

# **Core Ed-Fi Suite v3.6.1, Data Standard v4.0: Student Language Instruction Program Associations**

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# Core Ed-Fi Suite v3.6.1, Data Standard v4.0: Student Language Instruction Program Associations

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## Summary

This association represents the Title III Language Instruction for Limited English Proficient and Immigrant Students program(s) that a student participates in or from which the student receives services.

## Object Triggering Logic

Action	Business Rule(s)
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Post	<p>Reports a record when a student with an Enrollment in the current configured year has an EL Program with a Status of EL <b>OR</b> a Status of Exited EL and the First Year Monitoring or Second Year Monitoring dates overlap the configured year (today's date is used to determine status).</p> <ul style="list-style-type: none"><li>• A record is only reported for EL records and Enrollments in the same School Year as the Ed-Fi Connection sending the record.<ul style="list-style-type: none"><li>◦ School Year dates are defined in School Year Setup.<ul style="list-style-type: none"><li>▪ If Start Date is NULL, 07/01/StartYear will be used.</li><li>▪ If End Date is NULL, 06/30/EndYear will be used.</li></ul></li></ul></li><li>• Do not report a record if the any of the following exclusions are present:<ul style="list-style-type: none"><li>◦ Enrollment No Show</li><li>◦ Calendar Exclude</li><li>◦ School Exclude</li></ul></li></ul>
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<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"> <li>• When any of the following information is changed on Enrollments:             <ul style="list-style-type: none"> <li>○ Enrollment ID (New Enrollment)</li> <li>○ Start Date</li> <li>○ End Date</li> <li>○ No Show</li> </ul> </li> <li>• When any of the following information is changed on English Learners (EL) records:             <ul style="list-style-type: none"> <li>○ LEP ID (New LEP record)</li> <li>○ Status</li> <li>○ Identified Date</li> <li>○ Program Exit Date</li> </ul> </li> <li>• When any of the following information is changed on English Learners (EL) Services records:             <ul style="list-style-type: none"> <li>○ LEP Service ID (New LEP Service record)</li> <li>○ Start Date</li> <li>○ End Date</li> <li>○ Service Type</li> <li>○ Parent Refused Services</li> </ul> </li> <li>• When any of the following information is changed on Assessment Results:             <ul style="list-style-type: none"> <li>○ Assessment Score ID (New Assessment Score record)</li> <li>○ Reason Code</li> <li>○ Result</li> <li>○ Date</li> </ul> </li> <li>• Changes to Resource Preferences mappings <b>do NOT trigger</b>. A manual resync must be performed on the resource if mappings are changed.</li> </ul>
<p>Delete</p>	<ul style="list-style-type: none"> <li>• When the associated Enrollment is deleted.</li> <li>• When the associated Enrollment is made to no longer overlap the configured year.</li> <li>• When the associated Student is now excluded in some way.</li> <li>• When the EL record is deleted.</li> <li>• When the EL record is made to no longer match reporting criteria shown above.</li> <li>• When a record is in the Ed-Fi Identity Mapping Report but cannot be found on the Campus site.</li> </ul>

## Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Local Education Agencies
- Students
- Programs

## 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 ' <b>RESOURCE</b> ' failed. <b>FIELD</b> 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"> <li>• Double check that all bolded data elements below are reporting a valid value and no data elements below are reporting an invalid value.</li> </ul>
400: ' <b>RESOURCE</b> ' failed. <b>RESOURCE</b> 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"> <li>• 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.</li> </ul>

<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"> <li>• Double check your API credentials (key/secret). Sometimes specific keys/secrets cannot report specific resources.</li> <li>• 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.</li> <li>• 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.</li> </ul>
<p>404: Failed to delete '<b>RESOURCE</b>'. 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"> <li>• This error can be ignored. The ID was cleared from the Ed-Fi Identity Mapping Report and will not attempt to delete again.</li> </ul>
<p>409: A natural key conflict occurred when attempting to create a new resource '<b>RESOURCE</b>' 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"> <li>• 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"> <li>◦ 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.</li> </ul> </li> </ul>
<p>409: The resource (or a subordinate entity of the resource) cannot be deleted because it is a dependency of the '<b>RESOURCE</b>' entity.</p>	<p>The resource that the application is attempting to delete is referenced from another entity.</p> <ul style="list-style-type: none"> <li>• Use the Delete Tool to delete the referenced resource in the error message. Then retry the delete on the original resource that errored.</li> </ul>

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	<b>beginDate</b> (date)	<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>Reports the <b>Identified Date</b>.</p>	M	English Learners (EL)	LEP .startDate	✓
2	<b>educationOrganizationReference</b> (reference)	<p><i>A reference to an Education Organization (Schools, Local Education Agencies, etc.) resource associated with the Student Language Instruction Program Association being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Local Education Agencies resource.</p>	M	N/A	N/A	✓
3	<b>programReference</b> (reference)	<p><i>A reference to the Programs resource associated with the Student Language Instruction Program Association being reported.</i></p> <hr/> <p>Reports the fields that are part of the Natural Key for the Programs resource.</p>	M	N/A	N/A	✓

