

Session 241-2

Student Account Integration with OneRoster, API & Apple School Manager

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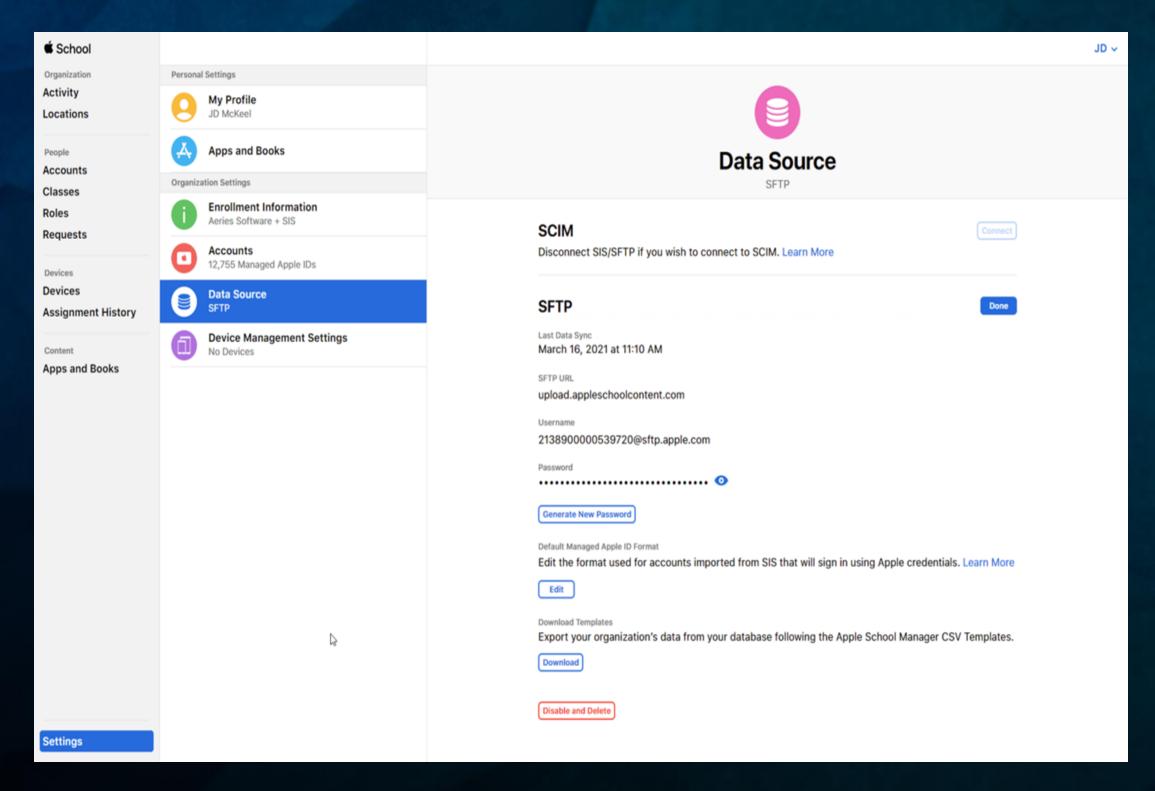
Apple School Manager







Apple School Manager





Aeries API

Usage

Can be used by 3rd-party vendors as well as internal development in your District, COE, etc.

Authentication

Each API consumer is given an authorization key or "certificate", which is a unique alphanumeric string

Authorization

Permissions can be set for each API consumer

Logging

Every API request is logged to the Aeries database



Aeries API Available Data

School Information

Ex: School Info, Terms, Calendar, Bell Schedule, Code Sets

Student Information

Ex: Demographics, Contacts, Programs, Authorizations, Test Scores, Discipline, Fees, and more

