MN Ed-Fi Suite v3.5.2, Data Standard v3.3.0-a: Student Education Organization Associations

MN Ed-Fi Suite v3.5.2, Data Standard v3.3.0-a: Student Education Organization Associations

Table of Contents

Summary

This association represents student information as reported in the context of the student's relationship to the education organization. Enrollment relationship semantics are covered by StudentSchoolAssociation.

Object Triggering Logic

Action	Business Rule(s)

Transforming K12 Education®

Post	Reports a record when an Enrollment is saved and overlaps the configured year.

	• A record is only reported for 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 any of the following information is changed on Enrollments:
	  ○ Enrollment ID (New Enrollment)
	  ○ Start Date
	  ○ End Date
	  ○ No Show
	  ○ State Exclude
	  ○ Immigrant

Transforming K12 Education®

- When any of the following information is changed on Identity:
  - Identity ID (New Identity)
  - Effective Date
  - Gender
  - Legal Gender
  - Home Primary Language
  - Race Checkboxes
  - Is the individual Hispanic/Latino?
  - Race Ethnicity
  - More Detailed Hispanic/Latino Codes
  - More Detailed Race/Ethnicity Codes
  - First Name
  - Legal First Name
  - Last Name
  - Legal Last Name
  - Suffix
  - Legal Suffix
  - Middle Name
  - Legal Middle Name
- When any of the following information is changed on Demographics:
  - Ed-Fi ID
  - Student Number
- When any of the following information is changed on Relationships:
  - Relationship ID (New Relationship)
  - Guardian
  - Start Date
  - End Date
- When any of the following information is changed on Digital Equity:
  - Digital Equity ID (New Digital Equity)
  - Start Date
  - End Date
  - Internet Access in Residence
  - Primary Internet Access Type in Res
  - Internet Performance
  - Primary Digital Device
  - Primary Learning Device Provider
  - Primary Device Access

Transforming K12 Education®

	• When any of the following information is changed on FRAM Eligibility:
	   ○ FRAM ID (New FRAM record)
	   ○ Start Date
	   ○ End Date
	   ○ Opt Out SCHIP
	• When any of the following information is changed on Military Connections:
	   ○ Military Connections ID (New Military Connections record)
	   ○ Start Date
	   ○ End Date
	   ○ Status
	   ○ Branch
	• When any of the following information is changed on English Learners (EL) records:
	   ○ EL ID (New EL record)
	   ○ SLIFE
	   ○ SLIFE Identified Date
	   ○ RAEL Identified Date
	• Changes to Resource Preferences mappings **do NOT trigger**. A manual resync must be performed on the resource if mappings are changed.

Delete	• When the student is now excluded in some way. • When the Enrollment is deleted. • When the Enrollment dates are changed to no longer overlap the configured year. • When a record is in the Ed-Fi Identity Mapping Report but cannot be found on the Campus site.

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Local Education Agencies
- Students

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.

Transforming K12 Education®

| 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. |

Transforming K12 Education®

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. For Core Ed-Fi connections, it indicates what the data standard 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	**educationOrganizationReference** (*reference*)	*A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Student Education Organization Association being reported.* Reports the fields that are part of the Natural Key for the Schools resource. • schoolId ○ Reports the **Ed-Fi School ID**. ○ When the Ed-Fi School ID is NULL, reports the concatenation of **District Type** (strips any leading 0's) + **District Number** (First 4 characters, 0-padded on left) + **State School Number** (First 3 characters, 0-padded on left).	M	N/A	N/A	✅

2	**studentReference** (*reference*)	*A reference to the Students resource associated with the Student Education Organization Association being reported.* Reports the fields that are part of the Natural Key for the Students resource.	M	N/A	N/A	✅

3	ancestryEthnicOrigins (*array*)	*An unordered collection of studentEducation OrganizationAssociation AncestryEthnicOrigins. The original peoples or cultures with which the individual identifies.*
		
		Reports the following data elements in an array:
		
		• ancestryEthnicOriginDescriptor
		  ○ Reports the Ed-Fi Code mapped to the value(s) selected for **More Detailed Hispanic/Latino Codes** and **More Detailed Race/Ethnicity Codes**.
		    ■ Does not report if these fields are NULL or not mapped to an Ed-Fi Code.
		    ■ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.
			C	Identities	RaceSubcategory . subcategory
					
