

# Student School Association (Missouri v3.6)

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

## Object Triggering Logic

This table describes logic for triggering syncing of this object.

Action	Trigger
Post	<p>When a new enrollment is saved for a student. A record reports for each distinct enrollment in a School and Enrollment Start Date.</p> <ul style="list-style-type: none"> <li>When a student has two enrollments in the same School, Calendar and Schedule Structure with the same start date, reports from the enrollment service type in the following order:               <ol style="list-style-type: none"> <li>P: Primary Enrollment</li> <li>S: Partial/Ancillary</li> <li>N: Special Ed Services</li> </ol> </li> <li>When a student has two Primary enrollments in the same school with the same start date, posts the record with the highest enrollment ID.</li> <li>When an enrollment with a higher priority is deleted, the enrollment with lower priority posts a new record.</li> <li>Does not send records when the Calendar Exclude check box is checked in the calendar the student is enrolled.</li> <li>Does not send records when the School Exclude check box is checked in the calendar the student is enrolled.</li> <li>Does not send a record when the No Show check box is checked.</li> </ul>
Post	<ul style="list-style-type: none"> <li>When the start date for an enrollment is changed.</li> <li>When an enrollment with a lower priority is changed, data does not send.</li> </ul>
Put	<ul style="list-style-type: none"> <li>When an enrollment is updated for a student.</li> <li>When a student's start status is changed.</li> <li>When a student's end status is changed.</li> <li>When a student's grade level is changed.</li> <li>When a student's School Choice checkbox is checked or unchecked.</li> <li>When a student's Resident District or Service District fields are changed.</li> </ul>

Action	Trigger
Delete	<ul style="list-style-type: none"> <li>When an enrollment is deleted.</li> <li>When a student has two enrollments in the same school for the same start date, records with lower priority does not trigger a delete.</li> <li>When the start date of an enrollment is changed.</li> <li>When the No Show check box is checked.</li> </ul>

## Resource Toggle and Resync Logic

This table describes the Resource Toggle and Trigger logic of this object.

Action	Business Rule
None	When a resource is toggled to off after data has sent, all sent data remains in the ODS but no new data sends.
Put	When the natural key of the Calendar Reference is changed, a put is done to update the Calendar Reference even if the Student School Association resource is turned off.
Resync	When a record is in the Ed-Fi Identity Mapping table and not in the ODS, it is deleted from the Ed-Fi Identity Mapping table.
Resync	When a record is in the ODS and it does not have a matching record in Campus or the Ed-Fi Identity Mapping table, it is deleted from the ODS.
Resync	When a mapping is changed in Resource Preferences, a resync needs 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	Business Rule
Post/Delete	<p>Natural Key changes:</p> <ul style="list-style-type: none"> <li>When the School Number/Ed-Fi School Number changes, a delete/post occurs with the cascading deletes from the School ID Change triggers.</li> <li>When an Ed-Fi ID changes, this happens with the cascading deletes from the Ed-Fi ID Change trigger.</li> <li>When the enrollment start date changes, all dependent resources are deleted and reposted. When a dependent resource is turned off, all dependent resources are deleted and not reposted.</li> </ul>

Action	Business Rule
Delete	<p>Cascading Deletes: When the Student School Association is deleted, all dependent resources are deleted.</p> <ul style="list-style-type: none"> <li>Student Parent Associations, Student Education Organization Associations, Student Section Associations, Graduation Plans, Student Program Associations, Student CTE Program Associations, Student Special Education Program Associations, Student Title 1 Part A Program Associations, Student Academic Records, Course Transcripts, Grades, Student Discipline Incident Associations, Discipline Actions, Student Cohort Associations, Student School Attendance Events, Student Section Attendance Events</li> </ul>

## Scope Year Logic

This table describes scope year logic of this object.

Logic
The record sends to the scope year for the school year the enrollment is associated with.
Data only sends for the years that have valid configuration.

## Resource Preferences

This table describes the Resource Preferences of this object.

