

AZ Ed-Fi Suite v7.3, Data Standard v5.2: Class Periods (SY 25-26)

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Summary

This entity represents the designation of a regularly scheduled series of class meetings at designated times and days of the week.

Object Triggering Logic

Action	Business Rule(s)
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<p>Post</p>	<p>A record will be posted for each Period Schedule / Period Name / Schedule Structure ID combination.</p> <ul style="list-style-type: none"> • A record is only reported for Periods 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"> ◦ Calendar Exclude ◦ School Exclude
<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 the following information is changed on a Period Schedule: <ul style="list-style-type: none"> ◦ Schedule Structure ID (New Schedule Structure) ◦ Period Schedule ID (New Period Schedule) ◦ Period ID (New Period) ◦ Period Name ◦ Start Time ◦ End Time ◦ Instructional • Changes to Resource Preferences mappings do NOT trigger. A manual resync must be performed on the resource if mappings are changed.

Delete

- When a Period Schedule is deleted.
- When a Period is deleted.
- When a Schedule Structure is deleted.
- 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:

- Schools (Pre-populated)

Dependent Resources (Downstream)

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

- Sections

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
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<p>Error code return from Ed-Fi. 409: { "message": "A natural key conflict occurred when attempting to update a new resource with a duplicate key.", "correlationId": "PLACEHOLDER" }.</p>	<p>This error occurs when two records with the exact same natural key attempt to send to the ODS. For the Class Periods resource, the natural key is classPeriodName and schoolReference. Logic for classPeriodName had to be simplified in AZ due to CTE reporting requirements downstream. This logic change introduced an edge case where the Class Periods can hit the 409 Natural Key error.</p> <p>If a school has two Calendars (A and B) with a Period of the exact same name ("7"), this would result in a natural key error.</p> <p>To resolve the natural key error, Period Names must be unique across all Period Schedules and Calendars within a School.</p>
<p>400: Validation of 'RESOURCE' failed. FIELD is required.</p>	<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.
<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.

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.

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	classPeriodName (string)	<p>An indication of the portion of a typical daily session in which students receive instruction in a specified subject (e.g., morning, sixth period, block period, or AB schedules).</p> <hr/> <p>Report the Period Name.</p> <ul style="list-style-type: none"> If there are multiple periods with duplicate names across a calendar's period schedules, a 409: Natural key conflict error message will occur. This error is expected and is NOT an issue. 	M	Calendar	Period .name	✘
2	schoolReference (reference)	<p>A reference to the Schools resource associated with the Class Period 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"> educationOrganizationId = Ed-Fi School ID 	M	School Information	School .entityID	✔
3	meetingTimes (array)	<p>An unordered collection of classPeriod MeetingTimes. The meeting time(s) for a class period.</p> <hr/> <p>Reports the below data elements in an array for all Periods that have a start and end time populated:</p> <ul style="list-style-type: none"> endTime = Reports End Time. startTime = Reports Start Time. 	M	Calendar	Period .endTime Period .startTime	✔
4	officialAttendancePeriod	<p>This is optional, does not report.</p>	O	N/A	N/A	N/A



Appendix