

# AZ Ed-Fi Suite v7.3, Data Standard v5.2: Student Program Attendance Events (SY 25-26)

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## Summary

This event entity represents the recording of whether a student is in attendance to receive or participate in program services.

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## Object Triggering Logic

Action	Business Rule(s)
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Post

Reports a record when a student has a Positive Attendance record for a Course that has a value for 21st CCLC and a value for 21st CCLC Activity Type.

- A record is only reported for Enrollments and Attendance in the same School Year as the Ed-Fi Connection sending the record.
  - School Year dates are defined in School Year Setup.
    - 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:
- Enrollment State Exclude
  - Enrollment No Show
  - Enrollment Grade Exclude from State Reporting
  - Enrollment Start Status is *E: NON-SAIS DISTRICT USE ONLY!*
  - Calendar Exclude
  - School Exclude
- Positive Attendance must be turned on in Positive Attendance Preferences to be able to enter Positive Attendance data.

<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 the following information is changed on Course:             <ul style="list-style-type: none"> <li>◦ 21st CCLC</li> <li>◦ 21st CCLC Activity Type</li> <li>◦ Active</li> <li>◦ State Exclude</li> <li>◦ Positive Attendance</li> </ul> </li> <li>• When the following information is changed on a student's Positive Attendance:             <ul style="list-style-type: none"> <li>◦ Time In</li> <li>◦ Time Out</li> <li>◦ Course</li> </ul> </li> <li>• When the following information is changed on a student's Enrollment:             <ul style="list-style-type: none"> <li>◦ No Show</li> <li>◦ State Exclude</li> <li>◦ Start Date</li> <li>◦ End 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 Positive Attendance is deleted.</li> <li>• When the Course is no longer marked as 21st CCLC.</li> <li>• When the student or course is now excluded in some way.</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:

- Schools (Pre-populated)
- Local Education Agencies (Pre-populated)
- Programs (Pre-populated)
- Students / Student School Associations

### 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>



<p>400: '<b>RESOURCE</b>' failed. <b>RESOURCE</b> 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"> <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>

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.

## 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	<b>attendanceEvent CategoryDescriptor</b> (string)	<p>A code describing the attendance event, for example: Present Unexcused absence Excused absence Tardy.</p> <hr/> <p>Reports <b>3</b> (In Attendance).</p>	M	N/A	N/A	✗
2	<b>eventDate</b> (date)	<p>Date for this attendance event.</p> <hr/> <p>Reports the <b>Date</b> being reported.</p>	M	Attendance	Attendance .date	✗
3	<b>educationOrganizationReference</b> (reference)	<p>A reference to the Schools resource associated with the Student Program Attendance Event being reported.</p> <hr/> <p>Reports the fields that are part of the Natural Key for the Schools resource.</p> <ul style="list-style-type: none"> <li>educationOrganizationId = <b>School Entity ID</b></li> </ul>	M	School Information	School .entityID	✗

4	<p><b>programReference</b> (reference)</p>	<p><i>A reference to the Programs resource associated with the Student Program Attendance Event 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"> <li>• educationOrganizationId = <b>District Entity ID</b> (Override from School Info)             <ul style="list-style-type: none"> <li>◦ If the School Info Override is NULL, reports the <b>District Entity ID</b> from District Info.</li> </ul> </li> <li>• programName = <b>21st CCLC</b></li> <li>• programTypeDescriptor = <b>Support Program</b></li> </ul>	M	N/A	N/A	✘
5	<p><b>studentReference</b> (reference)</p>	<p><i>A reference to the Students resource associated with the Student Program Attendance Event 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	✘

6	activityTimeLogs (array)	<p>Reports the following data elements in an array:</p> <ul style="list-style-type: none"> <li>• activityCode           <ul style="list-style-type: none"> <li>◦ Reports <b>School ID-Activity Descriptor-Course Number-Section ID</b>.               <ul style="list-style-type: none"> <li>▪ School ID will use the <b>School Entity ID</b> from School Information for the School tied to the student's Enrollment.</li> <li>▪ Activity Descriptor will report the Ed-Fi Code mapped to the <b>21st CCLC Activity Type</b> on the Course.</li> <li>▪ Course Number will report the <b>Course Number</b>.</li> <li>▪ Section ID will report the <b>Section ID</b>.</li> </ul> </li> </ul> </li> <li>• attendanceBeginTime           <ul style="list-style-type: none"> <li>◦ Reports the <b>Time In</b> value on the Positive Attendance.</li> </ul> </li> <li>• attendanceEndTime           <ul style="list-style-type: none"> <li>◦ Report the <b>Time Out</b> value on the Positive Attendance.</li> <li>◦ <b>Do not report</b> if Time Out is NULL.</li> </ul> </li> <li>• activityDescriptor           <ul style="list-style-type: none"> <li>◦ Reports the Ed-Fi Code mapped to the value selected on <b>21st CCLC Activity Type</b> on the Course.               <ul style="list-style-type: none"> <li>▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student Program Attendance Events resource.</li> </ul> </li> </ul> </li> </ul>	M	<b>activityCode:</b>  School Information  Course Section  <b>attendance BeginTime / EndTime:</b>  Positive Attendance  <b>activityDescriptor:</b>  Course	<b>activityCode:</b>  School .entityID  Course .activityType , .number  Section .sectionID  <b>attendance BeginTime / EndTime:</b>  Attendance Unit .startTime/  Attendance Unit .endTime  <b>activityDescriptor:</b>  Course .activityType	
7	attendanceEventReason	This is optional, does not report.	O	N/A	N/A	N/A



8	educationalEnvironmentDescriptor	This is optional, does not report.	<input type="radio"/>	N/A	N/A	N/A
9	eventDuration	This is optional, does not report.	<input type="radio"/>	N/A	N/A	N/A
10	programAttendanceDuration	This is optional, does not report.	<input type="radio"/>	N/A	N/A	N/A



## Appendix