

IN Ed-Fi Suite v7.3, Data Standard v5.2: Cohorts

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Summary

This entity represents any type of list of designated students for tracking, analysis, or intervention.

Object Triggering Logic

Action	Business Rule(s)
Post	Report a record when a Program mapped to an Ed-Fi Code is created and saved. • Programs are created in Program Setup. Programs must be set up with a code of "COHORT" ◦ Note: User entered field. Must be entered as COHORT to report. • Programs are mapped in the Resource Preferences of the Ed-Fi Connection under the Cohorts resource. ◦ All mapped Programs will report regardless of the School Year they were created in.

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	• When any of the following information is changed on Program Setup: ◦ Program ID (New Program) ◦ Description ◦ Program Category • Changes to Resource Preferences mappings do NOT trigger. A manual resync must be performed on the resource if mappings are changed.
Delete	• When a Program is deleted. • 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

Dependent Resources (Downstream)

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

- Staff Cohort Associations
- Student Cohort 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.
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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	cohortIdentifier (<i>string</i>)	<i>The name or ID for the cohort.</i> Reports the Program ID .	M	Student Info > Program Admin > Program Setup	Program . programID	✓

2	educationOrganizationReference (reference)	<i>A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Cohort being reported.</i> Reports the fields that are part of the Natural Key for the Education Organization resource. If the Cohort being reported is state wide or district based, - educationOrganizationId = 10 + State District Number + 0000 Else if the Cohort being reported is school based, - educationOrganizationId = 10+ State District Number + State School Number	M	District Information School Information Program Setup	Program.isDistrict Program.stateManaged	✖
3	cohortDescription (string)	<i>The description of the cohort and its purpose.</i> Reports the Description. Does not report if NULL.	O	Program Setup	Program . description	✔

4	cohortScopeDescriptor (string)	<i>The scope of cohort (e.g., school, district, classroom).</i> If the Cohort is a State wide cohort (Program.stateManaged = true), report Statewide Else if the Cohort is District based (Program.isDistrict), report District Else, report School	O	Program Setup	Program.isDistrict Program.stateManaged	✗
5	cohortTypeDescriptor (string)	<i>The type of cohort (e.g., academic intervention, classroom breakout).</i> Reports the Ed-Fi Code mapped to the Program Category • Program Categories must be added to the Attribute Dictionary before being assigned to a program (Programs > Program Category). • Programs must be set up with a Code of COHORT (Program Administration > Program Setup) to report. • Does not report a record if NULL or not mapped.	M	Program Administration Ed-Fi > Configuration	N/A	✓
6	academicSubjectDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
7	programs	This data element is optional and does not report.	O	N/A	N/A	N/A

Appendix

Cohort Type Descriptor

Code Value	Description	Namespace	Short Description
Academic Intervention	Academic Intervention	uri://ed-fi.org/CohortTypeDescriptor	Academic Intervention
Attendance Intervention	Attendance Intervention	uri://ed-fi.org/CohortTypeDescriptor	Attendance Intervention
Counselor List	Counselor List	uri://ed-fi.org/CohortTypeDescriptor	Counselor List
Principal Watch List	Principal Watch List	uri://ed-fi.org/CohortTypeDescriptor	Principal Watch List
Multilingual Learner Cohort	Multilingual Learner Cohort	uri://doe.in.gov/CohortTypeDescriptor	Multilingual Learner Cohort
Special Education Case Load	SE Case Load	uri://doe.in.gov/CohortTypeDescriptor	Special Education Case Load
State Graduation Cohort	State Graduation Cohort	uri://doe.in.gov/CohortTypeDescriptor	State Graduation Cohort

Cohort Scope Descriptor

Code Value	Description	Namespace	Short Description
District	District	uri://ed-fi.org/CohortScopeDescriptor	District
School	School	uri://ed-fi.org/CohortScopeDescriptor	School
Statewide	Statewide	uri://ed-fi.org/CohortScopeDescriptor	Statewide