

SMARTERAPP SPECIFICATION for TEST RESULTS TRANSMISSION FORMAT

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Revision History

| Revision Description | Author/Modifier | Date |
|--|--|--------------------|
| 0.1: Initial Release (DRAFT) | Rami Levy | April 28, 2014 |
| 0.2: Clarified that this specification covers both the TDS-to-TIS and TIS-to-DW interfaces, as they are exactly the same. | Rami Levy | July 8, 2014 |
| 0.3: Removed Opportunity/windowStart | Rami Levy | July 18, 2014 |
| 0.4: Added/updated complete list of acceptable values for ExamineeAttributes and Accommodations | Rami Levy | August 3, 2014 |
| <u>0.5: Updated based on Smarter feedback.</u> <u>Several comments updated:</u> <u>Table 3.</u> <u>Table 4.</u> <u>Table 5 added to better describe allowable values; added effectiveDate attribute to</u> Table 2. Updated XSD and sample XML. | Rami Levy | August 14, 2014 |
| 0.6: Added and clarified proposed solutions for accessibility feature coding, achievement levels and subscores. | Brandt Redd (based on proposal from David Lopez de Quintana) | September 18, 2014 |
| 1.1 Updated reporting of accommodations | Brandt Redd (based on submissions from Rami Levy) | October 29, 2014 |
| 1.1 Changed “Eligible” for accommodations to “Designated” | Brandt Redd | 6 December 2014 |
| 1.1 Corrections to sample XML for accommodations | Brandt Redd (based on information from Rami Levy) | 17 December 2014 |
| 1.2 Updated XSD and added second sample result | Brandt Redd based on information from Rami Levy) | 17 January 2015 |



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|--------------------------|--|-----------------|
| 1.4 Updated XSD | Brandt Redd based on information from Rami Levy) | 28 January 2015 |
| 1.5 Updated requirements | Brandt Redd, Vivian Penet | 23 May 2015 |



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Purpose

The purpose of this document is to provide a format specification describing the output of the Test Delivery System (TDS), which feeds into the Test Integration System (TIS), which feeds into the Data Warehouse (DW). The interface is exactly the same for both; that is, the TDS output contains the complete specification for TDS-to-TIS and TIS-to-DW. The specification includes a table describing each XML node and attribute. In addition, the XSD and a sample XML file are included for reference.

This specification represents the combined work of Smarter Balanced and various vendors working on related contracts.

References

| Ref | Reference | Author | Version |
|-----|--|------------------------|---------|
| 1 | Common Education Data Standards (CEDS) specification (https://ceds.ed.gov/elements.aspx) | ceds.ed.gov | 4.0 |
| 2 | Administration And Registration Tool (ART) Upload File Formats | AIR / Smarter Balanced | 0.3 |

Notes Regarding v1.5

States will report de-identified information for all student test results to Smarter Balanced. This version of the specification includes details of which fields are optional when the data is de-identified (student name, birthdate, etc.)

The new test condition fields, “validity” and “completeness” have been added. For the 2014-2015 school year these values will be calculated if not present. In future years, the fields will be required. Details about the calculation rules are in the “Test Condition Codes” document on SmarterApp.org.

An aggregate form, in which multiple test results can be combined into one .XML file has been added. This form can be used when transmitting 2014-2015 test results to Smarter Balanced via FTP but it is NOT valid for the Test Score Batching API. See the section on “Aggregating Multiple Test Results into One XML File” for details.

Test Integration Data Flow Overview

This document describes the data interface between the Test Integration component and one or more Data Warehouses (an interface labeled as arrow 8 in Figure 1).

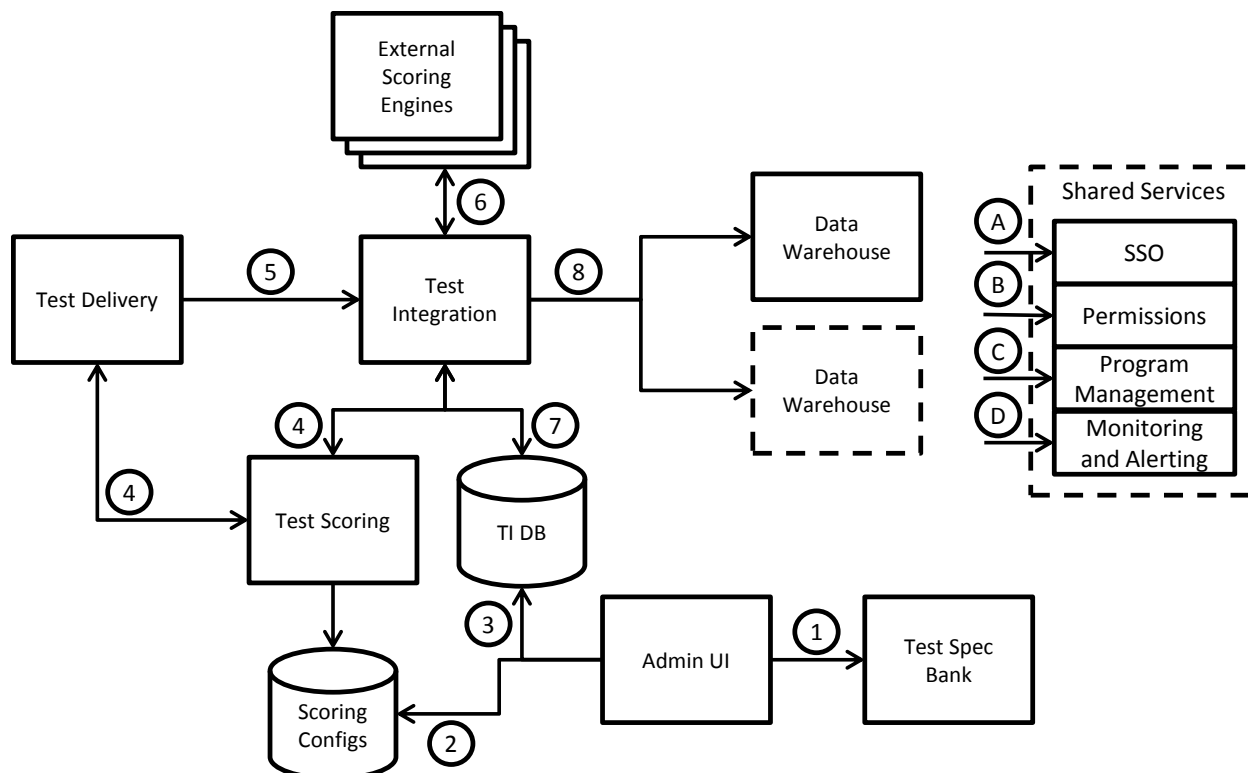


Figure 1: Test Integration and Scoring Data Interfaces

Table 1 summarizes the elements in Figure 1 that are relevant to this document.

| Diagram Element | Description |
|---------------------------|--|
| Test Delivery (TDS) | Test Delivery is responsible for the real time, interactive portion of a student assessment. Test Delivery holds a student's assessment result for a test opportunity until that opportunity has been completed. |
| Test Integration (TIS) | Test Integration holds an assessment result when the real time, interactive portion of the assessment is completed. |
| Test Integration Database | The Test Integration Database stores: (1) in-process assessments that have items that are awaiting are awaiting scoring by external scoring engines, and (2) storing configuration information about how to process assessment opportunities for particular assessments. The configuration information about a particular assessment is provided by a test package via the Admin UI that contains the scoring rules. |
| External Scoring Engines | External Scoring Engines are typically hand scoring systems, but may also be other types of item scoring engines such as automated essay scoring engines that may take more time than is reasonable to be used during a live assessment event. There is no vendor that is building these scoring engines, so AIR will design the protocol to these scoring engines and develop a stub that satisfies the other end of this protocol. |

| Diagram Element | Description |
|--------------------------|---|
| Data Warehouse (DW) | The Data Warehouse is being developed for Smarter Balanced under Contract 15. The Test Integration component will deliver fully scale scored XML documents to the Data Warehouse that represents a complete test opportunity for a student. |
| Test Scoring | The Test Scoring component is responsible for scale scoring an assessment based on preconfigured scoring rules that are provided by means of test packages authored by Test Authoring and stored in the Test Spec Bank. |
| Scoring Configs Database | The Scoring Configs Database stores scoring configurations that the Test Scoring component uses to know how to score a particular assessment. The configuration information about a particular assessment is provided by a test package via the Admin UI that contains the scoring rules. |

Table 1: Component Definitions

Test Integration receives the completed assessment from Test Delivery (arrow 5), delivers responses to external scoring engines (arrow 6), receives and collates results from external scoring engines (arrow 4). *The interfaces associated to arrows 5 and 8 are identical and are specified in this document.* Their format has been designed with optimal flexibility, in order to capture information for any type of assessment. For this reason, many of the nodes and attributes are normalized to name/value pairs, rather than being hard-coded to accept specific data fields.

Test Integration Data Format Conventions

Table 2 provides information regarding the XML output format and its associated XSD, such as the allowable values, sizes, and descriptions, as well as any standards alignment. Also included in this document are the XSD and a sample XML output. The fields in

Table 2 below follow these conventions:

- **Case sensitivity:** Field names are case sensitive and follow the guideline that the XML *Node/Element* is in UpperCamelCase, while node *attributes* are in lowerCamelCase.
- **Order sensitivity:** Fields are not order-sensitive.
- **Non-required (optional) fields:** By default, these fields do not need to be included in the XML file. A missing optional field is simply treated as not present or not applicable.
- **Cardinality:** The number of possible instances of a particular node is defined clearly in the XSD (see Test Integration Format XSD).

