

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

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## Summary

A set of dates associated with an organization.

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## Object Triggering Logic

Action	Business Rule(s)
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Post

A record will be posted for each Calendar / Schedule Structure combination

- A record is only reported for Calendars 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.
- Once the "Certified in AzEDS" is checked on Calendar Information, Ed-Fi records associated with the Calendar can no longer be updated (PUT), posted (POST), or deleted (DELETE).
  - This is different from an exclude in that it doesn't *prevent* records from being updated but rather acts as a blocker to all future updates after you check the checkbox.
  - This checkbox should be checked once the Calendar has been fully certified in AzEDS at the beginning of the School Year.
  - If the Calendar is overridden to a different calendar via the Calendar Override Mapping Tool, refer to the value of the checkbox on the override calendar and not the calendar being overwritten.
- Do not report a record if the any of the following exclusions are present:
  - Calendar Days Per Week field is NULL
  - Calendar Exclude
  - School Exclude
  - Calendar is mapped to a different calendar in the Calendar Override Mapping Tool (Found in Resource Preferences)
- Arizona only allows **one calendar per school**. Ensure to map all other calendars and schedule structures within the school to the calendar

<p>Delete/Post Put</p>	<p>you want to report in the Calendar Override Mapping Tool.</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 below information is changed on Calendar:             <ul style="list-style-type: none"> <li>◦ Calendar ID (New Calendar)</li> <li>◦ Schedule Structure ID (New Schedule Structure)</li> <li>◦ Days Per Week</li> <li>◦ Grade Level</li> </ul> </li> <li>• When the below information is changed for a given Day:             <ul style="list-style-type: none"> <li>◦ Instructional</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 a calendar is deleted.</li> <li>• When a schedule structure is deleted.</li> <li>• When the Calendar 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)

## Dependent Resources (Downstream)

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

- Calendar Dates
- Student School Associations

## 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>

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	<b>calendarCode</b> (string)	<p>The identifier for the calendar.</p> <hr/> <p>Reports the following values separated by dashes between each value. The resulting ID is posted on the Calendar as <b>EdFi CalendarID</b>.</p> <ul style="list-style-type: none"> <li>• District Entity ID Override           <ul style="list-style-type: none"> <li>◦ If NULL, uses the District Entity ID</li> </ul> </li> <li>• School Entity ID</li> <li>• Calendar Days Per Week</li> <li>• Structure ID</li> </ul>	M	School Information District Information Calendar	CustomSchool .value District .entityID School .entityID CustomCalendar .value ScheduleStructure .structureID	
2	<b>schoolReference</b> (reference)	<p>A reference to the Schools resource associated with the Calendar 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>Ed-Fi School ID</b></li> </ul>	M	School Information	School .entityID	
3	<b>schoolYearTypeReference</b> (reference)	<p>A reference to the School Year resource associated with the Calendar being reported.</p> <hr/> <p>Reports the <b>End Year</b> the calendar is associated with.</p>	M	N/A	N/A	

4	calendarTypeDescriptor (string)	<p><i>Indicates the type of calendar.</i></p> <hr/> <p>Reports the Ed-Fi Code mapped to the value selected for <b>Days Per Week</b>.</p> <ul style="list-style-type: none"> <li>This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Calendars resource.</li> </ul>	M	Calendar	CustomCalendar .value	✔
5	gradeLevels (array)	<p><i>An unordered collection of calendarGradeLevels. Indicates the grade levels associated with the calendar.</i></p> <hr/> <ul style="list-style-type: none"> <li>gradeLevelDescriptor           <ul style="list-style-type: none"> <li>Reports the Ed-Fi Code mapped to <b>ALL</b> unique grade levels of the calendar / schedule structure.</li> <li>Does not report if the Grade Level is marked as Exclude from State Reporting.</li> <li>This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Grade Levels resource.</li> </ul> </li> </ul>	M	Calendar	GradeLevel .name	✔
6	beginDate (date)	<p><i>The first date of the track</i></p> <hr/> <p>Reports the <b>First Instructional Day</b> of the Calendar.</p>	M	Calendar	Day .date	EXT
7	endDate (date)	<p><i>The last date of the track</i></p> <hr/> <p>Reports the <b>Last Instructional Day</b> of the Calendar.</p>	M	Calendar	Day .date	EXT

8	totalInstructionalDays (number)	<p>The total number of instructional days in the school calendar. National Education Data Model (NEDM): Total Days in Session</p> <hr/> <p>Reports the <b>Total Amount of Instructional Days</b> for the Calendar.</p>	M	Calendar	Day .date	EXT
9	trackLocalEducationAgencyReference (reference)	<p>A reference to the Local Education Agencies resource associated with the Calendar being reported.</p> <hr/> <p>Reports the fields that are part of the Natural Key for the Local Education Agencies resource.</p> <ul style="list-style-type: none"> <li>• localEducationAgencyId             <ul style="list-style-type: none"> <li>◦ Reports the <b>District Entity ID Override</b> for the School associated with the calendar.                 <ul style="list-style-type: none"> <li>▪ If NULL, uses the <b>District Entity ID</b> for the District associated with the calendar.</li> </ul> </li> </ul> </li> </ul>	M	School Information  District Information	CustomSchool .value  District .entityID	EXT

Appendix