

# Student Assessments (Missouri v3.6)

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Tool Search: Ed-Fi

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 Logic

Action	Trigger
Post	<p>When an Assessment is assigned to a student, and the Assessment date is on or within the config year start and end dates.</p> <ul style="list-style-type: none"> <li>• Does not send when a student does not have an active enrollment on the Assessment start date.</li> <li>• When the student has multiple enrollments that are overlapping in the same school year, reports based on the Service Type: <ul style="list-style-type: none"> <li>◦ P: Primary</li> <li>◦ S: Partial</li> <li>◦ N: Special Education</li> </ul> </li> <li>• When the student only has one enrollment, a record reports regardless of the Service Type.</li> <li>• Does not send a student record for an enrollment that is marked as State Exclude or No Show.</li> <li>• Does not send a record when the enrollment is in a calendar marked as Exclude.</li> <li>• Does not send a record when the enrollment is in a school marked as Exclude.</li> </ul>
Delete/Post	When any part of the natural key is changed.
Put	When any field that is not part of the natural key is changed and saved.
Delete	All valid parent or child assessments are removed from the student.
Delete	<p>When all student's overlapping enrollments are deleted.</p> <ul style="list-style-type: none"> <li>• When a student's enrollment is changed to No Show.</li> <li>• When a student's Test Date no longer matches the scope year.</li> <li>• Note: When the assessment scope year is changed to out of scope and that assessment is already tied to a student (which is still within the scope year), a delete isn't sent for StudentAssessment or Assessment as the record is tied to a student.</li> </ul>

## Scope Year

Logic
<p>Record reports for students where student test records exist within the scope year.</p> <ul style="list-style-type: none"> <li>• Test Date must occur within the Scope Year.</li> </ul>

## Resync Logic

Action	Trigger
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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 is sent.
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.

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

Action	Trigger
Post/Delete	<p>Natural Key changes:</p> <ul style="list-style-type: none"> <li>When an Ed-Fi ID changes, this happens with the cascading deletes from the Ed-Fi ID Change trigger.</li> <li>When the Test Date changes which no longer matches the scope year.</li> </ul>

## Event Queue Detail

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

## Resource Preferences

This table describes the Resource Preferences of this object.

Data Element Label	Mapping Needed
Score Type	Assessment Reporting Method Descriptor
Score Fields Selected	Result Datatype Type Descriptor

## Object Data Elements

Data Element Label	Business Requirement and Rules	M, C, or O	Location
id	The unique identifier of the resource.	M	

Data Element Label	Business Requirement and Rules	M, C, or O	Location
<b>studentAssessmentIdentifier</b>	<p>A unique number or alphanumeric code assigned to an assessment administered to a student.</p> <p>Pass a unique number or alphanumeric code assigned to an assessment administered to a student. (Ex StudentUniqueId + AssessmentIdentifier + SchoolYear)</p>	M	
<b>assessmentReference</b>	<p>A reference to the related Assessment resource.</p> <p>Reports the data that is part of the Natural Key for the Assessment resource</p> <ul style="list-style-type: none"> <li>• assessmentIdentifier = Reports <b>Assessment Type-Subject-EdOrgID</b> (Ex. ASVAB-26006 or EOCFAL-ENGLI2-26006) <ul style="list-style-type: none"> <li>◦ ASVAB <ul style="list-style-type: none"> <li>▪ <b>Assessment Type</b> - Reports ASVAB when a student has a Test Score record with a National Code of ASVAB</li> <li>▪ <b>Subject</b> - NA</li> </ul> </li> <li>◦ EOC Exception <ul style="list-style-type: none"> <li>▪ <b>Assessment Type</b> - Reports EOCEX2 or EOCEX3 or EOCEX4 from the Result field from the student's Assessment list.</li> <li>▪ <b>Subject</b> - Can report one of 2 ways: <ul style="list-style-type: none"> <li>▪ Look for the following user-entered state codes in System Admin&gt; Custom&gt; Attribute/Dictionary&gt; Test&gt; Test Type&gt; Dictionary Detail. If the state codes are not entered on the Dictionary Detail as described above, report value is mapped to the Subject from the Test Detail as follows: <ul style="list-style-type: none"> <li>▪ ENGLI2</li> <li>▪ ALGEB1</li> <li>▪ BIOLO1</li> <li>▪ AMGOV1</li> </ul> </li> <li>▪ <b>OR</b> When Student Info &gt; General &gt; Enrollments &gt; Special Ed Fields &gt; <b>Map-A = checked</b>, report each of the 4 state assessment subject codes (ENGLI2, ALGEB1, BIOLO1, AMGOV1). <ul style="list-style-type: none"> <li>▪ Do not return &gt; 1 record for each of the above state subject codes per</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li> </ul>	M	