Test Integration Format Specification

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|----------------|---------------|----------|--|--|------------------|---|
| Test | name | TDSReport:Test | 250 | Always | Name of the test. This usually consists of the testID with some extra information indicating the client and the season. E.g. (Oregon)OAKS-Math-5-Fall-2012-2013 | One or more printable ASCII characters | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment Administration -> AssessmentAdministrationName ID #977 |
| | subject | | 10 | Always | Subject of the test. E.g. ELPA or MA. | One or more printable ASCII characters | xsd:token | |
| | testId | | 255 | Always | The Test Authoring ID of the test, independent of client, season and year | One or more printable ASCII characters | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment -> AssessmentIdentifier ID #1067 |
| | bankKey | | 8 | Always | ITS bank of blueprint. | Positive 32-bit integer | xsd:unsigned Int | |
| | handScoreProject | | 8 | Optional | If this test has items that need to be scored by hand, this is the ID of the handscore project (either in own handscore center, or an ID to identify a subcontractor's handscore project). | Positive 32-bit integer | xsd:unsigned Int | |
| | contract | | 100 | Optional | Contract of this test (e.g. ELPA or OAKS for Oregon's tests). | One or more printable ASCII characters | xsd:token | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---------------|---------------|----------|---|--|-----------|--|
| | mode | | 50 | Always | Mode of the test. Either 'online', 'paper' or 'scanned'. Here 'paper' means it was a data entry test (meaning the student took the test on paper and someone else then entered the responses in the online system). | online paper scanned | xsd:token | |
| | grade | | 100 | Always | Tested grade. | IT - Infant/toddler PR - Preschool PK - Prekindergarten TK - Transitional Kindergarten KG - Kindergarten 01 - First grade 02 - Second grade 03 - Third grade 04 - Fourth grade 05 - Fifth grade 06 - Sixth grade 07 - Seventh grade 08 - Eighth grade 09 - Ninth grade 10 - Tenth grade 11 - Eleventh grade 12 - Twelfth grade 13 - Grade 13 PS - Postsecondary UG - Ungraded | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment -> AssessmentLevelForWhichDesigned ID #177 |
| | assessmentType | | 20 | Always | Type of assessment | One or more printable ASCII characters, preferably from the list in CEDS. Examples: Summative Formative Interim | xsd:token | [CEDS [1]: K12 -> Assessments -> Assessment -> AssessmentType ID #29 |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------------|----------------------------|------------------------|----------------------|----------|--|-------------------------|----------------------|--|
| | academicYear | | 4 | Always | Current academic year | 1900 <= YYYY <= 9999 | xsd:integer | CEDS [1]: K12 -> K12 School -> Session -> SchoolYear ID #243 |
| | assessmentVersion | | 30 | Always | Version of this assessment | String | xsd:token | |
| Examinee | key | TDSReport: Examinee | 16 | Optional | Internal examinee key | Positive 64-bit integer | xsd:unsigned Long | |
| | isDemo | | 5 | Optional | True if this is a demo user, false otherwise | True, false | xsd:boolean | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---|---------------|------------------------------|---|--|-----------|--|
| ExamineeAttribute | name | TDSReport: Examinee : ExamineeAttribute | 50 | See Examinee Attribute table | Name of the attribute. | LastOrSurname FirstName MiddleName Birthdate StudentIdentifier AlternateSSID GradeLevelWhenAssessed Sex HispanicOrLatinoEthnicity AmericanIndianOrAlaskaNative Asian BlackOrAfricanAmerican White NativeHawaiianOrOtherPacificIslander DemographicRaceTwoOrMoreRaces IDEAIndicator LEPStatus Section504Status EconomicDisadvantageStatus LanguageCode EnglishLanguageProficiencyLevel MigrantStatus FirstEntryDateIntoUSSchool LimitedEnglishProficiencyEntryDate LEPExitDate TitleIIIInstructionProgramType PrimaryDisabilityType | xsd:token | <u>CEDS [1] and ART spec [2]. See Table 3 for details.</u> |
| | value | | 500 | See Examinee Attribute table | Attribute value | Varies per attribute | xsd:token | |
| | context | | 50 | See Examinee Attribute table | Context of the attribute (currently either INITIAL or FINAL). | INITIAL FINAL | xsd:token | - |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---|---------------|---------------------------------|---|---|--------------|--|
| | <i>contextDate</i> | | 23 | See Examinee Attribute table | Date and time the attribute was fetched from ART | time+date | xsd:dateTime | - |
| ExamineeRelationship | entityKey | TDSReport: Examinee: ExamineeRelationship | 22 | See Examinee Relationship table | ART unique identifier for the entity referenced in the ExamineeRelationship/name attribute. | Entity identifier + state abbreviation | xsd:token | |
| | name | | 100 | See Examinee Relationship table | Name of the entity type referred to in the ExamineeRelationship/ entityKey attribute. | DistrictId DistrictName SchoolId SchoolName StateName StudentGroupName | xsd:token | <u>ART [2], reproduced in Table 4 below.</u> |
| | value | | 500 | See Examinee Relationship table | Value of the attribute identified by the ExamineeRelationship entityKey and name. | One or more printable ASCII characters | xsd:token | |
| | <i>context</i> | | 50 | See Examinee Relationship table | Context of the attribute (currently either INITIAL or FINAL). | INITIAL FINAL | xsd:token | |
| | <i>contextDate</i> | | 23 | See Examinee Relationship table | Date and time the attribute was fetched from TR | date+time | xsd:dateTime | |
| Opportunity | server | TDSReport: Opportunity | 128 | Optional | Name of the TDS server that was used to administer this test. | One or more printable ASCII characters | xsd:token | |
| | database | | 128 | Optional | Name of the TDS DB that was used to administer this test. | Zero or more printable ASCII characters | xsd:token | |
| | key | | 36 | Always | A globally unique identifier for the opportunity (GUID) | One or more printable ASCII characters | xsd:token | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---------------|---------------|---|---|--|-------------------|---|
| | oppld | | 16 | Optional | Opportunity ID, formerly known as vndr_test_event_id . A unique identifier (within client) of the test opportunity. | Positive 64-bit integer | xsd:unsigned Long | |
| | startDate | | 23 | Always | Date and time the student started the opportunity. | date+time | xsd:dateTime | CEDS [1]: K12 -> Assessments -> Assessment Administration ID #962, #963 |
| | status | | 50 | Always | Status of the opportunity. | appeal completed (deprecated) expired handscoring invalidated (deprecated) paused reported reset scored submitted | xsd:token | |
| | validity | | 7 | Always (If not present, will be calculated in the 2014-2015 school year) | Validity of the test result. | valid invalid | xsd:token | |
| | completeness | | 8 | Always (If not present, will be calculated in the 2014-2015 school year) | Completeness of the test (whether student responded to all items in the tes). | none partial complete | xsd:token | |
| | opportunity | | 8 | Always | A counter that counts the number of times a student has taken this test. | Positive 32-bit integer | xsd:unsigned Int | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---------------|---------------|----------|---|-------------------------|-----------------|---|
| | statusDate | | 23 | Always | The date and time the status of this opportunity last changed. Generally this is close to the opportunityDateCompleted, but it can be much later, e.g. for resets, invalidations, hand scores being added, etc. | date+time | xsd:dateTime | - |
| | dateCompleted | | 23 | Always | Date the student submitted the opportunity for scoring. | date+time | xsd:dateTime | CEDS [1]: K12 -> Assessments -> Assessment Administration ID #964 |
| | pauseCount | | 8 | Always | number of times Examinee paused the opportunity | Positive 32-bit integer | xsd:unsignedInt | |
| | itemCount | | 8 | Always | Number of items in the XML file. Note these are presented items plus prefetched items (there could be items the student never saw). | Positive 32-bit integer | xsd:unsignedInt | |
| | ftCount | | 8 | Always | number of field test items in count | Positive 32-bit integer | xsd:unsignedInt | |
| | abnormalStarts | | 8 | Always | The number of times the test was restarted after an abrupt end to a test (browser crash, power shutdown, network loss etc.). | Positive 32-bit integer | xsd:unsignedInt | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---------------|---------------|---|--|---|------------------|---|
| | gracePeriodRestarts | | 8 | Always | The number of times the student paused the test and restarted it within the grace period (20 minutes). | Positive 32-bit integer | xsd:unsigned Int | |
| | TAID | | 128 | De-identified: Never Otherwise: Optional | ID of the Test Administrator that administered this test (often the TA's e-mail address) | Zero or more printable ASCII characters | xsd:token | CEDS [1]: K12 -> K12 Staff -> Contact -> Email ID #88 |
| | TAName | | 128 | De-identified: Never Otherwise: Optional | Name of the Test Administrator that administered this test. | Zero or more printable ASCII characters | xsd:token | |
| | sessionId | | 128 | De-identified: Never Otherwise: Optional | TDS's ID for the session in which this test was taken. | Zero or more printable ASCII characters | xsd:token | |
| | windowId | | 50 | Always | the ID of the window in which the test was administered (E.g. EOC-Spring) | One or more printable ASCII characters | xsd:token | |
| | windowOpportunity | | 8 | Optional | A counter that counts the number of times a student has taken this test in this window. | zero or more printable ASCII characters | xsd:token | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------------|----------------------------|---------------|----------------------|----------|--|--|--------------|-----------|
| | dateForceCompleted | | 8 | Optional | If a test is actually complete (all items responded to) at the time it expires it might (depending on per-client configuration) instead be "force completed". That is, it is submitted for the student. It will not have status 'expired', but 'scored'. This is the date the "force completion" was done. | date+time | xsd:dateTime | |
| | clientName | | 255 | Always | Name of the client this test is for (e.g. Oregon). | One or more printable ASCII characters | xsd:token | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|---|---------------------------------------|---------------|----------------|---|--|---------------------|---|
| | assessmentParticipantSessionPlatformUserAgent | | 512 | Online: Always | A list of product tokens (keywords) with optional comments that identifies the client hardware and software with which the assessment was delivered to the student during the assessment session. Implementation Note: The recommended approach is to store the User-Agent string returned as part of an HTTP header. For example, an assessment session delivery via iPad might have "Mozilla/5.0 (iPad; U; CPU OS 3_2_1 like Mac OS X; en-us) AppleWebKit/531.21.10 (KHTML, like Gecko) Mobile/7B405" | <User-Agent string> | xsd:string | CEDS [1]: K12 -> Assessments -> Assessment Participant Session -> AssessmentParticipantSessionPlatformUserAgent ID #1152 |
| | effectiveDate | | 10 | Always | The first date of the first window for a given assessment. | YYYY-MM-DD, where 2000 <= YYYY <= 9999 01 <= MM <= 12 01 <= DD <= 31 | xsd:string | |
| Segment | id | TDSReport: Opportunity: Segment | 250 | Always | Segment the item was administered on. | One or more printable ASCII characters | xsd:token | |
| | position | | 8 | Always | Position of the segment on the test. | Positive 32-bit integer, null allowed | xsd:unsigned Int | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---|---------------|----------|--|---|-----------|--|
| | formKey | | 100 | Optional | ITS key of the form (if algorithm = fixedform). | One or more printable ASCII characters | xsd:token | |
| | formId | | 150 | Optional | If the algorithm is fixedform then this is the ID of the form for the segment. Otherwise null. | One or more printable ASCII characters | xsd:token | |
| | algorithm | | 50 | Always | Item selection algorithm that was used for this segment. | One or more printable ASCII characters | xsd:token | |
| | algorithmVersion | | 50 | Always | Item selection algorithm version | One or more printable ASCII characters | xsd:token | |
| Accommodation | type | TDSReport: Opportunity: Accommodation | 510 | Always | Accommodation or accessibility feature (e.g. 'ColorContrast') | AmericanSignLanguage ColorContrast ClosedCaptioning Language Masking PermissiveMode PrintOnDemand PrintSize StreamlinedInterface TexttoSpeech Translation (Glossary) NonEmbeddedDesignatedSupports NonEmbeddedAccommodations Other | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment Participant Session ID #385 <u>And ART spec [2], also included here as</u> Table 5. |
| | value | | 510 | Always | accommodation value (e.g. 'Magenta'). Note that there is a one to one relationship between value and code. | One or more printable ASCII characters | xsd:token | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---|---------------|---|--|--|------------------|---|
| | code | | 510 | Always | Accommodation code (e.g. 'TDS_CCMagenta') | One or more printable ASCII characters | xsd:token | |
| | segment | | 8 | Always | Segment number the accommodation applies to. A 0 means the accommodation applies to the entire test (all segments). | Positive 32-bit integer, Null allowed | xsd:unsigned Int | |
| Score | measureOf | TDSReport: Opportunity: Score | 150 | Always | The set of items this value measures. Usually a strand or an AffinityGroup. E.g. Overall or Mathematics-10.2 or Listening. | One or more printable ASCII characters | xsd:token | |
| | measureLabel | | 150 | Always | Label of this measure. E.g. ScaleScore, PerformanceLevel, Attempted. | One or more printable ASCII characters | xsd:token | |
| | value | | 64 | Always | Value of the measure. E.g. 1034 (for ScaleScore) or Y (for Attempted). | One or more printable ASCII characters | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment Item -> Assessment Item Response ID #724 |
| | standardError | | 8 | Always: standardError for the ScaleScore | Standard error of the measure. | Float, null allowed | xsd:token | |
| GenericVariable | context | TDSReport: Opportunity: GenericVariable | 50 | GenericVariable element is optional; if included, this attribute is required. | This node is optional but if used all of these attributes are required | One or more printable ASCII characters | xsd:token | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|------------------------------------|---------------|---|--|--|-------------------|--|
| | name | | 50 | GenericVariable element is optional; if included, this attribute is required. | General use | One or more printable ASCII characters | xsd:token | |
| | value | | 255 | GenericVariable element is optional; if included, this attribute is required. | General use | One or more printable ASCII characters | xsd:string | |
| Item | position | TDSReport: Opportunity: Item | 8 | Always | Ordinal position of item on test | Positive 32-bit integer, null allowed | xsd:unsigned Int | |
| | segmentId | | 250 | Always | Segment the item was administered on. | One or more printable ASCII characters | xsd:token | |
| | bankKey | | 40 | Always | Permits items from multiple Item Authoring banks | One or more printable ASCII characters | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment Item ID #1181 |
| | key | | 40 | Always | Internal ID from Item Authoring. This is the item identifier. | Positive 64-bit integer | xsd:unsigned Long | Internal ITS identifier. |
| | clientId | | 80 | Optional | How client identifies the item | One or more printable ASCII characters | xsd:token | |
| | operational | | 8 | Always | 1 if operational, 0 if field test | 0,1 | xsd:unsigned Int | |
| | isSelected | | 8 | Always | Whether the student submitted his response for scoring or not. Possible values 0 (not submitted) or 1 (submitted). | 0,1 | xsd:unsigned Int | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---------------|---------------|----------|---|--|-----------|--|
| | format | | 50 | Always | Item type (e.g. MC (multiple choice) or GI (grid item)). | associateInteraction choiceInteraction customInteraction drawingInteraction endAttemptInteraction extendedTextInteraction gapMatchInteraction graphicAssociateInteraction graphicGapMatchInteraction graphicOrderInteraction hotspotInteraction hottextInteraction inlineChoiceInteraction matchInteraction mediaInteraction orderInteraction positionObjectInteraction selectPointInteraction sliderInteraction textEntryInteraction uploadInteraction EBSR EQ ER GI HT HTQ MC MI MS NL SA TI TUT WER WORDLIST Stimulus | xsd:token | CEDS [1]: K12 -> Assessments -> Assessment Item -> Assessment Item API Interaction ID #1158 |
| | score | | 8 | Always | number of scorepoints earned by Examinee. -1 means not scored | unsigned float, -1 allowed | xsd:float | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---------------|---------------|----------|--|---|-----------------|-----------|
| | scoreStatus | | 50 | Optional | Provided by independent item scoring engine | NOTSCORED SCORED SCORINGERROR WAITINGFORMACHINESC ORE | | |
| | adminDate | | 23 | Always | Date and time item was administered to Examinee | date+time | xsd:dateTime | |
| | numberVisits | | 8 | Always | Number of times the student modifies his response to the item. | Positive 32-bit integer | xsd:unsignedInt | |
| | contentType | | 255 | Always | MIME type of item response. | One or more printable ASCII characters | | |
| | strand | | 150 | Always | Top level strand in the strand hierarchy the item is on. | One or more printable ASCII characters | | |
| | contentLevel | | 150 | Always | Lowest level strand in the strand hierarchy the item is part of. | One or more printable ASCII characters | | |
| | pageNumber | | 8 | Always | Number of the (online) page the item appears on. | Positive 32-bit integer | xsd:unsignedInt | |
| | pageVisits | | 8 | Always | Number of times the student visited the (online) page this item is on. | Positive 32-bit integer | xsd:unsignedInt | |
| | pageTime | | 8 | Always | Time (in milliseconds) the student spent on the (online) page this item is on. | Signed 32-bit integer | xsd:int | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|--|---------------|-------------------------|--|---------------------------------------|------------------|---|
| | dropped | | 8 | Always | Whether the item is dropped. If an item was administered but later inactivated the DW might receive a new record with this flag turned on. | 0 or 1 | xsd:unsigned Int | |
| Response | type | TDSReport: Opportunity: Item: Response | 10 | Paper Pencil: Always | Type of responseValue. Possible values 'value' or 'reference'. 'reference' is used for scanned paper tests where the scanned response is not included, but only a reference to the file containing the scanned response. | Value reference <blank allowed> | xsd:token | |
| | <node text> | | unlimited | Online: Always | If responseType is 'value', then the actual response. Note that both MC responses and CR responses are captured here. If responseType is 'reference' then the filename where the scanned response is saved. | | xsd:string | CEDS [1]: K12 -> Assessments -> Assessment Item -> Assessment Item Response ID #724 |
| | date | | 23 | Always | Date and time the student responded to the item | date+time | xsd:dateTime | CEDS [1]: K12 -> Assessments -> Assessment Item -> Assessment Item Response ID #959, #958 |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---|---------------|---|---|---|------------|-----------|
| ScoreInfo | scorePoint | TDSReport: Opportunity: Item: ScoreInfo | 8 | ScoreInfo element is optional; if included, this attribute is required. | Output of the machine scorer giving reasons for the assigned score. Now also contains dimension scores for certain items. | float, -1 allowed | xsd:float | |
| | scoreDimension | | 255 | ScoreInfo element is optional; if included, this attribute is required. | Dimension the score is for. | One or more printable ASCII characters | xsd:token | |
| | scoreStatus | | 22 | ScoreInfo element is optional; if included, this attribute is required. | Provided by independent item scoring engine | NotScored Scored ScoringError WaitingForMachineScore | xsd:token | |
| | conditionCode | | 1 | ScoreInfo element is optional; if included, this attribute is required. | For hand-scored items and machine-scored NL items | A-Z | xsd:token | |
| ScoreRationale | | TDSReport: Opportunity: Item: ScoreInfo: ScoreRationale | | Optional | | | | |
| Message | | TDSReport: Opportunity: Item: ScoreInfo: ScoreRationale: Message | unlimited | Optional | Contains hand-scoring information in JSON format, along with a scorer ID | JSON formatted string | xsd:string | |
| SubScoreList | | TDSReport: Opportunity: Item: ScoreInfo: ScoreRationale: SubScoreList | | Optional | SubscoreList has no attrs, but can have nested ScoreInfo nodes for multi-dimensional items. | | | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|-------------------------------|---------------|---|---|--|------------------|-----------|
| Comment | context | TDSReport: comment | 200 | Comment element is optional; if included, this attribute is required. | Context of the comment (e.g. TESTITEM or GlobalNotes). | One or more printable ASCII characters | xsd:token | |
| | itemPosition | | 8 | Comment element is optional; if included, this attribute is required. | If this was an item level comment (context = TESTITEM), the position of the item the comment was for. | Positive 32-bit integer, Null allowed | xsd:unsigned Int | |
| | date | | 23 | Comment element is optional; if included, this attribute is required. | Date and time comment was entered. | date+time | xsd:dateTime | |
| | <node text> | | unlimited | Comment element is optional; if included, this attribute is required. | | | xsd:string | |
| Score | value | TDSReport: Opportunity: score | 10 | Always | Score (or ConditionCode if type isn't Final). | One or more printable ASCII characters | xsd:token | |
| | compName | | 50 | Always | Component name. Dimension: if the score is a dimension score. ScorePoints: if there are no dimensions and this is just a score for the whole item. ConditionCodes: if the score value is actually a condition code (these usually apply to all dimensions). | One or more printable ASCII characters | xsd:token | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|--------------------------------------|---------------|---|---|---|------------------|-----------|
| | dimension | | 50 | Always | Dimension the score is for. | One or more printable ASCII characters | xsd:token | |
| | sequence | | 8 | Always | Used to count backreads. 1 for all other types. | Positive 32-bit integer | xsd:unsigned Int | |
| | conditionCode | | 10 | Always | Blank if this record is for a regular score, otherwise the condition code. Only used for final scores. | One or more printable ASCII characters | xsd:token | |
| | type | | 50 | Always | Type of the score. | Initial Reliability Resolution Backread Final | xsd:token | |
| | userId | | 50 | Always | ID of the scorer. | One or more printable ASCII characters | xsd:token | |
| | userLastName | | 50 | Optional | Last name of the scorer. | One or more printable ASCII characters | xsd:token | |
| | userFirstName | | 50 | Optional | First name of the scorer. | One or more printable ASCII characters | xsd:token | |
| ToolUsage | toolType | TDSReport: ToolUsage | 100 | ToolUsage element is optional; if included, this attribute is required. | Tools used on certain items or item groups (passages). For instance TTS (TextToSpeech). Type of the tool. | One or more printable ASCII characters | xsd:token | |
| | toolCode | | 100 | ToolUsage element is optional; if included, this attribute is required. | Code for the tool. | One or more printable ASCII characters | xsd:token | |
| ToolPage | page | TDSReport: ToolUsage: ToolPage | 8 | ToolPage element is optional; if included, this attribute is required. | (Online) page the tool was used on. | Positive 32-bit integer | xsd:unsigned Int | |