					HispanicSubcategory . subcategory
						❌

4	hispanicLatinoEthnicity (*boolean*)	*An indication that the individual traces his or her origin or descent to Mexico, Puerto Rico, Cuba, Central, and South America, and other Spanish cultures, regardless of race. The term, "Spanish origin," can be used in addition to "Hispanic or Latino."* • Report **True** when *Is the individual Hispanic/Latino?* is set to *Y: Yes* on the current Identity record. • Report **False** in all other situations.	O	Identities	Identity . hispanicEthnicity	✅

| 5 | languages (*array*) | *An unordered collection of studentEducationOrganizationAssociationLanguages. The language(s) the individual uses to communicate. It is strongly recommended that entries use only ISO 639-3 language codes.*

Reports the following data elements in an array:

• languageDescriptor
  ○ Reports the Ed-Fi Code mapped to the value selected for **Home Primary Language** on the current Identity record.
    ■ This mapping is hard-coded but can be overwritten using the Language Descriptor Override mapping in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.
• uses
  ○ languageUseDescriptor
    ■ Reports **Home language**.
      • This is hard-coded as we only report the Home Primary Language. | O | Identities | Identity . homePrimaryLanguage | ✅ |

Transforming K12 Education®

| 6 | races (*array*) | An unordered collection of studentEducation OrganizationAssociation Races. The general racial category which most clearly reflects the individual's recognition of his or her community or with which the individual most identifies as last reported to the education organization. The data model allows for multiple entries so that each individual can specify all appropriate races.

Reports the following data elements in an array:

• raceDescriptor
  ○ Reports the Ed-Fi Code mapped to each race checkbox that is checked in the current Identity record.
    ■ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource. | O | Identities | RaceEthnicity .raceID | ✅ |

| 7 | sexDescriptor (*string*) | *A person's gender.*

Reports the **Legal Gender** from the person's most recent Identity record. Will report based on **Gender** if Legal Gender is NULL.

• Male reports **Male**.
• Female reports **Female**.
• All other codes report **Not Selected**.
  ○ This will error. This is by design to indicate that the Gender selected cannot be reported.
• Only uses Legal Information when the "Report Legal Identifies when provided?" override is checked.
  ○ This override can be specified in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.
  ○ When this override is **NOT** checked, only preferred information will be used. | O | Identities | Identity .legalGender

Identity .gender | ✖ |
| 8 | studentCharacteristics (*array*) | *An unordered collection of studentEducation OrganizationAssociation StudentCharacteristics. Reflects important characteristics of a student. If a student has a characteristic present, that characteristic is considered true or active for that student. If a characteristic is not present, no assumption is made as to the applicability of the characteristic, but local policy may dictate otherwise.*

Reports the following data elements in an array. Reports a record for each characteristic the student is eligible for based on below requirements.

• studentCharacteristicDescriptor | C | **Active Duty Parent:**

Military Connections

American Indian Alaskan Native:

Identities

Immigrant:

Enrollments | **Active Duty Parent:**

ImpactAidEmployment .militaryStatus, . militaryBranch

American Indian Alaskan Native:

Identity .raceEthnicity

Immigrant:

Enrollment .immigrant

RAEL: | ✖ |

○ Reports the Ed-Fi Code mapped to the value selected for each respective area. This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.

RAEL:

English Learner(s)

SLIFE:

English Learner(s)

LEP .raelIdentifiedDate

SLIFE:

LEP .slife, . slifeIdentifiedDate

○

Type	Logic
1 (Active Duty Parent)	Reports when the student's relationship has a Military Connections record where the Military Branch has a value and the Military Status is in *Active Duty, Deployed* or *Active Duty, Not Deployed* **AND** the Military Connections record overlaps the configuration year **AND** the student's relationship for the Military Connections record is marked as a Guardian of the student.
2 (American Indian - Alaskan Native (Minnesota))	Reports when the student's current Identity record has a **Race Ethnicity** of *01: North American Indian or Alaska Native* or *03: Both North American Indian or Alaska Native AND American Indian from South or Central America*. ■ The Race Ethnicity field **CAN** be hidden by districts. If you do not see the field in Identity, ensure the field is not hidden.
4 (Immigrant)	Reports when the associated Enrollment has **Immigrant** checked.

