NE Ed-Fi Suite v7.3, Data Standard v5.2: Sections

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Summary

This entity represents a setting in which organized instruction of course content is provided, in-person or otherwise, to one or more students for a given period of time. A course offering may be offered to more than one section.

Object Triggering Logic

Action	Business Rule(s)

Post	- When a section is created and saved - When Section Placement is changed on a section 1 record will report for each Section and Term Type combination - Do not send records if the Calendar Exclude check box is checked - Do not send records if the course is marked inactive or State Exclude - Do not send if the School Exclude check box is checked - When the Secondary School field on Calendar is populated, report information from this new school as an override to the current school. - When the Local Course Number or Term type is changed
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 fields listed below are changed: - When the SCED Seq Number is changed and saved on the Course editor - When the Instructional Setting is changed and saved on a section - When the Credit field is changed and saved on a Grading Task assigned to the course - When the Teacher Number field is changed and saved on a Rule 18 student transcript - When the Local Course Number or Term type Override is changed

Delete	• When a section is deleted
	• When Section Placement is changed or removed and saved on a section
	Note: If a student has a Rule 18 Programs Fact record in the configuration year, a Rule 18 session will be created. Reference the Rule 18 logic below. Otherwise, reference the Regular section.

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Schools
- Course Offerings
- Locations
- Class Periods

Dependent Resources (Downstream)

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

- Student Section Associations
- Student Section Attendance Events
- Staff Section Associations

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. 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	**id**	*The unique identifier of the resource.*	M			Preview unavailable
2	**sectionIdentifier**	*The local identifier assigned to a section.* 1. Reports the section ID of the section being reported	M			Preview unavailable
3	**courseOfferingReference**	*A reference to the related CourseOffering resource*	M			Preview unavailable
4	locationReference	*A reference to the related Location resource* 1. Reports the fields that are part of the Natural Key for the Locations resource	O			Preview unavailable

5	**locationSchoolReference**	*A reference to the related School resource* 1. Reports the fields that are part of the Natural Key for the School resource	M			Preview unavailable
6	**sequenceOfCourse**	*When a section is part of a sequence of parts for a course, the number if the sequence. If the course has only onle part, the value of this section attribute should be 1* 1. Report the value selected in the SCED Sequence "Part n" field. 2. If NULL, report '1'	M			Preview unavailable

Regular

Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✅ / ❌ / EXT)

deliveries	*Reports the Course Delivery Model* Course Delivery Model can be found on course or section. 1. Report the value from course> course delivery model. 2. If Section> Course Delivery Model is populated, override and send from section for those particular sections marked. All else, report what is on course.	O	Course>Delivery Model Section>Delivery Model		EXT
courseStaffIdOverride	*Reports a contracted teacher that is not paid by the district and are teaching courses.* 1. When populated, report the Teacher Override field.	O	Schedule > Courses Schedule > Courses > Sections		EXT

Rule 18

Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	Uses Template Logic (✅ / ❌ / EXT)
sectionIdentifier	*The unique identifier of the resource.*	M			Preview unavailable

courseStaffIdOverride	*Reports the teacher number of the teacher teaching the course in the Interim-Program school.* <hr> 1. Reports the Teacher Number specified on the Transcript	M		Transcript >Teacher Number	EXT

Appendix