

Wisconsin Ed-Fi Data v2.0

Last Modified on 03/19/2024 8:29 am CDT

[Understand Object Triggering Tables](#) | [Understand Object Data Element Tables](#) | [Understand Type/Descriptor Tables](#) | [Entities and Elements](#) | [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 article is only for districts on Ed-Fi v2.0. Information on Ed-Fi v3.1 is located in the [Wisconsin Ed-Fi v3.1 article](#).

All resources depend on the selection of a Profile on the [Ed-Fi Configuration](#) tab.

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.

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

- [Wisconsin Ed-Fi Setup Checklist](#)
- [Wisconsin Ed-Fi Scheduled Tasks](#)
- [Wisconsin Ed-Fi Checklist for Starting 2018-2019 School Year](#)
- [Wisconsin Ed-Fi - Career Tech \(CTE\), College & Career Ready \(CCR\), and State Endorsed Regional Career Pathways Setup](#)
- [Ed-Fi v2.0 - Ed-Fi Connection Configuration Tool - Set Resource Preferences](#)
- [Ed-Fi 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:

- [Class Periods](#)
- [Courses](#)
- [Course Offerings](#)
- [Discipline Actions](#)
- [Discipline Incidents](#)
- [Grades](#)
- [Grading Periods](#)
- [Locations](#)
- [Section](#)
- [Sessions](#)
- [Staff](#)

- [Staff Section Association](#)

- Student
- Student Academic Record
- Student CTE Program Associations
- Student Discipline Incident Associations
- Student Homeless Program Association - EdFi WI
- Student Program Association
- Student School Association
- Student Section Association
- Student School Association Wisconsin Ext
- Student Special Education Program Association

Understand Object Triggering Tables

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

Object Triggering Logic
 ✓ [Click here to expand...](#)

This table describes logic for triggering syncing of this object.

Action	Trigger
Post	When a section is created and saved with a Room Number and Section Placement. <div style="border: 1px solid gray; padding: 5px; margin-top: 5px;"> i <ul style="list-style-type: none"> • Room is required • Section Placement must be selected for the Term Type in order for data to send • If course is marked Inactive or State Exclude, data is not sent </div>
Put	When Course information is changed and saved.
Delete	When a section is deleted.
Delete	When a section schedule placement is removed and saved.

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. 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.

This column will indicate if the element is Mandatory, Optional or Conditional.

Object Data Elements
[Click here to expand...](#)

This table describes data elements sent within the Course Offering resource.

Data Element	Description	Mandatory/Optional/Conditional	Campus Database Field	Campus GUI Location
id	The unique identifier of the resource.	M	N/A	N/A
courseReference	Reports the following elements that are part of the Natural Key for the Course resource : <ul style="list-style-type: none"> educationOrganizationReference code 	M	N/A	N/A
schoolReference	Reports the following elements that are part of the Natural Key for the Schools resource : <ul style="list-style-type: none"> schoolId 	M	N/A	N/A
sessionReference	Reports the following elements that are part of the Natural Key for the Sessions resource : <ul style="list-style-type: none"> id schoolReference schoolYearTypeReference 	M	N/A	N/A
localCourseCode	The local code assigned by the LEA or Campus that identifies the organization of subject matter and related learning experiences provided for the instruction of students.	M	Course.number	Scheduling > Course > Number

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.

Type/Description

Expand

This table describes the Ed-Fi Value mapped and reported for **Session Type Descriptor**:

Number of Terms in Term Schedule	Ed-Fi Code Value	Ed-Fi Short Description	Ed-Fi Description
1	FS	Full School Year	Full School Year
2	SE	Semester	Semester
3	TR	Trimester	Trimester
4	QR	Quarter	Quarter
5	QN	Quinsemester	Quinsemester
Any other number of terms not = to one above	XX	Other	Other

Each Type/Descriptor table indicates the mapping used to translate a Campus value to the appropriate Ed-Fi value.

Elements which require a Type/Descriptor table to explain this translation will indicate this need in the description.

Session Type Descriptor	<p>This element reports the Ed-Fi Code value based on the mapping provided in the Session Type Descriptor mapping provided below:</p> <ul style="list-style-type: none"> Report the corresponding Term Type based on the sum of total terms in the term schedule. For example, if 4 terms are created in a Term schedule, a value of Quarter is reported.] <p>This element reports the following additional information:</p>	0					
	<table border="1"> <tr> <td>id</td> <td>The unique identifier of the resource</td> <td>N/A</td> <td>N/A</td> </tr> </table>	id	The unique identifier of the resource	N/A	N/A		
id	The unique identifier of the resource	N/A	N/A				

Example of a Type/Descriptor Table

Entities and Elements

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

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...](#)

Courses

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 Data

▶ [Click here to expand...](#)

Scope Year Logic

▶ [Click here to expand...](#)

Object Data Elements

▶ [Click here to expand...](#)

Course Offerings

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...](#)

Discipline Actions

This event entity represents actions taken by an education organization after a disruptive event that is recorded as a discipline incident.

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...](#)

Discipline Incidents

This event entity represents an occurrence of an infraction ranging from a minor behavioral problem that disrupts the orderly functioning of a school or classroom (such as tardiness) to a criminal act that results in the involvement of a law enforcement official (such as robbery).

