Policy R4 Dublin CSIT/External Lab Functional Test Cases

Triggered by merges in policy/engine, policy/drools-pdp, and policy/drools-applications

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Lab
1	Perform healthcheck for the Policy using Healthcheck API Drools PDP XACML PDP PAP BRMSGateway	 Policy docker image ready and policy components (Drools, XACML, PAP, BRMS Gateway) should be up and running Server and authentication details should be configured at \$POLICY_ HOME/config/feature-healthcheck. properties 	API – healthcheck <u>Method</u> - GET <u>Endpoint:</u> https:// <host>:6969 /policy/pdpd/v1 /engine/healthcheck (legacy policy system healthcheck with new REST API format)</host>	All the policy components should return health status as " true "	CSIT - DONE External Lab - DONE
2	Import/Load Use case template for the following use cases (VoLTE, vCPE, vFW, vDNS)	Policy components should be up and running	API – policyEngineImport Method – POST Endpoint: https:// <host>:8081 /pdp /policyEngineImport (legacy API)</host>	Policy service models should be imported for the specified use cases. We should be able to create policy from here.	CSIT
3	Create and Push Config Policy for the vFW use case.	Policy components up and running	API – CreateConfig Method – PUT Endpoint: https:// <host>:8081 /pdp/api/createPolicy (legacy API) API - pushPolicy Method - PUT Endpoint: https://<host>:8081/p dp/api/pushPolicy (legacy API)</host></host>	Config Policy should be created in Policy Engine (PAP) and Config Policy should be pushed to the PDP group	CSIT - DONE
4	Create and Push Config Policy for the vDNS use case.	Policy components up and running	API – CreateConfig Method – PUT Endpoint: https:// <host>:8081 /pdp/api/createPolicy (legacy API) API - pushPolicy Method - PUT Endpoint: https://<host>:8081/p dp/api/pushPolicy (legacy API)</host></host>	Config Policy should be created in Policy Engine (PAP) and Config Policy should be pushed to the PDP group	CSIT - DONE

5	Create and Push config Policy for the vCPE use case.	Policy components up and running	API – CreateConfig Method – PUT Endpoint: https:// <host>:8081 /pdp/api/createPolicy (legacy API) API - pushPolicy Method - PUT Endpoint: https:// <host>:8081/p dp/api/pushPolicy (legacy API)</host></host>	Config Policy should be created in Policy Engine (PAP) and Config Policy should be pushed to the PDP group	CSIT-DONE
6	Create and Push vFW SDNC Naming policy	Policy components up and running	API - createPolicy Method - PUT Endpoint: https:// <host>:8081/p dp/api/createPolicy</host>	Naming policy should be created in Policy Engine	CSIT - DONE
7	Create and Push vPG SDNC Naming policy	Policy components up and running	API - createPolicy Method - PUT Endpoint: https:// <host>:8081/p dp/api/createPolicy</host>	Naming policy should be created in Policy Engine	CSIT - DONE
8	Create and Push Operational policy for vFW use case	Policy components up and running	API - createPolicy Method – PUT Endpoint: https:// <host>:8081/p dp/api/createPolicy (legacy API) API - pushPolicy Method - PUT Endpoint: https://<host>:8081/p dp/api/pushPolicy (legacy API)</host></host>	Operational Policy should be created in Policy Engine (PAP) and Operational Policy should be pushed to the PDP engine	CSIT - DONE
9	Create and Push Operational Policy to the PDP Engines for vDNS use case	Policy components up and running	API - createPolicy Method – PUT Endpoint: https:// <host>:8081/p dp/api/createPolicy (legacy API) API - pushPolicy Method - PUT Endpoint: https:// <host>:8081/p dp/api/pushPolicy (legacy API)</host></host>	Operational Policy should be created in Policy Engine (PAP) and Operational Policy should be pushed to the PDP engine	CSIT - DONE