5 (RAEL - Recently Arrived English Learner)	Reports when the **RAEL Identified Date** on an English Learner(s) record is before 06/30 /EndYear. ▪ EndYear is defined as the Ed-Fi Configuration's end year.
6 (SLIFE - Students with Limited or Interrupted Formal Education)	Reports when the **SLIFE** is checked on an Englisher Learner (s) record where the SLIFE Identified Date is before 06/30 /EndYear **OR** when it is NULL. ▪ EndYear is defined as the Ed-Fi Configuration's end year.

- The following data elements do not report:
  - designatedBy
  - periods
    - beginDate
    - endDate

| 9 | studentIdentificationCodes (*array*) | *An unordered collection of studentEducation OrganizationAssociation StudentIdentificationCodes. A coding scheme that is used for identification and record-keeping purposes by schools, social services, or other agencies to refer to a student.*

Reports the following data elements in an array. This array will report if the Local Student Number or Student State ID fields have a value:

• studentIdentificationSystemDescriptor
  ○ Reports **Local**.
• assigningOrganizationIdentificationCode
  ○ Reports the **Ed-Fi School ID**.
  ○ When the Ed-Fi School ID is NULL, reports the concatenation of **District Type** (strips any leading 0's) **+ District Number** (First 4 characters, 0-padded on left) **+ State School Number** (First 3 characters, 0-padded on left).
• identificationCode
  ○ Reports the **Person ID**. | C | Demographics | Person .personID | ⊗ |
| 10 | studentIndicators (*array*) | *An unordered collection of studentEducationOrganizationAssociationStudentIndicators. An indicator or metric computed for the student (e.g., at risk).*

Reports the following data elements in an array:

• indicatorGroup, indicatorName, and indicator
  ○ Report based on the below table:
  ○ All Digital Equity "Names" below have spaces added for documentation, but report with no spaces.

| **Group** | **Name** | **Indicator Logic** | | C | Digital Equity | DigitalEquity . startDate, .endDate, . accessInResidence, . internetAccessType, . internetPerformance, . digitalDevice, . deviceProvider, . deviceAccess | ⊗ |

Digital Equity	Internet Access In Residence	Reports the Ed-Fi Code mapped to the value selected for **Internet Access in Residence** on the most recent Digital Equity program record that overlaps the current configuration year. ■ Does not report if NULL or not mapped. ■ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.

Transforming K12 Education®

Digital Equity	Internet Access Type In Residence	Reports the Ed-Fi Code mapped to the value selected for **Primary Internet Access Type in Res** on the most recent Digital Equity program record that overlaps the current configuration year. ▪ Does not report if NULL or not mapped. ▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.

Transforming K12 Education®

Digital Equity	Internet Performance	Reports the Ed-Fi Code mapped to the value selected for **Internet Performance** on the most recent Digital Equity program record that overlaps the current configuration year. ■ Does not report if NULL or not mapped. ■ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.

Transforming K12 Education®

Digital Equity	Digital Device	Reports the Ed-Fi Code mapped to the value selected for **Primary Digital Device** on the most recent Digital Equity program record that overlaps the current configuration year.
		▪ Does not report if NULL or not mapped. ▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.

Digital Equity	Primary Learning Device Provider	Reports the Ed-Fi Code mapped to the value selected for **Primary Learning Device Provider** on the most recent Digital Equity program record that overlaps the current configuration year. ▪ Does not report if NULL or not mapped. ▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.

Transforming K12 Education®

Digital Equity	Primary Learning Device Access	Reports the Ed-Fi Code mapped to the value selected for **Primary Device Access** on the most recent Digital Equity program record that overlaps the current configuration year. ▪ Does not report if NULL or not mapped. ▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Education Organization Associations resource.

- The following data elements do not report:
  - designatedBy
  - periods

11	birthDate (*date*)	*The month, day, and year on which an individual was born.* Reports the **Birth Date** from the most recent Identity record. • Does not report if Birth Date is NULL.	M	Identities	Identity .birthdate	EXT

12	firstName (*string*)	*A name given to an individual at birth, baptism, or during another naming ceremony, or through legal change.*
		
		Reports the **Legal First Name** from the person's most recent Identity record.
		
