Integrations: API, OneRoster, Inbound, Outbound - Deep Dive



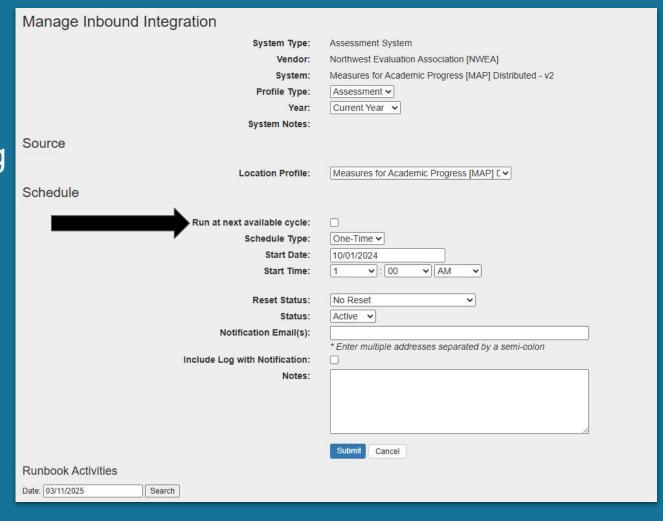
Inbound

Product Catalog will tell you the "Type" of Integration.



Inbound integrations refer to the process of bringing data *into* MiDataHub from other systems. This data is typically uploaded in the form of flat files (e.g., CSV or XML), allowing MiDataHub to receive important information such as student records, assessments, or attendance from external sources like Student Information Systems (SIS), assessment tools, or other educational platforms. This is mostly used for assessments now, and in the future we are hoping all integrations will be done through an API for consistency and security.

Setup choices And Troubleshooting



Activities and What they Show

Runbook Activities

Date: 03/11/2025 Search

Status	Phase Name	Start Time (Eastern)	End Time (Eastern)	Duration
0	Integration Instance Id 44145183	03/10/25 12:15 AM	03/10/25 12:20 AM	00:05:20
0	Integration Instance Id 44038656	03/03/25 12:15 AM	03/03/25 12:20 AM	00:05:21
0	⊕ Integration Instance Id 43940222	02/24/25 12:15 AM	02/24/25 12:20 AM	00:05:21
0	Integration Instance Id 43833949	02/17/25 12:15 AM	02/17/25 12:20 AM	00:05:17
0	Integration Instance Id 43727817	02/10/25 12:15 AM	02/10/25 12:21 AM	00:05:51
9	Integration Instance Id 43622010	02/03/25 12:15 AM	02/03/25 12:20 AM	00:05:23
0	Integration Instance Id 43523630	01/27/25 12:15 AM	01/27/25 12:27 AM	00:12:15
9	Integration Instance Id 43417697	01/20/25 12:15 AM	01/20/25 12:28 AM	00:12:60
0	Integration Instance Id 43311572	01/13/25 12:15 AM	01/13/25 12:23 AM	00:08:31
0	Integration Instance Id 43210413	01/06/25 12:15 AM	01/06/25 12:27 AM	00:11:45
0	Integration Instance Id 43008281	12/23/24 12:15 AM	12/23/24 12:49 AM	00:33:49



Outbound

Definition:

Outbound integrations refer to the process of sending data out of MiDataHub to other systems. This allows users of MiDataHub to provide critical information, such as student records, performance data, or compliance reports, to external systems like state reporting tools, learning management systems (LMS), or other third-party applications. Data is typically exported in formats such as CSV or XML, ensuring seamless transfer to other platforms.

Outbound Integrations (show all)

- State-Sourced System: Assessment Importer 1: Request Assessment for Students without Assessments (current)
- External System: MiLEARN 1: MiLEARN-Authorizations Data (current)
- External System: MiLEARN 1: MiLEARN-Sections Data (current)
 Add Integration