10	Create and Push Operational Policy to the PDP Engines for vCPE use case	Policy components up and running	API - createPolicy Method – PUT Endpoint: https:// <host>:8081/p dp/api/createPolicy (legacy API) API - pushPolicy Method - PUT Endpoint: https:// <host>:8081/p dp/api/pushPolicy (legacy API)</host></host>	Operational Policy should be created in Policy Engine (PAP) and Operational Policy should be pushed to the PDP engine	CSIT - DONE
11	Create and Push Operational Policy to the PDP Engines for VOLTE use case	Policy components up and running	API - createPolicy Method – PUT Endpoint: https:// <host>:8081/p dp/api/createPolicy (legacy API) API - pushPolicy API - pushPolicy Method - PUT Endpoint: https:// <host>:8081/p dp/api/pushPolicy (legacy API)</host></host>	Operational Policy should be created in Policy Engine (PAP) and Operational Policy should be pushed to the PDP engine	CSIT - DONE
12	Retrieve the Configs for the vFW use case	Policy components up and running	API – getConfig Method – POST Endpoint: https:// <hos t>:8081/pdp/api/getC onfig (legacy API)</hos 	Both Config and Operational Policies configured should be retrieved successfully	CSIT - DONE
13	Retrieve the Configs for the v DNS use case	Policy components up and running	API – getConfig Method – POST Endpoint: https:// <hos t>:8081/pdp/api/getC onfig (legacy API)</hos 	Both Config and Operational Policies configured should be retrieved successfully	CSIT - DONE
14	Retrieve the Configs for the v CPE use case	Policy components up and running	API – getConfig Method – POST Endpoint: https:// <hos t>:8081/pdp/api/getC onfig (legacy API)</hos 	Both Config and Operational Policies configured should be retrieved successfully	CSIT - DONE
15	List Configuration Policies	List all configuration policies	<u>API</u> – listPolicy <u>Method</u> – POST <u>Endpoint:</u> https:// <hos t>:8081/pdp/api /listPolicy</hos 	Should list all configuration policies	CSIT-Done
16	Get ONAP Optimization Framework(OOF) Policy for Hardware Platform Awareness (HPA)	Retrieve OOF Policy for HPA	API – getConfig <u>Method</u> – POST <u>Endpoint:</u> https:// <hos t>:8081/pdp/api/getC onfig</hos 	Should return the HPA policy.	CSIT-Done

17	Create and Push OOF Policy for Hardware Platform Awareness(HPA)	Create and Push OOF Policy for HPA	API - createPolicy Method – PUT Endpoint: https:// <host>:8081/p dp/api/createPolicy (legacy API) API - pushPolicy Method - PUT Endpoint: https://<host>:8081/p dp/api/pushPolicy (legacy API)</host></host>	Should Create and Push the config policy	CSIT-Done
18	Create and Push multiple policies	Create and push multiple operational policies	API - pushPolicy Method - PUT Endpoint: https:// <host>:8081/p dp/api/pushPolicy</host>	Should create and push 3 operational policies	CSIT - Done
19	Delete multiple policies	Delete multiple operational policies	API - deletePolicy Method - DELETE Endpoint: https:// <host>:8081/p dp/api/deletePolicy</host>	Should delete the 3 operational policies created before this (from test #18)	CSIT - Done

Triggered by merges in policy/distribution

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Lab
1	Perform healthcheck of the component	Policy distribution docker image is available	<u>API</u> – healthcheck <u>Method</u> - GET <u>Endpoint:</u> https:// <host>:6969/policy /distribution/v1/healthcheck</host>	The component should return health status as "true"	CSIT - DONE External Lab
2	Query component for statistics	Policy distribution docker image is available	API - statistics <u>Method</u> - GET <u>Endpoint: https://<host>:6969/policy</host></u> /distribution/v1/statistics	The component should return the current statistics of the component.	CSIT - DONE

Triggered by merges in policy/pap

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Lab
1	Perform healthcheck of the component	PAP docker image is available	API – healthcheck <u>Method</u> - GET <u>Endpoint:</u> https:// <host>:6969 /policy/pap/v1/healthcheck</host>	The component should return health status as "true"	CSIT - DONE External Lab - DONE
2	Query component for statistics	PAP docker image is available	API - statistics <u>Method</u> - GET <u>Endpoint: https://<host>:6969</host></u> /policy/pap/v1/statistics	The component should return the current statistics of the component.	CSIT - DONE External Lab

