MN Ed-Fi Suite v3.6.2, Data Standard v4.0: Student Education Organization Responsibility Associations

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Summary

This association indicates a relationship between a student and an education organization other than an enrollment relationship, and generally indicating some kind of responsibility of the education organization for the student.

Object Triggering Logic

Action	Business Rule(s)

Post	Report a record when the student has a Joint Powers program record that overlaps an Enrollment-Transportation record combination in the current configuration year.

Report a record when the student has a Joint Powers program record that overlaps an Enrollment-Transportation record combination in the current configuration year.

- A record will report for each unique Joint Powers program record.
- The primary scenarios that define "Enrollment-Transportation" records are defined below:
  - Enrollment Dates where a Transportation record is started in the middle of the Enrollment.
  - Enrollment Dates where a Transportation record is ended in the middle of the Enrollment.
  - Enrollment Dates with no overlapping Transportation records.
  - Additional explanation of the Enrollment-Transportation records and how they would report can be found in the Appendix.
- A record is only reported for Joint Powers programs and Enrollments in the same School Year as the Ed-Fi Connection sending the record.
  - School Year dates are defined in School Year Setup.
    - If Start Date is NULL, 07/01/StartYear will be used.
    - If End Date is NULL, 06/30/EndYear will be used.
- Do not report a record if the any of the following exclusions are present:
  - Enrollment No Show
  - Enrollment State Exclude
  - Enrollment Grade Level Exclude
  - Calendar Exclude
  - School Exclude

| Delete/Post

Put | A DELETE / POST will be performed if the data element being altered is part of the resource's natural key. A PUT will be performed otherwise.

- When the following information is changed on a Joint Powers program record:
  - Program ID (New Program)
  - Start Date
  - End Date
  - Reporting District
  - Reporting School
- When the following information is changed on an Enrollment record:
  - Enrollment ID (New Enrollment)
  - Start Date
  - End Date
  - No Show
  - State Exclude
- When the following information is changed on a Transportation record:
  - Transportation ID (New Transportation)
  - Start Date
  - End Date
  - Transportation Code
  - Transporting District
- Changes to Resource Preferences mappings **do NOT trigger**. A manual resync must be performed on the resource if mappings are changed. |
| --- | --- |
| Delete | - When an Enrollment is deleted or no longer overlaps the configured year.
- When an Enrollment is now excluded from reporting.
- When the Joint Powers program is deleted.
- When the Joint Powers program no longer overlaps the configured year. |

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Students / Student School Associations
- Schools
- Local Education Agencies

Dependent Resources (Downstream)

The following resources are dependent on this resource (must be sent after this resource):

- N/A

Error Log

The following are potential Tier 1 (Ed-Fi API generated) or custom (Campus generated) errors you may receive when posting, updating, or deleting this resource. Please keep in mind that the "Error Message" below may not match your exact error message.

Error Message	Possible Causes / How to Fix
400: Validation of '**RESOURCE**' failed. **FIELD** is required.	An element of the JSON that is required is missing and needs to be added. • Double check that all bolded data elements below are reporting a valid value and no data elements below are reporting an invalid value.
400: '**RESOURCE**' failed. **RESOURCE** reference could not be resolved.	A resource that was referenced from a difference resource does not yet exist. • Resync the resource being mentioned in the error, then resync the errored resource. Alternatively, the resource being referenced may be incorrect. This can happen with Schools and the Ed-Fi School ID being used as an example. Double check the referenced values being sent are valid.
403: Authorization denied. The claim does not have any established relationships with the requested resource.	The key/secret being used does not have permission to send a record for the resource / referenced resource. • Double check your API credentials (key/secret). Sometimes specific keys/secrets cannot report specific resources. • The referenced person (student, staff, parent, contact, etc.) has not yet been associated to the key/secret. Resync their "linking" resource (Students → Student School Associations, Staffs → Staff Education Organization Assignment Associations, etc.) then resync the errored resource. • The referenced person (student, staff, parent, contact, etc.) may not exist in the ODS yet. Resync the "person" resource and the "linking" resource (Students → Student School Associations, Staffs → Staff Education Organization Assignment Associations, etc.) then resync the errored resource.
404: Failed to delete '**RESOURCE**'. Record does not exist.	The attempt to delete a specific Ed-Fi record ID in the ODS failed because it did not exist. • This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again.
409: A natural key conflict occurred when attempting to create a new resource '**RESOURCE**' with a duplicate key.	The Ed-Fi API has a natural key system alongside a standard REST ID system. This error is often protecting against the erroneous creation of a duplicate record in the API. However, it may also indicate that the natural key requirements of the Ed-Fi API have not been satisfied, and the key needs to be modified. • Check for duplicate data in your Campus site. If no duplicate data can be found, report the issue to Campus Support. ◦ This can be caused by numerous issues. Our code may be attempting to send duplicate records when it should not. The natural key (bolded fields below) may not be unique enough to satisfy Ed-Fi requirements in all cases. Most times this error will require a code change to fix.

