# TEST RESULTS TRANSMISSION FORMAT

**Revision History**

|  |  |  |
| --- | --- | --- |
| **Revision Description** | **Author/Modifier** | **Date** |
| * 1. : Update includes:      + Data element LanguageCode changed to require in Table 6.      + measureOf ELA Claims and target identifier formats fixed in Table 14. | Smarter Balanced | 07/22/2020 |
| 2.0: New version of the document is released. Major updates to definitions, requirements, acceptable values, and the layout of the document. | Smarter Balanced | 03/12/2020 |

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# Purpose

The purpose of this document is to provide a format specification describing the output of a Test Delivery System (TDS), which feeds into a Test Integration System (TIS), and then feeds into the Data Warehouse (DW). The interface is exactly the same for both: 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. No matter the TDS or TIS, the DW requires student test result information to be ingested in this format. In addition, the XSD and a sample XML file are available.

# Test Integration Data Flow Overview

This document describes the data interface between a Test Integration component and one or more Data Warehouses.

Test Integration receives the completed assessment from Test Delivery, delivers responses to external scoring engines, receives and collates results from external scoring engines. 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.

# Types of Data Ingests

Service Providers may provide data to the DW for a variety of reasons as per the requirements of contracts with a specific member state or territory. The Test Results Transmission (TRT) Specification is written in broad terms to allow the highest number of scenarios to be covered. However, it should be noted, that this document cannot cover every scenario given the different reporting requirements of various states.

The information in a TRT is used in several capacities including reporting scores to educators, and analytics to evaluate test efficiency. Some TDS field requirements change depending on the type of test, use of data, and requirements of the client. The transmission of PII data and/or de-identified data may change requirements as well.

Therefore, a best practice is for Service Providers and Smarter Balanced to conduct a TRT mapping exercise to assist in providing a more granular discussion for each field and acceptable values.

# Preparing for Ingest

Before starting the transmission, Smarter Balanced and the Service Provider will complete a TRT mapping exercise. Service Providers and Smarter Balanced will review the following TRT specification and discuss any acceptable values or fields that require clarification.

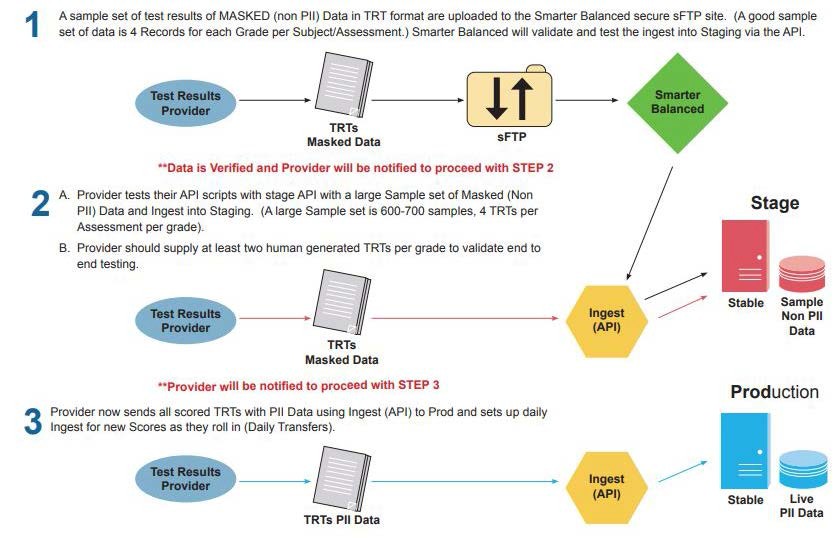
Next, the Service Provider and Smarter Balanced will review the subject configuration workbook for any non-Smarter Balanced assessments to develop the subject and test

definition files used in the Reporting Data Warehouse (RDW). TRTs for Smarter Balanced assessments will follow the naming conventions and configuration as set forth by the test package (these are noted in the TRT specification below).

# Data Transmission Process

Once the TRT mapping exercise and subject configuration workbook are complete, the standardized steps are described in [Figure 2](#_bookmark5) below for the transmission of TRTs from the Service Provider to the RDW. During each step listed below, Smarter Balanced will notify the Service Provider when the system is ready to accept TRTs and into which environment to submit them. The Service Provider will notify Smarter Balanced when they transmit and provide counts of how many TRTs were submitted upon completion for reconciliation.

Figure 1. Assessment Ingest Process



Step 1 in the graphic shows the testing of masked TRT samples. These are posted to the sFTP server for Smarter Balanced to review and validate. Smarter Balanced will test the samples and confirm the formatting is corrected based on the agreed TRT mapping.

In Step 2, the Service Provider sends the masked TRT samples (with any necessary corrections) through the API to Stage to test the API scripts. Once Smarter Balanced completes the quality check in Step 2, Smarter Balanced will inform the Service Provider when the system is ready for Step 3.

In Step 3, the final TRTs will be transmitted into the data warehouse using the API to Production. At the end of transmission, the Service Provider and Smarter Balanced will compare counts and review error reports to ensure the transmissions were successful.

# Test Integration Format Specification

## Test Integration XML Output Format

The following tables provide information regarding the XML output format and its associated XSD, such as the allowable values, sizes, and descriptions, as well as any standards alignment.

The fields in the following tables use these conventions:

* **Case sensitivity**: TDS 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**: TDS 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.

## CEDS References

The reference columns in the following tables contain footnotes to the appendix at the end of the document. The appendix contains the links to the Common Education Data Standards (CEDS) references that are used to determine appropriate standardization data.

## TDS Report: Test

[Table 2](#_bookmark10) provides the XML Output Format for the XML Hierarchy TDS Report: Test. [Table 3](#_bookmark12) provides clarification and definitions to some acceptable values.

Table 1. Test Integration XML Output Format (TDS Report: Test)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| name | Name of the test. For Smarter Balanced the name will match the Test Packages: (SBAC)- Assessment-Subject-SubjectCategory-Grade- AcademicYear. This will be submitted in the following format for non-Smarter Balanced Summative Tests: (State 2 LetterAbbrevation)- Assessment-Subject-Grade#-AcademicYear. | xsd: token | Required; Unique to the DW for each test | 250 | All test names will be reviewed and approved by Smarter Balanced prior to transmission. | CA-Math-5-Fall- 2018-2019 | [1](#_bookmark48) |
| subject | Content area of test administered. (e.g., ELA, Math) | xsd: token | Required; Unique to the DW for each test | 10 | Must match assessment package. | ELA, Math, ELPAC |  |
| testId | The Test Authoring ID of the test, independent of client, season, and year. For Smarter Balanced tests the testID originates in the Test Package. For non-Smarter Balanced assessments, the test ID should follow the following format: (State 2 Letter Abbreviation)- Assessment-Subject-Grade# | xsd: token | Required; Unique by test | 255 | All testIds will be reviewed and approved by Smarter Balanced prior to transmission. | SBAC-IAB-ELA-  BriefWrites-11 | [2](#_bookmark48) |
| bankKey | ITS bank of blueprint. For Smarter Balanced assessments, the bankKey is 200 | xsd: unsigned int | Required | 8 | Positive 32-bit integer | 200 |  |
| handScoreP roject | If this test has items that need to be scored by hand, this is the ID of the hand score project (either in own hand scoring center, or an ID to identify a subcontractor's hand scoring project). | xsd: unsigned int | Optional | 8 | Positive 32-bit integer |  |  |
| contract | The name of the Service provider's contract with the client. | xsd: token | Optional | 100 | One or more printable ASCII characters | ELPAC, CAASPP, ELPA |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| mode | The method of how a student takes the assessment. Values are defined in the Test Acceptable Values Table. | xsd: token | Required | 50 | Online Paper Scanned |  |  |
| grade | Grade the assessment is designed to be taken. | xsd: token | Required | 100 | See Test Acceptable Values ([Table 3](#_bookmark12)) |  | [3](#_bookmark48) |
| assessment Type | This field represents the assessment purpose such as Summative or Interim. | xsd: token | Required | 20 | Interim Summative  Note: Any other value needs validation prior to transmission. |  | [4](#_bookmark48) |
| academicYe ar | Academic year in which the test is given in YYYY format. | xsd: integer | Required | 4 | 1900 <= YYYY <=  9999 | A test given during academic year 2020-21 would be coded 2021. | [5](#_bookmark48) |
| assessment Version | Number identifying the version of the assessment in order to track changes made to an assessment. | xsd: token | Optional | 30 | Alphanumeric string | abcd12345 |  |

*Acceptable Values for Test Section*

Table 2. Test Section Acceptable Values and Definitions

|  |  |  |  |
| --- | --- | --- | --- |
| **XML Hierarchy** | **TDS Field Name (attribute)** | **Acceptable Value** | **Definition** |
| TDS Report: Test | mode | Online | A student took the test using a computer system. |
|  |  | Paper | The student took the test on paper and someone entered the answers into the system. |
|  |  | Scanned | Use of scantron. |
| TDS Report: Test | grade | T | Infant/toddler |

|  |  |  |  |
| --- | --- | --- | --- |
| **XML Hierarchy** | **TDS Field Name (attribute)** | **Acceptable Value** | **Definition** |
|  |  | PR | Preschool |
|  |  | PK | Prekindergarten |
|  |  | TK | Transitional Kindergarten |
| TDS Report: Test | grade (continued) | 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 |

## TDS Report: Examinee

[Table 4](#_bookmark14) provides the XML Output Format for the XML Hierarchy TDS Report: Examinee. [Table 5](#_bookmark16) provides a list XML Output Format for the XML Hierarchy TDS Report: Examinee: examineeAttributes including the four TDS fields that will be submitted for each examineeAttribute submitted in a TRT. [Table 6](#_bookmark17) provides a list of acceptable examineeAttributes names and values.  [Table 7](#_bookmark19) provides the XML Output Format for the XML Hierarchy TDS Report: Examinee: examineeRelationships.

