

# Assessments (Core v3.X)

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This entity represents a tool, instrument, process, or exhibition composed of a systematic sampling of behavior for measuring a student's competence, knowledge, skills, or behavior. An assessment can be used to measure differences in individuals or groups and changes in performance from one occasion to the next.

## Object Triggering Logic

Action	Trigger
Post	<p>When a parent assessment is created.</p> <ul style="list-style-type: none"> <li>The Test Date must occur within the Scope Year.</li> <li>When a pre-existing student assessment's test date is changed to a date within the scope year, an add event is triggered. (This scenario is valid only for those pre-existing assessment dates which weren't within the scope year before.)</li> <li>Scenario: When the scope year is set to year 2022-2023 and there is a test with a year of 2021-2022, when the user changes the test year to 2022-23 and the test is assigned to the student, an add event is triggered.</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>
Post	<p>A field is changed and saved on the Test information for the parent (non-child assessment).</p> <ul style="list-style-type: none"> <li>When the Test Date is changed.</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	When all student's overlapping enrollments are deleted.
Delete	When a student's enrollment is changed to No Show.
Delete	<p>When a student's Test Date no longer matches the scope year.</p> <ul style="list-style-type: none"> <li>When assessments 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 is not sent for Student Assessment or Assessment as the record is tied to a student.</li> </ul>

## Scope Year

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

## Resource Toggle

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

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

Action	Trigger
Post/Delete	Natural Key changes: <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

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

## Object Data Elements

Data Element Label	Business Requirement and Rules	Mandatory, Conditional or Optional	Location
id	The unique identifier of the resource	M	
<b>studentAssessmentIdentifier</b>	A unique number or alphanumeric code assigned to an assessment administered to a student.  Reports the Test Score ID.	M	TestScore.sc

Data Element Label	Business Requirement and Rules	Mandatory, Conditional or Optional	Location
<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 referenced Assessment resource.</p>	M	
reportedSchoolReference	<p>A reference to the reported School resource.</p> <p>Reports the data that is part of the Natural Key for the referenced School resource.</p> <ul style="list-style-type: none"> <li>schoolID</li> </ul>	O	
schoolYearTypeReference	Optional. Does not report.	O	
<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>	M	
accommodations	<p>An unordered collection of studentAssessmentAccommodations.</p> <p>The specific type of special variation used in how an examination is presented, how it is administered or how the test taker is allowed to respond. This generally refers to changes that do not substantially alter what the examination measures. The proper use of accommodations does not substantially change academic level or performance criteria (e.g., Braille, Enlarged Monitor View, Extra Time, Large Print, Setting, Oral Administration).</p> <p>Optional, does not report.</p>	O	
<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> <p>Reports the student's parent assessment date from the student's Assessment record.</p> <p>When there is no assessment date, reports from the Assessment Center Test Detail Start Date.</p> <p>When there is no Start Date in the Assessment Center, does not report.</p>	M	
administrationEndDate	<p>The date and time an assessment administration ended.</p> <p>Optional, does not report.</p>	O	
administrationEnvironmentDescriptor	<p>The environment in which the test was administered.</p> <p>Optional, does not report.</p>	O	

Data Element Label	Business Requirement and Rules	Mandatory, Conditional or Optional	Location
administrationLanguageDescriptor	The language in which an assessment is written and/or administered.  Optional, does not report.	O	
assessedMinutes	Reported time student was assessed in minutes.  Hardcoded to report a value of 0 (zero).	O	
eventCircumstanceDescriptor	An unusual event occurred during the administration of the assessment. This could include fire alarm, student became ill, etc.  Optional, does not report.	O	
eventDescription	Describes special events that occur before during or after the assessment session that may impact use of results.  Optional, does not report.	O	
<b>items</b>	An unordered collection of studentAssessmentItems. The student's response to an assessment item and the item-level scores such as correct, incorrect, or met standard.  Optional, does not report.	O	
<b>performanceLevels</b>	An unordered collection of studentAssessmentPerformanceLevels. The performance level(s) achieved for the student assessment.  Optional, does not report.	O	
period	The period or window in which an assessment is supposed to be administered.  See the Array section for details.		
platformTypeDescriptor	The platform with which the assessment was delivered to the student during the assessment session.  Optional, does not report.	O	
reasonNotTestedDescriptor	The primary reason student is not tested. For example: Absent Refusal by parent Refusal by student Medical waiver Illness Disruptive behavior LEP Exempt.  Optional, does not report.	O	
reportedSchoolIdentifier	A reported school identifier for the school the enrollment at the time of the assessment used when the assigned SchoolId is not known by the assessment vendor.  Optional, does not report.	O	

Data Element Label	Business Requirement and Rules	Mandatory, Conditional or Optional	Location
retestIndicatorDescriptor	Indicator if the test was retaken. For example: Primary administration First retest Second retest.  Optional, does not report.	O	
scoreResults	An unordered collection of studentAssessmentScoreResults. A meaningful score or statistical expression of the performance of an individual. The results can be expressed as a number, percentile, range, level, etc.  See array section for details.  Does not report when any of the array Data Elements are either not mapped or score value is not entered.	O	
serialNumber	The unique number for the assessment form or answer document.  Optional, does not report.	O	
studentObjectiveAssessments	An unordered collection of studentAssessmentStudentObjectiveAssessments. The student's score and/or performance levels earned for an objective assessment.  Optional, does not report.	O	
whenAssessedGradeLevelDescriptor	The grade level of a student when assessed.  Optional, does not report.	O	

