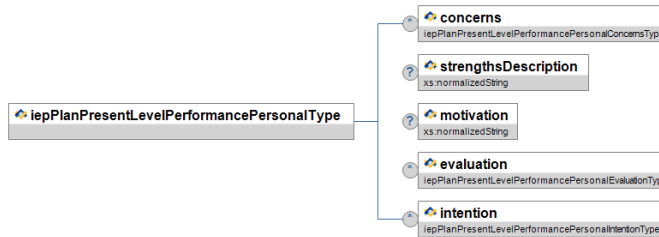


Figure A.339-1: iepPlanPresentLevelPerformancePersonalType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformancePersonalType				
concerns	OR			iepPlanPresentLevelPerformancePersonalConcernsType
strengthsDescription	O	001709 https://ceds.ed.gov/element/001709	Explanation of perceived strengths and abilities of the student	xs:normalizedString
motivation	O		Explanation of the goals and interests of the student	xs:normalizedString
evaluation	OR			iepPlanPresentLevelPerformancePersonalEvaluationType
intention	OR			iepPlanPresentLevelPerformancePersonalIntentionType

Table A.339-1: iepPlanPresentLevelPerformancePersonalType

A.340 iepPlanPresentLevelPerformanceType

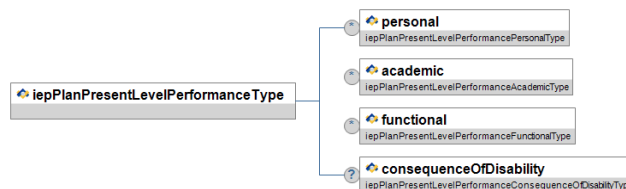


Figure A.340-1: iepPlanPresentLevelPerformanceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanPresentLevelPerformanceType				
personal	OR			iepPlanPresentLevelPerformancePersonalType
academic	OR			iepPlanPresentLevelPerformanceAcademicType
functional	OR			iepPlanPresentLevelPerformanceFunctionalType
consequenceOfDisability	O			iepPlanPresentLevelPerformanceConsequenceOfDisabilityType

Table A.340-1: iepPlanPresentLevelPerformanceType

A.341 iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationAchievementStandardType

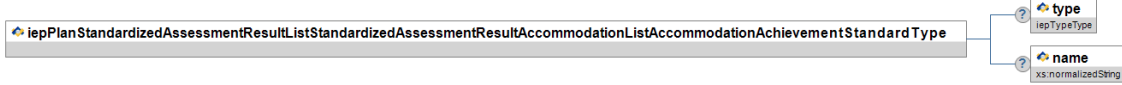


Figure A.341-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationAchievementStandardType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationAchievementStandardType				
type	O		Indicator if special standard is required	iepTypeType values: Academic Achievement Developmental Motor Functional Behavior Adaptive Behavior Transition Vocational Communication Hearing Vision Orientation and Mobility Medical Language Speech Cognitive Social/Emotional Other
name	O		Name of alternative standard	xs:normalizedString

Table A.341-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationAchievementStandardType

A.342 iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationType



Figure A.342-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationType				
accommodation	OR			iepCommonAccommodationType
location	O	000597 https://ceds.ed.gov/element/000597	The description of the place where an assessment is administered.	xs:string
category	O	000383 https://ceds.ed.gov/element/000383	A category of accommodations needed for a given assessment.	iepCategoryType values: Independent Living Post-secondary Working Environment
explanation	O		Explanation for choice of other or information refining category selection.	xs:normalizedString
achievementStandard	O			iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationAchievementStandardType

Table A.342-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationType

A.343 iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListType

List of accommodations needed by student to complete assessments

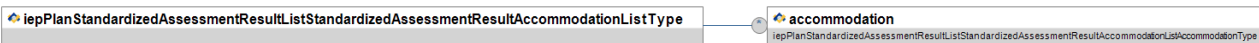


Figure A.343-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListType			List of accommodations needed by student to complete assessments	
accommodation	OR			iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListAccommodationType

Table A.343-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListType

A.344 iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultStandardsReferenceType

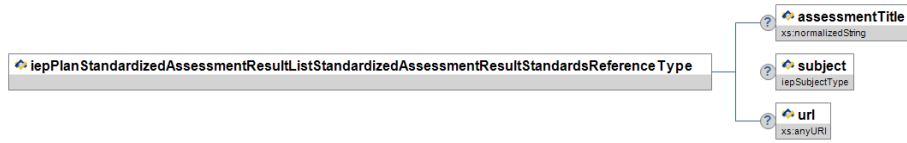


Figure A.344-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultStandardsReferenceType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultStandardsReferenceType				
assessmentTitle	O	000028 https://ceds.ed.gov/element/000028	The title or name of the assessment.	xs:normalizedString
subject	O		The topic category evaluated by this assessment	iepSubjectType values: Reading Math Sciences SocialStudies
url	O	001204 https://ceds.ed.gov/element/001204	The Uniform Resource Locator (URL) location of the external Assessment Asset content.	xs:anyURI

Table A.344-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultStandardsReferenceType

A.345 iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultType

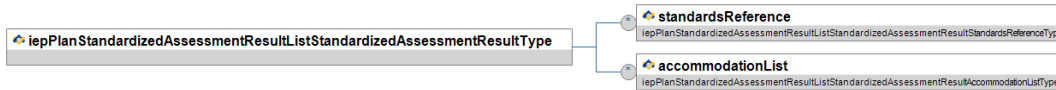


Figure A.345-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultType				
standardsReference	OR			iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultStandardsReferenceType
accommodationList	OR			iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultAccommodationListType

Table A.345-1: iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultType

A.346 iepPlanStandardizedAssessmentResultListType

Results of standardized assessments used to document current student performance



Figure A.346-1: iepPlanStandardizedAssessmentResultListType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanStandardizedAssessmentResultListType			Results of standardized assessments used to document current student performance	
standardizedAssessmentResult	OR			iepPlanStandardizedAssessmentResultListStandardizedAssessmentResultType

Table A.346-1: iepPlanStandardizedAssessmentResultListType

A.347 iepPlanType

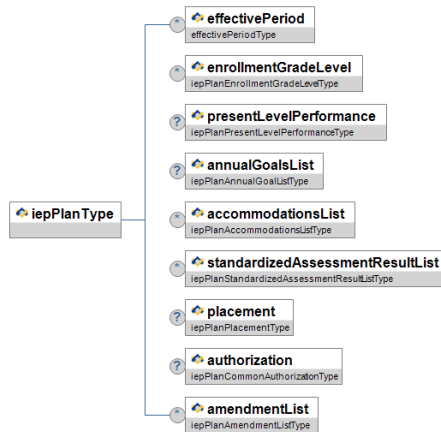


Figure A.347-1: iepPlanType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
iepPlanType				
effectivePeriod	OR			effectivePeriodType
enrollmentGradeLevel	OR			iepPlanEnrollmentGradeLevelType
presentLevelPerformance	O			iepPlanPresentLevelPerformanceType
annualGoalsList	O			iepPlanAnnualGoalsListType
accommodationsList	OR			iepPlanAccommodationsListType
standardizedAssessmentResultList	OR			iepPlanStandardizedAssessmentResultListType
placement	O			iepPlanPlacementType
authorization	O			iepPlanCommonAuthorizationType
amendmentList	OR			iepPlanAmendmentListType

Table A.347-1: iepPlanType

A.348 iepProgramTypeType

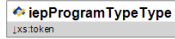


Figure A.348-1: iepProgramTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepProgramTypeType	O			values: 05978 05960 05969 02196 02196 02197 05982 02349 05981 05979 05959

Table A.348-1: iepProgramTypeType

A.349 iepRoleType

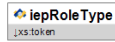


Figure A.349-1: iepRoleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepRoleType	O			values: PSYCH SOCIALWORK OCCURREAP AIDID PSYCHRES PSYCHRESAP PSYCHRESATE INTERPRET COUNSELOR ORIENTMOTIL MEDNURSE

Table A.349-1: iepRoleType

A.350 iepStandardPurposeType



Figure A.350-1: iepStandardPurposeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepStandardPurposeType	O			report service transfer

Table A.350-1: iepStandardPurposeType

A.351 iepStatusType



Figure A.351-1: iepStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepStatusType	O			values: NotSatisfactoryProgress SatisfactoryProgress Completed Other

Table A.351-1: iepStatusType

A.352 iepSubjectType



Figure A.352-1: iepSubjectType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepSubjectType	O			values: Reading Math Sciences SocialStudies

Table A.352-1: iepSubjectType

A.353 iepTransmitPermissionDestinationType



Figure A.353-1: iepTransmitPermissionDestinationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepTransmitPermissionDestinationType				
lea	O		Pointer to school district or other Local Educational Agency that needs access to IEP	iepCommonLeaRefIdPointerType
serviceProvider	O		Service provider that needs access to IEP	iepCommonServiceProviderType
other	O		Other person or organization (eg, court, prison, government) that needs access to IEP	iepCommonExternalPartyType

Table A.353-1: iepTransmitPermissionDestinationType

A.354 iepTransmitPermissionJustificationType

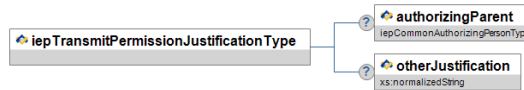


Figure A.354-1: iepTransmitPermissionJustificationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepTransmitPermissionJustificationType				
authorizingParent	O		Proved identity of parent giving transmit permission IEP	iepCommonAuthorizingPersonType
otherJustification	O		Explanation of reason other than parent authorization that permission was given to transmit IEP.	xs:normalizedString

Table A.354-1: iepTransmitPermissionJustificationType

A.355 iepTransmitPermissionListType

History List of Transmit Permissions

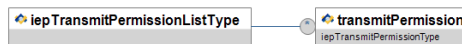


Figure A.355-1: iepTransmitPermissionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepTransmitPermissionListType			History List of Transmit Permissions	
transmitPermission	OR			iepTransmitPermissionType

Table A.355-1: iepTransmitPermissionListType

A.356 iepTransmitPermissionPurposeType

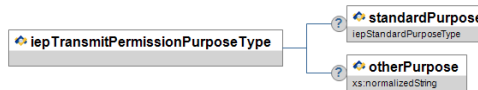


Figure A.356-1: iepTransmitPermissionPurposeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepTransmitPermissionPurposeType				
standardPurpose	O		Intended purpose for sending the IEP	iepStandardPurposeType values: report service transfer
otherPurpose	O		Intended purpose for sending IEP	xs:normalizedString

Table A.356-1: iepTransmitPermissionPurposeType

A.357 iepTransmitPermissionType

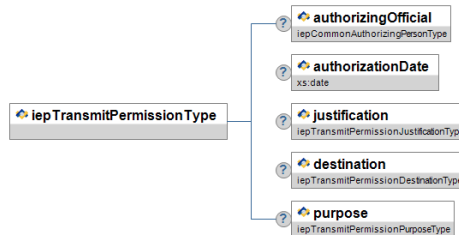


Figure A.357-1: iepTransmitPermissionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepTransmitPermissionType				
authorizingOfficial	O		Proved identity of official authorizing transmit permission IEP	iepCommonAuthorizingPersonType
authorizationDate	O		Date that transmit permission was given by authority	xs:date
justification	O			iepTransmitPermissionJustificationType
destination	O			iepTransmitPermissionDestinationType
purpose	O			iepTransmitPermissionPurposeType

Table A.357-1: iepTransmitPermissionType

A.358 iepTypeType

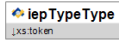


Figure A.358-1: iepTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
iepTypeType	O			values: Academic Achievement Developmental Motor Functional Behavior Adaptive Behavior Transition Vocational Communication Hearing Vision Orientation and Mobility Medical Language Speech Cognitive Social/Emotional Other

Table A.358-1: iepTypeType

A.359 ImmigrantType

Does the student meet the State criteria for classification as being an immigrant?



Figure A.359-1: ImmigrantType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ImmigrantType			Does the student meet the State criteria for classification as being an immigrant?	values: Yes No Unknown

Table A.359-1: ImmigrantType

JSON XML

```
<Immigrant>No</Immigrant>
```

Example A.359-1: ImmigrantType

A.360 IncidentActionListType

List of actions taken on the incident, regardless of actions relating to individual offenders.



Figure A.360-1: IncidentActionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IncidentActionListType	O		List of actions taken on the incident, regardless of actions relating to individual offenders.	List
IncidentAction	MR	000545 https://ceds.ed.gov/element/000545	Information regarding the action(s) taken in response to the incident.	IncidentActionType

Table A.360-1: IncidentActionListType

A.361 IncidentActionType

Information regarding the action(s) taken in response to the incident.

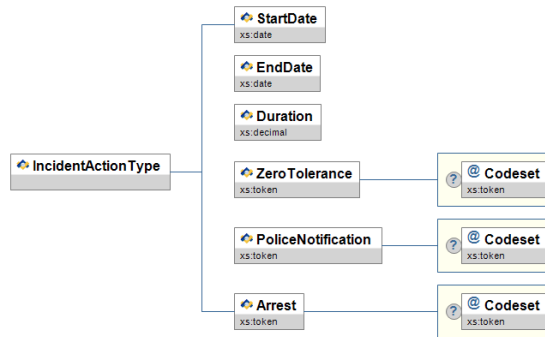


Figure A.361-1: IncidentActionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IncidentActionType	MR		Information regarding the action(s) taken in response to the incident.	
StartDate	M	000083 https://ceds.ed.gov/element/000083	The date on which the action begins.	xs:date
EndDate	M	000082 https://ceds.ed.gov/element/000082	The date through which the action is in effect, inclusive.	xs:date
Duration	M	000511 https://ceds.ed.gov/element/000511	Identifies the length, in school days, of the action. Note: decimal places may be used for fractions of school days.	xs:decimal
ZeroTolerance	M	000512 https://ceds.ed.gov/element/000512	Identifies whether or not this action was imposed as a consequence of state or local zero tolerance policies.	xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
PoliceNotification	M	000512 https://ceds.ed.gov/element/000512	Identifies whether there was notification of local law enforcement, regardless of whether official action was taken.	xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Arrest	M		Identifies whether there were any arrests.	xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean

Table A.361-1: IncidentActionType

A.362 IncidentCategoryContainerType

The category or description for this incident.

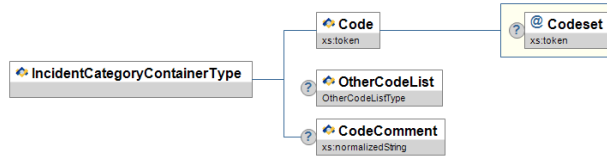


Figure A.362-1: IncidentCategoryContainerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IncidentCategoryContainerType	M		The category or description for this incident.	
Code	M		Identifies the type of incident being reported.	xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
OtherCodeList	O		List of other codes or strings that crosswalk to or serve as translations of the Code element. If Code changes and OtherCode elements are supported, both Code and all associated OtherCode elements must be present.	OtherCodeListType
CodeComment	O		A short comment clarifying the discipline code (e.g. for Nonsexual Harassment could detail "Racial comment, pushing, name-calling" or "Cell phone violation. Second offense.")	xs:normalizedString

Table A.362-1: IncidentCategoryContainerType

A.363 IncidentLocationType

The locally-defined identifier or description of the location where the incident occurred.



Figure A.363-1: IncidentLocationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IncidentLocationType	M		The locally-defined identifier or description of the location where the incident occurred.	xs:string
@ Type	M		Identifies where the incident occurred.	xs:boolean
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean

Table A.363-1: IncidentLocationType

A.364 IncidentReporterType

Information regarding the individual who reported the incident.

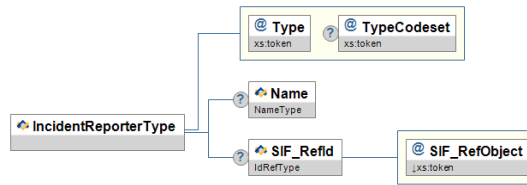


Figure A.364-1: IncidentReporterType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IncidentReporterType	M		Information regarding the individual who reported the incident.	
@ Type	M	000506 https://ceds.ed.gov/element/000506	Identifies the type of individual who reported the incident.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Name	O		The name of the individual reporting the incident.	NameType
SIF_RefId	O		GUID of the SIF object that relates to the person who reported the incident, if applicable.	IdRefType
@ SIF_RefObject	M		The name of the SIF object to which the GUID relates.	values: StudentPersonal StaffPersonal EmployeePersonal StudentContact

Table A.364-1: IncidentReporterType

A.365 IncidentTimeType

The time when the incident occurred.



Figure A.365-1: IncidentTimeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
IncidentTimeType	M		The time when the incident occurred.	xs:string
@ Type	M		Identifies whether or not the incident occurred during school hours.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.365-1: IncidentTimeType

A.366 InstructionalLevelType

An indication of the general nature and difficulty of instruction provided.

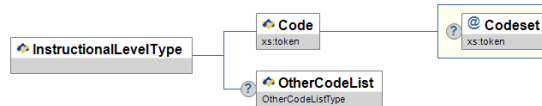


Figure A.366-1: InstructionalLevelType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
InstructionalLevelType			An indication of the general nature and difficulty of instruction provided.	
Code	M		Code representing the general nature and difficulty of instruction provided.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.366-1: InstructionalLevelType

```

JSON
XML
<InstructionalLevel>
  <Code>0571</Code>
</InstructionalLevel>
    
```

Example A.366-1: InstructionalLevelType

A.367 InstructionalStrategiesType

The various ways that instruction is delivered to achieve learning objectives and concepts.



Figure A.367-1: InstructionalStrategiesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
InstructionalStrategiesType	O		The various ways that instruction is delivered to achieve learning objectives and concepts.	List
InstructionalStrategy	OR			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.367-1: InstructionalStrategiesType

A.368 InterestLevelsType

InterestLevels is designed to represent the grade level for which the content is created. For example a tenth grader is at a third grade level in Algebra. You would want to present the content at a third grade level, but in a tenth grade context or interest level.

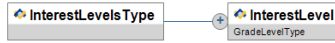


Figure A.368-1: InterestLevelsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
InterestLevelsType	O		InterestLevels is designed to represent the grade level for which the content is created. For example a tenth grader is at a third grade level in Algebra. You would want to present the content at a third grade level, but in a tenth grade context or interest level.	List
InterestLevel	MR			GradeLevelType

Table A.368-1: InterestLevelsType

A.369 Intervention2Type

Details of an intervention.

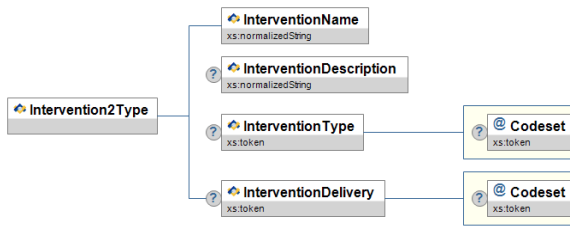


Figure A.369-1: Intervention2Type

Element/@Attribute	Char	CEDS Id/URL	Description	Type
Intervention2Type			Details of an intervention.	
InterventionName	M		Naming of the intervention.	xs:normalizedString
InterventionDescription	O		Description of the intervention.	xs:normalizedString
InterventionType	O		The description of the type of intervention that is delivered.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
InterventionDelivery	O		How the instruction is delivered.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.369-1: Intervention2Type

A.370 InterventionFrequencyTimeType

The frequency of the intervention.

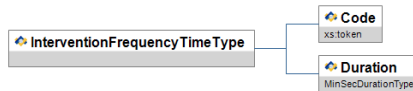


Figure A.370-1: InterventionFrequencyTimeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
InterventionFrequencyTimeType			The frequency of the intervention.	
Code	M		The frequency in segments of time.	xs:token 0001 Weekly 0002 Bi-weekly 0003 Semi-monthly 0004 Monthly 0005 Quarterly 0006 Semi-annually 0007 Annually 0008 Daily 9999 Other
Duration	M		The actual duration of the frequency of the intervention. For example, if the student is to have the intervention for 40 minutes, then 40 would be entered.	MinSecDurationType

Table A.370-1: InterventionFrequencyTimeType

A.371 InterventionListType

The list of interventions applied.



Figure A.371-1: InterventionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
InterventionListType			The list of interventions applied.	List
Intervention	MR		Details of an intervention.	InterventionType

Table A.371-1: InterventionListType

A.372 InterventionProviderNameListType

A list of persons providing an intervention.

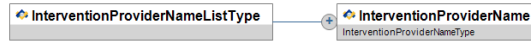


Figure A.372-1: InterventionProviderNameListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
InterventionProviderNameListType			A list of persons providing an intervention.	List
InterventionProviderName	MR		The person providing the intervention.	InterventionProviderNameType

Table A.372-1: InterventionProviderNameListType

A.373 InterventionProviderNameType

The person providing the intervention.

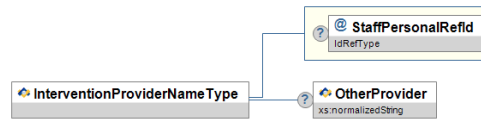


Figure A.373-1: InterventionProviderNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
InterventionProviderNameType			The person providing the intervention.	
@ StaffPersonalRefId	O		The StaffPersonalRefId of the staff member. Either the StaffPersonalRefId of the staff member or name must be provided.	IdRefType
OtherProvider	O		The name of the person if not a staff member. Either the StaffPersonalRefId of the staff member or name must be provided.	xs:normalizedString

Table A.373-1: InterventionProviderNameType

A.374 ItemCharacteristicsChoiceListType

The distribution of responses to each choice. This element only applies to multiple choice items.

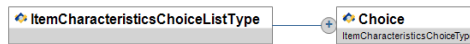


Figure A.374-1: ItemCharacteristicsChoiceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ItemCharacteristicsChoiceListType	O		The distribution of responses to each choice. This element only applies to multiple choice items.	List
Choice	MR			ItemCharacteristicsChoiceType

Table A.374-1: ItemCharacteristicsChoiceListType

A.375 ItemCharacteristicsChoiceType

Identifier for the choice.

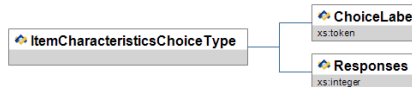


Figure A.375-1: ItemCharacteristicsChoiceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ItemCharacteristicsChoiceType	M		Identifier for the choice.	xs:token
ChoiceLabel	M		Identifier for the choice.	xs:token
Responses	M	000393 https://ceds.ed.gov/element/000393	The number of responses.	xs:integer

Table A.375-1: ItemCharacteristicsChoiceType

A.376 ItemCharacteristicsDescriptiveType

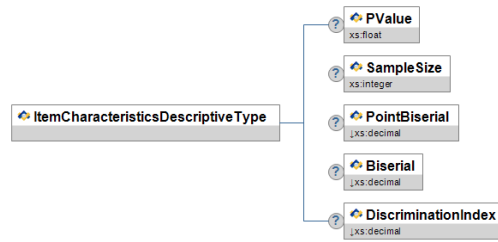


Figure A.376-1: ItemCharacteristicsDescriptiveType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ItemCharacteristicsDescriptiveType	O			
PValue	O		The percent of respondents who answered correctly. This number represents the probability of the correct response to a question.	xs:float
SampleSize	O		The size of the student group that saw the item.	xs:integer
PointBiserial	O		The correlation between correct answers (dichotomous variable) on this item and total correct answers on the test.	xs:decimal minInclusive: -1.00 maxInclusive: 1.00
Biserial	O		Similar to the Point Biserial Correlation except that answers to the item are assumed to come from an underlying continuous variable.	xs:decimal minInclusive: -1.00 maxInclusive: 1.00
DiscriminationIndex	O		The Index of Discrimination is the difference between the proportion of an upper group who got an item right and the proportion of a lower group who got the item right.	xs:decimal minInclusive: 0 maxInclusive: 1.00

Table A.376-1: ItemCharacteristicsDescriptiveType

A.377 ItemCharacteristicsDifferentialItemAnalysisType



Figure A.377-1: ItemCharacteristicsDifferentialItemAnalysisType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ItemCharacteristicsDifferentialItemAnalysisType	O			
CMH	O		Cochran-Mantel-Haenszel statistic.	xs:decimal minInclusive: -1.00 maxInclusive: 1.00
MH	O		Mantel-Haenszel statistic.	xs:decimal minInclusive: -1.00 maxInclusive: 1.00

Table A.377-1: ItemCharacteristicsDifferentialItemAnalysisType

A.378 ItemCharacteristicsMeasurementListType

A repeating group of psychometric measures.

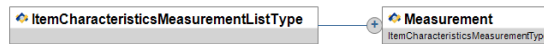


Figure A.378-1: ItemCharacteristicsMeasurementListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ItemCharacteristicsMeasurementListType	O		A repeating group of psychometric measures.	list
Measurement	MR		Container for series of item statistics.	ItemCharacteristicsMeasurementType

Table A.378-1: ItemCharacteristicsMeasurementListType

A.379 ItemCharacteristicsMeasurementType

Container for series of item statistics.

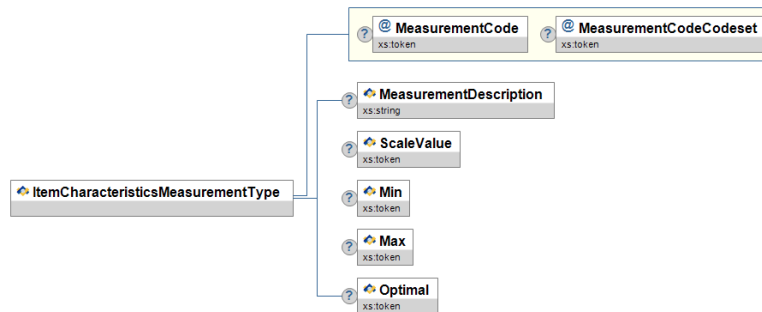


Figure A.379-1: ItemCharacteristicsMeasurementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ItemCharacteristicsMeasurementType			Container for series of item statistics.	
MeasurementCode	O	000709 https://ceds.ed.gov/element/000709	A code representing the type of statistic or analysis.	xs:token
MeasurementCodeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
MeasurementDescription	O		An additional description of the statistic or analysis.	xs:string
ScaleValue	O	000397 https://ceds.ed.gov/element/000397	The value of the Item based on this analysis	xs:token
Min	O	000708 https://ceds.ed.gov/element/000708	The minimum value possible for the measurement and test design.	xs:token
Max	O	000707 https://ceds.ed.gov/element/000707	The maximum value possible for the measurement and test design.	xs:token
Optimal	O		The optimal value for this measurement and test design.	xs:token

Table A.379-1: ItemCharacteristicsMeasurementType

A.380 JobClassificationType

The specific group of duties or responsibilities of position.

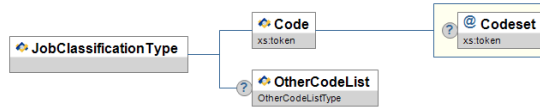


Figure A.380-1: JobClassificationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
JobClassificationType			The specific group of duties or responsibilities of position.	
Code	M		The specific group of duties or responsibilities of position.	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.380-1: JobClassificationType

A.381 JobFunctionType

The purpose of the activities as related to students.

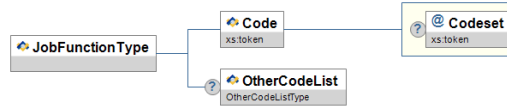


Figure A.381-1: JobFunctionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
JobFunctionType			The purpose of the activities as related to students.	
Code	M		Code representing the type of job function.	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.381-1: JobFunctionType

A.382 LanguageContainerType

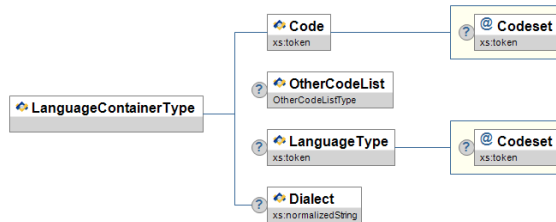


Figure A.382-1: LanguageContainerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LanguageContainerType	MR			
Code	M	000317 https://ceds.ed.gov/element/000317	The code representing the specific language that an individual uses to communicate.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType
LanguageType	O	000316 https://ceds.ed.gov/element/000316	An indication of the function and context in which an individual uses a language to communicate.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Dialect	O		Specific dialect of a person's language.	xs:normalizedString

Table A.382-1: LanguageContainerType

A.383 LanguageListType

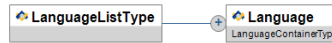


Figure A.383-1: LanguageListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LanguageListType	O			List
Language	MR			LanguageContainerType

Table A.383-1: LanguageListType

A.384 LanguageOfInstructionType

Language in which the section is taught.

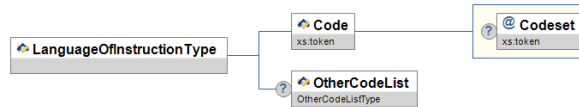


Figure A.384-1: LanguageOfInstructionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LanguageOfInstructionType	O		Language in which the section is taught.	
Code	M	000448 https://ceds.ed.gov/element/000448	Code representing the language of instruction.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.384-1: LanguageOfInstructionType

A.385 LastNameType

A person's last name.

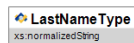


Figure A.385-1: LastNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LastNameType			A person's last name.	xs:normalizedString

Table A.385-1: LastNameType

JSON XML

```

<LastName>Person/LastName
  
```

Example A.385-1: LastNameType

A.386 LEAContactListType



Figure A.386-1: LEAContactListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LEAContactListType	O			List
LEAContact	MR		Information on contact persons for this LEA.	LEAContactType

Table A.386-1: LEAContactListType

A.387 LEAContactType

Information on contact persons for this LEA.

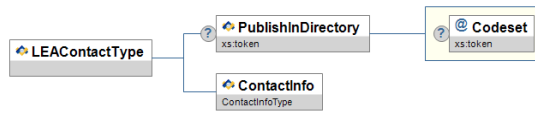


Figure A.387-1: LEAContactType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LEAContactType	MR		Information on contact persons for this LEA.	
PublishInDirectory	O		Indicates whether or not this LEA contact's information should be published in a directory of LEA information.	xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
ContactInfo	M			ContactInfoType

Table A.387-1: LEAContactType

A.388 LEAInfoSummaryCleanType

Collects elements of interest from LEAInfo.

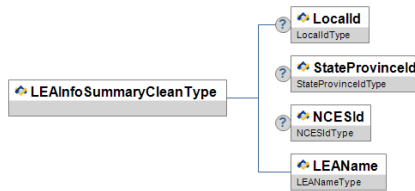


Figure A.388-1: LEAInfoSummaryCleanType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LEAInfoSummaryCleanType			Collects elements of interest from LEAInfo.	
LocalId	O			LocalIdType
StateProvinceId	O			StateProvinceIdType
NCEsId	O			NCEsIdType
LEAName	M	000204 https://ceds.ed.gov/element/000204		LEANameType

Table A.388-1: LEAInfoSummaryCleanType

A.389 LEAInfoSummaryType

Collects elements of interest from LEAInfo.

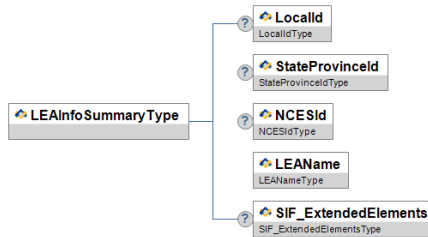


Figure A.389-1: LEAInfoSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LEAInfoSummaryType			Collects elements of interest from LEAInfo.	
LocalId	O			LocalIdType
StateProvinceId	O			StateProvinceIdType
NCEsId	O	000436 https://ceds.ed.gov/element/000436		NCEsIdType
LEAName	M			LEANameType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.389-1: LEAInfoSummaryType

A.390 LEANameType

Name of Local Education Agency.

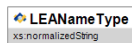


Figure A.390-1: LEANameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LEANameType			Name of Local Education Agency.	xs:normalizedString

Table A.390-1: LEANameType

```

JSON [ ] XML [ ]
<LEAName>Bappy Meadow School District</LEAName>
  
```

Example A.390-1: LEANameType

A.391 LearningObjectiveListType

Educational objectives of the activity or assignment.



Figure A.391-1: LearningObjectiveListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningObjectiveListType			Educational objectives of the activity or assignment.	List
LearningObjective	OR		Description of an educational objective of the activity or assignment.	xs:string

Table A.391-1: LearningObjectiveListType

A.392 LearningObjectivesType

Description of learning objective(s) for this lesson, i.e., "Student will be able to use Pythagorean Theorem." – equates to 'benchmark' or 'goal' or other terminology

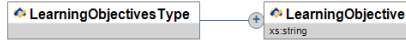


Figure A.392-1: LearningObjectivesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningObjectivesType	O		Description of learning objective(s) for this lesson, i.e., "Student will be able to use Pythagorean Theorem." – equates to 'benchmark' or 'goal' or other terminology	List
LearningObjective	MR			xs:string

Table A.392-1: LearningObjectivesType

A.393 LearningResourceComponentListType

Lesson or activity-sized portions of a resource.

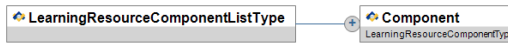


Figure A.393-1: LearningResourceComponentListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceComponentListType			Lesson or activity-sized portions of a resource.	List
Component	MR		A lesson or activity-sized portion of a resource.	LearningResourceComponentType

Table A.393-1: LearningResourceComponentListType

A.394 LearningResourceComponentStrategyListType

Teaching/learning strategies used in the learning resource.

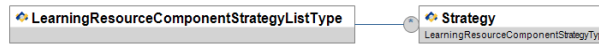


Figure A.394-1: LearningResourceComponentStrategyListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceComponentStrategyListType			Teaching/learning strategies used in the learning resource.	List
Strategy	OR		Teaching/learning strategy used in the learning resource. One per element.	LearningResourceComponentStrategyType

Table A.394-1: LearningResourceComponentStrategyListType

A.395 LearningResourceComponentStrategyType

Teaching/learning strategy used in the learning resource. One per element.



Figure A.395-1: LearningResourceComponentStrategyType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceComponentStrategyType			Teaching/learning strategy used in the learning resource. One per element.	xs:string

Table A.395-1: LearningResourceComponentStrategyType

A.396 LearningResourceComponentType

A lesson or activity-sized portion of a resource.

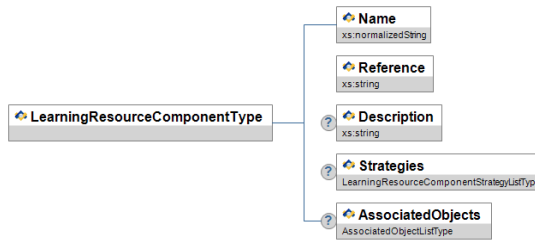


Figure A.396-1: LearningResourceComponentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceComponentType			A lesson or activity-sized portion of a resource.	
Name	M		Name of learning resource component within the resource, i.e. "Chapter 1, Section 4."	xs:normalizedString
Reference	M		Description of where ResourceComponent is located within resource or in general, i.e. "Section 4, pages 32-38," or URL string, or whatever locator is appropriate for media.	xs:string
Description	O		Description of ResourceComponent, i.e. "Discover how changing the scale of a map can either increase or decrease the level of detail you see."	xs:string
Strategies	O		Teaching/learning strategies used in the learning resource.	LearningResourceComponentStrategyListType
AssociatedObjects	O		References from component to associated elements within another SIF object.	AssociatedObjectListType

Table A.396-1: LearningResourceComponentType

A.397 LearningResourceContactListType

Contains contact information about resource authors.

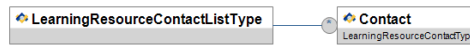


Figure A.397-1: LearningResourceContactListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceContactListType			Contains contact information about resource authors.	List
Contact	OR		Contains contact information about a resource author.	LearningResourceContactType

Table A.397-1: LearningResourceContactListType

A.398 LearningResourceContactType

Contains contact information about a resource author.

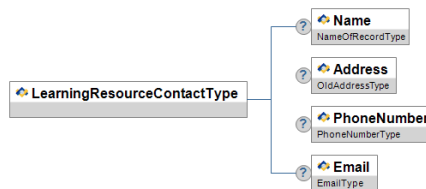


Figure A.398-1: LearningResourceContactType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceContactType			Contains contact information about a resource author.	
Name	O		Name of contact person. Use the generic element Name.	NameOfRecordType
Address	O		Address of organization or company.	OldAddressType
PhoneNumber	O		Phone number of organization or company.	PhoneNumberType
Email	O		The email of the organization or company.	EmailType

Table A.398-1: LearningResourceContactType

A.399 LearningResourceEvaluationListType

Evaluations/review of the resource.

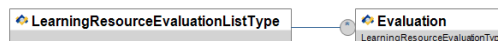


Figure A.399-1: LearningResourceEvaluationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceEvaluationListType			Evaluations/review of the resource.	List
Evaluation	OR		Evaluation/review of resource.	LearningResourceEvaluationType

Table A.399-1: LearningResourceEvaluationListType

A.400 LearningResourceEvaluationType

Evaluation/review of resource.

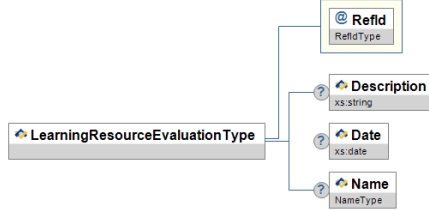


Figure A.400-1: LearningResourceEvaluationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceEvaluationType			Evaluation/review of resource.	
@ RefId	M		GUID assigned to an evaluation.	RefIdType
Description	O		Description of evaluation of resource.	xs:string
Date	O		Date evaluation was performed	xs:date
Name	O		Name of individual who submitted evaluation.	NameType

Table A.400-1: LearningResourceEvaluationType

A.401 LearningResourceLocationType

Description of location of resource, i.e. location in library or URL, community resource, outside resource supplier.

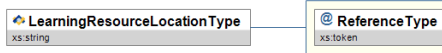


Figure A.401-1: LearningResourceLocationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceLocationType			Description of location of resource, i.e. location in library or URL, community resource, outside resource supplier.	xs:string
@ ReferenceType	M		A qualifying attribute for the Location payload. If ReferenceType is "URI", the payload contains a web address where the resource can be found.	xs:token

Table A.401-1: LearningResourceLocationType

A.402 LearningResourceRefIdListType

Links to aligned LearningResource objects.

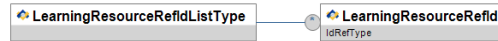


Figure A.402-1: LearningResourceRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningResourceRefIdListType	O		Links to aligned LearningResource objects.	List
LearningResourceRefId	OR		Link to an aligned LearningResource object.	IdRefType

Table A.402-1: LearningResourceRefIdListType

A.403 LearningStandardDocumentRefIdListType

Links to LearningStandardDocument objects



Figure A.403-1: LearningStandardDocumentRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningStandardDocumentRefIdListType	O		Links to LearningStandardDocument objects	List
LearningStandardDocumentRefId	OR		Link to LearningStandardDocument	IdRefType

Table A.403-1: LearningStandardDocumentRefIdListType

A.404 LearningStandardItemRefIdListType

Associated LearningStandardItem objects.