Table 3. Test Integration XML Output Format (TDS Report: Examinee)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| key | Internal examinee key | xsd: unsigned long | optional | 16 | Positive 64-bit integer |  |  |
| isDemo | This field allows a test to be marked as a demonstration TRT. | xsd: boolean | optional | 5 | True = demo user False = real student |  |  |

*TDS Report: Examinee: examineeAttributes*

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.

In addition to required fields, any student demographic data reporting in the Smarter Reporting System must be transmitted in the ExamineeAttributes for each TRT. For example, if the state wishes to report to their users the Primary Language of the student, then the appropriate attribute must be sent in the TRT.

The following four fields in [Table 5](#_bookmark16) will be submitted for each attribute from [Table 6](#_bookmark17) transmitted in a TRT.

Table 4. Test Integration XML Output Format (TDS Report: Examinee: examineeAttribute)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| name | Name, value, context, and contextDate fields repeat for each attribute provided. See Examinee Attributes ([Table 6](#_bookmark17)) for required and optional name and values. | xsd: token | Required for each name field transmitted. See Examinee Attributes ([Table 6](#_bookmark17)) for required | See Examinee Attributes ([Table 6](#_bookmark17)) | See Examinee Attributes ([Table 6](#_bookmark17)) | Birthdate | [6-31](#_bookmark48) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
|  |  |  | and optional attributes. |  |  |  |  |
| value | An acceptable value from Examinee Attributes ([Table 6](#_bookmark17)) for attribute name submitted. | xsd: token | Required for each name field transmitted. See Examinee Attributes ([Table 6](#_bookmark17)) for required and optional attributes. | 500 | See Examinee Attributes ([Table 6](#_bookmark17))) | 09/01/2010 |  |
| *context* | Identifies when the attribute is submitted. Initial is before scoring phase has been validated. Final is transmission upon the scoring phase being finalized. | xsd: token | Required for each name field transmitted. See Examinee Attributes ([Table 6](#_bookmark17)) for required and optional attributes. | 50 | INITIAL FINAL | FINAL |  |
| *contextDate* | Date of the context field submission. | xsd: dateTime | Required for each name field transmitted. See Examinee Attributes ([Table 6](#_bookmark17)) for required and optional attributes. | 23 | date+time in ISO 8601  format | 2019-05-  08T13:26:45.748000 |  |

Table 5. examineeAttribute Table

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Business Rules** | **CEDS**  **Ref** |
| name | LastOrSurn ame | Last name of the student. | xsd: token; alphanume ric/ special | Required; De-identified data: never | 35 | One or more printable ASCII characters | FirstName and LastOrSurname are required fields, but TR can be configured to not transmit this data if the State wishes to withhold identity data | [6](#_bookmark48) |
| name | FirstName | First name of the student. | xsd: token; alphanume ric/ special | Required; De-identified data: never | 35 | One or more printable ASCII characters | FirstName and LastOrSurname are required fields, but TR can be configured to not transmit this data if the State wishes to withhold identity data | [7](#_bookmark48) |
| name | MiddleNam e | Middle name of the student. | xsd: token; alphanume ric/special | Required if available; De-identified data: never | 35 | One or more printable ASCII characters |  | [8](#_bookmark48) |
| name | Birthdate | The year, month, and day on which a person was born, in the format YYYY-MMDD (zeropadded) | xsd: string; Numeric+d ash | Required if available; De-identified data: never | 10 | 1900 <= YYYY  <= 9999  01 <= MM <=  12  01 <= DD <=  31 | Add leading zero if less than 2-digit month or day | [9](#_bookmark48) |
| name | StudentIde ntifier | State assigned student Identifier which is unique within that state. Every student should have a unique SSID within their state. | xsd: token; alphanume ric | Required; De-identified data: never | 40 | One or more printable ASCII characters |  | [10](#_bookmark48) |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Business Rules** | **CEDS**  **Ref** |
| name | AlternateS SID | 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 systems.  Components sending data to Consortium-deployed systems would use this alternate identifier rather than the student's SSID. | xsd: token; alphanume ric | Optional | 50 | One or more printable ASCII characters | Do not validate SSIDs differently across different states. |  |
| name | GradeLevel WhenAsse ssed | Student's enrolled grade. | xsd: token; alphanume ric | Required | 2 | See Examinee Acceptable Values ([Table](#_bookmark22) [9](#_bookmark22)) | Add leading zero if less than 2 digits. | [11](#_bookmark48) |
| name | Sex | Student's gender. | xsd: token; enum | Required | 6 | Male Female Nonbinary |  | [12](#_bookmark48) |
| name | HispanicOr LatinoEthni city | Hispanic Ethnic Flag | xsd: token; enum | Required | 3 | Yes No | At least one race field must be marked Yes | [13](#_bookmark48) |
| name | AmericanIn dianOrAlas kaNative | American Indian/ Alaska Native Flag | xsd: token; enum | Required | 3 | Yes No | At least one race field must be marked Yes | [14](#_bookmark48) |
| name | Asian | Asian Flag | xsd: token; enum | Required | 3 | Yes No | At least one race field must be marked Yes | [15](#_bookmark48) |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Business Rules** | **CEDS**  **Ref** |
| name | BlackOrAfri canAmeric an | African American Flag | xsd: token; enum | Required | 3 | Yes No | At least one race field must be marked Yes | [16](#_bookmark48) |
| name | White | White Flag | xsd: token; enum | Required | 3 | Yes No | At least one race field must be marked Yes | [17](#_bookmark48) |
| name | NativeHaw aiianOrOth erPacificIsl ander | Native Hawaiian or Pacific Islander Flag | xsd: token; enum | Required | 3 | Yes No | At least one race field must be marked Yes | [18](#_bookmark48) |
| name | Demograp hicRaceTw oOrMoreR aces | A person having origins in any of more than one of the racial groups. | xsd: token; enum | Required | 3 | Yes No | At least one race field must be marked Yes | [19](#_bookmark48) |
| name | Filipino | Filipino Flag - California test results include Filipino as a distinct ethnicity. | xsd: token; enum | Required | 3 | Yes No | At least one race field must be marked Yes |  |
| name | IDEAIndica tor | Student enrolled in IEP. | xsd: token; enum | Required | 3 | Yes No |  | [20](#_bookmark48) |
| name | LEPStatus | Student identified as LEP. | xsd: token; enum | Required | 3 | Yes No |  | [21](#_bookmark48) |
| name | EnglishLan guageAcqu isitionStatu s | Student identified as LEP. | xsd: token; enum | Optional | 4 | See Examinee Acceptable Values ([Table](#_bookmark22) [9](#_bookmark22)) | This field is for California Longitudinal Pupil Achievement Data System (CALPADS). It  replaces the LEPStatus field | [21](#_bookmark48) |
| name | Section504 Status | Student with 504 plan. | xsd: token; enum | Required | 22 | Yes, No Unknown/ Cannot Provide |  | [22](#_bookmark48) |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Business Rules** | **CEDS**  **Ref** |
| name | EconomicD isadvantag eStatus | An indication that the student met the State criteria for classification as having an economic disadvantage. | xsd: token; enum | Required | 3 | Yes No | This field is not CEDS compliant due to the name change from TitleITargetedAssistan ceParticipationStatus | [23](#_bookmark48) |
| name | LanguageC ode | The code for the specific language or dialect that a student uses to communicate. | xsd: token; enum | Required | 3 | see [http://ceds.ed.g](http://ceds.ed.g/) ov/language Codes.aspx |  | [24](#_bookmark48) |
| name | EnglishLan guageProfi ciencyLeve l | An indication of the progress made by a student toward English proficiency. | xsd: token; Alphanume ric | Optional | 20 | One or more printable ASCII characters.  Acceptable Values have changed to non-enum, alphanumeric entry. | This field is not CEDS compliant due to the name change from TitleIIIAccountabilityPr ogressStatus (CEDS ID 536). |  |
| name | MilitaryStat us | An indication that the student's parent or guardian is on Active Duty, in the National Guard, or in the Reserve component of the US military service. | xsd: token enum | Optional | 25 | NotMilitaryCon nected ActiveDuty NationalGuard OrReserve Unknown |  | [25](#_bookmark48) |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Business Rules** | **CEDS**  **Ref** |
| name | MigrantStat us | 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 accompany such parents or spouses or to obtain themselves temporary/ seasonal employment in agricultural or fishing work have:   1. moved from one LEA to another; 2. in a state that comprises a single LEA, moved from one administrative area to another within such LEA; or 3. ) 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. | xsd: token enum | Optional | 3 | Yes No  <blank> |  | [26](#_bookmark48) |
| name | FirstEntryD ateIntoUSS chool | The year, month and day of a person's initial enrollment into a United States school. | xsd:string; Numeric+d ash | Optional | 10 | YYYY-MM-DD  <blank> |  | [27](#_bookmark48) |
| name | LimitedEng lishProficie ncyEntryDa te | The year, month and day a student classified as limited English proficient entered the LEP program. | xsd:string; Numeric+d ash | Optional | 10 | YYYY-MM-DD  <blank> |  | [28](#_bookmark48) |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Business Rules** | **CEDS**  **Ref** |
| name | LEPExitDat e | The year, month and day a student classified as limited English proficient exited the LEP program. | xsd:string; Numeric+d ash | Optional | 10 | YYYY-MM-DD  <blank> |  | [29](#_bookmark48) |
| name | TitleIIILang uageInstru ctionProgra mType | Title III Language Instruction Program Type | xsd: token enum | Optional | 27 | See Examinee Acceptable Values ([Table](#_bookmark22) [9](#_bookmark22)) |  | [30](#_bookmark48) |
| name | PrimaryDis abilityType | The major or overriding disability condition that best describes a person's impairment. | xsd: token enum |  | 3 | See Examinee Acceptable Values ([Table](#_bookmark22)  [9](#_bookmark22)) |  | [31](#_bookmark48) |

