**SMARTERAPP SPECIFICATION**

**for**

**ENHANCED TEST ADMINISTSRATION PACKAGE FORMAT**

Authored by

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Updated

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**Revision History**

|  |  |  |  |
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# Purpose

The purpose of this document is to provide a format specification describing the Test Administration Package for the Test Delivery System (TDS). This package defines the test and is used to load the test into TDS and the Test Integration System (TIS).

# Package Usage

Test Delivery System

**In order to load the test into TDS, the contents of the XML file are passed to the *loader\_main* stored procedure in the *itembank* database on the TDS MySQL server.**

**Test Integration System**

**The *tp.spLoader\_Main* stored procedure located in the *OSS\_Itembank* database on the TIS SQL Server instance is used to load this test into TIS in order to allow scoring of the test.**

**Test Package Data Format Conventions**

Table 1 provides information regarding the XML test package format, such as the allowable values, sizes, and descriptions, as well as any standards alignment. Also included in this document are a sample XML test package. The fields in Table 1 below follow these conventions:

* **Case sensitivity**: Field names are case sensitive and follow the guideline that the XML *Node/Element* are in upper camel case and the node *attributes* are in lower camel case.
* **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.
* **Data Widths**: By default, this field is defined by the default width of the field’s data type. A missing Data Width field is simply treated as the default width of the field’s data type.

