


MultiCloud Dublin Release Planning

DRAFT PROPOSAL FOR COMMENTS

The content of this template is expected to be fill out for M1 Release Planning Milestone.

 **Info**

Use the "Copy" and "Move" options (available under the ..., top right of this page) to duplicate this template into your project wiki.

Use the Wiki to document the release plan. Don't provide PowerPoint.

Use as much diagrams and flow charts as you need, directly in the wiki, to convey your message.

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Overview

Project Name	Enter the name of the project
Target Release Name	Dublin Release
Project Lifecycle State	Incubation
Participating Company	Wind River, Intel, Lenovo, VMware, China Mobile, AT&T, Amdocs, NOKIA

Scope

What is this release trying to address?

- 1, Align to S3P and security requirements and Architecture.
- 2, Fulfill functional requirements: [Distributed Analytics as a Service \(Dublin Summary\)](#) - [Edge Automation](#), [K8S based Cloud Region Support](#), [Continuation of HPA \(Dublin\)](#)
- 3, Expanding the infrastructure's support: [StarlingX](#), [Lenovo ThinkCloud](#)
- 4, Exploring the infrastructure's support: [CDI](#), [Accelerator Management](#)
- 5, Further integration with [SO](#)

Use Cases

CCVPN Use Case (Dublin)

vFW/vDNS

vCPE

Minimum Viable Product

Describe the MVP for this release.

- Minimize docker image footprint
- Security enhancement: secured communication
- Enable F-GPS support with capacity check on AZ level
- Add SDC client for MultiCloud services
- Add StaringX plugin
- Add ThinkCloud plugin
- Enhance the Azure plugin : Generic API for infra_workload LCM, vFW use case, etc.
- Enhance the K8S plugin : Generic API for infra_workload LCM, vFW use case, etc.
- Enhance WindRiver plugin: Support cloud region updating/auditing/etc.
- Enhance VIO plugin: support CCPVN usecase with DR capability

Stretch Goal








- Add MultiCloud Normalization service for EA functional requirement
- Further integration with SO: Generic API for extVL LCM, Generic API for VolumeGroup LCM
- CDI support: Change the project scope as [Updated Proposal of Multi VIM/Cloud \(Jan-17-2019\)](#)
- Accelerator Management Support
- Enhance WindRiver plugin: support CCVPN usecase with SFC LCM API,
- Enhance WindRiver plugin and OpenStack plugin: FCAPS enhancement with FM/PM collection on Infrastructure resources
- Secure credential storage for AAI cloud region
- Real-time capability as a cloud agnostic feature
- Support multiple tenants of a cloud region

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
MULTI CLOUD -451	MultiCloud Dublin release planning	⚡	Jan 19, 2019	Feb 14, 2019		Unassigned	None	==	CLOSED	Done
MULTI CLOUD -450	Enhance MutliCloud Documentation in Dublin Release	⚡	Jan 19, 2019	Jul 08, 2019		Unassigned	None	==	CLOSED	Done
MULTI CLOUD -448	Meet Security requirement on MultiCloud in Dublin Release	⚡	Jan 19, 2019	Jun 19, 2019		Unassigned	None	==	CLOSED	Done
MULTI CLOUD -447	Enhance MultiCloud registration capability	⚡	Jan 19, 2019	Jun 19, 2019		Unassigned	None	==	CLOSED	Done
MULTI CLOUD -446	Enhance FCAPS reporting capability	⚡	Jan 19, 2019	Jun 19, 2019		Unassigned	None	==	CLOSED	Done

MULTI CLOUD -445	S3P requirements to MultiCloud in Dublin Release		Jan 19, 2019	Jun 19, 2019	Unassigned	None	=	CLOSED	Done
MULTI CLOUD -444	Enable MultiCloud supports to F-GPS requirement		Jan 19, 2019	Apr 29, 2019	Unassigned	None	=	CLOSED	Done
MULTI CLOUD -443	Expanding supports to more infrastructures in Dublin Release		Jan 19, 2019	Jun 19, 2019	Unassigned	None	=	CLOSED	Done
MULTI CLOUD -442	Further integration of MultiCloud with SO in Dublin Release		Jan 19, 2019	Jun 19, 2019	Unassigned	None	=	CLOSED	Done
MULTI CLOUD -437	Enable MultiCloud supports to CCVPN in Dublin		Jan 16, 2019	Jul 08, 2019	Unassigned	None	=	CLOSED	Done
MULTI CLOUD -272	Edge Automation Functional Requirements - Cloud-agnostic Placement /Networking & Homing Policies (Phase 1 - Casablanca MVP, Phase 2 - Stretch Goal)		Jun 28, 2018	Jul 10, 2019	Unassigned	None	>	CLOSED	Done
MULTI CLOUD -259	Align to consistent ID of cloud regions across the all related ONAP projects		Jun 27, 2018	Jul 08, 2019	Unassigned	None	=	CLOSED	Done