| Category / Node (XML Element) | TDS Field Name (attribute) | XML Hierarchy | Width (chars) | Required | Data Element Description | Acceptable Values | Data Type | Reference |
|-------------------------------|----------------------------|---------------|---------------|--|------------------------------------|--|------------------|-----------|
| | groupId | | 59 | ToolPage element is optional; if included, this attribute is required. | Item or Passage ID | One or more printable ASCII characters | xsd:token | |
| | count | | 8 | ToolPage element is optional; if included, this attribute is required. | Number of times the tool was used. | Positive 32-bit integer | xsd:unsigned Int | |

Table 2: Test Integration XML Output Format Description

The examineeAttribute values are the same as used for test registration. Student identity information (name, birthdate and studentIdentifier) is required at registration but may be removed before the data is transmitted from the test delivery system to the data warehouse. Removal is in accordance with local privacy policies. Fields for which this applies are marked “Reg – Y, Rep – N” in the “Required” column below, where Reg = Registration and Rep = Reporting.

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|---------------|---|-------|----------------------|--------------------------|-----------------------------------|--|-------------|----------|---|
| LastOrSurname | CEDS ID 172 K12->K12 Student->Identity->Name | 35 | De-identified: Never | Student Last Name | Alphanumeric/special xsd:token | One or more printable ASCII characters | | Sojka | FirstName and LastOrSurname are required fields, but TR can be configured to not transmit this data if the State wishes to withhold identity data |
| FirstName | CEDS ID 115 K12->K12 Student->Identity->Name | 35 | De-identified: Never | Student First Name | Alphanumeric/special xsd:token | One or more printable ASCII characters | | Bud | FirstName and LastOrSurname are required fields, but TR can be configured to not transmit this data if the State wishes to withhold identity data |
| MiddleName | CEDS ID 184 K12->K12 Student->Identity->Name | 35 | De-identified: Never | Student Middle Name | Alphanumeric/special xsd:token | One or more printable ASCII characters | | Johan | |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|-------------------|--|-------|----------------------|---|----------------------------|--|-------------|-------------|--|
| Birthdate | CEDS ID 33 K12->K12 Student->Demographic | 10 | De-identified: Never | The year, month and day on which a person was born, in the format YYYY-MM-DD (zero-padded) | Numeric+dash xsd:string | 1900 <= YYYY <= 9999 01 <= MM <= 12 01 <= DD <= 31 | | 2013-08-31 | Add leading zero if less than 2 digit month or day |
| StudentIdentifier | CEDS ID 1071 K12->K12 Student->Identity->Identification | 40 | De-identified: Never | State assigned student Identifier which is unique within that state. Every student should have a unique SSID within their state. | Alphanumeric xsd:token | One or more printable ASCII characters | | 82811007 | |
| AlternateSSID | N/A | 50 | Always | A State assigned student Identifier which is unique within that state. This identifier is used by states that do not wish to share student personal identifying information outside of state-deployed | Alphanumeric xsd:token | One or more printable ASCII characters | | 32547685ABC | Do not validate SSIDs differently across different states. |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|------------------------|---|-------|----------|---|--------------------|--|---|----------|--|
| | | | | systems. Component s sending data to Consortium -deployed systems would use this alternate identifier rather than the student's SSID. | | | | | |
| GradeLevelWhenAssessed | CEDS ID 126 K12 -> Assessments - > Assessment Registration | 2 | Always | Student's enrolled grade. | Alphanumeric token | IT PR PK TK KG 01 02 03 04 05 06 07 08 09 10 11 12 13 PS UG | IT - Infant/toddler PR - Preschool PK - Prekindergarten TK - Transitional Kindergarten KG - Kindergarten 01 - First grade 02 - Second grade 03 - Third grade 04 - Fourth grade 05 - Fifth grade 06 - Sixth grade 07 - Seventh grade 08 - Eighth grade | 05 | Add leading zero if less than 2 digits |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|------------------------------|--|-------|----------|--|-------------------|-------------------|---|----------|---|
| | | | | | | | 09 - Ninth grade 10 - Tenth grade 11 - Eleventh grade 12 - Twelfth grade 13 - Grade 13 PS - Postsecondary UG - Ungraded | | |
| Sex | CEDS ID 255 K12->K12 Student->Demographic | 6 | Always | Student's gender | enum xsd:token | Male Female | | Female | |
| HispanicOrLatinoEthnicity | CEDS ID 144 K12->K12 Student->Demographic | 3 | Always | Hispanic Ethnic Flag | enum xsd:token | Yes No | | No | One or more race fields (below) must also be marked 'Yes' |
| AmericanIndianOrAlaskaNative | CEDS ID 16 K12->K12 Student->Demographic | 3 | Always | American Indian/Alaskan Native Race Flag | enum xsd:token | Yes No | | Yes | At least one race field must be marked Yes |
| Asian | CEDS ID 20 K12->K12 Student->Demographic | 3 | Always | Asian Race Flag | enum xsd:token | Yes No | | No | At least one race field must be marked Yes |
| BlackOrAfricanAmerican | CEDS ID 34 K12->K12 Student->Demographic | 3 | Always | African American Race Flag | enum xsd:token | Yes No | | Yes | At least one race field must be marked Yes |
| White | CEDS ID 301 K12->K12 Student->Demographic | 3 | Always | White Race Flag | enum xsd:token | Yes No | | No | At least one race field must be marked Yes |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|--------------------------------------|--|-------|----------|--|-------------------|-------------------------------------|-------------|----------|--|
| NativeHawaiianOrOtherPacificIslander | CEDS ID 192 K12->K12 Student->Demographic | 3 | Always | Native Hawaiian/Other Pacific Islander Race Flag | enum xsd:token | Yes No | | Yes | At least one race field must be marked Yes |
| DemographicRaceTwoOrMoreRaces | CEDS ID 973 K12 -> K12 Student -> Demographic | 3 | Always | A person having origins in any of more than one of the racial groups. | enum xsd:token | Yes No | | Yes | At least one race field must be marked Yes |
| IDEAIndicator | CEDS ID 151 K12->K12 Student->Disability | 3 | Always | Student Enrolled in IEP | enum xsd:token | Yes No | | No | |
| LEPStatus | CEDS ID 180 K12 -> K12 Student -> Limited English Proficiency | 3 | Always | Student identified as LEP | enum xsd:token | Yes No | | Yes | |
| Section504Status | CEDS ID 249 K12 -> K12 Student -> Disability | 22 | Always | Student with 504 plan | enum xsd:token | Yes No Unknown/Cannot Provide | | No | |
| EconomicDisadvantageStatus | CEDS ID 86 K12 -> K12 Student -> Economically Disadvantaged -> EconomicDisadvantageStatus | 3 | Always | An indication that the student met the State criteria for classification as having an economic disadvantage. | enum xsd:token | Yes No | | Yes | This field is not CEDS compliant due to the name change from TitleITargetedAssistanceParticipationStatus |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|---------------------------------|--|-------|----------|---|-----------------------|--|-------------|----------|---|
| LanguageCode | CEDS ID 317 K12 -> K12 Student -> Language and CEDS Language Codes | 3 | Optional | The code for the specific language or dialect that a person uses to communicate. | enum xsd:token | see http://ceds.ed.gov/language/Codes.aspx | | fiu | |
| EnglishLanguageProficiencyLevel | N/A | 20 | Optional | An indication of the progress made by a student toward English proficiency | Alphanum xsd:token | One or more printable ASCII characters | | PROGRESS | This field is not CEDS compliant due to the name change from TitleIIIAccountabilityProgressStatus (CEDS ID 536). Furthermore, the Acceptable Values have changed to non-enum, alphanum entry. |
| MigrantStatus | CEDS ID 189 K12 -> K12 Student -> Migrant -> MigrantStatus | 3 | Optional | Persons who are, or whose parents or spouses are, migratory agricultural workers, including migratory dairy workers, or migratory fishers, and who, in the preceding 36 months, in order to obtain, or accompany such parents or spouses, in order to obtain, | enum xsd:token | Yes No <blank> | | Yes | |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|----------------------------|--|-------|----------|---|----------------------------|-----------------------|-------------|------------|---|
| | | | | temporary or seasonal employment in agricultural or fishing work (A) have moved from one LEA to another; (B) in a state that comprises a single LEA, have moved from one administrative area to another within such LEA; or (C) reside in an LEA of more than 15,000 square miles, and migrate a distance of 20 miles or more to a temporary residence to engage in a fishing activity. | | | | | |
| FirstEntryDateIntoUSSchool | CEDS ID 529 K12 -> K12 Student -> Immigrant | 10 | Optional | The year, month and day of a person's initial enrollment | Numeric+dash xsd:string | YYYY-MM-DD <blank> | | 2013-08-31 | Add leading zero to MM and DD if less than 2 digits |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|--|---|-------|----------|---|---------------------------|--|---|------------------|---|
| | | | | into a United States school. | | | | | |
| LimitedEnglishProficiencyEntryDate | CEDS ID 1247 K12 -> K12 Student -> Limited English Proficiency | 10 | Optional | The year, month and day a student classified as limited English proficient entered the LEP program. | Numeric+dash xsd:token | YYYY-MM-DD <blank> | | 2013-08-31 | Add leading zero to MM and DD if less than 2 digits |
| LEPExitDate | CEDS ID 570 K12 -> K12 Student -> Limited English Proficiency | 10 | Optional | The year, month and day a student classified as limited English proficient exited the LEP program. | Numeric+dash xsd:token | YYYY-MM-DD <blank> | | 2013-08-31 | Add leading zero to MM and DD if less than 2 digits |
| TitleIIILanguageInstructionProgramType | CEDS ID 447 K12 -> K12 School -> Institution Characteristics | 27 | Optional | Title III Language Instruction Program Type | enum xsd:token | DualLanguage, TwoWayImmersion, TransitionalBilingual, DevelopmentalBilingual, HeritageLanguage, ShelteredEnglishInstruction, StructuredEnglishImmersion, SDAIE, ContentBasedESL, PullOutESL, Other | DualLanguage - Dual language TwoWayImmersion - Two-way immersion TransitionalBilingual - Transitional bilingual DevelopmentalBilingual - Developmental bilingual HeritageLanguage - | HeritageLanguage | |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|-----------------------|---|-------|----------|--|-------------------|--|--|----------|----------------|
| | | | | | | | Heritage language Sheltered English Instruction - Sheltered English instruction Structured English Immersion - Structured English immersion SDAIE - Specially designed academic instruction delivered in English (SDAIE) ContentBasedESL - Content-based ESL PullOutESL - Pull-out ESL Other - Other | | |
| PrimaryDisabilityType | CEDS ID 218 K12 -> K12 Student -> Disability | 3 | Optional | The major or overriding disability condition that best describes a person's impairment . | enum xsd:token | AUT, DB, DD, EMN, HI, ID, MD, OI, OHI, SLD, SLI, TBI, VI | AUT - Autism DB - Deaf-blindness DD - Developmental delay EMN - Emotional disturbance HI - Hearing impairment ID - Intellectual Disability MD - Multiple | EMN | |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|------------|-----------|-------|----------|--------------------------|------|-------------------|--|----------|----------------|
| | | | | | | | disabilities OI - Orthopedic impairment OHI - Other health impairment SLD - Specific learning disability SLI - Speech or language impairment TBI - Traumatic brain injury VI - Visual impairment | | |