409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the '**RESOURCE**' entity.	The resource that the application is attempting to delete is referenced from another entity. • Use the Delete Tool to delete the referenced resource in the error message. Then retry the delete on the original resource that errored.

500: Internal Server Error.	Something unexpected happened and no specific error message could be returned.
	• This issue usually occurs when the ODS is having issues. Confirm that there are no issues with the ODS the data is being sent to and then attempt to retry the errored record.
	• Contact Campus Support if 500 errors continue to occur, can be replicated consistently, and the ODS the data is being sent to has no ongoing issues.
	  ○ There is a chance that Campus Ed-Fi code is sending an invalid JSON request resulting in the 500 error.
	  ○ There is a chance that an Ed-Fi Data Standard / API bug is causing the issue.
	  ○ Investigation is needed in these cases as there are many different potential causes.

Object Data Elements Logic

Data element labels below in **BOLD** are part of the natural key of this resource and are required data elements for the record to send through Ed-Fi.

• The Mandatory / Conditional / Optional column indicates what the state requires for each data element.

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✅ / ❌ / EXT)
1	**beginDate** (*date*)	*Month, day, and year of the start date of an education organization's responsibility for a student.* • Reports the **Enrollment Start Date** when reporting from an Enrollment with no overlapping Transportation records. • Reports the **Transportation Start Date** when reporting from a Transportation record that overlaps the Enrollment. • Reports the **Immediate Next Date** when reporting from an Enrollment where a Transportation record just ended and there are no current overlapping Transportation records. ○ The "Immediate Next Date" is defined as the day following the Transportation End Date. **Notes:** • For an in-depth example, please see the Appendix.	M	Enrollments Transportation	Enrollment .startDate Transportation .startDate TransportationStudent Detail .startDate	❌

2	**responsibilityDescriptor** (*string*)	*Indications of an education organization's responsibility for a student, such as accountability, attendance, funding, etc.* Reports **MARSS**.	M	N/A	N/A	✖
3	**educationOrganizationReference** (*reference*)	*A reference to the Schools resource associated with the Student Education Organization Responsibility Association being reported.* • educationOrganizationId ○ Reports the **Ed-Fi School ID** associated with the School of the Enrollment.	M	School Information	School .entityID	✖
4	**studentReference** (*reference*)	*A reference to the Students resource associated with the Student Education Organization Responsibility Association being reported.* Reports the fields that are part of the Natural Key for the Students resource.	M	N/A	N/A	✖

| 5 | endDate (*date*) | *Month, day, and year of the end date of an education organization's responsibility for a student.*

 • Reports the **Enrollment End Date** when reporting from an Enrollment with no overlapping Transportation records.
  ○ If the Enrollment End Date occurs after the last instructional day of the calendar, report the **Last Instructional Day of the Enrollment Calendar**.
 • Reports the **Transportation End Date** when reporting from a Transportation record that overlaps the Enrollment.
  ○ If the Transportation End Date occurs after the last instructional day of the calendar, report the **Last Instructional Day of the Enrollment Calendar**.
 • Reports the **Immediate Prior Date** when reporting from an Enrollment that is being ended by a Transportation record.
  ○ The "Immediate Prior Date" is defined as the day before the Transportation Start Date.

