SDNC Kohn Release Planning

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

Overview

Project Name	Enter the name of the project
Target Release Name	Kohn
Project Lifecycle State	Mature
Participating Companies	AT&T, Bell Canada, CapGemini, Fujitsu, Ericsson, IBM, Huawei, Nokia, Orange, Samsung, Tech Mahindra, Wipro

Scope

What is this release trying to address?

The Jakarta release contains a number of enhancements primarily centered around 5G use cases and ORAN integration.

We are completing work begun in the Guilin release to create a springboot-based microservice which will offer the SLI-API (used by healthcheck) and GENERIC-RESOURCE-APIs. We will regression test our GR-API flows against both the current, OpenDaylight based implementation and the springboot-based version to validate that backward compatibility has been maintained.

Requirements

The following table lists the new functional requirements SDNC is committing to support for the Kohn Release:

Requirements	Companies Supporting Requirement
REQ-1212 - Getting issue details... STATUS	CapGemini
REQ-1215 - Getting issue details... STATUS	Wipro

REQ-1268 - Getting issue details... STATUS	Huawei

Minimum Viable Product

The following epics represent the minimum viable product of the SDNC Kohn Release:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution

No issues found

The following epics are also in scope for Jakarta, but are not considered of the minimum viable product. In the event of unanticipated resource constraints, these could be reduced in scope or deferred without impacting any functionality deemed by the TSC as critical for Kohn

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SDNC-1755	Global Requirements Approval	⚡	Nov 03, 2022	Nov 03, 2022	Jun 09, 2022	Dan Timoney	None	=	CLOSED	Won't Do
SDNC-1727	Upgrade to OpenDaylight Sulfur release	⚡	Aug 03, 2022	Jun 03, 2024		Dan Timoney	Dan Timoney	=	CLOSED	Done

2 issues

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

The following epics are committed for the SDNC Kohn Release:

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution

No issues found

The following epics are also in scope for Kohn, but are not considered of the minimum viable product. In the event of unanticipated resource constraints, these could be reduced in scope or deferred without impacting any functionality deemed by the TSC as critical for Istanbul.

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SDNC-1755	Global Requirements Approval	⚡	Nov 03, 2022	Nov 03, 2022	Jun 09, 2022	Dan Timoney	None	=	CLOSED	Won't Do
SDNC-1727	Upgrade to OpenDaylight Sulfur release	⚡	Aug 03, 2022	Jun 03, 2024		Dan Timoney	Dan Timoney	=	CLOSED	Done

2 issues

Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SDNC-1729	Upgrade sdnc/oam to ODL Sulfur	🔖	Aug 03, 2022	Nov 01, 2022		Dan Timoney	Dan Timoney	=	CLOSED	Done
SDNC-1728	Upgrade sdnc/northbound to ODL Sulfur	🔖	Aug 03, 2022	Jun 03, 2024		Dan Timoney	Dan Timoney	=	CLOSED	Done
SDNC-438	Support multiple vGMUXes in vCPE use case	🔖	Sep 11, 2018	Mar 30, 2022		Dan Timoney	None	=	IN PROGRESS	Unresolved

3 issues

Bugs

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SDNC-1765	SDNC not starting with SDNR features	🟥	Dec 08, 2022	Dec 13, 2022		Herbert Eiselt	Herbert Eiselt	=	CLOSED	Done
SDNC-1763	Kohn Release Note not updated	🟥	Nov 30, 2022	Jan 04, 2023		Dan Timoney	Thomas Kulik	=	CLOSED	Done
SDNC-1754	fix doc config files in master and kohn branch	🟥	Oct 31, 2022	Nov 29, 2022		Dan Timoney	Thomas Kulik	⌃	CLOSED	Done
SDNC-1726	Replace-VNF-Macro Fails : ChangeModelVNF : with 'changeassign' not valid operation in SDNC	🟥	Aug 03, 2022	Jun 03, 2024		Dan Timoney	SANKET KS	=	CLOSED	Done
SDNC-1702	Robot test suite: SSHException: Error reading SSH protocol banner	🟥	May 10, 2022	May 10, 2022		Alexander Dehn	Alexander Dehn	=	CLOSED	Done
SDNC-1628	sdnc-callhome detected as exposed non ssl port	🟥	Oct 22, 2021	Sep 02, 2022		Dan Timoney	None	⌃	IN PROGRESS	Unresolved
SDNC-1380	Mount point already exists exception	🟥	Oct 13, 2020	Mar 30, 2022		Michael Dürre	Herbert Eiselt	=	REOPENED	Unresolved
SDNC-1368	SDNC/CCSDK dockers contain GPLv3	🟥	Sep 25, 2020	Oct 12, 2022		Dan Timoney	None	⌃	REOPENED	Won't Do
SDNC-977	backupMdsal.sh and restore need -k and https 8443	🟥	Nov 15, 2019	Mar 30, 2022		Dan Timoney	None	=	IN PROGRESS	Unresolved

