

AZ Ed-Fi Suite v7.3, Data Standard v5.2: Student Section Associations (SY 25-26)

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Summary

This association indicates the course sections to which a student is assigned.

Object Triggering Logic

Action	Business Rule(s)
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Post	<p>Reports a record when a student is scheduled into a section.</p> <ul style="list-style-type: none">• A record is only reported for Enrollments and Section Rosters in the same School Year as the Ed-Fi Connection sending the record.<ul style="list-style-type: none">◦ School Year dates are defined in School Year Setup.<ul style="list-style-type: none">▪ 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:<ul style="list-style-type: none">◦ Enrollment State Exclude◦ Enrollment No Show◦ Enrollment Grade Exclude from State Reporting◦ Course is inactive (Active is unchecked)◦ Course State Exclude◦ Course State Code is NULL◦ Calendar Exclude◦ School Exclude• A record will report for each unique term the student is rostered into.• The student must have an enrollment in the schedule structure where the student is scheduled to report a record.
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Delete /Post	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.
Put	<ul style="list-style-type: none"> When the following information on the student's Roster is changed: <ul style="list-style-type: none"> Start Date End Date Dual Credit When the following information on the Section is changed: <ul style="list-style-type: none"> Section Placement (Terms the Section is offered) Dual Credit When the following information on the Course is changed: <ul style="list-style-type: none"> Dual Credit Post Secondary When the following information on the student's Transcript is changed: <ul style="list-style-type: none"> Credits Earned Credits Attempted End Year When the following information on the student's Enrollment is changed: <ul style="list-style-type: none"> End Date Changes to Resource Preferences mappings do NOT trigger. A manual resync must be performed on the resource if mappings are changed.
Delete	<ul style="list-style-type: none"> When the student is removed from the roster entirely. When the student is now excluded in any way. Delete any future records when the student is given a roster end date. Delete any past records when the student's roster start date is changed. 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:

- Students
- Student School Associations

- Sections

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. <ul style="list-style-type: none">• 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. <ul style="list-style-type: none">• 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.

<p>403: Authorization denied. The claim does not have any established relationships with the requested resource.</p>	<p>The key/secret being used does not have permission to send a record for the resource / referenced resource.</p> <ul style="list-style-type: none"> • 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.
<p>404: Failed to delete 'RESOURCE'. Record does not exist.</p>	<p>The attempt to delete a specific Ed-Fi record ID in the ODS failed because it did not exist.</p> <ul style="list-style-type: none"> • This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again.
<p>409: A natural key conflict occurred when attempting to create a new resource 'RESOURCE' with a duplicate key.</p>	<p>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.</p> <ul style="list-style-type: none"> • Check for duplicate data in your Campus site. If no duplicate data can be found, report the issue to Campus Support. <ul style="list-style-type: none"> ◦ 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.
<p>409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the 'RESOURCE' entity.</p>	<p>The resource that the application is attempting to delete is referenced from another entity.</p> <ul style="list-style-type: none"> • 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.	<p>Something unexpected happened and no specific error message could be returned.</p> <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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.

	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)	<p><i>Month, day, and year of the student's entry or assignment to the section.</i></p> <hr/> <p>Reports the Roster Start Date.</p> <ul style="list-style-type: none"> If NULL, reports the Term Start Date. 	M	Section	Roster .startDate Term .startDate	✓

2	sectionReference (reference)	<p>A reference to the Sections resource associated with the Student Section Association being reported.</p> <hr/> <p>Reports the fields that are part of the Natural Key for the Sections resource.</p>	M	N/A	N/A	✓
3	studentReference (reference)	<p>A reference to the Students resource associated with the Student Section Association being reported.</p> <hr/> <p>Reports the fields that are part of the Natural Key for the Students resource.</p>	M	N/A	N/A	✓
4	dualCreditIndicator (boolean)	<p>Indicates whether the student assigned to the section is to receive dual credit upon successful completion.</p> <hr/> <ul style="list-style-type: none"> Report True if: <ul style="list-style-type: none"> Dual Credit checkbox is checked on Course. Dual Credit checkbox is checked on Section. Dual Credit checkbox is checked on Roster Batch Edit. The most recent Section Student Detail record has a value of Y: Yes for Dual Credit. Report False in all other situations. 	M	Course Section Section Student Detail	Course .dualCredit Section .localDualCredit Roster .status SectionStudentDetail .value	✗

