

**The A4L International Technical Board (ITB) recommends to the Association Board of Directors that the SIF Implementation Infrastructure Specification 3.5 be advanced to Community Review.**

## V 3.5 Scope:

### 1. Asynchronous Providers

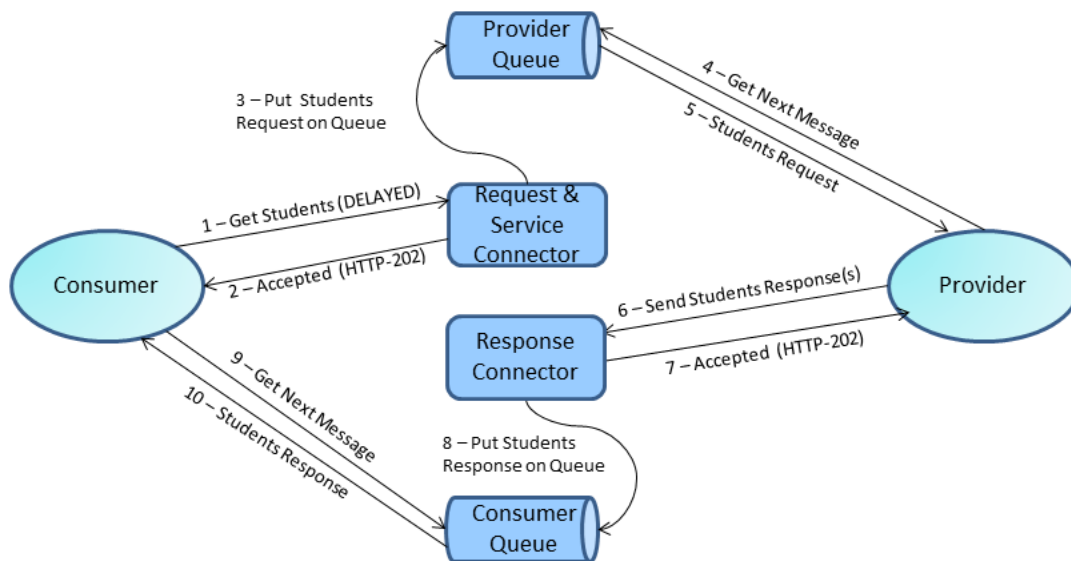
**API:** <http://specification.sifassociation.org/Implementation/Infrastructure/3.5/ServiceDocs/>

**Architecture:** <https://a4ldocumentation.atlassian.net/wiki/spaces/ARCHITECTU/overview>

**Data Model:** <http://specification.sifassociation.org/Implementation/Infrastructure/3.5/>

### Asynchronous Providers (modern Pull Mode)

Asynchronous Providers are able to participate in an integration as the source of truth for data *without* needing to become a server. This has two main benefits. First, Asynchronous Providers that need to delay processing of delayed requests for any reason can do so. This means that long running processes, exchanges that need meaningful feedback, and busy servers all have a better way to carry on smoothly. Second, many school and software systems alike reduce their security exposure through fewer endpoints. Asynchronous Providers creates a new and powerful tool to meet these requirements. The end result is many more people will have the ability to consider adopting SIF solutions without running afoul of their own requirements.



- Step 6 & 7 are repeated by the provider until all student responses are sent to broker (batch operation).
- Step 8 is repeated for each response sent by the provider.
- Step 9 & 10 are repeated by the consumer until there are no more messages on the queue.

Documented:

[https://a4ldocumentation.atlassian.net/wiki/spaces/ARCHITECTU/pages/56000581/IMMEDIATE+DELAYED+Request+Response#DELAYED-Consumer---DELAYED-Provider-\(since-SIF-3.5-Infrastructure\)](https://a4ldocumentation.atlassian.net/wiki/spaces/ARCHITECTU/pages/56000581/IMMEDIATE+DELAYED+Request+Response#DELAYED-Consumer---DELAYED-Provider-(since-SIF-3.5-Infrastructure))

Most Impacted:

<https://a4ldocumentation.atlassian.net/wiki/spaces/ARCHITECTU/pages/228392971/Provider+Service+Registry>