# Enhanced Administration Test Package Format Specification – Table 1

| **Category / Node (XML Element)** | **Field Name (attribute)** | **XML Hierarchy** | **Width (chars)** | **Required** | **Data Element Description** | **Accepable Values** | **Data Type** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| TestPackage |  | TestPackage |  | Always | The root element of the test package. The <TestPackage> element contains an optional <Scoring> element (for test packages that contain COMBINED scoring data, such as ICA assessments) |  |  |
|  | academicYear |  | 25 | Always | The academic year of the test package | Either a single year, or range of years | token |
|  | bankKey |  |  | Always | The bank key of the items, forms, stimuli, and other test package metadata |  | integer |
|  | publishDate |  |  | Always | The date this package was published. Example: 2015-08-19T22:44:00Z | Sample format: 2015-08-19T22:44:00Z | datetime |
|  | publisher |  | 100 | Always | The publisher of this package | One or more printable ASCII characters | token |
|  | subject |  | 100 | Always | The subject of the tests in the test package | ELA, MATH | token |
|  | subType |  | 25 | Optional | The subtype of the test package | ICA, IAB | token |
|  | type |  | 30 | Always | The test type of the test package | summative, interim | token |
|  | version |  |  | Always | The version of this test specification. As of the publishing of this document, the version value must be an integer or long (non-decimal) value |  | decimal |
| Blueprint |  | TestPackage:Blueprint |  | Always | The test-level Blueprint element contains the following attributes:  minExamItems/maxExamItems: the minimum and maximum operational items to administer for this assessment  minFieldTestItems/maxFieldTestItems: the minimum and maximum field test items to administer for this assessment |  |  |
| BlueprintElement |  | TestPackage:Blueprint:BlueprintElement |  | Optional | Each element or component of a blueprint must have a corresponding BlueprintElement. A BlueprintElement identifies a set of items for one or both of the following purposes: Creating a test 'form' adaptively, Scoring a test.  In addition to a subject's taxonomy of content standards, the following are also BlueprintElements: The test itself (for establishing scoring and reporting features) Every test segment (for item selection and administration) Depth of Knowledge categories Other (arbitrary) sets of items (may be useful for ad hoc identification of sets)  Depth of Knowledge and other arbitrary sets of items are lumped into one object type called an 'AffinityGroup'. This is also used for the SBAC Content Standards Repository object called 'SOCK', an acronym for 'Some Other Category of Knowledge' |  |  |
|  | description |  |  | Optional | A human readable description of the blueprint element | One or more printable ASCII characters | token |
|  | id |  | 150 | Always | The id of the blueprint element | One or more printable ASCII characters | token |
|  | label |  |  | Optional | A human readable label of a blueprint element | One or more printable ASCII characters | token |
|  | level |  |  | Optional | The level description in the blueprint hierarchy | One or more printable ASCII characters | token |
|  | type |  |  | Always | an arbitrary designation, usually from some aspect of a taxonomy defining the subject-area. (e.g., "claim", "target") | package, test, segment, affinitygroup, sock, claim, target | token |
| Scoring |  | TestPackage:Blueprint:BlueprintElement:Scoring |  | Optional |  |  |  |
| PerformanceLevels |  | TestPackage:Blueprint:BlueprintElement:Scoring:PerformanceLevels |  | Optional | Sets the performance level groups. Contains multiple performancelevel elements |  |  |
| PerformanceLevel |  | TestPackage:Blueprint:BlueprintElement:Scoring:PerformanceLevels:PerformanceLevel |  | Always | Cutscore that determines a coarse-grained level of skill-attainment. Performance levels are part of scoring and reporting. |  |  |
|  | pLevel |  | 10 | Always | Level at which student is considered proficient for the test | Integer >= 1 | integer |
|  | scaledHi |  | 30 | Always | High score to include in this performance level |  | float |
|  | scaledLo |  | 30 | Always | Low score to include in this performance level |  | float |
| Rules |  | TestPackage:Blueprint:BlueprintElement:Scoring:Rules |  | Always | Configurations for scoring the test, consisting of:  - rules for computation  - score cut points for determining performance levels |  |  |
| Rule |  | TestPackage:Blueprint:BlueprintElement:Scoring:Rules:Rule |  | Always | A rule for computing a score element, such as:  - overall theta or scaled score - strand score - benchmark score |  |  |
|  | computationOrder |  | 10 | Optional | The order that the computations are processed. | Integer >= 1 | integer |
|  | name |  |  | Always | The computation rule's name | One or more printable ASCII characters | token |
| Parameter |  | TestPackage:Blueprint:BlueprintElement:Scoring:Rules:Rule:Parameter |  | Optional | A parameter for a computation rule |  |  |
|  | id |  | 250 | Always | Uniquely identifies this rule parameter | One or more printable ASCII characters | token |
|  | name |  | 128 | Optional | Parameter name | One or more printable ASCII characters | token |
|  | position |  | 10 | Always | Order of this parameter within scoring method signature | Integer >= 1 | integer |
|  | type |  | 16 | Always | Defines the parameter variable type | int, double, string | token |
| Property |  | TestPackage:Blueprint:BlueprintElement:Scoring:Rules:Rule:Parameter:Property |  | Optional |  |  |  |
|  | name |  | 200 | Always | If indextype is provided, then the paramter is a Dictionary and each parameter value must define the index attribute. | One or more printable ASCII characters | token |
|  | value |  | 200 | Always |  | int, double, string | token |
| Value |  | TestPackage:Blueprint:BlueprintElement:Scoring:Rules:Rule:Parameter:Value |  | Always |  |  |  |
|  | index |  | 10 | Optional | The value, if provided, must match the type defined in the indextype property value attribute. | One or more printable ASCII characters | token |
|  | value |  | 255 | Always | The value must match the Parameter/@type value | One or more printable ASCII characters | token |
| Test |  | TestPackage:Test |  | Always | The test element defines an individual test (or test part) of a test package |  |  |
|  | id |  | 200 | Always | The unique identifier of the test | One or more printable ASCII characters | token |
|  | label |  | 255 | Always | The human readable label of the test | One or more printable ASCII characters | token |
| Grades |  | TestPackage:Test:Grades |  | Always | The list of grades the test corresponds to |  |  |
| Grade |  | TestPackage:Test:Grades:Grade |  | Always |  |  |  |
|  | label |  | 64 | Optional | The human readable label of the grade (e.g., "Kindergarden", "Grade 12") | Grade 2, Grade 12, Kindergarden | token |
|  | value |  | 25 | Always | The grade code/integer value for the grade (e.g., "KR", "1", "12") | 2, 12, KR | token |
| Segments |  | TestPackage:Test:Segments |  | Always |  |  |  |
| Segment |  | TestPackage:Test:Segments:Segment |  | Always | Every Test must contain one or more segments (an "unsegmented" test is actually a single-segment test).  A segment defines a partition of a test wherein various presentational aspects may be controlled (such as isolating calculator items from non-calculator items). The Segment contains the following sub-elements: SegmentBlueprint: The segment blueprint constraints for selecting items, each references a test-level BlueprintElement One of the following, depending on the item selection type: Pool - The segment pool of items, for adaptive segments Forms - A list of forms for the segment, for fixed-form assessments ItemSelector: the method for selecting items for the segment (e.g. "fixedform", "adaptive") Tools: A list of universal tools, accommodations, and designated supports along with various options and dependency rules |  |  |
|  | algorithmImplementation |  | 50 | Always | The algorithm type implementation | FAIRWAY ROUNDROBIN, AIR ADAPTIVE | token |
|  | algorithmType |  | 50 | Always | The type of selection algorithm | fixedform, adaptive | token |
|  | entryApproval |  | 5 | Optional | A flag indicating that a student will require approval to enter the segment | true, false, 0, 1 | boolean |
|  | exitApproval |  | 5 | Optional | A flag indicating that a student will require approval to exit the segment | true, false, 0, 1 | boolean |
|  | id |  | 200 | Always | The unique identifier of the segment | One or more printable ASCII characters | token |
|  | label |  | 255 | Optional | A human-readable label to be displayed in the student and proctor application - if no label is provided, the segment key will be used. | One or more printable ASCII characters | token |
|  | position |  |  | Optional | The position of the segment in the assessment (1-based). If no position is provided, the default value is "1" | Integer >= 1 | short |
| Pool |  | TestPackage:Test:Segments:Segment:Pool |  | Always | The Segment's Pool - A list of items/itemgroups that is specific for adaptive segments. A pool containing items that can be selected for a segment, based on adaptive algorithm calculations, min/max item constraits at the strand, contentlevel, segment, or assessment levels. |  |  |
| ItemGroup |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup |  | Always | A grouping of one or more items. The item group items must always be presented in the test together in a single page |  |  |
|  | id |  | 10 | Always | The identifier of the item group | As of the publishing of this document, the Test Delivery System only supports integer/long values as an item group identifier | token |
|  | maxItems |  | 10 | Optional | Maximum number of items in this form partition | ALL or an integer >= 0 | token |
|  | maxResponses |  | 10 | Optional | Maximum responses for this form partition | ALL or an integer >= 0 | token |
| Item |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Item |  | Always |  |  |  |
|  | active |  | 5 | Optional | Flag indicating whether the item should not be scored (default is "false") | true, false, 0, 1 | boolean |
|  | administrationRequired |  | 5 | Optional | Flag indicating whether the item must be administered (default is "true") | true, false, 0, 1 | boolean |
|  | doNotScore |  | 5 | Optional | Flag indicating whether the item should not be scored (default is "false") | true, false, 0, 1 | boolean |
|  | fieldTest |  | 5 | Optional | Flag indicating whether the item is a field test item (default is "false") | true, false, 0, 1 | boolean |
|  | handScored |  | 5 | Optional | Flag indicating whether the item must be handscored (default is "false") | true, false, 0, 1 | boolean |
|  | id |  | 10 | Always | The identifier for the item | As of the publishing of this document, the Test Delivery System only supports integer/long values as an item identifier | token |
|  | responseRequired |  | 5 | Optional | Flag indicating whether the item is required to be responded to before proceeding with the test (default is "true") | true, false, 0, 1 | boolean |
|  | type |  | 50 | Always | The type of item | MC, ER, SA, WER, TI, EQ, GI, HTQ, MI, etc | token |
| BlueprintReferences |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Item:BlueprintReferences |  | Always | The collection of blueprint references for a given item |  |  |
| BlueprintReference |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Item:BlueprintReferences:BlueprintReference |  | Always | An element used to link individual items with specific blueprint elements |  |  |
|  | idRef |  | 150 | Always | The id of the blueprint element that corresponds to this item | One or more printable ASCII characters | token |
| ItemScoreDimension |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Item:ItemScoreDimension |  |  | A dimension along which an item may be scored. |  |  |
|  | dimension |  | 200 | Optional | The dimension type | One or more printable ASCII characters | token |
|  | measurementModel |  | 50 | Always | The scoring measurement model | IRT3pln, IRTPCL, RAW, IRT3PL, IRTGPC | token |
|  | scorePoints |  | 10 | Always | Scoring points for this scoring dimension | Integer >= 0 | integer |
|  | weight |  | 30 | Always | Weight applied for the scoring dimension |  | float |
| ItemScoreParameter |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Item:ItemScoreDimension:ItemScoreParameter |  | Optional |  |  |  |
|  | measurementParameter |  | 50 | Always | A parameter within a dimension. e.g. for IRT3pl there are 3 parameters, named a, b, and c. | a, b, c, b0, b1, b2, b3, b4, b5…. | token |
|  | value |  |  | Always | The value of the measurement parameter |  | float |
| Presentations |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Item:Presentations |  | Always | The list of presentations/languages (codes) compatible with the given item or form. For fixed form item selection, an item MUST contain the language of the form it belongs to in order to be compatible. |  |  |
| Presentation |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Item:Presentations:Presentation |  | Always |  |  |  |
|  | code |  | 20 | Always | The code of the presentation type | ENU, ENU-Braille, ESN | token |
|  | label |  | 20 | Optional | The human readable label of the presentation type (if not defined, the code will be used) | English, Braille, Spanish | token |
| TeacherHandScoring |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Item:TeacherHandScoring |  | Optional |  |  |  |
|  | description |  |  | Always |  | One or more printable ASCII characters | token |
|  | exemplar |  |  | Optional |  | One or more printable ASCII characters | token |
|  | itemname |  |  | Optional |  | One or more printable ASCII characters | token |
|  | layout |  |  | Optional |  | One or more printable ASCII characters | token |
|  | passage |  |  | Optional |  | One or more printable ASCII characters | token |
|  | trainingGuide |  |  | Optional |  | One or more printable ASCII characters | token |
| Dimensions |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Item:TeacherHandScoring:Dimensions |  | Optional |  |  | String |
| Stimulus |  | TestPackage:Test:Segments:Segment:Pool:ItemGroup:Stimulus |  | Optional | The stimulus associated with the item group items |  |  |
|  | id |  | 10 | Always | Thte identifier for the stimulus | As of the publishing of this document, the Test Delivery System only supports integer/long values as an stimulus identifier | token |
| SegmentBlueprint |  | TestPackage:Test:Segments:Segment:SegmentBlueprint |  | Optional | A segment-level Blueprint that defines item selection rules for adaptive segments  ATTRIBUTES: minExamItems/maxExamItems: the minimum and maximum operational items to administer from this blueprint category minFieldTestItems/maxFieldTestItems: (OPTIONAL) the minimum and maximum field test items to administer - default to "0" |  |  |
| SegmentBlueprintElement |  | TestPackage:Test:Segments:Segment:SegmentBlueprint:SegmentBlueprintElement |  | Always | BlueprintElement   ATTRIBUTES:minExamItems/maxExamItems: |  |  |
|  | idRef |  | 150 | Always | The id of the test-package level blueprint element being referenced | One or more printable ASCII characters | token |
|  | maxExamItems |  |  | Always | The maximum operational items to administer from this blueprint element | Integer >= 0 | integer |
|  | maxFieldTestItems |  |  | Optional | The maximum field test items to administer from this blueprint element. If not present, the default value is "0" | Integer >= 0 | integer |
|  | minExamItems |  |  | Always | The minimum operational items to administer from this blueprint element | Integer >= 0 | integer |
|  | minFieldTestItems |  |  | Optional | The minimum field test items to administer from this blueprint element. If not present, the default value is "0" | Integer >= 0 | integer |
| ItemSelection |  | TestPackage:Test:Segments:Segment:SegmentBlueprint:SegmentBlueprintElement:ItemSelection |  | Optional | The item selection element |  |  |
| Property |  | TestPackage:Test:Segments:Segment:SegmentBlueprint:SegmentBlueprintElement:ItemSelection:Property |  | Always |  |  |  |
|  | name |  | 200 | Always | The property code name | Fixed form values include: slope, intercept. Adaptive values include: isstrictmax, bpweight, adaptivecut, startability, startinfo, scalar, … | token |
|  | value |  | 100 | Always | The value of the property | One or more printable ASCII characters | token |
| SegmentForms |  | TestPackage:Test:Segments:Segment:SegmentForms |  | Always | The forms available form selection for this assessment (typically based on subject and the form cohort), at least one form is required per-segment, for fixed-form segments. |  |  |
| SegmentForm |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm |  | Always | Segment-level form definition. (Only required when segments use the 'fixed form' item selection algorithm)  This is used by the test registration/administration module to pre-assign specific forms to examinees. It also is used to establish the defined and finite set of cohorts to which every segment fixed form must belong.  Example: The Test containts two Segments, each with two possibles forms about music:  SEGMENT 1: Form 1 has an id of "Music1-HM" and a cohort of "Heavy Metal" Form 2 has an id of "Music1-J" and a cohort of "Jazz" SEGMENT 2: Form 3 has an id of "Music2-HM" and a cohort of "Heavy Metal" Form 4 has an id of "Music2-J" and a cohort of "Jazz"  If "Music1-HM" is selected for the examinee's first segment, then the linked cohort will ensure that Form 3 is ALWAYS selected for the second segment. Likewise, if Form 2 is selected for the first segment, Form 4 will always follow in the second segment. |  |  |
|  | cohort |  | 20 | Optional | The form cohort - A string used to link forms of different segments | One or more printable ASCII characters | token |
|  | id |  | 150 | Always | The form identifier | One or more printable ASCII characters | token |
| ItemGroup |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup |  | Always | A grouping of one or more items. The item group items must always be presented in the test together in a single page |  |  |
|  | id |  | 10 | Always | The identifier of the item group | As of the publishing of this document, the Test Delivery System only supports integer/long values as an item group identifier | token |
|  | maxItems |  | 10 | Optional | Maximum number of items in this form partition | ALL or an integer >= 0 | token |
|  | maxResponses |  | 10 | Optional | Maximum responses for this form partition | ALL or an integer >= 0 | token |
| Item |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Item |  | Always |  |  |  |
|  | active |  | 5 | Optional | Flag indicating whether the item should not be scored (default is "false") | true, false, 0, 1 | boolean |
|  | administrationRequired |  | 5 | Optional | Flag indicating whether the item must be administered (default is "true") | true, false, 0, 1 | boolean |
|  | doNotScore |  | 5 | Optional | Flag indicating whether the item should not be scored (default is "false") | true, false, 0, 1 | boolean |
|  | fieldTest |  | 5 | Optional | Flag indicating whether the item is a field test item (default is "false") | true, false, 0, 1 | boolean |
|  | handScored |  | 5 | Optional | Flag indicating whether the item must be handscored (default is "false") | true, false, 0, 1 | boolean |
|  | id |  | 10 | Always | The identifier for the item | As of the publishing of this document, the Test Delivery System only supports integer/long values as an item identifier | token |
|  | responseRequired |  | 5 | Optional | Flag indicating whether the item is required to be responded to before proceeding with the test (default is "true") | true, false, 0, 1 | boolean |
|  | type |  | 50 | Always | The type of item | MC, ER, SA, WER, TI, EQ, GI, HTQ, MI, etc | token |
| BlueprintReferences |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Item:BlueprintReferences |  | Always |  |  |  |
| BlueprintReference |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Item:BlueprintReferences:BlueprintReference |  | Always | A reference to a blueprint element. At least one BlueprintElement reference is required for each item |  |  |
|  | idRef |  |  | Always |  | One or more printable ASCII characters | token |
| ItemScoreDimension |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Item:ItemScoreDimension |  |  | A dimension along which an item may be scored.  ATTRIBUTES: - measurementModel: e.g. IRT3PL, IRTPCL (must be recognizable by the test scoring engine; simulator may also need this info) - scorePoints: Maximum number of points an examinee may received for this item - dimension: An item may have scores on multiple dimensions, each with its own scales and rules. Typically, however, there is a single dimension  - weight: Where an item is scored separately on multiple dimensions, a composite score may be computed from a weighted combination of the dimension scores |  |  |
|  | dimension |  | 200 | Optional | The dimension type | One or more printable ASCII characters | token |
|  | measurementModel |  | 50 | Always | The scoring measurement model | IRT3pln, IRTPCL, RAW, IRT3PL, IRTGPC | token |
|  | scorePoints |  | 10 | Always | Scoring points for this scoring dimension | Integer >= 0 | integer |
|  | weight |  | 30 | Always | Weight applied for the scoring dimension |  | float |
| ItemScoreParameter |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Item:ItemScoreDimension:ItemScoreParameter |  | Always | A parameter within a dimension. e.g. for IRT3pl there are 3 parameters, named a, b, and c. |  |  |
|  | measurementParameter |  | 50 | Always | A parameter within a dimension. e.g. for IRT3pl there are 3 parameters, named a, b, and c. | a, b, c, b0, b1, b2, b3, b4, b5…. | token |
|  | value |  |  | Always | The value of the measurement parameter |  | float |
| Presentations |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Item:Presentations |  | Always |  |  |  |
| Presentation |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Item:Presentations:Presentation |  | Always |  |  |  |
|  | code |  | Always | "ENU", "ENU-Braille", "ESN" | The list of presentations/languages (codes) compatible with the given item or form. For fixed form item selection, an item MUST contain the language of the form it belongs to in order to be compatible. | ENU, ENU-Braille, ESN | token |
|  | label |  | Optional | "English", "Braille", "Spanish" | The human readable label of the presentation type (if not defined, the code will be used) | English, Braille, Spanish | token |
| TeacherHandScoring |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Item:TeacherHandScoring |  | Optional | Teacher Hand Scoring System configuration. Reference https://github.com/SmarterApp/TDS\_TeacherHandScoringSystem |  |  |
|  | description |  |  | Always |  | One or more printable ASCII characters | token |
|  | exemplar |  |  | Optional |  | One or more printable ASCII characters | token |
|  | itemname |  |  | Optional |  | One or more printable ASCII characters | token |
|  | layout |  |  | Optional |  | One or more printable ASCII characters | token |
|  | passage |  |  | Optional |  | One or more printable ASCII characters | token |
|  | trainingGuide |  |  | Optional |  | One or more printable ASCII characters | token |
| Dimensions |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Item:TeacherHandScoring:Dimensions |  | Optional |  |  |  |
| Stimulus |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:ItemGroup:Stimulus |  | Optional | The stimuli of the item group, also known as the "passage". An item group may not necessarily contain a stimuli, such as in case where the item group is a singular, self-contained item.  ATTRIBUTES: - id: The stimuli identifier, also referred to as the "passage key". This is an integer value (e.g., 187-<b>1234</b>) |  |  |
|  | id |  |  | Always |  | One or more printable ASCII characters | token |
| Presentations |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:Presentations |  | Always | The list of presentations/languages (codes) compatible with the given item or form. For fixed form item selection, an item MUST contain the language of the form it belongs to in order to be compatible. |  |  |
| Presentation |  | TestPackage:Test:Segments:Segment:SegmentForms:SegmentForm:Presentations:Presentation |  | Always |  |  |  |
|  | code |  |  | Always | The code of the presentation type | ENU, ENU-Braille, ESN | token |
|  | label |  |  | Optional |  | English, Braille, Spanish | token |
| Tools |  | TestPackage:Test:Segments:Segment:Tools |  | Optional |  |  |  |
| Tool |  | TestPackage:Test:Segments:Segment:Tools:Tool |  | Always | A "Tool" is a general term for any universal tools, designated supports, or accommodations. Each Tool respresents a type of tool, such as "Zoom", "American Sign Language", "Masking", and "Calculator" and contains a list of its possible options and dependency rules. Tools can be defined at the assessment-level as well as the segment-level  SUBELEMENTS: The Options for the Tool |  |  |
|  | allowChange |  | 5 | Optional | A flag indicating whether or not the tool can be changed by the proctor when a student is waiting for approval to enter an assessment or segment | true, false, 0, 1 | boolean |
|  | allowMultiple |  | 5 | Optional | A flag indicating whether a tool type can have more than one option selected | true, false, 0, 1 | boolean |
|  | disableOnGuest |  | 5 | Optional | A flag indicating whether or not an accommodation should be disabled for guest students (default is "false") | true, false, 0, 1 | boolean |
|  | name |  | 255 | Always | The tool type "name". This is the string identifying the tool type. The tool type name may contain spaces. | Masking, Calculator, Mark for Review, Braille Type, etc | token |
|  | required |  | 5 | Optional | required: A flag indicating whether or not a tool selection is required for this type of tool | true, false, 0, 1 | boolean |
|  | sortOrder |  |  | Optional | An optional ordering of the type (ascending) |  | integer |
|  | studentPackageFieldName |  | 100 | Optional | The name/identifier of the tool/accommodation/designated supports used by ART. | TDSAcc-Masking, TDSAcc-Calculator, TDSAcc-MarkForReview, etc | token |
|  | type |  |  | Optional | The tool type | Universal Tools, Designated Supports Accommodation | token |
| Options |  | TestPackage:Test:Segments:Segment:Tools:Tool:Options |  | Optional | A list of two or more Options for the given Tool. Typically, a tool will have at the very least an "ON" or "OFF" option |  |  |
| Option |  | TestPackage:Test:Segments:Segment:Tools:Tool:Options:Option |  | Always | An Option for a Tool. For some tools, the list of Options should contain at least two elements - an "ON" and an "OFF" Option. |  |  |
|  | code |  | 255 | Always | The ISAAP code corresponding to the Tool Option | TDS\_MfR0, TDS\_Masking1, TDS\_ExpandablePassages0, etc | token |
|  | default |  | 5 | Optional | Flag indicating whether the option is the default selected option (default is "false") | true, false, 0, 1 | boolean |
|  | label |  |  | Optional | The label value in which the option should be displayed on the UI | One or more printable ASCII characters | token |
|  | sortOrder |  |  | Always | The order value in which the option should be displayed on the UI |  | integer |
| Dependencies |  | TestPackage:Test:Segments:Segment:Tools:Tool:Options:Option:Dependencies |  | Optional | (OPTIONAL) A list of one or more dependencies indicating whether an Option(s) should be enabled based on other Tool selections |  |  |
| Dependency |  | TestPackage:Test:Segments:Segment:Tools:Tool:Options:Option:Dependencies:Dependency |  | Always | A Dependency defines a rule for when a specific Tool Option should be enabled or available to an examinee.  The Dependency can be read as:  if <ifToolType> is <ifToolCode>, then the option is enabled  e.g., "IF <Language> IS <ENU>, THEN <'Emboss' option should be enabled>" |  |  |
|  | ifToolCode |  | 255 | Always | The conditional tool code (option) of the rule | One or more printable ASCII characters | token |
|  | ifToolType |  | 255 | Always | The conditional tool type of the rule | One or more printable ASCII characters | token |
| Tools |  | TestPackage:Test:Tools |  | Optional |  |  |  |
| Tool |  | TestPackage:Test:Tools:Tool |  | Always | A "Tool" is a general term for any universal tools, designated supports, or accommodations. Each Tool respresents a type of tool, such as "Zoom", "American Sign Language", "Masking", and "Calculator" and contains a list of its possible options and dependency rules. Tools can be defined at the assessment-level as well as the segment-level  SUBELEMENTS: The Options for the Tool |  |  |
|  | allowChange |  | 5 | Optional | A flag indicating whether or not the tool can be changed by the proctor when a student is waiting for approval to enter an assessment or segment | true, false, 0, 1 | boolean |
|  | allowMultiple |  | 5 | Optional | A flag indicating whether a tool type can have more than one option selected | true, false, 0, 1 | boolean |
|  | disableOnGuest |  | 5 | Optional | A flag indicating whether or not an accommodation should be disabled for guest students (default is "false") | true, false, 0, 1 | boolean |
|  | name |  | 255 | Always | The tool type "name". This is the string identifying the tool type. The tool type name may contain spaces. | Masking, Calculator, Mark for Review, Braille Type, etc | token |
|  | required |  | 5 | Optional | required: A flag indicating whether or not a tool selection is required for this type of tool | true, false, 0, 1 | boolean |
|  | sortOrder |  |  | Optional | An optional ordering of the type (ascending) |  | integer |
|  | studentPackageFieldName |  | 100 | Optional | The name/identifier of the tool/accommodation/designated supports used by ART. | TDSAcc-Masking, TDSAcc-Calculator, TDSAcc-MarkForReview, etc | token |
|  | type |  |  | Optional | The tool type | Universal Tools, Designated Supports Accommodation | token |
| Options |  | TestPackage:Test:Tools:Tool:Options |  | Always | A list of two or more Options for the given Tool. Typically, a tool will have at the very least an "ON" or "OFF" option |  |  |
| Option |  | TestPackage:Test:Tools:Tool:Options:Option |  | Always | An Option for a Tool. For some tools, the list of Options should contain at least two elements - an "ON" and an "OFF" Option. |  |  |
|  | code |  | 255 | Always | The ISAAP code corresponding to the Tool Option | TDS\_MfR0, TDS\_Masking1, TDS\_ExpandablePassages0, etc | token |
|  | default |  | 5 | Optional | Flag indicating whether the option is the default selected option (default is "false") | true, false, 0, 1 | boolean |
|  | label |  |  | Optional | The label value in which the option should be displayed on the UI | One or more printable ASCII characters | token |
|  | sortOrder |  |  | Always | The order value in which the option should be displayed on the UI |  | integer |
| Dependencies |  | TestPackage:Test:Tools:Tool:Options:Option:Dependencies |  | Optional | (OPTIONAL) A list of one or more dependencies indicating whether an Option(s) should be enabled based on other Tool selections |  |  |
| Dependency |  | TestPackage:Test:Tools:Tool:Options:Option:Dependencies:Dependency |  | Always | A Dependency defines a rule for when a specific Tool Option should be enabled or available to an examinee.  The Dependency can be read as:  if <ifToolType> is <ifToolCode>, then the option is enabled  e.g., "IF <Language> IS <ENU>, THEN <'Emboss' option should be enabled>" |  |  |
|  | ifToolCode |  | 255 | Always | The conditional tool code (option) of the rule | One or more printable ASCII characters | token |
|  | ifToolType |  | 255 | Always | The conditional tool type of the rule | One or more printable ASCII characters | token |