Grades

Ex: Report cards, Transcripts, Graduation Requirements, GPAs

Attendance & Enrollment

Ex: Student Attendance, Attendance History, Enrollment History

Staff Information

Ex: Staff Demographics, Job Assignments

Scheduling

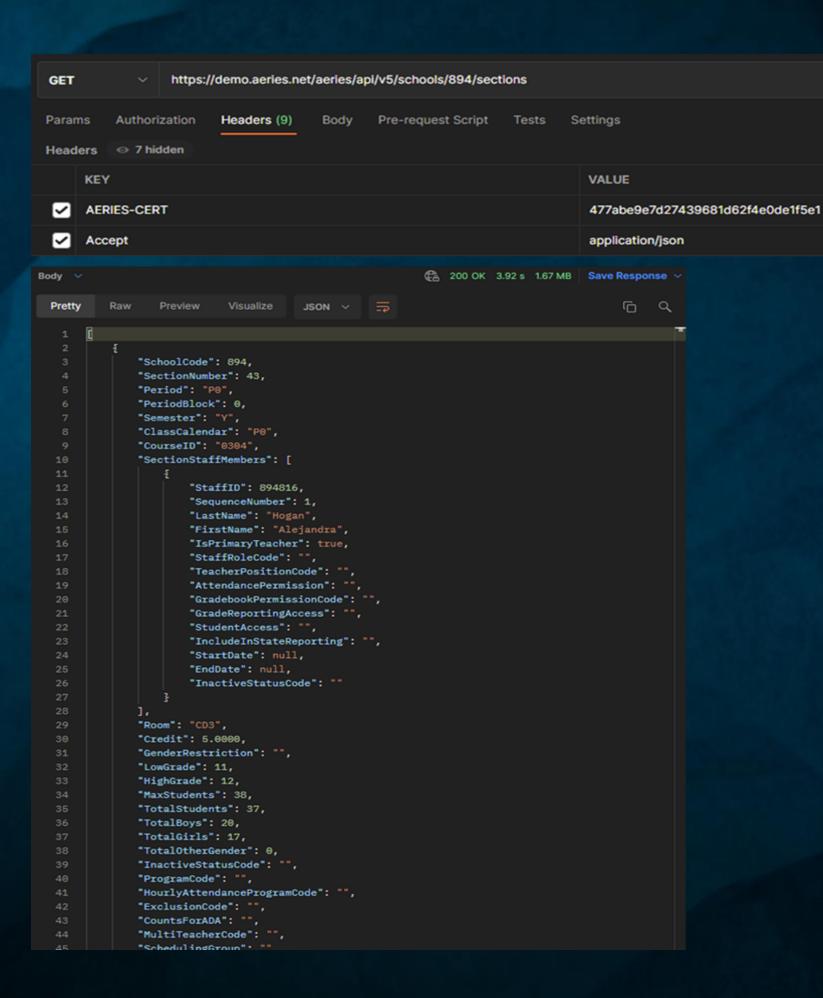
Ex: Courses, Flex Periods, Class Calendars, Sections, Student Class Schedule, Class Roster, Student Course Requests

