NE Ed-Fi Suite 3 API v6.2 Data Standard v4.0: Student Early Learning Program Associations

May
2025

NE Ed-Fi Suite 3 API v6.2 Data Standard v4.0: Student Early Learning Program Associations

Table of Contents

Summary

This association relates students participating in an early childhood program to their parents, guardians, or caretakers.

Object Triggering Logic

Action	Business Rule(s)

Transforming K12 Education®

Post	
	• When a Programs Fact tab record is created with a Program Name of either 'ECHEADST' or 'ERLYCHLD', and the record Start Date is not after the students enrollment End Date in the current calendar • Report a record based on the student having an overlapping enrollment record in the calendar that the Program Fact record is aligned to • Do not send a student record for an enrollment that is marked as State Exclude or No Show • Do not send a record if enrollment is in a calendar marked as State Exclude • Do not report any Program Facts records without a Start Date • If there are multiple qualifying early childhood Program Records of either 'ECHEADST' or 'ERLYCHLD', report the one with the latest Start Date • If there are multiple qualifying early childhood Program Records of either 'ECHEADST' or 'ERLYCHLD', with the same Start Date, report the one with the highest record ID. • Do not send a record if enrollment is in a School marked as State Exclude • When a new enrollment is created for a student that has a Program Fact record in the calendar in which the student is enrolled • Enrollment start date must be after Program Fact start date • Program Fact end date must be NULL or after enrollment start date • If the student does not have any Programs Fact ERLYCHLD or ECHEADST record (either because it is not active, or it is non-existant) look at the student's active course roster in the current calendar to see if any Early Childhood value is <>NULL in a section • If the student is rostered into a single section with the Early Childhood value <>NULL, report out based on that record • If the student is rostered into more than one section with the Early Childhood value <>NULL, report out based on the section with the most recent Roster Start Date • If the student is rostered into more than one section with the Early Childhood value <>NULL, and they all have the same Roster Start Date, or the Roster Start Dates are all NULL, report out based on the highest sectionID • If the student has an active Programs Fact record and is rostered in a section with the Early Childhood value <>NULL, report the record from the Program Fact record only. • The course must have a State Course code entered to report • When the Program Name or the Start Date values are changed, we must do a Delete of the old record, and a Post of the new record • The start date can change either from the Programs Fact record or the Roster start date being changed • The Program Name can change either from the Programs Name field on the Programs Fact record or the Early Childhood droplist on the section editor
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. • Update the record if the endDate value in this resource is changed. • Update the record if the roster end date value for the section associated with this record is added or changed.

Transforming K12 Education®

Delete	- When the Program Name or the Start Date values are changed, we must do a Delete of the old record, and a Post of the new record - The start date can change either from the Programs Fact record or the Roster start date being changed - The Program Name can change either from the Programs Name field on the Programs Fact record or the Early Childhood droplist on the section editor - When all enrollments for a calendar that the Program Fact record is aligned to are deleted. - When the Programs Fact record is deleted. - When the roster record is deleted. - When the Early Childhood value is set to null and saved on the section editor

Transforming K12 Education®

Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Programs
- 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
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.

Transforming K12 Education®

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			n/a
2	**educationOrganizaionReference**	*The education organization where the student is participating in or receiving the program services.* 1. Reports the School Number based on the School selected on the School of Assignment on the reporting enrollment a. Use the default value if populated 2. If this field is blank, report the School Number the enrollment is associated with	M			n/a

3	**programReference**	*The program associated with the student.*
		
		1. Reports the Natural Key of the Programs resource
		2. "programReference": {
		    "educationOrganizationId": 0,
		    "programName": "string",
		    "programTypeDescriptor": "string",
			M			n/a

4	**studentReference**	*A unique alpha-numeric code assigned to a student.* 1. Reports the Natural Key of the Students resource	M			n/a

5	**beginDate**	*The month, day, and year on which the student first received services. NEDM: Beginning Date*
		
		1. Report Programs Fact Start Date for reporting record if pulled from Programs Fact tab
		2. Report Course > Section Roster Start date if pulling from Course > Section
		  a. Report Earliest term start date if Roster Start date is NULL
		3. Use enrollment Start Date if if is after Roster Start Date or Programs Fact Start date
		  a. If the student has more than 1 overlapping enrollment in the same calendar with different start dates, use the earliest start date.
			M	Student Information > General > Programs Fact > Start Date
				
				Course > Section > Roster Start Date
				
				Term > Start Date
						n/a

Transforming K12 Education®

6	endDate	*The month, day, and year on which the student exited the program or stopped receiving services. NEDM: Ending Date*
		
		1. Report Programs Fact End Date for reporting record if pulled from Programs Fact tab
		2. Report Course > Section Roster End date if pulling from Course > Section
		  a. Report latest term end date if Roster End date is NULL
		3. Report Enrollment End Date if enrollment is ended prior to the Roster End Date or Program Fact End date
		  a. All overlapping enrollments in that calendar must be ended to report
		  b. If more than 1 enrollment and end dates are not the same, use the highest end date
			C	Student Information > General > Programs Fact > End Date
				
				Course > Section > Roster End Date
				
				Term > End Date
						n/a

7	reasonExitedDescriptor	*A unique identifier used as Primary Key, not derived from business logic, when acting as Foreign Key, references the parent table.* This is optional - do not report.	C			n/a
8	servedOutsideOfRegularSession	*Indicates whether the student received services during the summer session or between sessions.* This is optional - do not report.	O			n/a

Transforming K12 Education®

| 9 | earlyLearningSettingDescriptor | *The setting of the student's participation in the program.*

1. Report the following when reporting from Programs Fact tab:
  a. Reports the Ed-Fi Code from the Participation Info Code selected
  b. Only report values from codes with the 'EC...' prefix; otherwise do not report.
2. Report the following when reporting from the Course Section:
  a. Reports the Ed-Fi Code from the Early Childhood Code selected | C | Student Information > General > Programs Fact > Participation Info Code | | n/a |

Transforming K12 Education®

Appendix

Type/Descriptors - Early Learning Setting Descriptors

Ed-Fi Code Value	Ed-Fi Short Description	Ed-Fi Description
01	NDE Grant Funded Early Childhood Education Program.	Students in state grant funded center- based early childhood education program that has not yet been funded for three consecutive years; not eligible for state aid.
02	Qualified NDE Grant Funded Early Childhood Education Program.	Students in a state grant funded center- based early childhood education program that has been funded for three consecutive years; therefore, four year old students as of July 31 are eligible for state aid.
03	NDE Approved Early Childhood Education Program.	Students in a center-based Rule 11 approved early childhood education program that is not state grant funded and has not been approved for three consecutive years; not eligible for state aid.
04	Qualified NDE Approved Early Childhood Education Program.	Students in a center-based Rule 11 approved early childhood education program that is not state grant funded and has been approved for three consecutive years; therefore, four year old students as of July 31 are eligible for state aid.
05	Early Childhood Birth to Age 3 Endowment Grant Program.	Students age birth to age 3 served in a center-based program or a home visitation program or a combination of the two programs. Applies only to public school districts receiving an Early Childhood Birth to Age 3 Endowment Grant.
06	Home-based Early Childhood Education Program.	Students age birth to kindergarten entrance age served in a home visitation program.

Transforming K12 Education®

Transforming K12 Education®