# Sample XML Files

A couple of example of the Enhanced Adminstration Package Format files are listed below.

### IAB Fixed Form Sample XML File

Below is an ELA 11 Performance Test Administration Package which is an example of a fixed form IAB test package in the Enhanced Adminstration Package Format:

<TestPackage publisher="SBAC" publishDate="2017-06-16T13:51:00Z" subject="ELA" type="interim" version="1" bankKey="200" academicYear="2018">

<Blueprint>

<BlueprintElement id="SBAC-IAB-FIXED-G11E-Perf-Explanatory-Marshmallow\_QA" type="test">

<Scoring>

<PerformanceLevels>

<PerformanceLevel scaledLo="2299.0" scaledHi="2493.0" pLevel="1"/>

<PerformanceLevel scaledLo="2493.0" scaledHi="2583.0" pLevel="2"/>

<PerformanceLevel scaledLo="2583.0" scaledHi="2682.0" pLevel="3"/>

<PerformanceLevel scaledLo="2682.0" scaledHi="2795.0" pLevel="4"/>

</PerformanceLevels>

<Rules>

<Rule computationOrder="10" name="SBACIABAttemptedness"/>

<Rule computationOrder="40" name="SEBasedPLWithRounding">

<Parameter name="seMultiple" id="7B19E304-3863-4F12-9A75-E311DD578EC1" type="double" position="1">

<Value value="1.5"/>

</Parameter>

<Parameter name="proficientPerformanceLevel" id="2EE0DDB3-7AD5-495E-B1CE-72D4C2BB1AAC" type="int" position="2">

<Value value="3"/>

</Parameter>

<Parameter name="LOT" id="4363F62B-647C-4831-B334-DA5A1B5EA596" type="double" position="3">

<Value value="-2.4375"/>

</Parameter>

<Parameter name="HOT" id="8191A641-6455-4AAF-840F-FF13BD6E5747" type="double" position="4">

<Value value="3.3392"/>

</Parameter>

</Rule>

<Rule computationOrder="20" name="SBACTheta">

<Parameter name="LOT" id="933D98F3-34BC-4957-8FAE-0B66CB0AB41E" type="double" position="1">

<Value value="-2.4375"/>

</Parameter>

<Parameter name="HOT" id="11D307FC-7B83-4ECC-AAF8-C5E1445897C8" type="double" position="2">

<Value value="3.3392"/>

</Parameter>

<Parameter name="seLimit" id="E766945F-93FF-4671-B21D-ADCEFDB02AF3" type="double" position="3">

<Value value="2.5"/>

</Parameter>

</Rule>

<Rule computationOrder="30" name="ScaleScore"/>

<Rule computationOrder="50" name="SBACAccommodationUseCodes">

<Parameter name="accomNoCodes" id="A04CEA62-7A8C-4C39-859D-CEDA15FAA0AA" type="string" position="1">

<Property name="indextype" value="string"/>

<Value index="Print Size" value="TDS\_PS\_L0"/>

</Parameter>

</Rule>

</Rules>

</Scoring>

<BlueprintElement id="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-1-ELA-11" type="segment"/>

<BlueprintElement id="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-2-ELA-11" type="segment"/></BlueprintElement>

<BlueprintElement id="2-W" type="claim">

<BlueprintElement id="2-W|4-11" type="target"/></BlueprintElement>

<BlueprintElement id="4-CR" type="claim">

<BlueprintElement id="4-CR|2-11" type="target"/>

<BlueprintElement id="4-CR|4-11" type="target"/></BlueprintElement>

</Blueprint>

<Test id="SBAC-IAB-FIXED-G11E-Perf-Explanatory-Marshmallow\_QA" label="High School ELA Performance Task - How We Learn (IAB)\_QA">

