

Policy London-R12 Architecture Review

1- Project Overview

The Policy subsystem of ONAP maintains, distributes, and operates on the set of rules that underlie ONAP's control, orchestration, and management functions. See [Policy Framework Project Proposal \(5/11/17\)](#) for more information.

2- New component capabilities for Honolulu-R8

The following table lists the new functional requirements Policy is committing to support for the Honolulu Release:

Requirements	Notes
REQ-429 - Use Case for ONAP-based SON for 5G networks DONE	stretch goal
REQ-441 - LOGS MANAGEMENT - PHASE 1: COMMON PLACE FOR DATA TO DO	already done
REQ-439 - CONTINUATION OF PACKAGES UPGRADES IN DIRECT DEPENDENCIES IN PROGRESS	
REQ-437 - COMPLETION OF PYTHON LANGUAGE UPDATE (v2.7 v3.x) IN PROGRESS	already done
REQ-398 - Deploy on demand ONAP through CI per use case DONE	support only
REQ-396 - Clearly split ONAP code and use case code TO DO	already done
REQ-473 - Merge CLAMP functionality into Policy Framework project DONE	POC
REQ-478 - PoC - TOSCA Defined Control Loop on Honolulu Release IN PROGRESS	POC

The following epics are in scope for Honolulu, though are not required:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
POLICY-2919	add into the policy-clamp UI the policy editor capabilities		Dec 10, 2020	Apr 13, 2023		Unassigned	None		CLOSED	Done
POLICY-2605	This epic covers technical debt left over from Guilin		Jun 03, 2020	Apr 13, 2023		Unassigned	None		CLOSED	Done

2 issues

POLICY-2923 - use the policy-clamp ui to manage policy types CLOSED ,
POLICY-2924 - use the policy-clamp ui to manage pdp groups CLOSED ,
POLICY-2921 - use the policy-clamp ui to manage pdp groups CLOSED , and
POLICY-2919 - add into the policy-clamp UI the policy editor capabilities CLOSED are extensions to the
REQ-478 - PoC - TOSCA Defined Control Loop on Honolulu Release IN PROGRESS POC.

 POLICY-2484	- R8: This epic covers the work to remove the technical debt for SDNR actor interface with DCAE SON and SDNR controller.
CLOSED	
,  POLICY-2715	- Allow underlying database to be configured: MariaDB or Postgres CLOSED ,
 POLICY-2352	- This epic covers the work to finish policy validation CLOSED are investigative.
 POLICY-2605	- This epic covers technical debt left over from Guilin CLOSED covers miscellaneous technical debt from Guilin and will be completed.

3- New or modified interfaces

The following changes will be made to the interfaces during the Honolulu release:

- Add new APIs to the PAP to query the deployment status of all PDP/policy pairs.
- Change return status from 200 to 202 in the PAP deployment APIs.
- In the health check API, include information about the availability of dependent systems (e.g., A&AI, DB, DMaaP)

These are described in the following page: [PAP REST API changes for Honolulu release](#).

4- If they are modified, are they backwards compatible?

The PAP API deployment changes are not backwards compatible, nevertheless it is expected minimum impact as its main consumer, CLAMP, is being migrated under the Policy components umbrella.

6- Interface naming

See [ARC Policy Framework Component Description - Honolulu-R8](#).

7- Consumed API from other projects

See [ARC Policy Framework Component Description - Honolulu-R8](#).

8- Published API

See [ARC Policy Framework Component Description - Honolulu-R8](#).

9- Reference to the interfaces.

See <https://docs.onap.org/projects/onap-policy-parent/en/latest/offeredapis.html>.

10- What are the system limits?

No more than one PAP may be run at a time.

11- Involved use cases, architectural capabilities or functional requirements.

Policy is used in the following use cases:

- vFW
- vDNS
- vCPE
- CCVPN
- 5G

12- Listing of new or impacted models used by the project

None

13-Test plan/Testing Strategy

1. Unit Testing

- a. Continue to use junit for java tests
 - b. Continue to use jest for javascript tests
2. **Dev-to-Dev Testing and**
 - a. Communication between Policy components will be tested via Policy-specific CSITs
 - b. There are no plans for individual dev-to-dev testing with other ONAP projects. There are no facilities within Policy to test an interface independent of a use case, nor can other systems provide "sunny-day" responses without being pre-configured. As a result, dev-to-dev testing will take place as part of the integration testing of various use cases. This is unchanged from previous releases.
 3. **Integration**
 - a. Integration testing will be done using the integration labs with a full OOM installation

14- Any other details that are specific to this functional enhancement or UseCase.

None