## Arrays

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### Score Results

Data Element Label	Business Requirements and Rules	Mandatory, Conditional, or Optional	Location
assessmentReportingMethodDescriptor	The method that the administrator of the assessment uses to report the performance and achievement of all students. It may be a qualitative method such as performance level descriptors or a quantitative method such as a numerical grade or cut score. More than one type of reporting method may be used.  Reports the mapped Ed-Fi Code Value if the reporting assessment Score Fields value is populated.  Does not report when not mapped.	M	

Data Element Label	Business Requirements and Rules	Mandatory, Conditional, or Optional	Location
resultDatatypeTypeDescriptor	The datatype of the result. The results can be expressed as a number, percentile, range, level, etc.  Hard-coded value.	M	
result	The value of a meaningful raw score or statistical expression of the performance of an individual. The results can be expressed as a number, percentile, range, level, etc.  Reports the score value for corresponding assessment mapped score.	M	Student Information > General > Assessment > Test Scores > Test Score Detail > Result  Student Information > General > Assessment > Test Scores > Test Score Detail > Percent/Scale Score

#### Period

Data Element Label	Business Requirements and Rules	Mandatory, Conditional, or Optional	Location
assessmentPeriodDescriptor	The period of time in which an assessment is supposed to be administered (e.g., Beginning of Year, Middle of Year, End of Year).  Reports the mapped Ed-Fi Code Value. <ul style="list-style-type: none"> <li>Tests available for mapping are those with an end year that matches the configuration end year or test's with no end year at all.</li> <li>Does not report period if test is not mapped.</li> </ul>	M	
beginDate	The first date the assessment is to be administered.  Reports the start date from the assessment when it exists.	O	Assessment Center > Test Detail > Start Date  Test.startDate
endDate	The last date the assessment is to be administered.  Reports the end date from the assessment if it exists.	O	Assessment Center > Test Detail > End Date  Test.endDate

## Type/Descriptors

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## Assessment Reporting Method Descriptor

Code Value	Description	Short Description	Namespace
Achievement/proficiency level	Achievement/proficiency level	Achievement/proficiency level	uri://ed-fi.org/AssessmentReportingMethodDescript
ACT score	ACT score	ACT score	uri://ed-fi.org/AssessmentReportingMethodDescript
Age score	Age score	Age score	uri://ed-fi.org/AssessmentReportingMethodDescript
C-scaled scores	C-scaled scores	C-scaled scores	uri://ed-fi.org/AssessmentReportingMethodDescript
College Board examination scores	College Board examination scores	College Board examination scores	uri://ed-fi.org/AssessmentReportingMethodDescript
Composite Score	Composite Score	Composite Score	uri://ed-fi.org/AssessmentReportingMethodDescript
Composite Rating	Composite Rating	Composite Rating	uri://ed-fi.org/AssessmentReportingMethodDescript
Composition Score	Composition Score	Composition Score	uri://ed-fi.org/AssessmentReportingMethodDescript
Grade equivalent or grade-level indicator	Grade equivalent or grade-level indicator	Grade equivalent or grade-level indicator	uri://ed-fi.org/AssessmentReportingMethodDescript
Growth/value-added/indexing	Growth/value-added/indexing	Growth/value-added/indexing	uri://ed-fi.org/AssessmentReportingMethodDescript
International Baccalaureate score	International Baccalaureate score	International Baccalaureate score	uri://ed-fi.org/AssessmentReportingMethodDescript
Letter grade/mark	Letter grade/mark	Letter grade/mark	uri://ed-fi.org/AssessmentReportingMethodDescript
Mastery level	Mastery level	Mastery level	uri://ed-fi.org/AssessmentReportingMethodDescript
Normal curve equivalent	Normal curve equivalent	Normal curve equivalent	uri://ed-fi.org/AssessmentReportingMethodDescript
Normalized standard score	Normalized standard score	Normalized standard score	uri://ed-fi.org/AssessmentReportingMethodDescript
Number score	Number score	Number score	uri://ed-fi.org/AssessmentReportingMethodDescript
Pass-fail	Pass-fail	Pass-fail	uri://ed-fi.org/AssessmentReportingMethodDescript
Percentile	Percentile	Percentile	uri://ed-fi.org/AssessmentReportingMethodDescript
Percentile rank	Percentile rank	Percentile rank	uri://ed-fi.org/AssessmentReportingMethodDescript
Proficiency level	Proficiency level	Proficiency level	uri://ed-fi.org/AssessmentReportingMethodDescript
Promotion score	Promotion score	Promotion score	uri://ed-fi.org/AssessmentReportingMethodDescript
Ranking	Ranking	Ranking	uri://ed-fi.org/AssessmentReportingMethodDescript
Ratio IQ's	Ratio IQ's	Ratio IQ's	uri://ed-fi.org/AssessmentReportingMethodDescript

## Result Datatype Type Descriptors

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