Manage Outbound Integration		
System Type:	External System	
Vendor:	State of Michigan - MDE	
System:	MILEARN - v1	
Output Type:	Report	
Output:	MiLEARN-Authorizations Data	
Year:	Current Year 🔻	
System Notes:		
Query Timeout:	120	
Format		
Format:	Csv ▼	
Destinations		
Destination 1		
Status: Active V	MiLearn Azure Storage - Prod ▼	(remov
+ destination	Mileam Azure Storage - Prod	. 7
	MiLearn Azure Storage - QA	
2.1.21	New Destination	
Schedule		
Run at next available cycle:		
Schedule Type:	Daily	
Start Date:	04/11/2018	
Start Time:	12 V: 30 V AM V	
Repeat Every:	1 Days	
Advanced:	Repeat task every Select > Select >	
	[Author]	
Status:	Active 🗸	

API

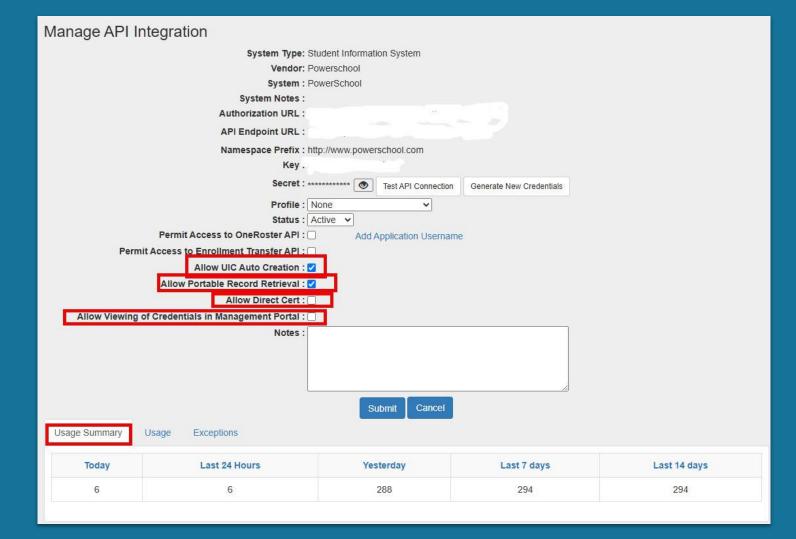
Definition:

API (Application Programming Interface) integration allows MiDataHub to connect directly with other systems and exchange data in real-time. Instead of manually uploading or downloading files, APIs enable automated data sharing between MiDataHub and other platforms (like SIS's or assessment tools) using secure, predefined rules. This integration makes data transfer faster, more accurate, and seamless, reducing errors and manual work.

API Integrations

(show all)

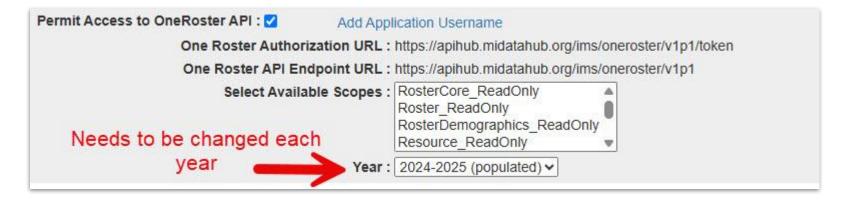
- Student Information System: PowerSchool 1
- State-Sourced System: EEM 1
- State-Sourced System: Assessment Importer 1
- Assessment System: Delta Math 1
- Educational Analytics: Read by Grade 3 Research 1
- Behavior Tracking System: BHWorks 1
- Educational Analytics: Extended Benchmark Studies 1
- Data Warehouse: EVAAS 1
- Add Integration



OneRoster

Definition:

The OneRoster API integration in MiDataHub allows districts to securely share roster data between MiDataHub and other educational platforms, such as learning management systems (LMS) or third-party apps. OneRoster standardizes the way student data (like course enrollments, grades, and user information) is exchanged, making it easier to integrate with other systems. This integration helps streamline the process, reducing data entry errors and ensuring that information is up-to-date and accurate across all platforms.



Scopes

Definition:

In a OneRoster Integration, Scopes define the specific types of data or actions that an application or system is allowed to access or perform. Think of Scopes as a permission system — they control what information can be shared and what operations can be carried out. For example, a system may have a Scope that allows access to student enrollment data, but not to grades or course materials. Scopes help ensure that only the necessary data is shared, maintaining security and compliance.

Notes:

- If no scope is chosen, no data will transfer
- Roster-Core.ReadOnly will cover most of your needs

1EdTech verified OneRoster Vendors