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

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Summary

This association represents the school in which a student is enrolled. The semantics of enrollment may differ slightly by state. Non-enrollment relationships between a student and an education organization may be described using the Student Education Organization Association resource.

Object Triggering Logic

Action	Business Rule(s)

Post	Reports a record when an Enrollment is saved and overlaps the configured year.
	• A record is only reported for Enrollments 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.
	• A record will report for each Enrollment with a unique School and Enrollment Start Date combination.
	• When a student has two enrollments in the same School, Calendar, and Schedule Structure with the same start date, report from the enrollment service type in the following order:
	◦ P: Primary Enrollment
	◦ S: Partial/Ancillary
	◦ N: Special Ed Services
	• When a student has two Primary enrollments in the same school with the same start date, post the record with the highest enrollment ID.
	• Do not report a record if the any of the following exclusions are present:
	◦ Enrollment State Exclude
	◦ Enrollment Grade Exclude from State Reporting
	◦ Enrollment Start Status is *E: NON-SAIS DISTRICT USE ONLY!*
	◦ 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.
	
	• When any of the following information is changed on Enrollments:
	   ◦ Enrollment ID (New Enrollment)
	   ◦ Grade
	   ◦ Start Date
	   ◦ End Date
	   ◦ End Action
	   ◦ State Start Status
	   ◦ State End Status
	   ◦ Effective Date
	   ◦ Resident District
	   ◦ FTE
	   ◦ Tuition Payer
	   ◦ Special Enrollment
	   ◦ Local Service Type
	   ◦ Withdrawal Reason
	   ◦ Total CTE Hours
	   ◦ Total CC CTE Credits
	• When any of the following information is changed on Graduation:
	   ◦ NCLB Cohort End Year

	- When any of the following information is changed on Program Participation:
	    ○ Program Participation ID (New Program Participation)
	    ○ Program
	    ○ Start Date
	    ○ End Date
	- Changes to Resource Preferences mappings **do NOT trigger**. A manual resync must be performed on the resource if mappings are changed.

Delete	- When the student is now excluded in some way. - When the Enrollment is deleted. - When the Enrollment dates are changed to no longer overlap the configured year. - 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:

- Students
- Schools
- Graduation Plans
- Calendars

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.

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 | entryDate (*date*) | *The month, day, and year on which an individual enters and begins to receive instructional services in a school.* <hr> Reports the **Enrollment Start Date**.
• If the Enrollment is part of a ZZZ chain of enrollments, reports the **Enrollment Start Date** from the **FIRST** enrollment in the ZZZ chain.
  ○ See the [ZZZ article](#) for more information on specific logic. | M | Enrollments | Enrollment .startDate | ✖ |

| 2 | calendarReference (*reference*) | *A reference to the Calendars resource associated with the Student School Associations being reported.*

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

• If the Calendar associated with the Enrollment being reported is mapped to an override Calendar in the Calendar Override Mapping Tool, reference the override Calendar.
• This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Calendars resource. | O | N/A | N/A | ✅ |
| 3 | classOfSchoolYearTypeReference (*reference*) | *A reference to the School Year the student is expected to graduate.*

Report the **NCLB Cohort End Year**.

• Do not report if NCLB Cohort End Year is NULL. | O | Graduation | Graduation.cohortYearNCLB | ✅ |

4	**schoolReferenc e** (*reference*)	*A reference to the Schools resource associated with the Student School Associations being reported.* Reports the fields that are part of the Natural Key for the Schools resource.	M	N/A	N/A	✅
5	schoolYearTypeR eference (*reference*)	*A reference to the School Year associated with the Student School Association being reported.* Reports the **End Year** of the calendar associated with the Enrollment.	O	Calenda r Informa tion	Calendar .endYear	✅
6	**studentReferen ce** (*reference*)	*A reference to the Students resource associated with the Student School Associations being reported.* Reports the fields that are part of the Natural Key for the Students resource.	M	N/A	N/A	✅

| 7 | entryGradeLevel Descriptor (*string*) | *The grade level or primary instructional level at which a student enters and receives services in a school or an educational institution during a given academic session.*

Reports the Ed-Fi Code mapped to the value selected for **Grade**.