Data Element Label	Mapping Needed
Entry Type Descriptors	Enrollment Start Status
Exit Withdraw Type Descriptors	Enrollment End Status
Residency Status Descriptors	Enrollment State Aid

## Identity Mapping Object Key

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

campusObjectType	Object Key Data Source
Enrollment	enrollmentID

## Event Queue Detail

This table describes the Event Queue Detail of this object.

Campus Table	Ed-Fi Action	Fields
enrollment	Post/Put/Delete	The primary table used for sending data for this resource.
person	Post/Delete	Student ID in Student Reference
graduation	Put	Class of School Year Type Reference
programs	Put	Graduation Plan Reference
programparticipation	Put	Graduation Plan Reference

## Object Data Elements

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

Data Element Label	Business Requirements and Rules	M, C or O	Data Source GUI Path Database Field
id	The unique identifier of the resource.	M	
<b>entryDate</b>	The month, day, and year on which an individual enters and begins to receive instructional services in a campus.  Reports the Enrollment Start Date.	M	Enrollments > Start Date  Enrollment.startdate
calendarReference	A reference related to the Calendar resource.  Reports the fields that are part of the Natural Key for the Calendar resource. The schoolID is the Reporting School.  Calendar is currently not sending at this time.	O	
<b>schooReference</b>	A reference to the related School resource.  Reports the fields that are part of the Natural Key for the School resource. The schoolID is the Reporting School.	M	District ID + SchoolID

Data Element Label	Business Requirements and Rules	M, C or O	Data Source GUI Path Database Field
schoolYearTypeReference	<p>The school year in which the student is being reported.</p> <p>Reports the fields that are part of the Natural Key for the School Year. The schoolYear is the end year of the calendar.</p>	M	
<b>studentReference</b>	<p>A reference to the related Student resource.</p> <p>Reports the fields that are part of the Natural Key for the Student resource. The schoolID is the Student State ID.</p>	M	
entryGradeLevelDescriptor	<p>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.</p> <p>Reports the Ed-Fi Code from the Grade Level mapping for the grade selected on the student's Enrollment.</p> <p>When a mapping is not available, the record errors.</p>	M	Enrollments > Grade  Enrollment.grade
entryTypeDescriptor	<p>A unique identifier used as Primary Key, not derived from business logic, when acting as Foreign Key, references the parent table.</p> <p>Reports the Ed-Fi Code Value mapped to the Start Status selected.</p> <p>When blank, does not report.</p>	O	Enrollments > Start Status  Enrollment.startStatus

Data Element Label	Business Requirements and Rules	M, C or O	Data Source GUI Path Database Field
exitWithdrawDate	<p>The month, day, and year of the first day after the date of an individual's last attendance at a campus (when known), the day on which an individual graduated, or the date on which it becomes known officially that an individual left school. NEDM: Exit/Withdraw Date.</p> <p>Reports the Enrollment End Date.</p>	O	<p>Enrollments &gt; End Date</p> <p>Enrollment.endDate</p>
exitWithdrawTypeDescriptor	<p>A unique identifier used as Primary Key, not derived from business logic, when acting as Foreign Key, references the parent table.</p> <p>Reports the Ed-Fi Code Value from the End Status selected.</p> <p>When blank, does not report.</p>	O	<p>Enrollments &gt; End Status</p> <p>enrollment.endStatus</p>
residencyStatusDescriptor	<p>An indication of the location of a persons legal residence relative to (within or outside of) the boundaries of the public school attended and its administrative unit.</p> <p>Reports the State Code from State Aid. When blank, reports as R1.</p>	O	<p>Enrollments &gt; State Aid</p> <p>enrollment.stateAid</p>
schoolChoiceDescriptor	Does not report.		
ExtendedSchoolHours	Does not report.		
FollowUpZip	Does not report.		
HoursInSession	Does not report.		
hsCareerEdDescriptor	Does not report.		

