

# Michigan Ed-Fi Data v3.1 - Student School Attendance Event

Last Modified on 03/11/2024 8:46 am CDT

**Classic View:** System Administration > Ed-Fi

**Search Terms:** Ed-Fi

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

## Object Triggering Logic

This table describes logic for triggering syncing of this object.

Action	Trigger
Post	<p>When a new attendance event is verified for a student and has a mapped Ed-Fi Code that is more than 50% of the student's day:</p> <ul style="list-style-type: none"> <li>Report attendance for each school the student has a Student School Association record for.</li> <li>Attendance date must fall on or between enrollment start and end dates.</li> <li>Unknown attendance events will not send an event to Ed-Fi. The original post will not appear until an excuseID is entered in the attendance table.</li> <li>Do not send records if attendance records are associated with a Calendar when the Exclude checkbox is checked.</li> <li>A record will send for each distinct Date and Attendance Event Category Descriptor.</li> <li>Do not send records if attendance records are associated with a School when the Exclude checkbox is checked.</li> <li>Do not send a record if enrollment is marked as No Show or State Exclude.</li> </ul>
Put	<p>N/A - only deletes and posts are sent for this Resource.</p> <ul style="list-style-type: none"> <li>If an attendance status is changed, the first event must be deleted from ed-fi and a new record sent. The Attendance Event Category Descriptor is a primary key and does not allow updates in Ed-Fi</li> </ul>
Delete	Delete attendance record if attendance is removed for the day and determined present minutes or present periods is 50% or more. MSDS Attendance Model for the day will need to be referenced.
Delete	When an enrollment is deleted or the No Show or State Exclude check boxes are checked.

## School Exclude, Calendar Exclude, Resource Toggle and Resync Logic

This table describes the School Exclude, Calendar Exclude, Resource Toggle and Resync logic of this object.

Action	Trigger
None	If a resource is toggled to 'OFF' after data has sent, all sent data will remain in the ODS but no new data will send.
Resync	If a record is in the Ed-Fi Identity Mapping table and not in the ODS, it will be deleted from the Ed-Fi Identity Mapping table.
Resync	If a record is in the ODS and it does not have a matching record in Campus or the Ed-Fi Identity Mapping table, it will be deleted from the ODS.
Resync	If a mapping is changed in Resource Preferences, a resync will need to be done to reflect the changes.

## Natural Key Changes, Cascading Updates, and Deletes Logic

This table describes the Natural Key Changes/Cascading Updates and Deletes logic of this object.

Action	Trigger
Post/Delete	<p>If any part of the Natural Key Changes</p> <ul style="list-style-type: none"> <li>• If the School ID changes, all data will remain under the old number and a resync will need to be completed to populate data under the new number. The delete tool would need to be used to remove all data from the old School ID. If an Ed-Fi ID changes, this will happen with the cascading deletes from the Ed-Fi ID Change trigger.</li> <li>• The natural key changes for Student and Sessions will result in a delete/post of Student School Attendance Events.</li> <li>• If the Attendance Status, Excuse or Date changes a delete/post will occur.</li> </ul>

## Scope Year Logic

This table describes scope year logic of this object.

Logic
<p>Attendance will send to the scope year for the school year the attendance dates are associated with based on the student's enrollment.</p> <ul style="list-style-type: none"> <li>• Data will only send for the years that have valid configuration.</li> </ul>

## Resource Preferences

This table describes the Resource Preferences of this object.

Data Element Label	Mapping Needed
Attendance Status and Excuse	Attendance Event Category Descriptors

## Event Queue Detail

This table describes the Event Queue Detail of this object.

Campus Table	Ed-Fi Action	Fields
attendance	Post/Put/Delete	The primary table used for sending data for this resource.

## Object Data Elements

This table describes data elements sent within the Student School Attendance Event resource.

