

Smarter Balanced RFP # 11/Test Authoring

Test Authoring / User Interface

Scenario Description:

Blueprint from UI

Version Control

Version #	Date	Author	Description
1.0	03/06/2014	MR	Initial Draft

Test Scripts:

The following scripts, links and pages consist of generating blueprint and validating Assessment from Test Authoring UI

Test Components:

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

- 1.0 Manage Assessments

Requirements Traceability:

RADTIB 24.2, RADTIB 24.3, RADTIB 30, RADTIB 34, RADTIB 34.1, RADTIB 34.2, RADTIB 34.3, RADTIB 34.4, RADTIB 34.5, RADTIB 34.6, RADTIB 34.7, RADTIB 38.9

Testing Requirements:

- The Test Authoring application permits authorized users to create and manage Test Blueprint entities.
- If a non-leaf node standard is made inactive and its children are not made inactive, a message shall be displayed on each active child node: "Parent Inactive"
- The Test Authoring application permits authorized users to create and manage Segment Blueprint entities.
- For every test in the system, a minimum of one test segment is required
- The Test Blueprint screens shall implement adequate validation to ensure that the indicated mins and maxes are consistent throughout the standards hierarchy.
- The operational item min value for every content standard must be less than or equal to the operational item max value for each standard Display message: "Min must be \leq Max"
- The sum of the operational item min values of a higher-level content standard's active children must be less than or equal to its operational item max value.
- Display message: "The max value of the content standard (N) is less than the sum if its children's min value (M)"
- The sum of the operational item max values of a higher-level content standard's active children must be greater than or equal to its operational item min value.
- Display message: "The max value of the content standard (N) is smaller than the

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- sum if its children's min value (M)
- The field test item min value for every content standard must be less than or equal to the field test item max value for each standard
- Display message: "Min must be \leq Max"
- The sum of the field test item min values of a higher-level content standard's active children must be less than or equal to its field test item max value.
- Display message: "The max value of the content standard (N) is less than the sum if its children's min value (M)"
- The sum of the field test item max values of a higher-level content standard's active children must be greater than or equal to its field test item min value.
Display message: "The max value of the content standard (N) is smaller than the sum if its children's min value (M)"
- Show all test blueprints in a grid
- Provide dropdowns to filter test segments by publisher, subject, grade, test and test segment
- The test and test segment dropdowns are themselves filtered by publisher, subject and grade
- Provide a link for users to select a test segment to edit
- Provide a means for users to delete segment a test
- Provide the means for users to create a new test

Script #:1.1 Blueprint

Purpose:

Generate and validate Blueprint

Assumptions:

- Test Spec Bank, ProgMan, Permission, Test Item Bank, Core Standard systems are up and running

Prerequisites:

- Test Author application is online and user has valid credentials to login
- At least one assessment is available to generate blueprint
- At least one segment is available

Test case Steps

Step #	Test Action	Expected Results	Pass/Fail
Login			
L1.0	Open a supported browser and access link http://drcamp-dev.opentestsystem.org:8080/	SSO login page displays	

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Step #	Test Action	Expected Results	Pass/Fail
L1.1	Enter valid user ID and password	TEST AUTHOR Dashboard page displays	
Verification			
V1.0	Verify that Test, Test Segments and Blueprint images are enable in test-creation workflow page and rest of the images are disable	Test, Test Segments and Blueprint images are enable in test-creation workflow page and rest of the images are disable	
V1.1	Verify that all images in post test-creation workflow page are disable	All images in post test-creation workflow page are disable	
Blueprints			
B1.0	Click Blueprints image from test-creation workflow page	Test Blueprints search page displays after synchronizing blueprint with core standards	
B1.1	Verify that following objects are present in Blueprint search page: <ol style="list-style-type: none"> 1. Assessment Name 2. Standards and SOCKs links 3. Blueprint, Active and Page Size list boxes 4. Grade(s) selection box 5. Standard Key and Standard Text filter textboxes 6. Search and Reset buttons 7. Search Results grid with following columns: Standard Key, Level, Grade, Standard Text, OP Min, OP Max, FT Min, FT Max and Active 8. Total Results Found 9. Widget tool object with following: Top of Page, Bottom of Page, Edit Blueprint Elements, Action and Informational Status 	Objects are present	
B1.2	Verify following defaults: Blueprint list box = Master Grade(s) selection box= All the	Default values are as expected	