Data Element Label	Business Requirement and Rules	M, C, or O	Location
	<p>student in the Subject field. If &gt; 1 assessment record with an EOC exception code exists for a student for one of the 4 required EOCs, use the record where the Date on the Test Score Detail is the most recent.</p> <ul style="list-style-type: none"> <li>◦ EOCFAL, EOCSPR, EOCSUM <ul style="list-style-type: none"> <li>▪ <b>Assessment Type</b> - Reports EOCFAL or EOCSPR or EOCSUM from the Assessment Type field on a student's Course Section.</li> <li>▪ <b>Subject</b> - Reports the subject from the Assessment Subject field on a student's Course.</li> </ul> </li> <li>◦ LEPELL <ul style="list-style-type: none"> <li>▪ <b>Assessment Type</b> - Reports LEPELL when a student has an EL record (status = LEP, Pending, or Exited within the current year) <i>and</i> have a section with an Assessment Type of LEPELL</li> <li>▪ <b>Subject</b> - NA</li> </ul> </li> <li>◦ MAP <ul style="list-style-type: none"> <li>▪ <b>Assessment Type</b> - Reports MAPSPR when a student is registered in a course that has a Course Assessment Subject of MATH, ELA, or SC</li> <li>▪ <b>Subject</b> - Reports the subject from the Assessment Subject field on a student's Course.</li> </ul> </li> <li>• namespace = Report assessment namespace based upon the Assessment Type being reported above. <ul style="list-style-type: none"> <li>◦ Hardcode ASVAB to uri://dese.mo.gov/ASVAB</li> <li>◦ Hardcode EOCEX2 to uri://dese.mo.gov/EOCEX2</li> <li>◦ Hardcode EOCEX3 to uri://dese.mo.gov/EOCEX3</li> <li>◦ Hardcode EOCEX4 to uri://dese.mo.gov/EOCEX4</li> <li>◦ Hardcode EOCFAL to uri://dese.mo.gov/EOCFAL</li> <li>◦ Hardcode EOCSPR to uri://dese.mo.gov/EOCSPR</li> <li>◦ Hardcode LEPELL to uri://dese.mo.gov/LEPELL</li> <li>◦ Hardcode MAPSPR to uri://dese.mo.gov/MAPSPR</li> </ul> </li> </ul>		

