

Arizona Ed-Fi Data v2.0

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Understand Object Triggering Tables | Understand Object Data Element Tables | Understand Type/Descriptor Tables | Entities and Elements | Class Periods | Course Offering | Course Transcripts | Course | Local Education Agency | Locations | Parents | Programs | Schools | Section | Sessions | Additional Logic and Considerations

Tool Search: Ed-Fi

This article defines all of the elements of data sent per entity between Campus and the Ed-Fi system.

This document defines AzEDS v4.0/Ed-Fi v2.0 logic and reported data.

Note: The following resources were added for AzEDS 4.0 reporting in the 1825 release:

- Calendar Date Track Events
- Grading Periods
- Student Program Associations
- Tracks

If using the AzEds 5.0 logic and Ed-Fi v3.1, please see the Arizona Ed-Fi v3.1 (19-20) article.

- Future data is suppressed when syncing data from Campus to Ed-Fi. Only past and present data is synced.
 - Data in calendars marked as Exclude will not send data to Ed-Fi.
 - Person-related records do not trigger a send of data to Ed-Fi if the person does not have an Ed-Fi ID value assigned.
 - Ed-Fi ignores custom field data entered in Campus.

For more information about proper Ed-Fi setup for Arizona users, see the following:

- Arizona Ed-Fi Setup Checklist
- Setting Up Arizona SPED Plans for Use in Ed-Fi
- Setting Up Schools and Enrollments for Tuition Out Students
- Update Former Student to Staff Member
- Ed-Fi v2.0 Ed-Fi Connection Configuration Tool Set Resource Preferences
- Ed-Fi v2.0 Configuration Tool Configure Ed-Fi Connection

An entity is a collection of related data which is sent in a cluster of data elements from Campus to



Ed-Fi. Select the following links to view what data elements are contained and sent within that entity:

- Calendar Date Track Events
- Class Periods
- Course Offering
- Course Transcripts
- Course
- Grading Periods
- Local Education Agency
- Locations
- Parents
- Programs
- Schools
- Section
- Sessions
- Staff Education Organization Assignment Association
- Staff Education Organization Employment Association
- Staff Section Association
- Staff
- Student Academic Record
- Student Parent Association
- Student School Association
- Student School Attendance Event
- Student Section Association
- Student
- Student Need
- Student Program Associations
- Student Program Attendance Event
- Student School Association Local Education Agencies
- Student Special Education Program Association
- Student School Association Membership FTE
- Student School Association Tuition Payers
- Student School Association Special Enrollment
- Tracks

No Show Logic:

- If the No Show checkbox is marked on an enrollment record prior to any data sent to Ed-Fi, only the Student and Student School Association record will be sent.
- If the No Show checkbox is marked on an enrollment record after data has been sent to Ed-Fi, the following will occur:
 - Deletes are sent for the following resources:
 - StudentEducationOrganizationAssociation
 - StudentSchoolAssociationMembershipFTE
 - StudentSchoolAssociationTuitionPayer
 - StudentSchoolAssociationSpecialEnrollment



- StudentNeeds
- StudentProgramAssociation
- Student Special Education Program Association
- Student and Student School Association records will remain in Ed-Fi and the Student School Association record will be updated with the proper enrollment End Date and Exit Status values.

Understand Object Triggering Tables

The Object Triggering Logic Tables describe what actions within Campus result in data being triggered to sync to Ed-Fi.

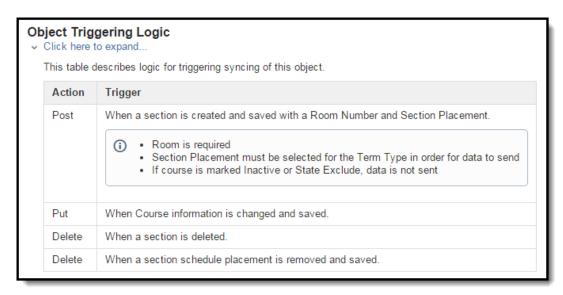


Image 1: Example of an Object Triggering Logic Table

The following table lists the definition of each potential Action:

Action	Definition			
Post	This will insert new records and data within Ed-Fi.			
Put	This action will update existing information within Ed-Fi.			
Get	This action is used for items that are pre-loaded by ADE. For example, Courses and Programs.			
Delete	This will delete records and data within Ed-Fi.			

Understand Object Data Element Tables

The Object Data Element tables describe all of the elements contained within a reporting entity.