Gradebook

Ex: Gradebook Info, Assignments, Scores



Sample Get Sections





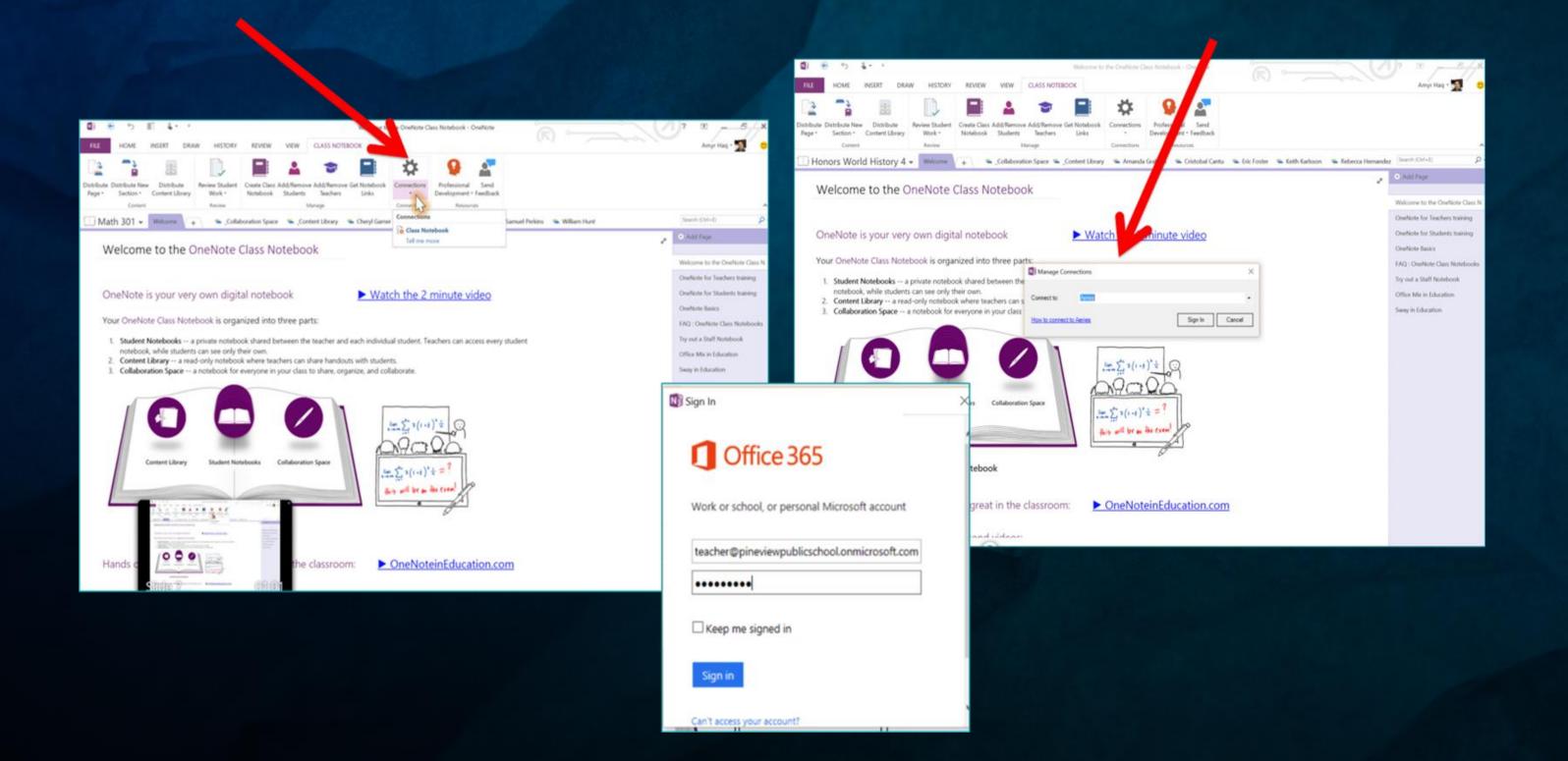
Sample - Create Assignment

```
https://demo.aeries.net/aeries/api/v5/gradebooks/4487750/assignments
POST
Params Auth Headers (12) Body Pre-req. Tests Settings
raw V JSON V
          "Description": "Test the Aeries API",
          "AssignmentCategoryCode": "A",
          "DateAssigned": "2022-03-10",
          "DateDue": "2022-03-24",
          "NumberCorrectPossible": 50,
          "PointsPossible": 50,
          "Comment": "Make sure the Gradebook end points work",
          "FormativeSummativeIndicator": "S",
          "RubricAssignment": false,
          "ExternalID":
 11
 12
          "CreateInLinkedGradebooksToo": true
 13 }
```

```
@ 201 Created 156 ms 1.14 KB
Body ~
 Pretty
               "AssignmentCategory": {
                   "GradebookNumber": 4487750,
                   "Code": "A",
                   "Description": "Vocab",
                   "PercentageOfGrade": 0.0,
                   "Color":
               "Standards": [],
               "NarrativeGradeSet": [],
  12
               "IsFinalAssignment": false,
               "GradebookNumber": 4487750,
               "AssignmentNumber": 105.
               "Description": "Test the Aeries API",
               "DateAssigned": "2022-03-10T00:00:00",
               "DateDue": "2022-03-24T00:00:00",
               "NumberCorrectPossible": 50.0,
               "PointsPossible": 58.0,
               "GradingCompleted": false,
               "Comment": "Make sure the Gradebook end points work",
               "DueTime": "0001-01-01T00:00:00",
               "AllowStudentDropBox": false,
               "VisibleToParents": false,
               "ScoresVisibleToParents": false,
               "FormativeSummativeIndicator": "S",
               "AeriesAnalyticsExamID": 0,
               "AeriesAnalyticsExamTestAdmin": 0,
               "RubricAssignment": false,
               "InputScoresByStandard": false,
               "NarrativeGradeSetID": 0,
               "UniqueID": "962a873d-2eff-4ef0-ae74-6bfe4b0a7ef3",
               "ExternalID":
```