*TDS Report: Examinee: examineeRelationships*

Examinee Relationships define the relationship of the student to the organizations (e.g. district, school).

Table 6. Test Integration XML Output Format (TDS Report: Examinee: examineeRelationship)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| entityKey | ART unique identifier for the entity referenced in the examineeRelationship "name" field. | xsd: token | Deprecated | 22 | Entity identifier + state abbreviation | 983685 |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| name | Name of the entity referenced by the entityKey. | xsd: token | Name, value, context, and contextDate fields repeat for each relationship provided. See Examinee Relationships ([Table 8](#_bookmark20)) for required and optional attributes. | 100 | See Examinee Relationships ([Table](#_bookmark20) [8](#_bookmark20)). | DistrictId | [32-36](#_bookmark48) |
| value | Value of the attribute identified by the examineeRelationship "entityKey" and "name" fields. | xsd: token | Name, value, context, and contextDate fields repeat for each relationship provided. See Examinee Relationships ([Table 8](#_bookmark20)) for required and optional attributes. | 500 | Must align with ART for the District ID/ School ID. One or more printable ASCII.  characters | 9998887776  6655 |  |
| *context* | Identifies when the attribute is submitted. Initial is before scoring phase has been validated. Final is transmission upon the scoring phase being finalized. | xsd: token | Required for each name field transmitted. See Examinee Relationships ([Table 8](#_bookmark20)) for required and optional attributes. | 50 | INITIAL FINAL | INITIAL |  |
| *contextDate* | Date of the context field submission. | xsd: dateTime | Required for each name field transmitted. See Examinee Relationships ([Table 8](#_bookmark20)) for required and optional attributes. | 23 | date+time in ISO 8601 format | 2014-09-  27T17:48:13  .917-05:00 |  |

Table 7. examineeRelationship Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** | **Data Type** | **Required** | **Acceptable Values** | **Business Rules** | **CEDS**  **Ref** |
| name | StateAbbreviation | 2-character state code as defined by CEDS and as extended in acceptable values. | xsd: token; enum | Required | One or more printable ASCII characters | Must be present in database prior to adding students to it | [32](#_bookmark48) |
| name | DistrictId | The district responsible for specific educational services and/or instruction of the student. | xsd: token; alphanumeric | Required; De-identified data: Optional | One or more printable ASCII characters | Must be present in database prior to adding students to it | [33](#_bookmark48) |
| name | DistrictName | The name of a nonperson entity (in this case a district). | xsd: token; alphanumeric | Required; De-identified data: Optional | One or more printable ASCII characters |  | [34](#_bookmark48) |
| name | SchoolId | The school responsible for specific education services and/or instruction of the student. | xsd: token; alphanumeric | Required; De-identified data: Optional | One or more printable ASCII characters | Must be present in database and associated with Attending District IRN  (ResponsibleDistric tIdentifier) | [35](#_bookmark48) |
| name | SchoolName | Institution Name | xsd: token; alphanumeric  / special | Required; De-identified data: Optional | One or more printable ASCII characters |  | [36](#_bookmark48) |
| name | StateName | Full state name | xsd: token; alpha | Required; De-identified data: Optional | One or more printable ASCII characters State Name: spaces and commas allowed. |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** | **Data Type** | **Required** | **Acceptable Values** | **Business Rules** | **CEDS**  **Ref** |
| name | StudentGroupName | Name of the student group. | xsd: token; alphanumeric | Optional | One or more printable ASCII characters |  |  |

*Acceptable Values for Examinee Sections*

Table 8. Examinee Section Acceptable Values and Definitions

|  |  |  |  |
| --- | --- | --- | --- |
| **XML Hierarchy** | **TDS Field Name (attribute)** | **Acceptable Value** | **Attribute Definition** |
| TDS Report: Examinee: examineeAttribute | name: GradeLevelWhenAssessed | T | 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 |

|  |  |  |  |
| --- | --- | --- | --- |
| **XML Hierarchy** | **TDS Field Name (attribute)** | **Acceptable Value** | **Attribute Definition** |
|  |  | 12 | Twelfth grade |
|  |  | 13 | Grade 13 |
|  |  | PS | Postsecondary |
|  |  | UG | Ungraded |
| TDS Report: Examinee: examineeAttribute | name: EnglishLanguageAcquisitionStatus | EL | English Learner |
|  |  | EO | English Only |
|  |  | IFEP | Initial Fluent English Proficient |
|  |  | FREP | Fluent Reclassified English Proficient |
|  |  | TBD | To Be Determined |
| TDS Report: Examinee: examineeAttribute | name: TitleIIILanguageInstructionProgramType | DualLanguage | Duel language |
|  |  | TwoWayImmersion | Two-way immersion |
|  |  | TransitionalBilingual | Transitional bilingual |
|  |  | DevelopmentalBilingual | Developmental bilingual |
|  |  | HeritageLangague | Heritage language |
|  |  | ShelteredEnglishInstruction | Sheltered-English instruction |
|  |  | StructuredEnglishImmersion | Structured-English immersion |
|  |  | SDAIE | Specially designed academic instruction delivered in English (SDAIE) |
|  |  | ContentBasedESL | Content based ESL |
|  |  | PullOutESL | Pull out ESL |
|  |  | Other | Other |
| TDS Report: Examinee: examineeAttribute | name: PrimaryDisabilityType | AUT | Autism |
|  |  | DB | Deaf/Blindness |
|  |  | DD | Developmental delay |

|  |  |  |  |
| --- | --- | --- | --- |
| **XML Hierarchy** | **TDS Field Name (attribute)** | **Acceptable Value** | **Attribute Definition** |
|  |  | EMN | Emotional disturbance |
|  |  | HI | Hearing impairment |
|  |  | ID | Intellectual disability |
|  |  | MD | Multiple disabilities |
|  |  | OI | Orthopedic impairment |
|  |  | OHI | Other health impairment |
|  |  | SLD | Specific learning disability |
|  |  | SLI | Speech or language impairment |
|  |  | TBI | Traumatic brain injury |
|  |  | VI | Visual impairment |
| TDS Report: Examinee: examineeRelationship | Name: StateAbbreviation | AA | Armed Forces Americas |
|  |  | AE | Armed Forces Africa, Canada, Europe, and Middle East |
|  |  | AP | Armed Forces Pacific |
|  |  | TS | Test State |
|  |  | OT | Other |
|  |  | Two-Character US State Identifiers | Defined by CEDS |

## TDS Report: Opportunity

This section defines the opportunity and condition of the administration of the assessment.

