

Core Ed-Fi Suite v3.6.1, Data Standard v4.0: Learning Standards

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Summary

A statement that describes a specific competency or academic standard.

Object Triggering Logic

Action	Business Rule(s)
Post	<p>Report a record when a Standard is added to a Course.</p> <ul style="list-style-type: none"> • A Standard Group associated with the Standard must be mapped to an Academic Subject Descriptor in Resource Preferences in the Learning Standards resource for a Learning Standards record to be able to send. • At least one Grade Level associated to the Calendar the Course is in must be mapped to an Ed-Fi Code in Resource Preferences in the Grade Levels resource for a Learning Standards record to be able to send. • A record is only reported for Learning Standards 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"> ◦ Standard Archived

<p>Delete /Post</p> <p>Put</p>	<p>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.</p> <ul style="list-style-type: none"> • When any of the following information is changed on Course Standards: <ul style="list-style-type: none"> ◦ Standard ID (New Standard) • When any of the following information is changed on Standards: <ul style="list-style-type: none"> ◦ Standard ID (New Standard) ◦ Archived ◦ Parent • Changes to Resource Preferences mappings do NOT trigger. A manual resync must be performed on the resource if mappings are changed.
<p>Delete</p>	<ul style="list-style-type: none"> • When the Standard is deleted. • When the Standard is archived. • When all Courses in the Calendar no longer have the Standard associated to them. • 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:

- Learning Standards

Dependent Resources (Downstream)

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

- Learning Standards
- Grades

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.	<p>An element of the JSON that is required is missing and needs to be added.</p> <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.
400: ' RESOURCE ' failed. RESOURCE reference could not be resolved.	<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.

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	academicSubjects (<i>array</i>)	<p><i>An unordered collection of learningStandardAcademicSubjects. Subject area for the learning standard.</i></p> <hr/> <p>Reports the following data elements in an array:</p> <ul style="list-style-type: none"> academicSubjectDescriptor <ul style="list-style-type: none"> Reports the Ed-Fi Code mapped to the closest Standard Group the Standard being reported is in. <ul style="list-style-type: none"> This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Learning Standards resource. 	M	CurriculumStandard	CurriculumStandard.standardID	✓

2	gradeLevels (array)	<p><i>An unordered collection of learningStandardGradeLevels. The grade levels for the specific learning standard.</i></p> <hr/> <p>Reports the following data elements in an array:</p> <ul style="list-style-type: none"> • gradeLevelDescriptor <ul style="list-style-type: none"> ◦ Reports the Ed-Fi Code mapped to the value selected for each unique Grade Level associated with the Calendars with Courses the Standard is used in. <ul style="list-style-type: none"> ▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Grade Levels resource. 	M	Grade Level Setup	GradeLevel .name	✓
3	learningStandardId (string)	<p><i>The identifier for the specific learning standard (e.g., 111.15.3.1.A).</i></p> <hr/> <p>Reports the Task ID of the Standard.</p> <ul style="list-style-type: none"> • This cannot be seen on the User Interface. It can only be accessed through the Database or Ad-Hoc Reporting. 	M	Standards Bank	GradingTask .taskID	✓

4	parentLearningStandardReference (reference)	<p><i>A reference to the Learning Standards resource associated with the Learning Standard being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Learning Standards resource.</p> <ul style="list-style-type: none"> • Only reports for child-level Learning Standards that have a reported parent-level Learning Standard. 	O	N/A	N/A	
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5	description (<i>string</i>)	<p><i>The text of the statement. The textual content that either describes a specific competency such as "Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions." or describes a less granular group of competencies within the taxonomy of the standards document, e.g. "Understand and apply the Pythagorean Theorem," or "Geometry".</i></p> <hr/> <p>Reports a combination of the Abbreviation and the Display Name.</p> <ul style="list-style-type: none"> • If there are more than 1024 characters, reports the first 1021 characters and "...". 	M	Standards Bank	GradingTask . abbreviation, .name	✔
6	namespace (<i>string</i>)	<p><i>The namespace of the organization or entity who governs the standard. It is recommended the namespaces observe a URI format and begin with a domain name under the governing organization or entity control.</i></p> <hr/> <p>Reports uri://infinitecampus.com /LearningStandard.</p>	M	N/A	N/A	✔

7	contentStandard	This data element is optional and does not report.	O	N/A	N/A	N/A
8	courseTitle	This data element is optional and does not report.	O	N/A	N/A	N/A
9	identificationCodes	This data element is optional and does not report.	O	N/A	N/A	N/A
10	learningStandardCategoryDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
11	learningStandardItemCode	This data element is optional and does not report.	O	N/A	N/A	N/A
12	learningStandardScopeDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
13	prerequisiteLearningStandards	This data element is optional and does not report.	O	N/A	N/A	N/A
14	successCriteria	This data element is optional and does not report.	O	N/A	N/A	N/A
15	uri	This data element is optional and does not report.	O	N/A	N/A	N/A

Appendix