

Student Academic Records (Missouri v3.6)

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

Object Triggering Logic

This table describes logic for triggering syncing of this object.

Action	Trigger
Post	<p>Report a Student Academic Record instance for each school year in which the student has a transcript record and they have a Student School Association record for the configured year</p> <p>When Term Type cannot be determined on a Transcript record, provide an error with the following message, "Could not identify a valid term type for transcript record"</p> <p>A post to update the Cumulative Earned Credits and Cumulative Attempted Credits fields when the Attempted and Earned Credit fields are updated or a new transcript record is added added/deleted with an Attempted/Earned Credit Value that is not null and is greater than 0.</p> <p>Does not send a record when the transcript's score is null</p>
Post/Put	<p>When a student is given a Diploma Date and Diploma Type.</p> <p>Only posts for the records in the Student Academic Record (SAR) and configured year the Diploma Date is associated.</p> <p>When the student already has SAR records from posted Transcript records, updates the existing record with the Diploma information.</p> <ul style="list-style-type: none"> When all of the student's transcript records are deleted, a new SAR will post from the Diploma Record. <p>When the student does not have any SAR records from posted Transcript records, creates 1 SAR record to report the Diploma information</p> <ul style="list-style-type: none"> When the Term Descriptor cannot be determined, provides an error with the following message, "Could not identify a valid term type for diploma record" When the Diploma date and/or Diploma Type fields are made NULL, the Student Academic Record record deletes.

Action	Trigger
Delete	<p>When records are posted from course transcript records and no Diploma information exists, all Student Academic Records only delete when a student has only 1 Student School Association record for a specific Year and all Student School Association records are deleted.</p> <p>When a Graduation record is deleted and the student does not have any transcript records that would create a Student Academic Record.</p> <p>When the Diploma Date is changed to no longer occur in the configured year and the student does not have any transcript records that would create a Student Academic Record.</p>

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	When a resource is toggled to off after data has sent, all sent data remains in the ODS but no new data sends.
Delete	When a resource is toggled to off after data has sent and an action is performed that would trigger a delete, that data remains in the ODS until a resync is done.
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	Trigger
Delete/Post	<p>When any part of the Natural Key Changes</p> <ul style="list-style-type: none"> When the District Number changes all data will remain under the old number. The delete tool would need to be used to remove all old data.
Delete/Post	When an Ed-Fi ID changes, this happens with the cascading deletes from the Ed-Fi ID Change trigger.
Delete/Post	When the End Year the transcript record or diploma record is aligned to changes.
Delete/Post	When the Term Descriptor is changed.
Delete/Post	When the natural key changes all dependent resources will delete/post.

Action	Trigger
Dependent Resources	Course Transcripts

Scope Year Logic

This table describes scope year logic of this object.

Logic
Records send to each scope year in which the Course Transcript record is posted.
Records only post to the SAR records for the year the diploma date occurs in but SAR records post to all scoped years. <ul style="list-style-type: none"> The Diploma Date must be on or after the school year's start date and on or before the school year's end date defined in the School Years editor. When blank, the default start date of 7/1/xxxx and end date of 6/30/xxxx are used.
Data only sends for years that have a valid configuration.

Resource Preferences

This table describes the Resource Preferences of this object.

Data Element Label	Mapping Needed
Diploma Type Descriptors	Graduation Diploma Type

Identity Mapping Object Key

This table describes the Resource Preferences of this object.

Campus Object Type	Object Key Data Source
TranscriptCourse	transcriptID
Graduation	graduationID

Event Queue Detail

This table describes the Event Queue Detail of this object.

Campus Table	Ed-Fi Action	Fields
transcriptcourse	Post/Put/Delete	The primary table used for sending data for this resource.
graduation	Post/Put/Delete	The primary table used for sending data for this resource.
transcriptcredit	Put	cumulativeAttemptedCredits, cumulativeEarnedCredits, sessionAttemptedCredits, sessionEarnedCredits

Object Data Elements

This table describes data elements sent within the Student Academic Records resource.

Data Element Label	Business Requirement and Business Rules	M, C or O
id	The unique identifier of the resource.	M
termDescriptor	The term for the session during the school year. Uses "Full Year".	M
educationOrganizationReference	A reference to the related Education Organization resource. Reports the District Number based on the Local Education Agency resource logic where the educationOrganizationId is the Reporting District Code.	M
schoolYearTypeReference	A reference to the related SchoolYearType resource. Reports the end year for the transcript record being reported where the schoolYear is the End Year of School Year.	M
studentReference	A reference to the related Student resource. Reports the fields that are part of the Natural Key for the Students resource where the studentUniqueld is the Student State ID.	M
gradePointAverage	An unordered collection of studentAcademicRecordGradePointAverages. The grade point average for an individual computed as the grade points earned divided by the number of credits attempted. See Arrays section below.	M

Arrays

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Grade Point Average

Data Element	Business Requirement and Business Rules	M, C, or O	Data Source GUI Path
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Data Element	Business Requirement and Business Rules	M,C, or O	Data Source GUI Path
gradePointAverageTypeDescriptor	<p>The system used for calculating the grade point average for an individual.</p> <p>Returns Grading Scale.</p> <ul style="list-style-type: none"> • Required when student is in grade 09 or 10. • Grading scale (11 or 4) used by the district attended by the student. <p>When there is a student who is enrolled in more than one EducationOrganizationId, each having a different GPA scale, we would expect multiple rows for the student in Student Academic Record each linking back to the applicable EducationOrganizationid where the enrollment took place. We do not expect scenarios where a student has both a 4 point GPA and 11 point GPA occurring at the same EducationOrganizationid.</p>	M	Calendar > Calendar Info > GPA Scale

Data Element	Business Requirement and Business Rules	M,C, or O	Data Source GUI Path
gradePointAverageValue	<p>The value of the grade points earned divided by the number of credits attempted.</p> <p>Returns calculation of the sum of all gradepoints (gpaweight multiplied by gpavalue) plus the sum of all GPA weights divided by the sum of all Gradepoints by the sum of all weights from Student Info > General > Transcript > Courses taken in the school year.</p> <ul style="list-style-type: none"> • Required when student is in grade 09 or 10. • Students annual non-cumulative Grade Point Average (GPA). • GPA can be reported with 3 decimal places. 	M	Table "TranscriptCourse"

Descriptors

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Term Descriptor

Code	Description	Namespace	Short Description
0	Full Year	uri://dese.mo.gov/TermDescriptor	Full Year

Grade Point Average Type Descriptor

Code	Description	Namespace	Short Description
C	Content	uri://dese.mo.gov/GradePointAverageTypeDescriptor	Content
N	Not Applicable	uri://dese.mo.gov/GradePointAverageTypeDescriptor	Not Applicable
4	4 Point Scale	uri://dese.mo.gov/GradePointAverageTypeDescriptor	4 Point Scale
11	11 Point Scale	uri://dese.mo.gov/GradePointAverageTypeDescriptor	11 Point Scale