Figure A.404-1: LearningStandardItemRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningStandardItemRefIdListType			Associated LearningStandardItem objects.	List
LearningStandardItemRefId	OR	000605 https://ceds.ed.gov/element/000605	Link to associated LearningStandardItem object.	IdRefType

Table A.404-1: LearningStandardItemRefIdListType

A.405 LearningStandardItemsType

Allows any SIF object to be correlated to learning standards.



Figure A.405-1: LearningStandardItemsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningStandardItemsType	O		Allows any SIF object to be correlated to learning standards.	List
LearningStandardItemRefId	MR			IdRefType

Table A.405-1: LearningStandardItemsType

A.406 LearningStandardListType

This element contains information related to curriculum standards statements "standards" or "benchmarks" or the like within the document.

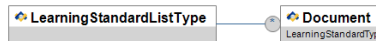


Figure A.406-1: LearningStandardListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningStandardListType			This element contains information related to curriculum standards statements "standards" or "benchmarks" or the like within the document.	List
Document	OR	000231 https://ceds.ed.gov/element/000231	A curriculum standards document or the like published by a national, state, district, school site, professional association or other interested party.	LearningStandardType

Table A.406-1: LearningStandardListType

A.407 LearningStandardType

A curriculum standards document or the like published by a national, state, district, school site, professional association or other interested party.

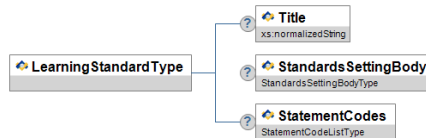


Figure A.407-1: LearningStandardType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LearningStandardType	OR		A curriculum standards document or the like published by a national, state, district, school site, professional association or other interested party.	
Title	O	000712 https://ceds.ed.gov/element/000712	Name of the standard document, e.g., "Washington Essential Academic Learning Requirements."	xs:normalizedString
StandardsSettingBody	O		The name of the state or organization that authored and manages updates to the standards document (e.g., NCTM, Ohio Department of Education).	StandardsSettingBodyType
StatementCodes	O			StatementCodeListType

Table A.407-1: LearningStandardType

A.408 LeastRestrictiveEnvironmentType

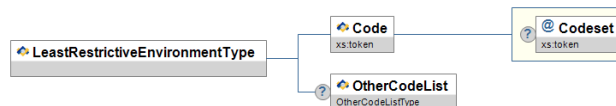


Figure A.408-1: LeastRestrictiveEnvironmentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LeastRestrictiveEnvironmentType	O			
Code	M		Category represents the optimal educational setting in which the student should be placed (setting where child has most desirable learning environment). Relates specifically to special education.	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.408-1: LeastRestrictiveEnvironmentType

A.409 LessonSourceAuthorType

For each lesson source, the author of the source.

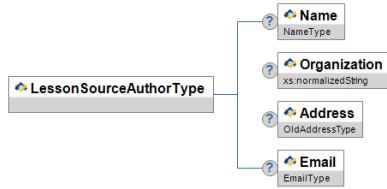


Figure A.409-1: LessonSourceAuthorType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LessonSourceAuthorType			For each lesson source, the author of the source.	
Name	O		Name of the author.	NameType
Organization	O		Organization name.	xs:normalizedString
Address	O		Address of the author.	OldAddressType
Email	O		Email address of the author.	EmailType

Table A.409-1: LessonSourceAuthorType

A.410 LessonSourceListType

One or more sources for the lesson. This describes the lesson's origin.



Figure A.410-1: LessonSourceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LessonSourceListType			One or more sources for the lesson. This describes the lesson's origin.	List
LessonSource	OR		One or more sources for the lesson. This describes the lesson's origin.	LessonSourceType

Table A.410-1: LessonSourceListType

A.411 LessonSourceType

One or more sources for the lesson. This describes the lesson's origin.

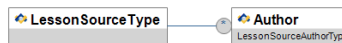


Figure A.411-1: LessonSourceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LessonSourceType			One or more sources for the lesson. This describes the lesson's origin.	
Author	OR		For each lesson source, the authors of the source.	LessonSourceAuthorType

Table A.411-1: LessonSourceType

A.412 LessonStrategyListType

Teaching strategies used in a lesson plan.



Figure A.412-1: LessonStrategyListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LessonStrategyListType			Teaching strategies used in a lesson plan.	List
Strategy	OR		Teaching strategy used in a lesson plan.	xs:normalizedString

Table A.412-1: LessonStrategyListType

A.413 LibraryItemInfoType

This element contains the information about the library item. Most transaction elements will contain this element. However, certain types of fines assessed to the student like "talking in class", "running in library", etc. do not have a corresponding item so that transaction instance would not contain an ItemInfo.

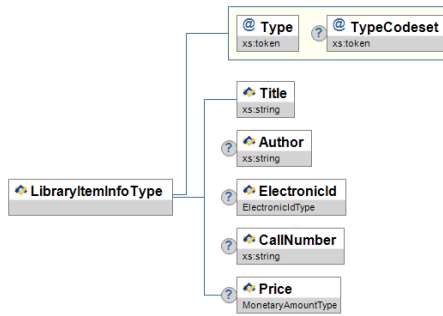


Figure A.413.1: LibraryItemInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LibraryItemInfoType			This element contains the information about the library item. Most transaction elements will contain this element. However, certain types of fines assessed to the student like "talking in class", "running in library", etc. do not have a corresponding item so that transaction instance would not contain an ItemInfo.	
@Type	M		Type of item being referenced.	xs:token
@TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Title	M		The title of the item being referenced by this transaction.	xs:string
Author	O		The author of the item being referenced by this transaction.	xs:string
ElectronicId	O		Electronic identifier associated with this transaction. This element will not appear if the transaction contains a HoldInfo for an item where a specific instance of the item hasn't been assigned to fulfill the hold request (i.e. unfulfilled title hold request).	ElectronicIdType
CallNumber	O		The library call number, if any, assigned to this item.	xs:string
Price	O		The cost of this item.	MonetaryAmountType

Table A.413.1: LibraryItemInfoType

A.414 LibraryMessageListType

List of messages for/regarding the patron.

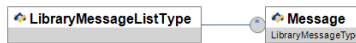


Figure A.414.1: LibraryMessageListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LibraryMessageListType	O		List of messages for/regarding the patron.	List
Message	OR			LibraryMessageType

Table A.414.1: LibraryMessageListType

A.415 LibraryMessageType

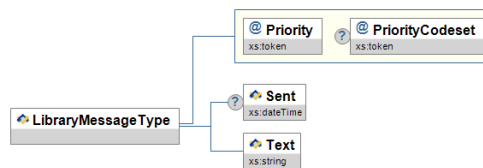


Figure A.415.1: LibraryMessageType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LibraryMessageType				
@Priority	M		The level of urgency associated with this message.	xs:token
@PriorityCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Sent	O		The date and time that this message was originally sent.	xs:dateTime
Text	M		The contents of the message.	xs:string

Table A.415.1: LibraryMessageType

A.416 LibraryTransactionListType

List of transactions.



Figure A.416-1: LibraryTransactionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LibraryTransactionListType			List of transactions.	List
Transaction	OR		Contains information about library transactions for the referenced student. These include items that are checked out or have fines or holds placed on them.	LibraryTransactionType

Table A.416-1: LibraryTransactionListType

A.417 LibraryTransactionType

Contains information about library transactions for the referenced student. These include items that are checked out or have fines or holds placed on them.

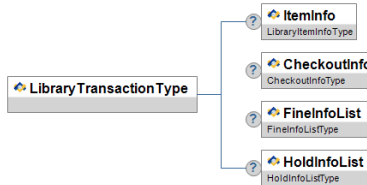


Figure A.417-1: LibraryTransactionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LibraryTransactionType			Contains information about library transactions for the referenced student. These include items that are checked out or have fines or holds placed on them.	
ItemInfo	O		If this transaction has an item associated with it, this element contains the information about the item. Most transaction elements will contain this element. However, certain types of fines assessed to the student like "talking in class", "running in library", etc. do not have a corresponding item so that transaction instance would not contain an ItemInfo.	LibraryItemInfoType
CheckoutInfo	O		If the item is currently checked out to this person, this element contains the date and time that the item is due to be returned.	CheckoutInfoType
FineInfoList	O		List of fines assessed.	FineInfoListType
HoldInfoList	O		List of holds placed.	HoldInfoListType

Table A.417-1: LibraryTransactionType

A.418 LifeCycleType

This common metadata element describes the life cycle of the object it represents, based on the IEEE LOM LifeCycle element [LOM].

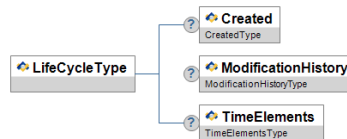


Figure A.418-1: LifeCycleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LifeCycleType			This common metadata element describes the life cycle of the object it represents, based on the IEEE LOM LifeCycle element [LOM].	
Created	O		When the object was created by whom. This is a more persistent creation date than the date/time in the object's sif_header. Depending on the use case being implemented, this value could contain the date the data in the object first entered the zone or was actually created.	CreatedType
ModificationHistory	O		An ordered set of modified elements describing which system modified the data, when the modification took place, and a brief description of the modification.	ModificationHistoryType
TimeElements	O			TimeElementsType

Table A.418-1: LifeCycleType

```

JSON XML
<LifeCycle>
  <Created>
    <dataTime>2006-08-17T09:00:00-05:00</dataTime>
    <Creator>
      <Name>Kipponas Bardonis</Name>
      <ID>http://www.edpsystems.com/abardonis</ID>
    </Creator>
  </Created>
  <ModificationHistory>
    <Modified>
      <dataTime>2006-08-17T09:00:00-05:00</dataTime>
    </Modified>
  </ModificationHistory>
</LifeCycle>
  
```

A.419 LocalIdType

This is a common element used to define the locally assigned identifier associated with an entity. It is used in StudentPersonal, StaffPersonal, SchoolInfo, and other objects.

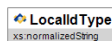


Figure A.419-1: LocalIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LocalIdType			This is a common element used to define the locally assigned identifier associated with an entity. It is used in StudentPersonal, StaffPersonal, SchoolInfo, and other objects.	xs:normalizedString

Table A.419-1: LocalIdType

```

JSON XML
<Loca11d>123321&/Loca11d>
    
```

Example A.419-1: LocalIdType

A.420 LocationOfInstructionType

Description of the location in which the section is taught.

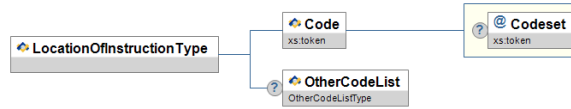


Figure A.420-1: LocationOfInstructionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LocationOfInstructionType	O		Description of the location in which the section is taught.	
Code	M	000524 https://ceds.ed.gov/element/000524	Code representing the location of instruction.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.420-1: LocationOfInstructionType

A.421 LocationType

This common element initially supports core data elements describing specific physical locations. It is not meant to replace the LocationInfo object but is, rather, supposed to facilitate consistent but informal descriptions and references of specific, physical locations.

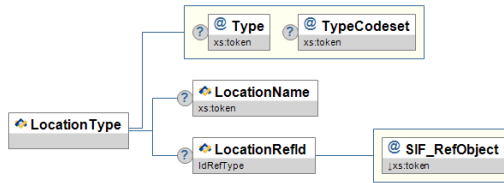


Figure A.421-1: LocationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
LocationType				
@Type	O			xs:token
@TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
LocationName	O		Name of the location.	xs:token
LocationRefId	O		RefId of the location object if the location is a SIF Object such as SchoolInfo.	IdRefType
@SIF_RefObject	M		Type of SIF Object Location points to.	values: SchoolInfo LabInfo RoomInfo LocationInfo

Table A.421-1: LocationType

A.422 ManifestationDeterminationType

Information relating to a manifestation determination meeting.

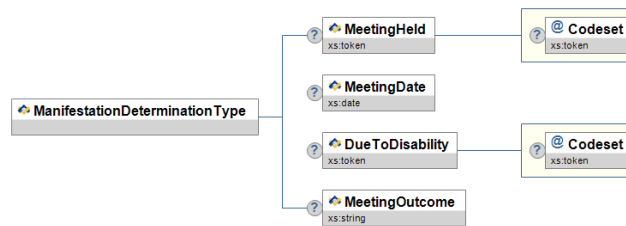


Figure A.422-1: ManifestationDeterminationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ManifestationDeterminationType	O		Information relating to a manifestation determination meeting.	
MeetingHeld	O		Was a manifestation determination meeting held for this student regarding this offense?	xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
MeetingDate	O		Date of the manifestation determination meeting, if applicable.	xs:date
DueToDisability	O		Did the team determine that the offense was a manifestation of the student's disability?	xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
MeetingOutcome	O		Text description of the outcome of the meeting; for example, hearing completed, pending, or refused by student's parents.	xs:string

Table A.422-1: ManifestationDeterminationType

A.423 MarkInfoListType

The grading-related information for a section, repeating for each marking period (TermInfo) in which the section reports Marks.

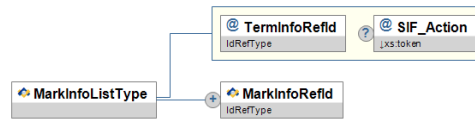


Figure A.423-1: MarkInfoListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkInfoListType			The grading-related information for a section, repeating for each marking period (TermInfo) in which the section reports Marks.	List
@ TermInfoRefid	M		The Id (GUID) that identifies the marking period that the following marks are recorded in.	IdRefType
@ SIF_Action	O		In a change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum the key for the list must also be present.	values: Delete
MarkInfoRefid	MR		The Id (GUID) that identifies a mark that this class uses for grading.	IdRefType

Table A.423-1: MarkInfoListType

A.424 MarkingPeriodMarkDataType

Note: Mandatory if mid-term mark exists. Mid-term mark.

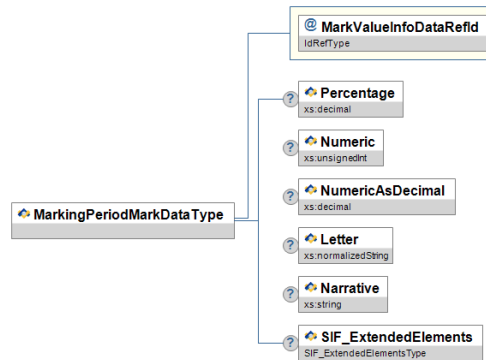


Figure A.424-1: MarkingPeriodMarkDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkingPeriodMarkData			Note: Mandatory if mid-term mark exists. Mid-term mark.	
MarkValueInfoDataRefId	M		Reference to marking system at school of record.	IdRefType
Percentage	C		The percent score for this mark (0.00 - 100.00).	xs:decimal
Numeric	C		The raw numeric score for this mark. Note: This element to be deprecated.	xs:unsignedInt
NumericAsDecimal	C		The raw numeric score for this mark. This element allows for a numeric mark (score or grade) in decimal format.	xs:decimal
Letter	C	000124 https://ceds.ed.gov/element/000124	The letter grade for this mark.	xs:normalizedString
Narrative	C		The free form text narrative for this mark.	xs:string
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.424-1: MarkingPeriodMarkData

A.425 MarkingPeriodSummaryType

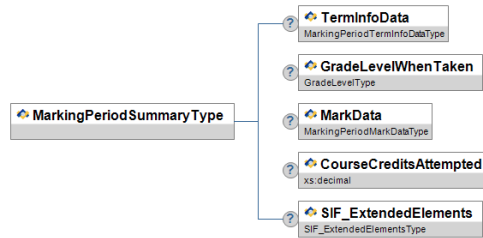


Figure A.425-1: MarkingPeriodSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkingPeriodSummary				
TermInfoData	O		Information related to the span of time associated with the marking period.	MarkingPeriodTermInfoData Type
GradeLevelWhenTaken	O		Student's grade level at time of course.	GradeLevelType
MarkData	C	000183 https://ceds.ed.gov/element/000183	Note: Mandatory if mid-term mark exists. Mid-term mark.	MarkingPeriodMarkData Type
CourseCreditsAttempted	O		Number of course credits attempted.	xs:decimal
SIF_ExtendedElements	O			SIF_ExtendedElements Type

Table A.425-1: MarkingPeriodSummaryType

A.426 MarkingPeriodTermInfoData

Information related to the span of time associated with the marking period.

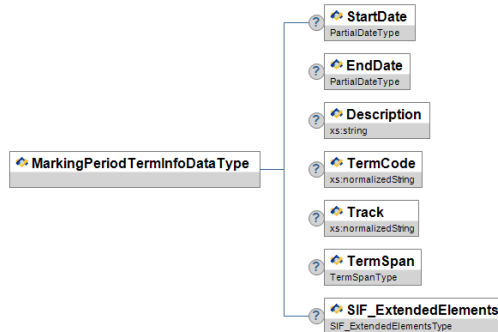


Figure A.426-1: MarkingPeriodTermInfoData

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkingPeriodTermInfoData			Information related to the span of time associated with the marking period.	
StartDate	O			PartialDateType
EndDate	O			PartialDateType
Description	O			xs:string
TermCode	O			xs:normalizedString
Track	O			xs:normalizedString
TermSpan	O			TermSpanType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.426-1: MarkingPeriodTermInfoData

A.427 MarkingSystemsType

Note: Mandatory if school of record. Marking systems/grading tables used by the school.



Figure A.427-1: MarkingSystemsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkingSystemsType			Note: Mandatory if school of record. Marking systems/grading tables used by the school.	List
MarkValueInfoData	MR		Marking system/grading table used by the school.	MarkValueInfo2Type

Table A.427-1: MarkingSystemsType

A.428 MarkValueInfo2Type

Marking system/grading table used by the school.

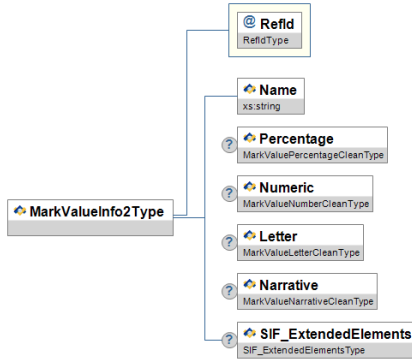


Figure A.428-1: MarkValueInfo2Type

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkValueInfo2Type			Marking system/grading table used by the school.	
@ RefId	M		Id used internally to StudentAcademicRecord to link marks to their marking systems.	RefIdType
Name	M		The text name of the value list ("Letter Grades", "Letter Grades (+/-)", "ESU", "Pass/Fail", "Override Grades", "Citizenship Comment Codes", etc).	xs:string
Percentage	C		Indicates whether a percent Mark is accepted (format #0.00).	MarkValuePercentageCleanType
Numeric	C		Indicates whether a raw numeric score is accepted.	MarkValueNumberCleanType
Letter	C		Indicates whether a letter Mark is accepted.	MarkValueLetterCleanType
Narrative	C		If present, indicates that a free-form text narrative is accepted.	MarkValueNarrativeCleanType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.428-1: MarkValueInfo2Type

A.429 MarkValueLetterCleanType

Indicates whether a letter Mark is accepted.

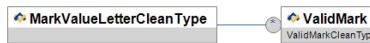


Figure A.429-1: MarkValueLetterCleanType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkValueLetterCleanType			Indicates whether a letter Mark is accepted.	List
ValidMark	CR		List of specific valid letter Marks. May be omitted when IsAccepted is false, otherwise mandatory.	ValidMarkCleanType

Table A.429-1: MarkValueLetterCleanType

A.430 MarkValueLetterType

Indicates whether a letter Mark is accepted.

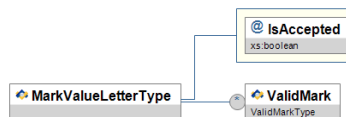


Figure A.430-1: MarkValueLetterType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkValueLetterType			Indicates whether a letter Mark is accepted.	ActionList (ValidMark/Code)
@IsAccepted	M		Indicates whether a letter Mark is accepted and is used in Change events to unambiguously signal whether support for the Mark has changed, especially ended.	xs:boolean
ValidMark	CR		List of specific valid letter Marks. May be omitted when IsAccepted is false, otherwise mandatory.	ValidMarkType

Table A.430-1: MarkValueLetterType

A.431 MarkValueNarrativeCleanType

Indicates that a free-form text narrative is accepted.

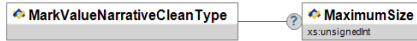


Figure A.431-1: MarkValueNarrativeCleanType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkValueNarrativeCleanType			Indicates that a free-form text narrative is accepted.	
MaximumSize	O		An integer value representing the maximum number of Unicode characters for the narrative, the UTF-8 encoding of which may be longer.	xs:unsignedInt

Table A.431-1: MarkValueNarrativeCleanType

A.432 MarkValueNarrativeType

Indicates that a free-form text narrative is accepted.

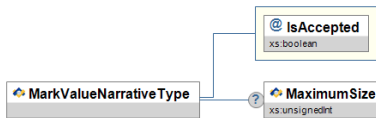


Figure A.432-1: MarkValueNarrativeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkValueNarrativeType			Indicates that a free-form text narrative is accepted.	
@IsAccepted	M		Indicates whether a narrative is accepted and is used in Change events to unambiguously signal whether support for a narrative has changed, especially ended.	xs:boolean
MaximumSize	O		An integer value representing the maximum number of Unicode characters for the narrative, the UTF-8 encoding of which may be longer.	xs:unsignedInt

Table A.432-1: MarkValueNarrativeType

A.433 MarkValueNumberCleanType

Indicates whether a raw numeric score is accepted.

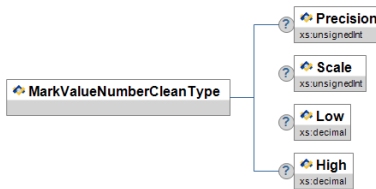


Figure A.433-1: MarkValueNumberCleanType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkValueNumberCleanType			Indicates whether a raw numeric score is accepted.	
Precision	O		Number of significant digits.	xs:unsignedInt
Scale	O		Number of decimal places.	xs:unsignedInt
Low	O		Lowest Mark in the range (e.g., 98, 3.95).	xs:decimal
High	O		Highest Mark in the range (e.g., 100, 4.0).	xs:decimal

Table A.433-1: MarkValueNumberCleanType

A.434 MarkValueNumberType

Indicates whether a raw numeric score is accepted.

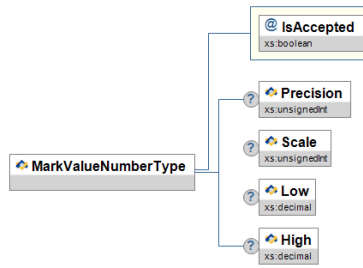


Figure A.434-1: MarkValueNumberType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkValueNumberType			Indicates whether a raw numeric score is accepted.	
@ IsAccepted	M		Indicates whether a raw numeric score is accepted and is used in Change events to unambiguously signal whether support for the score has changed, especially ended.	xs:boolean
Precision	O		Number of significant digits.	xs:unsignedInt
Scale	O		Number of decimal places.	xs:unsignedInt
Low	O		Lowest Mark in the range (e.g., 98, 3.95).	xs:decimal
High	O		Highest Mark in the range (e.g., 100, 4.0).	xs:decimal

Table A.434-1: MarkValueNumberType

A.435 MarkValuePercentageCleanType

Indicates whether a percent Mark is accepted (format #0.00).

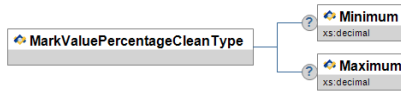


Figure A.435-1: MarkValuePercentageCleanType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkValuePercentageCleanType			Indicates whether a percent Mark is accepted (format #0.00).	
Minimum	O		The minimum percent value accepted for this mark. If present, the publisher of this object is required to ensure that any values present in the StudentSectionMarks object will not be lower than this value.	xs:decimal
Maximum	O		The maximum percent value accepted for this mark. If present, the publisher of this object is required to ensure that any values present in the StudentSectionMarks object will not be higher than this value.	xs:decimal

Table A.435-1: MarkValuePercentageCleanType

A.436 MarkValuePercentageType

Indicates whether a percent Mark is accepted (format #0.00).

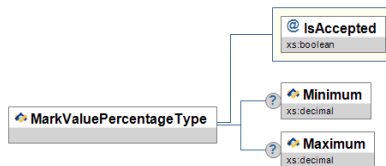


Figure A.436-1: MarkValuePercentageType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MarkValuePercentageType			Indicates whether a percent Mark is accepted (format #0.00).	
@ IsAccepted	M		Indicates whether a percent Mark is accepted and is used in Change events to unambiguously signal whether support for the Mark has changed, especially ended.	xs:boolean
Minimum	O		The minimum percent value accepted for this mark. If present, the publisher of this object is required to ensure that any values present in the StudentSectionMarks object will not be lower than this value.	xs:decimal
Maximum	O		The maximum percent value accepted for this mark. If present, the publisher of this object is required to ensure that any values present in the StudentSectionMarks object will not be higher than this value.	xs:decimal

Table A.436-1: MarkValuePercentageType

A.437 MealPriceListType

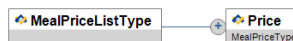


Figure A.437-1: MealPriceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MealPriceListType				List
Price	MR		Price of the meal	MealPriceType

Table A.437-1: MealPriceListType

A.438 MealPriceType

Price of the meal

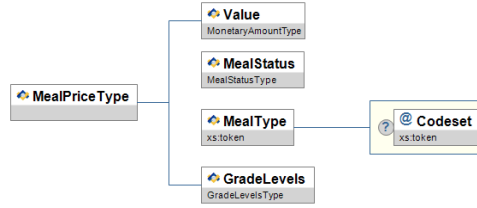


Figure A.438-1: MealPriceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MealPriceType			Price of the meal	
Value	M		The price value	MonetaryAmountType
MealStatus	M			MealStatusType
MealType	M			xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
GradeLevels	M			GradeLevelsType

Table A.438-1: MealPriceType

A.439 MealStatusListType

List of meal status.



Figure A.439-1: MealStatusListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MealStatusListType			List of meal status.	List
MealStatus	MR		The student's meal status.	MealStatusType

Table A.439-1: MealStatusListType

A.440 MealStatusType

This gives information about a student's meal status.

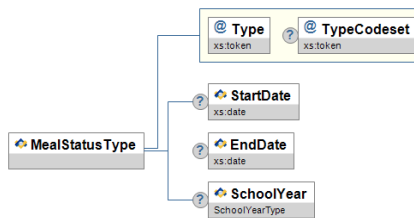


Figure A.440-1: MealStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MealStatusType			This gives information about a student's meal status.	
@Type	M		Meal status type. None refers to paid students. In SIF objects where the MealStatus is required and does not apply, NA should be used.	xs:token
@TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
StartDate	O		Date on which meal status became effective (inclusive).	xs:date
EndDate	C		Date on which meal status was last in effect, if in the past. This element can't exist without a startDate.	xs:date
SchoolYear	O		School year for which the information is applicable, expressed as the four-digit year in which the school year ends (e.g., 2004 for the 2003-04 school year).	SchoolYearType

Table A.440-1: MealStatusType

```

JSON XML
<MealStatus Type="Free">
  <StartDate>2004-01-01</StartDate>
  <EndDate>2004-12-31</EndDate>
</MealStatus>
    
```

Example A.440-1: MealStatusType

A.441 MealType

This gives information about a meal type.



Figure A.441-1: MealType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MealType			This gives information about a meal type.	values: FirstMeal SecondMeal StaffMeal AdultMeal AlaCarte

Table A.441-1: MealType

```

JSON XML
<MealType>FirstMeal</MealType>
    
```

Example A.441-1: MealType

A.442 MediaTypeListType

Resource media types



Figure A.442-1: MediaTypeListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MediaTypeListType	O		Resource media types	List
MediaType	OR		The [MIME] type based on IANA registration (see RFC2048) or 'non-digital'	xs:token

Table A.442-1: MediaTypeListType

A.443 MediaTypesType

Allows an object or query to be tagged with MIME types.

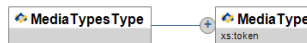


Figure A.443-1: MediaTypesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MediaTypesType	O		Allows an object or query to be tagged with MIME types.	List
MediaType	MR			xs:token

Table A.443-1: MediaTypesType

A.444 MedicalAlertMessagesType

A list of medical alert messages associated with the student.

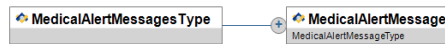


Figure A.444-1: MedicalAlertMessagesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MedicalAlertMessagesType	O		A list of medical alert messages associated with the student.	List
MedicalAlertMessage	MR	000439 https://ceds.ed.gov/element/000439	Medical alert associated with the student.	MedicalAlertMessageType

Table A.444-1: MedicalAlertMessagesType

A.445 MedicalAlertMessageType

Medical alert associated with the student.



Figure A.445-1: MedicalAlertMessageType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MedicalAlertMessageType	MR		Medical alert associated with the student.	xs:string
Severity	M		The level of severity of this medical alert.	xs:token
SeverityCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.445-1: MedicalAlertMessageType

A.446 MediumOfInstructionType

Medium through which the student receives instructional communication from the teacher.

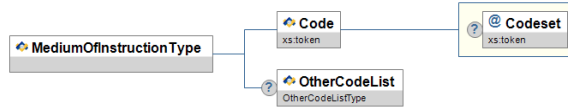


Figure A.446-1: MediumOfInstructionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MediumOfInstructionType	O		Medium through which the student receives instructional communication from the teacher.	
Code	M		Code representing the medium of instruction.	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.446-1: MediumOfInstructionType

A.447 MeetingTimeListType



Figure A.447-1: MeetingTimeListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MeetingTimeListType	O			List
MeetingTime	MR		Time(s) this section meets. Note: If the reference to BellSchedule below (BellScheduleRefId) exists in this object, then the TimetableDayList/TimetableDay/Identifier value and the TimetablePeriodList/TimetablePeriod/Identifier value in the BellSchedule object <i>must</i> exactly match, respectively, the MeetingTime/TimetableDay and MeetingTime/TimetablePeriod values in this object.	MeetingTimeType

Table A.447-1: MeetingTimeListType

A.448 MeetingTimeType

This element represents the meeting times and periods for a course, and occurs within objects such as SectionInfo and StudentSectionEnrollment.

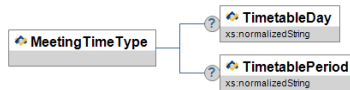


Figure A.448-1: MeetingTimeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MeetingTimeType			This element represents the meeting times and periods for a course, and occurs within objects such as SectionInfo and StudentSectionEnrollment.	
TimetableDay	O	000521 https://ceds.ed.gov/element/000521	Locally defined rotation cycle day code when the section meets (e.g., in a two day schedule, valid values would be "A" and "B," or "1" and "2").	xs:normalizedString
TimetablePeriod	O	000522 https://ceds.ed.gov/element/000522	The period within the day when this section takes place (e.g., "0" through "7").	xs:normalizedString

Table A.448-1: MeetingTimeType

```

JSON
XML

<MeetingTime>
  <TimetableDay/>
  <TimetablePeriod/>
</MeetingTime>
    
```

Example A.448-1: MeetingTimeType

A.449 MenuPlanQuantityListType

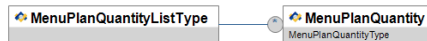


Figure A.449-1: MenuPlanQuantityListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MenuPlanQuantityListType	M			List
MenuPlanQuantity	OR		Quantity of item in this menu plan	MenuPlanQuantityType

Table A.449-1: MenuPlanQuantityListType

A.450 MenuPlanQuantityType

Quantity of item in this menu plan

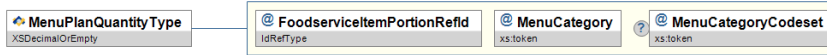


Figure A.450-1: MenuPlanQuantityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MenuPlanQuantityType			Quantity of item in this menu plan	xs:decimal
FoodserviceItemPortionRefId	M		Item portion amount	IdRefType
MenuCategory	M			xs:token
MenuCategoryCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.450-1: MenuPlanQuantityType

A.451 MiddleNameType

A person's middle name or initial.

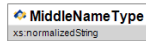


Figure A.451-1: MiddleNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MiddleNameType			A person's middle name or initial.	xs:normalizedString

Table A.451-1: MiddleNameType

```
JSON XML
<MiddleName>Bartholomew</MiddleName>
```

Example A.451-1: MiddleNameType

A.452 MigrantType

Is this a migrant student?



Figure A.452-1: MigrantType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MigrantType			Is this a migrant student?	values: Y N U Unknown

Table A.452-1: MigrantType

```
JSON XML
<Migrant>N</Migrant>
```

Example A.452-1: MigrantType

A.453 MilkSaleQuantityListType

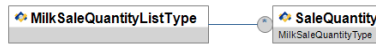


Figure A.453-1: MilkSaleQuantityListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MilkSaleQuantityListType				List
SaleQuantity	OR		Quantity of sale	MilkSaleQuantityType

Table A.453-1: MilkSaleQuantityListType

A.454 MilkSaleQuantityType

Quantity of sale

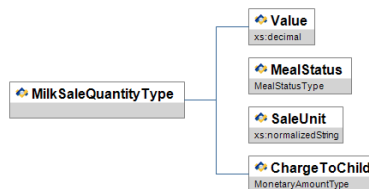


Figure A.454-1: MilkSaleQuantityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MilkSaleQuantityType			Quantity of sale	
Value	M		The quantity sold.	xs:decimal
MealStatus	M			MealStatusType
SaleUnit	M		Unit of Sale	xs:normalizedString
ChargeToChild	M		Charge to child per unit	MonetaryAmountType

Table A.454-1: MilkSaleQuantityType

A.455 MinSecDurationType

Duration in minutes and seconds.

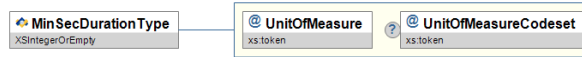


Figure A.455-1: MinSecDurationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MinSecDurationType			Duration in minutes and seconds.	xs:integer
@ UnitOfMeasure	M		Identifies unit of measure in which amount of time is expressed.	xs:token
@ UnitOfMeasureCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.455-1: MinSecDurationType

A.456 ModificationHistoryType

An ordered set of modified elements describing which system modified the data, when the modification took place, and a brief description of the modification.

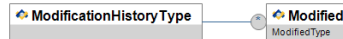


Figure A.456-1: ModificationHistoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ModificationHistoryType	O		An ordered set of modified elements describing which system modified the data, when the modification took place, and a brief description of the modification.	List
Modified	OR		A single modification event.	ModificationType

Table A.456-1: ModificationHistoryType

A.457 ModifiedType

A single modification event.

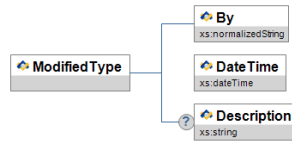


Figure A.457-1: ModifiedType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ModifiedType	OR		A single modification event.	
By	M		Identifier of the system or person that modified the data.	xs:normalizedString
DateTime	M	000534 https://ceds.ed.gov/element/000534	The date/time the modification occurred.	xs:dateTime
Description	O		Human readable description of the data modifications.	xs:string

Table A.457-1: ModifiedType

A.458 MonetaryAmountType

A monetary amount.

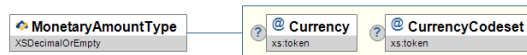


Figure A.458-1: MonetaryAmountType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MonetaryAmountType			A monetary amount.	xs:decimal
@ Currency	O		Currency code. Where omitted, defaults to implementation-defined local currency, typically USD in the United States.	xs:token
@ CurrencyCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.458-1: MonetaryAmountType

A.459 MsgIdType

A message identifier.



Figure A.459-1: MsgIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MsgIdType			A message identifier.	xs:string

Table A.459-1: MsgIdType

A.460 MultipleIntelligencesType

An educational theory that describes at least eight different kinds of "intelligences." These include linguistic, logical-mathematical, spatial, bodily-kinesthetic, musical intelligence, interpersonal, intrapersonal and naturalist.



Figure A.460-1: MultipleIntelligencesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
MultipleIntelligencesType	O		An educational theory that describes at least eight different kinds of "intelligences." These include linguistic, logical-mathematical, spatial, bodily-kinesthetic, musical intelligence, interpersonal, intrapersonal and naturalist.	List
MultipleIntelligence	OR			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.460-1: MultipleIntelligencesType

A.461 NameOfRecordType

Extends baseNameType to allow for one type attribute value, indicating the name is the name of record; serves as the primary name in some SIF objects, including studentPersonal.



Figure A.461-1: NameOfRecordType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
NameOfRecordType			Extends baseNameType to allow for one type attribute value, indicating the name is the name of record; serves as the primary name in some SIF objects, including studentPersonal.	Extension of BaseNameType
Prefix	O		A prefix associated with the name like Mr., Ms., etc.	xs:normalizedString
LastName	M		The last name.	LastNameType
FirstName	M		The first name.	FirstNameType
MiddleName	O		The middle name or initial.	MiddleNameType
Suffix	O		Generation of suffix like II, Jr., etc.	xs:normalizedString
PreferredName	O		This is a name that the person prefers to be called by.	xs:normalizedString
SortName	O		This is the name to be used for sorting purposes.	xs:normalizedString
FullName	O		A free text field for the complete name.	xs:normalizedString
@ Type	M		Code that specifies what type of name this is.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.461-1: NameOfRecordType

A.462 NamesType

The name(s) of the person.

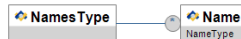


Figure A.462-1: NamesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
NamesType	O		The name(s) of the person.	List
Name	OR		The name(s) of the person.	NameType

Table A.462-1: NamesType

A.463 NameType

The Name element, which could belong to a student, staff member, contact, etc. This element or a form with a subset of Type values occurs within objects such as StudentPersonal, StudentContact, StaffPersonal, etc.



Figure A.463-1: NameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
NameType			The Name element, which could belong to a student, staff member, contact, etc. This element or a form with a subset of Type values occurs within objects such as StudentPersonal, StudentContact, StaffPersonal, etc.	Extension of baseNameType
Prefix	O		A prefix associated with the name like Mr., Ms., etc.	xs:normalizedString
LastName	M		The last name.	LastNameType
FirstName	M		The first name.	FirstNameType
MiddleName	O		The middle name or initial.	MiddleNameType
Suffix	O		Generation of suffix like II, Jr., etc.	xs:normalizedString
PreferredName	O		This is a name that the person prefers to be called by.	xs:normalizedString
SortName	O		This is the name to be used for sorting purposes.	xs:normalizedString
FullName	O		A free text field for the complete name.	xs:normalizedString
@Type	M		Code that specifies what type of name this is. If unsure, use 04.	xs:token

Table A.463-1: NameType

JSON XML

```
<Name Type="04">
  <Prefix>Mr.</Prefix>
  <LastName>Woodbill</LastName>
  <FirstName>Charles</FirstName>
  <MiddleName>William</MiddleName>
  <PreferredName>Chuck</PreferredName>
</Name>
```

Example A.463-1: NameType

A.464 NCESIdType

This is a common element used to define the identifier assigned by the National Center for Education Statistics that is associated with an entity. It is used in SchoolInfo, LEAInfo, and other objects.

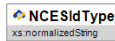


Figure A.464-1: NCESIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
NCESIdType			This is a common element used to define the identifier assigned by the National Center for Education Statistics that is associated with an entity. It is used in SchoolInfo, LEAInfo, and other objects.	xs:normalizedString

Table A.464-1: NCESIdType

JSON XML

```
<NCESId>421575000945</NCESId>
```

Example A.464-1: NCESIdType

A.465 NeglectedDelinquentType

Is the student participating in programs for neglected, delinquent, or at risk children?



