

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

# Inbound

Product Catalog will tell you the “Type” of Integration.

## NWEA MAP

Integration Status: *Production*

Integration Type: *Inbound Integration*

Product Initiative: *Product*

System: *Assessment, Data Warehouse*

## Inbound Integrations

(show all)

- Assessment System: Measures for Academic Progress [MAP] Distributed 2 (current)
- Add 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

## Manage Inbound Integration

**System Type:** Assessment System  
**Vendor:** Northwest Evaluation Association [NWEA]  
**System:** Measures for Academic Progress [MAP] Distributed - v2  
**Profile Type:**   
**Year:**   
**System Notes:**

### Source

**Location Profile:**

### Schedule



**Run at next available cycle:**

☐

**Schedule Type:**

**Start Date:**

**Start Time:**

:

**Reset Status:**

**Status:**

**Notification Email(s):**

*\* Enter multiple addresses separated by a semi-colon*

**Include Log with Notification:**

☐

**Notes:**

### Runbook Activities

Date:

# Activities and What they Show

## Runbook Activities

Date: 03/11/2025

Search

| Status | Phase Name                         | Start Time (Eastern) | End Time (Eastern) | Duration |
|--------|------------------------------------|----------------------|--------------------|----------|
| ✓      | ⊕ Integration Instance Id 44145183 | 03/10/25 12:15 AM    | 03/10/25 12:20 AM  | 00:05:20 |
| ✓      | ⊕ Integration Instance Id 44038656 | 03/03/25 12:15 AM    | 03/03/25 12:20 AM  | 00:05:21 |
| ✓      | ⊕ Integration Instance Id 43940222 | 02/24/25 12:15 AM    | 02/24/25 12:20 AM  | 00:05:21 |
| ✓      | ⊕ Integration Instance Id 43833949 | 02/17/25 12:15 AM    | 02/17/25 12:20 AM  | 00:05:17 |
| ✓      | ⊕ Integration Instance Id 43727817 | 02/10/25 12:15 AM    | 02/10/25 12:21 AM  | 00:05:51 |
| ✓      | ⊕ Integration Instance Id 43622010 | 02/03/25 12:15 AM    | 02/03/25 12:20 AM  | 00:05:23 |
| ✓      | ⊕ Integration Instance Id 43523630 | 01/27/25 12:15 AM    | 01/27/25 12:27 AM  | 00:12:15 |
| ✓      | ⊕ Integration Instance Id 43417697 | 01/20/25 12:15 AM    | 01/20/25 12:28 AM  | 00:12:60 |
| ✓      | ⊕ Integration Instance Id 43311572 | 01/13/25 12:15 AM    | 01/13/25 12:23 AM  | 00:08:31 |
| ✓      | ⊕ Integration Instance Id 43210413 | 01/06/25 12:15 AM    | 01/06/25 12:27 AM  | 00:11:45 |
| ✗      | ⊕ 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:**   
**System Notes:**  
**Query Timeout:**

### Format

**Format:**

### Destinations

#### Destination 1

**Status:**

[+ destination](#)

[\(remove\)](#)

### Schedule

**Run at next available cycle:** ☐

**Schedule Type:**

**Start Date:**

**Start Time:**  :

**Repeat Every:**  Days

**Advanced:** ☐ Repeat task every

**Status:**

# 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](#)

## Manage API Integration

**System Type:** Student Information System

**Vendor:** Powerschool

**System :** PowerSchool

**System Notes :**

**Authorization URL :**

**API Endpoint URL :**

**Namespace Prefix :** http://www.powerschool.com

**Key :**

**Secret :** \*\*\*\*\*



Test API Connection

Generate New Credentials

**Profile :** None

**Status :** Active

**Permit Access to OneRoster API :** ☐

[Add Application Username](#)

**Permit Access to Enrollment Transfer API :** ☐

**Allow UIC Auto Creation :** ☒

**Allow Portable Record Retrieval :** ☒

**Allow Direct Cert :** ☐

**Allow Viewing of Credentials in Management Portal :** ☐

**Notes :**

Submit

Cancel

Usage Summary

Usage

Exceptions

| Today | Last 24 Hours | Yesterday | Last 7 days | Last 14 days |
|-------|---------------|-----------|-------------|--------------|
| 6     | 6             | 288       | 294         | 294          |

# 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.

**Permit Access to OneRoster API :** ☒ [Add Application Username](#)

**One Roster Authorization URL :** <https://apihub.midatahub.org/ims/oneroster/v1p1/token>

**One Roster API Endpoint URL :** <https://apihub.midatahub.org/ims/oneroster/v1p1>

**Select Available Scopes :**

- RosterCore\_ReadOnly
- Roster\_ReadOnly
- RosterDemographics\_ReadOnly
- Resource\_ReadOnly

**Needs to be changed each year** → **Year :** 2024-2025 (populated) ▼

# 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](#)