<Segments>

<Segment position="1" id="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-1-ELA-11" label="(SBAC)SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-1-ELA-11-Winter-2017-2018" algorithmImplementation="AIR FIXEDFORM1" algorithmType="fixedform">

<SegmentBlueprint>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" minExamItems="0" maxExamItems="3" idRef="4-CR"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" minExamItems="0" maxExamItems="3" idRef="4-CR|2-11"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" minExamItems="0" maxExamItems="3" idRef="4-CR|4-11"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" minExamItems="2" maxExamItems="2" idRef="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-1-ELA-11">

<ItemSelection>

<Property name="slope" value="85.8"/>

<Property name="intercept" value="2508.2"/>

</ItemSelection>

</SegmentBlueprintElement>

</SegmentBlueprint>

<SegmentForms>

<SegmentForm id="IAB-G11E-PT1-2018 ENG" cohort="Default">

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

<ItemGroup maxResponses="ALL" maxItems="ALL" id="2025">

<Stimulus id="2025"/>

<Item administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" active="true" fieldTest="false" id="62023" type="SA">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-1-ELA-11"/>

<BlueprintReference idRef="4-CR"/>

<BlueprintReference idRef="4-CR|2-11"/>

</BlueprintReferences>

<ItemScoreDimension scorePoints="2" weight="1.0" measurementModel="IRTGPC">

<ItemScoreParameter measurementParameter="a" value="0.7306200265884399"/>

<ItemScoreParameter measurementParameter="b0" value="1.4085500240325928"/>

<ItemScoreParameter measurementParameter="b1" value="2.455169916152954"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

</Item>

<Item administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" active="true" fieldTest="false" id="62025" type="SA">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-1-ELA-11"/>

<BlueprintReference idRef="4-CR"/>

<BlueprintReference idRef="4-CR|4-11"/>

</BlueprintReferences>

<ItemScoreDimension scorePoints="2" weight="1.0" measurementModel="IRTGPC">

<ItemScoreParameter measurementParameter="a" value="0.6373000144958496"/>

<ItemScoreParameter measurementParameter="b0" value="0.8460400104522705"/>

<ItemScoreParameter measurementParameter="b1" value="1.5986000299453735"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

</Item>

</ItemGroup>

</SegmentForm>

<SegmentForm id="IAB-G11E-PT1-2018 BRL" cohort="Default-ENU">

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

<ItemGroup maxResponses="ALL" maxItems="ALL" id="2025">

<Stimulus id="2025"/>

<Item administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" active="true" fieldTest="false" id="62023" type="SA">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-1-ELA-11"/>

<BlueprintReference idRef="4-CR"/>

<BlueprintReference idRef="4-CR|2-11"/>

</BlueprintReferences>

<ItemScoreDimension scorePoints="2" weight="1.0" measurementModel="IRTGPC">

<ItemScoreParameter measurementParameter="a" value="0.7306200265884399"/>

<ItemScoreParameter measurementParameter="b0" value="1.4085500240325928"/>

<ItemScoreParameter measurementParameter="b1" value="2.455169916152954"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

</Item>

<Item administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" active="true" fieldTest="false" id="62025" type="SA">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-1-ELA-11"/>

<BlueprintReference idRef="4-CR"/>

<BlueprintReference idRef="4-CR|4-11"/>

</BlueprintReferences>

<ItemScoreDimension scorePoints="2" weight="1.0" measurementModel="IRTGPC">

<ItemScoreParameter measurementParameter="a" value="0.6373000144958496"/>

<ItemScoreParameter measurementParameter="b0" value="0.8460400104522705"/>

<ItemScoreParameter measurementParameter="b1" value="1.5986000299453735"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

</Item>

</ItemGroup>

</SegmentForm>

</SegmentForms>

</Segment>

<Segment position="2" id="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-2-ELA-11" label="(SBAC)SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-2-ELA-11-Winter-2017-2018" algorithmImplementation="AIR FIXEDFORM1" algorithmType="fixedform">

<SegmentBlueprint>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" minExamItems="0" maxExamItems="1" idRef="2-W"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" minExamItems="0" maxExamItems="1" idRef="2-W|4-11"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" minExamItems="1" maxExamItems="1" idRef="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-2-ELA-11">

<ItemSelection>

<Property name="slope" value="85.8"/>

<Property name="intercept" value="2508.2"/>

</ItemSelection>

</SegmentBlueprintElement>

</SegmentBlueprint>

<SegmentForms>

<SegmentForm id="IAB-G11E-PT2-2018 ENG" cohort="Default">

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

<ItemGroup maxResponses="ALL" maxItems="ALL" id="2025">

<Stimulus id="2025"/>

<Item administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" active="true" fieldTest="false" id="62027" type="WER">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-2-ELA-11"/>

<BlueprintReference idRef="2-W"/>

<BlueprintReference idRef="2-W|4-11"/>

</BlueprintReferences>

<ItemScoreDimension dimension="C" scorePoints="2" weight="1.0" measurementModel="IRTGPC">

<ItemScoreParameter measurementParameter="a" value="0.5691199898719788"/>

<ItemScoreParameter measurementParameter="b0" value="0.9350799918174744"/>

<ItemScoreParameter measurementParameter="b1" value="0.9502400159835815"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

</Item>

</ItemGroup>

</SegmentForm>

<SegmentForm id="IAB-G11E-PT2-2018 BRL" cohort="Default-ENU">

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

<ItemGroup maxResponses="ALL" maxItems="ALL" id="2025">

<Stimulus id="2025"/>

<Item administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" active="true" fieldTest="false" id="62027" type="WER">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-IAB-FIXED-G11E-Perf-Exp-Marshmallow-2-ELA-11"/>

<BlueprintReference idRef="2-W"/>

<BlueprintReference idRef="2-W|4-11"/>

</BlueprintReferences>

<ItemScoreDimension dimension="C" scorePoints="2" weight="1.0" measurementModel="IRTGPC">

<ItemScoreParameter measurementParameter="a" value="0.5691199898719788"/>

<ItemScoreParameter measurementParameter="b0" value="0.9350799918174744"/>

<ItemScoreParameter measurementParameter="b1" value="0.9502400159835815"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="English" code="ENU"/>

<Presentation label="Braille" code="ENU-Braille"/>

</Presentations>

</Item>

</ItemGroup>

</SegmentForm>

</SegmentForms>

</Segment>

</Segments>

<Grades>

<Grade value="11" label="grade 11"/>

</Grades>

<Tools>

<Tool name="Expandable Passages">

<Options>

<Option code="TDS\_ExpandablePassages0" sortOrder="0" />

<Option code="TDS\_ExpandablePassages1" sortOrder="1" />

</Options>

</Tool>

<Tool name="Mark for Review">

<Options>

<Option code="TDS\_MfR0" sortOrder="0" />

<Option code="TDS\_MfR1" sortOrder="1" />

</Options>

</Tool>

<Tool name="Masking">

<Options>

<Option code="TDS\_Masking0" sortOrder="0" />

<Option code="TDS\_Masking1" sortOrder="1" />

</Options>

</Tool>

<Tool name="American Sign Language">

<Options>

<Option code="TDS\_ASL0" sortOrder="0" />

<Option code="TDS\_ASL1" sortOrder="1" />

</Options>

</Tool>

<Tool name="Strikethrough">

<Options>

<Option code="TDS\_ST0" sortOrder="0" />

<Option code="TDS\_ST1" sortOrder="1" />

</Options>

</Tool>

<Tool name="Streamlined Mode">

<Options>

<Option code="TDS\_SLM0" sortOrder="0" />

<Option code="TDS\_SLM1" sortOrder="1" />

</Options>

</Tool>

<Tool name="Closed Captioning">

<Options>

<Option code="TDS\_ClosedCap0" sortOrder="0" />

<Option code="TDS\_ClosedCap1" sortOrder="1" />

</Options>

</Tool>

<Tool name="Global Notes">

<Options>

<Option code="TDS\_GN0" sortOrder="0" />

<Option code="TDS\_GN1" sortOrder="1" />

</Options>

</Tool>

<Tool name="Student Comments">

<Options>

<Option code="TDS\_SC0" sortOrder="0" />

<Option code="TDS\_SCNotepad" sortOrder="1" />

</Options>

</Tool>

<Tool name="Print on Request">

<Options>

<Option code="TDS\_PoD0" sortOrder="0" />

<Option code="TDS\_PoD\_Item" sortOrder="1" />

<Option code="TDS\_PoD\_Stim" sortOrder="2" />

<Option code="TDS\_PoD\_Stim&amp;TDS\_PoD\_Item" sortOrder="3" />

</Options>

</Tool>

<Tool name="Tutorial">

<Options>

<Option code="TDS\_T0" sortOrder="0" />

<Option code="TDS\_T1" sortOrder="1" />

</Options>

</Tool>

<Tool name="Highlight">

<Options>

<Option code="TDS\_Highlight0" sortOrder="0" />

<Option code="TDS\_Highlight1" sortOrder="1" />

</Options>

</Tool>

</Tools>

</Test>

</TestPackage>

### ICA Fixed Form Sample XML File

Below is an ELA 6 Performance Test Administration Package which is an example of a fixed form ICA test package in the Enhanced Adminstration Package Format:

<TestPackage publisher="SBAC" publishDate="2017-06-14T18:56:00Z" subject="ELA" type="interim" version="1" bankKey="200" academicYear="2018">

<Blueprint>

<BlueprintElement id="SBAC-ICA-FIXED-G6E-COMBINED-2017" type="package">

<Scoring>

<PerformanceLevels>

<PerformanceLevel pLevel="1" scaledLo="2210.0" scaledHi="2457.0"/>

<PerformanceLevel pLevel="2" scaledLo="2457.0" scaledHi="2531.0"/>

<PerformanceLevel pLevel="3" scaledLo="2531.0" scaledHi="2618.0"/>

<PerformanceLevel pLevel="4" scaledLo="2618.0" scaledHi="2724.0"/>

</PerformanceLevels>

<Rules>

<Rule name="SBACTheta" computationOrder="20">

<Parameter name="LOT" id="933D98F3-34BC-4957-8FAE-0B66CB0AB41E" type="double" position="1">

<Value value="-3.4785"/>

</Parameter>

<Parameter name="HOT" id="11D307FC-7B83-4ECC-AAF8-C5E1445897C8" type="double" position="2">

<Value value="2.514"/>

</Parameter>

<Parameter name="seLimit" id="E766945F-93FF-4671-B21D-ADCEFDB02AF3" type="double" position="3">

<Value value="2.5"/>

</Parameter>

</Rule>

<Rule name="TestPerformanceLevel" computationOrder="35"/>

<Rule name="ScaleScore" computationOrder="30"/>

<Rule name="SBACAttemptedness" computationOrder="10">

<Parameter name="testPart" id="1511FAA2-FB95-4E48-ACA9-7E73AB947D33" type="int" position="1">

<Property name="indextype" value="string"/>

<Value value="1" index="SBAC-ICA-FIXED-G6E-COMBINED-ELA-6"/>

<Value value="2" index="SBAC-ICA-FIXED-G6E-Perf-ImportofNutriA-COMBINED-ELA-6"/>

<Value value="2" index="SBAC-ICA-FIXED-G6E-Perf-ImportofNutriB-COMBINED-ELA-6"/>

</Parameter>

</Rule>

<Rule name="RawScore" computationOrder="110"/>

<Rule name="ItemCountScored" computationOrder="100"/>

<Rule name="ItemCount" computationOrder="90"/>

<Rule name="SBACAccommodationUseCodes" computationOrder="300">

<Parameter name="accomNoCodes" id="A04CEA62-7A8C-4C39-859D-CEDA15FAA0AA" type="string" position="1">