Table 9. Test Integration XML Output Format (TDS Report: Opportunity)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| server | Name of the Test Delivery System (TDS) server used to administer this test. | xsd: token | Optional | 128 | One or more printable ASCII characters. |  |  |
| database | Name of the Test Delivery System (TDS) database used to administer this test. | xsd: token | Optional | 128 | Zero or more printable ACSII characters. |  |  |
| key | A globally unique identifier for the opportunity. Required to be unique by student and opportunity. | xsd: token | Required | 36 | One or more printable ASCII characters. |  |  |
| oppId | A unique identifier (within client) of the test opportunity. Needs to be unique by student and opportunity. | xsd: unsigned Long | Required; this field must be a unique field. | 16 | Positive 64-bit integer |  |  |
| startDate | Date and time the student started the opportunity. | xsd: dateTime | Required | 23 | date+time in ISO 8601 format |  | [37](#_bookmark48) |
| status | Status of the opportunity. | xsd: token | Required | 50 | See Opportunity Acceptable Values ([Table](#_bookmark40) [23](#_bookmark40)) |  |  |
| validity | Validity of the individual test result. Valid means the student’s responses are valid whereas invalid means the student’s responses may be compromised (e.g. cheating). | xsd: token | Required | 7 | valid invalid |  |  |
| completeness | If the opportunity meets the criteria of completing a test. Note: Not all assessments require all questions to be answered to be considered complete. | xsd: token | Required | 8 | Partial Complete |  |  |
| opportunity | A counter for the number of times a student has taken this test. | xsd: unsigned Int | Required | 8 | Positive 64-bit integer |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| statusDate | 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). | xsd: dateTime | Required | 23 | date+time in ISO 8601 format |  |  |
| dateCompleted | Date the student submitted the opportunity for scoring. | xsd: dateTime | Required | 23 | date+time in ISO 8601 format |  | [38](#_bookmark48) |
| pauseCount | Number of times Examinee paused the opportunity. | xsd: unsigned Int | Required | 8 | Positive 32-bit integer |  |  |
| itemCount | Number of items in the XML file. Note: these are presented items plus prefetched items (there could be items the student never saw). | xsd: unsigned Int | Required | 8 | Positive 32-bit integer |  |  |
| ftCount | Number of field test items in count. | xsd: unsigned Int | Required | 8 | Positive 32-bit integer |  |  |
| abnormalStarts | The number of times the test was restarted after an abrupt end to a test (e.g. browser, crash, power shutdown, network loss). | xsd: unsigned Int | Required | 8 | Positive 32-bit integer |  |  |
| gracePeriodRestar ts | The number of times the student paused the test and restarted it within the grace period (20 minutes). | xsd: unsigned Int | Required | 8 | Positive 32-bit integer |  |  |
| TAID | ID of the Test Administrator that administered this test (often the TA's e-mail address). | xsd: token | Optional;  De-identified data: never | 128 | Zero or more printable ACSII characters. |  | [39](#_bookmark48) |
| TAName | Name of the Test Administrator that administered this test. | xsd: token | Optional;  De-identified data: never | 128 | Zero or more printable ACSII characters. |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| sessionId | Test Delivery System's ID for the session in which this test was taken. | xsd: token | Optional;  De-identified data: never | 128 | Zero or more printable ACSII characters. |  |  |
| windowId | The ID of the window in which the test was administered (e.g., EOC- Spring) | xsd: token | Required | 50 | One or more printable ASCII characters. |  |  |
| windowOpportunit y | A counter that counts the number of times a student has taken this test in this window. | xsd: token | Optional | 8 | Zero or more printable ACSII characters. |  |  |
| completeStatus | Deprecated field. Completeness is the required field. | xsd: token | Deprecated | 8 | Partial Complete |  |  |
| administrationCon dition | The type of administration for the opportunity. For interim assessments, the administration is considered either standard (SD) or non-standard (NS) and for summative assessments the administration is considered valid (Valid) or invalid (IN). | xsd: token | Required | 20 | Valid IN SD NS |  |  |
| dateForceComplet ed | The date and time a test is forced completed. Depending on client configuration, a force complete is when a student completes the test, but runs out of time prior to choosing to submit the responses. | xsd: dateTime | Optional | 8 | date+time in ISO 8601 format |  |  |
| clientName | Name of the client this test is administered. | xsd: token | Required | 255 | One or more printable ASCII characters. | Oregon, California |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| assessmentPartici pantSessionPlatfo rmUserAgent | 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 userAgent string returned as part of an HTTP header. | xsd: string | Online: Required | 512 | <User-Agent string> blank | 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" | [40](#_bookmark48) |
| effectiveDate | The first date of the first window for a given assessment. | xsd: string | Optional | 10 | YYYY-MM-DD,  where  2000 <= YYYY  <= 9999  01 <= MM <= 12  01 <= DD <= 31 |  |  |
| testReason | Enables more granular interim reporting by AIR360. | xsd: string | Optional | 255 |  |  |  |

*TDS Report: Opportunity: Segment*

Defines the segments of the assessment and the position of items in the segment.

Table 10. Test Integration XML Output Format (TDS Report: Opportunity: Segment)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width (chars)** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| id | Segment the item was administered on. | xsd: token | Required for Interims; Optional for Summative | 250 | One or more printable ASCII characters. |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width (chars)** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| position | Position of the segment on the test. | xsd: unsigned Int | Required for Interims; Optional for Summative | 8 | Positive 32-bit integer, null allowed |  |  |
| formKey | ITS key of the form (if algorithm=fixedform). | xsd: token | Optional for Interims; Optional for Summative | 100 | One or more printable ASCII characters. |  |  |
| formId | If the algorithm is fixedform, then this is the ID of the form for the segment. Otherwise, null. | xsd: token | Optional for Interims; Optional for Summative | 150 | One or more printable ASCII characters. |  |  |
| algorithm | Item selection algorithm that was used for this segment. | xsd: token | Optional for Interims; Optional for Summative | 50 | One or more printable ASCII characters. |  |  |
| algorithmVersion | Version of the item selection algorithm that was used for this segment. | xsd: token | Optional for Interims; Optional for Summative | 50 | One or more printable ASCII characters. |  |  |

*TDS Report: Opportunity: Accommodation*

Table 11. Test Integration XML Output Format (TDS Report: Opportunity: Accommodation)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Widt h** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| type | Accommodation or accessibility feature. | xsd: token | Required | 510 | <http://www.smarterapp.org/doc> uments/ISAAP- AccessibilityFeatureCodes.pdf  Values are updated in separate document. |  | [41](#_bookmark48) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Widt h** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| value | An acceptable accommodation value the accommodation type submitted. Note: There is a one to one relationship between value and code. | xsd: token | Required | 510 | One or more printable ASCII characters. |  | [42](#_bookmark48) |
| code | An acceptable code for the accommodation type and value. | xsd: token | Required | 510 | One or more printable ASCII characters. |  |  |
| segment | Segment number in which the accommodation applies. A 0 means the accommodation applies to the entire test (i.e. all segments) | xsd: unsigned Int | Required | 8 | Positive 32-bit integer, null allowed |  |  |

Accessibility Features and Use Codes

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.

Raw information regarding accessibility feature use is reported in the <Accommodation> elements as described in the table above ([Table 12](#_bookmark26)). 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 above. 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.

More information for Accessibility Features and Use Codes can be found [HERE](http://www.smarterapp.org/documents/ISAAP-AccessibilityFeatureCodes.pdf).

*TDS Report: Opportunity: Scores*

Table 12. Test Integration XML Output Format (TDS Report: Opportunity: Score)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width (chars)** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| measureOf | The set of items this value measures. Usually a strand of an AffinityGroup. | xsd: token | Required | 150 | One or more printable ASCII characters. | See Scores Used by Smarter Balanced Reporting System ([Table 14](#_bookmark30)) |  |
| measureLabel | Label of this measure. | xsd: token | Required | 150 | One or more printable ASCII characters. | See Scores Used by Smarter Balanced Reporting System ([Table 14](#_bookmark30)) |  |
| value | Value of the measure. | xsd: token | Required | 64 | One or more printable ASCII characters. | See Scores Used by Smarter Balanced Reporting System ([Table 14](#_bookmark30)) |  |
| standardError | The value of the standard error for the measure. | xsd: token | Required | 8 | Float, null allowed | See Scores Used by Smarter Balanced Reporting System ([Table 14](#_bookmark30)) |  |

Scores Used by Smarter Balanced Reporting System

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. [Table 14](#_bookmark30) indicates how these scores and the accommodations appear in the “Score” elements of the test result format. Target scores are also used in the "Score" elements for the test result format.