12 issues

Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
MULTICL OUD-671	MultiCloud Release Note in Dublin		Jun 04, 2019	Jun 19, 2019		Unassigned	None	=	CLOSED	Done
MULTICL OUD-665	Clean Multicloud-vio code		May 30, 2019	Dec 12, 2019		Unassigned	None	=	CLOSED	Done
MULTICL OUD-648	Upgrade patch version to 1.3.3		May 23, 2019	May 28, 2019		Unassigned	None	=	CLOSED	Done
MULTICL OUD-597	integrate artifact broker into multicloud plugins		Apr 29, 2019	May 15, 2019		Unassigned	None	>	CLOSED	Done
MULTICL OUD-590	Upgrade patch version to 1.3.2		Apr 26, 2019	May 06, 2019		Unassigned	None	=	CLOSED	Done
MULTICL OUD-580	Update INFO.yaml in repo		Apr 22, 2019	Apr 29, 2019		Unassigned	None	=	CLOSED	Done
MULTICL OUD-572	Pairwise test: SO with windriver plugin		Apr 12, 2019	May 06, 2019		Unassigned	None	=	CLOSED	Done
MULTICL OUD-564	F-GPS support in multicloud vio plugin		Apr 03, 2019	Apr 12, 2019		Unassigned	None	=	CLOSED	Done
MULTICL OUD-533	Infra_workload API upgrade for better SO integration		Mar 19, 2019	Apr 08, 2019		Unassigned	None	=	CLOSED	Done
MULTICL OUD-527	Enhance multicloud API to support multi-tenants		Mar 13, 2019	Aug 12, 2023		Unassigned	None	=	CLOSED	Done
MULTICL OUD-523	Realize F-GPS support in multicloud		Mar 08, 2019	Aug 12, 2023		Unassigned	None	=	CLOSED	Done
MULTICL OUD-518	Enable https endpoints for multicloud services		Mar 07, 2019	Aug 12, 2023		Unassigned	None	=	CLOSED	Done

MULTICL OUD-510	artifact management development for SDC client and MultiCloud plugins		Mar 05, 2019	Apr 12, 2019	Unassigned	None		<button>CLOSED</button>	Done
MULTICL OUD-506	Add Lenovo ThinkCloud Driver To M-Cloud		Mar 04, 2019	Mar 19, 2019	Unassigned	None		<button>CLOSED</button>	Done
MULTICL OUD-504	Docker Image Footprint Optimization		Mar 04, 2019	Aug 12, 2023	Unassigned	None		<button>CLOSED</button>	Done
MULTICL OUD-503	Upgrade onaplog version to 1.0.8		Mar 01, 2019	Mar 01, 2019	Unassigned	None		<button>CLOSED</button>	Done
MULTICL OUD-502	KRD should not instantiate K8S plugin		Feb 27, 2019	Jul 10, 2019	Unassigned	None		<button>CLOSED</button>	Done
MULTICL OUD-499	FCAPS enhancement for OpenStack		Feb 22, 2019	Mar 11, 2019	Unassigned	None		<button>CLOSED</button>	Done
MULTICL OUD-492	Security requirement: MultiCloud Service run as non root user		Feb 19, 2019	Aug 12, 2023	Unassigned	None		<button>CLOSED</button>	Done
MULTICL OUD-486	design the enhancement of infra_workload API to support SO integration		Feb 18, 2019	Mar 19, 2019	Unassigned	None		<button>CLOSED</button>	Done

Showing 20 out of 34 issues

Longer term roadmap

Indicate at a high level the longer term roadmap. This is to put things into the big perspective.

Release Deliverables

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

Deliverable Name	Deliverable Description
Docker Images	Docker images for all Multi-VIM/Cloud components
Documentations	Developer and user documentations for all Multi-VIM/Cloud components
Maven Artifacts	Maven Artifacts for all Multi-VIM/Cloud components
Release Note	Release Note cover all Multi-VIM/Cloud components
Source Code	Source code for all Multi-VIM/Cloud components

Sub-Components

List all sub-components part of this release.

Activities related to sub-components must be in sync with the overall release.

Sub-components are repositories and are consolidated in a single centralized place. Edit the [Release Components name for your project](#) in the centralized page.

