

OOF Honolulu Release Planning

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Overview

Project Name	Enter the name of the project
Target Release Name	Honolulu
Project Lifecycle State	Mature
Participating Company (in alphabetical order)	AT&T, Huawei, Wipro

Scope

What is this release trying to address?

Committed:

Functional Requirements

- 5G Network Slicing [REQ-440 - Getting issue details...](#) [STATUS](#) *Resources from Wipro, Huawei*
 - Support 5G slice instantiation workflows, by providing selection decisions ([5G - Network Slicing](#)) - NST, NSI, NSSI
 - Small enhancements to Slice profile determination including determining mapping from coverageArea coverageAreaTAList

Non - Functional Requirements:

Resources from Wipro, AT&T (Huawei to support where needed)

- ONAP projects must use only approved and verified base images for their containers ([REQ-379](#))
- Each project will update the vulnerable direct dependencies in their codebase ([REQ-439](#))

- Removal of GPLv3 from docker images ([OPTFRA-853](#) - Getting issue details... STATUS)
- Externalize configuration via consul ([OPTFRA-875](#) - Getting issue details... STATUS)

Stretch goals

- Functional requirements**
 - SON Optimization** [REQ-429](#) - Getting issue details... STATUS *Resources from Wipro*
 - Updates to PM data to consider also incoming HOs during PCI optimization
 - Interface to CPS (instead of Config DB)
 - 5G Network Slicing** [REQ-440](#) - Getting issue details... STATUS *Resources from Wipro, Huawei*
 - Core NF placement related enhancements (for CNFs)
 - Connection link selection for TN
- Non Functional requirements**
 - Improve documentation. Document as you code. New features must have mandatory documentation along with code.
 - CII Silver badge; internal communication encrypted

Use Cases

- Hardening/Test Only**
 - HPA - Hardening, Testing and Automation of vFW, vDNS, vCPE, VoLTE**
 - Traffic Distribution**
 - Change Management**
- Extensions of existing use cases**
 - 5G E2E Network Slicing**
 - 5G OOF-SON**

Minimum Viable Product

- OOF-HAS - Homing/Placement Service
- OOF-OSDF - Optimization Design framework
- OOF-CMSO - Change Management Schedule Optimizer

Functionalities

List the functionalities that this release is committing to deliver by providing a link to JIRA Epics and Stories. In the JIRA Priority field, specify the priority (either High, Medium, Low). The priority will be used in case de-scoping is required. Don't assign High priority to all functionalities.



Epics

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
OPTFR A-939	Release Candidate 2 Integration and Test		Apr 09, 2021	May 05, 2021	Apr 22, 2021	Unassigned	None	==	CLOSED	Done
OPTFR A-931	Release Candidate 1 Integration and Test		Mar 17, 2021	Apr 13, 2021	Mar 25, 2021	Unassigned	None	==	CLOSED	Done
OPTFR A-872	OOF enhancements for E2E Network Slicing in Honolulu		Nov 17, 2020	Mar 30, 2021		Unassigned	None	==	CLOSED	Done
OPTFR A-856	OOF Honolulu Release Requirements		Oct 07, 2020	Mar 23, 2021		Unassigned	None	==	CLOSED	Done
OPTFR A-273	This epic spans the work to progress further from the current Manageability level		Jun 28, 2018	Mar 23, 2021		Unassigned	None	==	CLOSED	Done
OPTFR A-914	Release Candidate 0 Integration and Test		Feb 23, 2021	Mar 22, 2021	Mar 11, 2021	Unassigned	None	==	CLOSED	Done

OPTFR A-892	Feature Freeze		Feb 01, 2021	Mar 04, 2021	Feb 25, 2021	Unassigned	None	=	CLOSED	Done
OPTFR A-876	Release Planning		Dec 12, 2020	Jan 28, 2021	Jan 11, 2021	Unassigned	None	=	CLOSED	Done
OPTFR A-881	Specification Freeze		Dec 23, 2020	Jan 28, 2021	Jan 21, 2021	Unassigned	None	=	CLOSED	Done

9 issues

Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
OPTFRA-764	NST selection enhancements		May 27, 2020	Aug 26, 2021		Unassigned	None	=	CLOSED	Done
OPTFRA-318	Adhere to log specification v1.2 for HAS		Aug 21, 2018	Mar 23, 2021		Unassigned	None	=	CLOSED	Done

2 issues

Longer term roadmap

As the ONAP platform matures and new capabilities are introduced over time, the need for platform optimization services will grow along with it. The ONAP Optimization Framework is envisioned to handle this need as effectively as possible, by enabling creation of new optimization services with minimal or little new code development. The goal of OOF is to provide a growing set of core platform optimization services such as VNF placement and resource allocation (OOF-HAS), change management scheduling (OOF-CMSO), etc. OOF also supports many critical 5G Services' needs including SON optimizations and Network Slicing Optimizations.