Data Element Label	Business Requirements and Rules	M, C or O	Data Source GUI Path Database Field
InBuildingLessThanYearIndicator	<p>Indicates whether any student who was not enrolled in the building the last Wednesday in September OR was not enrolled in the building during the MAP administration OR was not enrolled in the building at least half of the eligible days between the last Wednesday in September and the MAP administration.</p> <p>Considers all enrollments for the school year at same school as well as dual-enrolled students UNLESS:</p> <ol style="list-style-type: none"> <li>1. Grade Level flagged as Exclude from state reporting (Calendars &gt; Grade Levels).</li> <li>2. Calendar flagged as Exclude (Calendar &gt; Calendars).</li> <li>3. Student flagged as State Exclude (Enrollments &gt; State Reporting Fields).</li> <li>4. Student flagged as No Show (Enrollments &gt; General Enrollment Information).</li> </ol> <p>When the student is not enrolled on the MAP administration date set by the user in the Ed-Fi Configuration tool and/or not enrolled at least half of the eligible days between the last Wednesday in September and the MAP administration date set by the user in the Ed-Fi Configuration tool and/or no enrolled on the last Wednesday in September, Y reports.</p> <p>Otherwise, reports as N.</p>	M	<p>Enrollments &gt; Start Date</p> <p>Enrollments.startDate</p>
instructionMethodDescriptor	Does not report.		
RegularHourrsAttended	<p>Number of full-time and part-time hours the student spent in attendance at the attending district.</p> <p><b>Override:</b> When there is already a value in the RegHrsAttended Field</p>	M	<p>Enrollments &gt; Regular Hours Attended</p> <p>Virtual Course Logic: Course or Section &gt; Online Learning</p>

Data Element Label	<p>on Enrollments, that value report.</p> <p><b>Business Requirements and Rules</b></p> <p>When the value is calculated:</p> <ol style="list-style-type: none"> <li>Instructional Minutes sum minus absent minutes within school year start and end dates.</li> </ol>	M, C or O	(Section acts as an override of Course, if they differ) <b>Data Source GUI Path Database Field</b>
	<ol style="list-style-type: none"> <li>Looks at student's entire schedule and sum each scheduled day's instructional minutes within school year start and end dates. Minus out absent minutes. Converts to hours for reporting. <ul style="list-style-type: none"> <li>Period must be instructional.</li> <li>Course must be checked for Attendance.</li> <li>Period Absent and Excuse = Excused, Unknown or Unexcused.</li> </ul> </li> <li>Compares the roster date to the term date. Looks for the maximum start date between the term and the roster start date whichever is the latest. For example, term date starts 9/1/08 and roster date starts 10/15/08 THEN start date should be 10/15/08 OR term date is 11/01/08 but roster start date is 8/15/08 THEN start date should be 11/01/08. Look for the minimum End Date of the Term Date and the Roster Date whichever comes first.</li> <li>Aggregates all the minutes attended for each term. Subtract absent minutes from sum of instructional minutes.</li> <li>Converts the minutes to hours and report.</li> </ol> <ul style="list-style-type: none"> <li>Must return 0 when the End Date and Start Date of the</li> </ul>		



Data Element Label	<p>enrollment are both on the first day of the school year.</p> <p><b>Business Requirements and Rules</b></p> <ul style="list-style-type: none"> <li>Otherwise, must returns a value greater than 0 when the Grade Level is not PK.</li> </ul>	M, C or O	Data Source GUI Path Database Field
	<p>Virtual Course logic:</p> <ul style="list-style-type: none"> <li>Course or Section &gt; Online Course is Yes.</li> <li>When multiple online courses are skinnied with other online courses, sums all minutes for online courses in the skinnied period (regular courses that are skinnied, only one courses is calculated). When online and regular courses are skinnied, all online course minutes/hours are calculated and one of the regular courses is summed.</li> </ul> <p>First, uses the current attendance calculation but excludes all course and sections marked Online as Yes, from the calculation.</p> <p>94% Calculation: Once initial calculation is complete, looks for Transcript entries during that year marked Online is Yes. When a Transcript entry exists, looks for that course/section that the student was enrolled, calculate all hours of the course and add 94% of those hours to the first attendance calculation for Regular Hours Attended.</p> <p>47% calculation: Now, looks for courses marked Online is Yes, when no transcript detail exists for the course, calculates all hours of the course/section and add 47% of those hours to the first attendance calculation for Regular Hours Attended.</p> <p>When student roster start date and end date are the same, (=) do NOT calculate hours.</p> <p>95% Calculation: When Online Course &gt; Program is 50: Missouri</p>		