Architecture

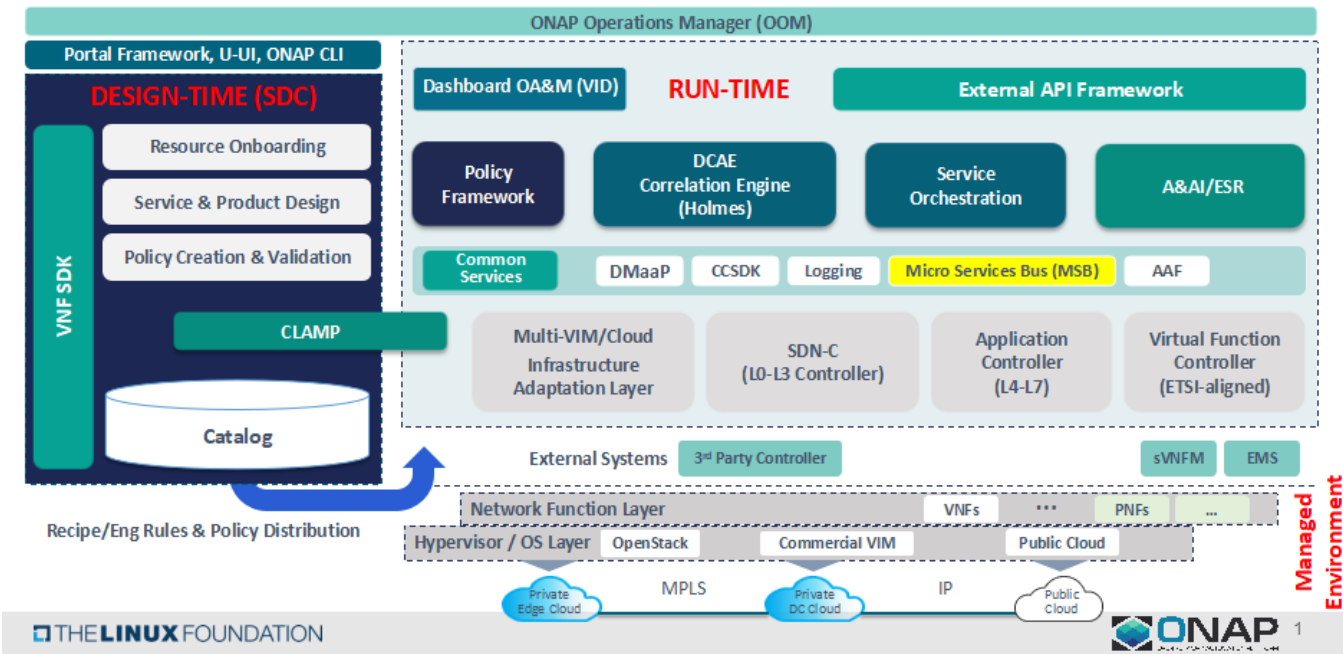
High level architecture diagram

At that stage within the Release, the team is expected to provide more Architecture details describing how the functional modules are interacting.

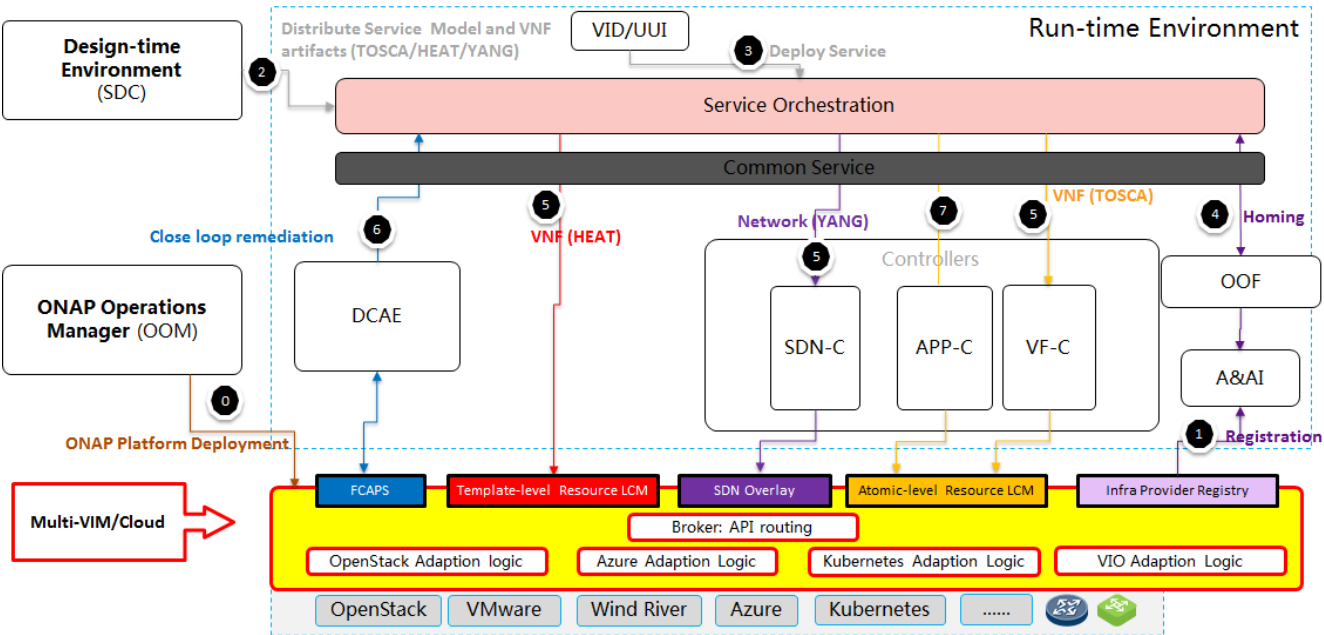
Indicate where your project fit within the ONAP Architecture diagram.