<Property name="indextype" value="string"/>

<Value value="TDS\_PS\_L0" index="Print Size"/>

</Parameter>

</Rule>

</Rules>

</Scoring>

<BlueprintElement id="SBAC-ICA-FIXED-G6E-Perf-ImportanceOfNutrition" type="test">

<BlueprintElement id="SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionA-ELA-6" type="segment"/>

<BlueprintElement id="SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionB-ELA-6" type="segment"/>

</BlueprintElement>

<BlueprintElement id="SBAC-ICA-FIXED-G6E-ELA-6" type="test"/>

</BlueprintElement>

<BlueprintElement id="SOCK\_R" type="sock">

<Scoring>

<Rules>

<Rule name="MultipleStrandItemCountScored" computationOrder="132">

<Parameter name="subscales" id="AE57944A-5F49-4849-8744-A0C5A3F3EC10" type="string" position="1">

<Property name="indextype" value="int"/>

<Value value="1-IT" index="1"/>

<Value value="1-LT" index="2"/>

</Parameter>

</Rule>

<Rule name="SEBasedPLWithRounding" computationOrder="82">

<Parameter name="seMultiple" id="7B19E304-3863-4F12-9A75-E311DD578EC1" type="double" position="1">

<Value value="1.5"/>

</Parameter>

<Parameter name="proficientPerformanceLevel" id="2EE0DDB3-7AD5-495E-B1CE-72D4C2BB1AAC" type="int" position="2">

<Value value="3"/>

</Parameter>

<Parameter name="LOT" id="4363F62B-647C-4831-B334-DA5A1B5EA596" type="double" position="3">

<Value value="-3.4785"/>

</Parameter>

<Parameter name="HOT" id="8191A641-6455-4AAF-840F-FF13BD6E5747" type="double" position="4">

<Value value="2.514"/>

</Parameter>

</Rule>

<Rule name="ScaleScore" computationOrder="52"/>

<Rule name="SBACMultiStrandTheta" computationOrder="42">

<Parameter name="LOT" id="2BA8722F-BA15-42B1-B33B-88BC3578846D" type="double" position="1">

<Value value="-3.4785"/>

</Parameter>

<Parameter name="HOT" id="7BBC58A2-CD87-4543-A9E1-A0EAC9021049" type="double" position="2">

<Value value="2.514"/>

</Parameter>

<Parameter name="seLimit" id="CD0140A4-FF7F-4B7D-946E-688695B29929" type="double" position="3">

<Value value="2.5"/>

</Parameter>

<Parameter name="strands" id="111B0A47-379F-49B2-B704-6D968C64DDCE" type="string" position="4">

<Property name="indextype" value="int"/>

<Value value="1-IT" index="1"/>

<Value value="1-LT" index="2"/>

</Parameter>

</Rule>

<Rule name="MultiStrandRawScore" computationOrder="142">

<Parameter name="subscales" id="0F564274-3BBC-4A78-A363-71ACFEB12D55" type="string" position="1">

<Property name="indextype" value="int"/>

<Value value="1-IT" index="1"/>

<Value value="1-LT" index="2"/>

</Parameter>

</Rule>

<Rule name="MultipleStrandItemCount" computationOrder="122">

<Parameter name="subscales" id="1360E978-9481-4AC6-A5D6-6A0E2042292B" type="string" position="1">

<Property name="indextype" value="int"/>

<Value value="1-IT" index="1"/>

<Value value="1-LT" index="2"/>

</Parameter>

</Rule>

</Rules>

</Scoring>

</BlueprintElement>

<BlueprintElement id="SOCK\_LS" type="sock">

<Scoring>

<Rules>

<Rule name="SEBasedPLWithRounding" computationOrder="83">

<Parameter name="seMultiple" id="7B19E304-3863-4F12-9A75-E311DD578EC1" type="double" position="1">

<Value value="1.5"/>

</Parameter>

<Parameter name="proficientPerformanceLevel" id="2EE0DDB3-7AD5-495E-B1CE-72D4C2BB1AAC" type="int" position="2">

<Value value="3"/>

</Parameter>

<Parameter name="LOT" id="4363F62B-647C-4831-B334-DA5A1B5EA596" type="double" position="3">

<Value value="-3.4785"/>

</Parameter>

<Parameter name="HOT" id="8191A641-6455-4AAF-840F-FF13BD6E5747" type="double" position="4">

<Value value="2.514"/>

</Parameter>

</Rule>

<Rule name="MultipleStrandItemCount" computationOrder="123">

<Parameter name="subscales" id="1360E978-9481-4AC6-A5D6-6A0E2042292B" type="string" position="1">

<Property name="indextype" value="int"/>

<Value value="3-L" index="1"/>

<Value value="3-S" index="2"/>

</Parameter>

</Rule>

<Rule name="SBACMultiStrandTheta" computationOrder="43">

<Parameter name="LOT" id="2BA8722F-BA15-42B1-B33B-88BC3578846D" type="double" position="1">

<Value value="-3.4785"/>

</Parameter>

<Parameter name="HOT" id="7BBC58A2-CD87-4543-A9E1-A0EAC9021049" type="double" position="2">

<Value value="2.514"/>

</Parameter>

<Parameter name="seLimit" id="CD0140A4-FF7F-4B7D-946E-688695B29929" type="double" position="3">

<Value value="2.5"/>

</Parameter>

<Parameter name="strands" id="111B0A47-379F-49B2-B704-6D968C64DDCE" type="string" position="4">

<Property name="indextype" value="int"/>

<Value value="3-L" index="1"/>

<Value value="3-S" index="2"/>

</Parameter>

</Rule>

<Rule name="MultiStrandRawScore" computationOrder="143">

<Parameter name="subscales" id="0F564274-3BBC-4A78-A363-71ACFEB12D55" type="string" position="1">

<Property name="indextype" value="int"/>

<Value value="3-L" index="1"/>

<Value value="3-S" index="2"/>

</Parameter>

</Rule>

<Rule name="ScaleScore" computationOrder="53"/>

<Rule name="MultipleStrandItemCountScored" computationOrder="133">

<Parameter name="subscales" id="AE57944A-5F49-4849-8744-A0C5A3F3EC10" type="string" position="1">

<Property name="indextype" value="int"/>

<Value value="3-L" index="1"/>

<Value value="3-S" index="2"/>

</Parameter>

</Rule>

</Rules>

</Scoring>

</BlueprintElement>

<BlueprintElement id="2-W" type="claim">

<Scoring>

<Rules>

<Rule name="ItemCount" computationOrder="120"/>

<Rule name="SEBasedPLWithRounding" computationOrder="80">

<Parameter name="seMultiple" id="7B19E304-3863-4F12-9A75-E311DD578EC1" type="double" position="1">

<Value value="1.5"/>

</Parameter>

<Parameter name="proficientPerformanceLevel" id="2EE0DDB3-7AD5-495E-B1CE-72D4C2BB1AAC" type="int" position="2">

<Value value="3"/>

</Parameter>

<Parameter name="LOT" id="4363F62B-647C-4831-B334-DA5A1B5EA596" type="double" position="3">

<Value value="-3.4785"/>

</Parameter>

<Parameter name="HOT" id="8191A641-6455-4AAF-840F-FF13BD6E5747" type="double" position="4">

<Value value="2.514"/>

</Parameter>

</Rule>

<Rule name="RawScore" computationOrder="140"/>

<Rule name="ItemCountScored" computationOrder="130"/>

<Rule name="ScaleScore" computationOrder="50"/>

<Rule name="SBACTheta" computationOrder="40">

<Parameter name="LOT" id="933D98F3-34BC-4957-8FAE-0B66CB0AB41E" type="double" position="1">

<Value value="-3.4785"/>

</Parameter>

<Parameter name="HOT" id="11D307FC-7B83-4ECC-AAF8-C5E1445897C8" type="double" position="2">

<Value value="2.514"/>

</Parameter>

<Parameter name="seLimit" id="E766945F-93FF-4671-B21D-ADCEFDB02AF3" type="double" position="3">

<Value value="2.5"/>

</Parameter>

</Rule>

</Rules>

</Scoring>

<BlueprintElement id="2-W|7-6" type="target">

<BlueprintElement id="2-W|7-6|6.W.1a" type="target"/>

</BlueprintElement>

<BlueprintElement id="2-W|1-6" type="target"/>

<BlueprintElement id="2-W|3-6" type="target"/>

<BlueprintElement id="2-W|8-6" type="target"/>

<BlueprintElement id="2-W|9-6" type="target"/>

</BlueprintElement>

<BlueprintElement id="4-CR" type="claim">

<Scoring>

<Rules>

<Rule name="SEBasedPLWithRounding" computationOrder="81">

<Parameter name="seMultiple" id="7B19E304-3863-4F12-9A75-E311DD578EC1" type="double" position="1">

<Value value="1.5"/>

</Parameter>

<Parameter name="proficientPerformanceLevel" id="2EE0DDB3-7AD5-495E-B1CE-72D4C2BB1AAC" type="int" position="2">

<Value value="3"/>

</Parameter>

<Parameter name="LOT" id="4363F62B-647C-4831-B334-DA5A1B5EA596" type="double" position="3">

<Value value="-3.4785"/>

</Parameter>

<Parameter name="HOT" id="8191A641-6455-4AAF-840F-FF13BD6E5747" type="double" position="4">

<Value value="2.514"/>

</Parameter>

</Rule>

<Rule name="SBACTheta" computationOrder="41">

<Parameter name="LOT" id="933D98F3-34BC-4957-8FAE-0B66CB0AB41E" type="double" position="1">

<Value value="-3.4785"/>

</Parameter>

<Parameter name="HOT" id="11D307FC-7B83-4ECC-AAF8-C5E1445897C8" type="double" position="2">

<Value value="2.514"/>

</Parameter>

<Parameter name="seLimit" id="E766945F-93FF-4671-B21D-ADCEFDB02AF3" type="double" position="3">

<Value value="2.5"/>

</Parameter>

</Rule>

<Rule name="RawScore" computationOrder="141"/>

<Rule name="ItemCount" computationOrder="121"/>

<Rule name="ItemCountScored" computationOrder="131"/>

<Rule name="ScaleScore" computationOrder="51"/>

</Rules>

</Scoring>

<BlueprintElement id="4-CR|3-6" type="target"/>

<BlueprintElement id="4-CR|4-6" type="target">

<BlueprintElement id="4-CR|4-6|6.W.9a" type="target"/>

</BlueprintElement>

<BlueprintElement id="4-CR|2-6" type="target"/>

</BlueprintElement>

<BlueprintElement id="1-IT" type="claim">

<BlueprintElement id="1-IT|10-6" type="target"/>

<BlueprintElement id="1-IT|11-6" type="target"/>

<BlueprintElement id="1-IT|13-6" type="target"/>

<BlueprintElement id="1-IT|14-6" type="target"/>

<BlueprintElement id="1-IT|8-6" type="target"/>

<BlueprintElement id="1-IT|9-6" type="target"/>

</BlueprintElement>

<BlueprintElement id="1-LT" type="claim">

<BlueprintElement id="1-LT|2-6" type="target"/>

<BlueprintElement id="1-LT|3-6" type="target"/>

<BlueprintElement id="1-LT|4-6" type="target"/>

<BlueprintElement id="1-LT|5-6" type="target"/>

<BlueprintElement id="1-LT|6-6" type="target"/>

</BlueprintElement>

<BlueprintElement id="3-L" type="claim">

<BlueprintElement id="3-L|4-6" type="target"/>

</BlueprintElement>

</Blueprint>

<Test id="SBAC-ICA-FIXED-G6E-Perf-ImportanceOfNutrition" label="Grade 06 ELA Performance Task - Multivitamins (ICA)">

