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

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Summary

A term in the school year, generally a unit of time into which courses are scheduled, instruction occurs and by which credits are awarded. Sessions may be interrupted by vacations or other events.

Object Triggering Logic

Action	Business Rule(s)

Post	Reports a record when the Sessions Resource Preferences mapping is changed to have an Ed-Fi Code and a resync of the Sessions resource is completed.
	• If the same Ed-Fi Code is selected on multiple Terms, group the Terms together and report only one record per Ed-Fi Code.
	• If there are multiple Calendars or Schedule Structures in a School with the same Ed-Fi Code, only one record with the earliest Term Start Date and latest Term End Date will be reported.
	• A Course and/or Section can be overridden to report as a different Session than the main Calendar mapping:
	○ Check the Ed-Fi Term Descriptor Override box on the Course/Section to have it show up in Resource Preferences for Sessions under the Term Descriptor Overrides section.
	• Do not report a record if the any of the following exclusions are present:
	○ Calendar Exclude
	○ School Exclude
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.
	• Changes to Resource Preferences mappings **do NOT trigger**. A manual resync must be performed on the resource if mappings are changed.

Delete	• When the associated Term is deleted. • When the Ed-Fi Code is removed in Resource Preferences and a resync is completed. • 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

Dependent Resources (Downstream)

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

- Course Offerings
- Student School Attendance Events

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.

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	**sessionName** (*string*)	*The identifier for the calendar for the academic session.* Reports the **Name** of the Ed-Fi Code being reported for termDescriptor. • When the Session Name Override is checked: 　○ Reports **District ID - Name** of the Ed-Fi Code being reported for termDescriptor. 　○ The Session Name Override checkbox can be found in the Resource Preferences of the Ed-Fi Connection under the Sessions resource.	M	Ed-Fi Configuration > Resource Preferences	EdFiMapping .edFiValue	✅

2	schoolReference (*reference*)	*A reference to the Schools resource associated with the Session being reported.* Reports the fields that are part of the Natural Key for the Schools resource.	M	N/A	N/A	✅
3	**schoolYearTypeReference** (*reference*)	*A reference to the School Year associated with the Session being reported.* Reports the **End Year** of the Calendar the Term is associated with.	M	Calendar Information	Calendar .endYear	✅
4	beginDate (*date*)	*Month, day, and year of the first day of the session.* Reports the **Start Date** of the Term being reported. • If more than one term has the same Ed-Fi Code selected, reports the earliest Start Date. • If reporting from a Term Descriptor Override, reports the Start Date of the associated Term the course/section is being offered in.	M	Term Setup	Term .startDate	✅

#	Element	Description				
5	endDate (*date*)	*Month, day and year of the last day of the session.* Reports the **End Date** of the Term being reported. • If more than one term has the same Ed-Fi Code selected, reports the earliest Start Date. • If reporting from a Term Descriptor Override, reports the Start Date of the associated Term the course/section is being offered in.	M	Term Setup	Term .endDate	✅
6	termDescriptor (*string*)	*A descriptor value indicating the term.* Reports the Ed-Fi Code mapped to the **Term** being reported. • This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Sessions resource.	M	Ed-Fi Configuration > Resource Preferences	EdFiMapping .edFiValue	✅
7	totalInstructionalDays (*number*)	*The total number of instructional days in the school calendar.* Reports the **total amount of Instructional Days** in the Term(s) being reported. • If more than one term has the same Ed-Fi Code, reports the total amount of Instructional Days from all terms with that Ed-Fi Code. • If reporting from a Term Descriptor Override, reports the total amount of Instruction Days of the associated Term the course/section is being offered in.	M	N/A	N/A	✅
8	academicWeeks	This data element is optional and does not report.	O	N/A	N/A	N/A
9	gradingPeriods	This data element is optional and does not report.	O	N/A	N/A	❌

Appendix