Table 13. Scores Used by Smarter Balanced Reporting System

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **measureOf** | **measureLabel** | **Value** | **standardError** | **Description** |
| Overall | ScaleScore | xsd: int | xsd: int | The overall scale score for the entire test. |
| Overall | PerformanceLevel | 1-4 | Not included | The achievement level corresponding to the scale score. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **measureOf** | **measureLabel** | **Value** | **standardError** | **Description** |
| 1 | ScaleScore | xsd: int | xsd: int | Math Claim 1 scale score |
| 1 | PerformanceLevel | 1-4 | Not included | Math Claim 1 achievement level |
| SOCK\_2 | ScaleScore | xsd: int | xsd: int | Math Claim 2, 4 scale score |
| SOCK\_2 | PerformanceLevel | 1-4 | Not included | Math Claim 2, 4 achievement level |
| 3 | ScaleScore | xsd: int | xsd: int | Math Claim 3 scale score |
| 3 | PerformanceLevel | 1-4 | Not included | Math Claim 3 achievement level |
| SOCK\_R | ScaleScore | xsd: int | xsd: int | ELA Claim 1 scale score |
| SOCK\_R | PerformanceLevel | 1-4 | Not included | ELA Claim 1 achievement level |
| 2-W | ScaleScore | xsd: int | xsd: int | ELA Claim 2 scale score |
| 2-W | PerformanceLevel | 1-4 | Not included | ELA Claim 2 achievement level |
| SOCK\_LS | ScaleScore | xsd: int | xsd: int | ELA Claim 3 scale score |
| SOCK\_LS | PerformanceLevel | 1-4 | Not included | ELA Claim 3 achievement level |
| 4-CR | ScaleScore | xsd: int | xsd: int | ELA Claim 4 scale score |
| 4-CR | PerformanceLevel | 1-4 | Not included | ELA Claim 4 achievement level |
| Target identifier format | StudentRelativeResidualScore | xsd: float | xsd: float | The summed residual between observed and overall student estimated score as defined in the referenced scoring calculation document. |
| Target identifier format | StandardMetRelativeResidualScore | xsd: float | xsd: float | The summed residual between observed and standard met score as defined in the referenced scoring calculation document. |
| Target identifier format | ItemCount | 1-n | Not included | The number of items that were presented to the student in this target |
| Target identifier format | ItemCountScored | 1-n | Not included | The number of items that were scored in this target |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **measureOf** | **measureLabel** | **Value** | **standardError** | **Description** |
| Target identifier format | RawScore | xsd: int | Not included | Raw score |
| SOCK\_ARGU\_ORG | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of argumentative with a trait of organization/purpose. |
| SOCK\_ARGU\_CON | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of argumentative with a trait of conventions. |
| SOCK\_ARGU\_EVI | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of argumentative with a trait of evidence/elaboration. |
| SOCK\_EXPL\_ORG | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of explanatory with a trait of organization/purpose. |
| SOCK\_EXPL\_CON | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of explanatory with a trait of conventions. |
| SOCK\_EXPL\_EVI | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of explanatory with a trait of evidence/elaboration. |
| SOCK\_INFO\_ORG | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of informational with a trait of organization/purpose. |
| SOCK\_INFO\_CON | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of informational with a trait of conventions. |
| SOCK\_INFO\_EVI | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of informational with a trait of evidence/elaboration. |
| SOCK\_NARR\_ORG | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of narrative with a trait of organization/purpose. |
| SOCK\_NARR\_CON | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of narrative with a trait of conventions. |
| SOCK\_NARR\_EVI | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of narrative with a trait of evidence/elaboration. |
| SOCK\_OPIN\_ORG | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of opinion with a trait of organization/purpose. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **measureOf** | **measureLabel** | **Value** | **standardError** | **Description** |
| SOCK\_OPIN\_CON | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of opinion with a trait of conventions. |
| SOCK\_OPIN\_EVI | RawScore | xsd: int | Not included | ELA Writing Extended Response score for a writing purpose of opinion with a trait of evidence/elaboration. |

*TDS Report: Opportunity: GenericVariable*

Table 14. Test Integration XML Output Format (TDS Report: Opportunity: GenericVariable)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| context | Optional field to be used for unique IDs that are not covered by other TDS fields. Typically used to combine student's opportunity of CAT and PT tests. | xsd: token | Note is optional, but if used all attributes are required. | 50 | One or more printable ASCII characters. |  |  |
| name | Identifying name for the ID. | xsd: token | General use | 50 | One or more printable ASCII characters. |  |  |
| value | Identifier value | xsd: string | General use | 255 | One or more printable ASCII characters. |  |  |

*TDS Report: Opportunity: Item*

These fields discuss the items that are in the test, how they were scored, and other pertinent information.

Table 15.Test Integration XML Output Format (TDS Report: Opportunity: Item)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| position | Ordinal position of item on test. | xsd: unsigned Int | Required: Interim; Optional: Summative | 8 | Positive 32-bit integer, null allowed |  |  |
| segmentId | Should match provided Segment category provided. | xsd: token | Required: Interim; Optional: Summative | 250 | One or more printable ASCII characters. |  |  |
| bankKey | Item Authoring bank identifying the group of the item for the assessment. Smarter Balanced provides this value for Smarter Balanced tests. | xsd: token | Required: Interim; Optional: Summative | 40 | One or more printable ASCII characters. |  | [43](#_bookmark48) |
| key | Item identifier from Item Authoring. Smarter Balanced provides this identifier for Smarter Balanced tests. Internal ITS identifier. | xsd: unsigned Long | Required: Interim; Optional: Summative | 40 | Positive 64-bit integer |  |  |
| clientId | How client identifies the item. | xsd: token | Optional: Interim; Optional: Summative | 80 | One or more printable ASCII characters. |  |  |
| operational | Identifies if the item is operational or a field test. | xsd: unsigned Int | Required: Interim; Optional: Summative | 8 | 1 if operational, 0 if field test. |  |  |
| isSelected | Whether the student submitted the response for scoring or not. | xsd: unsigned Int | Required: Interim; Optional: Summative | 8 | 0 if not submitted or 1 if submitted. |  |  |
| format | The item type. | xsd: token | Required: Interim; Optional: Summative | 50 | See Opportunity Acceptable Values ([Table 23](#_bookmark40)) |  | [44](#_bookmark48) |
| score | Number of scorepoints earned by Examinee. | xsd: float | Required: Interim; Optional: Summative | 8 | Unsigned float, -1 means not scored. |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| scoreStatus | Provided by independent item scoring engine. | xsd: token | Optional: Interim; Optional: Summative | 50 | NOTSCORED SCORED SCORINGERROR WAITINGFORMACH INESCORE |  |  |
| adminDate | Date and time item was administered to Examinee. | xsd: dateTime | Required: Interim; Optional: Summative | 23 | date+time in ISO 8601 format |  |  |
| numberVisits | Number of times the student modifies his response to the item. | xsd:unsigned Int | Required: Interim; Optional: Summative | 8 | Positive 32-bit integer, null allowed |  |  |
| responseDur ation | Total time student spent responding to an assessment item. For multiple items on a page, this value may be divided evenly among the items. | xsd: float | Required: Interim; Optional: Summative | 8 | Timespent in seconds. Decimals may express fractions of seconds. |  |  |
| mimeType | MIME type of item response. | xsd: token | Required: Interim; Optional: Summative | 255 | One or more printable ASCII characters. |  |  |
| strand | Top level strand in the strand hierarchy the item is on. | xsd: token | Optional: Interim; Optional: Summative | 150 | One or more printable ASCII characters. |  |  |
| contentLevel | Lowest level strand in the strand hierarchy the item is a part of. | xsd: token | Optional: Interim; Optional: Summative | 150 | One or more printable ASCII characters. |  |  |
| pageNumber | Number of the (online) page the item appears on. | xsd:unsigned Int | Required: Interim; Optional: Summative | 8 | Positive 32-bit integer |  |  |
| pageVisits | Number of times the student visited the (online) page this item is on. | xsd: unsigned Int | Required: Interim; Optional: Summative | 8 | Positive 32-bit integer |  |  |
| pageTime | Time (in milliseconds) the student spent on the (online) page this item is on. | xsd: int | Required: Interim; Optional: Summative | 8 | Signed 32-bit integer |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| dropped | 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. | xsd: unsigned Int | Required: Interim; Optional: Summative | 8 | 0 is not dropped. 1 item is dropped. |  |  |

TDS Report: Opportunity: Item: Response

Table 16. Test Integration XML Output Format (TDS Report: Opportunity: Item: Response)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| type | Type of responseValue. '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. | xsd: token | Optional unless Paper Pencil then Required | 10 | value reference |  |  |
| <node text> | If responseType is 'value' then the actual response. Note that both MC and CR responses are captured here. If responseType is 'reference' then the filename where the scanned response is saved. | xsd: string | Online: Required | unlimited |  |  | [45](#_bookmark48) |
| key | Each response will receive a unique identifier key, which will serve as a more accurate way to match it with an excepted score. | xsd: string | Optional | 255 |  |  |  |
| date | Date and time the student responded to the item. | xsd: dateTime | Required | 23 | date+time in ISO 8601 format |  | [46](#_bookmark48) |

