

# Michigan Ed-Fi Data v3.1 - Sessions

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

**Search Terms:** Ed-Fi

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.

## Object Triggering Logic

This table describes logic for triggering syncing of this object.

Action	Trigger
Post	<p>When a new Term is created and saved that is Mapped to a Term Type and a resync of Sessions is completed.</p> <ul style="list-style-type: none"> <li>• If the same Term Type is selected on multiple Terms, group the Terms together so only 1 record will report per Term Type.</li> <li>• If there are multiple Calendars or Schedule structures in a School with the same Term Types, only 1 record can report to Ed-Fi. Report the earliest Term Start Date and latest Term End Date.</li> <li>• Do not send records if the Calendar Exclude check box is checked.</li> <li>• Do not send if the School is marked as Exclude.</li> </ul>
Post	<p>When a Term Descriptor Override is selected on a Course or Section and saved and the course is mapped to a Term Descriptor Override and a resync of Sessions is completed.</p> <ul style="list-style-type: none"> <li>• The Session will report the start and end dates based on the mapping of the course section.</li> <li>• If the same Term Type is selected in the Terms tab and the Term Type Override, a record will not send from the override field.</li> <li>• Do not send records if the Calendar Exclude check box is checked or Course is marked as Inactive or Exclude.</li> </ul>
Put	When the Grading Period data is changed or the Grading Period record is deleted.
Delete	If the Term is deleted or the mapping is removed the Session record and all dependent data will be removed.

\*\*Start and End dates are not part of the natural Key so only 1 record per Term Type can be sent to Ed-Fi. Logic has been implemented to determine the priority of what start and end dates to use for a Term Type.

## 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.
Delete	If a resource is toggled to 'OFF' after data has sent and an action is performed that would trigger a delete, that data will remain in the ODS until a resync is done.

Action	Trigger
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
Delete/Post	Natural Key change: <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.</li> </ul>
Delete/Post	If the Session Name changes.
Delete/Post	If the natural key changes all dependent resources will delete/post. <ul style="list-style-type: none"> <li>Course Offerings, Sections, Staff Section Associations, Student Section Associations, Student Section Attendance Events, Grades.</li> </ul>

## Scope Year Logic

This table describes scope year logic of this object.

Logic
Reports Sessions for the scope year the to which the calendar is aligned.
Data will only send for the years that have valid configuration.

## Resource Preferences

This table describes the Resource Preferences of this object.

Data Element Label	Mapping Needed
Term Detail	Term Descriptors
Course/Section	Term Descriptor Overrides

## Identity Mapping Object Key

This table describes the Identity Mapping Object Key of this object.

**\*If there are multiple terms, overridden courses, or overridden sections in a school with the same term descriptor, there will be an identity mapping record for each Campus record and they will have the same edFiIdentityID.**

Where Posting From	campusObjectType	Object Key Data Source
Course override	Course	courseID
Section override	Course	courseID-sectionID
Term	Term	termID

## Event Queue Detail

This table describes the Event Queue Detail of this object.

Campus Table	Ed-Fi Action	Fields
Term	Post/Put/Delete	The primary table used for sending data for this resource.
Course	Post/Put/Delete	The primary table used for sending data for this resource.
Section	Post/Put/Delete	The primary table used for sending data for this resource.
sectionPlacement	Put	Start/End Date

## Error Log

This table describes the Error logic of this object.

Error	Possible Causes/How to Fix
Error code return from Ed-Fi. 400: [message:Validation of 'Session' failed. BeginDate is required. BeginDate : '1/1/0001 12:00:00 AM' must be within SQL datetime range ('1/1/1753 12:00:00 AM' to '12/31/9999 11:59:59 PM') EndDate is required. EndDate : '1/1/0001 12:00:00 AM' must be within SQL datetime range ('1/1/1753 12:00:00 AM' to '12/31/9999 11:59:59 PM') ].	Term start or end dates are missing

## Object Data Elements

This table describes data elements sent within the Sessions resource.

Data Element Label	Business Requirement	Business Rules	M, C or O	Data Source GUI Path	Database Field
<b>id</b>	The unique identifier of the resource.		M		
<b>SessionName</b>	The identifier for the calendar for the academic session.	Reports the Term Descriptor of the Term(s) being reported.	M	System Administration> Ed-Fi> Configuration> Resources Preferences> Sessions> Ed-Fi Code	edfimapping edFiValue
<b>schoolReference</b>	A reference to the related School resource.	Reports the fields that are part of the Natural Key for the School resource.	M		
<b>schoolYearTypeReference</b>	A reference to the related SchoolYearType resource.	Reports the end year from the calendar the term is reported. 1. Reports 'XXXX'.	M		
academicWeeks	An unordered collection of sessionAcademicWeeks.	This is optional, do not report.	O		
beginDate	The Term start date.	When reporting from a Term Schedule, report the start date of the term being reported. 1. If more than 1 term has the same Term Type selected, report the earliest start date. 2. When reporting from a Term Type Override on a Course or Section. ◦ Report the earliest term start date based on all sections with the same Term Override.	M	System Administration> Calendar> Calendar> Terms> Start Date	term.startDate

Data Element Label	Business Requirement	Business Rules	M, C or O	Data Source GUI Path	Database Field
endDate	The Term end date.	<ol style="list-style-type: none"> <li>1. When reporting from a Term Schedule, report the end date of the term being reported .               <ul style="list-style-type: none"> <li>◦ If more than 1 term has the same Term Type selected, use the latest end date.</li> </ul> </li> <li>2. When reporting from a Term Type Override on a Course or Section.               <ul style="list-style-type: none"> <li>◦ Report the latest end date based on all sections with the same Term Override.</li> </ul> </li> </ol>	M	System Administration> Calendar> Calendar> Terms> End Date	term.endDa
gradingPeriods	An unordered collection of sessionGradingPeriods.	See the Grading Periods in the Array section below for logic.	O		

Data Element Label	Business Requirement	Business Rules	M, C or O	Data Source GUI Path	Database Field
termDescriptor	This descriptor defines the term of a session during the school year (e.g., Fall Semester).	<ol style="list-style-type: none"> <li>1. When reporting from Term Descriptors mapping, report the Ed-Fi Code for the value selected               <ul style="list-style-type: none"> <li>◦ When Ed-Fi Term Type = Null, or when no Ed-Fi code exists, do not report.</li> </ul> </li> <li>2. When reporting from the Term Descriptor Overrides, report the Ed-Fi code value selected.</li> </ol>	M	System Administration> Ed-Fi> Configuration> Resources Preferences> Sessions> Ed-Fi Code	edfimapping edFiValue

Data Element Label	Business Requirement	Business Rules	M, C or O	Data Source GUI Path	Database Field
totalInstructionalDays	Total Days in Session.	<ol style="list-style-type: none"> <li>1. When reporting from Term Schedule, count the total number of instructional days from the Days tab from the calendar and schedule structure the term is associated with.               <ul style="list-style-type: none"> <li>◦ A day reset must be completed before the days will calculate. Use the resync after day reset is completed to have instructional days calculated and sent.</li> <li>◦ If more than 1 term schedule has the same Term Type, count the distinct number of instructional days from all terms for that Term Type.</li> </ul> </li> <li>2. When reporting from Term Type Override, count the number of instructional days that fall on/between the start and end dates.</li> </ol>	M	Calculated	

## Arrays

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## Type/Descriptor

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