Figure A.465-1: NeglectedDelinquentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
NeglectedDelinquentType			Is the student participating in programs for neglected, delinquent, or at risk children?	values: Yes No Unknown

Table A.465-1: NeglectedDelinquentType

JSON XML

```
<NeglectedDelinquent>No</NeglectedDelinquent>
```

Example A.465-1: NeglectedDelinquentType

A.466 NeglectedOrDelinquentParticipationListType

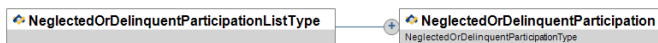


Figure A.466-1: NeglectedOrDelinquentParticipationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
NeglectedOrDelinquentParticipationListType				List
NeglectedOrDelinquentParticipation	MR		The type and number of days a student participated in a Neglected or Delinquent program during the reporting period.	NeglectedOrDelinquentParticipationType

Table A.466-1: NeglectedOrDelinquentParticipationListType

A.467 NeglectedOrDelinquentParticipationType

The type and number of days a student participated in a Neglected or Delinquent program during the reporting period.

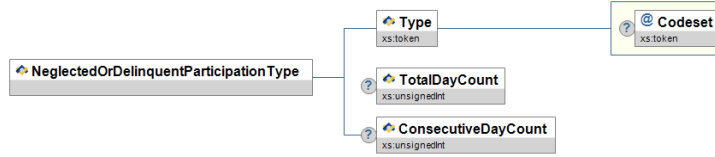


Figure A.467-1: NeglectedOrDelinquentParticipationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
NeglectedOrDelinquentParticipationType			The type and number of days a student participated in a Neglected or Delinquent program during the reporting period.	
Type	M		The specific classification for the neglected or delinquent program.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
TotalDayCount	O		The total number of instructional days the student was enrolled in this neglected or delinquent program during this reporting period.	xs:unsignedInt
ConsecutiveDayCount	O		The highest number of consecutive instructional days the student was enrolled in this neglected or delinquent program. This may or may not match the TotalDayCount for the reporting period.	xs:unsignedInt

Table A.467-1: NeglectedOrDelinquentParticipationType

A.468 NonpromotionType

This element is mutually exclusive with Promotion, and its child elements should only be populated if the value of PromotionStatus is "Retained" or "Demoted".

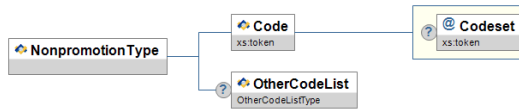


Figure A.468-1: NonpromotionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
NonpromotionType	O		This element is mutually exclusive with Promotion, and its child elements should only be populated if the value of PromotionStatus is "Retained" or "Demoted".	
Code	M	000531 https://ceds.ed.gov/element/000531	The reason the student was promoted. This element should only be populated if the value of PromotionStatus is "Promoted".	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.468-1: NonpromotionType

A.469 ObjectNameType

An unenumerated SIF object name.



Figure A.469-1: ObjectNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ObjectNameType			An unenumerated SIF object name.	xs:NcName [minLength="1" max="64"]

Table A.469-1: ObjectNameType

A.470 ObjectType

A SIF XML object.

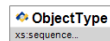


Figure A.470-1: ObjectType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ObjectType			A SIF XML object.	xs:sequence... <xs:sequence base="xs:sequence" minOccurs="1" maxOccurs="unbounded" namespace="##any" />

Table A.470-1: ObjectType

A.471 OffenderListType

List of offenders.



Figure A.471-1: OffenderListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OffenderListType	M		List of offenders.	List
Offender	MR		Information regarding the offender(s)/perpetrator(s).	OffenderType

Table A.471-1: OffenderListType

A.472 OffenderType

Information regarding the offender(s)/perpetrator(s).

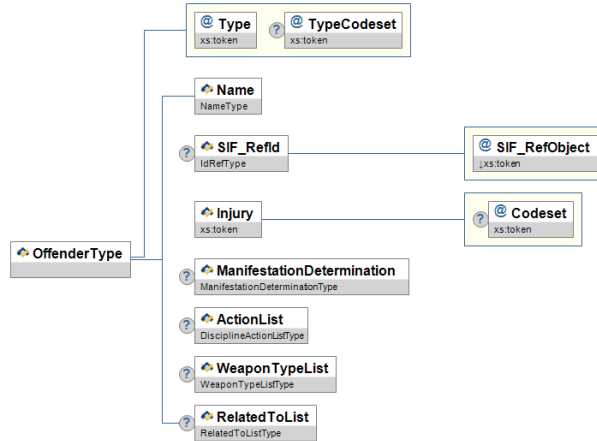


Figure A.472-1: OffenderType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OffenderType	MR		Information regarding the offender(s)/perpetrator(s).	
@ Type	M		Identifies the type of offender involved in the incident.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Name	M		The name of the offender.	NameType
SIF_RefId	C		If the Offender Type attribute identifies the offender as a Student or Staff Member, then this element should contain the Id (GUID) of the student or staff to whom this information relates.	IdRefType
@ SIF_RefObject	M		SIF Object to which the SIFRefId relates.	values: StudentPersonal StaffPersonal EmployeePersonal
Injury	M	000510 https://ceds.ed.gov/element/000510	Identifies whether or not this specific offender was physically injured, and if so, identifies whether the injury was major or minor.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
ManifestationDetermination	O		Information relating to a manifestation determination meeting.	ManifestationDeterminationType
ActionList	O		List of actions taken. Note: There is also a SIF type called ActionList. It is one of two types of lists. Do not confuse this element with the SIF type called ActionList. This problem will be resolved in the next major release.	DisciplineActionListType
WeaponTypeList	C		List of weapons involved in the incident used by the offender. If the incident involves weapons, the element must have a value. Each weapon used by the offender is identified by a WeaponType entry. When multiple weapons of a single type are used by the offender, each weapon has a separate entry in this list. (Note: All weapons used in the incident are reported in WeaponTypeList entries for the incident, including those weapons related to this offender.)	WeaponTypeListType
RelatedToList	O		List of categories to which the offender's incident is related.	RelatedToListType

Table A.472-1: OffenderType

A.473 OldAddressType

This element represents an address. This element occurs within objects and elements such as StaffPersonal and StudentPersonal/StudentAddress, etc.

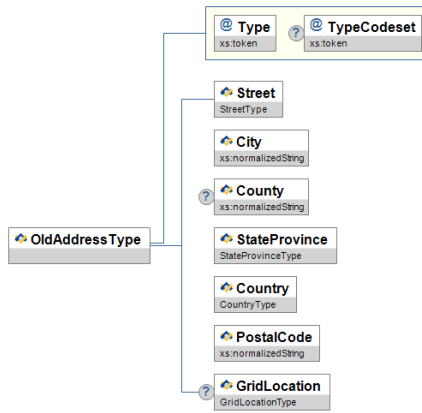


Figure A.473-1: OldAddressType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OldAddressType	M		This element contains address data.	
@ Type	M	000010 https://ceds.ed.gov/element/000010	Code that defines the location of the address. Note: A subset of specific valid values for each instance in a data object may be listed in that object.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Street	M		The street element is a complex element and breaks the street down into several parts.	StreetType
City	M	000040 https://ceds.ed.gov/element/000040	The city part of the address.	xs:normalizedString
County	O	000190 https://ceds.ed.gov/element/000190	The county part of the address.	xs:normalizedString
StateProvince	M	000267 https://ceds.ed.gov/element/000267	The state or province code.	StateProvinceType
Country	M		The country code.	CountryType
PostalCode	M	000214 https://ceds.ed.gov/element/000214	The ZIP/postal code.	xs:normalizedString
GridLocation	O	000597 https://ceds.ed.gov/element/000597	The location of the address.	GridLocationType

Table A.473-1: OldAddressType

A.474 OldFundingSourceType

Provider of funds for the program or service.

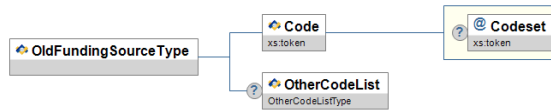


Figure A.474-1: OldFundingSourceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OldFundingSourceType			Provider of funds for the program or service.	
Code	M	000552 https://ceds.ed.gov/element/000552	Provider of funds for the program or service.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.474-1: OldFundingSourceType

A.475 OnTimeGraduationYearType

First projected graduation year, usually determined when student is accepted into 9th grade (CCYY).

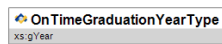


Figure A.475-1: OnTimeGraduationYearType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OnTimeGraduationYearType			First projected graduation year, usually determined when student is accepted into 9th grade (CCYY).	xs:gYear

Table A.475-1: OnTimeGraduationYearType

JSON XML

```
<@TimeGraduationYear>2006</@TimeGraduationYear>
```

A.476 OperationalStatusType

This common element contains status information about a school, LEA, or other institution.



Figure A.476-1: OperationalStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OperationalStatusType			Operational condition of an institution. For schools, use 0256 School Status Type. For LEAs, use 0032 Agency Status.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.476-1: OperationalStatusType

JSON XML

```
<OperationalStatus>0256</OperationalStatus>
```

Example A.476-1: OperationalStatusType

A.477 OrganizationListType

Names of organizations



Figure A.477-1: OrganizationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OrganizationListType			Names of organizations	list
Organization	MR	000699 https://ceds.ed.gov/element/000699	Name of organization	xs:normalizedString

Table A.477-1: OrganizationListType

A.478 OrganizationRelationshipType

Provides information about a student's relationship to an organization.

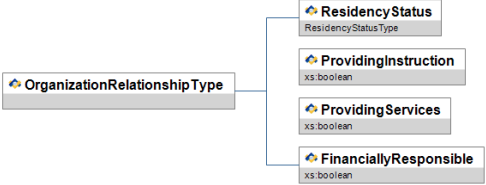


Figure A.478-1: OrganizationRelationshipType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OrganizationRelationshipType			Provides information about a student's relationship to an organization.	
ResidencyStatus	M			ResidencyStatusType
ProvidingInstruction	M		Flag that indicates if the reporting organization is providing instruction to the student.	xs:boolean
ProvidingServices	M		Flag that indicates if the reporting organization is providing services that are not related to instruction to the student. An example of a non-instructional service is transportation.	xs:boolean
FinanciallyResponsible	M		Flag that indicates if the reporting organization is financially responsible for the student.	xs:boolean

Table A.478-1: OrganizationRelationshipType

A.479 OriginPointType

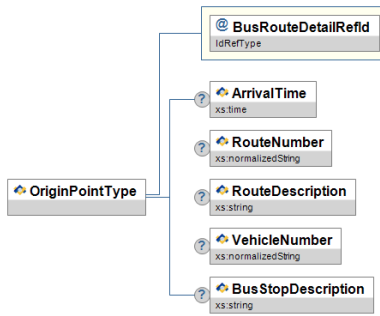


Figure A.479-1: OriginPointType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OriginPointType				
@ BusRouteDetailRefId	M		GUID that identifies the bus stop/route where the student gets on the bus.	IdRefType
ArrivalTime	O		The time that the bus associated with this route will stop at this bus stop.	xs:time
RouteNumber	O		A unique identifier for the route. For instance, you may have route 16AM in the morning and a 16PM in the afternoon.	xs:normalizedString
RouteDescription	O		Short explanation of the route.	xs:string
VehicleNumber	O		Vehicle number of the bus.	xs:normalizedString
BusStopDescription	O		An explanation of this location.	xs:string

Table A.479-1: OriginPointType

A.480 OtherCodeListType

List of other codes or strings that crosswalk to or serve as translations of the code element paired with this common element. If code changes and otherCodes are supported, both Code and all associated otherCode elements must be present.



Figure A.480-1: OtherCodeListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OtherCodeListType			List of other codes or strings that crosswalk to or serve as translations of the Code element paired with this common element. If code changes and otherCodes are supported, both Code and all associated otherCode elements must be present.	List
OtherCode	MR	000036 https://ceds.ed.gov/element/000036	A state/province code, local code, other code or a text string that crosswalks to or serves as a translation of an associated code element.	xs:token
@ Codeset	M		Describes the otherCode element content as either a state/province code, a local code, other code, or text string.	values: StateProvince Local Other Text

Table A.480-1: OtherCodeListType

```

JSON XML
<OtherCodeList>
  <OtherCode Codeset="Local"></OtherCode>
  <OtherCode Codeset="Text"><OtherCode>
</OtherCodeList>
    
```

Example A.480-1: OtherCodeListType

A.481 OtherIdListType

Common XML structure for a list of other Ids related to the object.



Figure A.481-1: OtherIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OtherIdListType	O		Common XML structure for a list of other Ids related to the object.	List
OtherId	MR		The other Id entry.	OtherIdType

Table A.481-1: OtherIdListType

```

JSON XML
<OtherIdList>
  <OtherId Type="0004">590651225</OtherId>
  <OtherId Type="9999">3333</OtherId>
</OtherIdList>
    
```

Example A.481-1: OtherIdListType

A.482 OtherIdType

An "other" identifier associated with a person. This element occurs in objects such as StudentPersonal and StaffPersonal, etc.

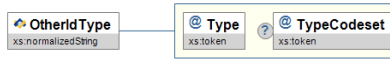


Figure A.482-1: OtherIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OtherIdType			An "other" identifier associated with a person. This element occurs in objects such as StudentPersonal and StaffPersonal, etc.	xs:normalizedString
@Type	M		Code that defines the type of this other Id. Note: A subset of valid values may be specified in data objects.	xs:token
@TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.482-1: OtherIdType

```

JSON
XML
<OtherId Type="0004">333333333</OtherId>
    
```

Example A.482-1: OtherIdType

A.483 OtherLEAListType

The Id (GUID) of an other related education agency, such as a regional service agency.

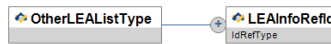


Figure A.483-1: OtherLEAListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OtherLEAListType			The Id (GUID) of an other related education agency, such as a regional service agency.	List
LEAInfoRefId	MR			IdRefType

Table A.483-1: OtherLEAListType

A.484 OtherNamesType

Previous, alternate or other names or aliases associated with a person.

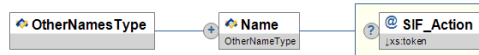


Figure A.484-1: OtherNamesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OtherNamesType	O		Previous, alternate or other names or aliases associated with a person.	ActionList (Name/Type)
Name	MR	000206 https://ceds.ed.gov/element/000206	Name of the person. Note: Type value of 04 may not occur here.	Extension of OtherNameType
@SIF_Action	O		In a change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum the key for the list must also be present.	values: Delete

Table A.484-1: OtherNamesType

```

JSON
XML
<OtherNames>
  <Name Type="01">
    <LastName>Anderson</LastName>
    <FirstName>Susan</FirstName>
  </Name>
  <Name Type="02">
    <LastName>Kowinski</LastName>
    <FirstName>Susan</FirstName>
  </Name>
</OtherNames>
    
```

Example A.484-1: OtherNamesType

A.485 OtherNameType

Extends BaseNameType to allow for type attribute values excluding "name of record." Used for other names to be included in addition to the name of record in objects like StudentPersonal.



Figure A.485-1: OtherNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OtherNameType			Extends baseNameType to allow for type attribute values excluding "name of record." Used for other names to be included in addition to the name of record in objects like StudentPersonal.	Extension of baseNameType
Prefix	O		A prefix associated with the name like Mr., Ms., etc.	xs:normalizedString
LastName	M		The last name.	lastNameType
FirstName	M		The first name.	firstNameType
MiddleName	O		The middle name or initial.	middleNameType
Suffix	O		Generation of suffix like II, Jr., etc.	xs:normalizedString
PreferredName	O		This is a name that the person prefers to be called by.	xs:normalizedString
SortName	O		This is the name to be used for sorting purposes.	xs:normalizedString
FullName	O		A free text field for the complete name.	xs:normalizedString
@Type	M	000634 https://ceds.ed.gov/element/000634	Code that specifies what type of name this is, excluding "name of record."	xs:token
@TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.485-1: OtherNameType

A.486 OtherStudentRecordListType

Other records or content not defined by SIF, but associated with the student. Wrapped in StudentRecordPackage.



Figure A.486-1: OtherStudentRecordListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
OtherStudentRecordListType			Other records or content not defined by SIF, but associated with the student. Wrapped in StudentRecordPackage.	List
StudentRecordPackageRefId	MR			IdRefType

Table A.486-1: OtherStudentRecordListType

A.487 PartCTransitionMeetingNotHeldReasonListType



Figure A.487-1: PartCTransitionMeetingNotHeldReasonListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PartCTransitionMeetingNotHeldReasonListType				List
PartCTransitionMeetingNotHeldReason	MR		PartCTransitionMeetingNotHeldReasonType	

Table A.487-1: PartCTransitionMeetingNotHeldReasonListType

A.488 PartCTransitionMeetingNotHeldReasonType

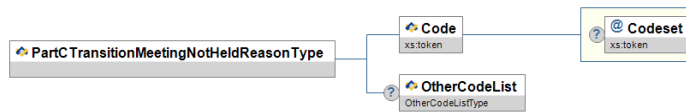


Figure A.488-1: PartCTransitionMeetingNotHeldReasonType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PartCTransitionMeetingNotHeldReasonType				
Code	M		A reason why the Part C transition meeting was not held.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.488-1: PartCTransitionMeetingNotHeldReasonType

A.489 PartCTransitionMeetingOutcomeListType

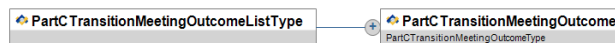


Figure A.489-1: PartCTransitionMeetingOutcomeListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PartCTransitionMeetingOutcomeListType	O			List
PartCTransitionMeetingOutcome	MR		PartCTransitionMeetingOutcomeType	

Table A.489-1: PartCTransitionMeetingOutcomeListType

A.490 PartCTransitionMeetingOutcomeType

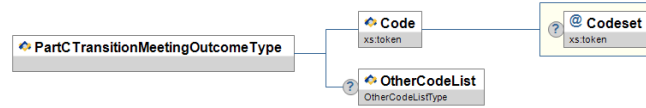


Figure A.490-1: PartCTransitionMeetingOutcomeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PartCTransitionMeetingOutcomeType				
Code	M		An outcome of a Part C transition meeting.	xs.token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs.token
OtherCodeList	O			OtherCodeListType

Table A.490-1: PartCTransitionMeetingOutcomeType

A.491 PartialDateType

A year, with an optional month/day, or an optional month by itself.

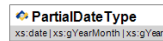


Figure A.491-1: PartialDateType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PartialDateType			A year, with an optional month/day, or an optional month by itself.	union of: xs:date xs:gYearMonth xs:gYear

Table A.491-1: PartialDateType

A.492 PasswordListType

Allows a provider or publisher to specify the same password using multiple algorithms, if supported.



Figure A.492-1: PasswordListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PasswordListType	O		Allows a provider or publisher to specify the same password using multiple algorithms, if supported.	List
Password	MR		A representation of the user's password using the given algorithm.	PasswordType

Table A.492-1: PasswordListType

A.493 PasswordType

A representation of the user's password using the given algorithm.

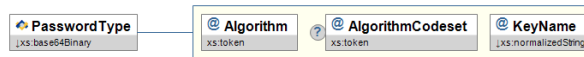


Figure A.493-1: PasswordType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PasswordType			A representation of the user's password using the given algorithm.	xs:base64Binary xs:maxLength="255"
@ Algorithm	M		The method used to encrypt the user's password. See the implementation details below.	xs.token
@ AlgorithmCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs.token
@ KeyName	M		The name of the key to be used for decryption of the password. Left blank for plain, encoded text (Algorithm attribute value of "base64") and hash algorithms.	xs:normalizedString xs:maxLength="64"

Table A.493-1: PasswordType

A.494 PayRateListType



Figure A.494-1: PayRateListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PayRateListType				List
PayRate	MR		Per pay distributions	PayRateType

Table A.494-1: PayRateListType

A.495 PayRateType

Per pay distributions

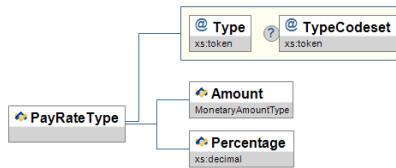


Figure A.495-1: PayRateType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PayRateType			Per pay distributions	
@ Type	M		Type of pay	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Amount	M		Pay amount.	MonetaryAmountType
Percentage	M		Percentage of pay this represents.	xs:decimal

Table A.495-1: PayRateType

A.496 PerformanceIndicatorListType

The specific measurement goals at the end of the intervention that each student should reach.

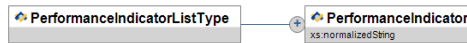


Figure A.496-1: PerformanceIndicatorListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PerformanceIndicatorListType			The specific measurement goals at the end of the intervention that each student should reach.	List
PerformanceIndicator	MR		The specific measurement goal at the end of the intervention that each student should reach.	xs:normalizedString

Table A.496-1: PerformanceIndicatorListType

A.497 PerformanceLevelListType

Performance Levels are an ordered set of categories that indicate the achievement level of a person on an assessment.

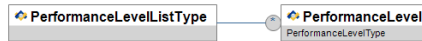


Figure A.497-1: PerformanceLevelListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PerformanceLevelListType			Performance Levels are an ordered set of categories that indicate the achievement level of a person on an assessment.	List
PerformanceLevel	OR		Defines cut scores for placing students in an appropriate performance level.	PerformanceLevelType

Table A.497-1: PerformanceLevelListType

A.498 PerformanceLevelType

Defines cut scores for placing students in an appropriate performance level.

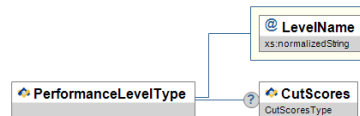


Figure A.498-1: PerformanceLevelType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PerformanceLevelType			Defines cut scores for placing students in an appropriate performance level.	
@ LevelName	M	000717 https://ceds.ed.gov/element/000717	The name of the performance level.	xs:normalizedString
CutScores	O		Score bounds for the performance level.	CutScoresType

Table A.498-1: PerformanceLevelType

A.499 PeriodType

Period between two dates.

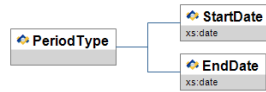


Figure A.499-1: PeriodType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PeriodType			Period between two dates.	
StartDate	M		Start date.	xs:date
EndDate	M		End date.	xs:date

Table A.499-1: PeriodType

A.500 PersonIdType

The state-assigned identifier for this person. This will probably not be the same State Province Id as the one assigned to the various roles such as StudentPersonal.

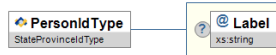


Figure A.500-1: PersonIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PersonIdType			The state-assigned identifier for this person. This will probably not be the same State Province Id as the one assigned to the various roles such as StudentPersonal.	StateProvinceIdType
@Label	O		The label associated with this id for instance: "MPI ID" or "P20ID".	xs:string

Table A.500-1: PersonIdType

A.501 PersonInfoType

A wrapper element for information that describes a generic person. This element may be used as a basic building block for person-type objects.

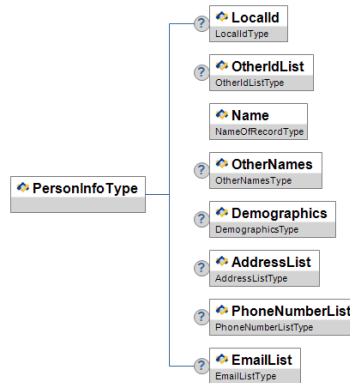


Figure A.501-1: PersonInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PersonInfoType			A wrapper element for information that describes a generic person. This element may be used as a basic building block for person-type objects.	
LocalId	O		The locally-assigned identifier for this person. Note: LocalId may be used as a unique person identifier rather than a unique contact identifier. In this case there may be more than one object instance with the same LocalId.	LocalIdType
OtherIdList	O		Lists all "other" identifiers associated with the person.	OtherIdListType
Name	M		The name of the person. Note: Type attribute value of 04 must be used here.	NameOfRecordType
OtherNames	O		Previous, alternate or other names or aliases associated with the person.	OtherNamesType
Demographics	O		This element contains information related to person's demographics.	DemographicsType
AddressList	O		The person's address(es).	AddressListType
PhoneNumberList	O		The person's phone number(s).	PhoneNumberListType
EmailList	O		The person's e-mail address(es).	EmailListType

Table A.501-1: PersonInfoType

```

JSON XML
<PersonInfo>
  <name Type="id">
    <lastName>Johnson</lastName>
    <firstName>Alicia</firstName>
  </name>
  <demographics>
    <gender>F</gender>
  </demographics>
  <addressList>
    <address Type="0123">
      <street>
        <line1>4799 33rd Ave.</line1>
        <streetNumber>4799</streetNumber>
        <streetName>33rd</streetName>
        <streetType>Ave.</streetType>
      </street>
      <city>Chicago</city>
      <stateProvince>IL</stateProvince>
      <countyFIPS>Country</countyFIPS>
      <postalCode>60660</postalCode>
    </address>
  </addressList>

```

A.502 PhoneNumberListType

Lists phone numbers associated with an entity.



Figure A.502-1: PhoneNumberListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PhoneNumberListType			Lists phone numbers associated with an entity.	ActionList (PhoneNumber/#Type)
PhoneNumber	MR			Extension of PhoneNumberType
@ SIF_Action	O		In a change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum the key for the list must also be present.	Values: Delete

Table A.502-1: PhoneNumberListType

```

JSON XML
<PhoneNumberList>
  <PhoneNumber Type="0096">
    <number>555 555-0103</number>
  </PhoneNumber>
</PhoneNumberList>

```

Example A.502-1: PhoneNumberListType

A.503 PhoneNumberType

This element represents a phone number and occurs within objects such as StudentPersonal, StaffPersonal, etc.

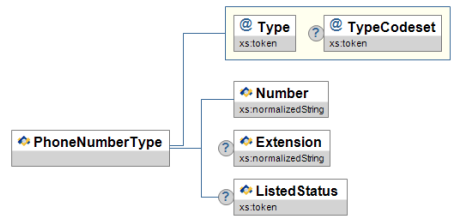


Figure A.503-1: PhoneNumberType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PhoneNumberType			This element represents a phone number and occurs within objects such as StudentPersonal, StaffPersonal, etc.	
@ Type	M	000280 https://ceds.ed.gov/element/000280	Code that specifies what type of phone number this is. Note: A subset of valid values may be specified in data objects.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Number	M	000279 https://ceds.ed.gov/element/000279	Phone number. Free-form, but typical U.S. formats include: <ul style="list-style-type: none"> (###) ###-#### ###-#### 	xs:normalizedString
Extension	O	000279 https://ceds.ed.gov/element/000279	Phone number extension.	xs:normalizedString
ListedStatus	O		Indicates whether or not the phone number is available to the public.	xs:token

Table A.503-1: PhoneNumberType

```

JSON XML
<PhoneNumber Type="0096">
  <number>(312) 555-1234</number>
  <extension>245</extension>
</PhoneNumber>

```

Example A.503-1: PhoneNumberType

A.504 PictureSourceType

This element defines the picture. If the Type attribute is URL, this is the location of the picture in [JPEG] format; if Type is JPEG, this is the [JPEG] image data encoded using the Base64 Content-Transfer-Encoding defined in Section 6.8 of [RFC 2045].

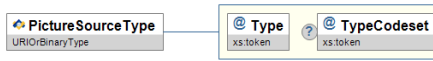


Figure A.504-1: PictureSourceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PictureSourceType	M		This element defines the picture. If the Type attribute is URL, this is the location of the picture in [JPEG] format; if Type is JPEG, this is the [JPEG] image data encoded using the Base64 Content-Transfer-Encoding defined in Section 6.8 of [RFC 2045].	URIOrBinaryType
@Type	M		The way the picture is specified.	xs:token
@TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.504-1: PictureSourceType

A.505 PrerequisiteListType

Skills or competencies the student must have to engage in activity or assignment.



Figure A.505-1: PrerequisiteListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PrerequisiteListType			Skills or competencies the student must have to engage in activity or assignment.	List
Prerequisite	OR		Skill or competency the student must have to engage in activity or assignment.	xs:string

Table A.505-1: PrerequisiteListType

A.506 PrimaryAssignmentType

Is this the person's primary assignment?

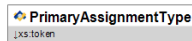


Figure A.506-1: PrimaryAssignmentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PrimaryAssignmentType			Is this the person's primary assignment?	values: true false

Table A.506-1: PrimaryAssignmentType

A.507 PrincipalInfoType

Information about the school's principal.

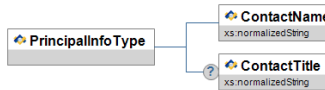


Figure A.507-1: PrincipalInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PrincipalInfoType	O		Information about the school's principal.	
ContactName	M		The name of the principal.	xs:normalizedString
ContactTitle	O		The principal's title.	xs:normalizedString

Table A.507-1: PrincipalInfoType

A.508 ProgramAvailabilityListType

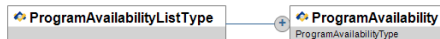


Figure A.508-1: ProgramAvailabilityListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ProgramAvailabilityListType				List
ProgramAvailability	MR			ProgramAvailabilityType

Table A.508-1: ProgramAvailabilityListType

A.509 ProgramAvailabilityType

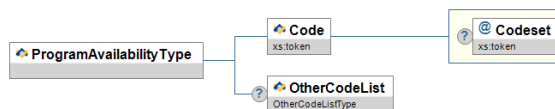


Figure A.509-1: ProgramAvailabilityType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ProgramAvailabilityType	O			
Code	M		Describes the availability of the program.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.509-1: ProgramAvailabilityType

A.510 ProgramExitReasonType

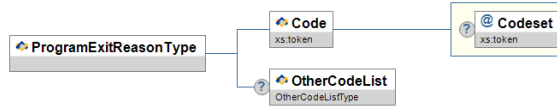


Figure A.510-1: ProgramExitReasonType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ProgramExitReasonType	O			
Code	M	000260 https://ceds.ed.gov/element/000260	Review by program / state. May be required if student has exited the program.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.510-1: ProgramExitReasonType

A.511 ProgramFundingSourceListType



Figure A.511-1: ProgramFundingSourceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ProgramFundingSourceListType				list
ProgramFundingSource	MR			ProgramFundingSourceType

Table A.511-1: ProgramFundingSourceListType

A.512 ProgramFundingSourceType

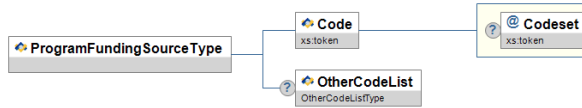


Figure A.512-1: ProgramFundingSourceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ProgramFundingSourceType				
Code	M		Funding source for the program, may be more than one.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.512-1: ProgramFundingSourceType

A.513 ProgramPlanType

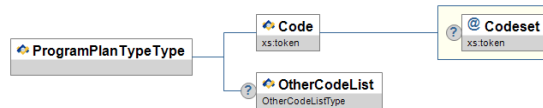


Figure A.513-1: ProgramPlanType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ProgramPlanType				
Code	M	000469 https://ceds.ed.gov/element/000469	The document that outlines the student program/plan as approved by parents, guardians, and staff.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.513-1: ProgramPlanType

A.514 ProgramStatusType

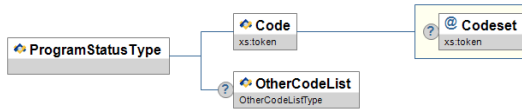


Figure A.514-1: ProgramStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ProgramStatusType				
Code	M		The current status of the student's program participation.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.514-1: ProgramStatusType

JSON XML

```

<ProgramStatus>
  <code>S04</code>
</ProgramStatus>
  
```

Example A.514-1: ProgramStatusType

A.515 ProgramTypeType

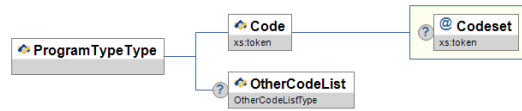


Figure A.515-1: ProgramTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ProgramTypeType				
Code	M		Identifies the individualized program for which the student's participation is described in this instance.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.515-1: ProgramTypeType

JSON XML

```

<ProgramType>
  <code>27</code>
  <otherCodeList>
  <otherCode Codeset="StateProvince">0839</otherCode>
  </otherCodeList>
</ProgramType>
  
```

Example A.515-1: ProgramTypeType

A.516 ProjectedGraduationYearType

Currently projected graduation year.

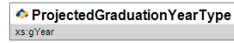


Figure A.516-1: ProjectedGraduationYearType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ProjectedGraduationYearType			Currently projected graduation year (CCYY).	xs:gYear

Table A.516-1: ProjectedGraduationYearType

JSON XML

```

<ProjectedGraduationYear>2004</ProjectedGraduationYear>
  
```

Example A.516-1: ProjectedGraduationYearType

A.517 PromotionInfoType

Information on a student's promotion, retention, or demotion related to this enrollment instance.

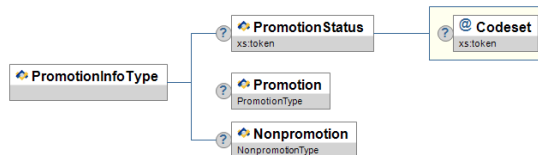


Figure A.517-1: PromotionInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PromotionInfoType	O		Information on a student's promotion, retention, or demotion related to this enrollment instance.	
PromotionStatus	O		This value should be set if this enrollment instance is closed for an end-of-year closeout or a mid-year promotion or demotion. A value other than NA should be specified when the enrollment instance represents an end-of-year closeout or mid-year promotion/demotion.	xs:token
CodeSet	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Promotion	O		This element is mutually exclusive with Nonpromotion, and its child elements should only be populated if the value of PromotionStatus is "Promoted".	PromotionType
Nonpromotion	O		This element is mutually exclusive with Promotion, and its child elements should only be populated if the value of PromotionStatus is "Retained" or "Demoted".	NonpromotionType

Table A.517-1: PromotionInfoType

A.518 PromotionType

This element is mutually exclusive with Nonpromotion, and its child elements should only be populated if the value of PromotionStatus is "Promoted".

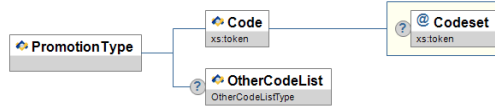


Figure A.518-1: PromotionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PromotionType	O		This element is mutually exclusive with Nonpromotion, and its child elements should only be populated if the value of PromotionStatus is "Promoted".	
Code	M	000530 https://ceds.ed.gov/element/000530	The reason the student was promoted. This element should only be populated if the value of PromotionStatus is "Promoted".	xs:token
CodeSet	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.518-1: PromotionType

A.519 PublishInDirectoryType

This is a common element used to specify whether or not information (e.g., contact information) should be published in a directory. It is used in the SchoolInfo and LEAInfo objects.



Figure A.519-1: PublishInDirectoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PublishInDirectoryType			Indicates whether or not information should be published in a directory.	values: Yes No

Table A.519-1: PublishInDirectoryType

```

    JSON [ ] XML [ ]
    <PublishInDirectoryType>Yes</PublishInDirectoryType>
  
```

Example A.519-1: PublishInDirectoryType

A.520 PurchasingItemListType



Figure A.520-1: PurchasingItemListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PurchasingItemListType				List
PurchasingItem	MR		Contains information about the item being purchased.	PurchasingItemType

Table A.520-1: PurchasingItemListType

A.521 PurchasingItemType

Contains information about the item being purchased.

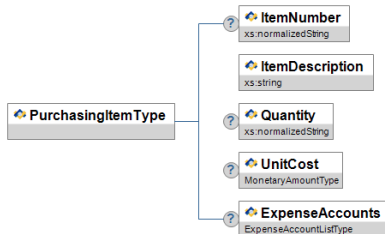


Figure A.521-1: PurchasingItemType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
PurchasingItemType			Contains information about the item being purchased.	
ItemNumber	O		Vendor item number.	xs:normalizedString
ItemDescription	M		Description of the item.	xs:string
Quantity	O		Quantity ordered.	xs:normalizedString
UnitCost	O		Unit cost of the item.	MonetaryAmountType
ExpenseAccounts	O			ExpenseAccountListType

Table A.521-1: PurchasingItemType

A.522 RaceCodeType

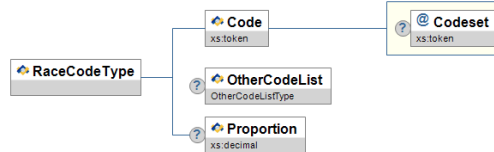


Figure A.522-1: RaceCodeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RaceCodeType	MR			
Code	M		The general racial category which reflects the individual's recognition of his or her community or with which the individual most identifies. In a given SIF implementation Agents must have alignment on the use of the NCES and deprecated SPEEDE code sets. Agents are not required to translate between the code sets.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType
Proportion	O		A percentage associated with the race.	xs:decimal

Table A.522-1: RaceCodeType

A.523 RaceListType

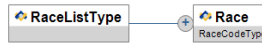


Figure A.523-1: RaceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RaceListType				List
Race	MR			RaceCodeType

Table A.523-1: RaceListType

```

JSON
XML

<RaceList>
  <Race>
    <Code>1002</Code>
  </Race>
</RaceList>
  
```

Example A.523-1: RaceListType

A.524 RecognitionListType

List of awards and other types of recognition given to the student for this activity.

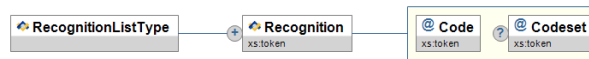


Figure A.524-1: RecognitionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RecognitionListType	O		List of awards and other types of recognition given to the student for this activity.	List
Recognition	MR		The nature of recognition given to the student for the successful completion of work in a co-curricular or extra-curricular activity.	xs:token
@ Code	M			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.524-1: RecognitionListType

A.525 ReferenceType

References external content via a URL.

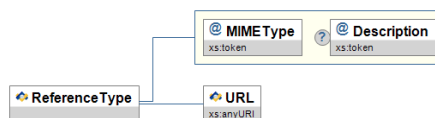


Figure A.525-1: ReferenceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ReferenceType	C		References external content via a URL.	
@MIMETYPE	M		MIME type to indicate the content type to be expected when retrieving the external content.	xs:token
@Description	O		Contains an optional description of the content or a processing hint with regard to its structure (e.g. named standard, file layout or XSD). Contents may be mandated in instances of this type, or types that follow the AbstractContentPackageType pattern.	xs:token
URL	M		Location of external content.	xs:anyURI

Table A.525-1: ReferenceType

A.526 ReferralSourceType

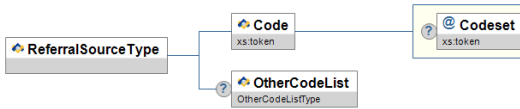


Figure A.526-1: ReferralSourceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ReferralSourceType	O			
Code	M		The method by which a student was identified for referral to a particular program.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.526-1: ReferralSourceType

A.527 RefIdType

An object or element identifier.



Figure A.527-1: RefIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RefIdType			An object or element identifier.	GUIDType

Table A.527-1: RefIdType

A.528 RelatedLearningStandardItemRefIdListType

Associated LearningStandardItem objects, capturing the type of relation.