• This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Grade Levels resource. | M | Enrollments | Enrollment .grade | ✅ |

| 8 | entryTypeDescriptor (*string*) | *The process by which a student enters a school during a given academic session.* <hr /> Reports the Ed-Fi Code mapped to the value selected for **Enrollment State Start Status**.

• This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student School Associations resource.
• If the Enrollment is part of a ZZZ chain of enrollments, reports the **Enrollment End Date** from the **FIRST** enrollment in the ZZZ chain.
   ◦ See the [ZZZ article](#) for more information on specific logic. | O | Enrollments | Enrollment.startStatus | ✅ |

| 9 | exitWithdrawDate (*date*) | *The recorded exit or withdraw date for the student.*

Reports the **Enrollment End Date**.

• If the Enrollment is part of a ZZZ chain of enrollments, reports the **Enrollment End Date** from the **LAST** enrollment in the ZZZ chain.
   ◦ See the [ZZZ article](#) for more information on specific logic.
• Does not report if Enrollment End Date is NULL. | C | Enrollments | Enrollment.endDate | ⊗ |

| 1 0 | exitWithdrawTypeDescriptor (*string*) | *The circumstances under which the student exited from membership in an educational institution.*

Reports the Ed-Fi Code mapped to the value selected for **End Action**.

• If the End Action is NULL or not mapped to an Ed-Fi Code, reports the Ed-Fi Code mapped to the value selected for **Enrollment State End Status**.
• Both of these mappings can be found in the Resource Preferences of the Ed-Fi Connection under the Student School Associations resource.
• If the Enrollment is part of a ZZZ chain of enrollments, reports the **Enrollment End Date** from the **LAST** enrollment in the ZZZ chain.
    ○ See the [ZZZ article](#) for more information on specific logic. | C | Enrollments | Enrollment.endAction

Enrollment.endStatus | ❌ |

| 11 | exitWithdrawReasonDescriptor (*string*) | *The circumstances under which the student exited from membership in an educational institution.*

Reports the Ed-Fi Code mapped to the value selected for **Withdrawal Reason**.

• Does not report if the Withdrawal Reason is NULL or not mapped to an Ed-Fi Code.
• This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student School Associations resource.
• If the Enrollment is part of a ZZZ chain of enrollments, reports the **Enrollment End Date** from the **LAST** enrollment in the ZZZ chain.
  ○ See the ZZZ article for more information on specific logic. | C | Enrollments | EnrollmentAZ.withdrawalReason | EXT |

| 12 | membershipType Descriptor (*string*) | *Membership Type identifies whether a school has primary responsibility for managing a specific student's curriculum or not. The 'P' code value will allow the reporting of students who are enrolled in a SPED program but not enrolled in a school.*

Reports the Ed-Fi Code mapped to the value selected for **Local Service Type**.

• Does not report if the Local Service Type is NULL or not mapped to an Ed-Fi Code.

• This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student School Associations resource. | M | Enrollments | EnrollmentAZ .localServiceType | EXT |

13	totalCommunity CollegeEnrolledCredits (*number*)	*The total value of credits for CTED courses at a community college.* Reports the **Total CC CTE Credits**. • Does not report if the Total CC CTE Credits is NULL. • A nightly automated task is set to calculate the value and place it into the Total CC CTE Credits field.	M	Enrollments	EnrollmentAZ.cteCreditHours	EXT
14	totalPlanned InstructionalHours (*number*)	*The planned total number of clock hours for a CTED course enrollment.* Reports the **Total CTE Hours**. • Does not report if the Total CC CTE Credits is NULL. • A nightly automated task is set to calculate the value and place it into the Total CTE Hours field.	M	Enrollments	EnrollmentAZ.cteMinutes	EXT

15	localEducationAgencies (*array*)	*An unordered collection of studentSchool AssociationLocal EducationAgencies. This association represents any special enrollment characteristics of the student school association*	M	Enrollments	Enrollment.startDate CustomStudent.value Enrollment.endDate Enrollment.residentDistrict	EXT

		Reports the following data elements in an array for each entry in the Residency table on the Enrollment being reported:
		
		• membershipResponsibilityDescriptor
		  ○ Reports **03** (Funding).
		• startDate
		  ○ Reports the **Effective Date**.
		    ▪ The first Effective Date will always be the **Enrollment Start Date** (Enrollment DB Table). All future Effective Dates will be located on the CustomStudent DB Table.
		• endDate
		  ○ The last value will always report as the **Enrollment End Date**.
		  ○ All other values will report as the **Previous Instructional Day** to the next startDate being reported.				

