

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

Action	Business Rule(s)
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Post	<ul style="list-style-type: none"> • When a new attendance event is verified for a student and the Attendance State Code is mapped to an Ed-Fi code OR when a student has a Positive Attendance record and 'Positive Attendance' is mapped to an Ed-Fi code • Report attendance for each school the student has a Student School Association record for • Attendance date must fall on or between enrollment start and end dates • Unknown attendance events will not send an event to ed-fi. The original post will not appear until an excuseID is entered in the attendance table • Do not send records if attendance records are associated with a Calendar when the Exclude check box is checked • A record will send for each distinct Date and Attendance Event Category Descriptor • Do not send records if attendance records are associated with a School when the Exclude check box is checked • Attendance must still be reported when a student is rostered in a course that is not state reported. • Do not send records if the student's enrollment is marked as a No Show or State Exclude.
Delete/Post Put	<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"> • If Attendance Event Reason is changed
Delete	<ul style="list-style-type: none"> • Delete attendance record if all attendance is removed for the day for that Attendance Event Category Descriptor • When an enrollment is deleted

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. <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.

<p>400: 'RESOURCE' failed. RESOURCE 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"> • 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.

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. 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	id	<i>The unique identifier of the resource</i>	M			✓
2	attendanceEventCategoryDescriptor	<i>The Key for AttendanceEventCategoryType</i> 1. Reports when a student has a verified attendance status/excuse combination that is mapped to an Ed-Fi code	M	Attendance > Status + Excuse	attendance.status attendance.excuse	✓
3	eventDate	<i>Date for this attendance event</i> 1. The date entered for the attendance record being reported	M	Attendance > Date	attendance.date	✓

4	schoolReference	<p><i>A reference to the related School resource</i></p> <hr/> <p>1. Reports the fields that are part of the Natural Key for the School resource</p>	M			✓
5	sessionReference	<p><i>A reference to the related Session resource</i></p> <hr/> <p>1. Reports the fields that are part of the Natural Key for the Sessions resource</p> <p>2. Only report the Term Type from the Terms tab that is associated with the date and term schedule the attendance is being reported for.</p>	M			✓
6	studentReference	<p><i>A reference to the related Student resource</i></p> <hr/> <p>1. Reports the fields that are part of the Natural Key for the Student resource</p>	M			✓

7	evenDuration	<p><i>The amount of time for the event as recognized by the school (e.g. 1 day = 1, 1/2 day = 0.5)</i></p> <hr/> <p>1. Calculation: (Total absence minutes) \ (Total rostered Instructional minutes).</p> <ul style="list-style-type: none"> ◦ Subtract any Present Minutes from the Total Rostered Minutes value, if they are entered for an absence period. <p>2. If a day event shortens the day, this event duration must be considered in the attendance calculation.</p> <ul style="list-style-type: none"> ◦ If event makes day 50% of a normal instructional day, and the student is absent during the 50% of that instructional day, they must report as absent the whole day. <p>Note:</p> <p>When 2 courses are entered into the same period (a skinnied course), the total attendance period minutes need to be counted per skinnied course.</p> <p>1. For example: If a period is 90 minutes and there are 2 courses in this period, the total per course is 45 minutes.</p> <ul style="list-style-type: none"> ◦ If both courses report no attendance, send 0 attendance minutes. ◦ If one reports attendance and the other does not, send 45 minutes (half of the total period). ◦ If both report attendance, send 90 minutes. 	M			✖
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Appendix