Data Element Label	Virtual Instructional Program or 52: MOCAP, find students where State Reporting Fields > A+ Student = Y: Yes. Once initial calculation is complete, looks for Transcript	M, C or O	Data Source GUI Path Database Field
	<p>entries during that year marked Online is Yes. When a Transcript entry exists, look for that course/section that the student was enrolled, calculates all hours of the course and add 95% of those hours to the first attendance calculation for Regular Hours Attended.</p> <p>47% calculation: Now, looks for courses marked Online as Yes, when no transcript detail exists for the course, calculates all hours of the course/section and add 47% of those hours to the first attendance calculation for Regular Hours Attended.</p> <p>When student roster start date and end date are the same, (=) does NOT calculate hours.</p> <p>Regular hours attended cannot exceed Calendar Instructional minutes. Must report regular hours attended = calendar minutes when they exceed calendar instructional minutes, for the entire calculation. Hours are removed from the virtual records to cap at calendar instructional minutes as of current date.</p> <p>When multiple online courses are skinned into a period, counts the full period for each course. Ex: 2 online courses skinned into a period with 60 minutes, each course calculates the 60 minutes.</p> <p>Absent calculation is not done for online courses. Even if there is an absence for the period do not calculate minutes out. Just calculate all the hours and add to regular hours attended, either 94% of hours</p>		

Data Element Label	<p>or 47% of hours depending on transcript detail entry. The regular hours absent field needs to change to not calculate absences in courses/sections marked Online.</p> <p><b>Business Requirements and Rules</b></p>	M, C or O	Data Source GUI Path Database Field
	<p>Competency Based Attendance Logic: Sums minutes of Course/Section checked Competency Based within school year dates. Multiplies by Prior year ADA% on District History (Sys Admin &gt; Resources &gt; District Info) record closest to current date but not greater than school year end date. Add sum to calculations above.</p> <p>Partial Week calc: our calculation uses sql datediff for weeks. This means that in this case, the week will be counted in term 3, but not in term 4. Datediff essentially count week transitions (think crossovers from saturday to sunday). A term with the dates: '01/07/2022', and '03/09/2022' counts weeks like this: SELECT CONVERT(DEC(7,1),DATEDIFF(WEEK,'01/07/2022', '03/09/2022')) = 9.</p> <p>A term with dates like this: '03/10/2022', and '05/25/2022' is like so: SELECT CONVERT(DEC(7,1),DATEDIFF(WEEK,'03/10/2022', '05/25/2022')) = 11.0</p>		

Data Element Label	Business Requirements and Rules	M, C or O	Data Source GUI Path Database Field
RegularHoursAbsent	<p>Number of hours the student was absent at the attending district.</p> <p><b>Override:</b> when there is already a value in the RegHrsAbsent Field on Enrollments, reports that value DOES NOT calculate.</p> <p>Status = Absent and Excuse = Excused, Unknown or Unexcused.</p> <p>Reports 0 when the End Date and Start Date of the enrollment are both on the first day of the school year.</p> <p>Reports as a whole number, but calculated in minutes and then converted to hours and rounded to the full hour.</p>	M	Enrollments > Regular Hours Absent
RemedialHoursAttended	Does not report.		
ReportComment	Does not report.		
SummerAttendanceHours	Does not report.		
SummerMembership	Does not report.		
TeacherName	<p>Reports Precode Teacher from the school year.</p> <p>When Precode Teacher is blank, then reports Homeroom Teacher from Course &gt; Section &gt; Teacher with Homeroom checkbox marked. The course must be:</p> <ul style="list-style-type: none"> <li>• In the current school year.</li> <li>• The most recently rostered section for which there is a Precode Teacher (Section Editor).</li> <li>• When none of the above, then reports the school name.</li> </ul>	O	<p>Enrollments &gt; State Reporting Fields &gt; Precode Teacher</p> <p>Course &gt; Section &gt; Teacher</p> <p>School &gt; School Detail &gt; Name</p>

## Type/Descriptor

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