- E.g. If the current startDate being reported is `Jul 1, 2025`, the next startDate being reported is `Sep 1, 2025`, and the previous instructional day to `Sep 1, 2025` is `Aug 25, 2025`, the endDate of the first record would be `Aug 25, 2025` and the endDate of the second record would be equal to the Enrollment End Date.

- localEducationAgencyReference

  - Reports the fields that are part of the Natural Key for the Local Education Agencies resource for the value entered in **Resident District**.

    - The first Resident District will always save to the Enrollment DB table. All future Resident Districts will be located on the CustomStudent DB Table.

- **NOTE:** More information on Resident Districts can be found here: [Enrollments (Arizona) | Infinite Campus](#).

- **NOTE:** For ZZZ Enrollments, all Resident District information must be entered on the **FIRST** ZZZ Enrollment.

  - Resident District information entered on any of the other ZZZ Enrollments will be ignored for

		reporting.				
		◦ The Enrollment End Date referenced above will use the **LAST** ZZZ Enrollment.				
		◦ See the ZZZ article for more information on specific logic on ZZZ Enrollments.				

| 16 | membershipFTEs (*array*) | *An unordered collection of studentSchoolAssociation MembershipFTEs. This association represents the full-time equivalency of the student school association*

Reports the following data elements in an array for each entry in the Residency table on the Enrollment being reported:

• fteStartDate
   ○ Reports the **Effective Date**.
      ▪ The first Effective Date will always be the **Enrollment Start Date** (Enrollment DB Table). All future Effective Dates will be located on the CustomStudent DB Table.
• membershipFTEDescriptor
   ○ Reports the Ed-Fi Code mapped to the value selected for **FTE**.
      ▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student School Associations resource.
   ○ If FTE is NULL or not mapped to an Ed-Fi Code, report **1.00**. | M | Enrollments | Enrollment .startDate

CustomStudent .value

Enrollment .percentEnrolled

Enrollment .endDate | EXT |

- fteEndDate
  - The last value will always report as the **Enrollment End Date**.
  - All other values will report as the **Previous Instructional Day** to the next startDate being reported.
    - E.g. If the current startDate being reported is `Jul 1, 2025`, the next startDate being reported is `Sep 1, 2025`, and the previous instructional day to `Sep 1, 2025` is `Aug 25, 2025`, the endDate of the first record would be `Aug 25, 2025` and the endDate of the second record would be equal to the Enrollment End Date.
- **NOTE:** More information on FTE can be found here: [Enrollments (Arizona) | Infinite Campus](#).
- **NOTE:** For ZZZ Enrollments, all FTE information must be entered on the **FIRST** ZZZ Enrollment.
  - FTE information entered on any of the other ZZZ Enrollments will be ignored for reporting.
  - The Enrollment End Date referenced above will use the **LAST** ZZZ Enrollment.
  - See the [ZZZ article](#) for more information on specific logic on ZZZ Enrollments.

1 7	specialEnrollments (*array*)	*An unordered collection of studentSchoolAssociation SpecialEnrollments. This association represents any special enrollment characteristics of the student school association*	M	Enrollments	Enrollment .startDate	EXT
		Reports the following data elements in an array for each entry in the Residency table on the Enrollment being reported:			CustomStudent .value	
		• specialEnrollmentStartDate			Enrollment .nclbChoice	
		◦ Reports the **Effective Date**.			Enrollment .endDate	
		▪ The first Effective Date will always be the **Enrollment Start Date** (Enrollment DB Table). All future Effective Dates will be located on the CustomStudent DB Table.				
		• specialEnrollmentDescriptor				
		◦ Reports the Ed-Fi Code mapped to the value selected for **Special Enrollment.**				
		▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student School Associations resource.				
		◦ Does not report if Special Enrollment is NULL or not mapped to an Ed-Fi Code.				