Table 3: examineeAttribute Details (from ART specification [2], Table 23)

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|-------------------|--|-------|-------------------------|---|---------------------------|--|---|----------|--|
| StateAbbreviation | CEDS ID 267 K12 -> SEA -> Address USPS | 2 | Always | 2 character state code | enum xsd:token | Two-character US State identifier as defined by CEDS and extended as follows: AA, AE, AP, TS, OT. | AA: Armed Forces Americas AE: Armed Forces Africa, Canada, Europe and Mideast AP: Armed Forces Pacific TS: Test State OT: Other | WA | Must be present in database prior to adding students to it |
| DistrictId | CEDS ID 637 K12 -> K12 Student -> Enrollment | 40 | De-identified: Optional | The district responsible for specific educational services and/or instruction of the student. | Alphanumeric xsd:token | One or more printable ASCII characters | | 71715 | Must be present in database prior to adding students to it |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples | Business Rules |
|------------------|--|-------|-------------------------|---|-----------------------------------|---|-------------|-----------------------------|--|
| DistrictName | CEDS ID 204 K12 -> LEA -> Identification | 60 | De-identified: Optional | The name of a non-person entity (in this case a district). | Alphanum xsd:token | One or more printable ASCII characters | | Oakland Unified | |
| SchoolId | CEDS ID 1069 K12->K12 Student->Enrollment | 40 | De-identified: Optional | The school responsible for specific education services and/or instruction of the student. | Alphanum xsd:token | One or more printable ASCII characters | | 8716411 | Must be present in database and associated with Attending District IRN (ResponsibleDistrictIdentifier) |
| SchoolName | CEDS ID 191 K12 -> K12 School -> Identification | 60 | De-identified: Optional | Institution Name | Alphanumeric/special xsd:token | One or more printable ASCII characters | | Lake Los Angeles Elementary | |
| StateName | n/a | 50 | Optional | Full state name | Alpha xsd:token | One or more printable ASCII characters for State name, spaces and commas allowed. | | California | |
| StudentGroupName | N/A | 50 | Optional | Name of student group | Alphanum xsd:token | One or more printable ASCII characters | | Brennan Math | |

Table 4: ExamineeRelationship/name Definitions

Accessibility Features

For Smarter Balanced exams, Accessibility Features are divided into three categories: Universal Tools, which are made available to all students; Designated Supports, which require pre-authorization by a teacher or administrator; and Accommodations, which require a student to have a documented disability or IEP plan. The Smarter Balanced “Usability, Accessibility, and Accommodations Guidelines” offer more detail about the categories and specific features. Because the file format predates this categorization, the <Accommodation> element is used to report all accessibility feature types. The types whose acceptable values (codes) begin with TDS_ are accommodations; those beginning with NEDS_ are Non-Embedded Designated Supports; those beginning with NEA_ are Non-Embedded Accommodations.

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples |
|------------|-----------|-------|----------|--------------------------|------|-------------------|-------------|----------|
|------------|-----------|-------|----------|--------------------------|------|-------------------|-------------|----------|

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples |
|----------------------|-----------|-------|---|---|-------------------|--|---|----------------|
| AmericanSignLanguage | N/A | 10 | Required if the resource is made available. | Allows students to view test content translated into ASL by a human signer. | enum xsd:token | TDS_ASLO TDS_AS11 | Do not show ASL videos: TDS_ASLO Show ASL videos: TDS_AS11 | TDS_AS11 |
| ColorContrast | N/A | 40 | Required if the resource is made available. | By default, tests are presented with black text on a white background. Students who require a different combination of text and background should be assigned the appropriate setting. | enum xsd:token | TDS_CC0 TDS_CCInvert TDS_CCMagenta TDS_CCMedGrayLtGray TDS_CCYellowB | Black on White: TDS_CC0 Reverse Contrast: TDS_CCInvert Black on Rose: TDS_CCMagenta Medium Gray on Light Gray: TDS_CCMedGrayLtGray Yellow on Blue: TDS_CCYellowB | TDS_CC0 |
| ClosedCaptioning | N/A | 20 | Required if the resource is made available. | The Closed Captioning accommodation will not be available for the Field Test; however, for students who would typically have received this accommodation, the Closed Captioning setting can still be selected in TIDE. For the Field Test only, selecting this setting will suppress the Listening portion of the ELA test. | enum xsd:token | TDS_ClosedCap0 TDS_ClosedCap1 | Closed Captioning Not Available: TDS_ClosedCap0 Closed Captioning Available: TDS_ClosedCap1 | TDS_ClosedCap0 |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples |
|----------------|-----------|-------|---|---|-------------------|------------------------------|--|--------------|
| Language | N/A | 20 | Required if the resource is made available. | All tests are presented in English. Students who qualify for a Spanish language translation will view items in both English and Spanish (stacked format). Students who require tests in braille should have the braille option selected. | enum xsd:token | ENU ENU-Braille ESN | English: ENU Braille: ENU-Braille Spanish (Stacked Translation): ESN (Math only) | ENU |
| Masking | N/A | 15 | Required if the resource is made available. | Allows blocking of content that is not of immediate need or that may be distracting to the student. | enum xsd:token | TDS_Masking0 TDS_Masking1 | Masking Not Available: TDS_Masking0 Masking Available: TDS_Masking1 | TDS_Masking0 |
| PermissiveMode | N/A | 10 | Required if the resource is made available. | Permissive mode should be enabled for students who require access to accessibility software in order to interact with the test (e.g., screen readers, magnifiers, etc.). When permissive mode is disabled, the only application that can be open on the computer is the secure browser. | enum xsd:token | TDS_PM0 TDS_PM1 | Permissive Mode Disabled: TDS_PM0 Permissive Mode Enabled: TDS_PM1 | TDS_PM0 |
| PrintOnDemand | N/A | 40 | Required if the resource | Sets student's print on demand accommodation. | enum xsd:token | TDS_PoD0 TDS_PoD_Stim | None: TDS_PoD0 Stimuli: TDS_PoD_Stim | TDS_PoD0 |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples |
|----------------------|-----------|-------|---|---|-------------------|---|--|---------------|
| | | | is made available. | Allows student to request printing of stimuli. | | | | |
| PrintSize | N/A | 10 | Required if the resource is made available. | Sets student's print size accommodation. The print size the student should have when starting a test. The selected print size becomes the default for all items in that student's test. * The default print size for all tests is 14 pt. * The default font for ELA tests is Times New Roman. * The default font for mathematics tests is Verdana. | enum xsd:token | TDS_PS_L0 TDS_PS_L1 TDS_PS_L2 TDS_PS_L3 TDS_PS_L4 | No default zoom applied: TDS_PS_L0 Level 1: TDS_PS_L1 Level 2: TDS_PS_L2 Level 3: TDS_PS_L3 Level 4: TDS_PS_L4 | TDS_PS_L0 |
| StreamlinedInterface | N/A | 20 | Required if the resource is made available. | By default, all tests use the standard interface. This interface is compatible with all supported desktops and tablets. The streamlined interface presents the test in an alternate, simplified format in which the items are displayed below the stimuli. All tool and navigation | enum xsd:token | TDS_TS_Modern TDS_TS_Accessibility | Standard: TDS_TS_Modern Streamlined: TDS_TS_Accessibility | TDS_TS_Modern |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples |
|------------------------|-----------|-------|---|---|-------------------|--|--|----------|
| | | | | buttons are on the bottom of the screen. Important: The streamlined interface is not intended to be tablet compatible. | | | | |
| TexttoSpeech | N/A | 40 | Required if the resource is made available. | Sets student's text to speech accommodation. Students with this test setting enabled may listen to the read-aloud of the items and/or stimuli in the assessment. Note: Text-to-Speech is not available in Spanish. | enum xsd:token | TDS_TTS0 TDS_TTS_Item TDS_TTS_Stim TDS_TTS_Stim&TDS_TTS_Item | None: TDS_TTS0 Items Only: TDS_TTS_Item (ELA only) Stimuli Only: TDS_TTS_Stim (ELA only) Stimuli and Items: TDS_TTS_Stim&TDS_TTS_Item | TDS_TTS0 |
| Translation (Glossary) | N/A | 50 | Required if the resource is made available. | Sets student's glossary accommodation. Students can open a glossary to view terms presented on the test that may be unfamiliar to them. By design, all students can access the English glossary word list as a universal tool, unless this is disabled ("None") or overridden by another language. * If a combination glossary is | enum xsd:token | TDS_WL_Glossary TDS_WL_ArabicGloss TDS_WL_CantoneseGloss TDS_WL_ESNGlossary TDS_WL_KoreanGloss TDS_WL_MandarinGloss TDS_WL_PunjabiGloss TDS_WL_RussianGloss TDS_WL_TagalGloss TDS_WL_UkrainianGloss TDS_WL_VietnameseGloss TDS_WL_Glossary&TDS_WL_ArabicGloss TDS_WL_Glossary&TDS_WL_CantoneseGloss TDS_WL_Glossary&TDS_WL_ESNGlossary TDS_WL_Glossary&TDS_WL_KoreanGloss TDS_WL_Glossary&TDS_WL_MandarinGloss TDS_WL_Glossary&TDS_WL_PunjabiGloss TDS_WL_Glossary&TDS_WL_RussianGloss TDS_WL_Glossary&TDS_WL_TagalGloss TDS_WL_Glossary&TDS_WL_UkrainianGloss TDS_WL_Glossary&TDS_WL_VietnameseGloss TDS_WLO | English: TDS_WL_Glossary Arabic: TDS_WL_ArabicGloss (Math only) Cantonese: TDS_WL_CantoneseGloss (Math only) Spanish: TDS_WL_ESNGlossary (Math only) Korean: TDS_WL_KoreanGloss (Math only) Mandarin: TDS_WL_MandarinGloss (Math only) Punjabi: TDS_WL_PunjabiGloss (Math only) Russian: TDS_WL_RussianGloss (Math only) Filipino: TDS_WL_TagalGloss (Math only) Ukrainian: TDS_WL_UkrainianGloss (Math only) Vietnamese: TDS_WL_VietnameseGloss (Math only) English & Arabic: TDS_WL_Glossary&TDS_WL_ArabicGloss (Math only) English & Cantonese: TDS_WL_Glossary&TDS_WL_CantoneseGloss (Math only) English & Spanish: TDS_WL_Glossary&TDS_WL_ESNGlossary (Math only) | TDS_WLO |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples |
|-------------------------------|-----------|-------|---|---|-------------------|--|---|----------|
| | | | | selected (e.g., English and Arabic or English and Russian), then the student will have access to both. * If a single glossary is selected (e.g., Mandarin), then the student will only have access to that glossary. The English glossary will not be available. Note: The English glossary is available for both ELA and mathematics tests. Translated glossaries are available for mathematics tests only. | | | English & Korean: TDS_WL_Glossary&TDS_WL_KoreanGloss (Math only) English & Mandarin: TDS_WL_Glossary&TDS_WL_MandarinGloss (Math only) English & Punjabi: TDS_WL_Glossary&TDS_WL_PunjabiGloss (Math only) English & Russian: TDS_WL_Glossary&TDS_WL_RussianGloss (Math only) English & Filipino: TDS_WL_Glossary&TDS_WL_TagalGloss (Math only) English & Ukrainian: TDS_WL_Glossary&TDS_WL_UkrainianGloss (Math only) English & Vietnamese: TDS_WL_Glossary&TDS_WL_VietnameseGloss (Math only) None: TDS_WLO | |
| NonEmbeddedDesignatedSupports | N/A | 40 | Required if the resource is made available. | Some designated supports may need to be provided to students during testing. These should be provided only to those students who are unable to use the embedded test settings. | enum xsd:token | NEDSO NEDS_BD NEDS_CC NEDS_CO NEDS_Mag NEDS_RA_Items NEDS_SC_Items NEDS_SS NEDS_TArabic NEDS_TCantonese NEDS_TFilipino NEDS_TKorean NEDS_TMandarin NEDS_TPunjabi NEDS_TRussian NEDS_TSpanish NEDS_TUkrainian | **** Non-Embedded Designated Supports: ELA **** None: NEDSO Bilingual Dictionary: NEDS_BD Color Contrast: NEDS_CC Color Overlay: NEDS_CO Magnification: NEDS_Mag Read Aloud Items: NEDS_RA_Items Scribe Items (Non-Writing): NEDS_SC_Items Separate Setting: NEDS_SS **** Non-Embedded Designated Supports: Math **** None: NEDSO Color Contrast: NEDS_CC Color Overlay: NEDS_CO Magnification: NEDS_Mag Read Aloud Items: NEDS_RA_Items Scribe Items (Non-Writing): NEDS_SC_Items | NEDS_CO |