TDS Report: Opportunity: Item: ScoreInfo

Table 17. Test Integration XML Output Format (TDS Report: Opportunity: Item: ScoreInfo)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CED**  **S Ref** |
| scorePoint | Output of the machine scorer giving reasons for the assigned score. Contains dimension scores for certain items. | xsd: float | ScoreInfo element required for Item Types EQ, SA, and WER. Preferred for GI and TI. Optional for all other Item Types. | 8 | float, -1 allowed |  |  |
| maxScore | Maximum score point. | xsd: float | If included ScoreInfo element is sent, this attribute is required. | 8 | float, -1 allowed |  |  |
| scoreDimensi on | Identifies score dimension property. | xsd: token | If included ScoreInfo element is sent, this attribute is required. | 255 | One or more printable ASCII characters. |  |  |
| scoreStatus | Provided by independent item scoring engine. | xsd: token | If included ScoreInfo element is sent, this attribute is required. | 22 | NotScored Scored ScoringError  WaitingForMachineScore |  |  |
| conditionCode | For hand-scored items and machine-scored NL items. | xsd: token | Optional | 1 | A-Z |  |  |
| sequence | For computer adaptive assessments, the order in which items were presented to the student. | xsd: string | Optional | 255 |  |  |  |

TDS Report: Opportunity: Item: ScoreInfo: ScoreRationale

Table 18. Test Integration XML Output Format (TDS Report: Opportunity: Item: ScoreInfo: ScoreRationale)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
|  | For Short Answer and Writing Extended Response items, this element is used to record the scorer’s response from a hand scoring system. | xsd: string | Optional | unlimited |  |  |  |

TDS Report: Opportunity: Item: ScoreInfo: Message

Table 19. Test Integration XML Output Format (TDS Report: Opportunity: Item: ScoreInfo: Message)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width (chars)** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
|  | Contains hard-scoring information in JSON format, along with a scorer ID. | xsd: string | Optional | unlimited | JSON formatted string |  |  |

TDS Report: Opportunity: Item: ScoreInfo: SubScoreList

Table 20. Test Integration XML Output Format (TDS Report: Opportunity: Item: ScoreInfo: SubScoreList)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
|  | SubscoreList has no attrs, but can have nested ScoreInfo nodes for multi-dimensional items. | xsd: string | Optional | N/A | Nested  <ScoreInfo> elements |  |  |

*TDS Report: Opportunity: Score*

Table 21. Test Integration XML Output Format (TDS Report: Opportunity: Score)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| value | The score (or condition code if type isn't final). | xsd: token | Required | 10 | One or more printable ASCII characters |  |  |
| compName | Name of the component. |  | Required | 50 | Dimension: if the score is a dimension score. ScorePoints: if there are no dimensions and it is the score for the whole item.  ConditionCodes: if the score value is actional a condition code (typically |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
|  |  |  |  |  | apply to all dimensions). |  |  |
| dimension | Identifies score dimension property. |  | Required | 50 | One or more printable ASCII characters |  |  |
| sequence | Used to count backreads. 1 for all other types. |  | Required | 8 | One or more printable ASCII characters |  |  |
| conditionCode | Blank if this record is for a regular score, otherwise list the condition code. Only used for final scores. |  | Required | 10 | Positive 32-bit integer |  |  |
| type | Type of the score. |  | Required | 50 | One or more printable ASCII characters |  |  |
| userId | ID of the scorer. |  | Required | 50 | Initial Reliability Resolution Backread Final |  |  |
| userLastName | Last name of the scorer. |  | Optional | 50 | One or more printable ASCII characters |  |  |
| userFirstName | First name of the scorer. |  | Optional | 50 | One or more printable ASCII characters |  |  |

*Acceptable Values for Opportunity Section*

Table 22. Opportunity Section Acceptable Values and Definitions

|  |  |  |  |
| --- | --- | --- | --- |
| **XML Hierarchy** | **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** |
| TDS Report: Opportunity | status | appeal | Test opportunity within a Test Delivery System has been flagged for appeal. |
|  |  | completed (deprecated) | Deprecated. |
|  |  | expired | Test opportunity within a Test Delivery System has expired |
|  |  | handscoring | Test opportunity within a Test Delivery System is in the process of being hand scored. |
|  |  | invalidated (depreciated) | Deprecated. |
|  |  | paused | Test opportunity within a Test Delivery System has been paused. |
|  |  | reported | Test opportunity within a Test Delivery System has been reported as a TRT |
|  |  | reset | Test opportunity within a Test Delivery System has been reset |
|  |  | scored | Test opportunity within a Test Delivery System has been scored. |
|  |  | submitted | Test opportunity within a Test Delivery System has been submitted. This status occurs before the test is scored. |
| TDS Report: Opportunity: Item | format | EBSR | Evidence-based selected response |
|  |  | EQ | Equation |
|  |  | ER | Extended Response |
|  |  | GI | Grid Item |
|  |  | HTQ | Hot Text Questions |
|  |  | MC | Multiple Choice |
|  |  | MI | Match Interaction |
|  |  | MS | Multi-Select |

|  |  |  |  |
| --- | --- | --- | --- |
| **XML Hierarchy** | **TDS Field Name (attribute)** | **Attribute (Value)** | **Attribute Definition** |
|  |  | SA | Short Answer |
|  |  | TI | Table Interaction |
|  |  | TUT | Tutorial Item Type |
|  |  | WER | Writing Extended Response |
|  |  | WORDLIST | Item containing glossary entries |
|  |  | Stimulus | Item type used for stimulus passages |

## TDS Report: Comment

Table 23. Test Integration XML Output Format (TDS Report: Comment)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| context | Context of the comment (e.g. TESTITEM or GlobalNotes). | xsd: token | Comment element is optional; if included, this attribute is required. | 200 | One or more printable ASCII characters |  |  |
| itemPosition | If this was an item level comment (context = TESTITEM), the position of the item the comment refers to. | xsd: unsigned Int | Comment element is optional; if included, this attribute is required. | 8 | Positive 32-bit integer, null allowed |  |  |
| date | Date and time the comment was entered. | xsd: dateTime | Comment element is optional; if included, this attribute is required. | 23 | date+time in ISO 8601 format |  |  |
| <node text> | Comment verbiage. | xsd: string | Comment element is optional; if included, this attribute is required. | unlimited |  |  |  |

## TDS Report: toolUsage

Table 24. Test Integration XML Output Format (TDS Report: toolUsage)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| toolType | Tools used on certain items or item groups (passages). Type of the tool. | xsd: token | toolUsage element is optional; if included, this attribute is required. | 100 | One or more printable ASCII characters | TTS  (TextToSpeech) |  |
| toolCode | Code for the tool. | xsd: token | toolUsage element is optional; if included, this attribute is required. | 100 | One or more printable ASCII characters |  |  |

*TDS Report: toolUsage: toolPage*

Table 25. Test Integration XML Output Format (TDS Report: toolUsage: toolPage)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDS Field Name (attribute)** | **Data Element Description** | **Data Type** | **Required** | **Width** | **Acceptable Values** | **Examples** | **CEDS**  **Ref** |
| page | Online page the tool was used on. | xsd: unsigned Int | toolPage element is optional; if included, this attribute is required. | 8 | Positive 32-bit integer |  |  |
| groupId | Item or Passage ID. | xsd: token | toolPage element is optional; if included, this attribute is required. | 59 | One or more printable ASCII characters |  |  |
| count | Number of times the tool was used. | xsd: unsigned Int | toolPage element is optional; if included, this attribute is required. | 8 | Positive 32-bit integer |  |  |

# Appendixes

## References

*External References*

Table 26. External References

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Reference** | **Link** | **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 | Located in Vendor packet | Smarter Balanced |  |
| 3 | Smarter Balanced Reporting System User Guide | https://portal.smarterbalanced.org/l ibrary/en/reporting-system-user- guide.pdf | Smarter Balanced |  |
| 4 | Sample XML Outputs TRT On Boarding Pack | Located in Vendor packet | Smarter Balanced | 1.0 |
| 5 | Test Integration Format XSD (Schema) | Located in Vendor packet | Smarter Balanced | 3.0 |

*CEDS Reference Table*

All CEDS references can be found on the website linked in [Table 27](#_bookmark47).

For convivence, the table below provides the reference number used in the format specification tables, the appropriate TDS Feidl Name, any affected attributes, the CEDS Element ID, the webpage for the ID, and the CEDS Domain Entity Schema location for the element.