3	Query pdp group information	PAP docker image is available	API - pdps <u>Method</u> - GET <u>Endpoint:</u> https:{url}:{port}/policy /pap/v1/pdps	The component should return the list of PDP groups and subgroups together with the policies that are deployed on each PDP group and subgroup.	CSIT - DONE
4	Create PDP group & subgroup	PAP docker image is available	API - pdps <u>Method</u> - POST <u>Endpoint:</u> https:{url}:{port}/policy /pap/v1/pdps	The component should create the relevant PDP group & subgroup in the database and return with operation success message/code.	CSIT - DONE
5	Create a Policy	API docker image is available	API – policytypes/onap.policies. Monitoring.cdap.tca.hi.lo.app /versions/1.0.0/policies Method - POST Endpoint: http:// <host>:6969/policy /api/v1/policytypes/onap.policies. Monitoring.cdap.tca.hi.lo.app /versions/1.0.0/policies</host>	The Policy API should return code 201 and message "A new policy has been successfully created."	CSIT
6	Deploy policy to PDP group & subgroup	PAP docker image is available API docker image is available DMaaP simulator docker image is needed; a PDP can be simulated using curl	API - pdps <u>Method</u> - POST <u>Endpoint:</u> https:{url}:{port}/policy /pap/v1/pdps	The component should map the relevant policies with the corresponding PDP group & subgroup in database. Deploy the policy in relevant PDP and return with operation success message/code.	CSIT
7	UNDeploy policy to PDP group & subgroup	PAP docker image is available API docker image is available NOTE: PDP's not needed for this test in Dublin.	API - pdps <u>Method</u> - POST <u>Endpoint:</u> https:{url}:{port}/policy /pap/v1/pdps	Based on test #5 - undeploy those policies	CSIT - DONE
8	Query pdp- group statistics	PAP docker image is- available PDP docker image is- available	API pdps Method GET Endpoint: https:{url}:{port}/policy /pap/v1/pdps/statistics	The PAP component must return the statistics for PDP- groups, subgroups and individual PDPs.	CSIT (Not- done in this- release) The API will- be- implemented in next- release.
9	Delete PDP- group &- cubgroup	PAP docker image is- available PDP docker image is- available	API - pdps <u>Method</u> - DELETE <u>Endpoint: https:{url}:{port}/policy</u> /pap/v1/pdps? name= <group_name>&version=<v ersion></v </group_name>	The component should delete the relevant PDP group & subgroup from database and kill the corresponding PDP- instances (running as kubernetes pods). Finally, return with operation success message/code.	CSIT (Not done in this- release) The API will- be- implemented in next- release.

Triggered by merges in policy/drools-pdp

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Labs
1	1 Alive Verify that base bar comes alive	Alive Verify that base barebone PDP-D AP comes alive	<u>API</u> – telemetry	Verify alive field	CSIT-DONE
			Method - GET		
			Endpoint: https:// <host>:9696/policy /pdpd/v1/engine</host>		

2 (stretc h)	Dynamic Controller Creation	Verify dynamic addition of a PDP-D controller	<u>API</u> – telemetry <u>Method</u> - GET <u>Endpoint:</u> https:// <host>:9696/policy /pdpd/v1/controllers/<controller></controller></host>	Verify that the dynamically create controller is alive.	CSIT
3 (stretc h)	Dynamic Controller Traffic	Verify that PDP-D can process traffic for the controller created in step-2.	<u>API</u> – telemetry <u>Method</u> - GET <u>Endpoint:</u> https:// <host>:9696/policy /pdpd/v1/controllers/<controller>/drools</controller></host>	Verify that the events structure contains input and expected output messages.	CSIT

Triggered by merges in policy/drools-applications

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Labs
1	Healthcheck	Verify that base barebone PDP- D comes alive	<u>API</u> – telemetry <u>Method</u> - GET <u>Endpoint:</u> https:// <host>:6969/policy/pdpd/v1/engine /healthcheck</host>	Verify healthcheck	CSIT
2	vFW	Verify vFW use case. Simulators should be installed.	 Add vFW Operational Policy Inject ONSET Trace the vFW use case across the complete sequence of messages 	Verify vFirewall completes successfully	CSIT
3	vDNS	Verify Scale out use case. Simulators should be installed.	 Add vDNS Operational Policy Inject ONSET Trace the vDNS use case across complete sequence of messages 	Verify scale out completes successfully	CSIT
4	VCPE	Verify vCPE use case. Simulators should be installed.	 Add vCPE Operational Policy Inject ONSET Trace the vCPE use case across the complete sequence of messages 	Verify vCPE completes successfully	CSIT