| Field Name | Reference | Width | Required | Data Element Description | Type | Acceptable Values | Definitions | Examples |
|---------------------------|-----------|-------|---|---|-----------------------|---|---|---------------------------------|
| | | | | | | NEDS_TVietnamese NEDS_TransDirs | Separate Setting: NEDS_SS Glossary - Arabic: NEDS_TArabic Glossary - Cantonese: NEDS_TCantonese Glossary - Filipino: NEDS_TFilipino Glossary - Korean: NEDS_TKorean Glossary - Mandarin: NEDS_TMandarin Glossary - Punjabi: NEDS_TPunjabi Glossary - Russian: NEDS_TRussian Glossary - Spanish: NEDS_TSpanish Glossary - Ukrainian: NEDS_TUkrainian Glossary - Vietnamese: NEDS_TVietnamese Translated test directions: NEDS_TransDirs | |
| NonEmbeddedAccommodations | N/A | 20 | Required if the resource is made available. | Some accommodations may need to be provided to students during testing. These should be provided only to those students who are unable to use the embedded test accommodations. | enum xsd:token | NEAO NEA_AR NEA_RA_Stimuli NEA_SC_WritItems NEA_STT NEA_Abacus NEA_Calc NEA_MT NEA_NoiseBuf | None: NEAO Alternate Response Options: NEA_AR Read Aloud Stimuli: NEA_RA_Stimuli (ELA only) Scribe Items (Writing): NEA_SC_WritItems (ELA only) Speech-to-Text: NEA_STT Abacus: NEA_Abacus (Math only) Calculator: NEA_Calc (Math only) Multiplication Table: NEA_MT (Math only) Noise buffers: NEA_NoiseBuf | NEA_STT |
| Other | N/A | 300 | Required if the resource is made available. | Other designated supports or accommodations that are not listed here. | Alphanum xsd:token | One or more printable ASCII characters | | Student requires soothing music |

Table 5: Accessibility Feature Definitions

Accessibility Feature Use Codes

Raw information regarding accessibility feature use is reported in the <Accommodation> elements as described in the table above. For each accommodation used by the student, a derivative “feature use code” is reported in a Score element. In these elements, the “measureLabel” property is set to “accommodation”, the “measureOf” property is set to the accommodation type, and the “score” property is set to one of “feature use codes” in the table

below. The current open source solution does not track whether the feature was **designated** for a student and only tracks **uses** in select cases. Accordingly, only values 3, 4, 6, 7 and 8 are likely to appear in test results. The other values are defined to provide for future enhancement.

| Feature Use Code | Designated | Available | Used | Notes | Reported by v1 |
|------------------|------------|-----------|---------|----------------------|----------------|
| 0 | unknown | unknown | unknown | | |
| 1 | unknown | unknown | No | | |
| 2 | unknown | unknown | Yes | | |
| 3 | unknown | No | unknown | | X |
| 4 | unknown | No | No | | X |
| 5 | unknown | No | Yes | Invalid state | |
| 6 | unknown | Yes | unknown | | X |
| 7 | unknown | Yes | No | | X |
| 8 | unknown | Yes | Yes | | X |
| 9 | No | unknown | unknown | | |
| 10 | No | unknown | No | | |
| 11 | No | unknown | Yes | Testing irregularity | |
| 12 | No | No | unknown | | |
| 13 | No | No | No | | |
| 14 | No | No | Yes | Invalid state | |
| 15 | No | Yes | unknown | | |
| 16 | No | Yes | No | | |
| 17 | No | Yes | Yes | Testing irregularity | |
| 18 | Yes | unknown | unknown | | |

| | | | | | |
|----|-----|---------|---------|----------------------|--|
| 19 | Yes | unknown | No | | |
| 20 | Yes | unknown | Yes | | |
| 21 | Yes | No | unknown | Testing irregularity | |
| 22 | Yes | No | No | Testing irregularity | |
| 23 | Yes | No | Yes | Invalid state | |
| 24 | Yes | Yes | unknown | | |
| 25 | Yes | Yes | No | | |
| 26 | Yes | Yes | Yes | | |

Table 6: Accessibility Feature Use Codes

Scores Used by Smarter Balanced Assessments

Smarter Balanced and related assessments report on overall scaled score and either three (math) or four (ELA) claim scores. The scaled score is mapped to one of four achievement levels. The claim scores are mapped to one of three performance ratings. Claim scores are on the same scale as the overall score. The following table indicates how these scores and the accommodations appear in the “Score” elements of the test result format.

| measureOf | measureLabel | value | standardError | Description |
|-----------|------------------|-------------|---------------|--|
| Overall | ScaleScore | xsd:decimal | xsd:decimal | The overall scale score for the entire test. |
| Overall | PerformanceLevel | 1-4 | not included | The achievement level corresponding to the scale score. |
| Reading | ScaleScore | xsd:decimal | xsd:decimal | The scale score for the “Reading” claim (ELA test only). |
| Reading | PerformanceLevel | 1-3 | not included | The performance level for the “Reading” claim (ELA test only). |
| Writing | ScaleScore | xsd:decimal | xsd:decimal | The scale score for the “Writing” claim (ELA test only). |
| Writing | PerformanceLevel | 1-3 | not included | The performance level for the “Writing” claim (ELA test only). |
| Listening | ScaleScore | xsd:decimal | xsd:decimal | The scale score for the “Listening” claim (ELA test only). |

| | | | | |
|----------------------|------------------|-----------------------|--------------|---|
| Listening | PerformanceLevel | 1-3 | not included | The performance level for the “Listening” claim (ELA test only). |
| Research | ScaleScore | xsd:decimal | xsd:decimal | The scale score for the “Research and Inquiry” claim (ELA test only). |
| Research | PerformanceLevel | 1-3 | not included | The performance level for the “Research and Inquiry” claim (ELA test only). |
| Concepts | ScaleScore | xsd:decimal | xsd:decimal | The scale score for the “Concepts and Procedures” claim (Math test only). |
| Concepts | PerformanceLevel | 1-3 | not included | The performance level for the “Concepts and Procedures” claim (Math test only). |
| PSMDA | ScaleScore | xsd:decimal | xsd:decimal | The scale score for the “Problem Solving and Modeling & Data Analysis” claim (Math test only). |
| PSMDA | PerformanceLevel | 1-3 | not included | The performance level for the “Problem Solving and Modeling & Data Analysis” claim (Math test only). |
| Reasoning | ScaleScore | xsd:decimal | xsd:decimal | The scale score for the “Communicating Reasoning” claim (Math test only). |
| Reasoning | PerformanceLevel | 1-3 | not included | The performance level for the “Communicating Reasoning” claim (Math test only). |
| Calculator | Accommodation | Feature use code 0-26 | not included | Reports use of the “Calculator” accessibility feature. (Only present if the feature use code has a relevant value) |
| Print on Demand | Accommodation | Feature use code 0-26 | not included | Reports use of the “Print on Demand” accessibility feature. (Only present if the feature use code has a relevant value) |
| other accommodations | Accommodation | Feature use code 0-26 | not included | Accommodations only appear made available to or used by the student. |

Aggregating Multiple Test Results into One XML File

The Test Score Batching API requires that each test result be transmitted in a separate file according to the XSD definition below. When transmitting results for archive via Secure FTP, multiple results may be aggregated into one .xml file by wrapping all of the results into an outer <TDSReports> element as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<TDSReports>
  <TDSReport>
```

```
(test result 1)
</TDSReport>
<TDSReport>
  (test result 2)
</TDSReport>
...
<TDSReport>
  (test result n)
</TDSReport>
</TDSReports>
```

Test Integration Format XSD

The following section contains the XSD describing the TDSReport XML file, which is the file sent by the Test Integration component to the Data Warehouse(s).

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified">
  <xs:element name="TDSReport">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="Test" minOccurs="1" maxOccurs="1">
          <xs:complexType>
            <xs:sequence>
              <xs:attribute name="name" use="required" />
              <xs:attribute name="subject" use="required" />
              <xs:attribute name="testId" use="required" />
              <xs:attribute name="bankKey" type="xs:unsignedInt" />
              <xs:attribute name="contract" use="required" />
              <xs:attribute name="mode" use="required">
                <xs:simpleType>
                  <xs:restriction base="xs:token">
                    <xs:enumeration value="online" />
                    <xs:enumeration value="paper" />
                    <xs:enumeration value="scanned" />
                  </xs:restriction>
                </xs:simpleType>
              </xs:attribute>
              <xs:attribute name="grade" use="required" />
              <!-- not expected to be used for open source, but may be needed for internal purposes -->
              <xs:attribute name="handScoreProject" type="xs:unsignedInt" />
              <!-- new fields requested for open source -->
              <xs:attribute name="assessmentType" />
              <xs:attribute name="academicYear" type="xs:unsignedInt" />
              <xs:attribute name="assessmentVersion" />
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="Examinee" minOccurs="1" maxOccurs="1">
          <xs:complexType>
            <xs:choice minOccurs="0" maxOccurs="unbounded">
              <xs:element name="ExamineeAttribute">
                <xs:complexType>
                  <xs:sequence>
                    <xs:attribute name="context" use="required" type="Context" />
                    <xs:attribute name="name" use="required" />
                    <xs:attribute name="value" />
                    <xs:attribute name="contextDate" use="required" type="xs:dateTime" />
                  </xs:sequence>
                </xs:complexType>
              </xs:element>
            </xs:choice>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

```

        </xs:complexType>
      </xs:element>
      <xs:element name="ExamineeRelationship">
        <xs:complexType>
          <xs:attribute name="context" use="required" type="Context" />
          <xs:attribute name="name" use="required" />
          <xs:attribute name="entityKey" type="xs:unsignedLong" />
          <xs:attribute name="value" />
          <xs:attribute name="contextDate" use="required" type="xs:dateTime" />
        </xs:complexType>
      </xs:element>
    </xs:choice>
    <!-- negative values are used by TDS for testing. -->
    <xs:attribute name="key" type="xs:long" use="required" />
    <xs:attribute name="isDemo" type="Bit" />
  </xs:complexType>
</xs:element>
<xs:element name="Opportunity" minOccurs="1" maxOccurs="1">
  <xs:complexType>
    <xs:sequence>
      <!-- note: DTD has minOccurs=1, but we could get an invalidation for a joined but
      not-started test; no seg will have been initialized in this case -->
      <xs:element name="Segment" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
          <xs:attribute name="id" use="required" />
          <xs:attribute name="position" use="required">
            <xs:simpleType>
              <xs:restriction base="xs:unsignedByte">
                <xs:minInclusive value="1" />
              </xs:restriction>
            </xs:simpleType>
          </xs:attribute>
          <xs:attribute name="formId" />
          <xs:attribute name="formKey" />
          <xs:attribute name="algorithm" use="required" />
        <!-- new field requested for open source -->
        <xs:attribute name="algorithmVersion" />
      </xs:complexType>
    </xs:element>
    <xs:element name="Accommodation" minOccurs="0" maxOccurs="unbounded">
      <xs:complexType>
        <xs:attribute name="type" use="required" />
        <xs:attribute name="value" use="required" />
      <!-- DTD says implied, but this cannot be null -->
      <xs:attribute name="code" use="required" />
      <!-- DTD says implied, but this will always be populated; 0 if not segment-oriented -->
    </xs:element>
  </xs:sequence>

```



```

<xs:attribute name="segment" use="required">
  <xs:simpleType>
    <xs:restriction base="xs:unsignedInt">
      <xs:minInclusive value="0" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>
</xs:element>
<xs:element name="Score" minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:attribute name="measureOf" use="required" />
    <xs:attribute name="measureLabel" use="required" />
    <xs:attribute name="value" use="required" />
    <xs:attribute name="standardError" type="NullableFloat" />
  </xs:complexType>
</xs:element>
<xs:element name="GenericVariable" minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:attribute name="context" use="required" />
    <xs:attribute name="name" use="required" />
    <xs:attribute name="value" use="required" />
  </xs:complexType>
</xs:element>
<xs:element name="Item" minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Response" minOccurs="0" maxOccurs="1">
        <xs:complexType mixed="true">
          <xs:attribute name="date" type="xs:dateTime" />
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="type">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="value" />
          <xs:enumeration value="reference" />
          <xs:enumeration value="" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
  </xs:complexType>
</xs:element>
<xs:element name="ScoreInfo" type="ScoreInfoType" minOccurs="0" maxOccurs="1" />
</xs:sequence>
<xs:attribute name="position" use="required" type="xs:unsignedInt" />
<xs:attribute name="segmentId" use="required" />
<xs:attribute name="bankKey" use="required" type="xs:unsignedInt" />

```