A single event (e.g., a fight) is one incident regardless of how many perpetrators or victims are involved. Discipline incidents are events classified as warranting discipline action.

Object Triggering Logic

▶ [Click here to expand...](#)

Scope Year Logic

▶ [Click here to expand...](#)

Object Data Elements

▶ [Click here to expand...](#)

Grades

This educational entity represents an overall score or assessment tied to a course over a period of time (i.e., the grading period). Student grades are usually a compilation of marks and other scores.

Object Triggering Logic

▶ [Click here to expand...](#)

Scope Year 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 an calendar event in the Calendar Dates resource before Grading Periods can send.

2018-2019 Configurations and Later

▶ [Click here to expand...](#)

2017-2018 Configurations Only

▶ [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...](#)

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.

This entity reports per section per term type combination.

Object Triggering Logic

▶ [Click here to expand...](#)

Scope Year Logic

▶ [Click here to expand...](#)

Object Data Elements

▶ [Click here to expand...](#)

Type/Descriptor Layout

▶ [Click here to expand...](#)

Appendix

▶ [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/Descriptors

▶ [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/Descriptors

▶ [Click here to expand...](#)

Staff Section Association

This association indicates the course sections to which a staff is assigned

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...](#)

Student

This association reports student demographic data.

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 Layout

▶ [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...](#)

Type/Descriptor Layout

▶ [Click here to expand...](#)

Student CTE Program Associations

This resource reports several different sets of distinct data to the state based on the Program set up of a CTE Program and the Student's associated CTE Program record. The object triggering requirements and data elements report differently for each of the three main data sets.

Object Triggering Logic

▶ [Click here to expand...](#)

Scope Year Logic

▶ [Click here to expand...](#)

Object Data Elements

▶ [Click here to expand...](#)

Student Discipline Incident Associations

This event entity represents an occurrence of an infraction ranging from a minor behavioral problem that disrupts the orderly functioning of a school or classroom (such as tardiness) to a criminal act that results in the involvement of a law enforcement official (such as robbery).

A single event (e.g., a fight) is one incident regardless of how many perpetrators or victims are involved. Discipline incidents are events classified as warranting discipline action.

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...](#)

Student Homeless Program Association - EdFi WI

An Ed-Fi Homeless record posts for every Student School Association record that posts for a student that overlaps the dates of the Homeless Program Participation record.

Object Triggering Logic

▶ [Click here to expand...](#)

Scope Year Logic

▶ [Click here to expand...](#)

Object Data Elements

▶ [Click here to expand...](#)

Student Program Association

This association represents the Program(s) that a student participates in or is served by.

A student may have multiple records; one for each program they participate in.

Object Triggering Logic

▶ [Click here to expand...](#)

Scope Year Logic

▶ [Click here to expand...](#)

Object Data Elements

▶ [Click here to expand...](#)

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 Association Wisconsin Extension

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

Additional logic is associated with this resource. See the [Ed-Fi District and School Agency Codes and Keys](#) article for more information.

Object Triggering Logic

▶ [Click here to expand...](#)

Scope Year Logic

▶ [Click here to expand...](#)

Object Data Elements

▶ [Click here to expand...](#)

Type/Description Layout

▶ [Click here to expand...](#)

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...](#)

Student Special Education Program Association

This resource reports the Special Education data for a student.

Object Triggering Data

▶ [Click here to expand...](#)

Scope Year Logic

▶ [Click here to expand...](#)

Object Data Elements

▶ [Click here to expand...](#)

Type/Descriptor Layout

▶ [Click here to expand...](#)

Additional Logic and Considerations

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

Ed-Fi Transfer School ID

This field needs to be populated in order for the expectedTransferSchoolReference value to report on the Student School Association Wisconsin Extension. Enter the School Agency Key in the Ed-Fi Transfer School ID field on the Enrollment editor. If this field is not null on the most recent enrollment in the school, the Ed-Fi Code for the value entered reports; otherwise, the field reports blank.

The screenshot shows a 'State Reporting Fields' form with various sections. The 'Ed-Fi Transfer School ID' field is highlighted with a red box. Other fields include State Exclude, CWCS Exclude, WSL/MS/SES Exclude, P-1563 Exclude, Grade 13 (CTEERS Only), CWCS Enroll Date, ISES Yrs US Sch Date, Long Term US Student Y: Yes, Census Status, 3rd party Service Provider, Choice Student N: No, Resident District, Serving District, Non-Resident Reason, Payer, Transfer District, Ed-Fi Transfer School ID, Resident School, School Override, Percent Enrolled, Membership Override, Attendance Override, Title 1, Migrant Indicator, Homeless, Gifted/Talented, Section 504, Neglected, Parent, Disadvantaged - Alt Mechanism, Immigrant, Testing Status, Expected to Test, Coord. Early Intervention, 30 hr Voluntary Grad Req, Adjudicated, and Corrections Placement.

Also see the [Ed-Fi District and School Agency Codes and Keys](#) article for a list of School Agency Keys to populate this field.

No Show/Excludes

If State Exclude, No Show, or WISE Exclude are marked or unmarked on an enrollment the record, they will be deleted/added from Ed-Fi.

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.