Triggered by merges in policy/xacml-pdp

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Lab
1	Health Check	Xacml-PDP docker image available	<u>API</u> – healthcheck <u>Method</u> - GET <u>Endpoint:</u> http:// <host>:6969/policy/pdpx/v1 /healthcheck</host>	The component should return health status as "true " Status code 200	CSIT - DONE External Lab
2	Statistics	XacmI-PDP docker image available	<u>API</u> – statistics <u>Method</u> - GET <u>Endpoint:</u> http:// <host>:6969/policy/pdpx/v1/statistics</host>	The Xacml PDP should return statistics report consisting of 0 policies loaded and 0 decisions Status code 200	CSIT - DONE
3	Create policy	API docker image available	<u>API</u> - policytypes/onap.policies.Monitoring.cdap.tca.hi. Io.app/versions/1.0.0/policies <u>Method</u> - POST Endpoint: http:// <host>:6969/policy/api/v1/policytypes/onap.policies.Monitoring.cdap.tca.hi.lo.app/versions/1. 0.0/policies Monitoring.cdap.tca.hi.lo.app/versions/1.</host>	The Policy API should return code 201 and message "A new policy has been successfully created."	CSIT

3	Deploy Policy	XacmI-PDP and PAP docker images available Policy created on the PAP	API – deployPolicy <u>Method</u> - POST <u>Endpoint:</u> http:// <host>:6969/policy/pdpx/v1 /deployPolicy</host>	Successfully deploy a policy to the XACML PDP Statistics should increment policy count Status code 201	CSIT /External Lab (stretch)
4	Statistics	XacmI-PDP and PAP docker images available Test Case 3 success	API – statistics Method - GET Endpoint: http:// <host>:6969/policy/pdpx/v1/statistics</host>	The Xacml PDP should return statistics report consisting of 1 policy loaded and 0 decisions Status code 200	CSIT
5	Decision API	Xacml-PDP docker image available Test Case 4 success	API – decision Method - POST Endpoint: http:// <host>:6969/policy/pdpx/v1/decision</host>	The Xacml PDP should return a Decision object containing the decision Statistics should increment decision count Status code 200	CSIT /External Lab (stretch)
6	Statistics	XacmI-PDP docker image available Test Case 5 success	<u>API</u> – statistics <u>Method</u> - GET <u>Endpoint:</u> http:// <host>:6969/policy/pdpx/v1/statistics</host>	Xacml PDP should return a statistics report consisting of 1 policy loaded and 1 decisions Status code 200	CSIT
7	Undeploy Policy	Xacml-PDP and PAP docker images available	API – deployPolicy <u>Method</u> - POST <u>Endpoint:</u> http:// <host>:6969/policy/pdpx/v1 /undeployPolicy</host>	Successfully undeploy of policy from the Xacml PDP Statistics should decrement the policy count Status code 201	CSIT
8	Statistics	Xacml-PDP docker image available Test Case 7 success	API – statistics Method - GET Endpoint: http:// <host>:6969/policy/pdpx/v1/statistics</host>	Xacml PDP should return a statistics report consisting of 0 policies loaded and 1 decision Status code 200	CSIT

Triggered by merges in policy/apex-pdp

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Labs
1	Perform healthcheck of the component	Apex PDP docker image is available	<u>API</u> – healthcheck <u>Method</u> - GET <u>Endpoint:</u> https:// <host>:6969/policy /apex-pdp/v1/healthcheck</host>	The component should return health status as "true"	CSIT - DONE External Lab
2	Query component for statistics	Apex PDP docker image is available	API - statistics <u>Method</u> - GET Endpoint: https:// <host>:6969/policy /apex-pdp/v1/statistics</host>	The component should return the current statistics of the component.	CSIT (Stretch)
3	Create Operational policies for the following use cases • SampleDomain • BBS (if this is not a POC)	Policy components up and running	(Will be added once API page approved) (Current integration tests for REST client moved to CSIT)	Operational Policy should be created in apex-pdp	CSIT (Stretch)