```

        <xs:attribute name="key" use="required" type="xs:unsignedInt" />
        <xs:attribute name="operational" use="required" type="Bit" />
        <xs:attribute name="isSelected" use="required" type="Bit" />
        <xs:attribute name="format" use="required" />
        <xs:attribute name="score" use="required" type="UFloatAllowNegativeOne" />
<!-- may not be set for unselected items, or may be set to NOTSCORED -->
<xs:attribute name="scoreStatus">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="NOTSCORED" />
      <xs:enumeration value="SCORED" />
      <xs:enumeration value="WAITINGFORMACHINESCORE" />
      <xs:enumeration value="SCORINGERROR" />
      <!-- future -->
      <xs:enumeration value="APPEALED" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
        <xs:attribute name="adminDate" use="required" type="xs:dateTime" />
        <xs:attribute name="numberVisits" use="required" type="xs:unsignedInt" />
<xs:attribute name="mimeType" use="required">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="text/plain" />
      <xs:enumeration value="text/xml" />
      <xs:enumeration value="text/html" />
      <xs:enumeration value="audio/ogg" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
        <xs:attribute name="clientId" />
        <xs:attribute name="strand" use="required" />
        <xs:attribute name="contentLevel" use="required" />
        <xs:attribute name="pageNumber" use="required" type="xs:unsignedInt" />
        <xs:attribute name="pageVisits" use="required" type="xs:unsignedInt" />
<!-- this should really be unsignedInt, but there are rare occasions
where it cannot be calculated correctly and we get a negative value. -->
        <xs:attribute name="pageTime" use="required" type="xs:int" />
        <xs:attribute name="dropped" use="required" type="Bit" />
      </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="server" use="required" />
  <xs:attribute name="database" />
  <xs:attribute name="clientName" use="required" />
  <xs:attribute name="key" use="required" />

```

```

    <xs:attribute name="oppId" use="required" />
<!-- note: DTD says required, but may get invalidation for joined, not-started test -->
    <xs:attribute name="startDate" type="NullableDateTime" />
    <xs:attribute name="status" use="required">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="appeal" />
          <xs:enumeration value="completed" />
          <xs:enumeration value="expired" />
          <xs:enumeration value="handscoreing" />
          <xs:enumeration value="invalidated" />
          <xs:enumeration value="paused" />
          <xs:enumeration value="reported" />
          <xs:enumeration value="reset" />
          <xs:enumeration value="scored" />
          <xs:enumeration value="submitted" />
          <xs:enumeration value="pending" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
<!-- Validity is optional in 2014-2015 but will be required in future years -->
    <xs:attribute name="validity" use="optional">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="valid" />
          <xs:enumeration value="invalid" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
<!-- Completeness is optional in 2014-2015 but will be required in future years -->
    <xs:attribute name="completeness" use="optional">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="none" />
          <xs:enumeration value="partial" />
          <xs:enumeration value="complete" />
        </xs:restriction>
      </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="opportunity" use="required" type="xs:unsignedInt" />
    <xs:attribute name="statusDate" use="required" type="xs:dateTime" />
    <xs:attribute name="dateCompleted" type="NullableDateTime" />
    <xs:attribute name="pauseCount" use="required" type="xs:unsignedInt" />
    <xs:attribute name="itemCount" use="required" type="xs:unsignedInt" />
    <xs:attribute name="ftCount" use="required" type="xs:unsignedInt" />
    <xs:attribute name="abnormalStarts" use="required" type="xs:unsignedInt" />

```

```

        <xs:attribute name="gracePeriodRestarts" use="required" type="xs:unsignedInt" />
        <xs:attribute name="taId" />
        <xs:attribute name="taName" />
        <xs:attribute name="sessionId" />
        <xs:attribute name="windowId" use="required" />
        <xs:attribute name="windowOpportunity" type="NullableUInt" />
        <xs:attribute name="dateForceCompleted" type="NullableDateTime" />
        <xs:attribute name="qaLevel" />
    <!-- new field requested for open source -->
    <xs:attribute name="assessmentParticipantSessionPlatformUserAgent" />
    <!-- the first date of the first window for a given assessment. Format = YYYY-MM-DD -->
    <xs:attribute name="effectiveDate" />
    <xs:attribute name="reportingVersion" type="xs:unsignedInt" />
</xs:complexType>
</xs:element>
<xs:element name="Comment" minOccurs="0" maxOccurs="unbounded">
    <xs:complexType mixed="true">
    <!-- TODO: domain values; I've seen GlobalNotes and TESTITEM, but I'm not sure how rigid this is. -->
        <xs:attribute name="context" use="required" />
        <xs:attribute name="itemPosition" type="NullableUInt" />
        <xs:attribute name="date" use="required" type="xs:dateTime" />
    </xs:complexType>
</xs:element>
<xs:element name="ToolUsage" minOccurs="0" maxOccurs="unbounded">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="ToolPage" minOccurs="1" maxOccurs="unbounded">
                <xs:complexType>
                    <xs:attribute name="page" use="required" type="xs:unsignedInt" />
                    <xs:attribute name="groupId" use="required" />
                    <xs:attribute name="count" use="required" type="xs:unsignedInt" />
                </xs:complexType>
            </xs:element>
        </xs:sequence>
        <xs:attribute name="type" use="required" />
        <xs:attribute name="code" use="required" />
    </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<!-- recursive node requires global type so that it can be named -->
<xs:complexType name="ScoreInfoType">
    <xs:sequence>
        <xs:element name="ScoreRationale" minOccurs="0" maxOccurs="1">
            <xs:complexType>

```

```

    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="Message" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
  <xs:element name="SubScoreList" minOccurs="0" maxOccurs="1">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ScoreInfo" type="ScoreInfoType" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
<!-- same constraints as item/@score -->
  <xs:attribute name="scorePoint" type="UFloatAllowNegativeOne" />
<xs:attribute name="maxScore" type="UFloatAllowNegativeOne" />
<!-- top level will always be "overall" (if not null); this represents the item score. Nested ScoreInfo nodes will have dimension level scores
if applicable, so this will be the dimension name. An additional level of nesting may be used for hand-scoring reads. -->
  <xs:attribute name="scoreDimension" />
<xs:attribute name="scoreStatus">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="Scored" />
      <xs:enumeration value="NotScored" />
      <xs:enumeration value="WaitingForMachineScore" />
      <xs:enumeration value="ScoringError" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="confLevel" />
</xs:complexType>
<!-- some reusable types -->
<xs:simpleType name="Bit">
  <xs:restriction base="xs:unsignedByte">
    <xs:minInclusive value="0" />
    <xs:maxInclusive value="1" />
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Empty">
  <xs:restriction base="xs:string">
    <xs:enumeration value="" />
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="NegativeOne">
  <xs:restriction base="xs:string">
    <xs:enumeration value="-1" />
  </xs:restriction>
</xs:simpleType>

```

```
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="NullableDateTime">
  <xs:union memberTypes="xs:dateTime Empty ">
    </xs:union>
  </xs:simpleType>
<xs:simpleType name="NullableUInt">
  <xs:union memberTypes="xs:unsignedInt Empty ">
    </xs:union>
  </xs:simpleType>
<xs:simpleType name="NullableFloat">
  <xs:union memberTypes="xs:float Empty ">
    </xs:union>
  </xs:simpleType>
<xs:simpleType name="Context">
  <xs:restriction base="xs:token">
    <xs:enumeration value="INITIAL" />
    <xs:enumeration value="FINAL" />
  </xs:restriction>
  </xs:simpleType>
<xs:simpleType name="UFloat">
  <xs:restriction base="xs:float">
    <xs:minInclusive value="0" />
  </xs:restriction>
  </xs:simpleType>
<xs:simpleType name="UFloatAllowNegativeOne">
  <xs:union memberTypes="UFloat NegativeOne ">
    </xs:union>
  </xs:simpleType>
</xs:schema>
```

Sample XML Output

Based on the XSD, the following section contains a sample XML output that can aid in the understanding of the implementation.

```
<TDSReport>
  <Test name="(SBAC)SBAC-FT-SomeDescription-MATH-7-Fall-2013-2014" subject="MA" testId="SBAC-FT-SomeDescription-MATH-7" bankKey="200" contract="SBAC" mode="online"
  grade="3-12" assessmentType="Formative" academicYear="2014" assessmentVersion="SomeNewVersion" />
  <Examinee key="922171">
    <ExamineeAttribute context="FINAL" name="DOB" value="07242001" contextDate="2014-04-14T11:13:41.803" />
    <ExamineeAttribute context="FINAL" name="Ethnicity" value="4" contextDate="2014-04-14T11:13:41.803" />
    <ExamineeAttribute context="FINAL" name="FirstName" value="John" contextDate="2014-04-14T11:13:41.803" />
    <ExamineeAttribute context="FINAL" name="Gender" value="M" contextDate="2014-04-14T11:13:41.803" />
    <ExamineeAttribute context="FINAL" name="Grade" value="07" contextDate="2014-04-14T11:13:41.803" />
    <ExamineeAttribute context="FINAL" name="LastName" value="Smith" contextDate="2014-04-14T11:13:41.803" />
    <ExamineeAttribute context="FINAL" name="SSID" value="CA-9999999598" contextDate="2014-04-14T11:13:41.803" />
    <ExamineeAttribute context="INITIAL" name="DOB" value="" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeAttribute context="INITIAL" name="Ethnicity" value="4" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeAttribute context="INITIAL" name="FirstName" value="John" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeAttribute context="INITIAL" name="Gender" value="M" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeAttribute context="INITIAL" name="Grade" value="07" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeAttribute context="INITIAL" name="LastName" value="Smith" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeAttribute context="INITIAL" name="SSID" value="CA-9999999598" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeRelationship context="FINAL" name="DistrictID" entityKey="709" value="CA_9999827" contextDate="2014-04-14T11:13:41.810" />
    <ExamineeRelationship context="FINAL" name="DistrictName" entityKey="709" value="This Elementary School District" contextDate="2014-04-14T11:13:41.810" />
    <ExamineeRelationship context="FINAL" name="SchoolID" entityKey="9426" value="CA_9999827_9999928" contextDate="2014-04-14T11:13:41.810" />
    <ExamineeRelationship context="FINAL" name="SchoolName" entityKey="9426" value="My Elementary School" contextDate="2014-04-14T11:13:41.810" />
    <ExamineeRelationship context="FINAL" name="StateName" entityKey="3" value="California" contextDate="2014-04-14T11:13:41.810" />
    <ExamineeRelationship context="INITIAL" name="DistrictID" entityKey="709" value="CA_9999827" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeRelationship context="INITIAL" name="DistrictName" entityKey="709" value="This Elementary School District" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeRelationship context="INITIAL" name="SchoolID" entityKey="9426" value="CA_999927_9999928" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeRelationship context="INITIAL" name="SchoolName" entityKey="9426" value="My Elementary School" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeRelationship context="INITIAL" name="StateName" entityKey="3" value="California" contextDate="2014-04-14T10:48:43.433" />
    <ExamineeRelationship context="INITIAL" name="StudentGroupName" value="Brennan Math" contextDate="2014-09-14T10:48:43.433" />
    <ExamineeRelationship context="INITIAL" name="StudentGroupName" value="Tuesday Science" contextDate="2014-09-14T10:48:43.433" />
    <ExamineeRelationship context="INITIAL" name="StudentGroupName" value="Smith Research" contextDate="2014-09-14T10:48:43.433" />
  </Examinee>
  <Opportunity server="562299-SBASQL8" database="CASBAC_SHARD_2013sp" clientName="California" key="71A3EE01-F215-4CCD-B74D-DF1097A01A0C" oppId="1855629"
  startDate="2014-04-14T10:49:08.437" status="completed" validity="valid" completeness="complete" opportunity="1" statusDate="2014-04-14T11:13:40.900"
  dateCompleted="2014-04-14T11:13:40.900" pauseCount="0" itemCount="6" ftCount="6" abnormalStarts="0" gracePeriodRestarts="0" taId="NA" taName="Ringnell, Brandi"
  sessionId="BLUE-5752-4" windowId="California" windowOpportunity="1" assessmentParticipantSessionPlatformUserAgent="Mozilla/5.0 (iPad; U; CPU OS 3_2_1 like Mac OS
  X; en-us; AppleWebKit/531.21.10 (KHTML, like Gecko) Mobile/7B405" effectiveDate="2014-04-02">
    <Segment id="(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014" position="1" formKey="200-10545" formId="SBAC-FT-Perf-7-Math-SomeDesc-2"
    algorithm="fixedform" algorithmVersion="0" />
    <Segment id="(SBAC)SBAC-FT-SomeDescriptionS2-MATH-7-Fall-2013-2014" position="2" formKey="200-10894" formId="SBAC::FT::Perf::7::Math::SomeDesc::999::2"
    algorithm="fixedform" algorithmVersion="0" />
  </Opportunity>
</TDSReport>
```

