Integration R2 Release Planning

- 1 Overview
- 2 Scope
  - 2.1 What is this release trying to address?
  - 2.2 Use Cases
  - 2.3 Minimum Viable Product
  - 2.4 Functionalities
    - 2.4.1 Epics
    - 2.4.2 Stories
  - 2.5 Longer term roadmap
- 3 Release Deliverables
- 4 Sub-Components
- 5 Architecture
  - 5.1 High level architecture diagram
  - 5.2 Platform Maturity
  - 5.3 API Outgoing Dependencies
  - 5.4 Third Party Products Dependencies
- 6 Testing and Integration Plans
- 7 Gaps
- 8 Known Defects and Issues
- 9 Risks
- 10 Resources
- 11 Release Milestone
- 12 Team Internal Milestone
- 13 Documentation, Training
- 14 Other Information
  - 14.1 Vendor Neutral
  - 14.2 Free and Open Source Software

Overview

Project Name	Enter the name of the project
Target Release Name	Beijing
Project Lifecycle State	Incubation
Participating Company	Huawei, AT&T, China Mobile, China Telcom, Orange, VMware, Wind River, Amdocs, ZTE, TechMahindra

Scope

What is this release trying to address?

Based on the vFW / vDNS, vCPE and VoLTE use cases, this project will provide cross-project system integration, CI/CD, and all related end-to-end release use cases testing with VNFs necessary for the successful delivery and industry adaption of the ONAP project as a whole. The same Amsterdam use cases with be tested with more automation, with additional emphasis on platform stability and performance, and the three new functionalities (CM, Auto scaling, HPA). In addition, ensure the platform is stable as installed and deployed via OOM, if viable.

Use Cases

No new use cases. Instead the same use cases as Amsterdam will be tested using more automation and with additional emphasis on platform stability and performance. Test that the same use cases still work when ONAP is deployed via OOM.

- vFW
- vDNS
- vCPE
- VoLTE

Minimum Viable Product

- CI/CD
- Automatic unit testing, CSIT testing, and end-to-end testing
- Guidelines, frameworks, or best practice recommendations on S3P testing for ONAP project teams.

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
INT-2271	Enhancements for RAN-Sim for New Delhi release		Dec 05, 2023	Jan 09, 2024		Unassigned	None	=	OPEN	Unresolved
INT-2270	Temporary resurection of Azure gating		Dec 05, 2023	Dec 05, 2023		Unassigned	None	=	OPEN	Unresolved
INT-2265	Release Candidate		Oct 30, 2023	Dec 05, 2023	Nov 09, 2023	Unassigned	None	=	CLOSED	Done
INT-2241	Enhancements for RAN-Sim for Montreal release		May 23, 2023	Jan 09, 2024		Unassigned	None	=	CLOSED	Done
INT-2229	Release Candidate		May 05, 2023	Dec 05, 2023	Apr 20, 2023	Unassigned	None	=	CLOSED	Done
INT-2227	Release Sign Off		May 05, 2023	Dec 05, 2023	May 11, 2023	Unassigned	None	=	CLOSED	Done
INT-2215	Feature Freeze		Mar 30, 2023	Dec 05, 2023	Mar 23, 2023	Unassigned	None	=	CLOSED	Done
INT-2196	Finalized Code Submission		Feb 10, 2023	Dec 05, 2023	Mar 02, 2023	Unassigned	None	=	CLOSED	Done
INT-2190	Specification Freeze		Jan 13, 2023	Dec 05, 2023	Feb 09, 2023	Unassigned	None	=	CLOSED	Done
INT-2171	Global Requirements Approval		Nov 03, 2022	Dec 05, 2023	Dec 01, 2022	Unassigned	None	=	CLOSED	Done
INT-2169	Global Requirements Approval		Nov 03, 2022	Nov 03, 2022	Jun 09, 2022	Unassigned	None	=	CLOSED	Won't Do
INT-2166	Release Sign Off		Oct 27, 2022	Dec 05, 2023	Nov 10, 2022	Unassigned	None	=	CLOSED	Done
INT-2155	Release Candidate		Oct 03, 2022	Dec 05, 2023	Oct 20, 2022	Unassigned	None	=	CLOSED	Done
INT-2150	Migrate Orange CICD Gitlab Projects to LFN/ONAP		Sep 16, 2022	Dec 04, 2023		Unassigned	Andreas Geissler	=	CLOSED	Won't Do
INT-2143	Feature Freeze		Sep 02, 2022	Dec 05, 2023	Sep 15, 2022	Unassigned	None	=	CLOSED	Done
INT-2137	Finalized Code Submission		Jul 19, 2022	Jul 19, 2022	Sep 01, 2022	Unassigned	None	=	OPEN	Unresolved
INT-2122	Specification Freeze		Jun 27, 2022	Dec 05, 2023	Jun 30, 2022	Unassigned	None	=	CLOSED	Done
INT-2113	Release Sign Off		May 16, 2022	Dec 05, 2023	May 05, 2022	Unassigned	None	=	CLOSED	Done
INT-2110	Global Requirements Approval		May 09, 2022	May 09, 2022	May 26, 2022	Unassigned	None	=	OPEN	Unresolved
INT-2098	Release Candidate		Mar 31, 2022	May 26, 2022	Apr 21, 2022	Unassigned	None	=	CLOSED	Done