Triggered by merges in policy/api

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT External Labs
1	Perform healthcheck for policy design API service	 Policy API docker image available 	<u>API</u> – healthcheck <u>Method</u> - GET <u>Endpoint:</u> http:// <host>:6969/policy/api/v1 /healthcheck</host>	The Policy API should return health status as "true"	CSIT - DONE External Lab -

2	Retrieve statistics of policy design API invocation	 Policy API docker image available 	<u>API</u> – statistics <u>Method</u> - GET <u>Endpoint:</u> http:// <host>:6969/policy/api/v1 /statistics</host>	The Policy API should return API invocation statistics report with code set to "200"	CSIT - DONE External Lab -
3	Retrieve pre- loaded generic policy types	Policy API docker image available	<u>API</u> – policytypes <u>Method</u> - GET <u>Endpoint:</u> http:// <host>:6969/policy/api/v1 /policytypes</host>	The Policy API should return a list of pre-loaded generic policy types	CSIT-DONE
4	Create a new TCA policy type for DCAE TCA microservice	 Policy API docker image available DCAE TCA ms policy type is not created yet 	API – policytypes <u>Method</u> - POST <u>Endpoint:</u> http:// <host>:6969/policy/api/v1 /policytypes</host>	The Policy API should return code 201 and message "A new policy type has been successfully created."	CSIT-DONE
5	Retrieve Monitoring related policy types	 Policy API docker image available DCAE TCA ms policy type is created 	<u>API</u> – policytypes/onap.policies.Monitoring <u>Method</u> - GET <u>Endpoint:</u> http:// <host>:6969/policy/api/v1 /policytypes/onap.policies.Monitoring</host>	The Policy API should return a list of onap. policies.Monitoring and derived onap.policies. Monitoring.cdap.tca.hi.lo.app policy types	CSIT-DONE
6	Create a new Monitoring TCA policy	 Policy API docker image available onap.policies. Monitoring.cdap.tca. hi.lo.app version 1.0.0 policy type has been created 	API – policytypes/onap.policies.Monitoring. cdap.tca.hi.lo.app/versions/1.0.0/policies Method - POST <u>Endpoint:</u> http:// <host>:6969/policy/api/v1/p olicytypes/onap.policies.Monitoring.cdap. tca.hi.lo.app/versions/1.0.0/policies</host>	The Policy API should return code 201 and message "A new policy has been successfully created."	CSIT-DONE
7	Retrieve all policies created for a specific policy type	 Policy API docker image available onap.policies. Monitoring.cdap.tca. hi.lo.app version 1.0.0 policy type has been created onap.restart.tca policy has been created 	<u>API</u> – policytypes/onap.policies.Monitoring. cdap.tca.hi.lo.app/versions/1.0.0/policies <u>Method</u> - GET <u>Endpoint:</u> http:// <host>:6969/policy/api/v1 /policytypes/onap.policies.Monitoring.cdap. tca.hi.lo.app/versions/1.0.0/policies</host>	The Policy API should return a list of policies that have been created for <i>onap.policies</i> . <i>Monitoring.cdap.tca.hi.lo.app</i> version 1.0.0 policy type, including onap.restart.tca	CSIT-DONE
8	Delete one specific version of a policy	 Policy API docker image available onap.policies. Monitoring.cdap.tca. hi.lo.app version 1.0.0 policy type has been created onap.restart.tca version 1.0.0 policy has been created 	<u>API</u> – policytypes/onap.policies.Monitoring. cdap.tca.hi.lo.app/versions/1.0.0/policies /onap.restart.tca/versions/1.0.0 <u>Method</u> - DELETE <u>Endpoint:</u> http:// <host>:6969/policy/api/v1 /policytypes/onap.policies.Monitoring.cdap. tca.hi.lo.app/versions/1.0.0/policies/onap. restart.tca/versions/1.0.0</host>	The Policy API should delete specific version of onap.restart.tca policy and return code 200 with Non-NULL response. Second Call for same version would return 404.	CSIT-DONE