

# ITD INTEGRATION COMPETENCY CENTRE

Existing and Deleted SIF Objects – Representation and Validation





### **DELETED OBJECTS - REPRESENTATION**

An XML without any embedded elements, e.g.
<TeachingGroup RefId="tg5" />

- Where are they used?
  - queries with changesSinceMarker (already part of SIF infrastructure specification)
  - 2. (data model v3.4.3 RC) long running paged queries while some objects were deleted inflight



# COLLECTION OF EXISTING & DELETED OBJECTS - REPRESENTATION

```
<TeachingGroups>
<TeachingGroup RefId="tg4">
...
</TeachingGroup>

<TeachingGroup RefId="tg5" />
<TeachingGroup RefId="tg6">
...
</TeachingGroup>
</TeachingGroup>
```



### SIF DATA MODEL SCHEMA

#### "Strict"

 Embedded elements/attributes declared as mandatory as required:

"Lax"

Every element/attribute is declared as optional:

http://specification.sifassociation.org/Implementation/AU/3.4.3/2/DataModel.html#PayloadValidation

## COLLECTION OF EXISTING & DELETED OBJECTS – SIF PROVIDER SIDE

- v3.4.3
  - Use "lax" schema to generate outbound XML
  - Use "strict" schema to parse inbound XML (non-SIF events)
  - Use "lax" schema to parse inbound XML (SIF events)
- Beyond v3.4.3
  - Explore xs:nillable=true such that the "strict" schema can also be used for both outbound and inbound XML



## COLLECTION OF EXISTING & DELETED OBJECTS – SIF CONSUMER SIDE

- Create invocation
  - Use "strict" to create XML to provider
- Update invocation
  - Use "strict" to create XML to provider
- Update using SIF events
  - Use "lax" to create XML to provider



### COLLECTION OF EXISTING & DELETED OBJECTS – SIF CONSUMER SIDE

- Get (deleted objects not expected)
  - Use "strict" to parse XML from provider
- Get (deleted objects expected)
  - No single schema to parse both existing and deleted objects in the same collection XML
  - -3.4.3: use "lax" schema to parse collection XML
    - All mandatory elements/attributes must be checked after XML parsing
  - Beyond 3.4.3: explore xs:nillable=true





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