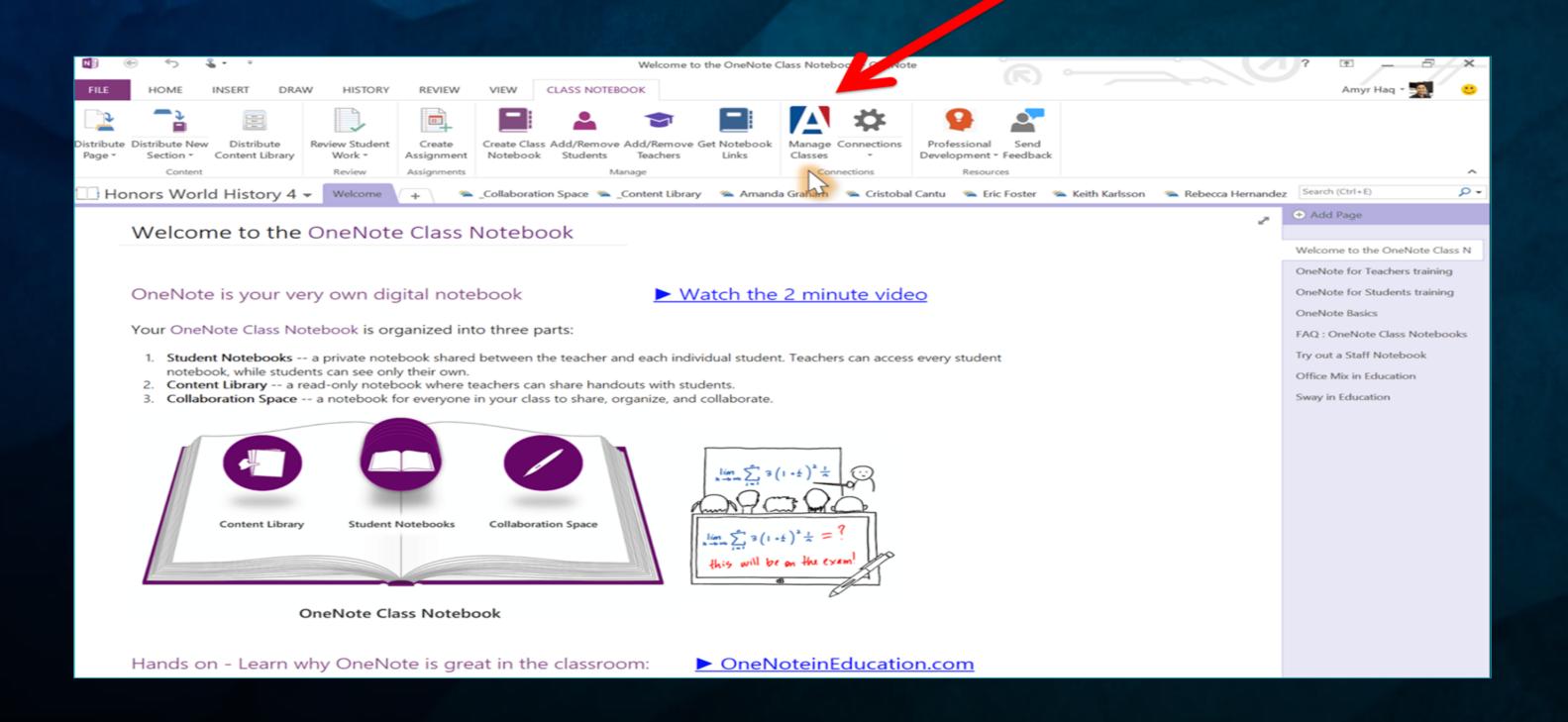


OneNote Class Notebook



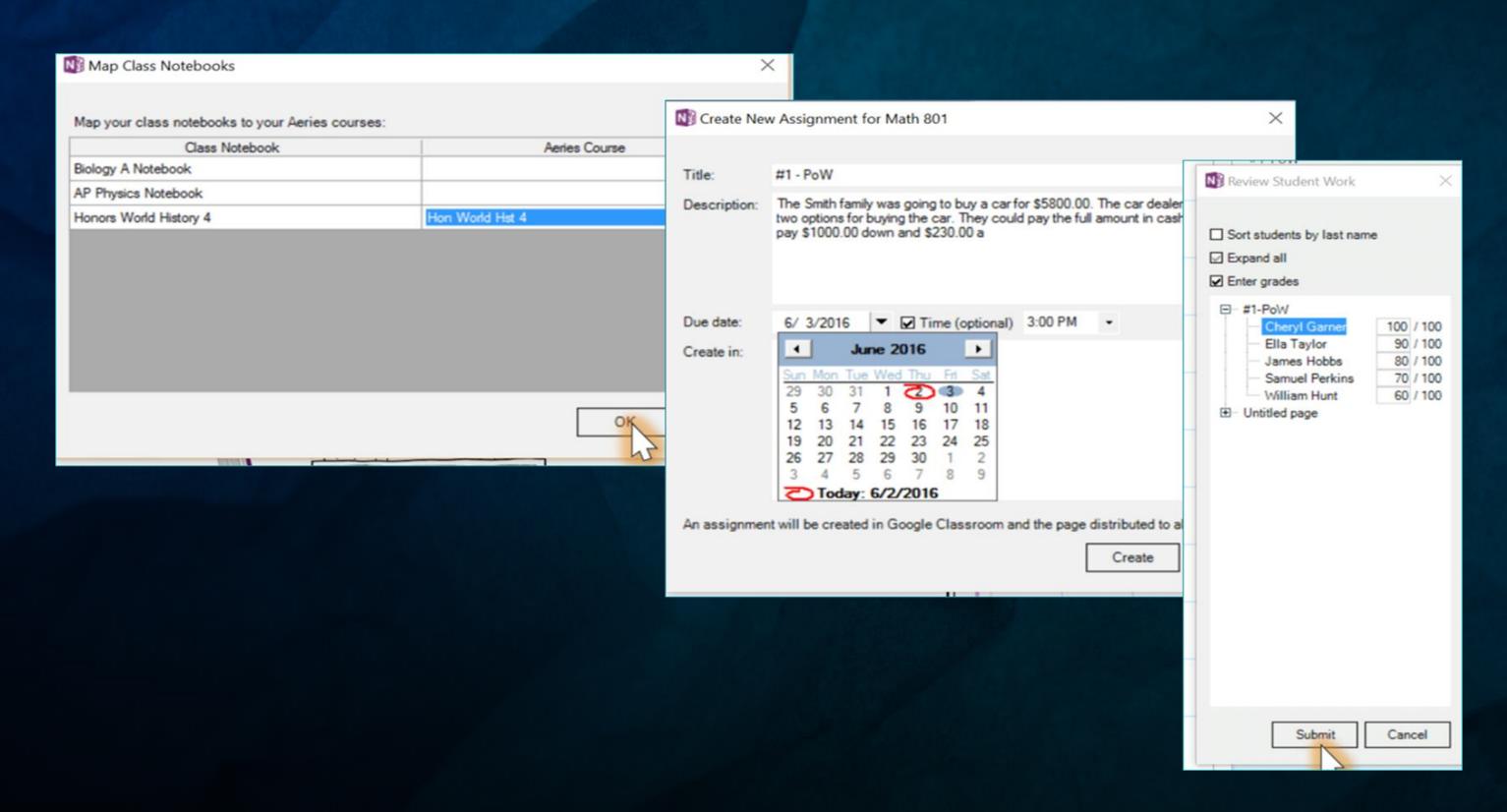


OneNote Class Notebook





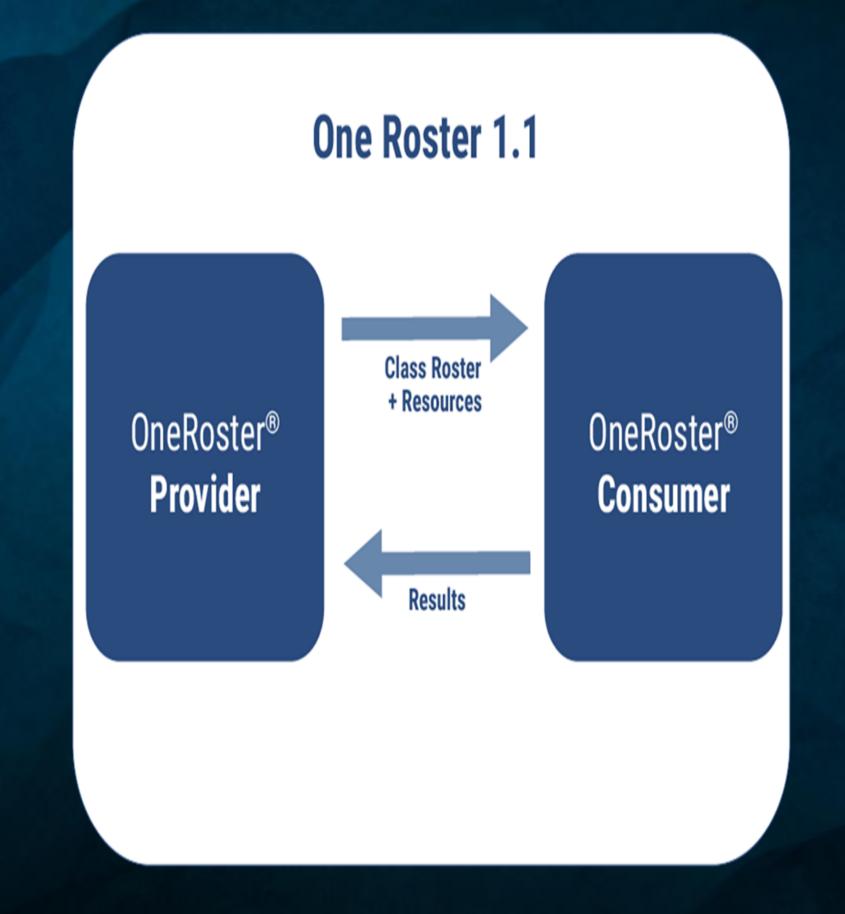
OneNote Class Notebook





OneRoster

- Roster data comes from Aeries and is retrieved by OneRoster consumers (usually LMS or some other 3rd-party application)
- Gradebook (aka "Results") data comes from the LMS and is pushed into Aeries Gradebook





Aeries & OneRoster

- Aeries is OneRoster 1.1 certified!
- https://site.imsglobal.org/certificati ons/aeries-software/aeries-sis

1EdTech Certifications

Aeries Software has 1 certifications for this product.





Aeries SIS v9 has completed conformance testing for the following 1EdTech Standards ...



Certified on 2023-07-28 • Registration Number: IMSM2ae2023W1

OneRoster 1.1 Details:

- CSV Rostering Export Bulk
- CSV Gradebook Export Bulk
- REST Data Provider Rostering Core
- REST Data Provider Rostering Optional
- REST Data Provider Gradebook Push Core
- REST Data Provider Gradebook Push Optional
- REST Data Provider Gradebook Pull Core
- REST Data Provider Gradebook Pull Optional

