

# **KS Ed-Fi Suite v3.6.2, Data Standard v4.0: Student Section Associations**

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## Summary

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

## Object Triggering Logic

Action	Business Rule(s)
Post	<p>When a student is scheduled into a course section in the configured year.</p> <ul style="list-style-type: none"><li>• A record will report per eligible Sessions record attributed to the Section/Student Roster Dates.</li><li>• A record will report for each Section record that is reported based on the Sections logic.</li><li>• Do not report a record if the any of the following exclusions are present:<ul style="list-style-type: none"><li>◦ Calendar Exclude</li><li>◦ School Exclude</li><li>◦ Course Inactive</li><li>◦ Enrollment No Show</li></ul></li></ul>

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"><li>• When any of the following information is changed on Roster:<ul style="list-style-type: none"><li>◦ Roster ID (New Roster Entry)</li><li>◦ Start Date</li><li>◦ End Date</li></ul></li><li>• When any of the following information is changed on Enrollment:<ul style="list-style-type: none"><li>◦ Enrollment ID (New Enrollment)</li><li>◦ Start Date</li><li>◦ End Date</li><li>◦ No Show</li></ul></li><li>• Changes to Resource Preferences mappings <b>do NOT trigger</b>. A manual resync must be performed on the resource if mappings are changed.</li></ul>
Delete	<ul style="list-style-type: none"><li>• When the Student is excluded in some way.</li><li>• When the Enrollment is deleted.</li><li>• When the Enrollment dates no longer overlap the configured year.</li><li>• When the Roster record is deleted.</li></ul>

## Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Students
- Sessions
- Course Offerings
- Sections

## Dependent Resources (Downstream)

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

- Student Section Attendance Events
- Grades

## 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 ' <b>RESOURCE</b> ' failed. <b>FIELD</b> is required.	An element of the JSON that is required is missing and needs to be added. <ul style="list-style-type: none"><li>• Double check that all bolded data elements below are reporting a valid value and no data elements below are reporting an invalid value.</li></ul>
400: ' <b>RESOURCE</b> ' failed. <b>RESOURCE</b> reference could not be resolved.	A resource that was referenced from a difference resource does not yet exist. <ul style="list-style-type: none"><li>• 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.</li></ul>

<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"> <li>• Double check your API credentials (key/secret). Sometimes specific keys/secrets cannot report specific resources.</li> <li>• 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.</li> <li>• 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.</li> </ul>
<p>404: Failed to delete '<b>RESOURCE</b>'. 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"> <li>• This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again.</li> </ul>
<p>409: A natural key conflict occurred when attempting to create a new resource '<b>RESOURCE</b>' 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"> <li>• 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"> <li>◦ 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.</li> </ul> </li> </ul>
<p>409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the '<b>RESOURCE</b>' entity.</p>	<p>The resource that the application is attempting to delete is referenced from another entity.</p> <ul style="list-style-type: none"> <li>• Use the Delete Tool to delete the referenced resource in the error message. Then retry the delete on the original resource that errored.</li> </ul>

500: Internal Server Error.	<p>Something unexpected happened and no specific error message could be returned.</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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"> <li>◦ There is a chance that Campus Ed-Fi code is sending an invalid JSON request resulting in the 500 error.</li> <li>◦ There is a chance that an Ed-Fi Data Standard / API bug is causing the issue.</li> <li>◦ Investigation is needed in these cases as there are many different potential causes.</li> </ul> </li> </ul>
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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	<b>beginDate</b> (date)	<p><i>Month, day, and year of the student's entry or assignment to the section.</i></p> <hr/> <p>Reports the latest of the <b>Term Start Date</b> or the <b>Roster Start Date</b>.</p>	M	<p>Section Roster</p> <p>Term Setup</p>	<p>Roster .startDate</p> <p>Term .startDate</p>	✓
2	<b>sectionReference</b> (reference)	<p><i>A reference to the Sections resource associated with the Student Section Associations being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Sections resource.</p>	M	N/A	N/A	✓
3	<b>studentReference</b> (reference)	<p><i>A reference to the Students resource associated with the Student Section Associations being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Students resource.</p>	M	N/A	N/A	✓

4	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 earliest of the <b>Term End Date</b> or the <b>Roster End Date</b>.</p>	O	<p>Section Roster</p> <p>Term Setup</p>	<p>Roster .endDate</p> <p>Term .endDate</p>	✓
5	homeroomIndicator (boolean)	<p><i>Indicates the section is the student's homeroom. Homeroom period may the convention for taking daily attendance.</i></p> <hr/> <ul style="list-style-type: none"> <li>• Report <b>True</b> if the Homeroom checkbox is checked on the Section or Course the student is associated to.</li> <li>• Report <b>False</b> in all other situations.</li> </ul>	O	<p>Course Information</p> <p>Section Information</p>	<p>Course .homeroom</p> <p>Section .homeroomSection</p>	✓
6	courseStatusDescriptor (string)	<p><i>Indication of the student's status in the course.</i></p> <hr/> <p>If a final grade is posted AND</p> <ul style="list-style-type: none"> <li>• Grade is passing, report <b>Completed (Pass)</b></li> <li>• Grade is not passing, report <b>Completed (Fail)</b></li> </ul> <p>Else if a final grade is not posted AND</p> <ul style="list-style-type: none"> <li>• Roster End Date is null OR <math>\geq</math> the latest Term End Date, report <b>Enrolled</b></li> <li>• Roster End Date <math>&lt;</math> the latest Term End Date, report <b>Exited before course completion</b></li> </ul>	M	<p>Calculated:</p> <p>Course/Section &gt; Course &gt; Section &gt; Grading By Task &gt; Task &gt; Student &gt; Score</p>		EXT



7	attemptStatusDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
8	repeatIdentifierDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
9	teacherStudent DataLinkExclusion	This data element is optional and does not report.	O	N/A	N/A	N/A

## Appendix

### Type/Descriptors

courseStatusDescriptor

Code Value	Description	Name Space	Short Description
Completed (Fail)	Completed (Fail)	<a href="uri://ksde.org/CourseStatusDescriptor">uri://ksde.org/CourseStatusDescriptor</a>	Completed (Fail)
Completed (Pass)	Completed (Pass)	<a href="uri://ksde.org/CourseStatusDescriptor">uri://ksde.org/CourseStatusDescriptor</a>	Completed (Pass)
Enrolled	Enrolled	<a href="uri://ksde.org/CourseStatusDescriptor">uri://ksde.org/CourseStatusDescriptor</a>	Enrolled
Exited before course completion	Exited before course completion	<a href="uri://ksde.org/CourseStatusDescriptor">uri://ksde.org/CourseStatusDescriptor</a>	Exited before course completion