Each element is given a description of what it is and any potential logic used to calculate the element, if the element is mandatory for reporting to Ed-Fi (indicated by an M), where the data is pulled from the Campus database and where the pulled information is entered within the Campus UI.

Elements marked as **M** are mandatory elements which must report data to Ed-Fi in order to meet reporting requirements. Elements marked as **O** are optional elements which are not mandatory for the Ed-Fi requirement but can be populated and report data for additional state-specific reporting purposes. Elements listed as **C** are conditional elements which are not required to report but will report data if the data is present within Campus.

Data Element Labels in bold are part of the Natural Key and are required data elements for Data to send to Ed-Fi.

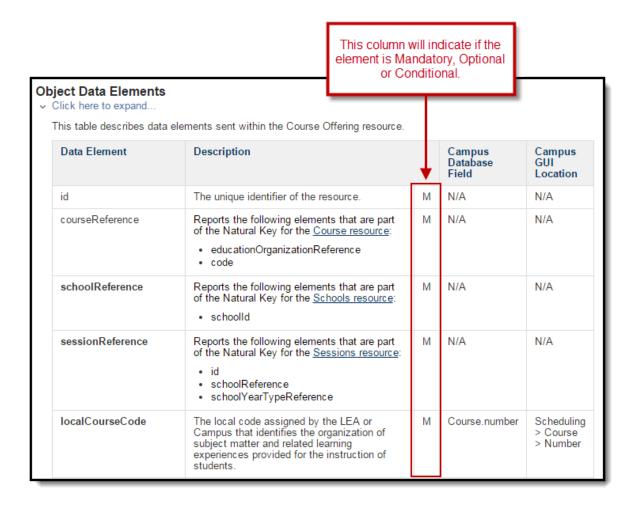


Image 2: Example of a Object Data Elements Table

Understand Type/Descriptor Tables

The Type/Descriptor section describes each element and their corresponding Campus to Ed-Fi value translation that is occurring.

If the element is reporting a **Descriptor**, the **Ed-Fi Code Value** is reported.



If the element is reporting a **Type**, the **Ed-Fi Short Description** is reported.

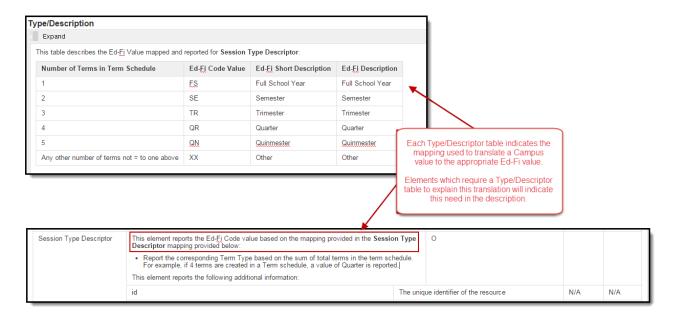


Image 3: Example of a Type/Descriptor Table

Entities and Elements

The following lists all the currently available and syncing entities and their respective elements.

Negative Attendance calculation logic will report a record for each school, regardless of enrollment type.

Logic will first look at the Attendance Type field on the Enrollment tab, as this is considered an override field. If this field is not populated, the Attendance Type indicated on the calendar is reported.

Calendar Date Track Events

This entity represents a day in the school calendar.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Types/Descriptors



▶ Click here to expand...

Class Periods

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

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Course Offering

This entity represents an offering of a course by school during a session, representing the course catalog of available courses.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Course Transcripts

This entity is the final record of a student's performance in their courses at the end of a semester or school year.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic



Object Data Elements

▶ Click here to expand...

Course

This educational entity represents the organization of subject matter and related learning experiences provided for the instruction of students on a regular or systematic basis.

Object Triggering Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Grading Periods

This entity represents the time span for which grades are reported; Quarter, Semester, Final, etc. The Start and End dates must have a calendar event in the Calendar Dates resource before Grading Periods can send. Users need to perform a day reset prior to filling out the Grading Periods tab.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptors

▶ Click here to expand...

Local Education Agency

This entity represents an administrative unit at the local level, which exists primarily to operate schools or to contract for educational services. It includes school districts, charter schools, charter management organizations or other local administrative organizations.

Object Triggering Logic



Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Locations

This entity represents the physical space where students gather for a particular class/section. The location may be an indoor or outdoor area designated for the purpose of meeting the educational needs of students.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Parents

This entity represents a parent or guardian of a student, such as mother, father or caretaker.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Programs

This entity represents any program designed to work in conjunction with, or as a supplement to, the main academic program. Programs may provide instruction, training, services or benefits through federal, state or local agencies. Programs may also include organized extracurricular activities for



students.