Showing 20 out of 127 issues

Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
INT-2276	Create custom docker image with tools required by the gating pipeline		Dec 05, 2023	Dec 05, 2023		Unassigned	None	=	IN PROGRESS	Unresolved
INT-2275	Switch the gating pipeline to use helm and kubectl from the image		Dec 05, 2023	Dec 05, 2023		Unassigned	None	=	IN PROGRESS	Unresolved
INT-2274	Remove the preinstalation steps from gating pipeline		Dec 05, 2023	Dec 05, 2023		Unassigned	None	=	IN PROGRESS	Unresolved
INT-2273	Remove mandatory OS and infra checks before gating run		Dec 05, 2023	Dec 05, 2023		Unassigned	None	=	IN PROGRESS	Unresolved
INT-2272	Remove the need for existing pipeline runs in gating		Dec 05, 2023	Dec 05, 2023		Unassigned	None	=	IN PROGRESS	Unresolved
INT-2253	Add statusMessage of orchestrationRequest to onapsdk		Jun 21, 2023	Dec 14, 2023		Unassigned	None	=	CLOSED	Done
INT-2250	Integrate PNF-deletion and adding instance-parameters for service-instantiation (python-onapsdk)		Jun 16, 2023	Jun 21, 2023		Unassigned	None	=	CLOSED	Done
INT-2214	Update reference docker images for java and python		Mar 23, 2023	May 04, 2023		Lukasz Rajewski	Lukasz Rajewski	=	IN PROGRESS	Unresolved
INT-2207	Configure gating azure3 on chained_ci after move to LFN		Mar 01, 2023	Dec 05, 2023		Unassigned	None	=	CLOSED	Not Done
INT-2205	Update ONAP SDK to support uploading of neighbor information to AAI		Feb 28, 2023	Apr 28, 2023		Unassigned	None	˅	CLOSED	Done
INT-2179	Create CPS anchor nodes using ODP		Dec 12, 2022	Apr 28, 2023		Unassigned	None	=	CLOSED	Done
INT-2175	Use the latest JSON Schema on ONAP data provider		Nov 23, 2022	Apr 28, 2023		Unassigned	None	=	CLOSED	Done
INT-2168	Run Python ONAP SDK tests using Python 3.11		Nov 03, 2022	Apr 28, 2023		Unassigned	None	=	CLOSED	Done
INT-2152	Helm version revision for testsuite components		Sep 21, 2022	May 04, 2023		Unassigned	None	=	IN PROGRESS	Unresolved
INT-2127	RAN-Sim Updates for SON Use Case Kohn Release		Jun 28, 2022	Nov 21, 2022		Unassigned	None	=	CLOSED	Done
INT-2104	[SECCOM] INT fix root_pods in Jakarta release		Apr 06, 2022	May 26, 2022		Unassigned	Pawe Pawlak	^^	CLOSED	Done
INT-2083	Request For Azure Access		Mar 04, 2022	Mar 31, 2022		Unassigned	None	=	CLOSED	Done
INT-1938	Upgrade oparent with latest dependencies for Istanbul release		Jun 25, 2021	Jun 29, 2021		Unassigned	None	=	CLOSED	Done
INT-1906	Add documentation for the simulator wrapper		Apr 12, 2021	Sep 21, 2021		Unassigned	None	˅	CLOSED	Done
INT-1895	Migrate DCAE testsuite to use helm based component services		Mar 23, 2021	Jun 21, 2022		Unassigned	None	^	CLOSED	Done

Showing 20 out of 454 issues

Longer term roadmap

It provides all the cross-project infrastructure framework and DevOps toolchain (Continuous Integration, etc.), code and scripts, best practice guidance, benchmark and testing reports and white papers related to:

- Cross-project Continuous System Integration Testing (CSIT)
- End-to-End (ETE) release use cases testing with VNFs with repeatability
- Service design for end-to-end release use cases
- Continuous Distribution (CD) to ONAP community integration labs
- Reference VNFs that can be used to show how the ONAP platform handles
    - VNF installation and
    - VNF life cycle management
    - VNF Requirement compliance

Release Deliverables

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

Deliverable Name	Deliverable Description
To fill out	To fill out

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 Archiecture 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.