		• Reports the **First Name** if Legal First Name is NULL.
		• Only uses Legal Information when the "Report Legal Identifies when provided?" override is checked.
		  ○ This override can be specified in the Resource Preferences of the Ed-Fi Connection under the Students resource.
		  ○ When this override is **NOT** checked, only preferred information will be used.
			M	Identities	Identity .legalfirstName
					
					Identity .firstName
						EXT

13	generationCodeSuffix (*string*)	*An appendage, if any, used to denote an individual's generation in his family (e.g., Jr., Sr., III).*
		
		Reports the **Legal Suffix** from the person's most recent Identity record.
		
		• Reports the **Suffix** if Legal First Name is NULL.
		• Only uses Legal Information when the "Report Legal Identifies when provided?" override is checked.
		  ○ This override can be specified in the Resource Preferences of the Ed-Fi Connection under the Students resource.
		  ○ When this override is **NOT** checked, only preferred information will be used.
			C	Identities	Identity .legalSuffix
					
					Identity .suffix
						EXT

| 14 | lastSurname (*string*) | *The name borne in common by members of a family.*

 Reports the **Legal Last Name** from the person's most recent Identity record.

 • Reports the **Last Name** if Legal First Name is NULL.
 • Only uses Legal Information when the "Report Legal Identifies when provided?" override is checked.
   ○ This override can be specified in the Resource Preferences of the Ed-Fi Connection under the Students resource.
   ○ When this override is **NOT** checked, only preferred information will be used. | M | Identities | Identity .legallastName

 Identity .lastName | EXT |
| 15 | middleName (*string*) | *A secondary name given to an individual at birth, baptism, or during another naming ceremony.*

 Reports the **Legal Middle Name** from the person's most recent Identity record.

 • Reports the **Middle Name** if Legal First Name is NULL.
 • Only uses Legal Information when the "Report Legal Identifies when provided?" override is checked.
   ○ This override can be specified in the Resource Preferences of the Ed-Fi Connection under the Students resource.
   ○ When this override is **NOT** checked, only preferred information will be used. | C | Identities | Identity . legalmiddleName

 Identity .middleName | EXT |

16	optOutIndicators (*array*)	*An unordered collection of studentEducation OrganizationAssociation OptOutIndicators. Opt Out Indicators.*
		
		Reports the following data elements in an array:
		
		• optOutIndicatorDescriptor
		  ○ Reports **MNC** (Minnesota Care) when the student has a FRAM Eligibility record with **SCHIP Opt Out** checked that overlaps the configuration year.
		    ■ The Opt Out SCHIP field will only display on FRAM Eligibility records when "Display SCHIP Opt Out" is checked in the FRAM Preferences > Application Preferences screen.
			C	FRAM Eligibility	POSEligibility . optOutSCHIP
					
					POSEligibility . endYear
						EXT

17	addresses	This data element is optional and does not report.	O	N/A	N/A	⊗
18	barrierTo InternetAccess InResidenceDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
19	cohortYears	This data element is optional and does not report.	O	N/A	N/A	N/A
20	disabilities	This data element is optional and does not report.	O	N/A	N/A	⊗
21	electronicMails	This data element is optional and does not report.	O	N/A	N/A	⊗
22	internationalAddresses	This data element is optional and does not report.	O	N/A	N/A	N/A
23	internetAccessInResidence	This data element is optional and does not report.	O	N/A	N/A	N/A
24	internetAccess TypeInResidence Descriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
25	internetPerformance InResidenceDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
26	limitedEnglish ProficiencyDescriptor	This data element is optional and does not report.	O	N/A	N/A	⊗
27	loginId	This data element is optional and does not report.	O	N/A	N/A	N/A

28	oldEthnicityDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
29	primaryLearning DeviceAccessDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
30	primaryLearning DeviceAwayFrom SchoolDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
31	primaryLearning DeviceProvider Descriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
32	profileThumbnail	This data element is optional and does not report.	O	N/A	N/A	N/A
33	programParticipations	This data element is optional and does not report.	O	N/A	N/A	N/A
34	telephones	This data element is optional and does not report.	O	N/A	N/A	❌
35	tribalAffiliations	This data element is optional and does not report.	O	N/A	N/A	N/A

Transforming K12 Education®

Appendix

Transforming K12 Education®