- specialEnrollmentEndDate
  - The last value will always report as the **Enrollment End Date**.
  - All other values will report as the **Previous Instructional Day** to the next startDate being reported.
    - E.g. If the current startDate being reported is `Jul 1, 2025`, the next startDate being reported is `Sep 1, 2025`, and the previous instructional day to `Sep 1, 2025` is `Aug 25, 2025`, the endDate of the first record would be `Aug 25, 2025` and the endDate of the second record would be equal to the Enrollment End Date.
- **NOTE:** More information on Special Enrollments can be found here: [Enrollments (Arizona) | Infinite Campus](#).
- **NOTE:** For ZZZ Enrollments, all Special Enrollment information must be entered on the **FIRST** ZZZ Enrollment.
  - Special Enrollment information entered on any of the other ZZZ Enrollments will be ignored for reporting.

		○ The Enrollment End Date referenced above will use the **LAST** ZZZ Enrollment. ○ See the ZZZ article for more information on specific logic on ZZZ Enrollments.				

| 18 | tuitionPayers (*array*) | *An unordered collection of studentSchoolAssociation TuitionPayers. This association represents the tuition payer codes of the student school association*

 Reports the following data elements in an array for each entry in the Residency table on the Enrollment being reported:

 • payerStartDate
    ◦ Reports the **Effective Date**.
       ▪ The first Effective Date will always be the **Enrollment Start Date** (Enrollment DB Table). All future Effective Dates will be located on the CustomStudent DB Table.
 • tuitionPayerDescriptor
    ◦ Reports the Ed-Fi Code mapped to the value selected for **Tuition Payer**.
       ▪ This mapping can be found in the Resource Preferences of the Ed-Fi Connection under the Student School Associations resource.
    ◦ If Tuition Payer is NULL or not mapped to an Ed-Fi Code, report **1** (Normal).
 • payerEndDate | M | Enrollm ents | Enrollment .startDate

 Enrollment .stateAid

 Enrollment .endDate

 CustomStuden t .value | EXT |

- The last value will always report as the **Enrollment End Date**.

- All other values will report as the **Previous Instructional Day** to the next startDate being reported.

  - E.g. If the current startDate being reported is `Jul 1, 2025`, the next startDate being reported is `Sep 1, 2025`, and the previous instructional day to `Sep 1, 2025` is `Aug 25, 2025`, the endDate of the first record would be `Aug 25, 2025` and the endDate of the second record would be equal to the Enrollment End Date.

- **NOTE:** More information on FTE can be found here: Enrollments (Arizona) | Infinite Campus.

- **NOTE:** For ZZZ Enrollments, all Tuition Payer information must be entered on the **FIRST** ZZZ Enrollment.

  - Tuition Payer information entered on any of the other ZZZ Enrollments will be ignored for reporting.

  - The Enrollment End Date referenced above will use the **LAST** ZZZ Enrollment.

		○ See the [ZZZ article](#) for more information on specific logic on ZZZ Enrollments.				
19	graduationPlanReference	This data element is optional and does not report.	O	N/A	N/A	❌
20	alternativeGraduationPlans	This data element is optional and does not report.	O	N/A	N/A	N/A
21	educationPlans	This data element is optional and does not report.	O	N/A	N/A	N/A
22	employedWhileEnrolled	This data element is optional and does not report.	O	N/A	N/A	N/A
23	entryGradeLevelReasonDescriptor	This data element is optional and does not report.	O	N/A	N/A	N/A
24	fullTimeEquivalency	This data element is optional and does not report.	O	N/A	N/A	N/A
25	primarySchool	This data element is optional and does not report.	O	N/A	N/A	❌
26	repeatGradeIndicator	This data element is optional and does not report.	O	N/A	N/A	❌
27	residencyStatusDescriptor	This data element is optional and does not report.	O	N/A	N/A	❌

2 8	schoolChoiceTransfer	This data element is optional and does not report.	O	N/A	N/A	❌
2 9	termCompletionIndicator	This data element is optional and does not report.	O	N/A	N/A	N/A

Appendix