Block and sequence diagrams showing relation within the project as well as relation with external components are expected. Anyone reading this section should have a good understanding of all the interacting modules.

The Diagram below shows how Multi-VIM/Cloud fits into ONAP architecture in a high level view



The Diagram below depicts the interaction between Multi-VIM/Cloud and related ONAP components



Platform Maturity

Referring to [CII Badging Security Program](#) and [Platform Maturity Requirements](#), fill out the table below by indicating the actual level , the targeted level for the current release and the evidences on how you plan to achieve the targeted level.

Area	Actual Level	Targeted Level for current Release	How, Evidences	Comments
Performance	1	1	show basic performance profiling data in log	<ul style="list-style-type: none">0 -- none1 – baseline performance criteria identified and measured2 & 3 – performance improvement plans created & implemented
Stability	1	1	72 hours component level soak w /random transactions	<ul style="list-style-type: none">0 – none1 – 72 hours component level soak w/random transactions2 – 72 hours platform level soak w/random transactions3 – 6 months track record of reduced defect rate
Resiliency	2	2	automated detection and auto recovery with help of OOM	<ul style="list-style-type: none">0 – none1 – manual failure and recovery (< 30 minutes)2 – automated detection and recovery (single site)3 – automated detection and recovery (geo redundancy)
Security	1	1	CII passing badge, passing 50% tests	<ul style="list-style-type: none">0 – none1 – CII Passing badge + 50% Test Coverage2 – CII Silver badge; internal communication encrypted; role-based access control and authorization for all calls3 – CII Gold
Scalability	1	1	Stateless micro-services allows single site horizontal scaling.	<ul style="list-style-type: none">0 – no ability to scale1 – single site horizontal scaling2 – geographic scaling3 – scaling across multiple ONAP instances
Manageability	1	1	consistent logging settings and facility	<ul style="list-style-type: none">1 – single logging system across components; instantiation in < 1 hour2 – ability to upgrade a single component; tracing across components; externalized configuration management
Usability	1	1	Provide all the required documentation.	<ul style="list-style-type: none">1 – user guide; deployment documentation; API documentation2 – UI consistency; usability testing; tutorial documentation

• 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)
eventListener/v5	VES collector event publish APIs	N/A since It is ready now	N/A since It is ready now	https://wiki.onap.org/download/attachments/13599708/ves.html?version=1&modificationDate=1503378662000&api=v2

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)
OpenStack Proxy endpoint	OpenStack APIs (align to newton release) with proxied endpoints exposed by each plugin (OpenStack, VIO)	Ready Since Amsterdam Release	Ready Since Amsterdam Release	Exposed via Swagger of each plugin
VFC oriented APIs	abstract APIs for VFC which is inherited from OPENO for each plugin (OpenStack, VIO)	Ready Since Amsterdam Release	Ready Since Amsterdam Release	Exposed via Swagger of each plugin
OOF oriented APIs	Capacity check to filter out those underlying VIM/Cloud without adequate resources for VNF placement	Ready Since Beijing Release	Ready Since Beijing Release	Exposed via Swagger of broker
VIM/Cloud LCM API	Registry API is used to discover infrastructure's resources, including HPA and register them into AAI	Ready Since Amsterdam Release	Ready Since Amsterdam Release	Exposed via Swagger of broker and each plugin
FCAPS configuration API	FCAPS configuration API is to provision VESagent with VES collector endpoint, metric to collect, event to report, etc.	Ready Since Beijing Release	Ready Since Beijing Release	Exposed via Swagger of each plugin
SO oriented APIs	Generic API for SO to adapt to various VIM/Cloud type with MultiCloud plugin	Dublin	Dublin	TBD

