KS Ed-Fi Suite v3.6.2, Data Standard v4.0: Student School Food Service Program Associations

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Table of Contents

Summary

This association represents the school food services program(s), such as the Free or Reduced Lunch Program, that a student participates in or from which the Student receives services.

Object Triggering Logic

Action	Business Rule(s)
Post	When a student has a FRAM record which overlaps their Enrollment in the configured year and student has a State Eligibility Code > 0. • Do not report a record if the any of the following exclusions are present: ○ Enrollment No Show ○ Enrollment State 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 • When any of the following information is changed on FRAM Eligibility records: ○ FRAMID (New FRAM record) ○ Start Date ○ End Date ○ Eligibility
Delete	• When the associated Enrollment is deleted. • When the associated Enrollment is made to no longer overlap the configured year. • When the associated Enrollment is marked as No Show or State Exclude. • When the FRAM Eligibility record is deleted. • When the FRAM Eligibility record is made to no longer overlap the configured year.

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Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Local Education Agencies (Pre-Populated)
- Students
- Programs (Pre-Populated)

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.

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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.

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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	**beginDate** (*date*)	The month, day, and year on which the Student first received services. Report the latest of the FRAM Record Start Date and the student's Enrollment Start Date in the config year • If multiple enrollments exist for the student in the current config year, report the Start Date of the primary active enrollment record.	M	Eligibility	POSEligibility .startDate Enrollment. startDate	✖

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| 2 | **educationOrganizationReference** (*reference*) | *A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Student School Food Service Program Association being reported.* | M | School Information

Enrollment | N/A | ❌ |
| | | Reports the fields that are part of the Natural Key for the Local Education Agencies resource.

• educationOrganizationId = **Ed Fi School ID of the Accountability School**
  ○ Report from Enrollment Override location
    ■ educationOrganizationId = District Number (First 5 digits of the Ed-Fi School ID associated with the Enrollment) \|\| AYP School Override 1
  ○ If Override location is NULL, report State School Number | | | | |

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| 3 | **programReference** (*reference*) | *A reference to the Programs resource associated with the Student School Food Service Program Association being reported*

Report the Natural Key from the Programs resource.

• educationOrganizationId = **Ed Fi School ID of the Accountability School**
   ○ Report from Enrollment Override location
      ■ educationOrganizationId = District Number (First 5 digits of the Ed-Fi School ID associated with the Enrollment) \|\| AYP School Override 1
   ○ If Override location is NULL, report State School Number
• programName = Student School Food Service
• programTypeDescriptor = Student School Food Service | M | School Information

Enrollment | N/A | ❌ |
| 4 | **studentReference** (*reference*) | *A reference to the Students resource associated with the Student School Food Service Program Association being reported.*

Reports the Natural Key for the Student resource

• studentUniqueID reports from the Student State Id field | M | N/A | N/A | ❌ |

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5	endDate (*date*)	*The month, day, and year on which the student exited the program or stopped receiving services.* Reports the **Eligibility End Date**. • Does not report if the Eligibility End Date is NULL.	M	Eligibility	POSEligibility .endDate	✅
6	schoolFoodServiceProgramServices (*array*)	*An unordered collection of studentSchool FoodService ProgramAssociation SchoolFood ServiceProgram Services. Indicates the service(s) being provided to the student by the school food service program.* Reports the following data elements in an array: • schoolFoodServiceProgramServiceDescriptor ○ Reports the Ed-Fi Descriptor Code associated with the calculated State Eligibility Code. 	1	Reduced Price Lunch - Direct Certification
2	Free Lunch - Direct Certification
3	Reduced Price Lunch - Household Economic Survey
4	Free Lunch - Household Economic Survey		M	FRAM	POSEligibility .eligibility Fram. eligibility	❌

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- The following data elements do not report:
  - primaryIndicator
  - serviceBeginDate
  - serviceEndDate

Logic for determining State Eligibility Code:

- State Eligibility Code = 1 when the following is set up:
  - Eligibility = 'Reduced'
  - AND Source = 'Direct'
    - OR Source = 'Non-Direct'
    - AND Certified Type != 'Socioeconomic Status'
- State Eligibility Code = 2 when the following is set up:
  - Eligibility = 'Free'
  - AND Source = 'Direct'
    - OR Source = 'Non-Direct'
    - AND Certified Type != 'Socioeconomic Status'
- State Eligibility Code = 3 when the following is set up:
  - Eligibility Type = 'SES'
  - AND Eligibility = 'Reduced'
  - AND Source = 'Non-Direct'
  - AND Certified Type = 'Socioeconomic Status'
- State Eligibility Code = 4 when the following is set up:
  - Eligibility Type = 'SES'
  - AND Eligibility = 'Free'
  - AND Source = 'Non-Direct'
  - AND Certified Type = 'Socioeconomic Status'

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7	directCertification	This data element is optional and does not report.	O	N/A	N/A	N/A
8	participationStatus	This data element is optional and does not report.	O	N/A	N/A	N/A
9	programParticipationStatuses	This data element is optional and does not report.	O	N/A	N/A	N/A
10	reasonExitedDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
11	servedOutsideOfRegularSession	This data element is optional and does not report.	O	N/A	N/A	N/A

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Appendix

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