<Grades>

<Grade value="6" label="grade 6"/>

</Grades>

<Segments>

<Segment position="1" id="SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionA-ELA-6" label="(SBAC)SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionA-ELA-6-Winter-2017-2018" algorithmType="fixedform" algorithmImplementation="AIR FIXEDFORM1">

<SegmentBlueprint>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="4-CR" minExamItems="0" maxExamItems="3"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="4-CR|3-6" minExamItems="0" maxExamItems="3"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="4-CR|4-6" minExamItems="0" maxExamItems="3"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="4-CR|4-6|6.W.9a" minExamItems="0" maxExamItems="3"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionA-ELA-6" minExamItems="2" maxExamItems="2">

<ItemSelection>

<Property name="slope" value="85.8"/>

<Property name="intercept" value="2508.2"/>

</ItemSelection>

</SegmentBlueprintElement>

</SegmentBlueprint>

<SegmentForms>

<SegmentForm id="ELA ICA Perf G6a 2018 ENG" cohort="Default">

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

<ItemGroup maxItems="ALL" maxResponses="ALL" id="1888">

<Stimulus id="1888"/>

<Item active="true" fieldTest="false" administrationRequired="false" responseRequired="false" handScored="true" doNotScore="false" id="56557" type="SA">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionA-ELA-6"/>

<BlueprintReference idRef="4-CR"/>

<BlueprintReference idRef="4-CR|4-6"/>

<BlueprintReference idRef="4-CR|4-6|6.W.9a"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRTGPC" scorePoints="2" weight="1.0">

<ItemScoreParameter value="0.8193399906158447" measurementParameter="a"/>

<ItemScoreParameter value="1.0485199689865112" measurementParameter="b0"/>

<ItemScoreParameter value="1.427780032157898" measurementParameter="b1"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

<Item active="true" fieldTest="false" administrationRequired="false" responseRequired="false" handScored="true" doNotScore="false" id="70064" type="SA">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionA-ELA-6"/>

<BlueprintReference idRef="4-CR"/>

<BlueprintReference idRef="4-CR|3-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRTGPC" scorePoints="2" weight="1.0">

<ItemScoreParameter value="0.7540599703788757" measurementParameter="a"/>

<ItemScoreParameter value="1.7290899753570557" measurementParameter="b0"/>

<ItemScoreParameter value="1.7190500497817993" measurementParameter="b1"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

</ItemGroup>

</SegmentForm>

</SegmentForms>

</Segment>

<Segment position="2" id="SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionB-ELA-6" label="(SBAC)SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionB-ELA-6-Winter-2017-2018" algorithmType="fixedform" algorithmImplementation="AIR FIXEDFORM1">

<SegmentBlueprint>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="2-W" minExamItems="0" maxExamItems="1"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="2-W|7-6" minExamItems="0" maxExamItems="1"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="2-W|7-6|6.W.1a" minExamItems="0" maxExamItems="1"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionB-ELA-6" minExamItems="1" maxExamItems="1">

<ItemSelection>

<Property name="slope" value="85.8"/>

<Property name="intercept" value="2508.2"/>

</ItemSelection>

</SegmentBlueprintElement>

</SegmentBlueprint>

<SegmentForms>

<SegmentForm id="ELA ICA Perf G6b 2018 ENG" cohort="Default">

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

<ItemGroup maxItems="ALL" maxResponses="ALL" id="1888">

<Stimulus id="1888"/>

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<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-Perf-ImportanceofNutritionB-ELA-6"/>

<BlueprintReference idRef="2-W"/>

<BlueprintReference idRef="2-W|7-6"/>

<BlueprintReference idRef="2-W|7-6|6.W.1a"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRTGPC" scorePoints="2" weight="1.0" dimension="C">

<ItemScoreParameter value="1.2113800048828125" measurementParameter="a"/>

<ItemScoreParameter value="-0.6540700197219849" measurementParameter="b0"/>

<ItemScoreParameter value="0.11836999654769897" measurementParameter="b1"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

</ItemGroup>

</SegmentForm>

</SegmentForms>

</Segment>

</Segments>

</Test>

<Test id="SBAC-ICA-FIXED-G6E-ELA-6" label="Grade 06 ELA Interim Test (ICA)">

<Grades>

<Grade value="6" label="grade 6"/>

</Grades>

<Segments>

<Segment position="1" id="SBAC-ICA-FIXED-G6E-ELA-6" label="(SBAC)SBAC-ICA-FIXED-G6E-ELA-6-Winter-2017-2018" algorithmType="fixedform" algorithmImplementation="AIR FIXEDFORM1">

<SegmentBlueprint>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-IT" minExamItems="0" maxExamItems="45"/>

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<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="2-W" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="3-L" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="4-CR" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-IT|10-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-IT|11-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-IT|13-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-IT|14-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-IT|8-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-IT|9-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-LT|2-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-LT|3-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-LT|4-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="1-LT|5-6" minExamItems="0" maxExamItems="45"/>

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<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="2-W|1-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="2-W|3-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="2-W|8-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="2-W|9-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="3-L|4-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="4-CR|2-6" minExamItems="0" maxExamItems="45"/>

<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="4-CR|3-6" minExamItems="0" maxExamItems="45"/>

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<SegmentBlueprintElement minFieldTestItems="0" maxFieldTestItems="0" idRef="SBAC-ICA-FIXED-G6E-ELA-6" minExamItems="45" maxExamItems="45">

<ItemSelection>

<Property name="slope" value="85.8"/>

<Property name="intercept" value="2508.2"/>

</ItemSelection>

</SegmentBlueprintElement>

</SegmentBlueprint>

<SegmentForms>

<SegmentForm id="ELA ICA G6 2018 ENG" cohort="Default">

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

<ItemGroup maxItems="ALL" maxResponses="0" id="46849">

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<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="2-W"/>

<BlueprintReference idRef="2-W|8-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.922950029373169" measurementParameter="a"/>

<ItemScoreParameter value="-1.927109956741333" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

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<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="4-CR"/>

<BlueprintReference idRef="4-CR|2-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.6435199975967407" measurementParameter="a"/>

<ItemScoreParameter value="-0.49959999322891235" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

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<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="2-W"/>

<BlueprintReference idRef="2-W|9-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.6062399744987488" measurementParameter="a"/>

<ItemScoreParameter value="-1.8554500341415405" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

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<ItemGroup maxItems="ALL" maxResponses="ALL" id="1175">

<Stimulus id="1175"/>

<Item active="true" fieldTest="false" administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" id="37113" type="HTQ">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="1-IT"/>

<BlueprintReference idRef="1-IT|8-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.711899995803833" measurementParameter="a"/>

<ItemScoreParameter value="-0.4957300126552582" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

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<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="1-IT"/>

<BlueprintReference idRef="1-IT|9-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.9812300205230713" measurementParameter="a"/>

<ItemScoreParameter value="-0.20586000382900238" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

<Item active="true" fieldTest="false" administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" id="58821" type="MC">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="1-IT"/>

<BlueprintReference idRef="1-IT|14-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.5145599842071533" measurementParameter="a"/>

<ItemScoreParameter value="0.3761399984359741" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

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<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="1-IT"/>

<BlueprintReference idRef="1-IT|10-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.42048999667167664" measurementParameter="a"/>

<ItemScoreParameter value="1.1564899682998657" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

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<Presentations>

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</BlueprintReferences>

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<Presentations>

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<Presentations>

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</ItemScoreDimension>

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<Presentations>

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<Presentations>

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<Presentations>

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</BlueprintReferences>

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</ItemScoreDimension>

<Presentations>

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<ItemScoreParameter value="2.6856300830841064" measurementParameter="b1"/>

</ItemScoreDimension>

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<Presentations>

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</BlueprintReferences>

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<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

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</Presentations>

</Item>

<Item active="true" fieldTest="false" administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" id="36963" type="MC">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="1-IT"/>

<BlueprintReference idRef="1-IT|13-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.4841800034046173" measurementParameter="a"/>

<ItemScoreParameter value="0.09876000136137009" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

</ItemGroup>

<ItemGroup maxItems="ALL" maxResponses="0" id="33244">

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<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="2-W"/>

<BlueprintReference idRef="2-W|1-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRTGPC" scorePoints="2" weight="1.0">

<ItemScoreParameter value="0.7210100293159485" measurementParameter="a"/>

<ItemScoreParameter value="0.385670006275177" measurementParameter="b0"/>

<ItemScoreParameter value="1.8433899879455566" measurementParameter="b1"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

</ItemGroup>

<ItemGroup maxItems="ALL" maxResponses="0" id="30973">

<Item active="true" fieldTest="false" administrationRequired="true" responseRequired="true" handScored="false" doNotScore="false" id="30973" type="HTQ">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="4-CR"/>

<BlueprintReference idRef="4-CR|4-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.9556999802589417" measurementParameter="a"/>

<ItemScoreParameter value="0.7146700024604797" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

</ItemGroup>

<ItemGroup maxItems="ALL" maxResponses="0" id="52424">

<Item active="true" fieldTest="false" administrationRequired="true" responseRequired="true" handScored="false" doNotScore="false" id="52424" type="MS">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="2-W"/>

<BlueprintReference idRef="2-W|8-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.3297500014305115" measurementParameter="a"/>

<ItemScoreParameter value="2.460439920425415" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

</ItemGroup>

<ItemGroup maxItems="ALL" maxResponses="ALL" id="1181">

<Stimulus id="1181"/>

<Item active="true" fieldTest="false" administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" id="37243" type="HTQ">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="1-IT"/>

<BlueprintReference idRef="1-IT|10-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.45598000288009644" measurementParameter="a"/>

<ItemScoreParameter value="-0.5648000240325928" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

<Item active="true" fieldTest="false" administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" id="37241" type="MC">

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<BlueprintReference idRef="1-IT"/>

<BlueprintReference idRef="1-IT|9-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.4042699933052063" measurementParameter="a"/>

<ItemScoreParameter value="1.1329100131988525" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

<Item active="true" fieldTest="false" administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" id="37245" type="EBSR">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="1-IT"/>

<BlueprintReference idRef="1-IT|11-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.447050005197525" measurementParameter="a"/>

<ItemScoreParameter value="1.0210000276565552" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

<Item active="true" fieldTest="false" administrationRequired="false" responseRequired="false" handScored="false" doNotScore="false" id="37251" type="MS">

<BlueprintReferences>

<BlueprintReference idRef="SBAC-ICA-FIXED-G6E-ELA-6"/>

<BlueprintReference idRef="1-IT"/>

<BlueprintReference idRef="1-IT|14-6"/>

</BlueprintReferences>

<ItemScoreDimension measurementModel="IRT3PLn" scorePoints="1" weight="1.0">

<ItemScoreParameter value="0.6685199737548828" measurementParameter="a"/>

<ItemScoreParameter value="1.3832900524139404" measurementParameter="b"/>

<ItemScoreParameter value="0.0" measurementParameter="c"/>

</ItemScoreDimension>

<Presentations>

<Presentation label="Braille" code="ENU-Braille"/>

<Presentation label="English" code="ENU"/>

</Presentations>

</Item>

</ItemGroup>

</SegmentForm>

</SegmentForms>

</Segment>

</Segments>

</Test>

</TestPackage>

### Enhanced Test Administration XSD File

Below is the Enhanced Adminstration Package Format XSD file:

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

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"

xmlns:vc="http://www.w3.org/2007/XMLSchema-versioning" elementFormDefault="qualified"

vc:minVersion="1.1">

<xs:element name="TestPackage">

<xs:annotation>

<xs:documentation><![CDATA[

The root element of the test package. The <TestPackage> element contains an optional <Scoring> element (for test packages that contain COMBINED scoring data, such as ICA assessments).

