

Ed-Fi 3.x Student School Combination Entity Mapping

Overview

This document defines the mapping of Aeries data to the Ed-Fi data standard. This is an Aeries custom entity that behaves just like an Ed-Fi standard entity.



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Purpose

It's purpose is to make it easier for districts to upload Student entity and Student School Association entity data to the ODS. There are dependencies between them that allow Students to be uploaded initially, but when trying to upload them a second time an error is returned stating that an established relationship is missing. That's the Student School Association entity that is expected to exist in the ODS. Without that the student data is not accessible. So we handle the uploading of both at the same time to eliminate this confusion.

Status

Ready for v3.x Certification.

General Links

ED-FI Data Standard v3.2.0-c

<https://mappingedu.ed-fi.org/#!/data-standard/detail/7ec6133d-e7ba-ea11-80df-005056b36109/groups>

Ed-Fi Data Handbook v3.2.0-c

<https://schema.ed-fi.org/datahandbook-v320c>

Ed-Fi Operational Data Store API v3.4.0

<https://api.ed-fi.org/v3.4.0/docs/index.html>

Student Information Systems API v3 Certification - Test Scenarios

<https://techdocs.ed-fi.org/display/EDFICERT/Student+Information+Systems+API+v3+Certification+--+Test+Scenarios>

Getting Resources

We are actually going to get 3 resources for each Student School Combination resource - School, Student, and Student School Association

1. Get the Student School Associations
2. Loop through all the results
3. For each resource get the school Code and Unique Student Id
4. **Add the Student School Association resource to the results list**
5. Get the School resource by the School Code
6. **Add the School resource info to the results list**
7. Get the Student resource by the Student Id
8. **Add the Student resource info to the results list**
9. Repeat for Student School Association resource in the list.

Uploading Resources

We have special logic to only insert Student and Student School Association data to the database if everything is correct, so no data will get orphaned.

1. Get the **Student** data from the database that needs to be mapped and uploaded to the ODS
2. Get **Student Enrollment** data from the database
3. For each **Student** record
 - a. get a list of **Enrollment** records from the data
 - b. If enrollment records are found
 - i. Process the **Student** entity
If an error occurs it may be that the **Student School Association** does not exist. Keep track of this flag.
 - ii. For each enrollment record process the **Student School Association** entity
 - iii. Then try uploading the **Student** Entity try again.

