SMARTERAPP SPECIFICATION

for

REPORTING TEST PACKAGE FORMAT

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Updated

7 June 2016

Revision History

Version	Revision Description	Author/Modifier	Date
1.0	Initial Release	Jeff Treuting (Fairway)	June 7, 2016

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Purpose

The purpose of this document is to provide a format specification describing the Reporting Test Package for the Test Delivery System (TDS). This package was originally intended for use in the Dataware and Reporting application; however, the Reporting application defined a custom configuration file format.

Package Usage

This package is not currently being used.

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* and node *attributes* are in lowercase.
- **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.

Reporting Test Package Format Specification

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Acceptable Values	Data Type
testspecification		testspecification					
	purpose		15	Always	Defines the purpose of this test package which can be administration, registration, scoring and reporting.	reporting	xsd:token
	publisher		50	Always	The publisher of this package	One or more printable ASCII characters	xsd:token
	publishdate		30	Always	The date this package was published	String representation of a date and time. For example: Aug 19 2015 3:43PM	xsd:dateTime
	version		10	Always	The version of this test specification package	Integer	xsd:token
identifier		testspecification:identifier					
	uniqueid		250	Always	Unique test key	One or more printable ASCII characters	xsd:token
	name		200	Always	Test name	One or more printable ASCII characters	xsd:token
	labl		200	Always	Test label	One or more printable ASCII characters	xsd:token
	version		10	Always	Test version	Integer	xsd:integer
property		testspecification:property					
	name		200	Always	Defines a property for this test. This is where the grade, subject and test type are defined.	One or more printable ASCII characters Required properties include: grade, subject, type	xsd:token

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Acceptable Values	Data Type
	value		200	Always	The value for a particular property	One or more printable ASCII characters The subject property can be ELA, MATH or Student Help. The type property can be iterim or summative.	xsd:token
	label		200	Always	The display label for this property	One or more printable ASCII characters	xsd:token
reporting		testspecification:reporting					
testblueprint		testspecification:reporting:testblueprint					
bplement		testspecification:reporting:testblueprint:bplement					
	elementtype		100	Always	The type of blueprint element	test, segment, strand, contentlevel	xsd:token
	parentid		150	Optional	Defines this blueprint element as a child of a parent element. References testspecification:administration:testblueprint:bplement:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
	minopitems		4	Always	Minimum number of operational items the adaptive algorithm will include.	0 <= Integer <= maxopitems NOTE: All child element values must work with the parent values. Meaning if the child elements each have a minimum value of 2, then the parent element must have a maximum value >= 4 in order to satisfy all conditions.	xsd:integer
	maxopitems		4	Always	Maximum number of operational items the adaptive algorihm will include.	1 <= Integer >= minopitems NOTE: All child element values must work with the parent values. Meaning if the child elements each have a minimum value of 2, then the parent element must have a maximum value >= 4 in order to satisfy all conditions.	xsd:ineger

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Accepable Values	Data Type
	minftitems		4	Optional	Minimum number of field test items the adaptive algorithm will include. Defaults to 0 if not provided.	0 <= Integer <= maxftitems NOTE: All child element values must work with the parent values. Meaning if the child elements each have a minimum value of 2, then the parent element must have a maximum value >= 4 in order to satisfy all conditions.	xsd:integer
	maxftitems		4	Optional	Maximum number of field test items the adaptive algorithm will include. Defaults to 0 if not provided.	0 <= Integer >= minftitems NOTE: All child element values must work with the parent values. Meaning if the child elements each have a minimum value of 2, then the parent element must have a maximum value >= 4 in order to satisfy all conditions.	xsd:integer
	opitemcount		4	Always	The number of operational items that belong to this group (strand or content level).	Integer > 0	xsd:integer
	ftitemcount		4	Always	The number of filed test items that belong to this group (strand or content level).	Integer > 0	xsd:integer
identifier		testspecification:reporting:testblueprint:bplement:identifier					
	uniqueid		150	Always	Identifier for the specific element type	One or more printable ASCII characters	xsd:token
	name		200	Always		One or more printable ASCII characters	xsd:token
	version		10	Always		Integer	xsd:integer
performancelevels		testspecification:reporting:performancelevels			Sets the performance level groups		
performancelevel		testspecification:reporting:performancelevels:performancelevel			One or more performance levels		

Category / Node (XML Element)	Field Name (attribute)	XML Hierarchy	Width (chars)	Required	Data Element Description	Accepable Values	Data Type
	bpelementid		150	Always	Blueprint reference. Refers to testspecification:scoring:testblueprint:bpelement:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
	plevel		10	Always	The performance level group	Integer >= 1	xsd:integer
	scaledlo		30	Always	Low score to include in this performance level	Float	xsd:float
	scaledhi		30	Always	High score to include in this performance level	Float	xsd:float
reportingmeasures		testspecification:reporting:reportingmeasures					
reportingmeasure		testspecification:reporting:reportingmeasures:reportingmeasure			Multiple reporting measures		
	bpelementid				Blueprint reference. Refers to testspecification:scoring:testblueprint:bpelement:identifier[@uniqueid]	One or more printable ASCII characters	xsd:token
scoretype		testspecification:reporting:reportingmeasures:reportingmeasure:scoretype			Multiple score types for his reporting measure		
	scorename		150	Always	Name of the score type	One or more printable ASCII characters	xsd:token
	scorelabel		150	Always	Display label of the score type	One or more printable ASCII characters	xsd:token

Sample XML Output

Multiple examples can be found in the Implementation Readiness Package (IRP) found here:
ftp://ftps.smarterbalanced.org/~sbacpublic/Public/ImplementationReadiness/2016.02.24.IrpTestPackageAndContent.zip. The reporting packages are located in the */Test Packages/REP/Reporting* directory.

Below is the Math 3 Combined Test Reporting Package from the IRP:

```xml
<testspecification purpose="reporting" publisher="SBAC_PT" publishdate="Aug 19 2015  4:37PM" version="1.0">
  <identifier uniqueid="(SBAC_PT)SBAC-IRP-MATH-3-COMBINED-Summer-2015-2016" name="SBAC-IRP-MATH-3-COMBINED" label="Grade 3 MATH" version="8175" />
  <property name="subject" value="MATH" label="MATH" />
  <property name="grade" value="3" label="grade 3" />
  <property name="type" value="summative" label="summative" />
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      <bpelement elementtype="affinitygroup" minopitems="2" maxopitems="2" opitemcount="2" ftitemcount="0">
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