## **Policy R2 Beijing - Integration Test Plans**

This page will track our test plans for S3P functionality (if applicable). When successful, we will update the Release Planning wiki on our status: Beijing Release Platform Maturity

## Platform Maturity Integration Testing

Area	Actual Level	Targeted Level for current Release	Integration Test Plan	Comments
Perfor mance	Level 1	Level 1	POLICY-392 - Platform Maturity Requirements - Performance Level 1 CLOSED  Platform Maturity: Performance	<ul> <li>0 none</li> <li>1 - baseline performance criteria identified and measured</li> <li>2 &amp; 3 - performance improvement plans created &amp; implemented</li> </ul>
Stability	Level 1	Level 1	POLICY-512 - This epic covers the work to support Platform Maturity Requirements - Stability Level 1 CLOSED Policy Drools PDP 72 Hour Stability Testing Plan Policy XACML PDP 72 Hour Stability Testing Plan	<ul> <li>0 - none</li> <li>1 - 72 hours component level soak w/random transactions</li> <li>2 - 72 hours platform level soak w/random transactions</li> <li>3 - 6 months track record of reduced defect rate</li> </ul>
Resilie ncy	Level 1	Level 2	POLICY-513 - Platform Maturity Requirements - Resiliency Level 2 CLOSED Policy on OOM	<ul> <li>0 - none</li> <li>1 - manual failure and recovery (&lt; 30 minutes)</li> <li>2 - automated detection and recovery (single site)</li> <li>3 - automated detection and recovery (geo redundancy)</li> </ul>
Security	Level 1	Level 1	POLICY 514 - This epic covers the work to support Platform Maturity Requirements - Security Level 1 CLOSED 100% pass	<ul> <li>0 - none</li> <li>1 - CII Passing badge + 50% Test Coverage</li> <li>2 - CII Silver badge; internal communication encrypted; role-based access control and authorization for all calls</li> <li>3 - CII Gold</li> </ul>
Scalabil ity	Level 0	Level 1	POLICY 515 - This epic covers the work to support Platform Maturity Requirements - Scalability Level 1 CLOSED  *NOTE - due to lack of resources, Policy may not be able to do this work. It is "Low" priority per Jason's slides from TSC 1/4 /2018. Policy on OOM	<ul> <li>0 - no ability to scale</li> <li>1 - single site horizontal scaling</li> <li>2 - geographic scaling</li> <li>3 - scaling across multiple ONAP instances</li> </ul>
Manag eability	Level 1	Level 1	POLICY-516 - This epic covers the work to support Platform Maturity Requirements - Manageability Level 1 CLOSED Policy on OOM	<ul> <li>1 – single logging system across components; instantiation in &lt; 1 hour</li> <li>2 – ability to upgrade a single component; tracing across components; externalized configuration management</li> </ul>
Usability	Level 1	Level 1	POLICY-517 - This epic covers the work to support Platform Maturity Requirements - Usability Level 1 CLOSED http://onap.readthedocs.io/en/latest/submodules/policy/engine.git /docs/index.html	<ul> <li>1 – user guide; deployment documentation; API documentation</li> <li>2 – UI consistency; usability testing; tutorial documentation</li> </ul>

HPA Support

Since service design policies are typically defined as a part of a service design model and evaluated/enforced prior to the service instantiation phase. For example, Hardware Platform Enablement (HPA) policies are defined in an SDC service model and evaluated/enforced during the homing optimization process in ONAP. Based on the flow description on OOF-Policy+Interaction+in+R2 and Policy+Specification+and+Retrieval+for+OOF, there are three gaps:

- 1. SDC-to-Policy, the API invoked by SDC to notify a new service model. SDC distributes a service models once the model is stored in the SDC repository. need talk with SDC to check if the existing API could work.
- 2. Policy-to-OOF, new API or another method invoked by OOF to upload the models as template, which is used by Policy to auto-generate policy, whatever one or multi templates. The policy system does not currently offer APIs to upload models. The only available option to manually upload models using the policy portal/GUI. is it acceptable in R2?
- 3. Policy Internal, needs add logic to do auto-generate HPA policies from a service model in R2.