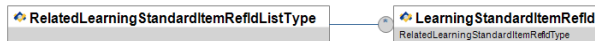


Figure A.528-1: RelatedLearningStandardItemRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RelatedLearningStandardItemRefIdListType			Associated LearningStandardItem objects, capturing the type of relation.	List
LearningStandardItemRefId	OR		Link to associated LearningStandardItem object.	RelatedLearningStandardItemRefIdType

Table A.528-1: RelatedLearningStandardItemRefIdListType

A.529 RelatedLearningStandardItemRefIdType

Link to associated LearningStandardItem object.

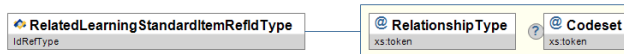


Figure A.529-1: RelatedLearningStandardItemRefIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RelatedLearningStandardItemRefIdType	OR		Link to associated LearningStandardItem object.	IdRefType
@RelationshipType	M		Type of the relationship between the current standard and the target standard. The value identifies the type of standard of the target item. The purpose of this information is to allow applications to sort/display these relationships in the appropriate context.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.529-1: RelatedLearningStandardItemRefIdType

A.530 RelatedToListType

List of categories to which the incident is related.



Figure A.530-1: RelatedToListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RelatedToListType	O		List of categories to which the incident is related.	List
RelatedTo	OR	000509 https://ceds.ed.gov/element/000509	Identifies if incident was related to a specific category.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.530-1: RelatedToListType

A.531 RelationshipType

Code that defines the relationship of one person to another.

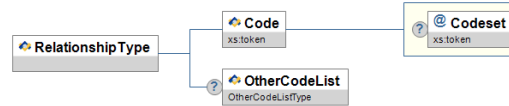


Figure A.531-1: RelationshipType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RelationshipType			Code that defines the relationship of one person to another.	
Code	M	000721 https://ceds.ed.gov/element/000721	Code representing the relationship.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.531-1: RelationshipType

```

JSON
XML
<?xml version="1.0" encoding="UTF-8" ?>
<RelationshipType
  <Code id="1735" />
  </RelationshipType>
    
```

Example A.531-1: RelationshipType

A.532 ReportDataObjectType

A SIF XML object.



Figure A.532-1: ReportDataObjectType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ReportDataObjectType			A SIF XML object.	<<xs:sequence>> <xs:any processContents="lax" minOccurs="0" maxOccurs="unbounded" /> </xs:sequence>

Table A.532-1: ReportDataObjectType

A.533 ReportFormatListType

An optional list of one or more third-party formats that describe the visual representation of the report data. If more than one report format is associated with a manifest, the implementation can choose the most applicable format by examining the ContentType attribute.



Figure A.533-1: ReportFormatListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ReportFormatListType	O		An optional list of one or more third-party formats that describe the visual representation of the report data. If more than one report format is associated with a manifest, the implementation can choose the most applicable format by examining the ContentType attribute.	List
ReportFormat	MR		A third-party format that describes the visual representation of the report data.	ReportFormatType

Table A.533-1: ReportFormatListType

A.534 ReportFormatType

A third-party format that describes the visual representation of the report data.



Figure A.534-1: ReportFormatType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ReportFormatType	MR		A third-party format that describes the visual representation of the report data.	xs:string
@Type	M		This attribute indicates the encoding of the format reference.	values: URL Embedded Binary
@ContentType	M		The vendor-defined content type (e.g. com.vendor.format.pdf, etc).	xs:normalizedString

Table A.534-1: ReportFormatType

A.535 ReportInfoType

Identifies the manifest for the report and characteristics of the submission. This element is a conditional element. This element, the ReportData element, or the SIF_ExtendedQueryResults element is included but never more than one at the same time within an instance of this object. See examples of the usage of the object below.

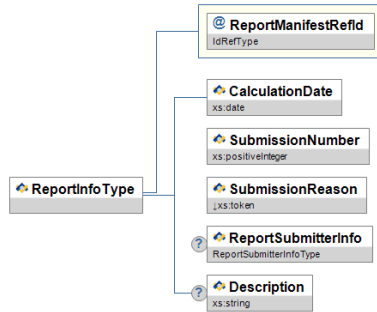


Figure A.535-1: ReportInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ReportInfoType			Identifies the manifest for the report and characteristics of the submission. This element is a conditional element. This element, the ReportData element, or the SIF_ExtendedQueryResults element is included but never more than one at the same time within an instance of this object. See examples of the usage of the object below.	
@ReportManifestRefId	M		The report manifest corresponding to this report.	xs:string
CalculationDate	M		The date on which the report was calculated.	xs:date
SubmissionNumber	M		A number that identifies the submission; beginning at 1 and incremented each time a submission is done for a particular report; used to indicate resubmission(s).	xs:positiveInteger
SubmissionReason	M		Reason for the report submission.	values: Initial Correction Revision Addition
ReportSubmitterInfo	C		Identifies the submitter of the report. This element is conditional depending on the context in which the SIF_ReportObject is used. It must be present in the ReportInfo element when a SIF_ReportObject is sent to a report authority in a SIF_Event message. However, its presence is optional in SIF_ReportObject packets delivered to report authorities in SIF_Response messages.	ReportSubmitterInfoType
Description	O			xs:string

Table A.535-1: ReportInfoType

A.536 ReportingPeriodType

Information on the period of time over which the report spans.

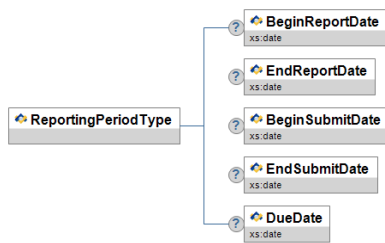


Figure A.536-1: ReportingPeriodType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ReportingPeriodType	O		Information on the period of time over which the report spans.	
BeginReportDate	O		The first date for which the report contains information.	xs:date
EndReportDate	O		The last date for which the report contains information. May be the same as BeginReportDate for snapshot-type reports.	xs:date
BeginSubmitDate	O		The first date on which the report may be submitted to the authority.	xs:date
EndSubmitDate	O		The last date on which the report may be submitted to the authority.	xs:date
DueDate	O		The official due date of the report.	xs:date

Table A.536-1: ReportingPeriodType

A.537 ReportPackageType

This package has exactly the same structure as AbstractContentPackageType. ReportPackage can be used in addition to SIF objects specifically in reporting situations within SIF_ReportObject. At this time, it is not a SIF object. It cannot be requested via SIF_Query or SIF_ExtendedQuery in a ReportManifest. It may be included in SIF_ReportObject as part of an external report definition.



Figure A.537-1: ReportPackageType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ReportPackageType			This package has exactly the same structure as AbstractContentPackageType. ReportPackage can be used in addition to SIF objects specifically in reporting situations within SIF_ReportObject. At this time, it is not a SIF object. It cannot be requested via SIF_Query or SIF_ExtendedQuery in a ReportManifest. It may be included in SIF_ReportObject as part of an external report definition.	Extension of AbstractContentPackageType
@ RefId	M		The GUID that uniquely identifies an instance of the package.	RefIdType
XMLData	C		Contains an arbitrary XML element, encoded in UTF-8.	XMLDataType
TextData	C		Contains arbitrary text, encoded in UTF-8.	TextDataType
BinaryData	C		Contains the base64Binary encoding of binary or text data not encoded in UTF-8.	BinaryDataType
Reference	C		References external content via a URL.	ReferenceType

Table A.537-1: ReportPackageType

A.538 ReportSubmitterInfoType

Identifies the submitter of the report.

This element is conditional depending on the context in which the SIF_ReportObject is used. It must be present in the ReportInfo element when a SIF_ReportObject is sent to a report authority in a SIF_Event message. However, its presence is optional in SIF_ReportObject packets delivered to report authorities in SIF_Response messages.

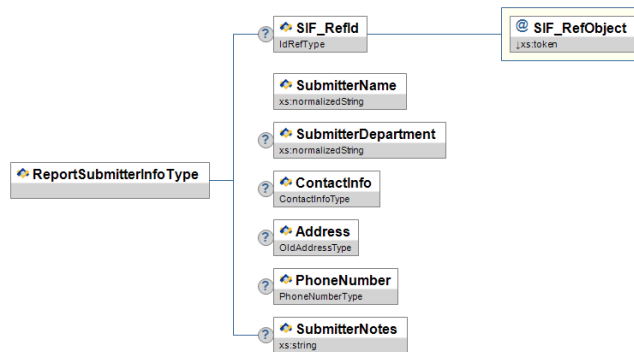


Figure A.538-1: ReportSubmitterInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ReportSubmitterInfoType			Identifies the submitter of the report. This element is conditional depending on the context in which the SIF_ReportObject is used. It must be present in the ReportInfo element when a SIF_ReportObject is sent to a report authority in a SIF_Event message. However, its presence is optional in SIF_ReportObject packets delivered to report authorities in SIF_Response messages.	
SIF_RefId	O		If the submitter is described by another SIF data object such as a SchoolInfo or LEAInfo instance, this element references that object by RefId.	IdRefType
@ SIF_RefObject	M		The name of a SIF data object. When used in the context of ReportSubmitterInfo, this attribute must have one of the following values.	values: LEAInfo The submitter of the SIF_ReportObject is the district or other agency referenced by a LEAInfo object SchoolInfo The submitter of the SIF_ReportObject is the school referenced by a SchoolInfo object
SubmitterName	M		Name of the report submitter. This is a descriptive string that names the entity submitting the SIF_ReportObject to the report authority. It could be the name of an agency, a district, a school, the SIF_SourceId of the submitting agent, or any other string that a report authority could use to identify the submitter of a report. This element may be present regardless of the presence of the SIF_RefId and SIF_RefObject elements. When those elements are used, it is recommended that collector agents reproduce the name of the LEA or school here.	xs:normalizedString
SubmitterDepartment	O		Department, office, or subdivision of the agency submitting the report.	xs:normalizedString
ContactInfo	O		Information on the contact person in this agency submitting the report.	ContactInfoType
Address	O			OIDAddressType
PhoneNumber	O			PhoneNumberType
SubmitterNotes	O		Optional notes for the report authority, such as information about a district's reporting policies and procedures, instructions for contacting the district for technical support, etc.	xs:string

Table A.538-1: ReportSubmitterInfoType

A.539 ResidencyStatusType

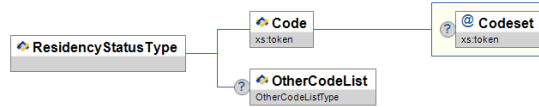


Figure A.539-1: ResidencyStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ResidencyStatusType	M			
Code	M	000532 https://ceds.ed.gov/element/000532	Location of an individual's legal residence relative to (within or outside) the boundaries of the organization.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.539-1: ResidencyStatusType

A.540 ResourceTypesType

Type of resource



Figure A.540-1: ResourceTypesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ResourceTypesType	O		Type of resource	List
ResourceType	MR			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.540-1: ResourceTypesType

A.541 ResponseToInterventionMeasurementListType

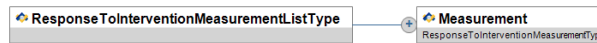


Figure A.541-1: ResponseToInterventionMeasurementListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ResponseToInterventionMeasurementListType	O			List
Measurement	MR			ResponseToInterventionMeasurementType

Table A.541-1: ResponseToInterventionMeasurementListType

A.542 ResponseToInterventionMeasurementType

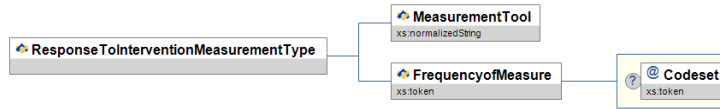


Figure A.542-1: ResponseToInterventionMeasurementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ResponseToInterventionMeasurementType				
MeasurementTool	M		The specific tool that will be used to gather data about how the student is improving.	xs:normalizedString
FrequencyOfMeasure	M		The frequency of the measurement.	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.542-1: ResponseToInterventionMeasurementType

A.543 ResultListType

This represents the results based on each measurement period.



Figure A.543-1: ResultListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ResultListType	O		This represents the results based on each measurement period.	List
Result	MR			xs:normalizedString

Table A.543-1: ResultListType

A.544 RightsElementsType

A list of rights elements.

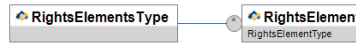


Figure A.544-1: RightsElementsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RightsElementsType			A list of rights elements.	
RightsElement	OR			RightsElement type

Table A.544-1: RightsElementsType

A.545 RightsElementType

A common metadata element designed to carry any intellectual property or copyright information, based on the IEEE LOM Rights element [LOM].

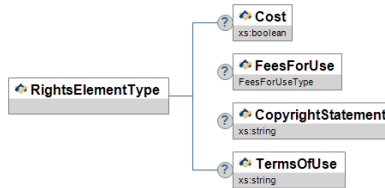


Figure A.545-1: RightsElementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RightsElementType			A common metadata element designed to carry any intellectual property or copyright information, based on the IEEE LOM Rights element [LOM].	
Cost	O	000505 https://ceds.ed.gov/element/000505		xs:boolean
FeesForUse	O		A container for fees for use of the content in the object.	FeesForUse type
CopyrightStatement	O			xs:string
TermsOfUse	O			xs:string

Table A.545-1: RightsElementType

```

JSON XML
<RightsElement>
  <Cost true /Cost>
  <FeesForUse>
    <UseType>
      <UseType/UseType>
      <MeteringType/MeteringType>
      <MeteringURL/http://www.example.com/meteringURL>
      <FeeUseCharge Currency="USD">1.00</FeeUseCharge>
    </FeesForUse>
  </FeesForUse>
  <CopyrightStatement>CopyrightStatement</CopyrightStatement>
  <TermsOfUse>TermsOfUse</TermsOfUse>
</RightsElement>
    
```

Example A.545-1: RightsElementType

A.546 RolesType

List of one or more Roles.

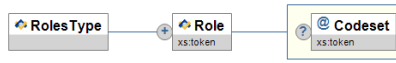


Figure A.546-1: RolesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RolesType	M		List of one or more Roles.	List
Role	MR		One of a set of possible enumerated Role values.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.546-1: RolesType

A.547 RoomListType



Figure A.547-1: RoomListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
RoomListType	O			List
RoomInfoRefId	MR		The Id (GUID) of the room in which this section is taught.	IdRefType

Table A.547-1: RoomListType

A.548 SCEDCodeType

Course code from the School Codes for the Exchange of Data that describe the content of the course.

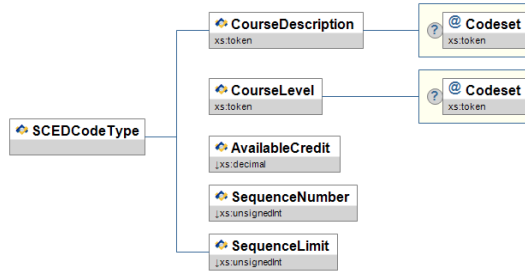


Figure A.548-1: SCEDCodeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SCEDCodeType			Course code from the School Codes for the Exchange of Data that describe the content of the course.	
CourseDescription	M	000246 https://ceds.ed.gov/element/000246	Five-digit number. Subject areas are represented by the first two digits, the last three digits specify a particular course within the subject area.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
CourseLevel	M	000248 https://ceds.ed.gov/element/000248	Conveys the level of the course.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
AvailableCredit	M	000030 https://ceds.ed.gov/element/000030	Identifies the amount of credit available to a student who successfully meets the objectives of the course, measured in Carnegie units (9-99 format).	xs:decimal [minInclusive: 0, maxInclusive: 99, totalDigits: 2]
SequenceNumber	M	000090 https://ceds.ed.gov/element/000090	One-digit number describing where a specific course lies when it is part of a consecutive sequence of courses described by the same general course description.	xs:unsignedInt [minInclusive: 0, maxInclusive: 9]
SequenceLimit	M	000250 https://ceds.ed.gov/element/000250	One-digit number representing the total number of courses in the consecutive sequence described by the same general course description.	xs:unsignedInt [minInclusive: 0, maxInclusive: 9]

Table A.548-1: SCEDCodeType

```

JSON XML
<SCEDCode>
  <CourseDescription>94151</CourseDescription>
  <CourseLevel>9</CourseLevel>
  <AvailableCredit>1.05</AvailableCredit>
  <SequenceNumber>1</SequenceNumber>
  <SequenceLimit>1</SequenceLimit>
</SCEDCode>
    
```

Example A.548-1: SCEDCodeType

A.549 ScheduleInfoListType



Figure A.549-1: ScheduleInfoListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ScheduleInfoListType	M			List
ScheduleInfo	MR		The schedule-related information for a section repeating for each term in which the section is scheduled. The TermInfoRefId attribute value should repeat as necessary to show the appropriate relationship between meeting times, teachers and rooms.	ScheduleInfoType

Table A.549-1: ScheduleInfoListType

A.550 ScheduleInfoOverrideListType

A complete replacement of the standard SectionInfo/ScheduleInfoList for this student's course enrollment.



Figure A.550-1: ScheduleInfoOverrideListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ScheduleInfoOverrideListType	O		A complete replacement of the standard SectionInfo/ScheduleInfoList for this student's course enrollment.	List
ScheduleInfoOverride	MR		A complete replacement of the standard SectionInfo/ScheduleInfo for this student's course enrollment. If the student's schedule for this course is different than the standard schedule as defined in SectionInfo, a ScheduleInfoOverride must be provided for each term in which the course is offered, along with the appropriate value for Override. See the use cases for this object for scenario examples.	ScheduleInfoOverrideType

Table A.550-1: ScheduleInfoOverrideListType

A.551 ScheduleInfoOverrideType

A complete replacement of the standard SectionInfo/ScheduleInfo for this student's course enrollment. If the student's schedule for this course is different than the standard schedule as defined in SectionInfo, a ScheduleInfoOverride must be provided for each term in which the course is offered, along with the appropriate value for Override. See the use cases for this object for scenario examples.

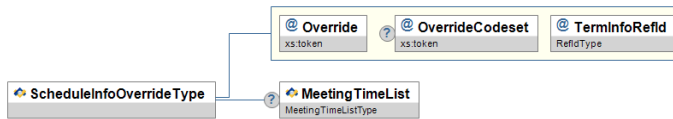


Figure A.551-1: ScheduleInfoOverrideType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ScheduleInfoOverrideType	MR		A complete replacement of the standard SectionInfo/ScheduleInfo for this student's course enrollment. If the student's schedule for this course is different than the standard schedule as defined in SectionInfo, a ScheduleInfoOverride must be provided for each term in which the course is offered, along with the appropriate value for Override. See the use cases for this object for scenario examples.	
@ Override	M		Designates whether or not scheduling information has been overridden with different values for this student.	xs:token
@ OverrideCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
@ TermInfoRefId	M		The Id (GUID) of the term to which this override information relates for this student.	RefIdType
MeetingTimeList	O			MeetingTimeListType

Table A.551-1: ScheduleInfoOverrideType

A.552 ScheduleInfoType

The schedule-related information for a section repeating for each term in which the section is scheduled. The TermInfoRefId attribute value should repeat as necessary to show the appropriate relationship between meeting times, teachers and rooms.

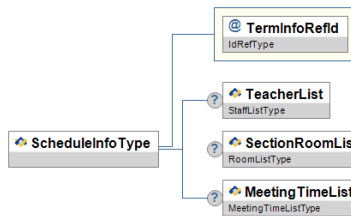


Figure A.552-1: ScheduleInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ScheduleInfoType	MR		The schedule-related information for a section repeating for each term in which the section is scheduled. The TermInfoRefId attribute value should repeat as necessary to show the appropriate relationship between meeting times, teachers and rooms.	
@ TermInfoRefId	M		The Id (GUID) of the term to which this schedule information relates.	IdRefType
TeacherList	O			StaffListType
SectionRoomList	O			RoomListType
MeetingTimeList	O			MeetingTimeListType

Table A.552-1: ScheduleInfoType

A.553 SchoolAttendanceHistoryListType

Chronology of schools attended in the student's academic career, including the current school if enrolled.

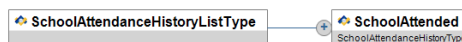


Figure A.553-1: SchoolAttendanceHistoryListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolAttendanceHistoryListType			Chronology of schools attended in the student's academic career, including the current school if enrolled.	List
SchoolAttended	MR		Data about each individual school attended.	SchoolAttendanceHistoryType

Table A.553-1: SchoolAttendanceHistoryListType

A.554 SchoolAttendanceHistoryType

Data about each individual school attended.

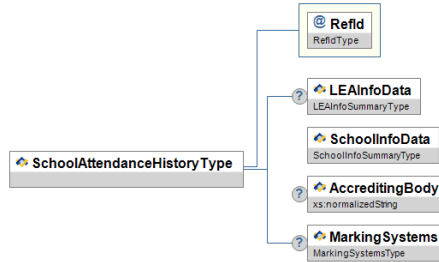


Figure A.554-1: SchoolAttendanceHistoryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolAttendanceHistoryType			Data about each individual school attended.	
RefId	M		Id used internally to StudentAcademicRecord to avoid duplication of school-related data.	RefIdType
LEInfoData	O		Collects elements of interest from LEInfo.	LEInfoSummaryType
SchoolInfoData	M		Collects elements of interest from SchoolInfo.	SchoolInfoSummaryType
AccreditingBody	O		Accrediting body for the school.	xs:normalizedString
MarkingSystems	C		Note: Mandatory if school of record. Marking systems/grading tables used by the school.	MarkingSystemsType

Table A.554-1: SchoolAttendanceHistoryType

A.555 SchoolContactListType

A list of contact persons associated with a school.

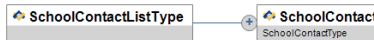


Figure A.555-1: SchoolContactListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolContactListType			A list of contact persons associated with a school.	List
SchoolContact	MR		Information on contact persons for this school.	SchoolContactType

Table A.555-1: SchoolContactListType

```

JSON XML
<SchoolContactList>
  <SchoolContact>
    <PublishInDirectory>Yes</PublishInDirectory>
    <ContactInfo>
      <Name Type="qt">
        <LastName>Miller</LastName>
        <FirstName>James</FirstName>
      </Name>
      <PositionTitle>Office Assistant</PositionTitle>
      <EmailList>
        <Email Type="Primary">jmiller@hs.k12.state.us</Email>
      </EmailList>
      <PhoneNumberList>
        <PhoneNumber Type="0098">
          <Number>555-1234</Number>
        </PhoneNumber>
      </PhoneNumberList>
    </ContactInfo>
  </SchoolContact>
</SchoolContactList>
    
```

A.556 SchoolContactType

Information on contact persons for this school.

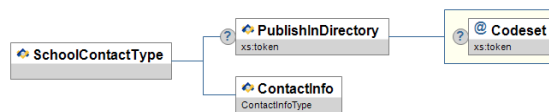


Figure A.556-1: SchoolContactType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolContactType	MR		Information on contact persons for this school.	
PublishInDirectory	O		Indicates whether or not this school contact's information should be published in a directory of school information.	xs:boolean
CodeSet	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
ContactInfo	M			ContactInfoType

Table A.556-1: SchoolContactType

A.557 SchoolCourseInfoOverrideType

Optional overrides of the course information for this section.

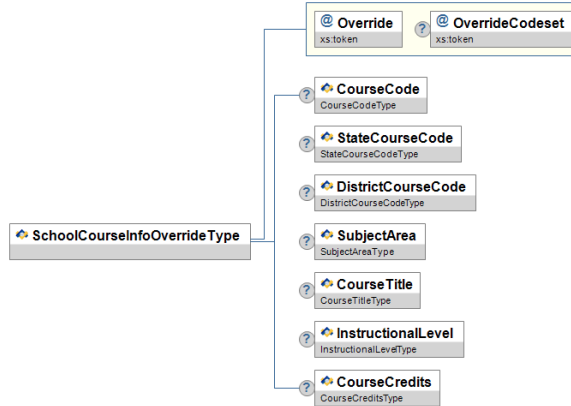


Figure A.557-1: SchoolCourseInfoOverrideType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolCourseInfoOverrideType	O		Optional overrides of the course information for this section.	
Override	M		Designates whether or not SchoolCourseInfo information has been overridden with different values for this section.	xs:boolean
OverrideCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
CourseCode	O		Override of the school-defined course code for this section.	CourseCodeType
StateCourseCode	O		Override of the state-defined course code for this section.	StateCourseCodeType
DistrictCourseCode	O		Override of the district course code for this section.	DistrictCourseCodeType
SubjectArea	O		Override of the subject matter area for this section.	SubjectAreaType
CourseTitle	O	000067 https://ceds.ed.gov/element/000067	Override of the course title for this section.	CourseTitleType
InstructionalLevel	O		Override of the instructional level for this section.	InstructionalLevelType
CourseCredits	O		Override of the course credits for this section.	CourseCreditsType

Table A.557-1: SchoolCourseInfoOverrideType

A.558 SchoolCourseInfoSummaryType

Collects elements of interest from SchoolCourseInfo.

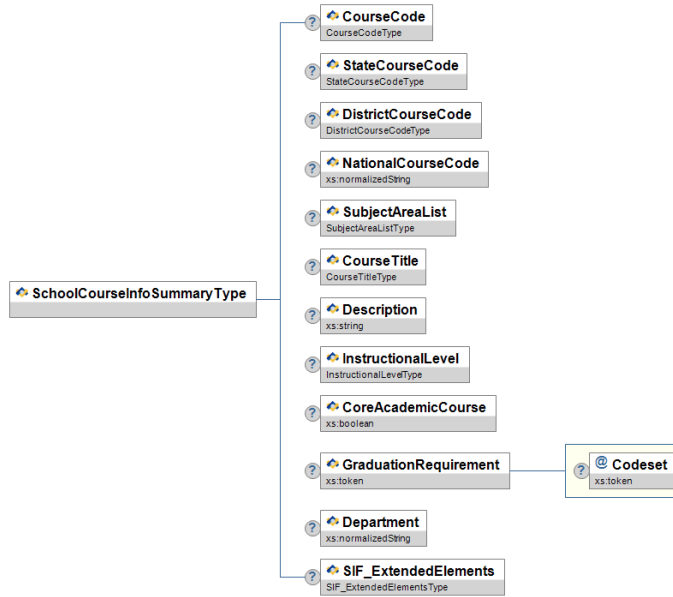


Figure A.558-1: SchoolCourseInfoSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolCourseInfoSummaryType	O		Collects elements of interest from SchoolCourseInfo.	
CourseCode	O			CourseCodeType
StateCourseCode	O			StateCourseCodeType
DistrictCourseCode	O			DistrictCourseCodeType
NationalCourseCode	O			xs:normalizedString
SubjectAreaList	O			SubjectAreaListType
CourseTitle	O			CourseTitleType
Description	O			xs:string
InstructionalLevel	O			InstructionalLevelType
CoreAcademicCourse	O			xs:boolean
GraduationRequirement	O			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Department	O			xs:normalizedString
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.558-1: SchoolCourseInfoSummaryType

A.559 SchoolFocusListType

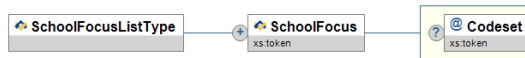


Figure A.559-1: SchoolFocusListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolFocusListType	O			List
SchoolFocus	MR	000039 https://ceds.ed.gov/element/000039	The type of educational institution as classified by its focus.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.559-1: SchoolFocusListType

A.560 SchoolInfoMediumSummaryType

Collects elements of interest from SchoolInfo.

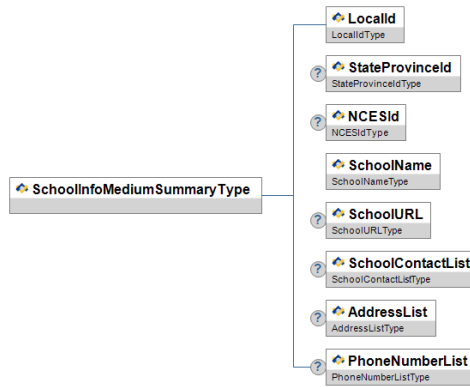


Figure A.560-1: SchoolInfoMediumSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolInfoMediumSummaryType			Collects elements of interest from SchoolInfo.	
LocalId	M			LocalIdType
StateProvinceId	O			StateProvinceIdType
NCESId	O			NCESIdType
SchoolName	M			SchoolNameType
SchoolURL	O			SchoolURLType
SchoolContactList	O			SchoolContactListType
AddressList	O			AddressListType
PhoneNumberList	O			PhoneNumberListType

Table A.560-1: SchoolInfoMediumSummaryType

A.561 SchoolInfoMiniSummaryType

Collects elements of interest from SchoolInfo.

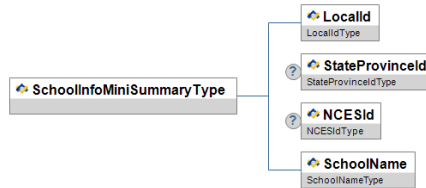


Figure A.561-1: SchoolInfoMiniSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolInfoMiniSummaryType			Collects elements of interest from SchoolInfo.	
LocalId	M			LocalIdType
StateProvinceId	O			StateProvinceIdType
NCESId	O			NCESIdType
SchoolName	M			SchoolNameType

Table A.561-1: SchoolInfoMiniSummaryType

A.562 SchoolInfoSummaryType

Collects elements of interest from SchoolInfo.

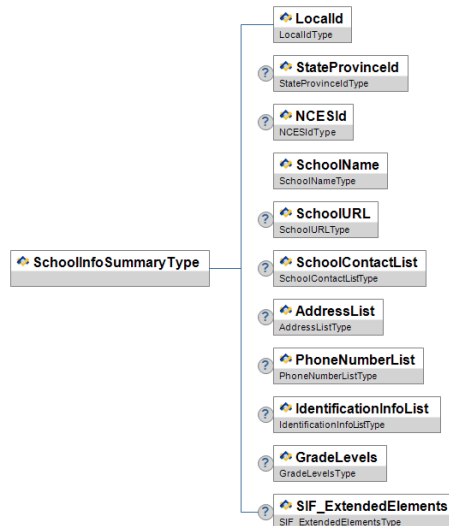


Figure A.562-1: SchoolInfoSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolInfoSummaryType			Collects elements of interest from SchoolInfo.	
LocalId	M			LocalIdType
StateProvinceId	O			StateProvinceIdType
NCEISId	O			NCEISIdType
SchoolName	M			SchoolNameType
SchoolURL	O			SchoolURLType
SchoolContactList	O			SchoolContactListType
AddressList	O			AddressListType
PhoneNumberList	O			PhoneNumberListType
IdentificationInfoList	O			IdentificationInfoListType
GradeLevels	O			GradeLevelType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.562-1: SchoolInfoSummaryType

A.563 SchoolNameType

Common element used to specify the name of a school. It is used in objects such as SchoolInfo and StudentSnapshot.

SchoolNameType
xs:normalizedString

Figure A.563-1: SchoolNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolNameType			The name of the school.	xs:normalizedString

Table A.563-1: SchoolNameType

JSON XML

```
<SchoolName>Academy High School</SchoolName>
```

Example A.563-1: SchoolNameType

A.564 SchoolURLType

URL for a school.

SchoolURLType
xs:anyURI

Figure A.564-1: SchoolURLType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolURLType			URL for a school.	xs:anyURI

Table A.564-1: SchoolURLType

JSON XML

```
<SchoolURL>https://www.lincolnh.s.edu/</SchoolURL>
```

Example A.564-1: SchoolURLType

A.565 SchoolYearType

Common element used to designate the academic school year to which an object relates.

SchoolYearType
xs:gYear

Figure A.565-1: SchoolYearType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SchoolYearType			School year for which this information is applicable, expressed as the four-digit year in which the school year ends (e.g., "2004" for the 2003-04 school year).	xs:gYear

Table A.565-1: SchoolYearType

JSON XML

```
<SchoolYear>2009</SchoolYear>
```

Example A.565-1: SchoolYearType

A.566 ScoreRangeType

The possible range of scores.

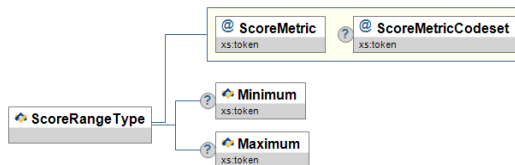


Figure A.566-1: ScoreRangeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ScoreRangeType			The possible range of scores.	
@ ScoreMetric	M	000369 https://ceds.ed.gov/element/000369	The metric or scale used to report the scores.	xs:token
@ ScoreMetricCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Minimum	O		Lowest possible score value.	xs:token
Maximum	O		Highest possible score value.	xs:token

Table A.566-1: ScoreRangeType

A.567 SEAContactListType

Information on contact persons for this SEA.



Figure A.567-1: SEAContactListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SEAContactListType	O		Information on contact persons for this SEA.	List
SEAContact	MR		Container element for SEA contact information.	SEAContactType

Table A.567-1: SEAContactListType

A.568 SEAContactType

Container element for SEA contact information.

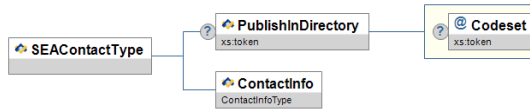


Figure A.568-1: SEAContactType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SEAContactType	MR		Container element for SEA contact information.	
PublishInDirectory	O		Indicates whether or not this SEA contact's information should be published in a directory of SEA information.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
ContactInfo	M		Contact information for a person at the SEA.	ContactInfoType

Table A.568-1: SEAContactType

A.569 Section504Type

Is the student a qualified individual under Section 504 of the Rehabilitation Act? (Mutually exclusive with IDEA classification.)



Figure A.569-1: Section504Type

Element/@Attribute	Char	CEDS Id/URL	Description	Type
Section504Type			Is the student a qualified individual under Section 504 of the Rehabilitation Act? (Mutually exclusive with IDEA classification.)	values: Yes No Unknown

Table A.569-1: Section504Type

JSON XML

```

<Section504?></Section504?>
  
```

Example A.569-1: Section504Type

A.570 SelectedContentType

Allows an XML fragment selected from an object to be used in an element with XML validation skipped.



Figure A.570-1: SelectedContentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SelectedContentType			Allows an XML fragment selected from an object to be used in an element with XML validation skipped.	<xs:complexContent base="xs:anyType"> <xs:restriction base="xs:anyType"> <xs:sequence> <xs:any processContents="skip" minOccurs="0" maxOccurs="unbounded" /> </xs:sequence> </xs:restriction> </xs:complexContent>

Table A.570-1: SelectedContentType

A.571 ServiceFundingSourceListType



Figure A.571-1: ServiceFundingSourceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ServiceFundingSourceListType				List
ProgramFundingSource	MR			ProgramFundingSourceType

Table A.571-1: ServiceFundingSourceListType

A.572 ServiceNameType

An unenumerated SIF object name.

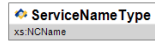


Figure A.572-1: ServiceNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ServiceNameType			An unenumerated SIF object name.	xs:NCName

Table A.572-1: ServiceNameType

A.573 ServiceProviderType Type

Used for an individual providing the service. Review by state / program, may be required. Service provider title (such as Physical Therapist or Psychologist).

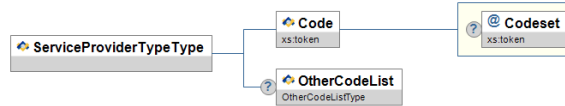


Figure A.573-1: ServiceProviderType Type

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ServiceProviderType Type			Used for an individual providing the service. Review by state / program, may be required. Service provider title (such as Physical Therapist or Psychologist).	
Code	M		Used for an individual providing the service. Review by state / program, may be required. Service provider title (such as Physical Therapist or Psychologist).	xs:token subset: 0100 0200 0201 0202 0203 0204 0205 0206 0207 0208 0209 0210 0211 0212 0213 0300 0309 0313 0322 0328 0329 0333 0334 0335 0336 0338 0339 0340 0342 0343 0345 0346 0347 0349 0351 0352 0353 0356 0359 0361 0363 0400 0500 0501 0507 0512 0600 0700 0800 0801 0802 0900 1000 1001 1002 1009 1011 1012 9999
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.573-1: ServiceProviderType Type

A.574 ServiceSettingType

Setting where service is provided (Regular Class, Resource Room, Homebound, Detention Center, etc.).

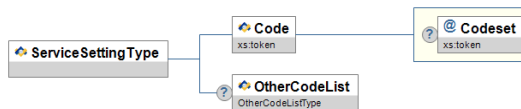


Figure A.574-1: ServiceSettingType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ServiceSettingType	O		Setting where service is provided (Regular Class, Resource Room, Homebound, Detention Center, etc.).	
Code	M		Setting where service is provided (Regular Class, Resource Room, Homebound, Detention Center, etc.).	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.574-1: ServiceSettingType

A.575 SessionDurationType

Duration relative to a session.

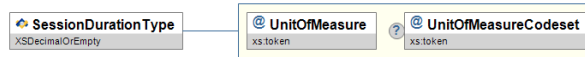


Figure A.575-1: SessionDurationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SessionDurationType			Duration relative to a session.	xs:decimal
@ UnitOfMeasure	M		Identifies unit of measure in which amount of time is expressed.	xs:token
@ UnitOfMeasureCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.575-1: SessionDurationType

A.576 SIF_ExtendedElementsType

This element is supported at the end of all SIF objects. The element is used to extend existing SIF objects with locally-defined elements. Extended elements SHOULD NOT be used to duplicate data that can be obtained from other SIF objects.

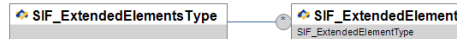


Figure A.576-1: SIF_ExtendedElementsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SIF_ExtendedElementsType			Allows an agent to include data not yet defined within a SIF data object as name/value pairs.	ActionList (SIF_ExtendedElement/#Name)
SIF_ExtendedElement	OR		A name/value pair, the name being contained in the Name attribute, the value being the element content.	SIF_ExtendedElementType

Table A.576-1: SIF_ExtendedElementsType

```

JSON
XML

<SIF_ExtendedElements>
  <SIF_ExtendedElement Name="ApplicationSubmissionStatus"></SIF_ExtendedElement>
  <SIF_ExtendedElement Name="Organization">
    <Parent xmlns="http://myapplication.com">
      <Child n="1">none</Child>
      <Child n="2" />
      <Child n="3">three</Child>
    </Parent>
  </SIF_ExtendedElements>
  <SIF_ExtendedElement Name="Note">
    <html:strong xmlns:html="http://www.w3.org/1999/xhtml">Double</html:strong>-check submission status. </SIF_ExtendedElement>
</SIF_ExtendedElements>
    
```

Example A.576-1: SIF_ExtendedElementsType

A.577 SIF_ExtendedElementType

A name/value pair, the name being contained in the Name attribute, the value being the element content.

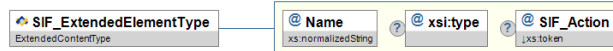


Figure A.577-1: SIF_ExtendedElementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SIF_ExtendedElementType	OR		A name/value pair, the name being contained in the Name attribute, the value being the element content.	Extension of ExtendedContenttype
@ Name	M		The name of the extended element. As it is possible that names for extended elements may collide from agent to agent, it is recommended that the names of extended elements be configurable in an agent, or that agents use URIs for the names of extended elements.	xs:normalizedString
@ xsi:type	O		Allows type of element to be explicitly communicated.	
@ SIF_Action	O		In a change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum the key for the list must also be present.	values: Delete

Table A.577-1: SIF_ExtendedElementType

A.578 SIF_MetadataType

Metadata is commonly referred to as data about data and includes information such as author, grade level, or keywords relating to a learning object, as examples. Metadata can be used to structure and contain any of this kind of information in a consistent manner. In the context of SIF, SIF_Metadata provides a consistent structure to appropriate SIF objects for the purpose of cataloging and object discovery, as well as other metadata functions and purposes. One recurring use case within the SIF data model is the requirement for some form of temporal constraints and tagging on objects (see TimeElement). Other metadata elements are based on needs brought to the Data Model Task Force.