```

<Accommodation type="AmericanSignLanguage" value="4" code="ENU" segment="0"/>
<Accommodation type="AmericanSignLanguageInterpreter" value="0" code="ENU" segment="0" />
<Accommodation type="Braille" value="8" code="ENU" segment="0"/>
<Accommodation type="ClosedCaptioning" value="0" code="ENU" segment="0"/>
<Accommodation type="TTS" value="0" code="ENU" segment="0"/>
<Accommodation type="Abacus" value="0" code="ENU" segment="0"/>
<Accommodation type="AlternateResponseOptions" value="0" code="ENU" segment="0"/>
<Accommodation type="Calculator" value="0" code="ENU" segment="0" />
<Accommodation type="MultiplicationTable" value="0" code="ENU" segment="0"/>
<Accommodation type="PrintOnRequest" value="0" code="ENU" segment="0"/>
<Accommodation type="ReadAloud" value="0" code="ENU" segment="0"/>
<Accommodation type="Scribe" value="0" code="ENU" segment="0"/>
<Accommodation type="SpeechToText" value="0" code="ENU" segment="0"/>
<Score measureOf="Overall" measureLabel="ScaleScore" value="245.174914080214" standardError="19.3617008392283" />
<Score measureOf="Overall" measureLabel="PerformanceLevel" value="2" />
<Score measureOf="Reading" measureLabel="ScaleScore" value="352.897" standardError="619.751" />
<Score measureOf="Reading" measureLabel="PerformanceLevel" value="2" />
<Score measureOf="Writing" measureLabel="ScaleScore" value="185.002" standardError="78.321" />
<Score measureOf="Writing" measureLabel="PerformanceLevel" value="1" />
<Score measureOf="Listening" measureLabel="ScaleScore" value="403.416" standardError="204.982" />
<Score measureOf="Listening" measureLabel="PerformanceLevel" value="2" />
<Score measureOf="Research" measureLabel="ScaleScore" value="403.416" standardError="204.982" />
<Score measureOf="Research" measureLabel="PerformanceLevel" value="2" />
<Score measureOf="Print on Demand" measureLabel="Accommodation" value="6" />
<Score measureOf="Calculator" measureLabel="Accommodation" value="6" />
<Item position="2" segmentId="(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014" bankKey="200" key="15566" operational="0" isSelected="1" format="MC"
score="0" scoreStatus="SCORED" adminDate="2014-04-14T10:49:10.327" numberVisits="1" mimeType="text/plain" strand="3" contentLevel="3|EE|NA|E" pageNumber="1"
pageVisits="1" pageTime="69834" dropped="0">
  <Response date="2014-04-14T10:56:01.077">D</Response>
</Item>
<Item position="1" segmentId="(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014" bankKey="200" key="15558" operational="0" isSelected="1" format="EQ"
score="0" scoreStatus="SCORED" adminDate="2014-04-14T10:49:10.327" numberVisits="1" mimeType="text/plain" strand="2" contentLevel="2|G|NA|C" pageNumber="1"
pageVisits="1" pageTime="69834" dropped="0">
  <Response date="2014-04-14T11:09:27.457">
    <math xmlns="http://www.w3.org/1998/Math/MathML">
      <mstyle displaystyle="true">
        <math>4</math>
        <math>4</math>
        <math>1</math>
        <math>0</math>
      </mstyle>
    </math>
  </Response>
</Item>
<Item position="5" segmentId="(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014" bankKey="200" key="15560" operational="0" isSelected="1" format="EQ"
score="-1" scoreStatus="NOTSCORED" adminDate="2014-04-14T10:49:10.327" numberVisits="1" mimeType="text/plain" strand="2" contentLevel="2|EE|NA|A" pageNumber="1"

```



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pageVisits="1" pageTime="69834" dropped="0">
  <Response date="2014-04-14T11:09:27.423">
    <math xmlns="http://www.w3.org/1998/Math/MathML">
      <mstyle displaystyle="true">
        <math>2</math>
      </mstyle>
    </math></Response>
  </Item>
  <Item position="4" segmentId="(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014" bankKey="200" key="15562" operational="0" isSelected="1" format="EQ"
score="-1" scoreStatus="NOTSCORED" adminDate="2014-04-14T10:49:10.327" numberVisits="1" mimeType="text/plain" strand="4" contentLevel="4|EE|NA|E" pageNumber="1"
pageVisits="1" pageTime="69834" dropped="0">
  <Response date="2014-04-14T11:13:25.493">
    <math xmlns="http://www.w3.org/1998/Math/MathML">
      <mfrac>
        <math>x</math>
        <math>y</math>
      </mfrac>
      <math>\times 2217</math>
      <mfrac>
        <math>x</math>
        <math>y</math>
      </mfrac>
      <math>\times 2212</math>
      <math>\times 2212</math>
      <math>\times F7</math>
      </math></Response>
  </Item>
  <Item position="3" segmentId="(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014" bankKey="200" key="15570" operational="0" isSelected="1" format="SA"
score="-1" scoreStatus="NOTSCORED" adminDate="2014-04-14T10:49:10.327" numberVisits="1" mimeType="text/html" strand="3" contentLevel="3|RP|NA|B" pageNumber="1"
pageVisits="1" pageTime="69834" dropped="0">
  <Response date="2014-04-14T11:03:10.913">
    <p>2 miles away from the beginning</p>
  </Response>
  </Item>
  <Item position="6" segmentId="(SBAC)SBAC-FT-SomeDescriptionS1-MATH-7-Fall-2013-2014" bankKey="200" key="15573" operational="0" isSelected="1" format="GI"
score="-1" scoreStatus="NOTSCORED" adminDate="2014-04-14T10:49:10.327" numberVisits="1" mimeType="text/xml" strand="4" contentLevel="4|EE|NA|E" pageNumber="1"

```

```

pageVisits="1" pageTime="69834" dropped="0">
  <Response date="2014-04-14T11:13:25.480">
    <?xml version="1.0" encoding="utf-16"?>
    <!-- MACHINE GENERATED 4/14/14 8:18 AM. DO NOT EDIT -->
    <!DOCTYPE AnswerSet [
      <!ELEMENT AnswerSet (Question+)>
      <!ELEMENT AtomicObject (#PCDATA)>
      <!ELEMENT EdgeVector (#PCDATA)>
      <!ELEMENT GridImageTestPoints (TestPoint*)>
      <!ELEMENT LabellList (#PCDATA)>
      <!ELEMENT Object (PointVector,EdgeVector,LabellList,ValueList)>
      <!ELEMENT ObjectSet (Object,AtomicObject+)>
      <!ELEMENT PointVector (#PCDATA)>
      <!ELEMENT Question (QuestionPart)>
      <!-- ATTENTION: Question id NMTOKEN #REQUIRED -->
      <!ELEMENT QuestionPart (LabellList,GridImageTestPoints,ObjectSet)>
      <!-- ATTENTION: QuestionPart id NMTOKEN #REQUIRED -->
      <!ELEMENT TestPoint (#PCDATA)>
      <!ELEMENT ValueList (#PCDATA)>
    ]>
    <AnswerSet>
      <Question id="">
        <QuestionPart
          id="1">
            <ObjectSet>
              <Object>
                <PointVector>{(390,290)(390,200)(180,290)(300,110)(180,200)(210,110)}</PointVector>
                <EdgeVector>{
                  {(390,290),(390,200)} {(390,290),(180,290)} {(390,200),(300,110)} {(180,290),(180,200)} {(180,200),(210,110)}</EdgeVector>
                }
                <LabellList>
                  {
                    </ValueList>
                  }
                </Object>
              }
            }
            <AtomicObject>{bench(180,170)}</AtomicObject>
            <AtomicObject>{bench(390,170)}</AtomicObject>
            <ObjectSet>
              <SnapPoint>
                <SnapPoint>
                  <Lines>
                    <Line sourceX="390" sourceY="120" targetX="390" targetY="210" dir="none" style="solid"/>
                    <Line sourceX="390" sourceY="120" targetX="180" targetY="120" dir="none" style="solid"/>
                    <Line sourceX="390" sourceY="210" targetX="300" targetY="300" dir="none" style="solid"/>
                    <Line sourceX="180" sourceY="120" targetX="180" targetY="210" dir="none" style="solid"/>
                    <Line sourceX="180" sourceY="210" targetX="210" targetY="300" dir="none" style="solid"/>
                  </Lines>
                }
              }
            }
          }
        }
      }
    }
  }
</Response>
</Item>
<Item position="7" segmentId="(SBAC)SBAC-FT-SomeDescriptionS2-MATH-7-Fall-2013-2014" bankKey="200" key="22489" operational="1" isSelected="1" format="ER"
score="3" scoreStatus="SCORED" adminDate="2014-03-25T14:10:36.853" pageNumber="2" pageTime="0" pageVisits="0" numberVisits="15" mimeType="text/html" dropped="0"
strand="W" contentLevel="W|W.11-12.2a">
  <Response date="2014-03-25T15:53:17.637" >
    <p>
      For historical reasons, the word "algebra" has several related meanings in mathematics,
      as a single word or with qualifiers. Such a situation, where a single word has many meanings in the same area of mathematics, may be confusing. However the
      distinction is easier if one recalls that the name of a scientific area is usually singular and without an article and the name of a specific structure requires an
      article or the plural.
    </p>
    <p>
    </p>
    <p>
    </p>
  </Response>
  <ScoreInfo scorePoint="4" scoreDimension="overall" scoreStatus="Scored">
    <ScoreRationale>Some information here about the score</ScoreRationale>
  </ScoreInfo>
</Response>

```

```

<SubScoreList>
  <ScoreInfo scorePoint="2" scoreDimension="Conventions" scoreStatus="Scored">
    <SubScoreList />
  </ScoreInfo>
  <ScoreInfo scorePoint="1" scoreDimension="Purpose" scoreStatus="Scored">
    <ScoreRationale>Possibly some information here about this dimension score</ScoreRationale>
    <SubScoreList />
  </ScoreInfo>
  <ScoreInfo scorePoint="1" scoreDimension="Evidence" scoreStatus="Scored">
    <SubScoreList />
  </ScoreInfo>
</SubScoreList>
</ScoreInfo>
</Item>
<Item position="9" segmentId="(SBAC)SBAC-FT-SomeDescriptionS2-MATH-7-Fall-2013-2014" bankKey="200" key="4609" operational="1" isSelected="1" format="MS"
score="0" scoreStatus="SCORED" adminDate="2014-04-24T12:27:26.203" numberVisits="1" mimeType="text/plain" strand="SC-ES" contentLevel="SC-ES|4.I|1|d"
pageNumber="3" pageVisits="1" pageTime="0" dropped="0">
  <Response date="2014-04-24T12:32:46.377">A,B,C,F</Response>
  <ScoreInfo scorePoint="0" scoreDimension="overall" scoreStatus="Scored">
    <ScoreRationale>A,F</ScoreRationale>
    <SubScoreList />
  </ScoreInfo>
</Item>
<Item position="8" segmentId="(SBAC)SBAC-FT-SomeDescriptionS2-MATH-7-Fall-2013-2014" bankKey="200" key="645" operational="1" isSelected="1" format="SIM"
score="-1" scoreStatus="NOTSCORED" adminDate="2014-04-24T12:01:14.983" numberVisits="1" mimeType="text/plain" strand="SC-LS" contentLevel="SC-LS|4.V|4|b"
pageNumber="4" pageVisits="1" pageTime="0" dropped="0">
  <Response date="2014-04-24T12:09:46.940">
    &lt;responseSpec&gt;
    &lt;responseTable&gt;
    &lt;tr&gt;
    &lt;th id = "animal"&gt;animal&lt;/th&gt;
    &lt;th id = "season"&gt;season&lt;/th&gt;
    &lt;th id = "bobcat"&gt;bobcat&lt;/th&gt;
    &lt;th id = "duck"&gt;duck&lt;/th&gt;
    &lt;th id = "snake"&gt;snake&lt;/th&gt;
    &lt;th id = "hare"&gt;hare&lt;/th&gt;
    &lt;/tr&gt;
    &lt;tr&gt;
    &lt;td&gt;3&lt;/td&gt;
    &lt;td&gt;12&lt;/td&gt;
    &lt;td&gt;&lt;/td&gt;
    &lt;td&gt;&lt;/td&gt;
    &lt;td&gt;Brown%20and%20Tan%20Skin%2C%20Sunning%20on%20Rocks%2C%20Active%20at%20Night&lt;/td&gt;
    &lt;td&gt;&lt;/td&gt;
    &lt;/tr&gt;
    &lt;tr&gt;

```

```

&lt;td&gt;2&lt;/td&gt;
&lt;td&gt;11&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;td&gt;Brown%20Feathers%2C%20Fly%20North%2C%20Build%20Nests&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;/tr&gt;
&lt;tr&gt;
&lt;td&gt;4&lt;/td&gt;
&lt;td&gt;14&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;td&gt;White%20Fur%2C%20Eats%20Pine%20Needles%20and%20Bark%2C%20Runs%20in%20Snow&lt;/td&gt;
&lt;/tr&gt;
&lt;tr&gt;
&lt;td&gt;1&lt;/td&gt;
&lt;td&gt;13&lt;/td&gt;
&lt;td&gt;Yellow%20Fur%2C%20Hunts%20Prey%2C%20Eats%20Rabbits%20and%20Squirrels&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;/tr&gt;
&lt;tr&gt;
&lt;td&gt;3&lt;/td&gt;
&lt;td&gt;12&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;td&gt;Brown%20and%20Tan%20Skin%2C%20Sunning%20on%20Rocks%2C%20Active%20at%20Night&lt;/td&gt;
&lt;td&gt;&lt;/td&gt;
&lt;/tr&gt;
&lt;/responseTable&gt;

&lt;state&gt;
&lt;stateSpec element="deleteQueue" value="" /&gt;
&lt;stateSpec element="trialNumStack" value="5,4,3,2,1,0" /&gt;
&lt;stateSpec element="currentTrial" value="5" /&gt;
&lt;stateSpec element="redoingTrial" value="false" /&gt;
&lt;stateSpec element="currentState" value="Ready" /&gt;
&lt;stateSpec element="zoomFactor" value="1" /&gt;
&lt;stateSpec element="speechEnabled" value="undefined" /&gt;
&lt;stateSpec element="simulatorHeight" value="651" /&gt;
&lt;stateSpec element="simulatorWidth" value="361" /&gt;
&lt;inputSpec element="animal" value="Rattlesnake" /&gt;
&lt;inputSpec element="season" value="Summer" /&gt;
&lt;stateTableSpec id="dataTable"&gt;