5	endDate (date)	<p><i>Month, day, and year of the withdrawal or exit of the student from the section.</i></p> <hr/> <p>Reports the Roster End Date.</p> <ul style="list-style-type: none">• If Roster End Date is NULL, only report the Section's End Date if the student's Grade is 9-12 AND the Current Date is on or after the Term End Date.• Do not report in all other situations.	C	Section	Roster .endDate Term .endDate	
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6	courseEntryDescriptor (string)	<p><i>The way the student entered this course section, either as a new enrollee or as a transfer from another section at the same school</i></p> <hr/> <ul style="list-style-type: none"> • Report N (New Enrollment) if the Roster Start Date is NULL or the same as the Section's Start Date. • Report T (Transferred) if the student transferred into the section from a different section of the same course. <ul style="list-style-type: none"> ◦ The course must be the same, but the section must be different. ◦ The current Roster Start Date must be after the Section Start Date. ◦ The prior Roster Start Date must have a date that is before the current Roster Start Date. <ul style="list-style-type: none"> ▪ The prior Roster Start Date cannot be NULL. ▪ If the current Roster Start Date is NULL, we use the current Section's Start Date. ◦ The prior Roster End Date is NULL OR on or after the current Section's Start Date. • Report R (Re-Entry) if the student left the section but returned at a later date. <ul style="list-style-type: none"> ◦ The course and section must be the same. ◦ There must be multiple Roster records in the same section. ◦ The current Roster Start Date must be after the prior Roster Start Date. • Report N (New Enrollment) in all other situations. 	M	Section	Roster .startDate	EXT
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7	courseExitDescriptor (<i>string</i>)	<p><i>The type of exit the student had from this course section</i></p> <hr/> <ul style="list-style-type: none"> • If the student has an associated Transcript record posted using the Transcript Post tool AND the Roster End Date <= the Section's End Date OR If the student is in Grades 9-12 AND the Current Date is >= the Section's End Date: <ul style="list-style-type: none"> ◦ Report CF (Content Complete - Full Credit) if Credits Attempted = Credits Earned. ◦ Report CP (Content Complete - Partial Credit) if Credits Attempted > Credits Earned. ◦ Report LS (Left the School) if Credits Earned = 0 AND the Roster End Date = Last Day of Enrollment. ◦ Report CN (Content Complete - No Credit/Academic Progress) in all other situations. • If the student only has a Roster End Date with no associated Transcript record that was posted using the Transcript Post tool: <ul style="list-style-type: none"> ◦ Report LS (Left the School) if Roster End Date = Last Day of Enrollment. ◦ Report SC (Schedule Change) in all other situations. <p>Notes:</p>	C	Section	Roster .endDate	EXT
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		<ul style="list-style-type: none"> This will only report on the last term record for the student in the section. <ul style="list-style-type: none"> Example: If this is a semester-based course with two student section association records, only the "second semester" record will post this data element. 				
8	concurrentEnrollment (<i>boolean</i>)	<p><i>A flag indicating if this student is concurrently enrolled in a course that offers concurrent enrollment</i></p> <hr/> <ul style="list-style-type: none"> Report True if the Post Secondary checkbox is checked. Report False in all other situations. 	M	Course	CustomCourse . value	EXT
9	attemptStatusDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
10	homeroomIndicator	This is optional, does not report.	O	N/A	N/A	N/A
11	repeatIdentifierDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
12	teacherStudentDataLinkExclusion	This is optional, does not report.	O	N/A	N/A	N/A

Appendix