Release Deliverables

Indicate the outcome (Executable, Source Code, Library, API description, Tool, Documentation, Release Note, etc) of this release.

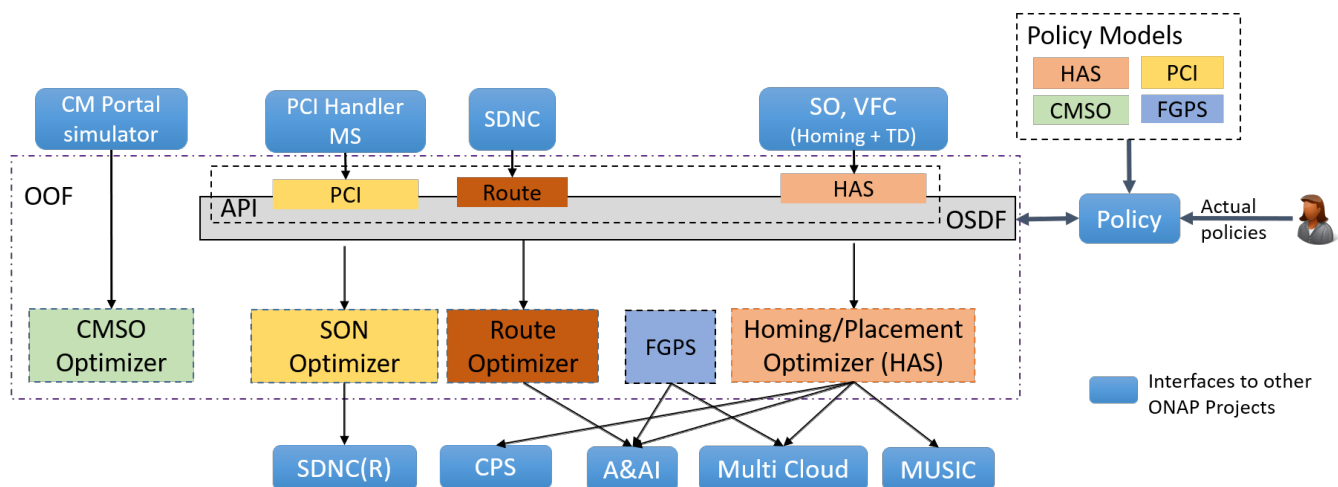
Deliverable Name	Deliverable Description
OOF-HAS	Executable, and source code for the Homing Service for the ONAP platform
OOF-OSDF	Executable and source code that provides optimization design framework support to optimizers like HAS
OOF-CMSO	Executable, and source code for the Change Management Schedule Optimizer

Sub-Components

- [Homing and Allocation Service \(HAS\)](#)
- [Optimization Service Design Framework](#)
- [Change Management Scheduling Optimizer \(CMSO\)](#)

Architecture

High level architecture diagram



Platform Maturity

Please fill out the centralized wiki page: [Honolulu Release Platform Maturity](#)

API Incoming Dependencies

List the API this project is expecting from other projects.

Prior to Release Planning review, Team Leads must agreed on the date by which the API will be fully defined. The API Delivery date must not be later than the [release API Freeze date](#).

Prior to the delivery date, it is a good practice to organize an API review with the API consumers.

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)	Status
Policy	Policy Client API to create, update and retrieve homing policies.	EI Alto		TBD	In progress
AAI	REST Web Service provided by AAI, to query available cloud-regions, and existing service instances where a new order can be placed.	EI Alto Release		https://onap.readthedocs.io/en/latest/submodules/aa/aa-common.git/docs/AAI%20REST%20API%20Documentation/AAIRESTAPI_CASABLANCA.html#aa-rest-api	Completed
MultiCloud	API to retrieve VIM capacities (infrastructure metrics model)	EI Alto Release		https://onap.readthedocs.io/en/latest/submodules/multicloud/framework.git/docs/specs/multicloud_resource_capacity_check.html	Completed
Music	Music client REST API	EI Alto Release		https://docs.onap.org/en/latest/submodules/music/distributed-kv-store.git/docs/offeredapis.html	Completed
SDNC (R)	Config DB interface	EI Alto Release		https://github.com/onap-oof-pci-poc/sdnc/blob/master/ConfigDB/swagger-json/swagger.json	Completed

• API Outgoing Dependencies

API this project is delivering to other projects.