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Step #	Test Action	Expected Results	Pass/Fail
	grades from assessment Active list box = Active Page Size list box = 25		
B1.3	Verify that the default value of Active column of search results grid is "Yes"	Default value of Active column of search results grid is "Yes"	
B1.4	Select Segment from Blueprint list box	Search results grid displays blueprints	
B1.5	Verify following columns in results grids: <ol style="list-style-type: none"> 1. Standard Key 2. Level 3. Grade 4. Standard Text 5. OP Min 6. OP Max 7. FT Min 8. FT Max 9. Active 10. Item Selection Algorithm parameter name with Min and Max value range 	Results grid display all columns	
B1.6	Verify that mouse hover over on any rows of Standard text column displays detail description in a popup	Mouse hover over on any rows of Standard text column displays detail description in a popup	
B1.7	Verify that blueprints can be searched using any, combination of any or all of the following search filters: <ol style="list-style-type: none"> 1. Blueprint 2. Active 3. Grade(s) 4. Standard Key 5. Standard Text 	Blueprints can be searched using any, combination of any or all of the search filters	
B1.8	Enter values in any or all of the search filters Change page size = any number other than the default Click Rest	All search filters are reset to default	

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Step #	Test Action	Expected Results	Pass/Fail
B1.9	From widget click Bottom of Page arrow	System displays bottom of blueprints search page	
B1.10	From widget click Top of Page arrow	System displays top of blueprints search page	
B1.0	Click Edit Blueprint Elements from widget	<p>Search filter section is disable</p> <p>Search Results grid is in edit mode</p> <p>Active column of the grid displays checkboxes</p> <p>All checkboxes are checked by default</p> <p>Widget items changed to following: Top of Page Save Cancel Bottom of Page</p>	
B1.11	<p>Select Master from Blueprint list box</p> <p>Click Edit Blueprint Elements from widget</p> <p>Enter non-numeric data in following fields: OP Min OP Max FT Min FT Max</p> <p>Click Save from widget</p>	<p>Following error message displays:</p> <p>Please fix errors in order to save information:</p> <p>Operational Item Min value must be a positive integer</p> <p>Operational Item Max value must be a positive integer</p> <p>Field Test Item Min value must be a positive integer</p> <p>Field Test Item Max value must be a positive integer</p>	
Monitoring and Alerting (MnA)			
M1.0	Go to http://web-dev.opentestsystem.org:8080/permissions/roles.xhtml	MnA Dashboard displays	
M1.1	Click Search Log	MnA Log Search page displays	
M1.2	<p>Select Component = test_auth</p> <p>Click Search</p>	Search results display the same error message	
Blueprints			
B2.0	<p>Select Master from Blueprint list box</p> <p>Click Edit Blueprint Elements from</p>	System saves the changed but the widget display error icon	

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Step #	Test Action	Expected Results	Pass/Fail
	<p>widget</p> <p>Enter following numeric data in following fields:</p> <p>OP Min = 5 OP Max = 3 FT Min = 7 FT Max = 4</p> <p>Click Save from widget</p>		
B2.1	Click on Error icon	<p>Displays following error message popup:</p> <p>Blueprint Errors</p> <p>Standard:CC-MA-v1:EE on Blueprint: Master</p> <p>OP Max Value of the master blueprint must not be greater than the sum of all segment blueprints</p> <p>Standard:CC-MA-v1:EE on Blueprint: Master</p> <p>FT Max Value of the master blueprint must not be greater than the sum of all segment blueprints</p> <p>Standard:CC-MA-v1:EE on Blueprint: Master</p> <p>OP Min Value must be less than or equal to OP Max Value.</p> <p>Standard:CC-MA-v1:EE on Blueprint: Master</p> <p>FT Min Value must be less than or equal to FT Max Value.</p> <p><Close></p>	
B2.2	<p>Select Master from Blueprint list box</p> <p>Click Edit Blueprint Elements from widget</p> <p>Enter following numeric data in following fields:</p> <p>OP Min = 1 OP Max = 3 FT Min = 2 FT Max = 4</p>	System saves the changed but the widget display error icon	

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Step #	Test Action	Expected Results	Pass/Fail
	Click Save from widget		
B2.3	Click on Error icon	<p>Displays following error message popup:</p> <p>Blueprint Errors</p> <p>Standard:CC-MA-v1:EE on Blueprint: Master</p> <p>OP Max Value of the master blueprint must not be greater than the sum of all segment blueprints</p> <p>Standard:CC-MA-v1:EE on Blueprint:Master</p> <p>FT Max Value of the master blueprint must not be greater than the sum of all segment blueprints.</p> <p><Close></p>	
B2.4	Select any available segment from Blueprint list box	Master blueprint search results grid updates to segment blueprint search results grid	
B2.5	<p>Click Edit Blueprint Elements from widget</p> <p>Enter following numeric data in following fields:</p> <p>OP Min = 1</p> <p>OP Max = 3</p> <p>FT Min = 2</p> <p>FT Max = 4</p> <p>Click Cancel from widget</p>	<p>Changes are not saved</p> <p>Error icon displays in widget</p>	
B2.6	<p>Click Edit Blueprint Elements from widget</p> <p>Enter following numeric data in following fields:</p> <p>OP Min = 1</p> <p>OP Max = 3</p> <p>FT Min = 2</p> <p>FT Max = 4</p> <p>Click Save from widget</p>	<p>Changes are saved</p> <p>No error icon in widget</p>	
B2.7	Click Edit Blueprint Elements from widget	Changes are saved	