IMPORTANT NOTE ON PERSISTENCE

This data is not designed to be permanent. It is designed to frame an object instance and could dissolve as soon as it leaves the SIF framework for the application space. A data warehouse could be used to store metadata for later tracking.

IMPORTANT NOTE ON USAGE

Any usage of metadata is optional unless made a requirement within individual SIF objects, or if a SIF or local profile or zone installation mandates it. SIF_Metadata allows for the usage of metadata in agents and applications that choose to support it.

This element is designed to operate much like SIF_ExtendedElements. It is an approved common element that is part of any data object.

DEPRECATED

The International community is already working on a generic replacement for SIF_Metadata and it has been deprecated as of SIF Data Model Implementation Specification (NA) 4.0.

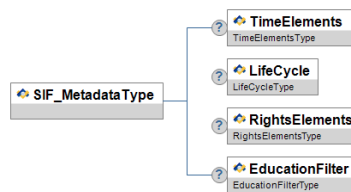


Figure A.578-1: SIF_MetadataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SIF_MetadataType			A commonly defined container for metadata elements defined within SIF.	
TimeElements	O			TimeElementisType
LifeCycle	O			LifeCycleisType
RightsElements	O			RightsElementisType
EducationFilter	O			EducationFilterisType

Table A.578-1: SIF_MetadataType

A.579 SimpleContactRelationshipType

Typically used to provide the state information about a person's parents and legal guardians.

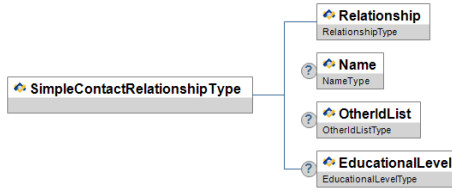


Figure A.579-1: SimpleContactRelationshipType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SimpleContactRelationshipType	OR		Typically used to provide the state information about a person's parents and legal guardians.	
Relationship	M		Relationship to the person.	Relationship
Name	O		The name(s) of the contact.	NameType
OtherIdList	O		OtherIds associated with the contact .	OtherIdListType
EducationalLevel	O		The highest level of education completed by the contact person.	EducationalLevelType

Table A.579-1: SimpleContactRelationshipType

A.580 SoftwareRequirementListType

Contains information about required software.



Figure A.580-1: SoftwareRequirementListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SoftwareRequirementListType			Contains information about required software.	List
SoftwareRequirement	OR		Contains information about a specific required piece of software.	SoftwareRequirementType

Table A.580-1: SoftwareRequirementListType

A.581 SoftwareRequirementType

Contains information about a specific required piece of software.

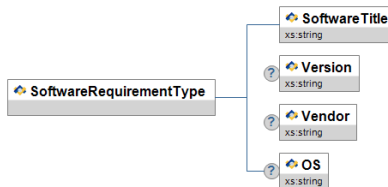


Figure A.581-1: SoftwareRequirementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SoftwareRequirementType	OR		Contains information about a specific required piece of software.	
SoftwareTitle	M		This is the title of the specific software. This does not include the vendor. For example, Flash not Adobe.	xs:string
Version	O		This includes the version of the specific software.	xs:string
Vendor	O		This is the vendor of the specific software. For example, Adobe.	xs:string
OS	O		This is the operating system and version. For example, Macintosh OS X 1.4.	xs:string

Table A.581-1: SoftwareRequirementType

A.582 SourcedCodesetType



Figure A.582-1: SourcedCodesetType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SourcedCodesetType				xs:token
@ Codeset			Identifies source of value provided.	Values: State@province Local Other None

Table A.582-1: SourcedCodesetType

A.583 SourceObjectListType

Source objects assigned to students.

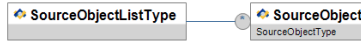


Figure A.583-1: SourceObjectListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SourceObjectListType			Source objects assigned to students.	list
SourceObject	OR		GUID assigned to the source object.	SourceObjectType

Table A.583-1: SourceObjectListType

A.584 SourceObjectType

GUID assigned to the source object.

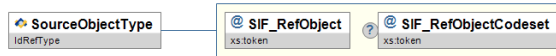


Figure A.584-1: SourceObjectType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SourceObjectType			GUID assigned to the source object.	IdRefType
@ SIF_RefObject	M		The type of learning object the source object is.	xs:token
@ SIF_RefObjectCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.584-1: SourceObjectType

A.585 SpanGapsType

A container element for holding multiple possible span gaps.

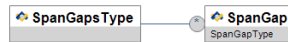


Figure A.585-1: SpanGapsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SpanGapsType	O		A container element for holding multiple possible span gaps.	list
SpanGap	OR		This structure duplicates much of the structure of TimeElement and is designed to represent a gap in the parent time period defined by StartDateTime and EndDateTime above.	SpanGapType

Table A.585-1: SpanGapsType

A.586 SpanGapType

This structure duplicates much of the structure of TimeElement and is designed to represent a gap in the parent time period defined by StartDateTime and EndDateTime above.

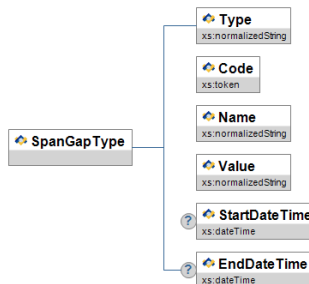


Figure A.586-1: SpanGapType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SpanGapType	OR		This structure duplicates much of the structure of TimeElement and is designed to represent a gap in the parent time period defined by StartDateTime and EndDateTime above.	
Type	M			xs:normalizedString
Code	M			xs:token
Name	M			xs:normalizedString
Value	M			xs:normalizedString
StartDateTime	O			xs:dateTime
EndDateTime	O			xs:dateTime

Table A.586-1: SpanGapType

A.587 SpecialConditionActionListType

Records student-specific special conditions during the test.

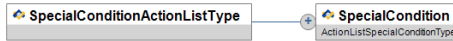


Figure A.587-1: SpecialConditionActionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SpecialConditionActionListType			Records student-specific special conditions during the test.	ActionList (SpecialCondition/Code)
SpecialCondition	MR	000389 https://ceds.ed.gov/element/000389	A description of the special condition. Student special conditions are different from special conditions of the test. Examples Fire drill during test. AIR conditioning broke during the request. Assessment was given over three days instead of in one sitting.	ActionListSpecialConditionType

Table A.587-1: SpecialConditionActionListType

A.588 SSNType

Social Security Number



Figure A.588-1: SSNType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SSNType			Social Security Number	xs:token

Table A.588-1: SSNType

JSON XML

```
<SSN>990651225</SSN>
```

Example A.588-1: SSNType

A.589 StaffListType



Figure A.589-1: StaffListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StaffListType	O			List
StaffPersonalRefId	MR		GUID that identifies the staff person.	IdRefType

Table A.589-1: StaffListType

A.590 StaffParametersType

Characteristics of the staff person identified by the district which the state uses to perform its matching logic.

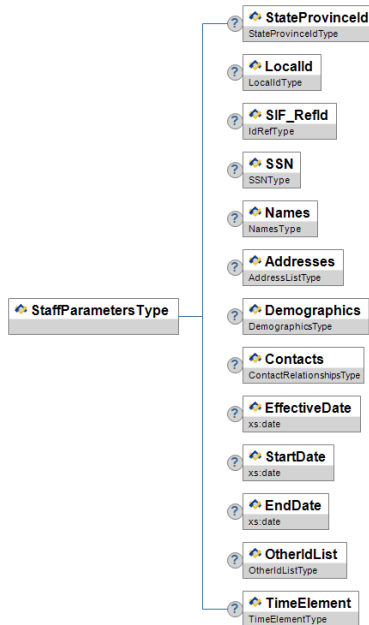


Figure A.590-1: StaffParametersType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StaffParametersType			Characteristics of the staff person identified by the district which the state uses to perform its matching logic.	
StateProvinceId	O		Specified if the requesting agency believes it knows the person's state Id.	StateProvinceIdType
LocalId	O		This is the requesting agent's unique Id for the person.	LocalIdType
SIF_RefId	O		Requesting agency's local zone's GUID of the person's data source object.	IdRefType
SSN	O		Social security number of the person.	SSNType
Names	O		The name(s) of the person.	NamesType
Addresses	O		The address(es) of the person.	AddressListType
Demographics	O		Demographic information about the person. This will typically be the core matching information. Privacy considerations may mean that it is filled differently here than it might be in a local object, but it must include enough to drive the state's matching algorithms.	DemographicType
Contacts	O		Typically used to provide the state information about a person's parents and legal guardians.	ContactRelationshipType
EffectiveDate	O		This should match StudentSchoolEnrollment/EntryDate.	xs:date
StartDate	O		Start date for a range that is being requested. In most cases this will correspond to the school entry date.	xs:date
EndDate	O		End date for a range that is being requested. In most cases this will correspond to the school exit date.	xs:date
OtherIdList	O		Additional person identifiers not represented elsewhere in Characteristics (e.g. the driver's license number of the person).	OtherIdListType
TimeElement	O		SIF_Metadata's TimeElement may be specified to indicate a time duration to which the characteristics apply (as opposed to adding new elements to Characteristics). This metadata may be supplied by systems that know a student existed in a district during a certain time period (e.g. a system initiating a student record exchange). If the responder is able to make use of the metadata, it may do so to narrow down the student lookup; otherwise the metadata can be ignored or logged.	TimeElementType

Table A.590-1: StaffParametersType

A.591 StaffPersonalDataSummary2Type

Collects elements of interest from StaffPersonal.

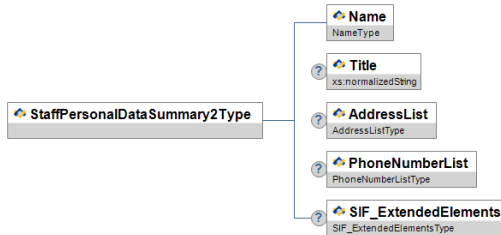


Figure A.591-1: StaffPersonalDataSummary2Type

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StaffPersonalDataSummary2Type			Collects elements of interest from StaffPersonal.	
Name	M			NameType
Title	O			xs:normalizedString
AddressList	O			AddressListType
PhoneNumberList	O			PhoneNumberListType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.591-1: StaffPersonalDataSummary2Type

A.592 StaffPersonalDataSummaryType



Figure A.592-1: StaffPersonalDataSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StaffPersonalDataSummaryType				
StaffPersonalData	M		Collects elements of interest from StaffPersonal.	StaffPersonalDataSummary2Type

Table A.592-1: StaffPersonalDataSummaryType

A.593 StandardHierarchyLevelType

Description of hierarchical level within standards tree.

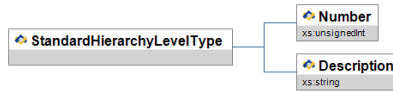


Figure A.593-1: StandardHierarchyLevelType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StandardHierarchyLevelType			Description of hierarchical level within standards tree.	
Number	M		Integer assigned to each hierarchical level within the CurriculumStructure tree. The top level is 1.	xs:unsignedInt
Description	M		Used to describe what role this is serving in the structure. Some curriculum objects describe their levels in terms of programs of study, courses and units. Others use other terms.	xs:string

Table A.593-1: StandardHierarchyLevelType

A.594 StandardIdentifierType

This element describes the unique identifier for each LearningStandard.

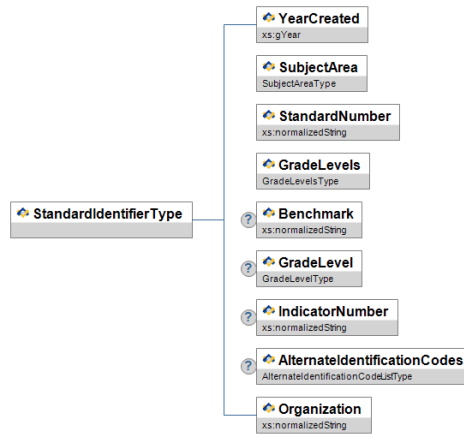


Figure A.594-1: StandardIdentifierType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StandardIdentifierType	O		This element describes the unique identifier for each LearningStandard.	
YearCreated	M		This represents the year that this specific learning standard was created. This is important to indicate as standards are updated to reflect the appropriate year it was created. This would be assigned and unique to the standard setting body.	xs:gYear
SubjectArea	M		This represents the subject or content area this learning standard addresses. This would be assigned and unique to the standard setting body.	SubjectAreaType
StandardNumber	M		This is the specific number of the standard. For example, if the subject is mathematics and this standard is Patterns, Functions and Algebra, this would be StandardNumber 1. This would be assigned and unique to the standard setting body.	xs:normalizedString
GradeLevels	M		This represents the grade level(s) this specific learning standard will address. This may be addressed in different ways. Some states have a grade level that covers several grades and others have just one grade. This would be assigned and unique to the standard setting body.	GradeLevelsType
Benchmark	O		This is the next level within the hierarchy of the learning standard. For example, if the subject is mathematics and the standard is algebra, this would be the next delineation - Represent an unknown quantity as a variable using a symbol, including letters. This would be assigned and unique to the standard setting body.	xs:normalizedString
GradeLevel	O		This is the specific grade level. This is to be utilized if the GradeLevel covers several grades. This would be assigned and unique to the standard setting body.	GradeLevelType
IndicatorNumber	O		This would be the most granular level of the learning standard associated with the grade level. Following the same example, an indicator for Algebra GradeLevel 5-7, the indicator for the benchmark above at 6 grade would be to Evaluate simple expressions by replacing variables with given values, and use formulas in problem-solving situations. This would be assigned and unique to the standard setting body.	xs:normalizedString
AlternateIdentificationCodes	O		This element is for an organization to utilize for an internal code. This may be used for an alignment schema or other purposes that are only internal for the organization.	AlternateIdentificationCodeListType
Organization	M		Name of organization represented by the document, i.e., "National Council of Teachers of Mathematics (NCTM)," "Washington," "Seattle School District." This is the name of the organization that has this AlternateIdentificationCode. This should be a text field.	xs:normalizedString

Table A.594-1: StandardIdentifierType

A.595 StandardsSettingBodyType

The name of the state or organization that authored and manages updates to the standards document (e.g., NCTM, Ohio Department of Education).

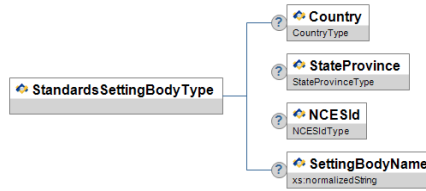


Figure A.595-1: StandardsSettingBodyType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StandardsSettingBodyType			The name of the state or organization that authored and manages updates to the standards document (e.g., NCTM, Ohio Department of Education).	
Country	O		The country of the standard setting body.	CountryType
StateProvince	O	000518 https://ceds.ed.gov/element/000518	The state or province of the standard setting body.	StateProvinceType
NCEsId	O	000517 https://ceds.ed.gov/element/000517	National Center for Education Statistics Id.	NCEsIdType
SettingBodyName	O		The text version of the organization's name.	xs:normalizedString

Table A.595-1: StandardsSettingBodyType

A.596 StateCourseCodeType

State-defined standard course code used to report information about courses.



Figure A.596-1: StateCourseCodeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StateCourseCodeType			State-defined standard course code used to report information about courses.	xs:normalizedString

Table A.596-1: StateCourseCodeType

JSON XML

```
<StateCourseCode>98-001</StateCourseCode>
```

Example A.596-1: StateCourseCodeType

A.597 StatementCodeListType



Figure A.597-1: StatementCodeListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StatementCodeListType	O			List
StatementCode	OR	000692 https://ceds.ed.gov/element/000692	An alphanumeric Id code as defined by the organization to identify the statement.	xs:string

Table A.597-1: StatementCodeListType

A.598 StatementListType

A list of texts of the "standard," or "benchmark."



Figure A.598-1: StatementListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StatementListType			A list of texts of the "standard," or "benchmark."	List
Statement	MR	000690 https://ceds.ed.gov/element/000690	The text of the "standard," or "benchmark."	xs:string

Table A.598-1: StatementListType

A.599 StateProvinceIdType

This is a common element used to define the state or province assigned identifier associated with an entity. It is used in StudentPersonal, StaffPersonal, and other objects.



Figure A.599-1: StateProvinceIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StateProvinceIdType			The identifier for this entity as assigned by the state or province.	xs:normalizedString

Table A.599-1: StateProvinceIdType

```

JSON  XML 
<StateProvinceID>165432765</StateProvinceID>
    
```

Example A.599-1: StateProvinceIDType

A.600 StateProvinceType

A state or province code. Note: When dealing with countries other than the United States or Canada, state/province codes/values other than those referenced here can be used.



Figure A.600-1: StateProvinceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StateProvinceType			A state or province code. Note: When dealing with countries other than the United States or Canada, state/province codes/values other than those referenced here can be used.	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.600-1: StateProvinceType

```

JSON  XML 
<StateProvince>IL</StateProvince>
    
```

Example A.600-1: StateProvinceType

A.601 StreetType

The street element is a complex element and breaks the street down into several parts.

The type of street. For example, Lane, Blvd., Ave., etc.

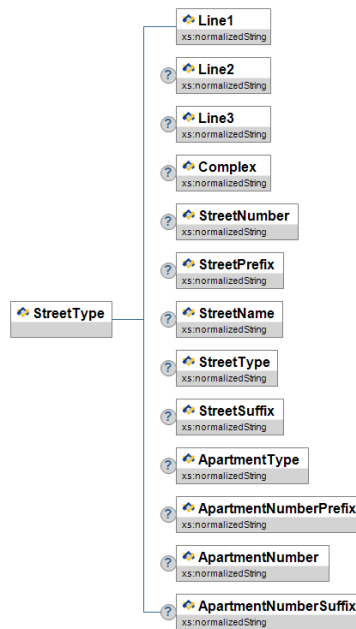


Figure A.601-1: StreetType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StreetType	M		The street element is a complex element and breaks the street down into several parts.	
Line1	M		Address line 1.	xs:normalizedString
Line2	O		Address line 2.	xs:normalizedString
Line3	O		Address line 3.	xs:normalizedString
Complex	O		Name of the complex.	xs:normalizedString
StreetNumber	O	000269 https://ceds.ed.gov/element/000269	The address number assigned to the building.	xs:normalizedString
StreetPrefix	O		Street prefix like NE	xs:normalizedString
StreetName	O	000269 https://ceds.ed.gov/element/000269	The name of the street.	xs:normalizedString
StreetType	O		The type of street. For example, Lane, Blvd., Ave., etc.	xs:normalizedString
StreetSuffix	O		Street suffix like SW.	xs:normalizedString
ApartmentType	O		Type of apartment, for example, Suite.	xs:normalizedString
ApartmentNumberPrefix	O		Apartment number prefix.	xs:normalizedString
ApartmentNumber	O		The number of the apartment.	xs:normalizedString
ApartmentNumberSuffix	O		Apartment number suffix.	xs:normalizedString

Table A.601-1: StreetType

A.602 StudentActivityTypeType

Information regarding the co-curricular or extra-curricular activity.

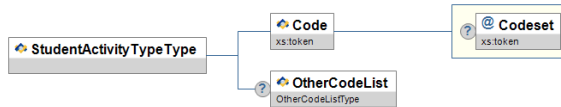


Figure A.602-1: StudentActivityTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentActivityTypeType	M		Information regarding the co-curricular or extra-curricular activity.	
Code	M	000006 https://ceds.ed.gov/element/000006	Code identifying the co-curricular or extra-curricular activity.	xs:string subset: 0721 0729 0628 0683 0700 0629 0677 0630 0631 0633 0634 0718 0693 0713 0667 0722 0680 0701 0635 0636 0684 0685 0707 0637 0696 0686 0694 0705 0639 0638 0640 0724 0702 0703 0719 0641 0642 0706 0644 0679 0690 0717 0645 0697 0693 0646 0732 0674 0676 0673 0730 0726 0704 0727 0678 0699 0725 0735 0681 0689 0608 0672 0714 0647 0733 0648 0644 0649 0650 0659 0665 0651 0652 0653 0723 0695 0655 0728 0716 0656 0657 0658 0708 0659 0682 0734 0660 0715 0712 0661 0662 0663 0692
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:string
OtherCodeList	O			OtherCodeListType

Table A.602-1: StudentActivityTypeType

A.603 StudentAttendanceAuditInfoType

An audit trail to help determine who entered this attendance event and when.



Figure A.603-1: StudentAttendanceAuditInfoType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentAttendanceAuditInfoType			An audit trail to help determine who entered this attendance event and when.	
CreationUser	M		Information about which staff member created this attendance record.	AuditInfoCreationUserType
CreationDateTime	M		The date and time of this attendance record was created.	xs:dateTime

Table A.603-1: StudentAttendanceAuditInfoType

A.604 StudentContactsSummaryType

Reports up to two parents/guardians of the student.

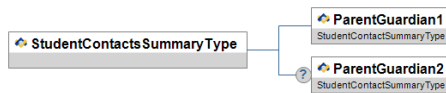


Figure A.604-1: StudentContactsSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentContactsSummaryType			Reports up to two parents/guardians of the student.	
ParentGuardian1	M		First parent/guardian.	StudentContactSummaryType
ParentGuardian2	O		Second parent/guardian.	StudentContactSummaryType

Table A.604-1: StudentContactsSummaryType

A.605 StudentContactSummaryType

A parent/guardian.

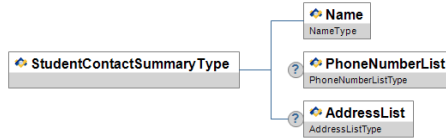


Figure A.605-1: StudentContactSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentContactSummaryType	O		A parent/guardian.	
Name	M			NameType
PhoneNumberList	O			PhoneNumberListType
AddressList	O			AddressListType

Table A.605-1: StudentContactSummaryType

A.606 StudentEntryTypeType

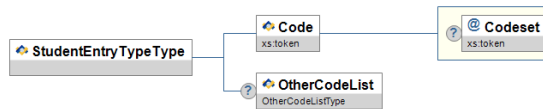


Figure A.606-1: StudentEntryTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentEntryTypeType				
Code	M	000099 https://ceds.ed.gov/element/000099	Code indicating the type of entry for this affiliation.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.606-1: StudentEntryTypeType

A.607 StudentExitStatusType

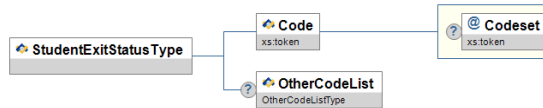


Figure A.607-1: StudentExitStatusType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentExitStatusType				
Code	M	000108 https://ceds.ed.gov/element/000108	Code indicating the exit status for this affiliation.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.607-1: StudentExitStatusType

A.608 StudentExitTypeType

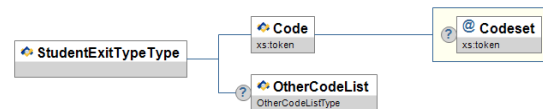


Figure A.608-1: StudentExitTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentExitTypeType				
Code	M	000110 https://ceds.ed.gov/element/000110	Code indicating the type of exit for this affiliation.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.608-1: StudentExitTypeType

A.609 StudentGradeGradeType

This is the one grade given for this student and section. At least one numeric, percentage or letter must be provided as defined in the fields below. If `Numeric` is entered, `OutOf`, `Low` and `High` must also be entered.

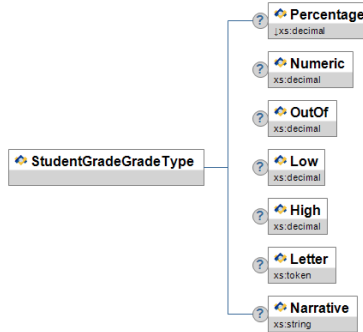


Figure A.609-1: StudentGradeGradeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentGradeGradeType			This is the one grade given for this student and section. At least one numeric, percentage or letter must be provided as defined in the fields below. If <code>Numeric</code> is entered, <code>OutOf</code> , <code>Low</code> and <code>High</code> must also be entered.	
Percentage	C		The grade percentage for this grade (0.00-100.00).	xs:decimal xs:minInclusive 0.00 xs:maxInclusive 100.00
Numeric	C		The raw numeric value for this grade. If this is provided, the <code>OutOf</code> , <code>Low</code> and <code>High</code> must be entered.	xs:decimal
OutOf	C		This is the high value equivalent to 100% without extra points or extra credit (e.g. if a student received 3.5 out of 4, 4 would be the <code>Grade/OutOf</code> value and 3.5 would be the <code>Grade/Numeric</code> value).	xs:decimal
Low	C		Lowest grade value in the range for the numeric grade.	xs:decimal
High	C		Highest grade value in the range for the numeric grade. NOTE: This could be higher than the <code>Grade/OutOf</code> value.	xs:decimal
Letter	C	000093 https://ceds.ed.gov/element/000093	The letter grade value for this grade. If this is provided, the numeric value or percentage value must also be entered in order to provide a numeric value for the grade to be utilized in any computations.	xs:token
Narrative	O	000124 https://ceds.ed.gov/element/000124	The free form text narrative for this grade.	xs:string

Table A.609-1: StudentGradeGradeType

A.610 StudentLEARelationship2Type

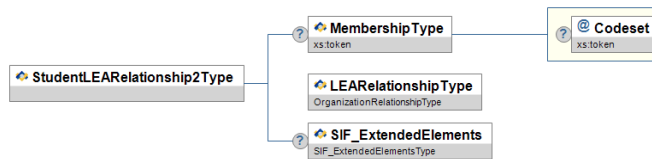


Figure A.610-1: StudentLEARelationship2Type

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentLEARelationship2Type				
MembershipType	O		The type of this affiliation as it relates to the LEA identified.	xs:token
@Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
LEARelationshipType	M		An instance of the <code>OrganizationRelationshipType</code> common type that describes the details of the student's affiliation with the LEA.	OrganizationRelationshipType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.610-1: StudentLEARelationship2Type

A.611 StudentMostRecentContainerType

Container for elements reflecting the most recent enrollment of a student. If the student is currently enrolled in the district, the elements contain current information.

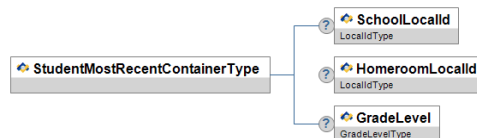


Figure A.611-1: StudentMostRecentContainerType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentMostRecentContainerType	O		Container for elements reflecting the most recent enrollment of a student. If the student is currently enrolled in the district, the elements contain current information.	
SchoolLocalId	O		Local identifier representing the school in which the student is or was most recently enrolled in the district.	LocalIdType
HomeroomLocalId	O		Local identifier representing the current or most recent homeroom in which the student is or was most recently assigned in the district. Use the value from RoomInfo/HomeroomNumber if supported. If not supported, use the value from RoomInfo/RoomNumber. If neither is supported, use the most appropriate value from the agent's application.	LocalIdType
GradeLevel	O		The current or most recent grade level of the student in the district.	GradeLevelType

Table A.611-1: StudentMostRecentContainerType

A.612 StudentParametersType

Characteristics of the student identified by the district which the state uses to perform its locator matching logic.

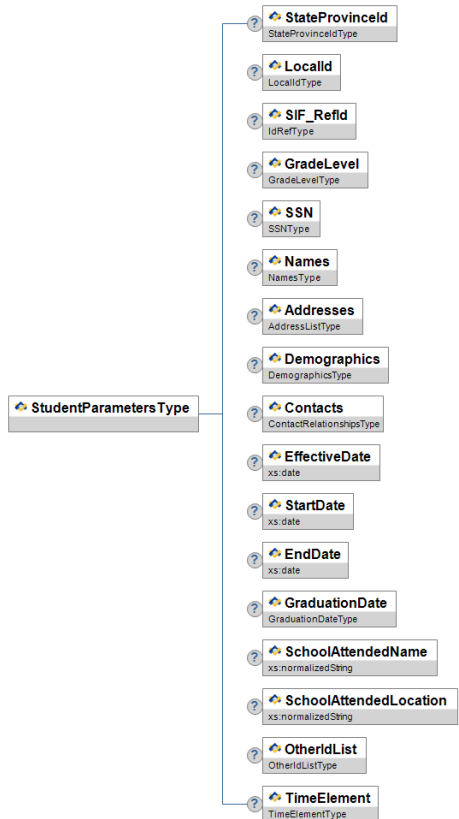


Figure A.612-1: StudentParametersType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
StudentParametersType			Characteristics of the student identified by the district which the state uses to perform its locator matching logic.	
StateProvinceId	O		Specified if the requesting agency believes it knows the person's state Id.	StateProvinceIdType
LocalId	O		This is the requesting agent's unique Id for the person.	LocalIdType
SIF_RefId	O		Requesting agency's local zone's GUID of the student's data source object.	IdRefType
GradeLevel	O		The student's current grade level.	GradeLevelType
SSN	O		Social security number of the person.	SSNType
Names	O		The name(s) of the person.	NameType
Addresses	O		The address(es) of the person.	AddressListType
Demographics	O		Demographic information about the person. This will typically be the core matching information. Privacy considerations may mean that it is filled differently here than it might be in a local object, but it must include enough to drive the state's matching algorithms.	DemographicType
Contacts	O		Typically used to provide the state information about a person's parents and legal guardians.	ContactRelationshipType
EffectiveDate	O		This should match StudentSchoolEnrollment/EntryDate.	xs:date
StartDate	O		Start date for a range that is being requested. In most cases this will correspond to the school entry date.	xs:date
EndDate	O		End date for a range that is being requested. In most cases this will correspond to the school exit date.	xs:date
GraduationDate	O		Indicates the date the person's graduated. Year, Year and Month, or Year, Month and Day may be specified. Intended to facilitate locating persons that may not be currently enrolled in a school or district, particularly in the context of locating student identifiers for initiating a request for a student's academic record. Supplied date values may often be approximations made by the entity endeavoring to request a student's academic record.	GraduationDateType
SchoolAttendedName	O		The name of the school last attended by the person.	xs:normalizedString
SchoolAttendedLocation	O		The location of the school last attended by the person (e.g. city or county name, district name, etc.).	xs:normalizedString
OtherIdList	O		Additional person identifiers not represented elsewhere in Characteristics (e.g. the driver's license number of the person).	OtherIdListType
TimeElement	O		SIF_Metadata's TimeElement may be specified to indicate a time duration to which the characteristics apply (as opposed to adding new elements to Characteristics). This metadata may be supplied by systems that know a student existed in a district during a certain time period (e.g. a system initiating a student record exchange). If the responder is able to make use of the metadata, it may do so to narrow down the student look-up; otherwise the metadata can be ignored or logged.	TimeElementType

Table A.612-1: StudentParametersType

A.613 StudentParticipationDataType

Collects elements of interest from StudentParticipation.

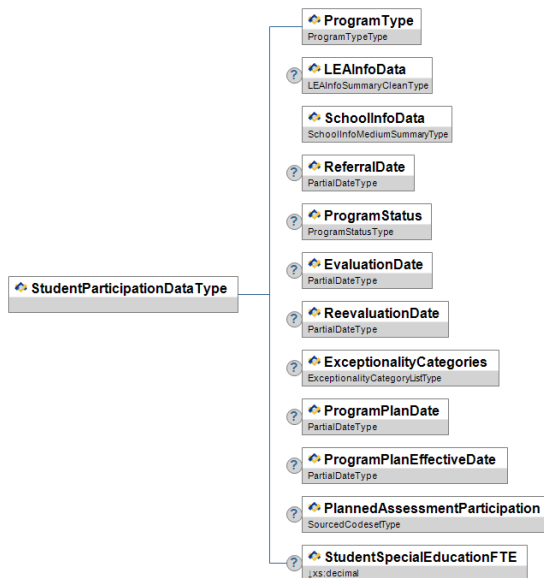


Figure A.613-1: StudentParticipationDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type						
StudentParticipationDataType	M		Collects elements of interest from StudentParticipation.							
ProgramType	M			ProgramTypeType						
LEAInfoData	O		Collects elements of interest from LEAInfo. Replaces GUID of ManagingPublicAgency to identify the LEA or district to which the ManagingSchool reports.	LEAInfoSummaryCleanType						
SchoolInfoData	M		Collects elements of interest from SchoolInfo. Replaces GUID of ManagingSchool which identifies the school responsible for coordinating the student's program participation.	SchoolInfoSummaryType						
ReferralDate	O			PartialDateType						
ProgramStatus	O			ProgramStatusType						
EvaluationDate	O			PartialDateType						
ReevaluationDate	O			PartialDateType						
ExceptionalityCategories	O			ExceptionalityCategoryListType						
ProgramPlanDate	O			PartialDateType						
ProgramPlanEffectiveDate	O			PartialDateType						
PlannedAssessmentParticipation	O			SourceCodeType						
StudentSpecialEducationFTE	O		Calculated ratio of time the student is in a special ed setting. Values range from 0.00 to 1.00. If the student is in a special ed setting 25% of the time, the value is .25; if 100% of the time, the value is 1.00.	xs:decimal <table border="1"> <tr><td>minInclusive</td><td>0</td></tr> <tr><td>maxInclusive</td><td>1</td></tr> <tr><td>fractionDigits</td><td>2</td></tr> </table>	minInclusive	0	maxInclusive	1	fractionDigits	2
minInclusive	0									
maxInclusive	1									
fractionDigits	2									

Table A.613-1: StudentParticipationDataType

A.614 StudentPersonalDataDemographicDataType

Collects elements of interest from Demographics.

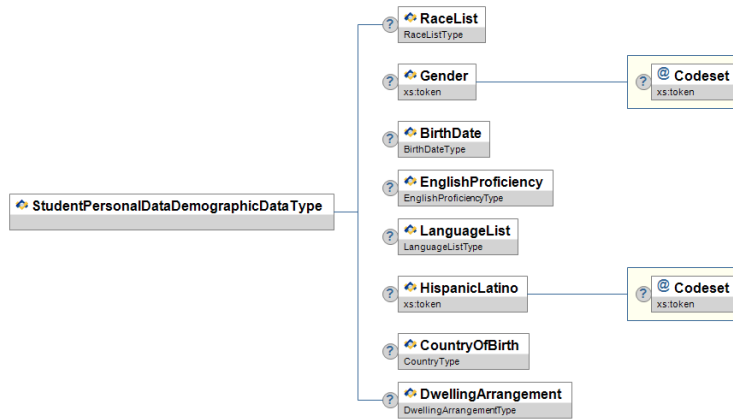


Figure A.614-1: StudentPersonalDataDemographicDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentPersonalDataDemographicDataType			Collects elements of interest from Demographics.	
RaceList	O			RaceListType
Gender	O			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
BirthDate	O			BirthDateType
EnglishProficiency	O		Person's proficiency in English.	EnglishProficiencyType
LanguageList	O		List of languages an individual uses to communicate.	LanguageListType
HispanicLatino	O			xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
CountryOfBirth	O			CountryType
DwellingArrangement	O		Setting/environment in which the person resides.	DwellingArrangementType

Table A.614-1: StudentPersonalDataDemographicDataType

A.615 StudentPersonalDataOtherIdListType

Lists all "other" identifiers associated with the student.

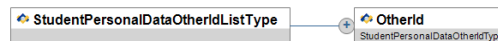


Figure A.615-1: StudentPersonalDataOtherIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentPersonalDataOtherIdListType	O		Lists all "other" identifiers associated with the student.	List
OtherId	MR		Lists an "other" identifier associated with the student.	StudentPersonalDataOtherIdType

Table A.615-1: StudentPersonalDataOtherIdListType

A.616 StudentPersonalDataOtherIdType

Lists an "other" identifier associated with the student.



Figure A.616-1: StudentPersonalDataOtherIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentPersonalDataOtherIdType			Lists an "other" identifier associated with the student.	xs:normalizedString
@ Type	M		Code that defines the type of this other Id.	xs:token subset: 0164 0339 0338 0879 9999 0222 0764 0164 0113 5013
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.616-1: StudentPersonalDataOtherIdType

A.617 StudentPersonalDataType

Collects elements of interest from StudentPersonal.

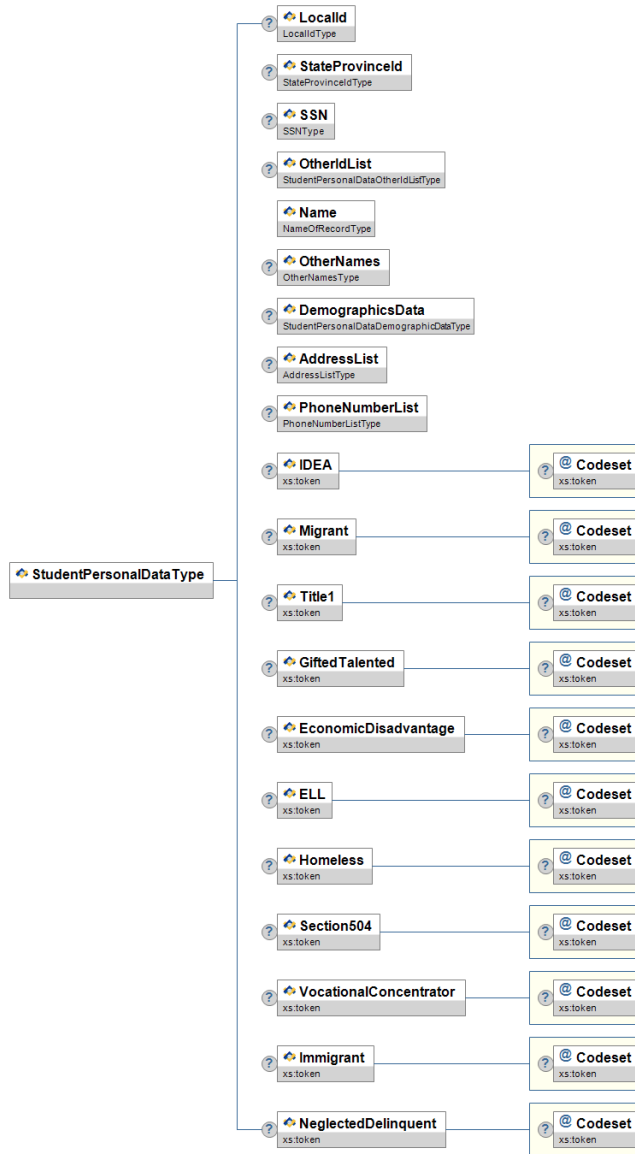


Figure A.617-1: StudentPersonalDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentPersonalData			Collects elements of interest from StudentPersonal.	
LocalId	O			LocalIdType
StateProvinceId	O			StateProvinceIdType
SSN	O			SSNType
OtherIdList	O		Lists all "other" identifiers associated with the student.	StudentPersonalDataOtherIdListType
Name	M		Name of the student. Note: Type value of 04 must be used here.	NameOfRecordType
OtherNames	O		Previous, alternate or other names or aliases associated with the student.	OtherNamesType
DemographicsData	O		Collects elements of interest from Demographics.	StudentPersonalDataDemographicData
AddressList	O		The address of the student.	AddressListType
PhoneNumberList	O			PhoneNumberListType
IDEA	O			xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Migrant	O	000185 https://ceds.ed.gov/element/000185		xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Title	O			xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
GiftedTalented	O			xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
EconomicDisadvantage	O	000290 https://ceds.ed.gov/element/000290		xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
ELL	O			xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Homeless	O			xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Section504	O			xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
VocationalConcentrator	O	000037 https://ceds.ed.gov/element/000037		xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
Immigrant	O	000291 https://ceds.ed.gov/element/000291		xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean
NeglectedDelinquent	O			xs:boolean
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:boolean

Table A.617-1: StudentPersonalData

A.618 StudentPersonalRefIdListType

Links to students.