Data Element Label	Business Requirement	Business Rules	M, C or O	Data Source GUI Path	Database Field														
id	The unique identifier of the resource.		M																
<b>attendanceEvent CategoryDescriptor</b>	Key for Attendance Event Category Type.	<p>Report the mapped Ed-Fi Code from the Attendance Event Category Descriptor:</p> <ol style="list-style-type: none"> <li>If a day contains a mix of attendance statuses, report code associated with the majority of time/periods.</li> </ol> <table border="1"> <thead> <tr> <th>Business Rule</th> <th>UI Path</th> </tr> </thead> <tbody> <tr> <td>If student's enrolled grade has an MSDS Attendance Model that is Minute Based or NULL use the following calculation:</td> <td>Student Information &gt; General &gt; Enrollments &gt; Grade Sys Admin &gt; Calendar &gt; Grade Levels &gt; MSDS Attendance Model</td> </tr> <tr> <td><b>Whole Day Present</b> Student SUM of absence minutes is 50% or less than the scheduled Instructional minutes for the day.</td> <td></td> </tr> <tr> <td><b>Whole Day Absent</b> Student SUM of absence minutes is more than 50% of scheduled Instructional minutes for the day.</td> <td></td> </tr> <tr> <td>If student's enrolled grade has an MSDS Attendance Model = Period Based use the following calculation:</td> <td>Student Information &gt; General &gt; Enrollments &gt; Grade Sys Admin &gt; Calendar &gt; Grade Levels &gt; MSDS Attendance Model</td> </tr> <tr> <td><b>Whole Day Present</b> Student is flagged as absent for 50% or less than the number of scheduled instructional periods for the day.</td> <td></td> </tr> <tr> <td><b>Whole Day Absent</b> Student is flagged as absent for more than 50% of scheduled Instructional periods for the day.</td> <td></td> </tr> </tbody> </table>	Business Rule	UI Path	If student's enrolled grade has an MSDS Attendance Model that is Minute Based or NULL use the following calculation:	Student Information > General > Enrollments > Grade Sys Admin > Calendar > Grade Levels > MSDS Attendance Model	<b>Whole Day Present</b> Student SUM of absence minutes is 50% or less than the scheduled Instructional minutes for the day.		<b>Whole Day Absent</b> Student SUM of absence minutes is more than 50% of scheduled Instructional minutes for the day.		If student's enrolled grade has an MSDS Attendance Model = Period Based use the following calculation:	Student Information > General > Enrollments > Grade Sys Admin > Calendar > Grade Levels > MSDS Attendance Model	<b>Whole Day Present</b> Student is flagged as absent for 50% or less than the number of scheduled instructional periods for the day.		<b>Whole Day Absent</b> Student is flagged as absent for more than 50% of scheduled Instructional periods for the day.		M		v_AttDailyDataunexcused  v_AttDailyData tardies
Business Rule	UI Path																		
If student's enrolled grade has an MSDS Attendance Model that is Minute Based or NULL use the following calculation:	Student Information > General > Enrollments > Grade Sys Admin > Calendar > Grade Levels > MSDS Attendance Model																		
<b>Whole Day Present</b> Student SUM of absence minutes is 50% or less than the scheduled Instructional minutes for the day.																			
<b>Whole Day Absent</b> Student SUM of absence minutes is more than 50% of scheduled Instructional minutes for the day.																			
If student's enrolled grade has an MSDS Attendance Model = Period Based use the following calculation:	Student Information > General > Enrollments > Grade Sys Admin > Calendar > Grade Levels > MSDS Attendance Model																		
<b>Whole Day Present</b> Student is flagged as absent for 50% or less than the number of scheduled instructional periods for the day.																			
<b>Whole Day Absent</b> Student is flagged as absent for more than 50% of scheduled Instructional periods for the day.																			

Data Element Label	Business Requirement	Business Rule	UI Path	M, C or O	Data Source GUI Path	Database Field						
		<p><b>Absent</b> is defined by the following attendance code combinations:</p> <table border="1" data-bbox="655 389 903 539"> <thead> <tr> <th>Status</th> <th>Excuse</th> </tr> </thead> <tbody> <tr> <td>Absent</td> <td>Excused</td> </tr> <tr> <td>Absent</td> <td>Unexcused</td> </tr> </tbody> </table> <p>Attendance is calculated from the student's schedule in both attendance models.</p> <p>Scheduled period must be marked as Instructional.</p> <p>Course must be marked for Attendance.</p> <p>Day must be marked as Instructional</p>	Status	Excuse	Absent	Excused	Absent	Unexcused				
Status	Excuse											
Absent	Excused											
Absent	Unexcused											
<b>eventDate</b>	Date for this attendance event.	1. Enter the date for the attendance record being reported.		M	Attendance>Date	attendance.date						
<b>schoolReference</b>	A reference to the related School resource.	1. Reports the fields that are part of the Natural Key for the School resource.		M								
<b>sessionReference</b>	A reference to the related Session resource.	1. Reports the fields that are part of the Natural Key for the Sessions resource. 2. Only report the Term Type from the Terms tab that is associated with the date and term schedule the attendance is being reported for.		M								

Data Element Label	Business Requirement	Business Rules	M, C or O	Data Source GUI Path	Database Field
<b>studentReference</b>	A reference to the related Student resource.	1. Reports the fields that are part of the Natural Key for the Student resource.	M		
attendanceEvent Reason	The reported reason for a student's absence.	1. This is optional, does not report.	O		
educationalEnvironment Descriptor	The setting in which a child receives education and related services.	1. This is optional, does not report.	O		
eventDuration	The amount of time for the event as recognized by the school: 1 day = 1, 1/2 day = 0.5, 1/3 day = 0.33.	1. This is optional, does not report.	O		
etag	A unique system-generated value that identifies the version of the resource.		O		

## Type/Descriptor

[▶ Click here to expand...](#)