]]>

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element name="Blueprint">

<xs:annotation>

<xs:documentation>The assessment-level Blueprint element contains the following attributes:

- minExamItems/maxExamItems: the minimum and maximum operational items to administer for this assessment

- minFieldTestItems/maxFieldTestItems: the minimum and maximum field test items to administer for this assessment

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" ref="BlueprintElement"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element maxOccurs="unbounded" ref="Test">

<xs:annotation>

<xs:documentation>The Assessment node contains the following attributes:

key: The assessment key

id: The assessment id

publisher: The publisher of the test package, also referred to as the "client name"

publishDate: The creation/publish date of the test package

label: A human-readable label to be displayed in the student and proctor application

subject: The subject of the assessment (e.g., "ELA", "MATH", "Student Help")

type: The test type of the assessment (e.g., "interim", "summative")

version: The version of the test specification

bankKey: The item bank key for all forms and items, typically a 3-digit integer value (e.g., "187", "200")

subType: (OPTIONAL) A subtype classification of the exam (e.g., "ICA", "IAB")

</xs:documentation>

</xs:annotation>

</xs:element>

</xs:sequence>

<xs:attribute name="bankKey" type="xs:int" use="required"/>

<xs:attribute name="publisher" type="xs:token" use="required"/>

<xs:attribute name="publishDate" type="xs:dateTime" use="required"/>

<xs:attribute name="subject" type="xs:token" use="required"/>

<xs:attribute name="type" type="xs:token" use="required"/>

<xs:attribute name="version" type="xs:decimal" use="required"/>

<xs:attribute name="academicYear" type="xs:token" use="required"/>

<xs:attribute name="subType" type="xs:token"/>

</xs:complexType>

<xs:unique name="UniqueBlueprintElementKey">

<xs:selector xpath=".//BlueprintElement"/>

<xs:field xpath="@id"/>

</xs:unique>

<xs:key name="BlueprintElementKey">

<xs:selector xpath=".//BlueprintElement"/>

<xs:field id="blueprintid" xpath="@id"/>

</xs:key>

<xs:keyref name="BlueprintRefKey" refer="BlueprintElementKey">

<xs:selector xpath=".//BlueprintReference"/>

<xs:field xpath="@idRef"/>

</xs:keyref>

<xs:keyref name="SegmentBlueprintRefKey" refer="BlueprintElementKey">

<xs:selector xpath=".//SegmentBlueprintElement"/>

<xs:field xpath="@idRef"/>

</xs:keyref>

</xs:element>

<xs:element name="Test">

<xs:complexType>

<xs:all>

<xs:element name="Grades">

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="Grade">

<xs:annotation>

<xs:documentation>The Grade element contains the following attributes:

value: The grade code/integer value for the grade (e.g., "KR", "1", "12")

label: The human readable label of the grade (e.g., "Kindergarden", "Grade 12")

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:attribute name="value" type="xs:token" use="required"/>

<xs:attribute name="label" type="xs:token"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="Segments">

<xs:complexType>

<xs:sequence>

<xs:element name="Segment" maxOccurs="unbounded">

<xs:annotation>

<xs:documentation>Every Assessment must contain one or more segments (an "unsegmented" assessment is actually a single-segment assessment).

A segment defines a partition of a test wherein various presentational aspects may be controlled (such as isolating calculator

items from non-calculator items)

The Segment node contains the following attributes:

key: The segment key

id: The segment id

position: The position of the segment in the assessment (1-based)

label: (OPTIONAL) A human-readable label to be displayed in the student and proctor application - if no label is provided, the segment key will be used.

entryApproval/exitApproval: (OPTIONAL) A flag indicating that a student will require approval to enter or exit the segment

The Segment contains the following sub-elements:

- Blueprint: The segment blueprint constraints for selecting items, each references an assessment-level BlueprintElement

The Segment Blueprint is optional for fixed form segments, but required for adaptive segments

- One of the folowing, depending on the item selection type:

Pool - The segment pool of items, for adaptive segments

Forms - A list of forms for the segment, for fixed-form assessments

- ItemSelector: the method for selecting items for the segment (e.g. "fixedform", "adaptive")

- Tools: A list of universal tools, accommodations, and designated supports along with various options and dependency rules

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element name="SegmentBlueprint" minOccurs="0">

<xs:annotation>

<xs:documentation>A segment-level Blueprint that defines item selection rules for adaptive segments

ATTRIBUTES:

- minExamItems/maxExamItems: the minimum and maximum operational items to administer from this blueprint category

- minFieldTestItems/maxFieldTestItems: (OPTIONAL) the minimum and maximum field test items to administer - default to "0"

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="SegmentBlueprintElement">

<xs:annotation>

<xs:documentation>BlueprintElement

ATTRIBUTES:

- refId: The id of the assessment-level blueprint element reference

- minExamItems/maxExamItems: the minimum and maximum operational items to administer from this segment

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element minOccurs="0" name="ItemSelection">

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" minOccurs="1" name="Property">

<xs:complexType>

<xs:attribute name="name" type="xs:token" use="required"/>

<xs:attribute name="value" type="xs:token" use="required"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute name="idRef" type="xs:token" use="required"/>

<xs:attribute name="minExamItems" type="xs:int" use="required"/>

<xs:attribute name="maxExamItems" type="xs:int" use="required"/>

<xs:attribute default="0" name="minFieldTestItems" type="xs:int"/>

<xs:attribute default="0" name="maxFieldTestItems" type="xs:int"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:choice>

<xs:element name="Pool">

<xs:annotation>

<xs:documentation>The Segment's Pool - A list of items/itemgroups that is specific for adaptive segments.

A pool containing items that can be selected for a segment, based on adaptive algorithm calculations,

min/max item constraits at the strand, contentlevel, segment, or assessment levels.

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" ref="ItemGroup" />

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="SegmentForms">

<xs:annotation>

<xs:documentation>The forms available form selection for this assessment (typically based on subject and the form cohort),

at least one form is required per-segment, for fixed-form segments.

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="SegmentForm">

<xs:annotation>

<xs:documentation>Segment-level form definition. (Only required when segments use the 'fixed form' item selection algorithm)

This is used by the test registration/administration module to pre-assign specific forms to examinees.

It also is used to establish the defined and finite set of cohorts to which every segment fixed form must belong.

ATTRIBUTES:

name: The form name/identifier

cohort: A string used to link forms of different segments.

Example: The Assessment containts two Segments, each with two possibles forms about music:

SEGMENT 1:

Form 1 has an id of "Music1-HM" and a cohort of "Heavy Metal"

Form 2 has an id of "Music1-J" and a cohort of "Jazz"

SEGMENT 2:

Form 3 has an id of "Music2-HM" and a cohort of "Heavy Metal"

Form 4 has an id of "Music2-J" and a cohort of "Jazz"

If "Music1-HM" is selected for the examinee's first segment, then the linked cohort will ensure that Form 3 is ALWAYS selected for the second segment.

Likewise, if Form 2 is selected for the first segment, Form 4 will always follow in the second segment.

SUBELEMENTS:

- Languages: A list of language codes (e.g., "ENU", "ESN") that are compatible with this form. Typically, this list contains a single language,

but may contain more than one language with the identical set of ItemGroups. The test delivery system will treat these form/language combinations as individual forms internally

- ItemGroups: One or more groups of items (containg one or more items and potentially a stimuli) that make up the items in the form

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element ref="Presentations"/>

<xs:element maxOccurs="unbounded" ref="ItemGroup"

/>

</xs:sequence>

<xs:attribute name="id" type="xs:token"

use="required"/>

<xs:attribute default="Default" name="cohort"

type="xs:token" use="optional"/>

</xs:complexType>

<xs:unique name="UniqueItemGroupPositionInFormKey">

<xs:selector xpath="./ItemGroup"/>

<xs:field xpath="@position"/>

</xs:unique>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:choice>

<xs:element minOccurs="0" ref="Tools"/>

</xs:sequence>

<xs:attribute name="id" type="xs:token" use="required"/>

<xs:attribute name="algorithmType" type="xs:token" use="required"/>

<xs:attribute name="algorithmImplementation" type="xs:token" use="required"/>

<xs:attribute name="position" type="xs:short" use="optional" default="1"/>

<xs:attribute name="label" type="xs:token"/>

<xs:attribute default="false" name="entryApproval" type="xs:boolean"/>

<xs:attribute default="false" name="exitApproval" type="xs:boolean"/>

</xs:complexType>

<xs:unique name="SegmentPositionUniqueKey">

<xs:selector xpath=".//Segment"/>

<xs:field xpath="@position"/>

</xs:unique>

<xs:unique name="SegmentKeyUniqueKey">

<xs:selector xpath=".//Segment"/>

<xs:field xpath="@key"/>

</xs:unique>

<xs:unique name="SegmentIdUniqueKey">

<xs:selector xpath=".//Segment"/>

<xs:field xpath="@id"/>

</xs:unique>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element ref="Tools" minOccurs="0"/>

</xs:all>

<xs:attribute name="id" type="xs:token" use="required"/>

<xs:attribute name="label" type="xs:token" use="required"/>

</xs:complexType>

</xs:element>

<xs:element name="Tools">

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="Tool">

<xs:annotation>

<xs:documentation>A "Tool" is a general term for any universal tools, designated supports, or accommodations.

Each Tool respresents a type of tool, such as "Zoom", "American Sign Language", "Masking", and "Calculator" and

contains a list of its possible options and dependency rules. Tools can be defined at the assessment-level as well as the segment-level

ATTRIBUTES:

name: The tool type "name". This is the string identifying the tool type. The tool type name may contain spaces.

studentPackageFieldName: The name/identifier of the tool/accommodation/designated supports used by ART.

allowChange: A flag indicating whether or not the tool can be changed by the proctor when a student is waiting

for approval to enter an assessment or segment

required: A flag indicating whether or not an tool selection is required for this type of tool

sortOrder: An optional ordering of the type (ascending)

disableOnGuest: A flag indicating whether or not an accommodation should be disabled for guest students

SUBELEMENTS:

The Options for the Tool

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:all>

<xs:element name="Options">

<xs:annotation>

<xs:documentation>A list of two or more Options for the given Tool. Typically, a tool will have at the very least an "ON" or "OFF" option

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="Option">

<xs:annotation>

<xs:documentation>An Option for a Tool. For some tools, the list of Options should contain at least two elements - an "ON" and an "OFF" Option.