```

```

    <stateTable>
    <tr>
    <td>Rattlesnake</td>
    <td>Summer</td>
    <td>Brown and Tan Skin, Sunning on Rocks, Active at Night</td>
    </tr>
    <tr>
    <td>Duck</td>
    <td>Spring</td>
    <td>Brown Feathers, Fly North, Build Nests</td>
    </tr>
    <tr>
    <td>Snowshoe Hare</td>
    <td>Winter</td>
    <td>White Fur, Eats Pine Needles and Bark, Runs in Snow</td>
    </tr>
    <tr>
    <td>Bobcat</td>
    <td>Fall</td>
    <td>Yellow Fur, Hunts Prey, Eats Rabbits and Squirrels</td>
    </tr>
    <tr>
    <td>Rattlesnake</td>
    <td>Summer</td>
    <td>Brown and Tan Skin, Sunning on Rocks, Active at Night</td>
    </tr>
    </stateTable>
    </stateTableSpec>
    </state>

    </responseSpec>
  </Response>
  <ScoreInfo />
</Item>
</Opportunity>
<Comment context="TestItem" itemPosition="1" date="2014-04-14T10:52:02.440">Walk 1&#92;2 miles&#10;BLAH BLAH</Comment>
<Comment context="GlobalNotes" itemPosition="" date="2014-04-09T13:38:31.327">Some comments about the test in general</Comment>
<ToolUsage type="Highlight" code="TDS_Highlight1">
  <ToolPage page="2" groupId="I-200-22489" count="1" />
</ToolUsage>
</TDSReport>

```

Sample XML Output #2

This is another sample that was generated by the actual test integration system.

```
<TDSReport>
  <Test name="(SBAC_PT)SBAC-MATH-4-Spring-2013-2015" subject="MATH" testId="SBAC-Mathematics-4" bankKey="1" contract="SBAC_PT" mode="online" grade="4"
handScoreProject="0" assessmentType="" academicYear="0" assessmentVersion="5566" />
  <Examinee key="5" >
    <ExamineeAttribute context = "INITIAL" name = "Birthdate" value = "01011999" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "FirstName" value = "LoadTest" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "Sex" value = "M" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "GradeLevelWhenAssessed" value = "11" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "LastOrSurname" value = "Student0000072" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "MiddleName" value = "" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "AlternateSSID" value = "10000072" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "HispanicOrLatinoEthnicity" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "AmericanIndianOrAlaskaNative" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "Asian" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "BlackOrAfricanAmerican" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "White" value = "Yes" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "NativeHawaiianOrOtherPacificIslander" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "DemographicRaceTwoOrMoreRaces" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "IDEAIndicator" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "LEPStatus" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "Section504Status" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "EconomicDisadvantageStatus" value = "No" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "INITIAL" name = "LEPExitDate" value = "" contextDate = "2015-01-09T22:13:30.631" />
    <ExamineeAttribute context = "FINAL" name = "Birthdate" value = "01011999" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "FirstName" value = "LoadTest" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "Sex" value = "M" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "GradeLevelWhenAssessed" value = "11" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "LastOrSurname" value = "Student0000072" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "MiddleName" value = "" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "AlternateSSID" value = "10000072" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "HispanicOrLatinoEthnicity" value = "No" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "AmericanIndianOrAlaskaNative" value = "No" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "Asian" value = "No" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "BlackOrAfricanAmerican" value = "No" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "White" value = "Yes" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "NativeHawaiianOrOtherPacificIslander" value = "No" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "DemographicRaceTwoOrMoreRaces" value = "No" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "IDEAIndicator" value = "No" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "LEPStatus" value = "No" contextDate = "2015-01-09T22:15:18.797" />
    <ExamineeAttribute context = "FINAL" name = "Section504Status" value = "No" contextDate = "2015-01-09T22:15:18.797" />
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</TDSReport>
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  <Segment id="(SBAC_PT)SBAC-MATH-4-Spring-2013-2015" position="1" formId="PracTest::MG4::S1::SP14" formKey="187-510" algorithm="fixedform" algorithmVersion="0" />
</>
<Accommodation type="Language" value="English" code="ENU" segment="0" />
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<Accommodation type="Non-Embedded Designated Supports" value="None" code="NEDS0" segment="0" />
<Accommodation type="Audio Playback Controls" value="Play Stop and Pause" code="TDS_APC_PSP" segment="0" />
<Accommodation type="American Sign Language" value="Do not show ASL videos" code="TDS_ASL0" segment="0" />
<Accommodation type="Color Choices" value="Black on White" code="TDS_CC0" segment="0" />
<Accommodation type="Expandable Passages" value="Expandable Passages On" code="TDS_ExpandablePassages1" segment="0" />
<Accommodation type="Font Type" value="Verdana" code="TDS_FT_Verdana" segment="0" />
<Accommodation type="Passage Font Size" value="14pt" code="TDS_F_S14" segment="0" />
<Accommodation type="Highlight" value="True" code="TDS_Highlight1" segment="0" />
<Accommodation type="Item Font Size" value="14pt Items" code="TDS_IF_S14" segment="0" />
<Accommodation type="Item Tools Menu" value="On" code="TDS_ITM1" segment="0" />
<Accommodation type="Masking" value="Masking Not Available" code="TDS_Masking0" segment="0" />
<Accommodation type="Mark for Review" value="True" code="TDS_Mfr1" segment="0" />
<Accommodation type="Permissive Mode" value="Permissive Mode Disabled" code="TDS_PM0" segment="0" />
<Accommodation type="Print on Request" value="None" code="TDS_PoD0" segment="0" />
<Accommodation type="Student Comments" value="On" code="TDS_SCNotepad" segment="0" />
<Accommodation type="Streamlined Mode" value="Off" code="TDS_SLM0" segment="0" />
<Accommodation type="Strikethrough" value="True" code="TDS_ST1" segment="0" />
<Accommodation type="System Volume Control" value="Show widget" code="TDS_SVC1" segment="0" />
<Accommodation type="Tutorial" value="True" code="TDS_T1" segment="0" />
<Accommodation type="Test Progress Indicator" value="Show indicator as a fraction and adjust to test length" code="TDS_TPI_ResponsesFix" segment="0" />
<Accommodation type="Test Shell" value="Universal Shell" code="TDS_TS_Universal" segment="0" />
<Accommodation type="TTS" value="None" code="TDS_TTS0" segment="0" />
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<Accommodation type="Word List" value="English Glossary" code="TDS_WL_Glossary" segment="0" />
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    </ScoreInfo>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:14:41.888" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
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title="5"><mstyle><mn>5</mn></mstyle></math></response> ]]> </Response>
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            TDS does not score eq </Message>
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        </ScoreInfo>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:13:48.567" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="1" pageVisits="0" pageTime="0" dropped="1" >
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          </ScoreInfo>
        </Item>
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</Item>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:14:04.446" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="9" pageVisits="0" pageTime="0" dropped="1" >
  <Response date ="2015-01-09T22:14:13.029"><![CDATA[ <response><math xmlns="http://www.w3.org/1998/Math/MathML"
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    </ScoreInfo>
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<Item position="22" segmentId="(SBAC_PT)SBAC-MATH-4-Spring-2013-2015" bankKey="1" key="2089" operational="1" isSelected="1" format="MI" score="-1"
scoreStatus="SCORINGERROR" adminDate="2015-01-09T22:14:44.873" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="22" pageVisits="0" pageTime="0" dropped="1" >
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    </ScoreInfo>
  </Item>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:14:56.357" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="26" pageVisits="0" pageTime="0" dropped="1" >
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        TDS does not score eq </Message>
      </ScoreRationale>
    </ScoreInfo>
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scoreStatus="SCORINGERROR" adminDate="2015-01-09T22:13:48.628" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="2" pageVisits="0" pageTime="0" dropped="1" >
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</Item>
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Undesignated" pageNumber="27" pageVisits="0" pageTime="0" dropped="1" >
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title="4"><mstyle><mn>4</mn></mstyle></math></response> ]]> </Response>
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        TDS does not score eq </Message>
      </ScoreRationale>
    </ScoreInfo>
  </Item>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:13:55.733" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="6" pageVisits="0" pageTime="0" dropped="1" >
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    </ScoreInfo>
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scoreStatus="SCORINGERROR" adminDate="2015-01-09T22:14:10.139" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="11" pageVisits="0" pageTime="0" dropped="1" >
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    </ScoreInfo>
  </Item>
<Item position="17" segmentId="(SBAC_PT)SBAC-MATH-4-Spring-2013-2015" bankKey="1" key="2095" operational="1" isSelected="1" format="TI" score="-1"
scoreStatus="NOTSCORED" adminDate="2015-01-09T22:14:24.614" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="17" pageVisits="0" pageTime="0" dropped="1" >
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id="col1"/></tr><tr><td></td></tr><tr><td>1</td></tr><tr><td></td></tr><tr><td>3</td></tr><tr><td></td></tr></responseTable></responseSpec>
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      <Message>
        TDS does not score ti </Message>
    </ScoreRationale>
  </Item>

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    </ScoreRationale>
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</Item>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:14:50.115" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="24" pageVisits="0" pageTime="0" dropped="1" >
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isselected="false"/><RegionObject name="b5" isselected="false"/><RegionObject name="b6" isselected="false"/></RegionGroupObject><RegionGroupObject name="groupB"
numselected="0"><RegionObject name="c1" isselected="false"/><RegionObject name="c2" isselected="false"/><RegionObject name="c3" isselected="false"/><RegionObject
name="c4" isselected="false"/></RegionGroupObject></ObjectSet><SnapPoint></SnapPoint></QuestionPart></Question></AnswerSet> ]]> </Response>
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  </ScoreInfo>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:14:52.519" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="25" pageVisits="0" pageTime="0" dropped="1" >
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281,31)}</AtomicObject><AtomicObject>{625(350,29)}</AtomicObject><AtomicObject>{601(419,31)}</AtomicObject></ObjectSet><SnapPoint>40@70,381;144,380;209,379;281,379
;350,381;419,379;202,111;202,262;300,111;302,262</SnapPoint></QuestionPart></Question></AnswerSet> ]]> </Response>
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3)}</AtomicObject><AtomicObject>{6(377,6)}</AtomicObject><AtomicObject>{7(433,164)}</AtomicObject><AtomicObject>{8(433,125)}</AtomicObject><AtomicObject>{9(433,84)
}</AtomicObject><AtomicObject>{4(378,84)}</AtomicObject><AtomicObject>{10(432,43)}</AtomicObject><AtomicObject>{11(432,4)}</AtomicObject></ObjectSet><SnapPoint>60@
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Undesignated" pageNumber="7" pageVisits="0" pageTime="0" dropped="1" >
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et> ]]> </Response>
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        TDS does not score gi </Message>
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Undesignated" pageNumber="20" pageVisits="0" pageTime="0" dropped="1" >
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    <Message>
      Item scoring config was not found. </Message>
    </ScoreRationale>
  </ScoreInfo>
</Item>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:13:48.686" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
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      <Message>
        TDS does not score eq </Message>
      </ScoreRationale>
    </ScoreInfo>
  </Item>
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Undesignated" pageNumber="4" pageVisits="0" pageTime="0" dropped="1" >
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a</value></response></itemResponse> ]]> </Response>
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    <ScoreRationale>
      <Message>
        Item scoring config was not found. </Message>
      </ScoreRationale>
    </ScoreInfo>
  </Item>
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Undesignated" pageNumber="14" pageVisits="0" pageTime="0" dropped="1" >
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        Item scoring config was not found. </Message>
      </ScoreRationale>
    </ScoreInfo>
  </Item>
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scoreStatus="SCORINGERROR" adminDate="2015-01-09T22:14:13.071" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
Undesignated" pageNumber="12" pageVisits="0" pageTime="0" dropped="1" >
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    <ScoreRationale>

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    <Message>
      Item scoring config was not found. </Message>
    </ScoreRationale>
  </ScoreInfo>
</Item>
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Undesignated" pageNumber="10" pageVisits="0" pageTime="0" dropped="1" >
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isselected="false"/><RegionObject name="Eqn3" isselected="false"/><RegionObject name="Eqn4" isselected="false"/><RegionObject name="Eqn5"
isselected="false"/><RegionObject name="Eqn6" isselected="false"/></RegionGroupObject></ObjectSet><SnapPoint></SnapPoint></QuestionPart></Question></AnswerSet> ]]>
</Response>
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        TDS does not score gi </Message>
      </ScoreRationale>
    </ScoreInfo>
  </Item>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:14:19.926" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
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        TDS does not score eq </Message>
      </ScoreRationale>
    </ScoreInfo>
  </Item>
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scoreStatus="NOTSCORED" adminDate="2015-01-09T22:14:47.988" numberVisits="1" mimeType="text/plain" clientId="" strand="MA-Undesignated" contentLevel="MA-
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et> ]]> </Response>
  <ScoreInfo scorePoint = "1" maxScore = "-1" scoreDimension = "null" scoreStatus = "NotScored" confLevel = "" >
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      <Message>
        TDS does not score gi </Message>
      </ScoreRationale>
    </ScoreInfo>
  </Item>
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isselected="false"/><RegionObject name="5book" isselected="false"/><RegionObject name="6book" isselected="false"/></RegionGroupObject><RegionGroupObject
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isselected="false"/></RegionGroupObject><RegionGroupObject name="6books" numselected="0"><RegionObject name="6book"
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isselected="false"/><RegionObject name="AFive" isselected="false"/><RegionObject name="AFiveHalf" isselected="false"/><RegionObject name="ASix"
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        TDS does not score gi </Message>
      </ScoreRationale>
    </ScoreInfo>
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