Table 27. CEDS References

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **CEDS**  **Ref No.** | **XML Hierarchy** | **TDS Field Name (attribute)** | **Attribute (Value)** | **CEDS**  **Element ID** |  | **Webpage** |  | **CEDS Domain Entity Schema** |
| 1 | TDS Report: Test | name |  | [CEDS Element](https://ceds.ed.gov/element/000977) [ID 000977](https://ceds.ed.gov/element/000977) |  | https://ceds.ed.gov/element  /000977 |  | K12 -> Assessments -> Assessment Administration -> AssessmentAdministrationName |
|  |  |  |  |  |  |  |  |  |
| 2 | TDS Report: Test | testId |  | [CEDS Element](https://ceds.ed.gov/element/001067) [ID 1067](https://ceds.ed.gov/element/001067) |  | https://ceds.ed.gov/element/ 001067 |  | K12 -> Assessments -> Assessment  -> AssessmentIdentifier |
| 3 | TDS Report: Test | grade |  | [CEDS Element](https://ceds.ed.gov/element/000177) [ID 177](https://ceds.ed.gov/element/000177) |  | https://ceds.ed.gov/element/ 000177 |  | K12 -> Assessments -> Assessment  ->  AssessmentLevelForWhichDesigned |
| 4 | TDS Report: Test | assessment Type |  | [CEDS Element](https://ceds.ed.gov/element/000029) [ID 29](https://ceds.ed.gov/element/000029) |  | https://ceds.ed.gov/element/ 000029 |  | K12 -> Assessments -> Assessment  -> AssessmentType |
| 5 | TDS Report: Test | academicYe ar |  | [CEDS Element](https://ceds.ed.gov/element/000243) [ID 243](https://ceds.ed.gov/element/000243) |  | https://ceds.ed.gov/element/ 000243 |  | K12 -> K12 School -> Session -> SchoolYear |
| 6 | TDS Report: Examinee: examineeAttribute | name | LastOrSurname | [CEDS Element](https://ceds.ed.gov/element/000172) [ID 172](https://ceds.ed.gov/element/000172) |  | https://ceds.ed.gov/element/ 000172 |  | K12->K12 Student- >Identity->Name |
| 7 | TDS Report: Examinee: examineeAttribute | name | FirstName | [CEDS Element](https://ceds.ed.gov/element/000115) [ID 115](https://ceds.ed.gov/element/000115) |  | https://ceds.ed.gov/element/ 000115 |  | K12->K12 Student->Identity->Name |
| 8 | TDS Report: Examinee: examineeAttribute | name | MiddleName | [CEDS Element](https://ceds.ed.gov/element/000184) [ID 184](https://ceds.ed.gov/element/000184) |  | https://ceds.ed.gov/element/ 000184 |  | K12->K12 Student->Identity->Name |
| 9 | TDS Report: Examinee: examineeAttribute | name | Birthdate | [CEDS ID](https://ceds.ed.gov/element/000033)  [Element 33](https://ceds.ed.gov/element/000033) |  | https://ceds.ed.gov/element/ 000033 |  | K12->K12 Student- >Demographic |
| 10 | TDS Report: Examinee: examineeAttribute | name | StudentIdentifier | [CEDS Element](https://ceds.ed.gov/element/001071)  [ID 1071](https://ceds.ed.gov/element/001071) |  | https://ceds.ed.gov/element/ 001071 |  | K12->K12 Student- >Identity-  >Identification |
| 11 | TDS Report: Examinee: examineeAttribute | name | GradeLevelWhe nAssessed | [CEDS Element](https://ceds.ed.gov/element/000126)  [ID 126](https://ceds.ed.gov/element/000126) |  | https://ceds.ed.gov/element/ 000126 |  | K12 -> Assessments - > Assessment Registration |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CEDS**  **Ref No.** | **XML Hierarchy** | **TDS Field Name (attribute)** | **Attribute (Value)** | **CEDS**  **Element ID** | **Webpage** | **CEDS Domain Entity Schema** |
| 12 | TDS Report: Examinee: examineeAttribute | name | Sex | [CEDS Element](https://ceds.ed.gov/element/000255) [ID 255](https://ceds.ed.gov/element/000255) | https://ceds.ed.gov/element/ 000255 | K12->K12 Student- >Demographic |
| 13 | TDS Report: Examinee: examineeAttribute | name | HispanicOrLatin oEthnicity | [CEDS Element](https://ceds.ed.gov/element/000144)  [ID 144](https://ceds.ed.gov/element/000144) | https://ceds.ed.gov/element/ 000144 | K12->K12 Student- >Demographic |
| 14 | TDS Report: Examinee: examineeAttribute | name | AmericanIndian OrAlaskaNative | [CEDS Element](https://ceds.ed.gov/element/000016)  [ID 16](https://ceds.ed.gov/element/000016) | https://ceds.ed.gov/element/ 000016 | K12->K12 Student- >Demographic |
| 15 | TDS Report: Examinee: examineeAttribute | name | Asian | [CEDS Element](https://ceds.ed.gov/element/000020) [ID 20](https://ceds.ed.gov/element/000020) | https://ceds.ed.gov/element/ 000020 | K12->K12 Student- >Demographic |
| 16 | TDS Report: Examinee: examineeAttribute | name | BlackOrAfricanA merican | [CEDS Element](https://ceds.ed.gov/element/000034) [ID 34](https://ceds.ed.gov/element/000034) | https://ceds.ed.gov/element/ 000034 | K12->K12 Student- >Demographic |
| 17 | TDS Report: Examinee: examineeAttribute | name | White | [CEDS Element](https://ceds.ed.gov/element/000301) [ID 301](https://ceds.ed.gov/element/000301) | https://ceds.ed.gov/element/ 000301 | K12->K12 Student- >Demographic |
| 18 | TDS Report: Examinee: examineeAttribute | name | NativeHawaiian OrOtherPacificIs lander | [CEDS Element](https://ceds.ed.gov/element/000192) [ID 192](https://ceds.ed.gov/element/000192) | https://ceds.ed.gov/element/ 000192 | K12->K12 Student- >Demographic |
| 19 | TDS Report: Examinee: examineeAttribute | name | DemographicRa ceTwoOrMoreR aces | [CEDS Element](https://ceds.ed.gov/element/000973) [ID 973](https://ceds.ed.gov/element/000973) | https://ceds.ed.gov/element/ 000973 | K12 -> K12 Student -> Demographic |
| 20 | TDS Report: Examinee: examineeAttribute | name | IDEAIndicator | [CEDS Element](https://ceds.ed.gov/element/000151) [ID 151](https://ceds.ed.gov/element/000151) | https://ceds.ed.gov/element/ 000151 | K12->K12 Student- >Disability |
| 21 | TDS Report: Examinee: examineeAttribute | name | LEPStatus EnglishLanguag eAcquisitionStat us | [CEDS Element](https://ceds.ed.gov/element/000180)  [ID 180](https://ceds.ed.gov/element/000180) | https://ceds.ed.gov/element/ 000180 | K12 -> K12 Student -> Limited English Proficiency |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CEDS**  **Ref No.** | **XML Hierarchy** | **TDS Field Name (attribute)** | **Attribute (Value)** | **CEDS**  **Element ID** | **Webpage** | **CEDS Domain Entity Schema** |
| 22 | TDS Report: Examinee: examineeAttribute | name | Section504Statu s | [CEDS Element](https://ceds.ed.gov/element/000249) [ID 249](https://ceds.ed.gov/element/000249) | https://ceds.ed.gov/element/ 000249 | K12 -> K12 Student -> Disability |
| 23 | TDS Report: Examinee: examineeAttribute | name | EconomicDisad vantageStatus | [CEDS Element](https://ceds.ed.gov/element/000086) [ID 86](https://ceds.ed.gov/element/000086) | https://ceds.ed.gov/element/ 000086 | K12 -> K12 Student -> Economically Disadvantaged -> EconomicDisadvantageStatus |
| 24 | TDS Report: Examinee: examineeAttribute | name | LanguageCode | [CEDS Element](https://ceds.ed.gov/element/000317)  [ID 317](https://ceds.ed.gov/element/000317) | https://ceds.ed.gov/element/ 000317 | K12 -> K12 Student -> Language and CEDS Language Codes |
| 25 | TDS Report: Examinee: examineeAttribute | name | MilitaryStatus | [CEDS Element](https://ceds.ed.gov/element/001576) [ID 1576](https://ceds.ed.gov/element/001576) | https://ceds.ed.gov/element/ 001576 | K12 -> K12 Student -> Demographic |
| 26 | TDS Report: Examinee: examineeAttribute | name | MigrantStatus | [CEDS Element](https://ceds.ed.gov/element/000189)  [ID 189](https://ceds.ed.gov/element/000189) | https://ceds.ed.gov/element/ 000189 | K12 -> K12 Student -> Migrant -> MigrantStatus |
| 27 | TDS Report: Examinee: examineeAttribute | name | FirstEntryDateIn toUSSchool | [CEDS Element](https://ceds.ed.gov/element/000529)  [ID 529](https://ceds.ed.gov/element/000529) | https://ceds.ed.gov/element/ 000529 | K12 -> K12 Student -> Immigrant |
| 28 | TDS Report: Examinee: examineeAttribute | name | LimitedEnglishP roficiencyEntryD ate | [CEDS Element](https://ceds.ed.gov/element/001247)  [ID 1247](https://ceds.ed.gov/element/001247) | https://ceds.ed.gov/element/ 001247 | K12 -> K12 Student -> Limited English Proficiency |
| 29 | TDS Report: Examinee: examineeAttribute | name | LEPExitDate | [CEDS Element](https://ceds.ed.gov/element/000570)  [ID 570](https://ceds.ed.gov/element/000570) | https://ceds.ed.gov/element/ 000570 | K12 -> K12 Student -> Limited English Proficiency |
| 30 | TDS Report: Examinee: examineeAttribute | name | TitleIIILanguage InstructionProgr amType | [CEDS Element](https://ceds.ed.gov/element/000447)  [ID 447](https://ceds.ed.gov/element/000447) | https://ceds.ed.gov/element/ 000447 | K12 -> K12 School -> Institution Characteristics |
| 31 | TDS Report: Examinee: examineeAttribute | name | PrimaryDisabilit yType | [CEDS Element](https://ceds.ed.gov/element/000218) [ID 218](https://ceds.ed.gov/element/000218) | https://ceds.ed.gov/element/ 000218 | K12 -> K12 Student -> Disability |
| 32 | TDS Report: Examinee: | name | StateAbbreviatio n | [CEDS Element](https://ceds.ed.gov/element/000267) [ID 267](https://ceds.ed.gov/element/000267) | https://ceds.ed.gov/element/ 000267 | K12 -> SEA -> Address USPS |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CEDS**  **Ref No.** | **XML Hierarchy** | **TDS Field Name (attribute)** | **Attribute (Value)** | **CEDS**  **Element ID** | **Webpage** | **CEDS Domain Entity Schema** |
|  | examineeRelations hip |  |  |  |  |  |
| 33 | TDS Report: Examinee: examineeRelations hip | name | DistrictId | [CEDS Element](https://ceds.ed.gov/element/000637)  [ID 637](https://ceds.ed.gov/element/000637) | https://ceds.ed.gov/element/ 000637 | K12 -> K12 Student -> Enrollment |
| 34 | TDS Report: Examinee: examineeRelations hip | name | DistrictName | [CEDS Element](https://ceds.ed.gov/element/000204)  [ID 204](https://ceds.ed.gov/element/000204) | https://ceds.ed.gov/element/ 000204 | K12 -> Identification -> Organization Identifier |
| 35 | TDS Report: Examinee: examineeRelations hip | name | SchoolId | [CEDS Element](https://ceds.ed.gov/element/001069)  [ID 1069](https://ceds.ed.gov/element/001069) | https://ceds.ed.gov/element/ 001069 | K12->K12 Student- >Enrollment |
| 36 | TDS Report: Examinee: examineeRelations hip | name | SchoolName | [CEDS Element](https://ceds.ed.gov/element/000191) [ID 191](https://ceds.ed.gov/element/000191) | https://ceds.ed.gov/element/ 000191 | K12 -> K12 School -> Identification |
| 37 | TDS Report: Opportunity | startDate |  | [CEDS Element](https://ceds.ed.gov/element/000962)  [ID 962](https://ceds.ed.gov/element/000962)  [CEDS Element](https://ceds.ed.gov/element/000963) [ID 963](https://ceds.ed.gov/element/000963) | https://ceds.ed.gov/element/ 000962  https://ceds.ed.gov/element/ 000963 | K12 -> Assessments -> Assessment Administration ID |
| 38 | TDS Report: Opportunity | dateComplet ed |  | [CEDS Element](https://ceds.ed.gov/element/000964)  [ID 964](https://ceds.ed.gov/element/000964)  [CEDS Element](https://ceds.ed.gov/element/000965)  [ID 965](https://ceds.ed.gov/element/000965) | https://ceds.ed.gov/element/ 000964  https://ceds.ed.gov/element/ 000965 | K12 -> Assessments -> Assessment Administration |
| 39 | TDS Report: Opportunity | TAID |  | [CEDS Element](https://ceds.ed.gov/element/000088) [ID 88](https://ceds.ed.gov/element/000088) | https://ceds.ed.gov/element/ 000088 | K12 -> K12 Staff ->  Contact -> Email |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 40 | TDS Report: Opportunity | assessment ParticipantS essionPlatfo rmUserAgen t |  | [CEDS Element](https://ceds.ed.gov/element/001152)  [ID 1152](https://ceds.ed.gov/element/001152) |  | https://ceds.ed.gov/element  /001152 |  | K12 -> Assessments -> Assessment Participant Session -> AssessmentParticipantSessionPlatfo rmUserAgent |
| 41 | TDS Report: Opportunity: Accommodation | type |  | [CEDS Element](https://ceds.ed.gov/element/000385)  [ID 385](https://ceds.ed.gov/element/000385) |  | https://ceds.ed.gov/element/ 000385 |  | K12 -> Assessments -> Assessment Participant Session |
| 42 | TDS Report: Opportunity: Accommodation | value |  | [CEDS Element](https://ceds.ed.gov/element/000724)  [ID 724](https://ceds.ed.gov/element/000724) |  | https://ceds.ed.gov/element/ 000724 |  | K12 -> Assessments -> Assessment Item -> Assessment Item Response |
| 43 | TDS Report: Opportunity: Item | bankKey |  | [CEDS Element](https://ceds.ed.gov/element/001181) [ID 1181](https://ceds.ed.gov/element/001181) |  | https://ceds.ed.gov/element/ 001181 |  | K12 -> Assessments -> Assessment Item |
| 44 | TDS Report: Opportunity: Item | format |  | [CEDS Element](https://ceds.ed.gov/element/001158)  [ID 1158](https://ceds.ed.gov/element/001158) |  | https://ceds.ed.gov/element/ 001158 |  | K12 -> Assessments -> Assessment Item -> Assessment Item APIP Interaction |
| 45 | TDS Report: Opportunity: Item: Response | <node text> |  | [CEDS Element](https://ceds.ed.gov/element/000724)  [ID 724](https://ceds.ed.gov/element/000724) |  | https://ceds.ed.gov/element/ 000724 |  | K12 -> Assessments -> Assessment Item -> Assessment Item Response |
| 46 | TDS Report: Opportunity: Item: Response | date |  | [CEDS Element](https://ceds.ed.gov/element/000958) [ID 958](https://ceds.ed.gov/element/000958)  [CEDS Element](https://ceds.ed.gov/element/000959) [ID 959](https://ceds.ed.gov/element/000959) |  | https://ceds.ed.gov/element/ 000958  https://ceds.ed.gov/element/ 000959 |  | K12 -> Assessments -> Assessment Item -> Assessment Item Response |