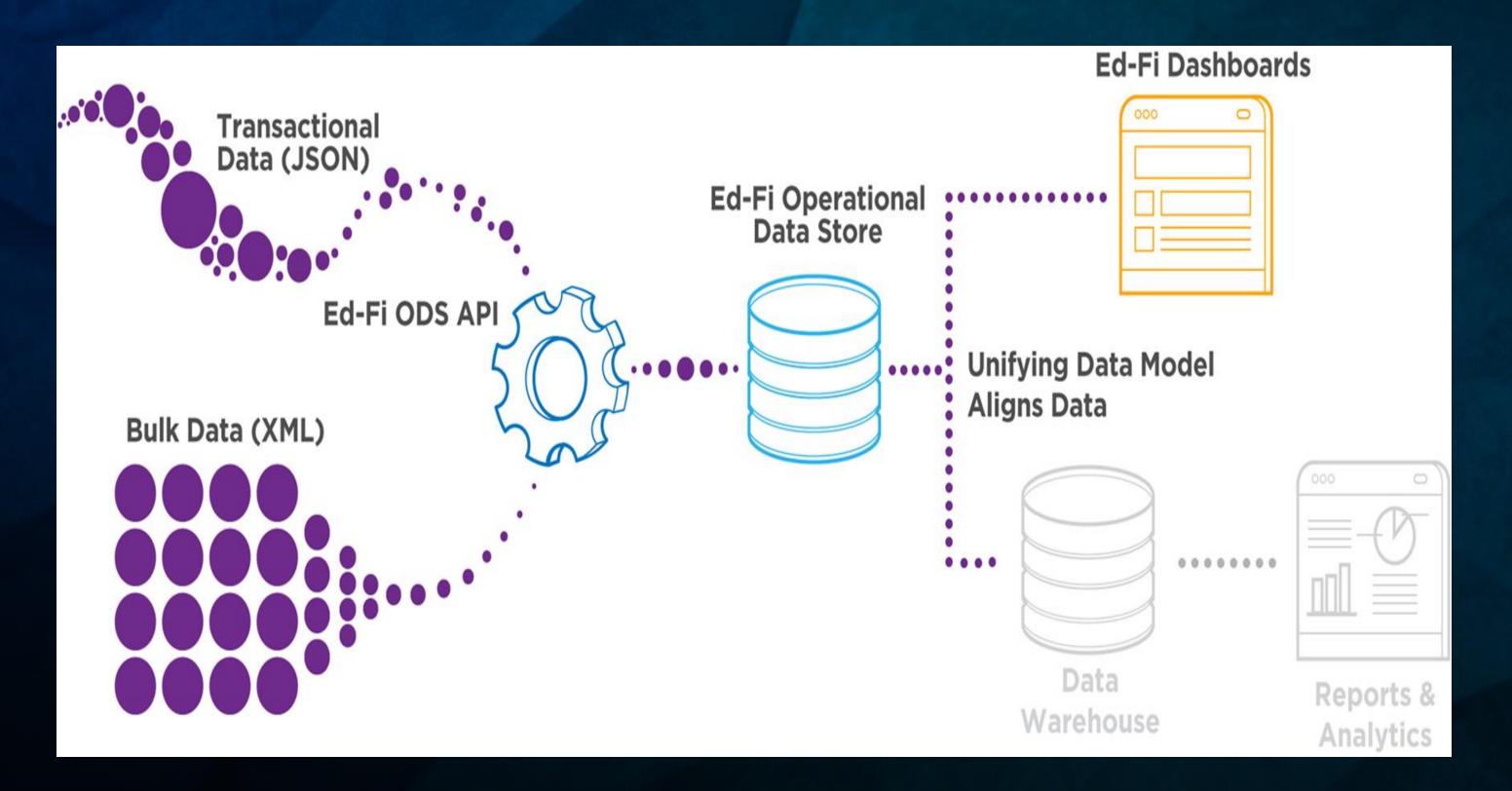


OneRoster Example Data

Data Element Name	Multicity	Notes
sourcedId	1	ore in 77 (85)-4 =-0001
status	1	See subsection 4.13.8 for the enumeration list.
dateLastModified	1	2012-04-23T18:25:43.511Z
metadata	01	
title	1	For example: Maths Test 1
description	01	For example: Simple addition test
assignDate	1	For example: 2012-01-01T18:25:43.511Z
dueDate	1	For example: 2012-01-05T18:25:43.511Z
class	1	Link to class i.e. the class 'sourcedId'.
category	1	Link to item category i.e. the Line Item Category 'sourcedId'.
gradingPeriod	1	Link to grading period i.e. the AcademicSession 'sourcedId'
resultValueMin	1	A floating point number defining (inclusive) the minimum value for the result. For example: 0.0.
resultValueMax	1	A floating point number defining (inclusive) the maximum value for the result. For example: 10.0



Ed-Fi Data Standard





Data Event Triggers

- Allow the system to execute a custom SQL stored procedure
- Can accomplish anything that is possible with SQL
 - Update data in the Aeries database
 - Populate a custom table in the Aeries database
 - Connect to an external SQL database to retrieve and/or populate data

Currently, the system supports the following Data Event Triggers:

Table Name	Table Description	Trigger
STU	Student Data	Record Added
		Record Updated
STF	Staff Data	Record Added
		Record Updated

More tables and triggers will be added in the future.

Trigger – Record added to the STU table

- 1 CREATE PROCEDURE [STU_RecordAdded] (@TID int, @SC smallint, @SN int)
- 2 AS
- 3 BEGIN
- 4 -- Your code here
- 5 END

Trigger - Record updated in the STU table

- 1 CREATE PROCEDURE [STU_RecordUpdated] (@TID int, @SC smallint, @SN int)
- 2 AS
- 3 BEGIN
- 4 -- Your code here
- 5 EN



Key Takeaways

Investigate all possibilities for 3rd party integrations

Contact Aeries Support
 if you run into difficulties
 in the integration
 process

 Aeries has a dedicated team of Data Integration Engineers to support, develop, and maintain solutions for integrations with the Aeries SIS platform



Additional Sessions

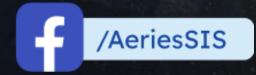
- 241-1 Student & Staff Account
 Automation with G Suite
- 243 The Ed-Fi Data Standard
- 1001 Data Extracts & Automation
- 1008 Querying a REST API with Posh API

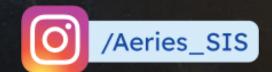




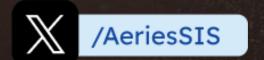
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