Data Element Label	Business Requirement and Rules	M, C, or O	Location
schoolYearTypeReference	<p>Reports the data that is part of the Natural Key for the School Year Type resource</p> <ul style="list-style-type: none"> <li>• schoolYear = <b>End year of Current School Year</b></li> </ul>	M	
<b>studentReference</b>	<p>A unique alphanumeric code assigned to a student.</p> <p>Reports the data that is part of the Natural Key for the referenced Student resource.</p> <ul style="list-style-type: none"> <li>• studentUniqueId = <b>Student State ID</b></li> </ul>	M	
<b>administrationDate</b>	<p>The date and time an assessment was completed by the student. The use of ISO-8601 formats with a timezone designator (UTC or time offset) is recommended in order to prevent ambiguity due to time zones.</p> <ol style="list-style-type: none"> <li>1. For tests through Test Setup, report the date the Assessment was taken</li> <li>2. For assessments through course/section - report the section end date, unless the student has a roster end date</li> </ol>	M	<p>Student Information &gt; Assessment &gt; Test Scores &gt; Date</p> <p>TestScore.date Test.startDate</p>
studentObjectiveAssessments	<p>An unordered collection of studentAssessmentStudentObjectiveAssessments. The student's score and/or performance levels earned for an objective assessment.</p> <p>See the Array section.</p>	M	
whenAssessedGradeLevelDescriptor	<p>The grade level of a student when assessed.</p> <p>Report the Grade level from the enrollment as of the time data is being submitted.</p> <ul style="list-style-type: none"> <li>• Follow typical priority list (Primary/Partial/SPED, Latest Start Date, Highest Enrollment ID)</li> </ul>	O	<p>Enrollments &gt; General Enrollment Info &gt; Grade</p>
period	See the Array section.	O	
platformTypeDescriptor	<p>The platform with which the assessment was delivered to the student during the assessment session.</p> <p>Report the method used to administer the assessment.</p>	C	<p>Course/Section &gt; Section &gt; Section Editor &gt; Test Method</p>

Data Element Label	Business Requirement and Rules	M, C, or O	Location
administratorFirstName	<p>The first name of the educator who will be administering the assessment.</p> <p>administratorFirstName is required when Assessment is EOCFAL, EOCSUM, EOCSPR, OR LEP/ELL.</p> <p>MAPSPR : Report primary teacher's first name and last name, from the primary teacher who is active. (Primary teacher &gt; Current Identity &gt; First Name)</p> <ol style="list-style-type: none"> <li>Report when Course &gt; Assessment Subject = ELA, LEP/ELL, MATH, or SC and Course &gt; Section &gt; Assessment Type = MAPSPR             <ol style="list-style-type: none"> <li>If the teacher's first name is blank, do not report.</li> <li>If student does not have any courses where subject area = ELA, MATH or SC, do not report.</li> </ol> </li> </ol> <p>Pull the administratorFirstName from the most recent active primary teacher record as of the date range entered in the extract editor.</p> <ul style="list-style-type: none"> <li>IF Assessment Type = EOCEXP or ASVAB, do not report</li> </ul>	C	Course/Section > Sections > Staff History > Primary Teacher (First Name)
administratorLastName	<p>The last name of the educator who will be administering the assessment.</p> <p>administratorLastName is required when Assessment is EOCFAL, EOCSUM, EOCSPR, OR LEP/ELL.</p> <p>MAPSPR : Report primary teacher's first name and last name, from the primary teacher who is active as of report generation end date. (Primary teacher &gt; Current Identity &gt; Last Name)</p> <ol style="list-style-type: none"> <li>Report when Course &gt; Assessment Subject = ELA, LEP/ELL, MATH or SC and Course &gt; Section &gt; Assessment Type = MAPSPR             <ol style="list-style-type: none"> <li>If the teacher's last name is blank, do not report.</li> <li>If student does not have any courses where subject area = ELA, MATH or SC, do not report.</li> </ol> </li> </ol> <p>Pull the administratorLastName from the most recent active primary teacher record as of the date range entered in the extract editor.</p> <ul style="list-style-type: none"> <li>IF Assessment Type = EOCEXP or ASVAB, do not report</li> </ul>	C	Course/Section > Sections > Staff History > Primary Teacher (Last Name)

