GA Ed-Fi Suite v3.6.2, Data Standard v4.0: Student School Attendance Events

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Summary

This event entity represents the recording of whether a student is in attendance on a daily basis at their school.

Object Triggering Logic

Note: Georgia only reports **Negative Attendance**. We do **NOT** report positive attendance in Georgia.

Note 2: Georgia bases attendance off of the Attendance Aggregation Refresh Tool. This tool **MUST BE RUN** before performing a Student School Attendance Events resync. We report out of "summarized" fields that are calculated through a custom SP that K-12 Solutions Group maintains.

Note 3: Any previously reported attendance records that were deleted from the ODS must have a manual resync of Student School Attendance Events to report those attendance records again. Triggers will **NOT** re-post these records unless attendance has changed on the date being reported.

Action	Business Rule(s)

Post	Reports a record when the student was absent for at least half of the day **AND** the associated Enrollment has a Service Type of *P: Primary*.
	
	• 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
	   ◦ Calendar Exclude
	   ◦ School Exclude

	• The Attendance Aggregation Refresh Tool can be run manually or through the automated process that occurs each night.
	
	  ◦ K-12 Solutions Group runs a custom standard procedure (SP) to "summarize" partial enrollment's attendance to their respective school override. We report out of the fields that this SP places values into.
	
	    ▪ sp_summarizeAttendance_GA
	
	  ◦ This custom SP cannot be run manually, rather it occurs at a specific time each day.
	
	• Reports attendance for each school the student has a Student School Association record for.
	
	• The Attendance date must fall on or between enrollment start and end dates to report.
	
	• A record will send for each distinct Date and Attendance Event Category Descriptor.

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. • When any of the following information on the AttDayAggregation table changes: ◦ scheduledMinutes

	◦ absentMinutes ◦ unexcusedAbsentMinutes ◦ unexcusedOnlyAbsentMinutes - When any of the following information on the Enrollment changes: ◦ Start Date ◦ End Date ◦ State Exclude
Delete	- When an enrollment is deleted. - When the attendance data is removed for the day.

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Required Resources (Upstream)

The following resources must be sent prior to this resource:

- Schools (Pre-populated)
- Sessions
- 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.
Referenced sessions resource could not be found. Resync sessions and try again. - Error Log Unable to load some or all Campus records due to missing dependencies. Referenced sessions resource could not be found. Resync sessions and try again. - Ed-Fi Data Tab	This error is occurring because the Sessions resource for whatever School the record is sending under (either Enrollment School or Enrollment School Override if entered) does not exist. Resync Sessions, ensure a record lands, then resync Attendance.

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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.

	Data Element Label	Business Rule(s)	Mandatory (M) Conditional (C) Optional (O)	Data Source GUI Path	Database Field	U T L (E

1	**attendanceEventCategoryDescriptor** (*string*)	*A code describing the attendance event, for example: Present Unexcused absence Excused absence Tardy.*
		
		• Reports **Unexcused Absence** when there are more "Unexcused" minutes than "Excused" minutes.
		  • Unexcused minutes are minutes attributed to attendance codes with a Status of "*Absent*" and an Excuse of "*Unexcused*".
		• Reports **Excused Absence** when there are more "Excused" minutes than "Unexcused" minutes.
		  • Excused minutes are minutes attributed to attendance codes with a Status of "*Absent*" and an Excuse of "*Excused*".
		• In the event of a tie, report **Excused Absence**.
		
		✅ **Internal Notes**
		  • Internal documentation on the Attendance Aggregation Refresh Tool
		  • **Total unexcused minutes** = AttDayAggregation.customAbsentMinutes
		  • **Total excused minutes** = AttDayAggregation.stateAbsentMinutes - AttDayAggregation.customAbsentMinutes
		  • We report a record for whichever of the above calculations is greater.
		
		✅ **CATs**
			M	Attendance	Attendance.status
					
					Attendance.excuse
					
					Unexcused = AttDayAggregation.customAbsentMinutes
					
					Excused = AttDayAggregation.stateAbsentMinutes - AttDayAggregation.customAbsentMinutes	

2	**eventDate** (*date*)	*Date for this attendance event.* Reports the **Date** being reported. ✅ **CATs**	M	Attendance	Attendance.date	
3	**schoolReference** (*reference*)	*A reference to the Schools resource associated with the Student School Attendance Events being reported.*	M	School Information	School.entityID EnrollmentGA.schoolOverride	

Reports the fields that are part of the Natural Key for the Schools resource.

- educationOrganizationId = **Ed-Fi School ID**
  - If the **School Override** field is populated on the Enrollment, use the Ed-Fi School ID for the School Override selected.

> ✅ CATs

4	**sessionReference** (*reference*)	*A reference to the Sessions resource associated with the Student School Attendance Events being reported.*
		
		Reports the fields that are part of the Natural Key for the Sessions resource.
		
		• If the **School Override** field is populated on the Enrollment, select a Sessions record from the Override School in the current configuration year to report using the following priority order:
		  • Attendance Date must overlap Session Date.
		  • To determine which Session to choose when the School has multiple Schedule Structures:
		    • Lowest Schedule Structure Sequence
		    • Lowest Schedule Structure ID
		
		✅ CATs
			M	N/A	EnrollmentGA.schoolOverride

5	**studentReference** (*reference*)	*A reference to the Students resource associated with the Student School Attendance Events being reported.* Reports the fields that are part of the Natural Key for the Students resource. ✅ CATs	M	N/A	N/A
6	eventDuration (*decimal*)	*The amount of time for the event as recognized by the school: 1 day = 1, 1/2 day = 0.5, 1/3 day = 0.33.* **Reporting Logic:** • Reports **0.5** if the student was absent for more than half of the day, but less than the full day. • Reports **1** if the student was absent for the full day. Notes:	M	Attendance Aggregation Refresh	**% of Day Absent** = AttDayAggregation.stateAbsentMinutes / AttDayAggregation.stateScheduledMinutes

Notes:

- GA State Reported Attendance uses the Attendance Aggregation Refresh Tool to report attendance.
  - K-12 Solutions Group runs a custom standard procedure (SP) to "summarize" partial enrollment's attendance to their respective school override. We report out of the fields that this SP places values into.
- Absence minutes are minutes where the Status is "*Absent*" and the Excuse is "*Unexcused, Excused, or Unknown*".
  - Present Minutes are not included.
  - Excuse of "*Exempt*" is not included.

> ✅ **Internal Notes**
>
> - Internal documentation on the Attendance Aggregation Refresh Tool
> - **Percentage of day absent** = AttDayAggregation.stateAbsentMinutes / AttDayAggregation.stateScheduledMinutes
>   - If the result of this is > 0.5, we must report an attendance record for that student/school/date combo.

> ✅ **CATs**

7	arrivalTime	This is optional, does not report.	O	N/A	N/A	
8	attendanceEventReason	This is optional, does not report.	O	N/A	N/A	
9	departureTime	This is optional, does not report.	O	N/A	N/A	
10	educationalEnvironmentDescriptor	This is optional, does not report.	O	N/A	N/A	
11	schoolAttendanceDuration	This is optional, does not report.	O	N/A	N/A	
12	absentTime	This is optional, does not report.	O	N/A	N/A	
13	scheduledTime	This is optional, does not report.	O	N/A	N/A	

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Appendix

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