

NE Ed-Fi Suite v3.6.1, Data Standard v4.0: Student School Associations

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Summary

This association represents the school in which a student is enrolled. The semantics of enrollment may differ slightly by state. Non-enrollment relationships between a student and an education organization may be described using the Student Education Organization Association resource.

Object Triggering Logic

Action	Business Rule(s)
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Post	• When a new enrollment is saved for a student. A record will report for each distinct enrollment in a School and Enrollment Start Date • When a student has two enrollments in the same School, Calendar & Schedule Structure with the same start date, report from the enrollment service type in the following order: ◦ P: Primary Enrollment ◦ S: Partial/Ancillary ◦ N: Special Ed Services • When a student has two Primary enrollments in the same school with the same start date, post the record with the highest enrollment ID • When an enrollment with a higher priority is deleted, the enrollment with lower priority will post a new record • Do not send records if the Calendar Exclude check box is checked in the calendar the student is enrolled • Do not send records if the School Exclude check box is checked in the calendar the student is enrolled • Do not send a record if the No Show check box is checked • When the School of Assignment field is populated, report the ID in the NE extension field for Reporting School • When the start date for an enrollment is changed • When an enrollment with a lower priority is changed, data will not send
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 an enrollment is updated for a student • When a change is made to the Graduation > NCLB Cohort End Year field • When a student is assigned to a Graduation or CTE Program or the start and/or end dates are modified • When a student's start status is changed • When a student's end status is changed • When a student's grade level is changed • When a student's End Action is changed • When a student's School Choice checkbox is checked or unchecked • When a student's Resident District or Service District fields are changed • When a student's Service Type is changed • When the Calendar reference is changed due to a Natural Key update on the Calendars resource

Delete	• When an enrollment is deleted • When a student has two enrollments in the same school for the same start date, records with lower priority will not trigger a delete • When the start date of an enrollment is changed • When the No Show check box is checked
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Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Students
- Schools
- Graduation Plans
- Calendars

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.
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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	schoolReference	<i>A reference to the related Schools resource</i> 1. If the Calendar > Calendar > Secondary School <> NULL, report from the Secondary School 2. Otherwise, report from the Primary school	M	Calendar > Calendar > Secondary School Calendar > Calendar > School	Calendar. secondarySchool n/a	

2	residencyStatusDescriptor	<i>An indication of the location of a persons legal residence relative to (within or outside of) the boundaries of the public school attended and its administrative unit.</i> Reports the mapped value for for the Enrollment> Resident Status field.	M			
3	fullTimeEquivalency	<i>The full-time equivalent ratio for the student s assignment to a school for services or instruction. For example, a full-time student would have an FTE value of 1 while a half-time student would have an FTE value of 0.5.</i> If value was provided in Enrollment > Percent Enrolled <> NULL, divide by 100 and send. Else if a default value was set, divide this value by 100 and send. Else send 1 100% = 1.0 (75% = .75, 50% = .50, 25% = .25, etc.)	C			

4	exitWithdrawDate	<i>The month, day, and year of the first day after the date of an individual's last attendance at a campus (if known), the day on which an individual graduated, or the date on which it becomes known officially that an individual left school.</i> <i>NEDM: Exit/Withdraw Date</i> 1. Report the enrollment end date	M			
5	exitWithdrawTypeDescriptor	<i>A unique identifier used as Primary Key, not derived from business logic, when acting as Foreign Key, references the parent table</i> 1. Report the Ed-Fi Code Value from the End Status selected 2. If blank, do not report	M			

6	residentLocalEducationAgencyReference	<i>This association indicates any relationship between a student and an education organization other than however the state views enrollment.</i> 1. Reports the district number selected in the Home District field on the enrollment being reported. • report the default value if populated. 2. If Home District is NULL, report the District Number of where the student is enrolled. 3. The format for this field must be 'XX-XXXX'.	M	Student Information> General> Enrollments> Home District Or System Admin> Resources> District> District Number	enrollment. residentDistrict or district.number	EXT
7	residentSchoolReference	<i>Reports if populated on student enrollment.</i> Report as xx-xxxx-xxx Example: Home District Number 280017 +Resident School Number 007 will report as 28-0017-007.	C			EXT

8	reportingSchoolReference	<i>A reference to the related School resource.</i> The identifier assigned to a school by the State Education Agency (SEA).	M	System Administration > Resources > School > State School Number		EXT
9	expectedHighSchoolOfGraduationSchoolReference	<i>An indication of where the student is expected to graduate from.</i> If the student is expected to graduate from a High School that the student is currently NOT enrolled in, report that information from the Expected Grad High School field on enrollment. If the student will be graduating from the school they are currently enrolled in, we do not need to report this field.	C	Student Info> General> Enrollment> State Reporting> Expected Grad High School		EXT
10	studentDaysEnrolled	<i>An override field for student calendars.</i> Send this data if the Student Days Enrolled field is populated. If not, do not report.	C	Student Info> General> Enrollment> Student Days Enrolled		EXT

Appendix