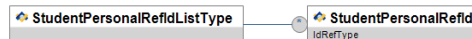


Figure A.618-1: StudentPersonalRefIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentPersonalRefIdList			Links to students.	List
StudentPersonalRefId	OR		Link to a student.	IdRefType

Table A.618-1: StudentPersonalRefIdListType

A.619 StudentPlacementProgramFundingSourceListType

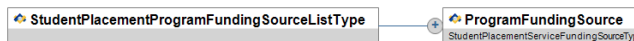


Figure A.619-1: StudentPlacementProgramFundingSourceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentPlacementProgramFundingSourceList				List
ProgramFundingSource	MR			StudentPlacementServiceFundingSourceType

Table A.619-1: StudentPlacementProgramFundingSourceListType

A.620 StudentPlacementServiceFundingSourceListType



Figure A.620-1: StudentPlacementServiceFundingSourceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentPlacementServiceFundingSourceListType				List
ServiceFundingSource	MR			StudentPlacementServiceFundingSourceType

Table A.620-1: StudentPlacementServiceFundingSourceListType

A.621 StudentPlacementServiceFundingSourceType

Funding source for the program, may be more than one.

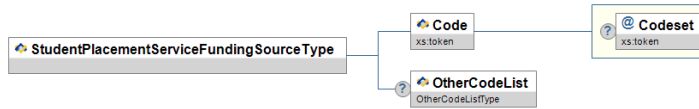


Figure A.621-1: StudentPlacementServiceFundingSourceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentPlacementServiceFundingSourceType			Funding source for the program, may be more than one.	
Code	M		Funding source for the program, may be more than one.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.621-1: StudentPlacementServiceFundingSourceType

A.622 StudentPlacementServiceType

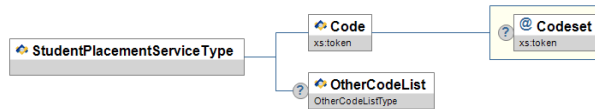


Figure A.622-1: StudentPlacementServiceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentPlacementServiceType	M			
Code	M		Specialized instruction or related / transitional service provided to this student.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.622-1: StudentPlacementServiceType

A.623 StudentProgramAccommodationAccommodationListType

Identifies the specific accommodation. At least one required if the repeating group is sent.

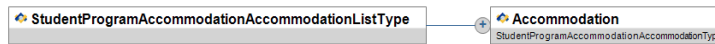


Figure A.623-1: StudentProgramAccommodationAccommodationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentProgramAccommodationAccommodationListType			Identifies the specific accommodation. At least one required if the repeating group is sent.	List
Accommodation	MR			StudentProgramAccommodationAccommodationType

Table A.623-1: StudentProgramAccommodationAccommodationListType

A.624 StudentProgramAccommodationAccommodationType

Identifies the specific accommodation. At least one required if the repeating group is sent.

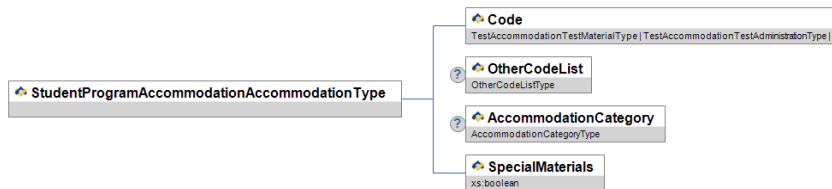


Figure A.624-1: StudentProgramAccommodationAccommodationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentProgramAccommodationAccommodationType			Identifies the specific accommodation. At least one required if the repeating group is sent.	
Code	M	000383 https://ceds.ed.gov/element/000383	Identifies the specific accommodation. At least one required if the repeating group is sent.	union of: TestAccommodationTestMaterialType TestAccommodationTestAdministrationType TestAccommodationTestStudentEquipmentAndTechnologyType TestAccommodationTestResponseType TestAccommodationTestSchedulingType TestAccommodationSettingType additional values: 9999 Other
OtherCodeList	O			OtherCodeListType
AccommodationCategory	O		Defines a general category of test accommodation.	AccommodationCategoryType
SpecialMaterials	M		Accommodation specified requires special materials. Required if the repeating group is sent.	xs:boolean

Table A.624-1: StudentProgramAccommodationAccommodationType

A.625 StudentProgramAccommodationListType

Container. If the requested student no longer requires any accommodations, this element should be omitted.



Figure A.625-1: StudentProgramAccommodationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentProgramAccommodationListType			Container. If the requested student no longer requires any accommodations, this element should be omitted.	
StudentProgramAccommodation	MR		Identifies a program in which the student participates and the accommodations specified by that program.	StudentProgramAccommodationType

Table A.625-1: StudentProgramAccommodationListType

A.626 StudentProgramAccommodationType

Identifies a program in which the student participates and the accommodations specified by that program.

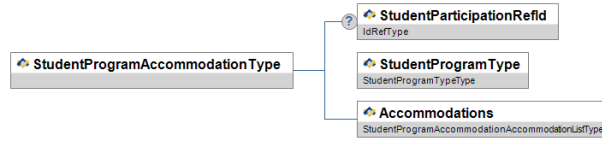


Figure A.626-1: StudentProgramAccommodationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentProgramAccommodationType			Identifies a program in which the student participates and the accommodations specified by that program.	
StudentParticipationRefId	O		Reference to the instance of the StudentParticipation object in which the required test accommodation(s) are specified for the date of the test.	IdRefType
StudentProgramType	M		The value specified in the referenced StudentParticipation object in ProgramType	StudentProgramTypeType
Accommodations	M		Identifies the specific accommodation. At least one required if the repeating group is sent.	StudentProgramAccommodationAccommodationListType

Table A.626-1: StudentProgramAccommodationType

A.627 StudentProgramTypeType

The value specified in the referenced StudentParticipation object in ProgramType

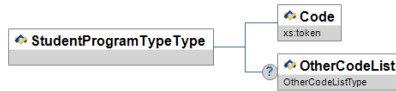


Figure A.627-1: StudentProgramTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentProgramTypeType	M		The value specified in the referenced StudentParticipation object in ProgramType	
Code	M		The value specified in the referenced StudentParticipation object in ProgramType	xs:token
OtherCodeList	O			OtherCodeListType

Table A.627-1: StudentProgramTypeType

A.628 StudentRecordsType

All records associated with the student.

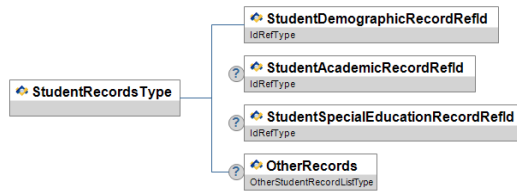


Figure A.628-1: StudentRecordsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentRecordsType			All records associated with the student.	
StudentDemographicRecordRefId	M			IdRefType
StudentAcademicRecordRefId	O			IdRefType
StudentSpecialEducationRecordRefId	O			IdRefType
OtherRecords	O		Other records or content not defined by SIF, but associated with the student. Wrapped in StudentRecordPackage..	OtherStudentRecordListType

Table A.628-1: StudentRecordsType

A.629 StudentResponseSetItemListType

Container for item elements.

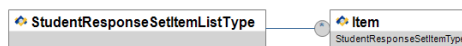


Figure A.629-1: StudentResponseSetItemListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentResponseSetItemListType			Container for item elements.	List
Item	OR		The item contains response data and metadata for each item.	StudentResponseSetItemType

Table A.629-1: StudentResponseSetItemListType

A.630 StudentResponseSetItemType

The item contains response data and metadata for each item.

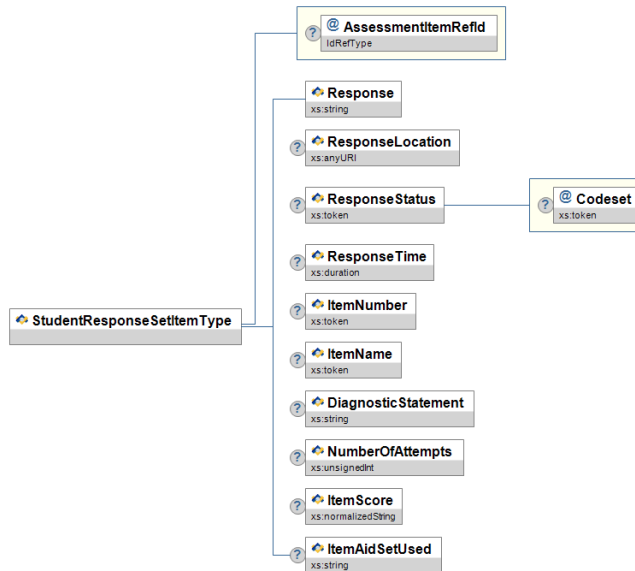


Figure A.630-1: StudentResponseSetItemType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentResponseSetItemType			The item contains response data and metadata for each item.	
AssessmentItemRefId	O		A GUID that identifies the item object associated with this student result.	idRefType
Response	M		Answer selected or student work in raw format. Examples c. 19	xs:string
ResponseLocation	O		An optional element that contains a URL pointing to the location of the response or additional response.	xs:anyURI
ResponseStatus	O	000405 https://ceds.ed.gov/element/000405	Status of the response.	xs:token
Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
ResponseTime	O	000407 https://ceds.ed.gov/element/000407	The length of time the student took to respond.	xs:duration
ItemNumber	O		Identifies the item on the assessment by number.	xs:token
ItemName	O		Identifies the item on the assessment by name.	xs:token
DiagnosticStatement	O		Psychometric purpose or design-related comment about the question.	xs:string
NumberOfAttempts	O		The number of times a student changes their answer or attempts a response.	xs:unsignedInt
ItemScore	O	000245 https://ceds.ed.gov/element/000245	This is the score the student received on the specific item.	xs:normalizedString
ItemAidSetUsed	O	002397 https://ceds.ed.gov/element/002397	A tool or aid set used while viewing the item	xs:string

Table A.630-1: StudentResponseSetItemType

A.631 StudentSchoolEnrollmentDataType

Collects elements of interest from StudentSchoolEnrollment.

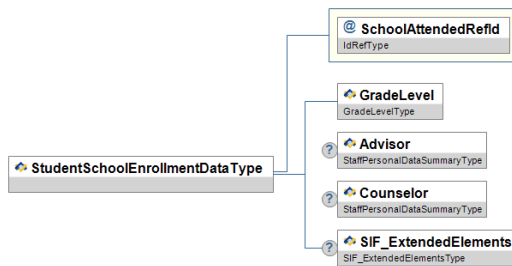


Figure A.631-1: StudentSchoolEnrollmentDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentSchoolEnrollmentDataType			Collects elements of interest from StudentSchoolEnrollment.	
SchoolAttendedRefId	M	000365 https://ceds.ed.gov/element/000365	References the school of record for the student (see SchoolAttended).	idRefType
GradeLevel	M			GradeLevelType
Advisor	O		Staff member assigned to the student as an advisor.	StaffPersonalDataSummaryType
Counselor	O		Staff member assigned to the student as a counselor.	StaffPersonalDataSummaryType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.631-1: StudentSchoolEnrollmentDataType

A.632 StudentSchoolEnrollmentSummaryListType

A list of each enrollment in the schools above (see SchoolAttended).

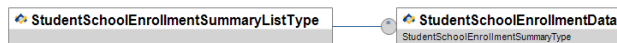


Figure A.632-1: StudentSchoolEnrollmentSummaryListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentSchoolEnrollmentSummaryListType			A list of each enrollment in the schools above (see SchoolAttended).	List
StudentSchoolEnrollmentData	OR		Collects elements of interest from StudentSchoolEnrollment.	StudentSchoolEnrollmentSummaryType

Table A.632-1: StudentSchoolEnrollmentSummaryListType

A.633 StudentSchoolEnrollmentSummaryType

Collects elements of interest from StudentSchoolEnrollment.

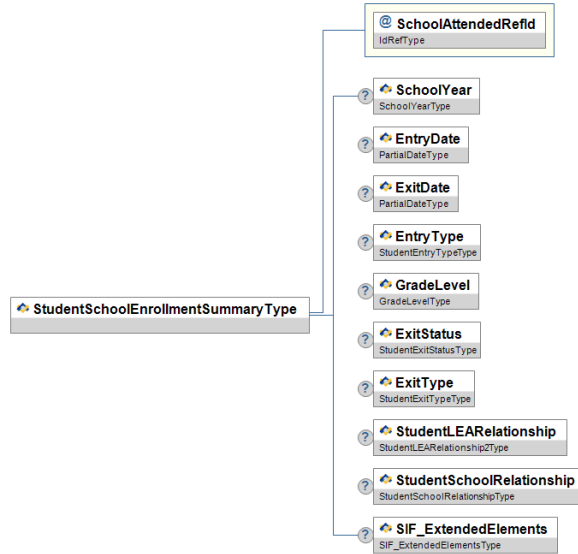


Figure A.633-1: StudentSchoolEnrollmentSummaryType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
StudentSchoolEnrollmentSummaryType			Collects elements of interest from StudentSchoolEnrollment.	
Ⓜ SchoolAttendedRefId	M		Reference to SchoolAttended.	IdRefType
SchoolYear	O			SchoolYearType
EntryDate	O			PartialDateType
ExitDate	C		Note: Mandatory if student exited school.	PartialDateType
EntryType	O			StudentEntryTypeType
GradeLevel	O		Grade or academic level of student.	GradeLevelType
ExitStatus	O			StudentExitStatusType
ExitType	O			StudentExitTypeType
StudentLEARelationship	O			StudentLEARelationshipType
StudentSchoolRelationship	O			StudentSchoolRelationshipType
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.633-1: StudentSchoolEnrollmentSummaryType

A.634 StudentSchoolRelationshipResidencyStatusType

Location of an individual's legal residence relative to (within or outside) the boundaries of the school for the enrollment reported.

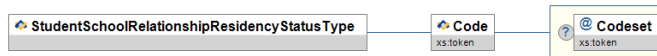


Figure A.634-1: StudentSchoolRelationshipResidencyStatusType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
StudentSchoolRelationshipResidencyStatusType			Location of an individual's legal residence relative to (within or outside) the boundaries of the school for the enrollment reported.	
Code	M		Code indicating the residency status for this enrollment.	xs:token
Ⓜ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.634-1: StudentSchoolRelationshipResidencyStatusType

A.635 StudentSchoolRelationshipType

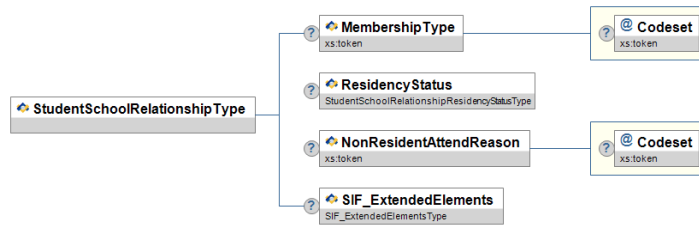


Figure A.635-1: StudentSchoolRelationshipType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
StudentSchoolRelationshipType				
MembershipType	O		The type of this affiliation as it relates to the school identified.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
ResidencyStatus	O		Location of an individual's legal residence relative to (within or outside) the boundaries of the school for the enrollment reported.	StudentSchoolRelationshipResidencyStatusType
NonResidentAttendReason	C		If the school represented by this enrollment is outside of the student's usual attendance area (as indicated in the ResidencyStatus element), this element indicates the reason that the student attends this school.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.635-1: StudentSchoolRelationshipType

A.636 StudentScoreSetScoreListType

Container for score elements.

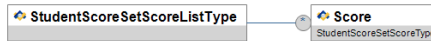


Figure A.636-1: StudentScoreSetScoreListType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
StudentScoreSetScoreListType			Container for score elements.	List
Score	OR		The score with other information related to the score.	StudentScoreSetScoreType

Table A.636-1: StudentScoreSetScoreListType

A.637 StudentScoreSetScoreType

The score with other information related to the score.

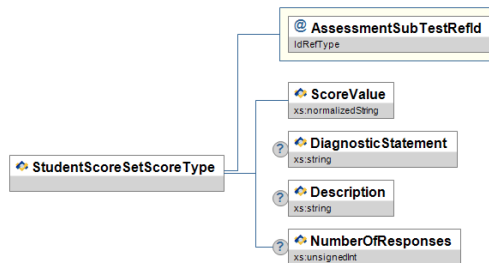


Figure A.637-1: StudentScoreSetScoreType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
StudentScoreSetScoreType			The score with other information related to the score.	
@ AssessmentSubTestRefId	M		References the AssessmentSubTest that defines the score.	IdRefType
ScoreValue	M	000724 https://ceds.ed.gov/element/000724	The value of the score.	xs:normalizedString
DiagnosticStatement	O	000394 https://ceds.ed.gov/element/000394	Comment created by any logical analysis of this score.	xs:string
Description	O	000573 https://ceds.ed.gov/element/000573	This is further qualification of a Student Score.	xs:string
NumberOfResponses	O		This is the number of responses that are included with the StudentScoreSet.	xs:unsignedInt

Table A.637-1: StudentScoreSetScoreType

A.638 StudentSectionMarkListType

A list of marks received for this student in this section. For each Mark entry, at least one of the sub-elements must be specified.



Figure A.638-1: StudentSectionMarkListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentSectionMarkListType			A list of marks received for this student in this section. For each Mark entry, at least one of the sub-elements must be specified.	List
Mark	MR		Outer wrapper for marks reported for this section, in this term.	StudentSectionMarkType

Table A.638-1: StudentSectionMarkListType

A.639 StudentSectionMarkType

Outer wrapper for marks reported for this section, in this term.

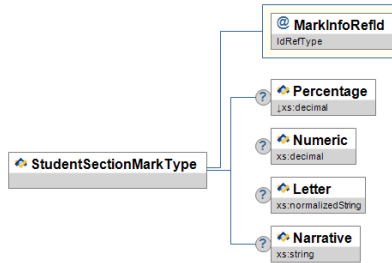


Figure A.639-1: StudentSectionMarkType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentSectionMarkType			Outer wrapper for marks reported for this section, in this term.	
@MarkInfoRefId	M		The Id (GUID) that identifies a mark that was given for this student.	IdRefType
Percentage	C		The percent score for this mark (0.00 - 100.00).	xs:decimal <small>decimalFractionDigits 0 totalDigits 100 fractionDigits 2</small>
Numeric	C		The raw numeric score for this mark.	xs:decimal
Letter	C		The letter grade for this mark.	xs:normalizedString
Narrative	C		The free form text narrative for this mark.	xs:string

Table A.639-1: StudentSectionMarkType

A.640 StudentSpecialConditionListType

Records student-specific special conditions during the test.



Figure A.640-1: StudentSpecialConditionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentSpecialConditionListType			Records student-specific special conditions during the test.	List
StudentSpecialCondition	MR		A description of the special condition. Student special conditions are different from special conditions of the test.	StudentSpecialConditionType

Table A.640-1: StudentSpecialConditionListType

A.641 StudentSpecialConditionType

A description of the special condition. Student special conditions are different from special conditions of the test.



Figure A.641-1: StudentSpecialConditionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentSpecialConditionType			A description of the special condition. Student special conditions are different from special conditions of the test.	xs:string
@Code	M		A code indicating the type of special condition.	xs:token

Table A.641-1: StudentSpecialConditionType

A.642 StudentSpecialEducationSummaryStudentParticipationListType



Figure A.642-1: StudentSpecialEducationSummaryStudentParticipationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentSpecialEducationSummaryStudentParticipationListType				List
StudentParticipationData	MR		Collects elements of interest for each StudentParticipation.	StudentSpecialEducationSummaryStudentParticipationType

Table A.642-1: StudentSpecialEducationSummaryStudentParticipationListType

A.643 StudentSpecialEducationSummaryStudentParticipationType

Collects elements of interest for each StudentParticipation.

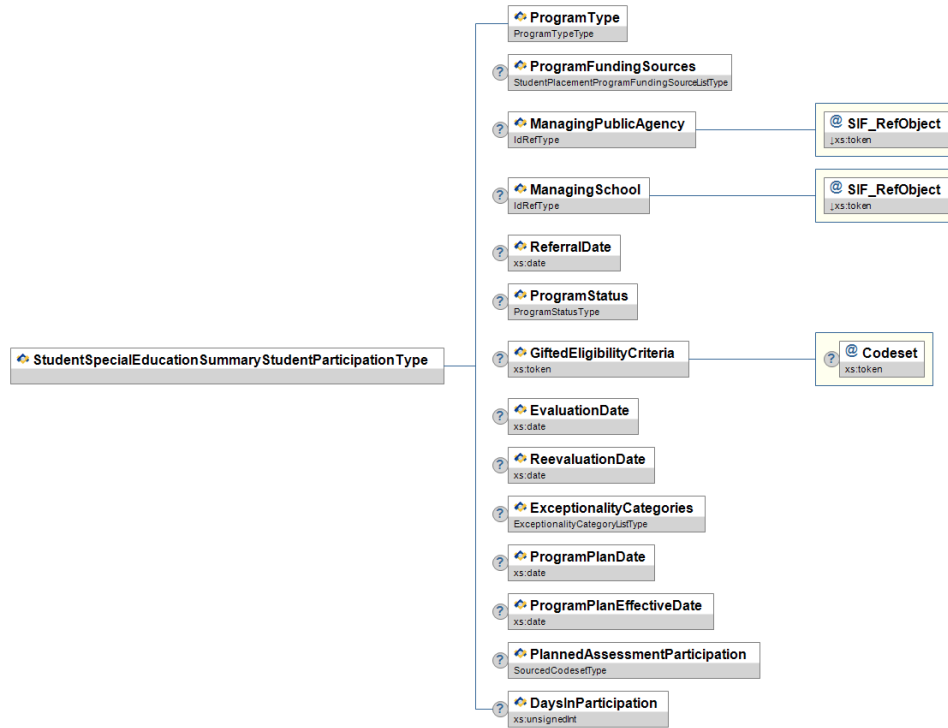


Figure A.643-1: StudentSpecialEducationSummaryStudentParticipationType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
StudentSpecialEducationSummaryStudentParticipationType			Collects elements of interest for each StudentParticipation.	
ProgramType	M			ProgramTypeType
ProgramFundingSources	O			StudentPlacementProgramFundingSourceListType
ManagingPublicAgency	O	000638 https://ceds.ed.gov/element/000638	The GUID of the public agency (a district / LEA) to which the "ManagingSchool" reports / belongs.	IdRefType
@ SIF_RefObject	M			values: LEAInfo
ManagingSchool	O		The GUID of the school responsible for coordinating the student's program participation.	IdRefType
@ SIF_RefObject	M			values: SchoolInfo
ReferralDate	O			xs:date
ProgramStatus	O			ProgramStatusType
GiftedEligibilityCriteria	O	000151 https://ceds.ed.gov/element/000151	State / local code used to determine eligibility for Gifted / Talented program.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
EvaluationDate	O			xs:date
ReevaluationDate	O			xs:date
ExceptionalityCategories	O			ExceptionalityCategoryListType
ProgramPlanDate	O			xs:date
ProgramPlanEffectiveDate	O			xs:date
PlannedAssessmentParticipation	O			SourcedCodesetType
DaysInParticipation	O			xs:unsignedInt

Table A.643-1: StudentSpecialEducationSummaryStudentParticipationType

A.644 StudentSpecialEducationSummaryStudentPlacementListType

This list contains information that describes each specific instructional, related or transitional service that has been prescribed or recommended in the program plan developed for a student who has been placed in an individualized special program.

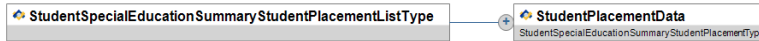


Figure A.644-1: StudentSpecialEducationSummaryStudentPlacementListType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
StudentSpecialEducationSummaryStudentPlacementListType			This list contains information that describes each specific instructional, related or transitional service that has been prescribed or recommended in the program plan developed for a student who has been placed in an individualized special program.	List
StudentPlacementData	MR		Collects elements of interest for each StudentPlacement.	StudentSpecialEducationSummaryStudentPlacementType

Table A.644-1: StudentSpecialEducationSummaryStudentPlacementListType

A.645 StudentSpecialEducationSummaryStudentPlacementType

Collects elements of interest for each StudentPlacement.

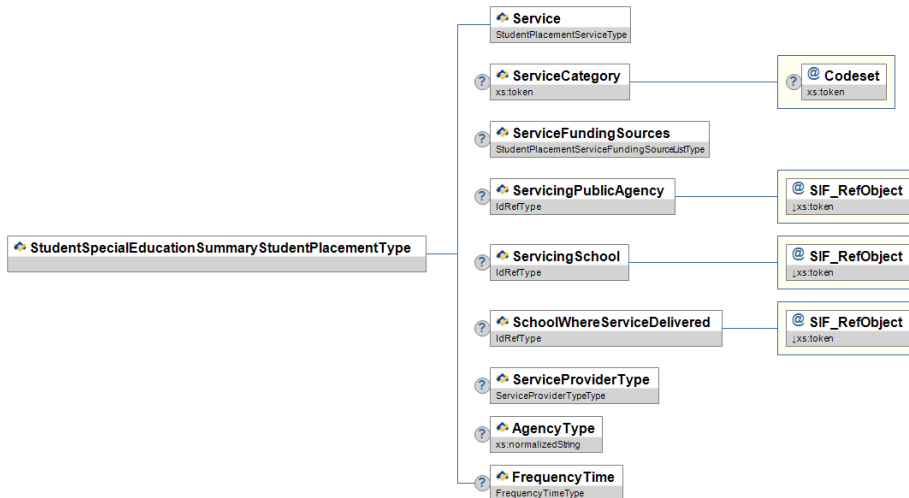


Figure A.645-1: StudentSpecialEducationSummaryStudentPlacementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
StudentSpecialEducationSummaryStudentPlacementType			Collects elements of interest for each StudentPlacement.	
Service	M		Specialized instruction or related / transitional service provided to this student.	StudentPlacementServiceType
ServiceCategory	O		Category of service (for example, whether it is instruction or a related / transitional service or a supplemental service). Typically designated by a state.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
ServiceFundingSources	O			StudentPlacementServiceFundingSourceListType
ServicingPublicAgency	O		The GUID of the public agency (a district / LEA) to which the "ServicingSchool" reports / belongs.	IdRefType
@ SIF_RefObject	M			values: LEAInfo
ServicingSchool	O		The GUID of the school responsible for providing and coordinating this service (but physical location where service delivered could be different and is identified in SchoolWhereServiceDelivered).	IdRefType
@ SIF_RefObject	M			values: SchoolInfo
SchoolWhereServiceDelivered	O		The GUID of the school where the service is delivered.	IdRefType
@ SIF_RefObject	M			values: SchoolInfo
ServiceProviderType	O			ServiceProviderTypeType
AgencyType	O		Identifies an agency or clinic that will provide the specified service.	xs:normalizedString
FrequencyTime	O			FrequencyTimeType

Table A.645-1: StudentSpecialEducationSummaryStudentPlacementType

A.646 SubjectAreaListType

A list of subject areas.

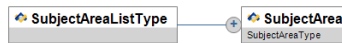


Figure A.646-1: SubjectAreaListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SubjectAreaListType			A list of subject areas.	List
SubjectArea	MR		Subject matter.	SubjectAreaType

Table A.646-1: SubjectAreaListType

```

JSON
XML

<SubjectAreaList>
  <SubjectArea>
    <Code>05</Code>
    <OtherCodeList>
      <OtherCode Codeset="Text">Graphic Arts</OtherCode>
    </OtherCodeList>
  </SubjectArea>
</SubjectAreaList>
    
```

Example A.646-1: SubjectAreaListType

A.647 SubjectAreasType

This allows subject areas to be associated with an object or query. Although there could be overlap with LearningStandardItem, it is anticipated there will be use cases where LearningStandardItem objects may not exist or may not be available, and data may need to be tagged with high-level subject areas.



Figure A.647-1: SubjectAreasType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SubjectAreasType	O		This allows subject areas to be associated with an object or query. Although there could be overlap with LearningStandardItem, it is anticipated there will be use cases where LearningStandardItem objects may not exist or may not be available, and data may need to be tagged with high-level subject areas.	List
SubjectArea	MR			SubjectAreaType

Table A.647-1: SubjectAreasType

A.648 SubjectAreaType

This is a common element used to designate the subject area of a course or other learning materials, or a department. It is used in SchoolCourseInfo and learning-related objects.

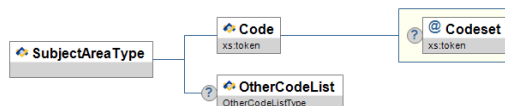


Figure A.648-1: SubjectAreaType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
SubjectAreaType			This is a common element used to designate the subject area of a course or other learning materials, or a department. It is used in SchoolCourseInfo and learning-related objects.	
Code	M	000702 https://ceds.ed.gov/element/000702	The subject area code (i.e., the first two digits of the course classification code).	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.648-1: SubjectAreaType

```

JSON
XML

<SubjectArea>
  <Code>00702</Code>
  <OtherCodeList>
    <OtherCode Codeset="text">Graphic Arts</OtherCode>
  </OtherCodeList>
</SubjectArea>
    
```

Example A.648-1: SubjectAreaType

A.649 TargetListType

List of specific end aims.

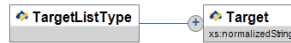


Figure A.649-1: TargetListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TargetListType	O		List of specific end aims.	List
Target	MR		The specific end aim that is desired to achieve for the student.	xs:normalizedString

Table A.649-1: TargetListType

A.650 TargetObjectListType

List of target objects for the learning standard linkage.



Figure A.650-1: TargetObjectListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TargetObjectListType	O		List of target objects for the learning standard linkage.	List
TargetObject	MR		At least one target for the learning standard linkage.	TargetObjectType

Table A.650-1: TargetObjectListType

A.651 TargetObjectType

Target object for the learning standard linkage.

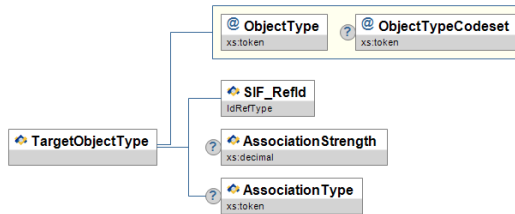


Figure A.651-1: TargetObjectType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TargetObjectType			Target object for the learning standard linkage.	
@ ObjectType	M		The Target Object name referenced.	xs:token
@ ObjectTypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
SIF_RefId	M		The RefId for the LearningResource or AssessmentItem	IDRefType
AssociationStrength	O		A number greater than 0 and less than or equal to 1. This indicates the strength of the association between the one or more Learning Standards and this target object.	xs:decimal
AssociationType	O		The type of relationship or cardinality being modeled, e.g., predecessor, prerequisite, unidirectional, nondirectional, is a component of, etc.	xs:token

Table A.651-1: TargetObjectType

A.652 TeachingAssignmentType

The teacher field taught by the individual

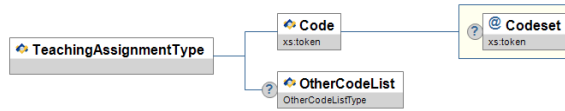


Figure A.652-1: TeachingAssignmentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TeachingAssignmentType	O		The teacher field taught by the individual	
Code	M	002276 https://ceds.ed.gov/element/002276	Code representing the type of teaching assignment.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.652-1: TeachingAssignmentType

A.653 TechnicalRequirementsType

A list of operating system, network, and other technical requirements.

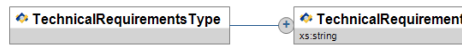


Figure A.653-1: TechnicalRequirementsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TechnicalRequirementsType			A list of operating system, network, and other technical requirements.	List
TechnicalRequirement	MR		an operating system, network, or other technical requirement.	xs:string

Table A.653-1: TechnicalRequirementsType

JSON XML

```

<TechnicalRequirements>
  <TechnicalRequirement>Internet Explorer 5.5 or greater</TechnicalRequirement>
</TechnicalRequirements>
    
```

Example A.653-1: TechnicalRequirementsType

A.654 TelemetryListType

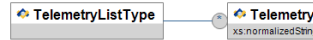


Figure A.654-1: TelemetryListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TelemetryListType				List
Telemetry	OR		<p>Indicators and values provided by the hardware along with this position snapshot. For events, it is safe to assume that one of these items triggered the hardware to issue an update.</p> <p>The following values are suggested for common reports to enhance interoperability, but each deployment will have items dictated by the infrastructure. A format for reporting continuous-value metrics is also suggested.</p> <p>Suggested Values:</p> <ul style="list-style-type: none"> Panic—panic button pressed Accident—airbag deployed or some other detection Checkpoint—manually triggered per procedures Assistance—non-emergency request Timer—timed report RouteStatus—change to RouteStatus/Status Open—door open Close—door closed ToD—shifted into "Drive" OffD—shifted off "Drive" StpLght—Stop Lights are on WrngLght—Warning lights are on StpArm—Stop arm is out CrsngGt—Crossing gate is extended EcmOp—ECM Oil Pressure is Low EcmOt—ECM Oil Temperature is high EcmTt—ECM transmission temperature is high EcmTp—Transmission Oil Pressure is low EcmFuelPrs—ECM Fuel Pressure is low EcmExtIdle—ECM Extended engine idle period EcmOvrSpeed—ECM engine over Speed EcmVltg—ECM Voltage is low OutBndry—Out of Boundary FuelGauge-3dpet—suggested continuous-value syntax, minimal use of special characters 	xs:normalizedString

Table A.654-1: TelemetryListType

A.655 TermMarkListsType

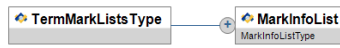


Figure A.655-1: TermMarkListsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TermMarkListsType				ActionList (MarkInfoList/#TermInfoId)
MarkInfoList	MR		The grading-related information for a section, repeating for each marking period (TermInfo) in which the section reports Marks.	MarkInfoListType

Table A.655-1: TermMarkListsType

A.656 TermPerformanceType

Individual term performance.

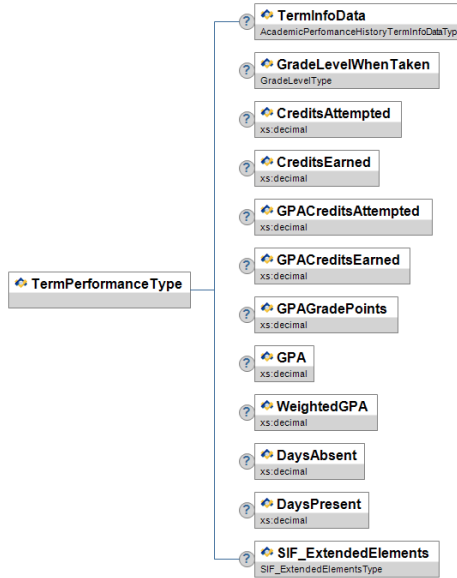


Figure A.656-1: TermPerformanceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TermPerformanceType			Individual term performance.	
TermInfoData	O		Collects elements of interest from TermInfo.	AcademicPerformanceHistoryTermInfoDataType
GradeLevelWhenTaken	O		Student's grade level at time.	GradeLevelType
CreditsAttempted	O		Number of credits attempted.	xs:decimal
CreditsEarned	O		Number of credits earned.	xs:decimal
GPACreditsAttempted	O		Number of GPA credits attempted.	xs:decimal
GPACreditsEarned	O		Number of GPA credits earned.	xs:decimal
GPAGradePoints	O		Number of GPA points received.	xs:decimal
GPA	O		Grade point average for term.	xs:decimal
WeightedGPA	O		Weighted grade point average for term.	xs:decimal
DaysAbsent	O		Number of days absent.	xs:decimal
DaysPresent	O		Number of days present.	xs:decimal
SIF_ExtendedElements	O			SIF_ExtendedElementsType

Table A.656-1: TermPerformanceType

A.657 TermSpanType

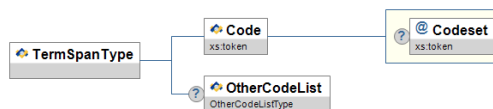


Figure A.657-1: TermSpanType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TermSpanType				
Code	M		Code for session type.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.657-1: TermSpanType

```

JSON
XML

<TermSpan>
  <Code>S2E</Code>
  <OtherCodeList>
    <OtherCode Codeset="Text">Semester</OtherCode>
  </OtherCodeList>
</TermSpan>
    
```

Example A.657-1: TermSpanType

A.658 TextDataType

Contains arbitrary text, encoded in UTF-8.

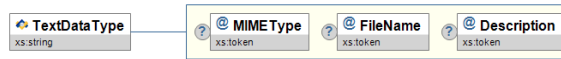


Figure A.658-1: TextDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TextDataType	C		Contains arbitrary text, encoded in UTF-8.	xs:string
@ MIMEType	O		Optional MIME type to specifically indicate the text type. Otherwise <code>text/plain</code> can be assumed.	xs:token
@ FileName	O		Optional file name to indicate the file from which the content originated, or to suggest a name to use when saving the content.	xs:token
@ Description	O		Contains an optional description of the content or a processing hint with regard to its structure (e.g. named standard, file layout or XSD). Contents may be mandated in instances of this type, or types that follow the <code>AbstractContentPackageType</code> pattern.	xs:token

Table A.658-1: TextDataType

A.659 tiepHistoryItemIepDatesType

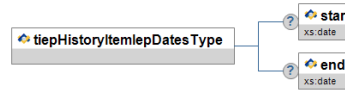


Figure A.659-1: tiepHistoryItemIepDatesType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
tiepHistoryItemIepDatesType				
start	O	001236 https://ceds.ed.gov/element/001236	The year, month and day on which the status of the service plan for a child is established or significantly altered.	xs:date
end	O	001683 https://ceds.ed.gov/element/001683	The year, month and day on which the status of the service plan for a child effectively ends.	xs:date

Table A.659-1: tiepHistoryItemIepDatesType

A.660 tiepHistoryListItemType

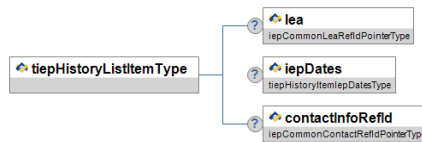


Figure A.660-1: tiepHistoryListItemType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
tiepHistoryListItemType			tiepHistoryListItemType is the base type for the following data types: <ul style="list-style-type: none"> tiepHistoryListType 	
lea	O		Pointer to school or other LEA where this historical IEP was created	IepCommonLeaRefIdPointerType
iepDates	O		Period that IEP is in effect	tiepHistoryItemIepDatesType
contactInfoRefId	O		Pointer to a person who has additional information about this IEP	IepCommonContactRefIdPointerType

Table A.660-1: tiepHistoryListItemType

A.661 tiepHistoryListType

List of previous IEPs and contact information for additional research.