ATTRIBUTES:

- code: The ISAAP code corresponding to the Tool Option

- sortOrder: The order in which the option should be displayed in the selection dropdown

- default: Whether or not the option should be the default Option. A tool cannot have more than one default option

SUBELEMENTS:

- Dependencies: (OPTIONAL) A list of one or more dependencies indicating whether an Option(s) should be enabled based on other Tool selections

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element name="Dependencies" minOccurs="0">

<xs:annotation>

<xs:documentation>(OPTIONAL) A list of one or more dependencies indicating whether an Option(s)

should be enabled based on other Tool selections

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="Dependency">

<xs:annotation>

<xs:documentation><![CDATA[

A Dependency defines a rule for when a specific Tool Option should be enabled or available to an examinee.

ATTRIBUTES:

- ifToolType: The conditional tool type of the rule

- ifToolCode: The conditional tool code (option) of the rule

- enabled: (OPTIONAL, default TRUE) - Indicated whether the option should be ENABLED or DISABLED

- default: Whether or not the option should now be marked as the default option, if the Dependency condition is true

The Dependency can be read as:

if <ifToolType> is <ifToolCode>, then the option is enabled (or disabled)

e.g., "IF <Language> IS <ENU>, THEN <'Emboss' option should be disabled>"

]]>

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:attribute name="ifToolType" type="xs:token" use="required"/>

<xs:attribute name="ifToolCode" type="xs:token" use="required"/>

<xs:attribute default="false" name="default" type="xs:boolean"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute name="code" type="xs:token" use="required"/>

<xs:attribute name="sortOrder" type="xs:int" use="required"/>

<xs:attribute default="false" name="default" type="xs:boolean"/>

<xs:attribute name="label" type="xs:token"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

<xs:unique name="UniqueToolPosition">

<xs:selector xpath=".//Option"/>

<xs:field xpath="@sortOrder"/>

</xs:unique>

</xs:element>

</xs:all>

<xs:attribute name="name" type="xs:token" use="required"/>

<xs:attribute name="studentPackageFieldName" type="xs:token"/>

<xs:attribute default="true" name="allowChange" type="xs:boolean"/>

<xs:attribute default="false" name="required" type="xs:boolean"/>

<xs:attribute default="0" name="sortOrder" type="xs:int"/>

<xs:attribute default="false" name="disableOnGuest" type="xs:boolean"/>

<xs:attribute name="type" type="xs:token"/>

<xs:attribute default="false" name="allowMultiple" type="xs:boolean"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="ItemGroup">

<xs:annotation>

<xs:documentation>A collection of items and passages that are selected and administered as an atomic unit.

It is not necessarily the case that every item in an itemgroup will be administered every time.

Beside the fact that an item may be inactive, other forces include item filtering due to examinee accommodations,

itemgroup pruning by an adaptive algorithm to avoid violating test constraints, etc.

ATTRIBUTES:

- maxResponses: the maximum number of responses an examinee is required to provide. 'ALL' means every item

administered must be responded to.

- maxItems: for adaptive segments only, the maximum number of items to administer from this group.

maxitems is useful for developing an excess of items to cover various ability levels,

for example, and allowing the adaptive algorithm to choose among them as the situation indicates

(maxitems may be used in future hybrid fixed-form/adaptive algorithms where, for example, the adaptive algorithm

keeps track of the examinee's ability estimate and selects 'maxitems' from the group accordingly)

SUBELEMENTS:

- An (optional) stimuli associated with the item group

- One or more Items associated with the ItemGroup

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element minOccurs="0" name="Stimulus">

<xs:annotation>

<xs:documentation>The stimuli of the item group, also known as the "passage". An item group may not necessarily contain a stimuli,

such as in case where the item group is a singular, self-contained item.

ATTRIBUTES:

- id: The stimuli identifier, also referred to as the "passage key". This is an integer value (e.g., 187-<b>1234</b>)

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:attribute name="id" type="xs:token" use="required"/>

</xs:complexType>

</xs:element>

<xs:element maxOccurs="unbounded" name="Item">

<xs:annotation>

<xs:documentation>An Item within an ItemGroup

ATTRIBUTES:

- id: The item identifier - an integer. For the item id "2112" and bank key "187", the full item key would be "187-2112"

- position: (Optional) The item's relative position within its group (1-based). Position should be honored by the item renderer.

The default positional value is "1", but the item positions must be unique (and sequential) within the ItemGroup

- fieldTest: (OPTIONAL, default false) A flag indicating whether or not the item is a field test item

- administrationRequired: (OPTIONAL, default true) If true, the (adaptive) itemselector MUST administer

this item (it may not be pruned to meet the itemgroup's 'maxitems' constraint)

- responseRequired: If true, the examinee must respond to this item, if administered

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:all>

<xs:element ref="Presentations"/>

<xs:element name="BlueprintReferences">

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="BlueprintReference">

<xs:annotation>

<xs:documentation>A reference to a blueprint element. At least one BlueprintElement reference is required for each item

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:attribute name="idRef" type="xs:token" use="required"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="ItemScoreDimension">

<xs:annotation>

<xs:documentation>A dimension along which an item may be scored.

ATTRIBUTES:

- measurementmodel: e.g. IRT3PL, IRTPCL (must be recognizable by the test scoring engine; simulator may also need this info)

- scorepoints: Maximum number of points an examinee may received for this item

- dimension: An item may have scores on multiple dimensions, each with its own scales and rules. Typically, however, there is a single dimension

- weight: Where an item is scored separately on multiple dimensions, a composite score may be computed from a weighted combination of the dimension scores

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="ItemScoreParameter" minOccurs="0">

<xs:annotation>

<xs:documentation>A parameter within a dimension. e.g. for IRT3pl there are 3 parameters, named a, b, and c.

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:attribute name="measurementParameter" type="xs:token" use="required"/>

<xs:attribute name="value" type="xs:float" use="required"/>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute name="measurementModel" type="xs:token" use="required"/>

<xs:attribute name="scorePoints" type="xs:int" use="required"/>

<xs:attribute name="weight" type="xs:float" use="required"/>

<xs:attribute name="dimension" type="xs:token"/>

</xs:complexType>

</xs:element>

<xs:element name="TeacherHandScoring" minOccurs="0">

<xs:annotation>

<xs:documentation>Teacher Hand Scoring System configuration. Reference https://github.com/SmarterApp/TDS\_TeacherHandScoringSystem

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence minOccurs="0">

<xs:element name="Dimensions" type="xs:string" />

</xs:sequence>

<xs:attribute name="exemplar" type="xs:token"/>

<xs:attribute name="trainingGuide" type="xs:token"/>

<xs:attribute default="WAI" name="layout" type="xs:token"/>

<xs:attribute name="description" type="xs:token" use="required"/>

<xs:attribute name="passage" type="xs:token"/>

<xs:attribute name="itemname" type="xs:token"/>

</xs:complexType>

</xs:element>

</xs:all>

<xs:attribute name="id" type="xs:token" use="required"/>

<xs:attribute name="type" type="xs:token" use="required"/>

<xs:attribute default="false" name="fieldTest" type="xs:boolean"/>

<xs:attribute default="true" name="administrationRequired" type="xs:boolean"/>

<xs:attribute default="true" name="active" type="xs:boolean"/>

<xs:attribute default="true" name="responseRequired" type="xs:boolean"/>

<xs:attribute default="false" name="handScored" type="xs:boolean"/>

<xs:attribute default="false" name="doNotScore" type="xs:boolean"/>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute name="id" type="xs:token" use="required"/>

<xs:attribute default="ALL" name="maxItems" type="xs:token"/>

<xs:attribute default="ALL" name="maxResponses" type="xs:token"/>

</xs:complexType>

<xs:unique name="ItemPositionUniqueKey">

<xs:selector xpath="./Item"/>

<xs:field xpath="@position"/>

</xs:unique>

</xs:element>

<xs:element name="BlueprintElement">

<xs:annotation>

<xs:documentation>Each element or component of a blueprint must have a corresponding BlueprintElement.

A BlueprintElement identifies a set of items for one or both of the following purposes:

Creating a test 'form' adaptively,

Scoring a test.

In addition to a subject's taxonomy of content standards, the following are also BlueprintElements:

The test itself (for establishing scoring and reporting features)

Every test segment (for item selection and administration)

Depth of Knowledge categories

Other (arbitrary) sets of items (may be useful for ad hoc identification of sets)

Depth of Knowledge and other arbitrary sets of items are lumped into one object type called an 'AffinityGroup'.

This is also used for the SBAC Content Standards Repository object called 'SOCK', an acronym for 'Some Other Category of Knowledge'

ATTRIBUTES:

- id: The id of the blueprint element

- type: an arbitrary designation, usually from some aspect of a taxonomy defining the subject-area. (e.g., "strand", "contentlevel")

Other elementtypes exist outside of the taxonomy

- parentId: the id of another bpelement, segment, or assessment, generally within the taxonomy.

Since a BlueprintElement may have at most one parent, at most hierarchies may be expressed.

- minExamItems/maxExamItems: the minimum and maximum operational items to administer from this blueprint category

- minFieldTestItems/maxFieldTestItems: (OPTIONAL) the minimum and maximum field test items to administer - default to "0"

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element minOccurs="0" name="Scoring">

<xs:complexType>

<xs:sequence>

<xs:element name="PerformanceLevels" minOccurs="0">

<xs:annotation>

<xs:documentation/>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="PerformanceLevel">

<xs:annotation>

<xs:documentation>Cutscore that determines a coarse-grained level of skill-attainment.

Performance levels are part of scoring and reporting.

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:attribute name="pLevel" type="xs:int" use="required"/>

<xs:attribute name="scaledLo" type="xs:float" use="required"/>

<xs:attribute name="scaledHi" type="xs:float" use="required"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="Rules">

<xs:annotation>

<xs:documentation>Configurations for scoring the test, consisting of

- rules for computation

- score cut points for determining performance levels

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="Rule">

<xs:annotation>

<xs:documentation>A rule for computing a score element, such as

- overall theta or scaled score

- strand score

- benchmark score

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="Parameter" minOccurs="0">

<xs:annotation>

<xs:documentation>A parameter for a computation rule

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="Property" minOccurs="0">

<xs:complexType>

<xs:attribute name="name" type="xs:token" use="required"/>

<xs:attribute name="value" type="xs:token" use="required"/>

</xs:complexType>

</xs:element>

<xs:element maxOccurs="unbounded" name="Value">

<xs:complexType>

<xs:attribute name="index" type="xs:token"/>

<xs:attribute name="value" type="xs:token" use="required"/>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute name="id" type="xs:token" use="required"/>

<xs:attribute name="type" type="xs:token" use="required"/>

<xs:attribute name="position" type="xs:int" use="required"/>

<xs:attribute name="name" type="xs:token"/>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute name="computationOrder" type="xs:int"/>

<xs:attribute name="name" type="xs:token" use="required"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element maxOccurs="unbounded" minOccurs="0" ref="BlueprintElement"/>

</xs:sequence>

<xs:attribute name="id" type="xs:token" use="required"/>

<xs:attribute name="type" type="xs:token" use="required"/>

<xs:attribute name="level" type="xs:token"/>

<xs:attribute name="label" type="xs:token"/>

<xs:attribute name="description" type="xs:token"/>

</xs:complexType>

</xs:element>

<xs:element name="Presentations">

<xs:annotation>

<xs:documentation>The list of presentations/languages (codes) compatible with the given item or form. For fixed form item selection,

an item MUST contain the language of the form it belongs to in order to be compatible.

</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:sequence>

<xs:element maxOccurs="unbounded" name="Presentation">

<xs:complexType>

<xs:attribute name="code" type="xs:token" use="required"/>

<xs:attribute name="label" type="xs:token"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:schema>