

Smarter Balanced RFP #11/Monitoring and Alerting

Monitoring and Alerting JMX Mbeans

Script #: 23.0 JMX &Mbeans

Scenario: JConsole for Mbeans

Version Control

Version #	Date	Author	Description
1.0	03/01/2013	Ryan Marinello	Initial Draft
1.1	April, 2013	Ryan Marinello	Updates, Review

Test Scripts

The following information covers this scenario:

23.0 JMX Mbeans functions for M&A component

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

- RADMA.5.1
- RADMA.5
- RADMA.1.2

User Groups

Technical Users

Script Description

This script covers JMX and MBeans for locating existing server and auto-detection.

Setup

Monitoring and Alerting is configured and functional.

QA staff must have access to JConsole. QA staff has either a Local or Cloud environment deployed for testing to interact with UI.

Teardown

- None

Script

Step #	Test Action	Expected Results
1	JMX - Registration	REST service creates Registration
2	Enter HOST value	http://localhost:8080/jmx/registration
3	Content-Type: application/json	
4	http://{server-context}/jmx/registration	
	functionality aspects to M&A	Get by {id}

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		Get by {alternateKey} Update Delete/remove
	See Script17.0	
5	JMX - metricInfo	REST service creates metricInfo
6	verb POST	Create
7	Content-Type: application/json	Get by {id} by {alternateKey}
8	http://{server-context}/jmx/metricInfo	Delete
9	<p>connect JConsole</p> <p>A connector is composed of two parts</p> <p>relationship for auto-discovery Therefore, a Java application that instantiates a connector client can perform all management operations that are available through the agent's MBean server.</p>	<p>Properties required for connection</p> <p>A connector server, which interacts with the Mbean server in an agent</p> <p>A connector client, which exposes a manager-side interface that is identical to the MBean server interface</p>
10	JConsole for monitoring Mbean attributes and information	Overview, Memory, Threads, Classes, VMSummary, Mbeans information
11	J.Console for JMX service port connection	Overview, Memory, Threads, Classes, VMSummary, Mbeans
12	Requirements	RADMA.1.2, RADMA.5, RADMA.5.1

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Test Execution

Date	Tester	Test ID	Test Phase
April,2013	RM	Script23.0	1
		status Pass	