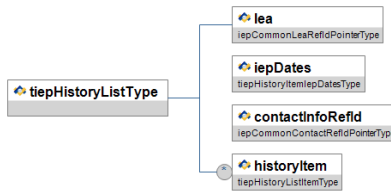


Figure A.661-1: tiepHistoryListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
tiepHistoryListType			List of previous IEPs and contact information for additional research.	Extension of tiepHistoryListItemType
lea	O		Pointer to school or other LEA where this historical IEP was created	iepCommonLeaRefIdPointerType
iepDates	O		Period that IEP is in effect	tiepHistoryItemIepDatesType
contactInfoRefId	O		Pointer to a person who has additional information about this IEP	iepCommonContactRefIdPointerType
historyItem	OR		Documentation of existence of previous IEP and information about where to find out more information	tiepHistoryListItemType

Table A.661-1: tiepHistoryListType

A.662 tiepReferenceObjectContactListType

List of contacts referenced in the IEP



Figure A.662-1: tiepReferenceObjectContactListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
tiepReferenceObjectContactListType			List of contacts referenced in the IEP	
referenceContactPerson	OR		Information for a contact person referenced in the IEP by iepCommonContactRefIdPointerType	xContactType

Table A.662-1: tiepReferenceObjectContactListType

A.663 tiepReferenceObjectLeaListType

List of schools or other LEAs referenced in the IEP

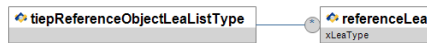


Figure A.663-1: tiepReferenceObjectLeaListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
tiepReferenceObjectLeaListType			List of schools or other LEAs referenced in the IEP	
referenceLea	OR		Information for a school or other Local Education Agency referenced in the IEP by iepCommonLeaRefIdPointerType	xLeaType

Table A.663-1: tiepReferenceObjectLeaListType

A.664 tiepReferenceObjectOrganizationListType

List of organizations referenced in the IEP

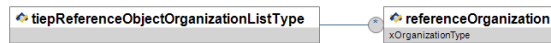


Figure A.664-1: tiepReferenceObjectOrganizationListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
tiepReferenceObjectOrganizationListType			List of organizations referenced in the IEP	
referenceOrganization	OR		Information for an organization referenced in the IEP by iepStaffRefIdPointerType	xOrganizationType

Table A.664-1: tiepReferenceObjectOrganizationListType

A.665 tiepReferenceObjectStaffListType

List of staff members referenced in the IEP

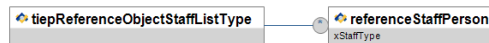


Figure A.665-1: tiepReferenceObjectStaffListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
tiepReferenceObjectStaffListType			List of staff members referenced in the IEP	
referenceStaffPerson	OR		Information for a staff person referenced in the IEP by iepStaffRefIdPointerType	xStaffType

Table A.665-1: tiepReferenceObjectStaffListType

A.666 tiepReferenceObjectsType

This is the root entity of SIF objects. It is the highest level object in the SIF Conceptual Model for Education.

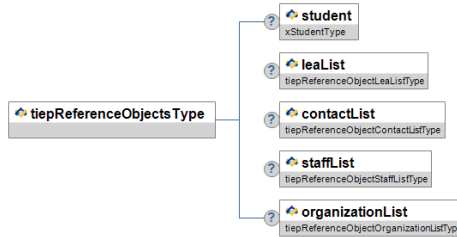


Figure A.666-1: tiepReferenceObjectsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
tiepReferenceObjectsType			This is the root entity of SIF objects. It is the highest level object in the SIF Conceptual Model for Education.	
student	O		Student who is the subject of this IEP	xStudentType
leaList	O		List of school or other Local Education Agencies referenced in this IEP	tiepReferenceObjectLeaListType
contactList	O		List of xContact objects for people who referenced in this IEP	tiepReferenceObjectContactListType
staffList	O		List of xStaff objects for staff members who participate in this IEP	tiepReferenceObjectStaffListType
organizationList	O		List of xOrganization objects for organizations that participate in this IEP	tiepReferenceObjectOrganizationListType

Table A.666-1: tiepReferenceObjectsType

A.667 TimeElementsType

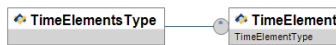


Figure A.667-1: TimeElementsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TimeElementsType	O			List
TimeElement	OR			TimeElementType

Table A.667-1: TimeElementsType

A.668 TimeElementType

A common metadata element designed to contain time data, both self-defined and by type.

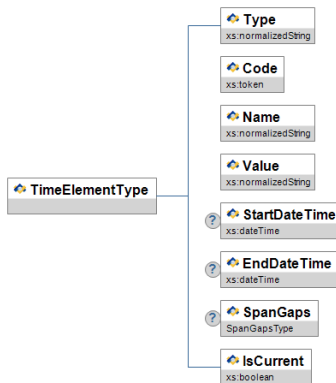


Figure A.668-1: TimeElementType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TimeElementType			A common metadata element designed to contain time data, both self-defined and by type.	
Type	M		This element is designed to contain the time period attached to an object. Very long periods (school year, quarter, etc.) and very small periods (second, millisecond, etc.) can be defined. This element provides a scoping description of the time metadata enclosed. Because the educational environment varies so greatly we are including here a suggested but not prescriptive list of values. Although there may be unique needs for values not covered here—and we may have missed a major one—a best practice would be to utilize the examples here to enhance interoperability. Examples Full school year Mini-term Long session Other Semester Trimester Quarter Spring Vacation Summer Term Intercession Holiday	xs:normalizedString
Code	M		This element provides a place for the application to send structured data (code values, unique identifier, timestamps). This code value can, depending upon the use case agreement between agents, be used to qualify the data in the value element. Examples 2007SY 2006_FallConferences	xs:token
Name	M		Contains a human-readable description of the value in Value. Examples Class of 97 Fall 2007 Parent-Teacher Conferences	xs:normalizedString
Value	M		Contains the human-readable value. Examples 2007 Evening of 10/12/06	xs:normalizedString
StartDateTime	O			xs:dateTime
EndDateTime	O			xs:dateTime
SpanGaps	O		A container element for holding multiple possible span gaps.	SpanGapType
IsCurrent	M		This element allows for the system to tag an object as being explicitly current. Although the baseline assumption in SIF is that objects are always current (default value is typically true), there are use cases when that is not the case.	xs:boolean

Table A.668-1: TimeElementType

JSON XML

```
<TimeElement>
  <Type>Full school year</Type>
  <Code>91</Code>
  <Name>2004/2005 School Year</Name>
  <Value>2004-2005</Value>
  <StartDateTime>2004-09-01T00:00:00-05:00</StartDateTime>
  <EndDateTime>2005-06-30T15:00:00-05:00</EndDateTime>
  <SpanGaps>
    <Type>Holiday</Type>
    <Code>92</Code>
    <Name>2005 Winter Break</Name>
    <Value>2005 Winter Break</Value>
    <StartDateTime>2005-02-21T15:00:00-05:00</StartDateTime>
    <EndDateTime>2005-02-25T08:00:00-05:00</EndDateTime>
  </SpanGaps>
</TimeElement>
```

A.669 TimetableDayListType

The timetable days for this school year bell schedule. This essentially provides a list of the time day identifiers that are used in the BellPeriod definitions below with some additional properties for each. The identifiers defined here may be referenced by other objects / elements like MeetingTime.



Figure A.669-1: TimetableDayListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TimetableDayListType	M		The timetable days for this school year bell schedule. This essentially provides a list of the time day identifiers that are used in the BellPeriod definitions below with some additional properties for each. The identifiers defined here may be referenced by other objects / elements like MeetingTime.	List
TimetableDay	MR		An entry for each unique timetable day.	TimetableDayType

Table A.669-1: TimetableDayListType

A.670 TimetableDayType

An entry for each unique timetable day

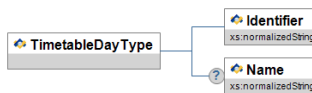


Figure A.670-1: TimetableDayType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TimetableDayType	MR		An entry for each unique timetable day	
Identifier	M		The unique identifier for the timetable day for this school calendar.	xs:normalizedString
Name	O		The name of the timetable day.	xs:normalizedString

Table A.670-1: TimetableDayType

A.671 TimetablePeriodListType

The timetable periods for this school year bell schedule. This essentially provides a list of the time period identifiers that are used in the BellPeriod definitions below with some addition properties for each. The identifiers defined here may be referenced by other objects / elements like MeetingTime



Figure A.671-1: TimetablePeriodListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TimetablePeriodListType	M		The timetable periods for this school year bell schedule. This essentially provides a list of the time period identifiers that are used in the BellPeriod definitions below with some addition properties for each. The identifiers defined here may be referenced by other objects / elements like MeetingTime	List
TimetablePeriod	MR		An entry for each unique timetable period.	TimetablePeriodType

Table A.671-1: TimetablePeriodListType

A.672 TimetablePeriodType

An entry for each unique timetable period.

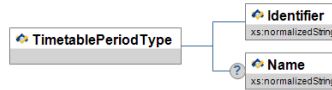


Figure A.672-1: TimetablePeriodType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TimetablePeriodType	MR		An entry for each unique timetable period.	
Identifier	M		The unique identifier for the timetable period for this school calendar.	xs:normalizedString
Name	O		The name of the timetable period.	xs:normalizedString

Table A.672-1: TimetablePeriodType

A.673 TitleType

Is the student in Title I programs?



Figure A.673-1: TitleType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TitleType			Is the student in Title I programs?	values: Yes No Unknown

Table A.673-1: TitleType

JSON XML

```
<TitleType></TitleType>
```

Example A.673-1: TitleType

A.674 TitleListType



Figure A.674-1: TitleListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TitleListType	M			List
Title	MR		Name of this type of curriculum object (e.g., "American Revolutionary War")	xs:normalizedString

Table A.674-1: TitleListType

A.675 TransferPointListType



Figure A.675-1: TransferPointListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TransferPointListType	M			List
TransferPoint	OR		There should be one TransferPoint element for each intermediate point on a trip. The "embark" and "disembark" bus stops for a single transfer point must be at the same location. To order multiple TransferPoint elements, use the Time element of the BusStopInfo objects referenced by the attributes.	TransferPointType

Table A.675-1: TransferPointListType

A.676 TransferPointType

There should be one TransferPoint element for each intermediate point on a trip. The "embark" and "disembark" bus stops for a single transfer point must be at the same location. To order multiple TransferPoint elements, use the Time element of the BusStopInfo objects referenced by the attributes.

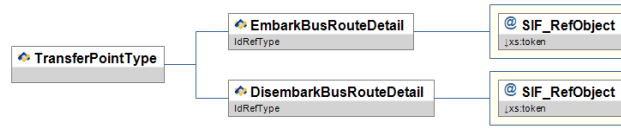


Figure A.676-1: TransferPointType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TransferPointType			There should be one TransferPoint element for each intermediate point on a trip. The "embark" and "disembark" bus stops for a single transfer point must be at the same location. To order multiple TransferPoint elements, use the Time element of the BusStopInfo objects referenced by the attributes.	
EmbarkBusRouteDetail	M		GUID that identifies the bus stop/route where the student gets on the bus.	IdRefType
@ SIF_RefObject	M			values: BusRouteDetail
DisembarkBusRouteDetail	M		GUID that identifies the bus stop/route where the student gets off the bus.	IdRefType
@ SIF_RefObject	M			values: BusRouteDetail

Table A.676-1: TransferPointType

A.677 TypedCreator2Type

Name of a Creator.

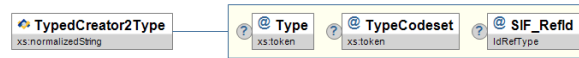


Figure A.677-1: TypedCreator2Type

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TypedCreator2Type			Name of a Creator.	xs.normalizedString
@ Type	O		The type of the object representing the Creator.	xs.token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs.token
@ SIF_RefId	O		RefId of SIF object representing the creator if such exists.	IdRefType

Table A.677-1: TypedCreator2Type

A.678 TypedCreatorType

Name of the Creator of the relationship.

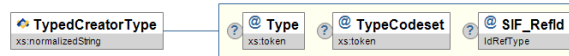


Figure A.678-1: TypedCreatorType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
TypedCreatorType			Name of the Creator of the relationship.	xs.normalizedString
@ Type	O		The object type of the object representing the Creator.	xs.token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs.token
@ SIF_RefId	O		RefId of SIF object representing the creator if such exists.	IdRefType

Table A.678-1: TypedCreatorType

A.679 URIOrBinaryType

Allows for a URL or a Base-64 encoding.



Figure A.679-1: URIOrBinaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
URIOrBinaryType			Allows for a URL or a Base-64 encoding.	union of: xs:anyURI xs:base64Binary

Table A.679-1: URIOrBinaryType

A.680 ValidMarkCleanType

Valid letter Mark.

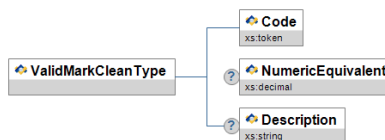


Figure A.680-1: ValidMarkCleanType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ValidMarkCleanType			Valid letter Mark.	
Code	M		String representing the actual Mark that would appear on the report card (e.g., "A+", "I", "100").	xs:token
NumericEquivalent	O	000616 https://ceds.ed.gov/element/000616	Numeric equivalent for the Mark (e.g., 100, 4.0).	xs:decimal
Description	O		The description for this code. (e.g. "Excellent", "Participates in Class", "Incomplete", etc...).	xs:string

Table A.680-1: ValidMarkCleanType

A.681 ValidMarkType

Valid letter Mark.

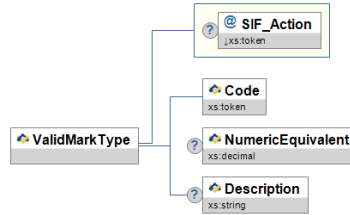


Figure A.681-1: ValidMarkType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
ValidMarkType			Valid letter Mark.	
@_SIF_Action	O		In a change event, this flag can be used to indicate an element has been deleted from the parent list container. At a minimum the key for the list must also be present.	value: Delete
Code	M		String representing the actual Mark that would appear on the report card (e.g., "A+", "I", "100").	xs:token
NumericEquivalent	O		Numeric equivalent for the Mark (e.g., 100, 4.0).	xs:decimal
Description	O		The description for this code. (e.g. "Excellent", "Participates in Class", "Incomplete", etc...).	xs:string

Table A.681-1: ValidMarkType

A.682 VersionType

A SIF version number.

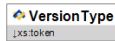


Figure A.682-1: VersionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
VersionType			A SIF version number.	xs:token xs:pattern [(0-9)+[-.][0-9]+{r(0-9)+?} xs:minlength 12

Table A.682-1: VersionType

A.683 VersionWithWildcardsType

A SIF version number, with wildcards for matching multiple versions.



Figure A.683-1: VersionWithWildcardsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
VersionWithWildcardsType			A SIF version number, with wildcards for matching multiple versions.	xs:token xs:pattern \v{((0-9)+[-.][0-9]+{r(0-9)+?})}((0-9)+[-.][0-9]+{r(0-9)+?}) xs:minlength 12

Table A.683-1: VersionWithWildcardsType

A.684 VictimListType

List of victim(s) if the incident is directed toward specific persons or their property.

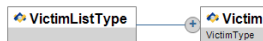


Figure A.684-1: VictimListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
VictimListType	C		List of victim(s) if the incident is directed toward specific persons or their property.	List
Victim	MR		Information regarding the victim(s) in the incident.	VictimType

Table A.684-1: VictimListType

A.685 VictimType

Information regarding the victim(s) in the incident.

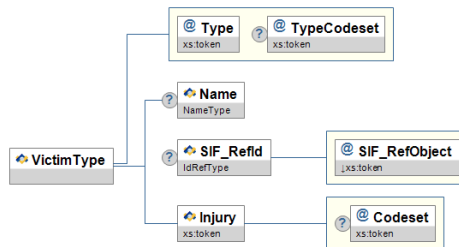


Figure A.685-1: VictimType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
VictimType	MR		Information regarding the victim(s) in the incident.	
@ Type	M		Identifies the type of individual victimized in the incident.	xs:token
@ TypeCodeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
Name	O		The name of the victim.	NameType
SIF_RefId	C		If the Victim Type attribute identifies the victim as a Student or Staff Member, then this element should contain the Id (GUID) of the student or staff to whom this information relates.	IdRefType
@ SIF_RefObject	M		SIF Object to which the SIFRefId relates.	values: StudentPersonal StaffPersonal EmployeePersonal
Injury	M		Identifies whether or not this specific victim was physically injured, and if so, identify whether the injury was major or minor.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.685-1: VictimType

A.686 VocationalConcentratorType

Does the student meet the State criteria for classification as a vocational concentrator?



Figure A.686-1: VocationalConcentratorType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
VocationalConcentratorType			Does the student meet the State criteria for classification as a vocational concentrator?	values: Yes No Unknown

Table A.686-1: VocationalConcentratorType

JSON XML

```
<VocationalConcentrator?>?</VocationalConcentrator>
```

Example A.686-1: VocationalConcentratorType

A.687 WeaponTypeListType

List of weapons involved in the incident. If the incident involves weapons, the element must have a value.

Each weapon used in the incident is identified by a WeaponType entry. When multiple weapons of a single type are used, each weapon has a separate entry in this list.

Weapons used by individual offenders are also reported in WeaponTypeList entries associated to the offender.



Figure A.687-1: WeaponTypeListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
WeaponTypeListType	C		List of weapons involved in the incident. If the incident involves weapons, the element must have a value. Each weapon used in the incident is identified by a WeaponType entry. When multiple weapons of a single type are used, each weapon has a separate entry in this list. Weapons used by individual offenders are also reported in WeaponTypeList entries associated to the offender.	List
WeaponType	MR	000557 https://ceds.ed.gov/clement/000557	Identifies the type of weapon used during an incident.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token

Table A.687-1: WeaponTypeListType

A.688 WhenServiceProvidedType

General timing of service delivery relative to school calendar / schedule.

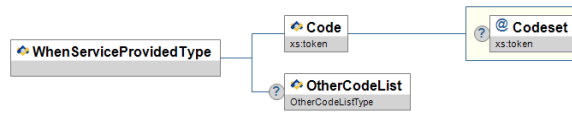


Figure A.688-1: WhenServiceProvidedType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
WhenServiceProvidedType			General timing of service delivery relative to school calendar / schedule.	
Code	M		General timing of service delivery relative to school calendar / schedule.	xs:token
@ Codeset	O		A unique indicator (usually a URL) that points to the codeset used.	xs:token
OtherCodeList	O			OtherCodeListType

Table A.688-1: WhenServiceProvidedType

A.689 xAcademicSummaryType

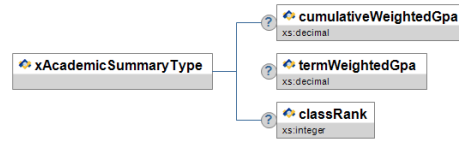


Figure A.689-1: xAcademicSummaryType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xAcademicSummaryType				
cumulativeWeightedGpa	O	000128 https://ceds.ed.gov/element/000128	A measure of average performance in all courses taken by a person during his or her school career as determined for record-keeping purposes. This is obtained by dividing the total grade points received by the total number of credits attempted. This usually includes grade points received and credits attempted in his or her current school as well as those transferred from schools in which the person was previously enrolled.	xs:decimal
termWeightedGpa	O	000129 https://ceds.ed.gov/element/000129	A measure of average performance in all courses taken by a person during a given session. This is obtained by dividing the total grade points received by the number of credits attempted for the same session.	xs:decimal
classRank	O	000041 https://ceds.ed.gov/element/000041	The academic rank of a student in relation to his or her high school graduating class (e.g., 1, 2, 3) based on high school GPA.	xs:integer

Table A.689-1: xAcademicSummaryType

A.690 xApplicableEducationLevelListType

A list of applicable education levels.

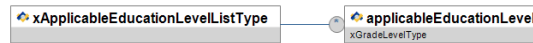


Figure A.690-1: xApplicableEducationLevelListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xApplicableEducationLevelListType			A list of applicable education levels.	
applicableEducationLevel	OR	001301 https://ceds.ed.gov/element/001301	The education level, grade level or primary instructional level at which a course is intended.	xGradeLevelType

Table A.690-1: xApplicableEducationLevelListType

A.691 xContactStudentRelationshipListType

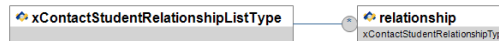


Figure A.691-1: xContactStudentRelationshipListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xContactStudentRelationshipListType				
relationship	OR			xContactStudentRelationshipType

Table A.691-1: xContactStudentRelationshipListType

A.692 xContactStudentRelationshipType

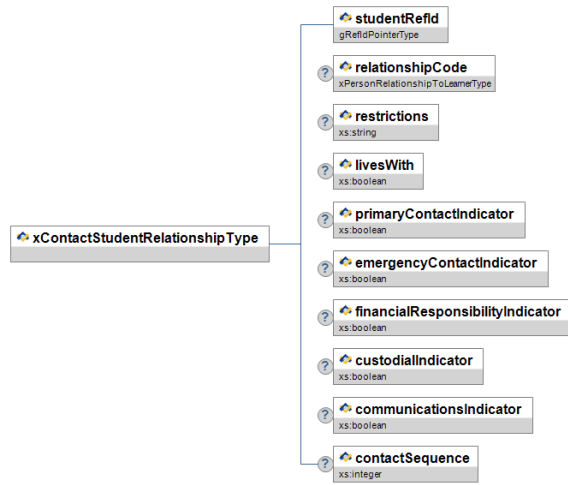


Figure A.692-1: xContactStudentRelationshipType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xContactStudentRelationshipType				
studentRefId	M			gRefIdPointerType
relationshipCode	O			xPersonRelationshipToLearnerType
restrictions	O	001424 https://ceds.ed.gov/element/001424	Restrictions for student and/or teacher contact with the individual (e.g., the student may not be picked up by the individual).	xs:string
livesWith	O	001425 https://ceds.ed.gov/element/001425	Indicates whether or not the learner lives with the related person.	xs:boolean
primaryContactIndicator	O	001428 https://ceds.ed.gov/element/001428	Indicates that a person is a primary contact within the specified context, such as a primary parental contact specified in Person Relationship to Learner or a primary administrative contact for an organization.	xs:boolean
emergencyContactIndicator	O	001341 https://ceds.ed.gov/element/001341	Indicates whether or not the person is a designated emergency contact for the learner.	xs:boolean
financialResponsibilityIndicator	O			xs:boolean
custodialIndicator	O			xs:boolean
communicationsIndicator	O			xs:boolean
contactSequence	O	001423 https://ceds.ed.gov/element/001423	The numeric order in the preferred sequence and priority for contacting a person related to the learner.	xs:integer

Table A.692-1: xContactStudentRelationshipType

A.693 xCourseIdType

The actual code that identifies the organization of subject matter and related learning experiences provided for the instruction of students.



Figure A.693-1: xCourseIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xCourseIdType	O	000055 https://ceds.ed.gov/element/000055	The actual code that identifies the organization of subject matter and related learning experiences provided for the instruction of students.	xs:token

Table A.693-1: xCourseIdType

A.694 xDayListType

A list of days.



Figure A.694-1: xDayListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xDayListType			A list of days.	
bellScheduleDay	O			xDayOfWeekType

Table A.694-1: xDayListType

A.695 xDemographicsType

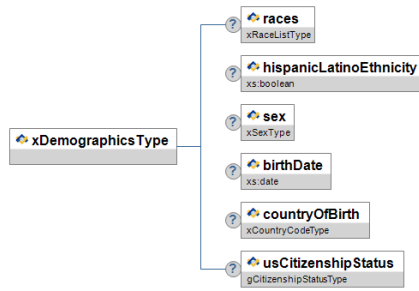


Figure A.695-1: xDemographicsType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xDemographicsType				
races	O		A list of races.	xRaceListType
hispanicLatinoEthnicity	O	000144 https://ceds.ed.gov/element/000144	An indication that the person traces his or her origin or descent to Mexico, Puerto Rico, Cuba, Central and South America, and other Spanish cultures, regardless of race.	xs:boolean
sex	O	000255 https://ceds.ed.gov/element/000255	The concept describing the biological traits that distinguish the males and females of a species.	xSexType
birthDate	O	000033 https://ceds.ed.gov/element/000033	The year, month and day on which a person was born.	xs:date
countryOfBirth	O	000050 https://ceds.ed.gov/element/000050		xCountryCodeType
usCitizenshipStatus	O	000299 https://ceds.ed.gov/element/000299	An indicator of whether or not the person is a US citizen.	gCitizenshipStatusType

Table A.695-1: xDemographicsType

A.696 xEmailListType



Figure A.696-1: xEmailListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xEmailListType				
email	OR	000088 https://ceds.ed.gov/element/000088	The numbers, letters, and symbols used to identify an electronic mail (e-mail) user within the network to which the person or organization belongs.	xEmailType

Table A.696-1: xEmailListType

A.697 xEmailType

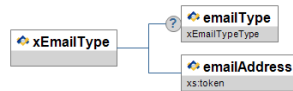


Figure A.697-1: xEmailType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xEmailType				
emailType	O	000089 https://ceds.ed.gov/element/000089	The type of electronic mail (e-mail) address listed for a person or organization.	xEmailTypeType
emailAddress	M	000088 https://ceds.ed.gov/element/000088	The numbers, letters, and symbols used to identify an electronic mail (e-mail) user within the network to which the person or organization belongs.	xs:token

Table A.697-1: xEmailType

A.698 xEnrollmentListType

A list of enrollments.

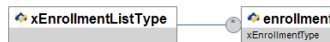


Figure A.698-1: xEnrollmentListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xEnrollmentListType			A list of enrollments.	
enrollment	OR		Enrollment information for the student.	xEnrollmentType

Table A.698-1: xEnrollmentListType

A.699 xEnrollmentType

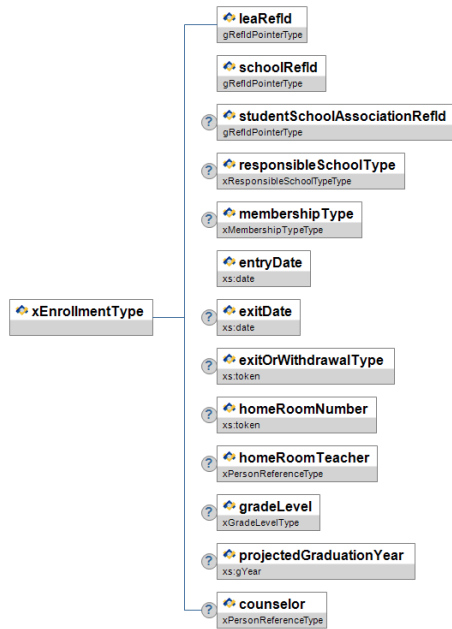


Figure A.699-1: xEnrollmentType

Element/@ Attribute	Char	CEDS Id/URL	Description	Type
xEnrollmentType				
leaRefId	M		RefId of the LEA	gRefIdPointerType
schoolRefId	M		RefId of the school.	gRefIdPointerType
studentSchoolAssociationRefId	O		RefId of the SIF Student-School Association object.	gRefIdPointerType
responsibleSchoolType	O	000595 https://ceds.ed.gov/element/000595	The type of services/instruction the school is responsible for providing to the student.	xResponsibleSchoolType
membershipType	O		The student's type of membership in the system.	xMembershipType
entryDate	M	000097 https://ceds.ed.gov/element/000097	The month, day, and year on which a person enters and begins to receive instructional services in a school, institution, program, or class-section during a given session.	xs:date
exitDate	O	000107 https://ceds.ed.gov/element/000107	The year, month and day on which the student officially withdrew or graduated, i.e. the date on which the student's enrollment ended.	xs:date
exitOrWithdrawalType	O	000110 https://ceds.ed.gov/element/000110	The circumstances under which the student exited from membership in an educational institution.	xs:token
homeRoomNumber	O		Home Room number	xs:token
homeRoomTeacher	O			xPersonReferenceType
gradeLevel	O		The current grade or academic level of the student within a school.	xGradeLevelType
projectedGraduationYear	O	000226 https://ceds.ed.gov/element/000226	The year and month the student is projected to graduate.	xs:gYear
counselor	O		RefId of the counselor.	xPersonReferenceType

Table A.699-1: xEnrollmentType

A.700 xIepType

This is the root entity of SIF objects. It is the highest level object in the SIF Conceptual Model for Education.

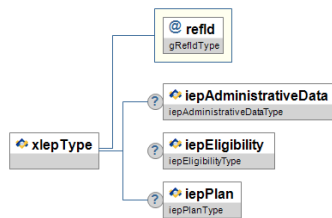


Figure A.700-1: IepType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
slepType			This is the root entity of SIF objects. It is the highest level object in the SIF Conceptual Model for Education.	
sfid	M			sfidType
slepAdministrativeData	O			slepAdministrativeDataTypes
slepEligibility	O			slepEligibilityTypes
slepPlan	O			slepPlanTypes

Table A.700-1: slepType

A.701 xLanguageCodeType

The code for the specific language or dialect that a person uses to communicate.

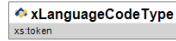


Figure A.701-1: xLanguageCodeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xLanguageCodeType	O	000317 https://ceds.ed.gov/element/000317	The code for the specific language or dialect that a person uses to communicate.	xs:token

Table A.701-1: xLanguageCodeType

A.702 xLanguageListType

A list of languages.

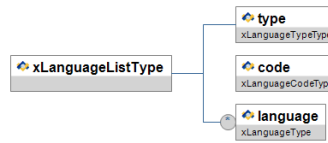


Figure A.702-1: xLanguageListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xLanguageListType			A list of languages.	Extension of xLanguageType
type	O	000316 https://ceds.ed.gov/element/000316	An indication of the function and context in which a person uses a language to communicate.	xLanguageType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xLanguageType			xLanguageType is the base type for the following data types: <ul style="list-style-type: none">xLanguageListType	
type	O	000316 https://ceds.ed.gov/element/000316	An indication of the function and context in which a person uses a language to communicate.	xLanguageTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
code	O	000317 https://ceds.ed.gov/element/000317	The code for the specific language or dialect that a person uses to communicate.	xLanguageCodeType values: aar abk ace ach ada ady afa afh afr ain aka akk alb ale alg alt amh ang anp apa arc arg arm arn arp art arv asm ast atb aus ave awa ayw aym aze bad bai baj bal bam ban bas bat bau bev bho bhv bjk bli bla blb bod bos bra brh brk bra bug buj bur byn cad cal cat cat ceb cel cel cha chb che chg chl chm chn cho chp chr chu chv chy cmc cop cor cos cop cpe cpr cpp cre crh crp csb csa cse dak dan dar day del den dgr din div doi dra dsb dsj dum dut dvv dzo efi egy ela eli eng enm epo est ewe ewo fan fao fat faj fil fin fiu fon fra frm fro frr frs fry ful fur gaa gay gem gen ger gez gil gis glg glt gmh goh gon gor got grb grc grg grn grw guj gur hai hak hau hav hbo her hil him hin hit hmo hnu hrv hsb hun hup iba ibo ido iio iit ijo iku ile ilo ina inc ind ine

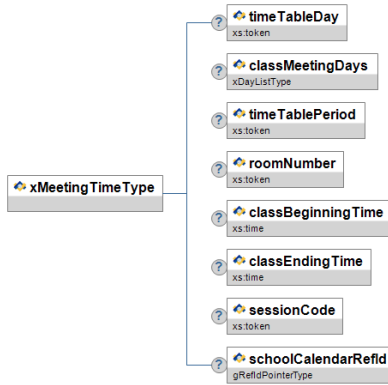


Figure A.706-1: xMeetingTimeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xMeetingTimeType				
timeTableDay	O	000523 https://ceds.ed.gov/element/000523	The unique identifier for the locally defined rotation cycle date code when the class meets (e.g., in a two day schedule, valid values could be "A" and "B", or "1" and "2").	xs:token
classMeetingDays	O	000521 https://ceds.ed.gov/element/000521	The day(s) of the week (e.g., Monday, Wednesday) that the class meets or an indication that a class meets "out-of-school" or "self-paced".	xDayListType
timeTablePeriod	O	000522 https://ceds.ed.gov/element/000522	An indication of the portion of a typical daily session in which students receive instruction in a specified subject (e.g., morning, sixth period, block period, or AB schedules).	xs:token
roomNumber	O	000364 https://ceds.ed.gov/element/000364	A unique number or alphanumeric code assigned to a room by a school, school system, state, or other agency or entity.	xs:token
classBeginningTime	O	000519 https://ceds.ed.gov/element/000519	An indication of the time of day the class begins.	xs:time
classEndingTime	O	000520 https://ceds.ed.gov/element/000520	An indication of the time of day the class ends.	xs:time
sessionCode	O	000252 https://ceds.ed.gov/element/000252	A local code given to the session, usually for a session that represents a term within the school year such as a marking term.	xs:token
schoolCalendarRefId	O		The RefId of the school calendar.	gRefIdPointerType

Table A.706-1: xMeetingTimeType

A.707 XMLDataType

Contains an arbitrary XML element, encoded in UTF-8.



Figure A.707-1: XMLDataType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
XMLDataType	C		Contains an arbitrary XML element, encoded in UTF-8.	<xs:any processContents="lax" />
Description	O		Contains an optional description of the content or a processing hint with regard to its structure (e.g. named standard, file layout or XSD). Contents may be mandated in instances of this type, or types that follow the AbstractContentPackageType pattern.	xs:token

Table A.707-1: XMLDataType

A.708 xOrganizationAddressType

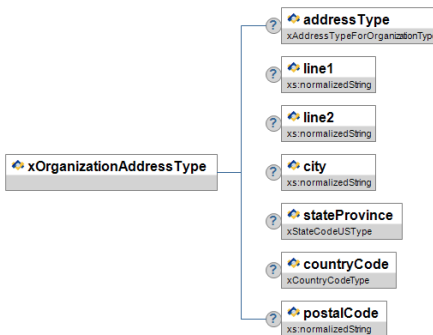


Figure A.708-1: xOrganizationAddressType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOrganizationAddressType				
addressType	O	001066 https://ceds.ed.gov/element/001066	The type of address listed for an organization. Generally the mailing address.	xAddressTypeForOrganizationType
line1	O	000269 https://ceds.ed.gov/element/000269	The first line of the address.	xNormalizedString
line2	O	000019 https://ceds.ed.gov/element/000019	The second line of the address.	xNormalizedString
city	O	000040 https://ceds.ed.gov/element/000040	The name of the city in which an address is located.	xNormalizedString
stateProvince	O	000267 https://ceds.ed.gov/element/000267	The abbreviation for the state, province or outlying area in which an address is located.	xStateCode@Type
countryCode	O	000050 https://ceds.ed.gov/element/000050	The unique two character International Organization for Standardization (ISO) code for the country in which an address is located.	xCountryCodeType
postalCode	O	000214 https://ceds.ed.gov/element/000214	A number that identifies each postal delivery area in the locale used as a portion of an address.	xNormalizedString

Table A.708-1: xOrganizationAddressType

A.709 xOrganizationIdentificationSystemType

A coding scheme that is used for identification and record-keeping purposes by schools, social services, or other agencies to refer to an organization.

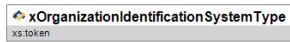


Figure A.709-1: xOrganizationIdentificationSystemType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOrganizationIdentificationSystemType				
xOrganizationIdentificationSystemType	O	000827 https://ceds.ed.gov/element/000827	A coding scheme that is used for identification and record-keeping purposes by schools, social services, or other agencies to refer to an organization.	xs:token

Table A.709-1: xOrganizationIdentificationSystemType

A.710 xOrganizationIdType

A unique number or alphanumeric code assigned to an organization by a school, school system, a state, or other agency or entity.

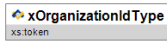


Figure A.710-1: xOrganizationIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOrganizationIdType				
xOrganizationIdType	O	000826 https://ceds.ed.gov/element/000826	A unique number or alphanumeric code assigned to an organization by a school, school system, a state, or other agency or entity.	xs:token

Table A.710-1: xOrganizationIdType

A.711 xOrganizationType

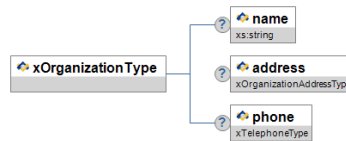


Figure A.711-1: xOrganizationType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOrganizationType				
xOrganizationType				
name	O			xs:string
address	O			xOrganizationAddressType
phone	O			xTelephoneType

Table A.711-1: xOrganizationType

A.712 xOtherCourseIdListType

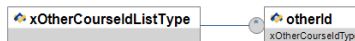


Figure A.712-1: xOtherCourseIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOtherCourseIdListType				
otherId	OR			xOtherCourseIdType

Table A.712-1: xOtherCourseIdListType

A.713 xOtherCourseIdType

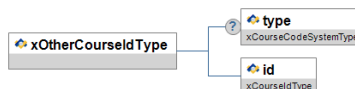


Figure A.713-1: xOtherCourseIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOtherCourseIdType				
type	O	000056 https://ceds.ed.gov/element/000056	A system that is used to identify the organization of subject matter and related learning experiences provided for the instruction of students.	xCourseCodeSystemType
id	M	000055 https://ceds.ed.gov/element/000055	The actual code that identifies the organization of subject matter and related learning experiences provided for the instruction of students.	xCourseIdType

Table A.713-1: xOtherCourseIdType

A.714 xOtherOrganizationIdListType

A list of other organization Ids.



Figure A.714-1: xOtherOrganizationIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOtherOrganizationIdListType			A list of other organization Ids.	
otherid	OR	000826 https://ceds.ed.gov/element/000826	A unique number or alphanumeric code assigned to an organization by a school, school system, a state, or other agency or entity.	xOtherOrganizationIdType

Table A.714-1: xOtherOrganizationIdListType

A.715 xOtherOrganizationIdType

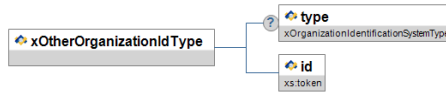


Figure A.715-1: xOtherOrganizationIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOtherOrganizationIdType				
type	O	000827 https://ceds.ed.gov/element/000827	A coding scheme that is used for identification and record-keeping purposes by schools, social services, or other agencies to refer to an organization.	xOrganizationIdentificationSystemType Values: School ACT LEA SEA HSES Federal ESSE OtherFederal Other SIN Vendor
id	M	000826 https://ceds.ed.gov/element/000826	A unique number or alphanumeric code assigned to an organization by a school, school system, a state, or other agency or entity.	xs:token

Table A.715-1: xOtherOrganizationIdType

A.716 xOtherPersonAddressListType

A List of other addresses for the person.

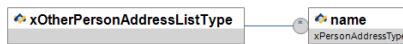


Figure A.716-1: xOtherPersonAddressListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOtherPersonAddressListType			A List of other addresses for the person.	
name	OR	000010 https://ceds.ed.gov/element/000010	The types of previous, alternate or other address for a person. Generally another residence or mailing address.	xPersonAddressType

Table A.716-1: xOtherPersonAddressListType

A.717 xOtherPersonIdListType

A list of other Ids for the person.