4	<b>studentReference</b> ( <i>reference</i> )	<p><i>A reference to the Students resource associated with the Student Language Instruction Program Association 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 ( <i>date</i> )	<p><i>The month, day, and year on which the student exited the program or stopped receiving services.</i></p> <hr/> <p>Reports the <b>Program Exit Date</b>.</p> <ul style="list-style-type: none"> <li>Does not report if the Program Exit Date is NULL.</li> </ul>	O	English Learners (EL)	LEP .exitDate	✓
6	englishLanguage ProficiencyAssessments ( <i>array</i> )	<p><i>An unordered collection of studentLanguage InstructionProgram AssociationEnglish LanguageProficiency Assessments. Results of yearly English language assessment.</i></p> <hr/> <p>Reports the following data elements in an array:</p> <ul style="list-style-type: none"> <li>monitoredDescriptor             <ul style="list-style-type: none"> <li>Reports the Ed-Fi Code mapped to First Year Monitoring and Second Year Monitoring.                 <ul style="list-style-type: none"> <li>This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Language Instruction Program Associations resource.</li> </ul> </li> </ul> </li> </ul>	O	English Learners (EL) Assessments Test Setup	LEP .firstYearMonitoring LEP .secondYearMonitoring TestScore .reasonCode TestListItem .passed TestScore .result	✓

- participationDescriptor
  - Reports the Ed-Fi Code mapped to the value selected for **Reason Code** on the student's Assessment record.
    - This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Language Instruction Program Associations resource.
  - Reference the [English Learners \(EL\) Assessment Selection Logic](#) section in the Appendix below for information on how we determine which Assessment to report from.
- proficiencyDescriptor
  - Reports the Ed-Fi Code mapped to the value selected for Result on the student's Assessment record.
    - This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Language Instruction Program Associations resource.
  - Do not report if the Result is NULL or not mapped.
  - Do not report if no valid Assessment can be determined.
  - Reference the [English Learners \(EL\) Assessment Selection Logic](#) section in the Appendix below for information on how we determine which Assessment to report from.
- schoolYearTypeReference
  - Reports the **End Year** of the School Year used in the Ed-Fi Configuration.
- The following data elements do not report:
  - progressDescriptor

7	englishLearnerParticipation (boolean)	<p><i>An indication that an English learner student is served by an English language instruction educational program supported with Title III of ESEA funds.</i></p> <hr/> <ul style="list-style-type: none"> <li>• Reports <b>True</b> if the student has an EL Services record that overlaps the configured year.</li> <li>• Reports <b>False</b> if the student has an EL Services record that overlaps the configured year where Parent Declined is checked.</li> <li>• Reports <b>False</b> in all other situations.</li> </ul>	O	English Learners (EL) Services	<p>LepService .startDate</p> <p>LepService .endDate</p> <p>LepService .parentRefusedServices</p>	✓
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8	languageInstructionProgramServices (array)	<p><i>An unordered collection of studentLanguageInstructionProgram AssociationLanguageInstructionProgram Services. Indicates the service(s) being provided to the student by the language instruction program.</i></p> <hr/> <p>Reports the following data elements in an array for each eligible English Learners (EL) Service that overlaps the configured year:</p> <ul style="list-style-type: none"> <li>• languageInstructionProgramServiceDescriptor             <ul style="list-style-type: none"> <li>◦ Reports the Ed-Fi Code mapped to the value selected for <b>Service Type</b>.                 <ul style="list-style-type: none"> <li>▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Language Instruction Program Associations resource.</li> </ul> </li> </ul> </li> <li>• serviceBeginDate             <ul style="list-style-type: none"> <li>◦ Reports the <b>Service Start Date</b>.</li> </ul> </li> <li>• serviceEndDate             <ul style="list-style-type: none"> <li>◦ Reports the <b>Service End Date</b>.</li> </ul> </li> <li>• The following data elements do not report:             <ul style="list-style-type: none"> <li>◦ primaryIndicator</li> </ul> </li> </ul>	O	English Learners (EL) Services	<p>LepService .lepServiceTypeID</p> <p>LepService .startDate</p> <p>LepService .endDate</p>	✓
9	dosage	This data element is optional and does not report.	O	N/A	N/A	N/A
10	participationStatus	This data element is optional and does not report.	O	N/A	N/A	N/A
11	programParticipationStatuses	This data element is optional and does not report.	O	N/A	N/A	N/A
12	reasonExitedDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
13	servedOutsideOfRegularSession	This data element is optional and does not report.	O	N/A	N/A	N/A

## Appendix

### English Learners (EL) Assessment Selection Logic

1. Determine a list of Assessments that are eligible to report based on having a Test Assessment Type that is mapped in the Resource Preferences of the Ed-Fi Connection under the Student Language Instruction Program Associations resource.
  - a. The Student's Assessment Date must overlap the configured year.
  - b. The Student must have a Result on the Test.
2. If the student has more than one eligible Assessment that overlaps the configured year, use the following priority order to determine which assessment to use:
  - a. Latest Test Date
3. If there are multiple with the same Test Date, the last record sent to the ODS will "win" and be used.