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e. swagger)	Status
HAS API	API to submit homing requests, and retrieve homing solutions (SO, VFC)	EI Alto Release		oof-osdf-has-api.json (OOF/HAS API Specifications)	Completed
	Extensions to APIs to support network slicing workflows (NST, NSI and NSSI selection)	Guilin Release	TBD	In progress	In progress

SON API	API to perform SON optimization	Frankfurt Release		oof-osdf-has-api.json (PCI Optimization API)	Completed
Route API	API to perform Route optimization (used by CCVPN use case)	Frankfurt Release		oof-osdf-has-api.json (Route Optimization API)	Completed
	API enhancements for Route Selection for MDONS use case	Guilin Release	TBD	In progress	In progress
CMSO API	API invoked by CM use case for schedule optimization	El Alto Release		oof-cmsso-api.json (CM API Specifications)	Completed

• Third Party Products Dependencies

Third Party Products mean products that are mandatory to provide services for your components. Development of new functionality in third party product may or not be expected.

List the Third Party Products (OpenStack, ODL, RabbitMQ, Elasticsearch, Crystal Reports, ...).

Name	Description	Version
To fill out	To fill out	To fill out

In case there are specific dependencies (Centos 7 vs Ubuntu 16. Etc.) list them as well.

• Testing and Integration Plans

The following testing will be planned for OOF in this release:

- **Unit Tests and Code Coverage:** Maintain 55% code coverage
- **Continuous System Integration Testing (CSIT):** Enhance existing CSIT functional tests to cover new features

• Gaps

This section is used to document a limitation on a functionality or platform support. We are currently aware of this limitation and it will be delivered in a future Release.

List identified release gaps (if any), and its impact.

Gaps identified	Impact
To fill out	To fill out

• Known Defects and Issues

Please refer to Guilin Defect Status.

• Risks

- Meeting the non-functional requirement for CMSO project. There are no active contributors for the project right now. Requests have been sent for supporting to meet the non-functional requirements.

Please update any risk on the centralized wiki page - [Honolulu Risks](#).

• Resources

Please see the INFO.yaml files associated with each repo as the authoritative sources of information. <https://gerrit.onap.org/r/admin/repos/q/filter:optf>

• Release Milestone

The milestones are defined at the [Release Planning: Honolulu](#) and all the supporting project agreed to comply with these dates.

• Team Internal Milestone

This section is optional and may be used to document internal milestones within a project team or multiple project teams. For instance, in the case the team has made agreement with other team to deliver some artifacts on a certain date that are not in the release milestone, it is recommended to provide these agreements and dates in this section.

It is not expected to have a detailed project plan.

Date	Project	Deliverable
To fill out	To fill out	To fill out

• Documentation, Training

Please update the following centralized wiki: [Honolulu Documentation](#).

That includes

- Team contributions to the specific document related to the project (Config guide, installation guide...).
- Team contributions to the overall Release Documentation and training asset
- High level list of documentation, training and tutorials necessary to understand the release capabilities, configuration and operation.
- Documentation includes items such as:
 - Installation instructions
 - Configuration instructions
 - Developer guide
 - End User guide
 - Admin guide
 - ...



Note

The Documentation project will provide the Documentation Tool Chain to edit, configure, store and publish all Documentation asset.

Other Information

• Vendor Neutral

If this project is coming from an existing proprietary codebase, ensure that all proprietary trademarks, logos, product names, etc. have been removed. All ONAP deliverables must comply with this rule and be agnostic of any proprietary symbols.

• Free and Open Source Software

FOSS activities are critical to the delivery of the whole ONAP initiative. The information may not be fully available at Release Planning, however to avoid late refactoring, it is critical to accomplish this task as early as possible.

List all third party Free and Open Source Software used within the release and provide License type (BSD, MIT, Apache, GNU GPL,...).

In the case non Apache License are found inform immediately the TSC and the Release Manager and document your reasoning on why you believe we can use a non Apache version 2 license.

Each project must edit its project table available at [Project FOSS](#).

Charter Compliance

The project team comply with the [ONAP Charter](#).