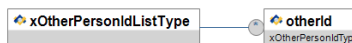


Figure A.717-1: xOtherPersonIdListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOtherPersonIdListType			A list of other Ids for the person.	
otherid	OR		An other Id for the person.	xOtherPersonIdType

Table A.717-1: xOtherPersonIdListType

A.718 xOtherPersonIdType

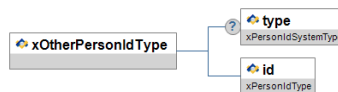


Figure A.718-1: xOtherPersonIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOtherPersonIdType				
type	O	001075 https://ceds.ed.gov/element/001075	A coding scheme that is used for identification and record-keeping purposes by schools, social services, or other agencies to refer to a student.	xPersonIdSystemType
id	M	001071 https://ceds.ed.gov/element/001071	A unique number or alphanumeric code assigned to a student by a school, school system, a state, or other agency or entity.	xPersonIdType

Table A.718-1: xOtherPersonIdType

A.719 xOtherPersonNameListType

A List of other names for the person.



Figure A.719-1: xOtherPersonNameListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xOtherPersonNameListType			A List of other names for the person.	
name	OR	000634 https://ceds.ed.gov/element/000634	The types of previous, alternate or other names for a person. Generally the "LegalName" for the primary name.	xPersonNameType

Table A.719-1: xOtherPersonNameListType

A.720 xPersonAddressType

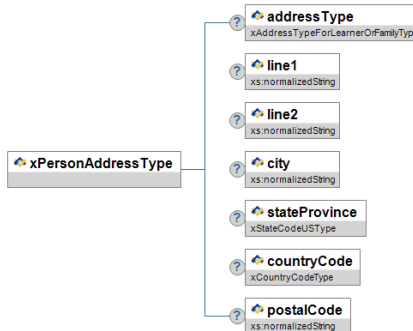


Figure A.720-1: xPersonAddressType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xPersonAddressType				
addressType	O	000010 https://ceds.ed.gov/element/000010	The type of address listed for a learner or a parent, guardian, family member or related person.	xAddressTypeForLearnerOrFamilyType
line1	O	000269 https://ceds.ed.gov/element/000269	The first line of the address.	xs:normalizedString
line2	O	000019 https://ceds.ed.gov/element/000019	The second line of the address.	xs:normalizedString
city	O	00040 https://ceds.ed.gov/element/00040	The name of the city in which an address is located.	xs:normalizedString
stateProvince	O	000267 https://ceds.ed.gov/element/000267	The abbreviation for the state, province or outlying area in which an address is located.	xStateCodeUType
countryCode	O	000050 https://ceds.ed.gov/element/000050	The unique two character International Organization for Standardization (ISO) code for the country in which an address is located.	xCountryCodeType
postalCode	O	000214 https://ceds.ed.gov/element/000214	A number that identifies each postal delivery area in the locale used as a portion of an address.	xs:normalizedString

Table A.720-1: xPersonAddressType

A.721 xPersonIdType

A unique number or alphanumeric code assigned to a person by a school, school system, a state, or other agency or entity.



Figure A.721-1: xPersonIdType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xPersonIdType	O	001572 https://ceds.ed.gov/element/001572	A unique number or alphanumeric code assigned to a person by a school, school system, a state, or other agency or entity.	xs:token

Table A.721-1: xPersonIdType

A.722 xPersonNameType

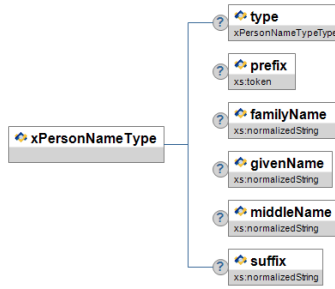


Figure A.722-1: xPersonNameType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xPersonNameType				
type	O	000634 https://ceds.ed.gov/element/000634	The types of previous, alternate or other names for a person. Generally the "LegalName" for the primary name.	xPersonNameTypeType
prefix	O	000212 https://ceds.ed.gov/element/000212	An appellation, if any, used to denote rank, placement, or status (e.g., Mr., Ms., Reverend, Sister, Dr., Colonel).	xs.token
familyName	O	000172 https://ceds.ed.gov/element/000172	The full legal last name borne in common by members of a family.	xs.normalizedString
givenName	O	000115 https://ceds.ed.gov/element/000115	The full legal first name given to a person at birth, baptism, or through legal change.	xs.normalizedString
middleName	O	000184 https://ceds.ed.gov/element/000184	A full legal middle name given to a person at birth, baptism, or through legal change.	xs.normalizedString
suffix	O	000121 https://ceds.ed.gov/element/000121	An appendage, if any, used to denote a person's generation in his family (e.g., Jr., Sr., III).	xs.normalizedString

Table A.722-1: xPersonNameType

A.723 xPersonReferenceType

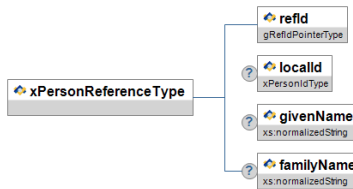


Figure A.723-1: xPersonReferenceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xPersonReferenceType				
refId	M		A SIF RefId.	gRefIdPointerType
localId	O			xPersonIdType
givenName	O	000115 https://ceds.ed.gov/element/000115	The full legal first name given to a person at birth, baptism, or through legal change.	xs.normalizedString
familyName	O	000172 https://ceds.ed.gov/element/000172	The full legal last name borne in common by members of a family.	xs.normalizedString

Table A.723-1: xPersonReferenceType

A.724 xRaceListType



Figure A.724-1: xRaceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xRaceListType				
race	OR		Indicates the racial origins of a person.	xRaceType

Table A.724-1: xRaceListType

A.725 xRaceType

Indicates the racial origins of a person.



Figure A.725-1: xRaceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xRaceType				
race	M		Indicates the racial origins of a person. The possible values are: AmericanIndianOrAlaskaNative, Asian, BlackOrAfricanAmerican, NativeHawaiianOrOtherPacificIslander, White, DemographicRaceTwoOrMoreRaces.	xRaceTypeType

Table A.725-1: xSchoolYearType

A.726 xSchoolYearType

The year for a reported school session.

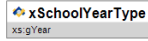


Figure A.726-1: xSchoolYearType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xSchoolYearType	O	000243 https://ceds.ed.gov/element/000243	The year for a reported school session.	xs:gYear

Table A.726-1: xSchoolYearType

A.727 xSessionListType

A list of sessions.

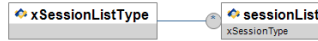


Figure A.727-1: xSessionListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xSessionListType			A list of sessions.	
sessionList	OR			xSessionType

Table A.727-1: xSessionListType

A.728 xSessionType

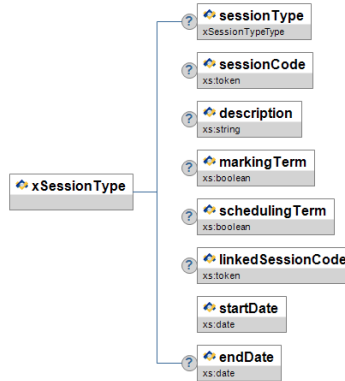


Figure A.728-1: xSessionType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xSessionType				
sessionType	O	000254 https://ceds.ed.gov/element/000254	A prescribed span of time when an education institution is open, instruction is provided, and students are under the direction and guidance of teachers and/or education institution administration. A session may be interrupted by one or more vacations.	xSessionTypeType
sessionCode	O	001270 https://ceds.ed.gov/element/001270	A local code given to the session, usually for a session that represents a term within the school year such as a marking term.	xs:token
description	O	001271 https://ceds.ed.gov/element/001271	A short description of the Session.	xs:string
markingTerm	O	001272 https://ceds.ed.gov/element/001272	Indicates that the session is a marking term.	xs:boolean
schedulingTerm	O	001273 https://ceds.ed.gov/element/001273	Indicates that the session is a scheduling term.	xs:boolean
linkedSessionCode	O		Enables sessions to be linked (e.g. link a marking term to a scheduling term)	xs:token
startDate	M	000251 https://ceds.ed.gov/element/000251	The year, month and day on which a session begins.	xs:date
endDate	O	000253 https://ceds.ed.gov/element/000253	The year, month and day on which a session ends.	xs:date

Table A.728-1: xSessionType

A.729 xStaffPersonAssignmentListType

A list of staff person assignments.



Figure A.729-1: xStaffPersonAssignmentListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xStaffPersonAssignmentListType			A list of staff person assignments.	
staffPersonAssignment	OR		The location and function to which a staff person is assigned.	sStaffPersonAssignmentType

Table A.729-1: xStaffPersonAssignmentListType

A.730 xStaffPersonAssignmentType

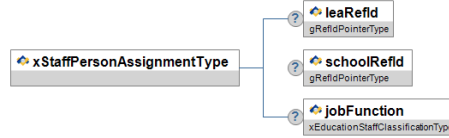


Figure A.730-1: xStaffPersonAssignmentType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xStaffPersonAssignmentType				
leaRefId	O		The RefId for the LEA Object.	gRefIdPointerType
schoolRefId	O		The RefId of the school object.	gRefIdPointerType
jobFunction	O	000087 https://ceds.ed.gov/element/000087	The titles of employment, official status, or rank of education staff.	xEducationStaffClassificationType

Table A.730-1: xStaffPersonAssignmentType

A.731 xStaffReferenceListType

A list of staff references.

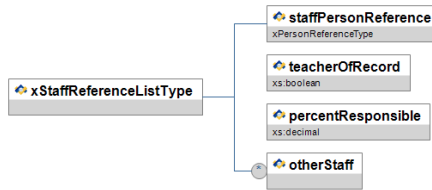


Figure A.731-1: xStaffReferenceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xStaffReferenceListType			A list of staff references.	Extension of sStaffReferenceType
staffPersonReference	O		A collection of information about a staff person.	xPersonReferenceType
teacherOfRecord	O	000647 https://ceds.ed.gov/element/000647	Staff member who has a Teacher of Record responsibility for a Class Section based upon the state's definition of Teacher of Record.	xs:boolean
percentResponsible	O	000649 https://ceds.ed.gov/element/000649	A percentage used to weight the educator's assigned responsibility for student learning in a Class Section, particularly when more than one educator is assigned to the class section.	xs:decimal
otherStaff	OR			

Table A.731-1: xStaffReferenceListType

A.732 xStaffReferenceType

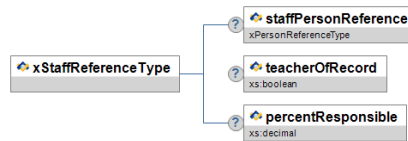


Figure A.732-1: xStaffReferenceType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xStaffReferenceType			xStaffReferenceType is the base type for the following data types: <ul style="list-style-type: none"> xStaffReferenceListType 	
staffPersonReference	O		A collection of information about a staff person.	xPersonReferenceType
teacherOfRecord	O	000647 https://ceds.ed.gov/element/000647	Staff member who has a Teacher of Record responsibility for a Class Section based upon the state's definition of Teacher of Record.	xs:boolean
percentResponsible	O	000649 https://ceds.ed.gov/element/000649	A percentage used to weight the educator's assigned responsibility for student learning in a Class Section, particularly when more than one educator is assigned to the class section.	xs:decimal

Table A.732-1: xStaffReferenceType

A.733 xStudentContactListType

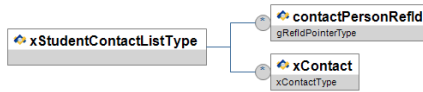


Figure A.733-1: xStudentContactListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xStudentContactListType				
contactPersonRefId	OR		The RefId of the contact object.	gRefIdPointerType
xContact	OR		A person associated with a student.	xContactType

Table A.733-1: xStudentContactListType

A.734 xStudentReferenceListType

A list of student references.



Figure A.734-1: xStudentReferenceListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xStudentReferenceListType			A list of student references.	
studentReference	OR		A collection of person information that identifies a unique student.	xPersonReferenceType

Table A.734-1: xStudentReferenceListType

A.735 xSubjectType

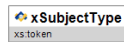


Figure A.735-1: xSubjectType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xSubjectType	O			xs:token

Table A.735-1: xSubjectType

A.736 xTelephoneListType

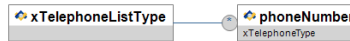


Figure A.736-1: xTelephoneListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xTelephoneListType				
phoneNumber	OR	000279 https://ceds.ed.gov/element/000279	The telephone number including the area code, and extension, if applicable.	xTelephoneType

Table A.736-1: xTelephoneListType

A.737 xTelephoneType

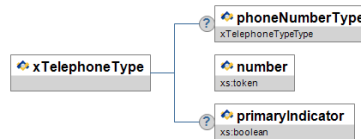


Figure A.737-1: xTelephoneType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xTelephoneType				
phoneNumberType	O	000280 https://ceds.ed.gov/element/000280	The type of communication number listed for a person.	xTelephoneTypeType values: Home Work Mobile Fax Other Text
number	M	000279 https://ceds.ed.gov/element/000279	The telephone number including the area code, and extension, if applicable.	xs:token
primaryIndicator	O	000219 https://ceds.ed.gov/element/000219	An indication that the telephone number should be used as the principal number for a person or organization.	xs:boolean

Table A.737-1: xTelephoneType

A.738 xTelephoneTypeType

The telephone number including the area code, and extension, if applicable.

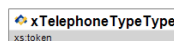


Figure A.738-1: xTelephoneTypeType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xTelephoneTypeType	O	000279 https://ceds.ed.gov/element/000279	The telephone number including the area code, and extension, if applicable.	xs:string

Table A.738-1: xTelephoneTypeType

A.739 xTransferIepType

This is the root entity of SIF objects. It is the highest level object in the SIF Conceptual Model for Education.

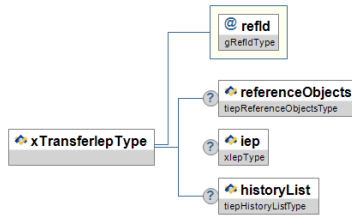


Figure A.739-1: xTransferIepType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xTransferIepType			This is the root entity of SIF objects. It is the highest level object in the SIF Conceptual Model for Education.	
@ refId	M			gRefIdType
referenceObjects	O			iepReferenceObjectType
iep	O			xIepType
historyList	O			iepHistoryListType

Table A.739-1: xTransferIepType

A.740 xYearGroupListType



Figure A.740-1: xYearGroupListType

Element/@Attribute	Char	CEDS Id/URL	Description	Type
xYearGroupListType				
gradeLevel	OR			xGradeLevelType

Table A.740-1: xYearGroupListType

Appendix B: Code Sets

Select shared and named code sets defined in SIF are included here for reference.

LearningStandardItem

Course Code System

Intermediate	The related Course Code is based on the intermediate agency defined course code system.
LEA	The related Course Code is based on the LEA defined course code system.
NCES	The related Course Code is based on the NCES Pilot Standard National Course Classification System for Secondary Education Codes.
Other	The related Course Code is based on a course code system not yet categorized within CEDS.
SCED	The related Course Code is based on the School Codes for the Exchange of Data (SCED) course code system.
School	The related Course Code is based on the school's course code system.
State	The related Course Code is based on the State course code system.
University	The related Course Code is based on the University course code system.

Organization Identification System

ACT	The Organization Identifier is from the College Board/ACT program code set of PK-grade 12 institutions.
DONS	The Organization Identifier is the organization's Dun and Bradstreet number.
FEDIN	The Organization Identifier is the organization's Federal identification number.
LEA	The Organization Identifier is a Local Education Agency assigned number.
NCES	The Organization Identifier is a National Center for Education Statistics assigned number.
Other	The Organization Identifier is from an identification system not yet defined in CEDS.
OtherFederal	The Organization Identifier is an other federally assigned number.
School	The Organization Identifier is a School-assigned number.
SBA	The Organization Identifier is a State Education Agency assigned number.

StudentPlacement

Other Services

#200	Specialized instruction
------	-------------------------

Other Types of Transportation

#101	Homeless transportation
#102	Choice transportation

Title I Services

#001	Reading / language program
#002	Mathematics program
#003	Science program
#004	Social studies program
#005	Economics program
#006	Computers program
#007	Vocational / career program
#008	Support guidance / advocacy program
#009	Study skills program
#010	After-school tutoring program
#011	Summer school program
#012	4-year-old program
#013	3-year-old program
#014	Extended kindergarten program (beyond half day)
#015	Health / dental / eye care service
#016	Extended instruction time program
#017	Supplemental outside provider instructional services

TestAccommodation

Scheduling

#182	Additional supervised test breaks for English Learners within testing day or following each section provided that test section is completed within a testing day
#183	Frequent breaks
#184	Multi-day administration
#185	Multiple test sessions
#186	Scheduled extended time
#187	Student-requested extended time
#188	Supervised test breaks
#189	Terminate session when student indicates they have completed all items they can
#190	Test administered at best time of day for student
#191	Untimed

Setting

#192	Carrel
#193	Facing examiner / proctor
#194	Front of room near examiner / proctor
#195	Hospital / home testing
#196	Individual
#197	Resource room
#198	Separate room
#199	Separate room with other English Learners under supervision of district employee
#200	Small group
#201	Small group in separate room
#202	Special ed classroom
#203	Special furniture
#204	Special lighting
#205	Specialized setting

Student Equipment and Technology

§135	Adjustable swivel arm
§136	Adjustable table height
§137	Audio cassette player / tape recorder
§138	Colored lenses
§139	Enlarged keyboard
§140	Enlarged monitor view / screen display
§141	Laptop / computer
§142	Magnification device
§143	Physical supports
§144	Technological aid
§145	Track ball
§146	Video cassette player

Test Administration

§105	Amplification equipment
§106	Audiotape or CD
§107	Braille Reader
§108	Clarify directions
§109	Computer administration
§110	Cueing
§111	Examiner familiar with / to student
§112	Examiner fluent in sign language
§113	Font enlarged beyond large print version requirements
§114	Foreign language interpreter
§115	Foreign language interpreter for instructions, ask questions
§116	Format
§117	Graph paper
§118	Manipulatives for math items
§119	Mask portion of answer booklet
§120	Mask portion of test booklet
§121	Paraphrasing
§122	Provide reading windows
§123	Provide written directions on separate sheet / transparency
§124	Repeat / reword / clarify directions
§125	Sign language / cued speech interpreter
§126	Simplified language
§127	Student reads aloud
§128	Tactile cues
§129	Test administrator reads test directions aloud
§130	Test administrator reads test questions aloud
§131	Unlisted accommodation or modification
§132	Video cassette
§133	Visual cues
§134	Word processor

Test Material

§101	Braille
§102	Foreign Language
§103	Large print booklet
§104	Manually coded English or American sign Language to present test questions

Test Response

§147	Access to translation glossaries / word lists (english-to-primary language). Shall not include definitions of formulas
§148	Arithmetic table (math or science)
§149	Assistive device that does interfere with independent work of the student
§150	Assistive device that does not interfere with independent work of the student
§151	Augmentative communication device
§152	Braille writer
§153	Braille writer, no thesaurus, spell-or grammar-checker
§154	Braille ruler
§155	Calculator (math or science)
§156	Cassette player / tape recorder
§157	Computer administration
§158	Crammer abacus
§159	Dictated oral response to proctor / transcriber
§160	Dictionary
§161	Essay responses dictated to a scribe orally, in manually coded English or in American Sign Language; and scribe provides spelling, grammar and language conventions
§162	Grammar checker
§163	Large face calculator
§164	Larger diameter pencil
§165	Mask portion of answer folder
§166	Math manipulatives (math or science)
§167	Modified specil grip pencil
§168	Qualified foreign language interpreter for LEP student
§169	Response dictated in American Sign Language / Manually coded English
§170	Separate additional continuation pages for writing tasks
§171	Sign responses to sign language interpreter
§172	Speech recognition system
§173	Spell-checker
§174	Student marked in test booklet
§175	Talking calculator
§176	Test administrator marked / wrote test at student's direction due to student handwriting issues
§177	Thesaurus
§178	Translation dictionary for LEP student
§179	Verbalized problem-solving
§180	Word processor / typewriter / computer with thesaurus / spell-checker / grammar-checker enabled on essay responses writing portion of test
§181	Word processor / typewriter / computer with thesaurus / spell-checker / grammar-checker turned off

X

Address Type For Learner Or Family

Billing	Billing address is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
FatherAddress	Father's address is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
GuardianAddress	Guardian's address is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
Mailing	Mailing is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
MotherAddress	Mother's address is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
OffCampus	Off-campus, temporary is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
OnCampus	On campus is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
PermanentAdmission	Permanent, at time of admission is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
PermanentStudent	Permanent, student is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
Physical	Physical is specified as the type of address listed for a learner or a parent, guardian, family member or related person.
Shipping	Shipping is specified as the type of address listed for a learner or a parent, guardian, family member or related person.

Address Type For Organization

Mailing	Mailing is specified as the type of address listed for an organization.
Physical	Physical is specified as the type of address listed for an organization.
Shipping	Shipping is specified as the type of address listed for an organization.

Country Code

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AX	Aland Islands
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BL	Saint Barthélemy
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia (Plurinational State of)
BQ	Bonaire, Sint Eustatius and Saba
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Island
CD	Congo, Democratic Republic of the
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte D'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cabo Verde
CW	Curaçao
CX	Christmas Island
CY	Cyprus
CZ	Czechia
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
GA	Gabon
GB	United Kingdom of Great Britain and Northern Ireland
GD	Grenada
GE	Georgia
GF	French Guiana
GG	Guernsey
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia

HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IM	Isle of Man
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JE	Jersey
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea (Democratic People's Republic of)
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
ME	Montenegro
MF	Saint Martin (French Part)
MG	Madagascar
MH	Marshall Islands
MK	Macedonia, The Former Yugoslav Republic of
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macao
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PS	Palestine, State of
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RS	Serbia
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan

SE	Sweden
SG	Singapore
SH	Saint Helena, Ascension and Tristan Da Cunha
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
SS	South Sudan
ST	Sao Tome and Principe
SV	El Salvador
SX	Sint Maarten (Dutch Part)
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TL	Timor-Leste
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TR	Turkey
TT	Trinidad and Tobago
TU	Tuvalu
TW	Taiwan
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States of America
UY	Uruguay
UZ	Uzbekistan
VA	Holy See
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Vietnam
VU	Vanuatu
WF	Wallis and Futuna
WS	Samoa
YE	Yemen
YT	Mayotte
ZA	South Africa
ZM	Zambia
ZW	Zimbabwe

Course Code System

Intermediate	The related Course Code is based on the intermediate agency defined course code system.
LEA	The related Course Code is based on the LEA defined course code system.
NCES	The related Course Code is based on the NCES Pilot Standard National Course Classification System for Secondary Education Codes.
Other	The related Course Code is based on a course code system not yet categorized within CEDS.
SCED	The related Course Code is based on the School Codes for the Exchange of Data (SCED) course code system.
School	The related Course Code is based on the school's course code system.
State	The related Course Code is based on the State course code system.
University	The related Course Code is based on the University course code system.

Day Of Week

Friday	Friday
Monday	Monday
Saturday	Saturday
Sunday	Sunday
Thursday	Thursday
Tuesday	Tuesday
Wednesday	Wednesday

Disability

AUT	Autism
DB	Deaf-blindness
DD	Developmental delay
ED	Emotional disturbance
HI	Hearing impairment
ID	Intellectual Disability
MD	Multiple disabilities
OHI	Other health impairment
OI	Orthopedic impairment
SLD	Specific learning disability
SLI	Speech or language impairment
TBI	Traumatic brain injury
VI	Visual impairment

Education Staff Classification

Administrative Support Staff	Staff members who provide direct support to administrators, business office support, data processing, or support of the teaching and administrative duties of the office of the principal or department chairpersons, including clerical staff and secretaries.
Administrators	Executive officers or managers of education agencies or institutions, including superintendents, deputies, and assistant superintendents; other persons with district-wide responsibilities; e.g., business managers, administrative assistants, and professional instructional support staff. In addition, staff members whose activities are concerned with directing and managing the operation of a particular school including principals, assistant principals, and other assistants; persons who supervise school operations, assign duties to staff members, supervise and maintain the records of the school, and coordinate school instructional activities with those of the education agency, including department chairpersons.
All Other Support Staff	Support staff not reported in instructional or student support. Other support staff includes employees such as data processing, health, plant and equipment maintenance, bus drivers, security, and food service workers.
Behavioral Specialists	Behavioral Specialists
Early Learning Assistant Teachers	Assistant Teachers of general level instruction and/or services delivery classified by state and local practice from birth to Kindergarten.
Early Learning Teachers	Teachers of general level instruction and/or service delivery classified by state and local practice from birth to Kindergarten.
Elementary Teachers	Teachers of general level instruction classified by state and local practice as elementary and composed of any span of grades not above grade 8.
Family Service Workers	Professional staff members assigned specific duties related to staff providing in-home and other services (including needs assessment, development of service plans, family advocacy, and coordination of service delivery) to families of children participating in early care and education programs.
Health Specialists	Professional staff members or supervisors assigned specific duties related to providing any Health services that are not specific to mental health.
Home Visitors	Professional staff members assigned specific duties related to visiting a child or pregnant woman's home for the purpose of assisting parents in fostering the growth and development of their child.
Instructional Coordinators	Staff supervising instructional programs including professional staff members or supervisors in an early learning program assigned specific duties related to instruction, or supervisors at a school district or sub-district level including curriculum coordinators or supervisors; in-service training staff; Title I supervisors; home economics supervisors; educational television staff; coordinators and supervisors of audiovisual services; and staff engaged in development of computer-assisted instruction.
Kindergarten Teachers	Teachers of a group or class that is part of a public school program and is taught during the year preceding the first grade.
Librarians/Media Specialists	A professional staff member or supervisor assigned specific duties and school time for professional library and media service activities. Activities include: selecting, acquiring, preparing, cataloging, and circulating books and other printed materials; planning the use of library and media services by students, teachers and other members of the instructional staff; and guiding individuals in their use of media services and library materials, (whether maintained separately or as part of an instructional materials center).
Library/Media Support Staff	Staff members who render other library or media services, such as preparing, caring for, and making available to members of the instructional staff the equipment, films, filmstrips, transparencies, tapes, TV programs, and similar materials (whether maintained separately as part of an instructional materials center).
Mental Health Specialists	Professional staff members or supervisors assigned specific duties related to Mental Health.
Nutrition Specialists	Professional staff members or supervisors assigned specific duties related to Nutrition.
Paraprofessionals	Paraprofessionals are employees who provide instructional support, including those who: (1) provide one-on-one tutoring if such tutoring is scheduled at a time when a student would not otherwise receive instruction from a teacher, (2) assist with classroom management, such as organizing instructional and other materials, (3) provide instructional assistance in a computer laboratory, (4) conduct parental involvement activities, (5) provide support in a library or media center, (6) act as a translator, or (7) provide instructional support services under the direct supervision of a teacher.
Part C Early Interventionists	Professional staff members employed to provide early intervention services to infants and toddlers with disabilities or at-risk of experiencing a substantial developmental delay as defined by Part C of the Individuals with Disabilities Education Act (IDEA): The Early Intervention Program for Infants and Toddlers with Disabilities.
Part C Service Coordinators	Professional staff members employed to coordinate early intervention services to infants and toddlers with disabilities or at-risk of experiencing a substantial developmental delay as defined by Part C of the Individuals with Disabilities Education Act (IDEA): The Early Intervention Program for Infants and Toddlers with Disabilities.
School Counselors	Professional staff members assigned specific duties and school time for any of the following activities: counseling with students and parents, consulting with other staff members on learning problems, evaluating student abilities, assisting students in making education and career choices, assisting students in personal and social development, providing referral assistance, and/or working with other staff members in planning and conducting guidance programs for students. School counselors may be reported by elementary and secondary level when that information is available.
Secondary Teachers	Teachers of a general level of instruction classified by state and local practice as secondary and composed of any span of grades beginning with the next grade following the elementary grades and ending with or below grade 12.
Social Workers	Social workers assist people by helping them cope with and solve issues in their everyday lives, such as family and personal problems and dealing with relationships.
Special Education Teachers	Special Education teachers include teachers employed to provide special education services to children with disabilities, including preschool teachers, itinerant/consulting teachers, and home/hospital teachers. This should include teachers of children with disabilities in separate schools and facilities.
Special Needs Specialists	Professional staff members or supervisors assigned specific duties related to special needs learners.
Student Support Services Staff	Professional and supervisory staff providing non-instructional services to students including attendance officers; staff providing health, psychology, speech pathology, audiology, or social services; and supervisors of the preceding staff and of health, transportation, and food service workers.
Ungraded Teachers	Teachers of classes or programs to which students are assigned without standard grade designation.

Email Type

Home	Home/personal is the type of electronic mail (e-mail) address listed for a person or organization.
Organizational	Organizational (school) address is the type of electronic mail (e-mail) address listed for a person or organization.
Other	Other is the type of electronic mail (e-mail) address listed for a person or organization.
Work	Work is the type of electronic mail (e-mail) address listed for a person or organization.

Employer

AgriculturalFissherySeasonal_1808	Agricultural Fishery Seasonal
Government_1803	Government
Military_1804	Military
MilitaryDepartmentOfDefense_1807	Military Department of Defense
Other_9999	Other
PrivateOrganization_1805	Private Organization
Self-employed_1806	Self-employed

Exit Or Withdrawal

1907	Student is in a different public school in the same local education agency
1908	Transferred to a public school in a different local education agency in the same state
1909	Transferred to a public school in a different state
1910	Transferred to a private, non-religiously-affiliated school in the same local education agency
1911	Transferred to a private, non-religiously-affiliated school in a different LEA in the same state
1912	Transferred to a private, non-religiously-affiliated school in a different state
1913	Transferred to a private, religiously-affiliated school in the same local education agency
1914	Transferred to a private, religiously-affiliated school in a different LEA in the same state
1915	Transferred to a private, religiously-affiliated school in a different state
1916	Transferred to a school outside of the country
1917	Transferred to an institution
1918	Transferred to home schooling
1919	Transferred to a charter school
1921	Graduated with regular, advanced, International Baccalaureate, or other type of diploma
1922	Completed school with other credentials
1923	Died or is permanently incapacitated
1924	Withdrawn due to illness
1925	Expelled or involuntarily withdrawn
1926	Reached maximum age for services
1927	Discontinued schooling
1928	Completed grade 12, but did not meet all graduation requirements
1930	Enrolled in a postsecondary early admission program, eligible to return
1931	Not enrolled, unknown status
3499	Student is in the same LEA, receiving education services, but is not assigned to a particular school
3502	Not enrolled, eligible to return
3503	Enrolled in a foreign exchange program, eligible to return
3504	Withdrawn from school, under the age for compulsory attendance; eligible to return
3505	Exited
3508	Student is in a charter school managed by the same local education agency
3509	Completed with a state-recognized equivalency certificate
9999	Other
73060	Officially withdrew and enrolled in ABE, adult secondary education, or adult ESL program
73061	Officially withdrew and enrolled in a workforce training program

Grade Level

01	First grade
02	Second grade
03	Third grade
04	Fourth grade
05	Fifth grade
06	Sixth grade
07	Seventh grade
08	Eighth grade
09	Ninth grade
10	Tenth grade
11	Eleventh grade
12	Twelfth grade
13	Grade 13
IT	Infant/toddler
KG	Kindergarten
Other	Other
PK	Prekindergarten
PR	Preschool
PS	
TK	Transitional Kindergarten
UG	

Language Type

Correspondence	The language specified by the related Language Code is the language the person uses for correspondence.
Dominant	The language specified by the related Language Code is the person's dominant language.
Home	The language specified by the related Language Code is the language the person uses at home.
Native	The language specified by the related Language Code is the person's native language.
Other	The function and context in which a person uses the language specified by the related Language Code is in a category not yet defined in CEDS.
OtherLanguageProficiency	The language specified by the related Language Code is the language the person's other language proficiency.

Membership Type

Concurrent	Concurrent
Home	Home
Summer	Summer

Person Id System

Alias	
CanadiansIN	The related Student Identifier uses the student's Canadian Social Insurance Number.
District	The related Student Identifier uses the student's district-assigned number.
DriversLicense	
Family	The related Student Identifier uses the student's family unit number.
Federal	The related Student Identifier uses the student's federal identification number.
Healthcare	
Institution	
Medicaid	
NationalMigrant	The related Student Identifier uses the student's national migrant number.
Other	
OtherFederal	
PIN	
ProfessionalCertificate	
School	The related Student Identifier uses the student's school-assigned number.
SelectiveService	
SSN	The related Student Identifier uses the student's Social Security Administration number.
State	The related Student Identifier uses the student's state-assigned number.
StateMigrant	The related Student Identifier uses the student's State migrant number.
USVisa	

Person Name Type

Alias	The value specified for Other Name is the person's Alias.
FullName	The value specified for Other Name is the person's Full Name.
LegalName	The value specified for Other Name is the person's Legal Name.
Nickname	The value specified for Other Name is the person's Nickname.
OtherName	The value specified for Other Name is the person's Other name.
PreferredFamilyName	The value specified for Other Name is the person's Preferred Family Name.
PreferredGivenName	The value specified for Other Name is the person's Preferred Given Name.
PreviousLegalName	The value specified for Other Name is the person's Previous legal name.

Person Relationship To Learner

Aunt	The person is the learner's Aunt.
Brother	The person is the learner's Brother.
BrotherInLaw	The person is the learner's Brother-in-law.
CourtAppointedGuardian	The person is the learner's Court Appointed Guardian.
Daughter	The person is the learner's Daughter.
DaughterInLaw	The person is the learner's Daughter-in-law.
Employer	The person is the learner's Employer.
Father	The person is the learner's Father.
FatherInLaw	The person is the father of the learner's spouse.
FathersCivilPartner	The person is a legal partner of the learner's father, established by a civil union other than marriage.
FathersSignificantOther	The person is the Significant Other of the learner's Father.
Fiance	The person is a man who is engaged to be married to the learner.
Fiancee	The person is a woman who is engaged to be married to the learner.
Friend	The person is the learner's Friend.
Grandfather	The person is the learner's Grandfather.
Grandmother	The person is the learner's Grandmother.
Husband	The person is the learner's Husband.
Mother	The person is the learner's Mother.
MothersCivilPartner	The person is a legal partner of the learner's mother, established by a civil union other than marriage.
MothersSignificantOther	The person is the Significant Other of the learner's Mother.
Nephew	The person is the learner's Nephew.
Niece	The person is the learner's Niece.
Other	The person is related to the learner in a way not represented by other standard options.
SignificantOther	The person is the Significant Other of the learner.
Sister	The person is the learner's Sister.
Son	The person is the learner's Son.
Uncle	The person is the learner's Uncle.
Unknown	The person's relationship to the learner is Unknown.
Ward	The person is the learner's Ward.
Wife	The person is the learner's Wife.

Race Type

AmericanIndianOrAlaskaNative
Asian
BlackOrAfricanAmerican
DemographicRaceTwoOrMoreRaces
NativeHawaiianOrOtherPacificIslander
White

Responsible School Type

Accountability	The role/relationship type assigned to an organization, institution, or agency responsible for student learning under Federal ESEA and State accountability plans. (e.g. for AYP reporting)
Attendance	The role/relationship assigned to an organization, institution, or agency operating the physical or virtual site in which delivery of educational services take place.
Funding	The role/relationship assigned to an organization, institution, or agency responsible for funding related to a student enrollment.
Graduation	The role/relationship assigned to an organization, institution, or agency responsible for issuing/awarding diplomas. (e.g. for graduation-rate reporting)
IEP	The role/relationship type assigned to an organization, institution, or agency responsible for the enrolled student's IEP, a written instructional plan for students with disabilities designated as special education students under the Individuals with Disabilities Education Act (IDEA-Part B) which includes: 1) a statement of present levels of educational performance of a child; 2) a statement of annual goals including short-term instructional objectives; 3) a statement of specific education and related services to be provided and the extent to which the child will be able to participate in regular educational programs; 4) a projected date for initiation and anticipated duration of services; and 5) appropriate objectives, criteria and evaluation procedures and schedules for determining, on at least an annual basis, whether instructional objectives are being achieved.
Transportation	The role/relationship type assigned to an organization, institution, or agency responsible for transporting the student to the physical location of the school or facility in which educational services are delivered.

Session Type

FullSchoolYear	A regular school term consisting of no major subdivision of time segments. It usually begins in the late summer or early fall and ends in late spring or early summer (e.g., elementary school).
Intersession	A short session which occurs between longer sessions.
LongSession	A session that is longer than a semester but shorter than a full year.
MiniTerm	A school term which is shorter than a regular session.
Other	The session type is in a category not yet defined in CEDS.
Quarter	One of four equal segments into which a school year is divided.
Quinmester	One of five equal segments into which a school year is divided.
Semester	One of two equal segments into which a school year is divided.
SummerTerm	A school term which takes place in the summer between two regular school terms.
Trimester	One of three equal segments into which a school year is divided.
TwelveMonth	An educational program that operates on a full twelve month cycle.

Sex

Female	Female
Male	Male

State Code US

AA	Armed Forces America
AE	Armed Forces Africa, Canada, Europe, and Mideast
AK	Alaska
AL	Alabama
AP	Armed Forces Pacific
AR	Arkansas
AS	American Samoa
AZ	Arizona
CA	California
CO	Colorado
CT	Connecticut
DC	District of Columbia
DE	Delaware
FL	Florida
FM	Federated States of Micronesia
GA	Georgia
GU	Guam
HI	Hawaii
IA	Iowa
ID	Idaho
IL	Illinois
IN	Indiana
KS	Kansas
KY	Kentucky
LA	Louisiana
MA	Massachusetts
MD	Maryland
ME	Maine
MI	Michigan
MH	Marshall Islands
MT	Montana
NC	North Carolina
ND	North Dakota
NE	Nebraska
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NV	Nevada
NY	New York
OH	Ohio
OK	Oklahoma
OR	Oregon
PA	Pennsylvania
PR	Puerto Rico
PW	Palau
RI	Rhode Island
SC	South Carolina
SD	South Dakota
TN	Tennessee
TX	Texas
UT	Utah
VA	Virginia
VI	Virgin Islands
VT	Vermont
WA	Washington
WI	Wisconsin
WV	West Virginia
WY	Wyoming

Telephone Number Type

Fax	Fax number is the type of communication number listed for a person.
Home	Home phone number is the type of communication number listed for a person.
Mobile	Mobile phone number is the type of communication number listed for a person.
Other	The type of communication number listed for a person is in a category not yet defined in CEDS.
Text	Text number is the type of communication number listed for a person.
Work	Work phone number is the type of communication number listed for a person.

Appendix C: Background/Supplementary Documentation (non-normative)

This appendix supplies background/supplementary documentation from working groups and task forces for interested readers, including but not limited to object plans, business/use cases, test plans, test results, background and best practice documentation. Last modified dates are included in parentheses.

 [DataModelErrata.pdf \(6/23/2019\)](#)

 [DataModelDelta.pdf \(5/21/2019\)](#)

 [DataModelTechnicalDetails.pdf \(5/21/2019\)](#)

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