

**AZ Ed-Fi Suite v7.3, Data Standard v5.2: Student School
Food Service Program Associations (SY 25-26)**

March
2025

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

Table of Contents

- [Summary](#)
- [Object Triggering Logic](#)
- [Required Resources \(Upstream\)](#)
- [Dependent Resources \(Downstream\)](#)
- [Error Log](#)
- [Object Data Elements Logic](#)
- [Appendix](#)

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	<p>Report a record when a student has a FRAM record that overlaps an enrollment in the current configured year.</p> <ul style="list-style-type: none">• A record is only reported for FRAM records and Enrollments 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◦ Enrollment Start Status is <i>E: NON-SAIS DISTRICT USE ONLY!</i>◦ Calendar Exclude◦ School Exclude• To report a Student Food Service Program Association record, the FRAM record must meet one of the following criteria:<ul style="list-style-type: none">◦ Originated from an application (POSEligibility.applicationID IS NOT NULL) OR◦ Source = Direct OR◦ Certification Type = Categorical, Homeless, Migrant, Runaway, or Head Start• If there are multiple enrollments, use the following priority list to determine which one should report:<ul style="list-style-type: none">◦ Primary > Partial > SPED◦ Earliest Start Date◦ Latest Enrollment ID
------	--

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 a FRAM record is changed: <ul style="list-style-type: none"> ◦ FRAM Record ID (New FRAM record) ◦ Start Date ◦ End Date ◦ State Eligibility Code • When the following information on an Enrollment is changed: <ul style="list-style-type: none"> ◦ Enrollment ID (New Enrollment) ◦ Start Date ◦ End Date ◦ No Show ◦ State Exclude • 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 enrollment being reported off of is deleted. • When the enrollment is changed to no longer overlap the configured year. • When the student is excluded through their enrollment, calendar, grade level, or school. • When the FRAM record being reported off of is deleted. • When the FRAM record is changed to no longer overlap the enrollment in the current configured year. • 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:

- Local Education Agencies (Pre-populated)
- Schools (Pre-populated)
- Programs (Pre-populated)
- Students

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
N/A - Multiple error messages possible	Arizona pre-populates the Programs resource for each district with the programs offered at that district. If you are receiving a lot of errors on the resource, there is a good chance that you need to communicate with AzEDS to have them pre-populate the Programs resource for your district with the National School Lunch Program and School Breakfast Program program.
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.

<p>400: 'RESOURCE' failed. RESOURCE reference could not be resolved.</p>	<p>A resource that was referenced from a difference resource does not yet exist.</p> <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.
<p>500: Internal Server Error.</p>	<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.



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	<p>beginDate (date)</p>	<p><i>The earliest date the student is involved with the program. Typically, this is the date the student becomes eligible for the program.</i></p> <hr/> <p>Report the latest of the following dates:</p> <ul style="list-style-type: none"> • FRAM Start Date <ul style="list-style-type: none"> ○ Enrollment End Date must be NULL or after FRAM Start Date. ○ If the Enrollment is part of a "ZZZ" chain of enrollments, reports the Enrollment End Date from the LAST enrollment in the "ZZZ" chain. <ul style="list-style-type: none"> ▪ See the "ZZZ" article for more information on specific logic. • Enrollment Start Date <ul style="list-style-type: none"> ○ IEP End Date must be after the Enrollment Start Date. ○ If the Enrollment is part of a "ZZZ" chain of enrollments, uses the Enrollment Start Date from the FIRST enrollment in the "ZZZ" chain. <ul style="list-style-type: none"> ▪ See the "ZZZ" article for more information on specific logic. 	M	<p>FRAM Eligibility</p> <p>Enrollments</p>	<p>POSEligibility . startDate</p> <p>Enrollment . startDate</p>	
2	<p>educationOrganizationReference (reference)</p>	<p><i>A reference to the Schools resource associated with the Student School Food Service Program Associations being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the resource.</p> <ul style="list-style-type: none"> • educationOrganizationId = School Entity ID 	M	School Information	School.entityID	

3	programReference (<i>reference</i>)	<p><i>A reference to the Programs resource associated with the Student School Food Service Program Associations being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Programs resource.</p> <ul style="list-style-type: none"> educationOrganizationId = School Override District Entity ID <ul style="list-style-type: none"> If NULL, uses the District Entity ID programName = National School Lunch Program and School Breakfast Program (Hard-Coded) programTypeDescriptor = NSLP/SBP (Hard-Coded) 	M	District Information	CustomSchool.value INNER JOIN CampusAttribute ON CustomSchool.attributeID = CampusAttribute.attributeID District.entityID	
4	studentReference (<i>reference</i>)	<p><i>A reference to the Students resource associated with the Student School Food Service Program 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	

5	endDate (date)	<p><i>The month, day, and year on which the student exited the program or stopped receiving services.</i></p> <hr/> <p>Report the earliest of the following dates:</p> <ul style="list-style-type: none"> • FRAM End Date • Enrollment End Date <ul style="list-style-type: none"> ◦ If the Enrollment is part of a "ZZZ" chain of enrollments, reports the Enrollment End Date from the LAST enrollment in the "ZZZ" chain. <ul style="list-style-type: none"> ▪ See the "ZZZ" article for more information on specific logic. • Last Instructional Day of the Calendar <p>Notes:</p> <ul style="list-style-type: none"> • The reported endDate should never be before the reported startDate. If you encounter a situation where this is occurring, double-check your data. If the data looks good, contact Campus Support. 	C	FRAM Eligibility Enrollments	POSEligibility . endDate Enrollment . endDate	✘
---	----------------	--	---	-------------------------------------	--	---

6	eligibilitySourceDescriptor (string)	<p><i>Method of certification for meal benefit(s).</i></p> <hr/> <p>Reports in the following priority order:</p> <ul style="list-style-type: none"> • Reports USDA Income Application if the FRAM record being reported off of originated from an application (applicationID is NOT NULL). • Reports Direct Certification if Source is <i>Direct</i>. • Reports Other Source Categorically Eligible if Source is <i>Non-Direct</i> and Certified Type is one of the following values: <ul style="list-style-type: none"> ○ Categorical ○ Homeless ○ Migrant ○ Runaway ○ Head Start ○ Foster 	M	FRAM	<p>POSEligibility . applicationID</p> <p>POSEligibility . directType IS NOT NULL</p> <p>POSEligibility . type = C, H, M, R, HS, F</p>	EXT
7	eligibilityStatusDescriptor (string)	<p><i>Student determination of meal benefit eligibility.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the State Eligibility Code calculated on the FRAM record being reported off of.</p> <ul style="list-style-type: none"> • If State Eligibility Code is NULL on a record that is otherwise eligible to report, report Full Pay. • This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student School Food Service Program Associations resource. 	M	FRAM	POSEligibility . eligibility	EXT
8	directCertification	This is optional, does not report.	O	N/A	N/A	N/A

9	participationStatus	This is optional, does not report.	O	N/A	N/A	N/A
10	programParticipationStatuses	This is optional, does not report.	O	N/A	N/A	N/A
11	reasonExitedDescriptor	This is optional, does not report.	O	N/A	N/A	N/A
12	schoolFoodServiceProgramServices	This is optional, does not report.	O	N/A	N/A	N/A
13	servedOutsideOfRegularSession	This is optional, does not report.	O	N/A	N/A	N/A

Appendix