Data Element Label	Business Requirement and Rules	M, C, or O	Location
schoolReference	<p>The identifier assigned to a school.</p> <p>Reports the data that is part of the Natural Key for the School resource</p> <ul style="list-style-type: none"> <li>• schoolId = <b>Reporting School Code</b></li> </ul>	O	
electronicMail	<p>The type of email listed for an individual or organization. For example: Home/Personal, Work, etc.)</p> <p>The electronic mail (e-mail) address listed for an individual or organization.</p> <ul style="list-style-type: none"> <li>• electronicMailTypeDescriptor = <b>Work</b></li> <li>• electronicEmailAddress = Report the <b>Email</b> address, if exists, for the individual returned in the administratorFirstName and administratorLastName fields above.</li> </ul> <p>If the administratorFirstName and administratorLastName fields are not reporting or there is no email address in the system, do not report electronicMail.</p>	C	Demographics > Personal Contact Information > Email
sort	<p>The final value in which the labels will be sorted.</p> <p>If Assessment is 'MAPSPR' then SORT value is expected. The Map Sort is on the Section of a course.</p> <ul style="list-style-type: none"> <li>• If the Map Sort value is "1: Room Number", report the room number of the section the student is on the roster of.</li> <li>• If a section or the course for a section is flagged as homeroom, <u>and</u> the Map Sort value is "2: Homeroom teacher", report the last name of the primary teacher of the section the student is on the roster of.</li> </ul> <p>IF Assessment Type = EOCEXP, LEPELL, or ASVAB, do not report.</p>	O	Student Information > General > Assessment Precode > MAP Sort
_etag	A unique system-generated value that identifies the version of the resource.	O	

## Arrays

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## Student Objective Assessments

Data Element Label	Business Requirement/Rules	Database Location
<b>objectiveAssessmentReference</b>	<p>Reports the data that is part of the Natural Key for the Objective Assessment resource</p> <ul style="list-style-type: none"> <li>assessmentIdentifier = Report the Test Type Code. Reports Parent only. Hardcode to <b>ASVAB-EdOrgID</b> (Ex ASVAB-26006)</li> <li>identificationCode = Reports ASVAB Child assessment name <ul style="list-style-type: none"> <li>Arithmetic Reasoning</li> <li>Auto and Shop Information</li> <li>Electronics Information</li> <li>General Science</li> <li>Math Skills</li> <li>Mathematics Knowledge</li> <li>Mechanical Comprehension</li> <li>Military Entrance Score <i>OR</i> Armed Forces Qualification Test</li> <li>Paragraph Comprehension</li> <li>Science and Tech Skills</li> <li>Verbal Skills</li> <li>Word Knowledge</li> </ul> </li> <li>namespace = Hardcode to "uri://dese.mo.gov/ASVAB"</li> </ul>	Assessment > Assessment Center > Test Information > Name
<b>scoreresults</b>	<p>An unordered collection of studentAssessmentStudentObjectiveAssessmentScoreResults. A meaningful score or statistical expression of the performance of an individual. The results can be expressed as a number, percentile, range, level, etc.</p> <ul style="list-style-type: none"> <li>assessmentReportingMethodDescriptor = Hardcode to <b>"Number score"</b></li> <li>resultDatatypeTypeDescriptor = Report the <b>ASVAB Score Type</b> for each objectiveAssessmentReference.identificationCode being reported for the student</li> <li>result = Report the <b>ASVAB Grade Standard Score</b> for each objectiveAssessmentReference.identificationCode being reported for the student</li> </ul>	\

## Period

Data Element Label	Business Requirements and Rules	M, C, or O	Location

Data Element Label	Business Requirements and Rules	M, C, or O	Location
<b>assessmentPeriodDescriptor</b>	<p>The period of time in which an assessment is supposed to be administered (e.g., Beginning of Year, Middle of Year, End of Year).</p> <p>Period is required when Assessment is EOCFAL, EOCSUM, EOCSPR, or any of the MAPSPR assessment types (MATH, ELA, SC).</p>	C	Course/Section > Sections > Section Editor > Section Schedule Placement

## Type/Descriptor

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### Academic Subject Descriptors