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Step #	Test Action	Expected Results	Pass/Fail
	Change Item Selection Algorithm parameter value to anything other than the default value Click Save from widget		
B2.8	Click Edit Blueprint Elements from widget Uncheck Active checkbox from any blueprint records Click Save from widget	Changes are saved Blueprint element is inactive now	
B2.9	Select Active from search filter Active list box Click Search	Search results don't display inactive blueprint element	
B2.10	Select Inactive from search filter Active list box Click Search	Search results displays inactive blueprint element	
Database			
B2.11	Logon to Mongo database collection Execute query to verify that all blueprint elements have been added	All blueprint elements have been added	
Blueprints			
B3.0	Click Informational Stat button from widget	Displays Stat box popup with following: Total Active BP Elements: <Number of Active BP> Filtered BP Elements: <Number of Total BP> <Close>	
B3.1	Click close from popup	Popup closes	
B3.2	Click Action wheel button from widget	Displays Action popup with Select Action list box	
B3.3	Click Cancel	Action popup closes	
B3.4	Click Edit Blueprint Elements from widget	Changes are saved	

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Step #	Test Action	Expected Results	Pass/Fail
	Enter any numeric data in following fields other than 0 OP Min, OP Max, FT Min and FT Max Click Save		
B3.5	Click Action wheel button from widget Select Zero Out Segment Values Select segment from Segment list box Click Cancel	No change in selected segment values	
B3.6	Click Action wheel button from widget Select Zero Out Segment Values Select segment from Segment list box Click Save	Values of selected segment change to Zero Displays confirmation popup with following message: Successfully cleared segment: <Segment Name> <OK>	
B3.7	Click OK	Popup closes	
B3.8	Click Action wheel button from widget Select Activate Grade Select Grade(s) from selection box Click Save	Grade(s) are activated Displays confirmation popup with following message: Successfully activated grades: <Grades Name> <OK>	
B3.9	Click OK	Popup closes	
B3.10	Select grades from Grade(s) selection box that are activated Select Active from Active list box Click Search	Search results grid displays the selected grades and Active column displays "Yes" for blueprint elements	
B3.11	Click Action wheel button from widget Select Deactivate Grade Select Grade(s) from selection box	Grade(s) are deactivated Displays confirmation popup with following message: Successfully deactivated grades:	

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Step #	Test Action	Expected Results	Pass/Fail
	Click Save	<Grades Name> <OK>	
B3.12	Click OK	Popup closes	
B2.13	Select grades from Grade(s) selection box that are deactivated Select Inactive from Active list box Click Search	Search results grid displays the selected grades and Active column displays "No" for blueprint elements	
B3.14	Click Action wheel button from widget Select Copy Values from Segment Select From segment Leave To unselected Click Save	Displays error message To Segment is required.	
B3.15	Click Action wheel button from widget Select Copy Values from Segment Select From segment Select To segment Click Save	Segment copy is done Displays confirmation popup with following message: Successfully copied blueprint from: <Segment Name> to: <Segment Name> <OK>	
B3.16	Click OK	Popup closes	
B3.17	Select segment from Blueprint list box that was copied Click Search Verify that segment values are copied correctly	Segment values are copied correctly	
B3.18	Click Action wheel button from widget Select Fill with remaining Values Select segment from Segment list box Select Ignore Inactive Elements from Fill Inactive list box Click Save	Remaining values are filled Displays confirmation popup with following message: Successfully filled remaining values to: <Segment Name> <OK>	

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Step #	Test Action	Expected Results	Pass/Fail
B3.19	Click OK	Popup closes	
B3.20	Select segment from Blueprint list box that was filled Select Active from Active list box Click Search	Search results grid displays elements are filled	
B3.21	Select segment from Blueprint list box that was filled Select Inactive from Active list box Click Search	Search results grid displays inactive elements are not filled	
B3.22	Click Action wheel button from widget Select Fill with remaining Values Select segment from Segment list box Select Fill Inactive Elements from Fill Inactive list box Click Save	Remaining values are filled Displays confirmation popup with following message: Successfully filled remaining values to: <Segment Name> <OK>	
B3.23	Click OK	Popup closes	
B3.24	Select segment from Blueprint list box that was filled Select Active from Active list box Click Search	Search results grid displays elements are filled	
B3.25	Select segment from Blueprint list box that was filled Select Inactive from Active list box Click Search	Search results grid displays inactive elements are filled also	

Test Execution

Date/Time	Tester	Test ID	Test Phase	Status
12/09/2013	RM, SM, SK, MR	UI	1	Pass