• 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
memcached	Memcached is an in-memory key-value store for small chunks of arbitrary data (strings, objects)	1.4.33-1
rabbitmq-server	RabbitMQ is an implementation of AMQP, the emerging standard for high performance enterprise messaging. The RabbitMQ server is a robust and scalable implementation of an AMQP broker	3.6.6-1
uwsgi	uWSGI is a fast, self-healing and developer/sysadmin-friendly application container server	2.0.17
celery	Celery is an asynchronous task queue based on distributed message passing	4.0
keystoneauth1	library for authenticating to an OpenStack-based cloud	2.18.0
Django	A high-level Python Web framework that encourages rapid development and clean, pragmatic design.	1.9.6
djangorestframework	A powerful and flexible toolkit for building Web APIs	3.3.3
httplib2	A comprehensive HTTP client library, httplib2 supports many features left out of other HTTP libraries.	0.9.2
python-memcached	a Python interface to the memcached memory cache daemon	1.59
onappyllog	onap python logging library	1.0.6

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

• Testing and Integration Plans

Provide a description of the testing activities (unit test, functional test, automation,...) that will be performed by the team within the scope of this release.

Describe the plan to integrate and test the release deliverables within the overall ONAP system.

Confirm that resources have been allocated to perform such activities.

- Unit Test: 50% above coverage
- Functional test: CSIT to cover major functionalities
- Integration test: Support integration team to provide the end to end integration test.
- All the above should be automation tests run on the LF Jenkins Infrastructure.

• 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
N/A	N/A

• Known Defects and Issues

Provide a link toward the list of all known project bugs.

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
MULTICL OUD-1503	Python Code Updates: Multicloud (MULTICLOUD)		May 15, 2023	May 15, 2023		Unassigned	Matthew Watkins		OPEN	Unresolved
MULTICL OUD-1498	Kohn Release Note not updated		Nov 30, 2022	Dec 05, 2022		Unassigned	Thomas Kulik		OPEN	Unresolved
MULTICL OUD-1459	Multicloud-k8s dockers contain GPLv3		Mar 23, 2022	Oct 24, 2022		Lukasz Rajewski	None		OPEN	Unresolved
MULTICL OUD-1349	Multicloud starlingx CSIT inappropriately pulls "latest" image for testing		May 17, 2021	Jun 03, 2022		Unassigned	None		OPEN	Unresolved
MULTICL OUD-1331	Instance status update failure		Apr 13, 2021	Sep 22, 2021		Unassigned	None		OPEN	Unresolved
MULTICL OUD-1330	Consul operation interface problems		Apr 12, 2021	Sep 22, 2021		Unassigned	None		OPEN	Unresolved
MULTICL OUD-1329	Redundant data in MongoDB created		Apr 12, 2021	Sep 22, 2021		Unassigned	None		OPEN	Unresolved
MULTICL OUD-1158	adding profile per application post giving 301 when null is provided		Jul 30, 2020	Jul 30, 2020		Unassigned	None		OPEN	Unresolved
MULTICL OUD-1119	Connectivity info shouldn't allowed to be deleted, if any instance is provisioned.		Jul 06, 2020	Sep 22, 2021		Unassigned	None		OPEN	Unresolved
MULTICL OUD-1079	Multicloud openstack pike fails getting openstack resources to AAI		Jun 04, 2020	Sep 22, 2021		Unassigned	None		OPEN	Unresolved
MULTICL OUD-734	config not updated on redistribution		Jul 23, 2019	Jun 03, 2022		Unassigned	None		OPEN	Unresolved
MULTICL OUD-680	K8S plugin should register a tenant on cloud registration		Jun 18, 2019	Aug 12, 2023		Unassigned	None		OPEN	Unresolved
MULTICL OUD-601	move to sigs yaml from ghodss		May 02, 2019	Apr 17, 2021		Unassigned	None		OPEN	Unresolved

13 issues

• Risks

List the risks identified for this release along with the plan to prevent the risk to occur (mitigation) and the plan of action in the case the risk would materialized (contingency).

Risk identified	Mitigation Plan	Contingency Plan
To fill out	To fill out	To fill out

• Resources

Fill out [the Resources Committed to the Release](#) centralized page.

• Release Milestone

The milestones are defined at the [Release Level](#) 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

- Highlight the team contributions to the specific document related to the project (Config guide, installation guide...).
- Highlight the 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](#).