Platform Maturity

Refering 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	N/A			• 0 -- none • 1 – baseline performance criteria identified and measured • 2 & 3 – performance improvement plans created & implemented
Stability	N/A			• 0 – none • 1 – 72 hours component level soak w/random transactions • 2 – 72 hours platform level soak w/random transactions • 3 – 6 months track record of reduced defect rate

Resiliency	N/A			• 0 – none • 1 – manual failure and recovery (< 30 minutes) • 2 – automated detection and recovery (single site) • 3 – automated detection and recovery (geo redundancy)
Security	N/A			• 0 – none • 1 – CII Passing badge + 50% Test Coverage • 2 – CII Silver badge; internal communication encrypted; role-based access control and authorization for all calls • 3 – CII Gold
Scalability	N/A			• 0 – no ability to scale • 1 – single site horizontal scaling • 2 – geographic scaling • 3 – scaling across multiple ONAP instances
Manageability	N/A			• 1 – single logging system across components; instantiation in < 1 hour • 2 – ability to upgrade a single component; tracing across components; externalized configuration management
Usability	N/A			• 1 – user guide; deployment documentation; API documentation • 2 – 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)
To fill out	High level description of the API	Date for which the API is reviewed and agreed	To fill out	Link toward the detailed API description

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)
To fill out	High level description of the API	Date for which the API is reviewed and agreed	To fill out	Link toward the detailed API description

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
Robot	Testing framework	
Jenkins	CI/CD tool	
Openstack	Cloud OS	
Docker	Container platform	
JMeter	Performance Testing tool	
Chaos Monkey	Resilience Testing tool	

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.

The goal is to automate all the unit testing, CSIT testing, and end-to-end testing in release Amsterdam. The detailed test roles and responsibilities are listed below.

Types of Testing	Dev. Team	CSIT Team	E2E Team	S3P Team
Usability Testing	x			
Unit Testing	x			
Stability Testing				x
Security Testing				x
Scalability Testing				x
Regression Testing	x	x	x	x
Recovering Testing			x	x
Performance Testing				x
Integration/Pair-Wise Testing		x		
Install/Uninstall Testing	x			
Feature/Functional Testing	x			
End-to-End Testing			x	
Application Testing	x			
Acceptance Testing		x	x	

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

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

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
INT-2278	ModelInvariantId is not provided in pnf-instantiation in onapsdk		Dec 14, 2023	Dec 14, 2023		Unassigned	None	=	OPEN	Unresolved
INT-2277	ONAPSDK CPS API schema-set creation fix		Dec 13, 2023	Dec 14, 2023		Unassigned	None	=	IN PROGRESS	Unresolved
INT-2269	pnf-simulator /netconfsimulator: server certificate expired		Nov 15, 2023	Nov 15, 2023		Unassigned	None	=	OPEN	Unresolved
INT-2257	Fix root user and nodeport exeption for SNMP trap collector		Jun 28, 2023	Jun 28, 2023		Andreas Geissler	Andreas Geissler	=	OPEN	Unresolved
INT-2248	Documentation linking check error		Jun 13, 2023	Jun 14, 2023		Unassigned	None	=	CLOSED	Done

INT-2238	Python Code Updates: Integration (INT)		May 15, 2023	Jun 01, 2023	Unassigned	Matthew Watkins		CLOSED	Done
INT-2237	Gating tests won't start due to ssl cipher missmatch		May 11, 2023	May 11, 2023	Unassigned	None		CLOSED	Done
INT-2220	Doc link tests are failing on dcaemod.robot		Apr 13, 2023	Apr 13, 2023	Unassigned	None		CLOSED	Done
INT-2209	Testing		Mar 14, 2023	Mar 14, 2023	Unassigned	None		CLOSED	Not a Bug
INT-2206	vfc-gvnfm-vnflcm-master Jenkins Job failing		Mar 01, 2023	Mar 16, 2023	Unassigned	None		CLOSED	Done
INT-2204	vfc-nfvo-lcm-master-csit		Feb 27, 2023	Feb 27, 2023	Unassigned	None		CLOSED	Done
INT-2202	vnfsdk-refrepo-master-csit-testsuites failing		Feb 17, 2023	Feb 27, 2023	Unassigned	None		CLOSED	Done
INT-2201	oom-platform-cert-service-master-csit-postprocessor jenkins job failing		Feb 16, 2023	Feb 17, 2023	Unassigned	None		CLOSED	Done
INT-2200	integration-master-csit-vCPE Jobs failing due to Python upgrade		Feb 15, 2023	Feb 15, 2023	Unassigned	None		CLOSED	Done
INT-2199	Dcaegen2 Jenkins jobs are failing		Feb 13, 2023	Feb 27, 2023	Unassigned	None		CLOSED	Done
INT-2183	[CMPV2] Fix missing bitnami mongodb chart		Dec 21, 2022	May 04, 2023	Unassigned	None		OPEN	Unresolved
INT-2178	update vFW scripts		Dec 08, 2022	May 04, 2023	Lukasz Rajewski	Mahsa Akay		IN PROGRESS	Unresolved
INT-2174	fix doc config files in master and kohn branch		Nov 10, 2022	Nov 22, 2022	Unassigned	None		CLOSED	Done
INT-2163	Robot healtchecks cannot handle http address of DMAAP_BC		Oct 17, 2022	Oct 17, 2022	Unassigned	Andreas Geissler		OPEN	Unresolved
INT-2160	Smoke usecase robot tests are failing		Oct 04, 2022	May 04, 2023	Unassigned	None		OPEN	Unresolved

Showing 20 out of 405 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 erecommended 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 he 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.