Code	Short Description	Description	Namespace
ALGEB1	Algebra I	Algebra I	uri://dese.mo.gov/AcademicSubjectDescriptor
ALGEB2	Algebra II	Algebra II	uri://dese.mo.gov/AcademicSubjectDescriptor
AMGOV1	American Government I	American Government I	uri://dese.mo.gov/AcademicSubjectDescriptor
AMHIS1	American History I	American History I	uri://dese.mo.gov/AcademicSubjectDescriptor
BIOLO1	Biology I	Biology I	uri://dese.mo.gov/AcademicSubjectDescriptor
ELA	MAP English Language Arts	MAP English Language Arts	uri://dese.mo.gov/AcademicSubjectDescriptor
ENGLI1	English I	English I	uri://dese.mo.gov/AcademicSubjectDescriptor
ENGLI2	English II	English II	uri://dese.mo.gov/AcademicSubjectDescriptor
GEOME1	Geometry I	Geometry I	uri://dese.mo.gov/AcademicSubjectDescriptor
INTMA2	Integrated Math II	Integrated Math II	uri://dese.mo.gov/AcademicSubjectDescriptor
INTMA3	Integrated Math III	Integrated Math III	uri://dese.mo.gov/AcademicSubjectDescriptor
MAPA ELA	MAPA English Language Arts	MAPA English Language Arts	uri://dese.mo.gov/AcademicSubjectDescriptor
MAPA MATH	MAPA Math	MAPA Math	uri://dese.mo.gov/AcademicSubjectDescriptor
MAPA SC	MAPA Science	MAPA Science	uri://dese.mo.gov/AcademicSubjectDescriptor
MATH	MAP Math	MAP Math	uri://dese.mo.gov/AcademicSubjectDescriptor
Military Aptitude Test	Military Aptitude Test	Military Aptitude Test	uri://dese.mo.gov/AcademicSubjectDescriptor
PERSFN	Personal Finance	Personal Finance	uri://dese.mo.gov/AcademicSubjectDescriptor
PHYSC1	Physical Science I	Physical Science I	uri://dese.mo.gov/AcademicSubjectDescriptor

Code	Short Description	Description	Namespace
SC	MAP Science	MAP Science	uri://dese.mo.gov/AcademicSubjectDescriptor

## Electronic Mail Type Descriptor

Code	Short Description	Description	Namespace
Work	Work	Work	uri://ed-fi.org/ElectronicMailTypeDescriptor

## Platform Type Descriptor

Code	Short Description	Description	Namespace
ONLINE	Online	Online	uri://dese.mo.gov/PlatformTypeDescriptor
PENPAP	Pencil and Paper	Pencil and Paper	uri://dese.mo.gov/PlatformTypeDescriptor

## Result Datatype Type Descriptor

Code	Short Description	Description	Namespace
Decimal	Decimal	Decimal	uri://ed-fi.org/ResultDatatypeTypeDescriptor
Integer	Integer	Integer	uri://ed-fi.org/ResultDatatypeTypeDescriptor
Percentage	Percentage	Percentage	uri://ed-fi.org/ResultDatatypeTypeDescriptor
Level	Level	Level	uri://ed-fi.org/ResultDatatypeTypeDescriptor
Percentile	Percentile	Percentile	uri://ed-fi.org/ResultDatatypeTypeDescriptor
Range	Range	Range	uri://ed-fi.org/ResultDatatypeTypeDescriptor

## Assessment Period Descriptor

Code	Short Description	Description	Namespace
01	Period 01	Period 01	uri://dese.mo.gov/AssessmentPeriodDescriptor
02	Period 02	Period 02	uri://dese.mo.gov/AssessmentPeriodDescriptor
03	Period 03	Period 03	uri://dese.mo.gov/AssessmentPeriodDescriptor
04	Period 04	Period 04	uri://dese.mo.gov/AssessmentPeriodDescriptor
05	Period 05	Period 05	uri://dese.mo.gov/AssessmentPeriodDescriptor
06	Period 06	Period 06	uri://dese.mo.gov/AssessmentPeriodDescriptor
07	Period 07	Period 07	uri://dese.mo.gov/AssessmentPeriodDescriptor
08	Period 08	Period 08	uri://dese.mo.gov/AssessmentPeriodDescriptor
09	Period 09	Period 09	uri://dese.mo.gov/AssessmentPeriodDescriptor
10	Period 10	Period 10	uri://dese.mo.gov/AssessmentPeriodDescriptor