Object Triggering Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Schools

This entity represents an educational organization that includes staff and students who participate in classes and educational activity groups.

Object Triggering Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Section

This educational entity represents a setting in which organized instruction of course content is provided to one or more students for a given period of time. A course may be offered to more than one class/section. Instruction, provided by one or more teachers or other staff members, may be delivered in person or via a different medium.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor

▶ Click here to expand...

Sessions



This entity represents the prescribed span of time when an education institution is open, instruction is provided and students are under the direction and guidance of teachers and/or education institution administration. A session may be interrupted by one or more vacations.

In order to report properly, the Ed-Fi Term Type field needs to be populated on the Calendar Term Detail editor. This ties the Course Section to the Term. If the Course Section needs to use a different term type, the Ed-Fi Term Type Override field needs to be populated on the Course Section Editor.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor

▶ Click here to expand...

Staff Education Organization Assignment Association

This association indicates the education organization to which a staff member provides services; also known as school of service.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor

▶ Click here to expand...

Staff Education Organization Employment Association



This association indicates the education organization an employee, contractor, volunteer or other service provider is formally associated with typically indicated by which organization the staff member has a services contract with or receives compensation from.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor

▶ Click here to expand...

Staff Section Association

This association indicates the course sections to which a student is assigned.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor

▶ Click here to expand...

Staff

This entity represents an individual who performs specified activities for any public or private education institution or agency that provides instructional and/or support services to students or staff at the early childhood level through high school completion.

Object Triggering Logic



▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor

▶ Click here to expand...

Student Academic Record

This educational entity represents the cumulative record of academic achievement for a student.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Student Parent Association

This association relates students to their parents, guardians or caretakers.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor



Student School Association

This association represents the school in which a student is enrolled.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor

▶ Click here to expand...

Student School Attendance Event

This event entity represents the recording of whether a student is in attendance on a daily basis at their school.

Object Triggering Logic for Negative Attendance

▶ Click here to expand...

Object Triggering Logic for AOI Positive Attendance

▶ Click here to expand...

Object Triggering Logic for Non-AOI Positive Attendance

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor



Student Section Association

This association indicates the course sections to which a student is assigned.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor

▶ Click here to expand...

Student

Provide a summary of what the report/function will cover and the logistics around the data collection or reporting.

The Student Resource is a shared record among all districts. If two districts have the same student in the same year, the last district to trigger data to Ed-Fi is the data stored in Ed-Fi.

For example, if one district put in a first name of "Robert" and the second district put in a first name of "Rob", the last district to update the student record is what will appear in Ed-Fi and on both District's reports. This is true for all field logic in the Student Resource.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Descriptor



Student Need

This resource identifies a student's program participation needs.

Reporting Logic

▶ Click here to expand...

Object Triggering Logic for Program Flags

▶ Click here to expand...

Scope Year Logic for Flags

▶ Click here to expand...

Object Triggering Logic for Homeless

▶ Click here to expand...

Scope Year Logic for Homeless

▶ Click here to expand...

Object Triggering Logic for Title 1

▶ Click here to expand...

Scope Year Logic for Title 1

▶ Click here to expand...

Object Triggering Logic for Eligibility

▶ Click here to expand...

Scope Year Logic for Eligibility

▶ Click here to expand...

Object Triggering Logic for IEP

▶ Click here to expand...

Scope Year Logic for IEP

▶ Click here to expand...

Object Triggering Logic for EL Services



Scope Year Logic for EL Services

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Student Program Associations

This entity represents any program designed to work in conjunction with, or as a supplement to, the main academic program. Programs may provide instruction, training, services or benefits through federal, state or local agencies. Programs may also include organized extracurricular activities for students.

Reporting Logic

▶ Click here to expand...

Object Triggering Logic for Flags

▶ Click here to expand...

Scope Year Logic for Flags

▶ Click here to expand...

Data Setup

▶ Click here to expand...

Object Triggering Logic for Title 1

▶ Click here to expand...

Scope Year Logic for Title 1

▶ Click here to expand...

Object Triggering Logic for Special Ed

▶ Click here to expand...

Object Triggering Logic for EL

▶ Click here to expand...

Scope Year Logic for EL

▶ Click here to expand...

Object Data Elements



▶ Click here to expand...