Notes:
 • All calculated dates must be an **instructional** date associated to the Enrollment Calendar.
  ○ The **only** exception to this is when the **State Aid Category** is set to *98: Summer graduate/dropout* **OR** there are no Days defined in the Calendar. In this scenario, instructional days will be ignored.
 • Report the past nearest instructional date if the calculated date is not an instructional day.
  ○ Example:
    ▪ 2/13/2023 is the calculated date. This is not an instructional day.
    ▪ 2/12/2023 is not an instructional day.
    ▪ 2/11/2023 **IS** an instructional day.
    ▪ We would report 2/11/2023.
 • For an in-depth example, please see the [Appendix]. | C | Enrollments

 Transportation | Enrollment .endDate

 Transportation .endDate

 TransportationStudent Detail .endDate | ❌ |
| 6 | reportingEducation OrganizationReference (*reference*) | *A reference to the Schools resource associated with the Student Education Organization Responsibility Association being reported.*

 Reports the fields that are part of the Natural Key for the Schools resource for the School selected in **Reporting School**. | M | Joint Powers | DistrictResidency .reportingSchool | EXT |

Appendix

SEORA Object Triggering Example

∨ Click here to expand...

This area of the Appendix provides an example scenario for the Enrollment-Transportation selection logic and how it would report. Transportation records act as "segments" of an Enrollment which need to be reported separately in Minnesota. Infinite Campus has implemented logic to determine the appropriate **EFFECTIVE** Start and End Date of each Student School Associations record to account for this. Assume we have the following data:

- Enrollment
  - Service Type is *P: Primary*
  - Start Date is Jul 1, 2024
  - End Date is Jun 15, 2025
- Transportation
  - Record One
    - Start Date is Aug 1, 2024
    - End Date is Oct 1, 2024
  - Record Two
    - Start Date is Jan 1, 2025
    - End Date is Mar 1, 2025
- (Enrollment) Calendar
  - The last instructional day is Jun 5, 2025
  - Winter Break is Dec 21, 2024 through Jan 5, 2025 (noninstructional)
  - Mar 1, 2025 is a noninstructional day (weekend)
  - Assume if not explicitly mentioned that all other days are instructional.

The total Student School Association records that would report would be:

Segment	Record Type	Start Date	End Date	Explanation
1	No Transportation	Jul 1, 2024	Jul 31, 2024	This period of the Enrollment has no Transportation records associated with it. An effective End Date is determined to be one day prior to the start of Transportation Record One.
2	Transportation	Aug 1, 2024	Oct 1, 2024	This period of the Enrollment is associated with Transportation Record One.

3	No Transportation	Oct 2, 2024	Dec 20, 2024	This period of the Enrollment is between Transportation Record One and Transportation Record Two (i.e. has no Transportation records associated with it). An effective Start Date is determined to be one day after Transportation Record One and an effective End Date is determined to be the immediate most instructional day (based on the Enrollment Calendar) prior to Transportation Record Two. • The day prior to Transportation Record Two is Dec 31, 2024 . This is not an instructional day on the student's Calendar, so we instead go back in time to the nearest instructional day, which is Dec 20, 2024 .
4	Transportation	Jan 1, 2025	Feb 28, 2025	This period of the Enrollment is associated with Transportation Record One. An effective End Date is determined to be the immediate most instructional day (based on the Enrollment Calendar) prior to the Transportation Record Two End Date. • The End Date of Transportation Record Two is Mar 1, 2025 . This is not an instructional day on the student's Calendar, so we instead go back in time to the nearest instructional day, which is Feb 28, 2025 . • The Start Date of Transportation Record Two is used as the effective Start Date. We do **NOT** care about noninstructional days for Start Date of Transportation-based records.

| 5 | No Transportation | Mar 2, 2025 | Jun 5, 2025 | This period of the Enrollment is after Transportation Record Two (i.e. has no Transportation records associated with it). An effective Start Date is determined to be one day after Transportation Record Two End Date and an effective End Date is determined to be the immediate most instructional day prior to the Enrollment End Date.

• The End Date of Transportation Record Two is Mar 1, 2025 . Note that we use the Transportation record's End Date and **NOT** the calculated SSA effective End Date when determining the next record's effective Start Date. In this scenario, the immediate next day after the Transportation Record Two is Mar 2, 2025 .
• The Enrollment End Date is Jun 15, 2025 . This is **NOT** an instructional day. We determine the effective End Date by taking the immediate most instructional day prior to the Enrollment End Date, which is the Calendar's last instructional day of Jun 5, 2025 . |