## Prior Revision History for Version 1

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| **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 |
| 0.5: Updated based on Smarter feedback. Several comments updated, added to better describe allowable values; added effectiveDate attribute. 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 |
| 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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| **Revision Description** | **Author/Modifier** | **Date** |
| 1.6 Added two new format properties: “completeStatus” and “administrationCondition” | Alex Dean | 02 November  2015 |
| 1.7 Updated several fields from required to optional and added three new fields. Updated the sample XSD file. | Alex Dean | 20 July 2016 |
| 1.8 Indicated that Smarter Balanced does not use the Formative assessment type | Alex Dean | 10 February  2017 |
| 1.9 Added “responseDuration” Item field. Updated sample XSD and XML. | Alex Dean | 7 March 2017 |
| * 1. Adjusted the following:      + Opportunity:Segment:algorithm and Opportunity:Segment:algorthmVersion are optional      + Opportunity:Item:Response:type is optional with a default value      + Opportunity:responseDuration changed to float      + Opportunity:validity added "blank" as an acceptable value      + Opportunity:administrationCondition enum values match the data model      + Opportunity:completeness and Opportunity:completeStatus are optional. Enum values match data model. Added footnote for both fields that explain completeStatus is preferred over completeness.      + Opportunity:effectionDate is optional      + ExamineeAttribute:AlternateSSID is optional      + Opportunity:assessmentParticipantSessionPlatformUserAgent added "blank" as an acceptable value | Alex Dean | 13 April 2017 |
| * 1. Adjusted the following:      + Scores used by Smarter Balanced Assessments table – align with the Test Results Data Dictionary      + Added optional Filipino ethnicity field | Alex Dean | 09 May 2017 |
| 1.12 Added EnglishLanguageAcquisitionStatus field | Alex Dean | 26 July 2018 |
| 1.13 Added MilitaryStatus field | Alex Dean | 7 August 2018 |
| * 1. Adjusted the following:      + Added target level scores to the "Scores Used by Smarter Balanced Assessments" table      + Added "Other" as a Sex choice | Alex Dean | 28 November  2018 |

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| **Revision Description** | **Author/Modifier** | **Date** |
| * 1. Adjusted the following:      + Opportunity: status – deprecated the expired status      + Opportunity: completeness – added expired | Alex Dean | 21 May 2019 |