Type/Descriptor

▶ Click here to expand...

Student Program Attendance Event

This event entity represents the recording of whether a student is in attendance for a class that takes place during a specific program. This resource depends on a student being rostered into a course with Positive Attendance enabled and the "21st CCLC" droplist selected on the Course level.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Types/Description

▶ Click here to expand...

Student School Association Local Education Agencies

Reports the data on any relationship between a student and an education organization other than how.ever the state views enrollment. Enrollment relationship semantics are covered by Student School Association.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Description



Student Special Education Program Association

Reports the Special Education data for a student.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Description

▶ Click here to expand...

Student School Association Membership FTE

Reports the enrollment percentage for a student.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Student School Association Tuition Payers

This entity represents the organization that pays tuition.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic



Object Data Elements

▶ Click here to expand...

Type/Description

▶ Click here to expand...

Student School Association Special Enrollment

This entity represents special dispensation granted.

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Description

▶ Click here to expand...

Tracks

This entity represents a school calendar

Object Triggering Logic

▶ Click here to expand...

Scope Year Logic

▶ Click here to expand...

Object Data Elements

▶ Click here to expand...

Type/Description



Additional Logic and Considerations

The following describes additional logic and considerations to be aware of when working with Ed-Fi.

Αt	tte	nd	an	ce

Only attendance that is "verified" will send to Ed-Fi. Absent/Unknown records marked by a teacher will not send. Negative attendance will send when it is given an excuse code.

NON-AOI Positive Attendance will send at midnight every night in batch to complete the calculation to determine a student's total present minutes. AOI Positive Attendance will send a sum of all minutes entered for a day. If more than 1 record is entered on the same day, the record will update with a new sum of total minutes present for that day.

No Show/Excludes

When the State Exclude or No Show checkbox is marked on an Enrollment, a Delete will be sent from Ed-Fi. This behavior does not occur on other objects such as Calendars.

Example: A Calendar is sync'd and now the district no longer wants the calendar to report from Ed-Fi. Marking the Calendar as 'Exclude' will not remove it or send a Delete from Ed-Fi.

Course Transcript Records

The Course Transcript resource will report grading data from Courses with a state reported grading task that is attached to a Course with a state code. It should be noted that the state course code is a part of the natural key and is used as a 'look up' or reference when data is reported, thus it must match the state coding system.

The Attempted Credits and Earned Credits fields cannot report as blank in Ed-Fi so they will be defaulted to '1' to ensure all grading data with a state reported grading task is reported. The Course Attempt Result will reflect whether or not the student has passed based on the Score posted to the grading task that is marked state reported.

Example 1: An Elementary Art Course will report '1' for Attempted Credits and '1' for Earned Credits for an Elementary student.

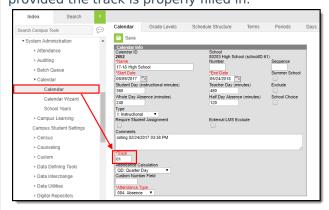
Example 2: A High School Art Course will report '1' for Attempted Credits and '1' for Earned Credits, even if the student failed. The Course Attempt Result will reflect 'Fail'. This will continue to report until the posted grade is posted to the Transcript. When reporting from the Transcript; a High School Art Course will report '1' for Attempted Credits and '0' for Earned Credits when the student has failed. The Course Attempt Result will continue to reflect 'Fail'.



Tracks

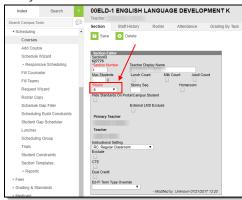
Acceptable Tracks are pre-loaded by ADE. The track number for a calendar must be entered in the Track field in System Administration > Calendar > Calendar in order to report data. Student School Association records report based on the Track field, thus they must match to prevent errors.

Data will report when student enrollments are not present in the calendar. Calendar tracks will send when students are not enrolled in the school, provided the track is properly filled in.



Required Fields

The Room number on the Section editor will become required once Ed-Fi is enabled. This data is required for the section data to send to Ed-Fi. Do a check on all course sections prior to doing a resynch on the Schedule Data to verify all sections have a Room number.





Dual Credit

In order for Sections or Courses to properly report Dual Credit information in the courseCharacteristics element of the Sections resource, the Dual Credit checkbox must be marked on the Course or Section editor.

For the dualCredit element of the Student Section Association resource, the Dual Credit checkbox must be marked on the Course, Section, and Roster Batch Edit editors.