9 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, etc) of this release.

Deliverable Name	Deliverable Description	Deliverable Location
SDNC Source Code	Source code for SDNC project	ONAP gerrit
SDNC Maven Artifacts	Compiled code that can be referenced in other projects as maven dependencies	ONAP Nexus

SDNC Docker Containers	Docker containers associated with SDNC project: • Controller (OpenDaylight) container • Database container • Directed Graph Builder container	ONAP Nexus
Documentation	User and developer guides	ONAP Wiki
SDNC CI/CD automation	Scripts to automate compilation and deployment of maven artifacts and docker containers	ONAP gerrit ONAP Jenkins

Sub-Components

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:sdnc

ONAP Dependencies

SDN-C depends on the following projects:

- Active and Available Inventory (A&AI)
- Common Controller SDK (CCSDK).
- Service Design and Creation (SDC)
- Data Movement as a Platform (DMaaP)
- Documentation
- Integration
- External API
- Modeling
- Multi VIM/Cloud
- Policy

Architecture

High level architecture diagram

The following diagram shows the high level architecture of SDNC:
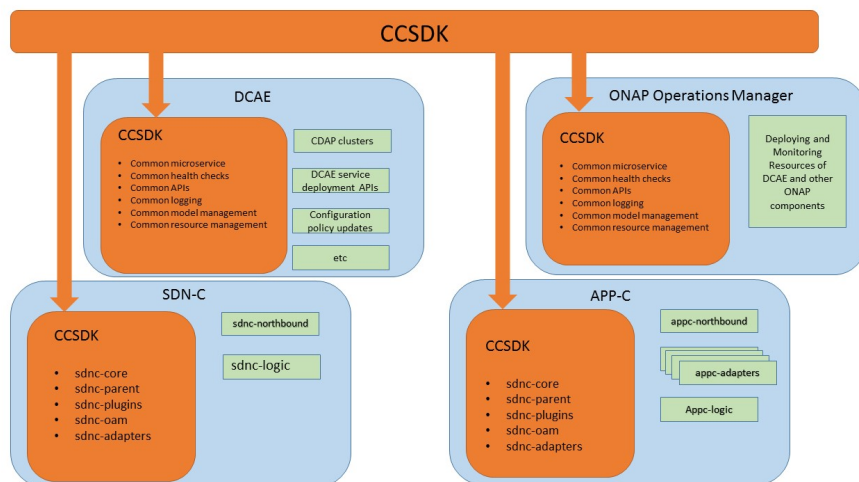
The major architectural components of the SDN-C controller are:

- Device Data Models : Yang models that define interfaces to devices (virtual or physical) that the SDNC configures
- Service Network Data Models : Yang models that define data maintained within the SDNC about the network used by the set of services supported by this SDNC instance
- Service Chain Data Models : Yang models that define how services supported by an SDNC instance can be chained
- Service Data Models : Yang models that define data maintained within the SDNC for the set of services it supports
- Directed Graphs : programmable logic, updatable at run time with no restart, that define the behavior of the SDNC
- Service Logic Interpreter : module provided by CCSDK which allows platform to execute directed graphs

- API Handler : code (mostly generate from service Yang models) which implements RESTCONF API into SDNC. Most API handlers should follow the following pattern:
  - Call directed graph named after invoked RPC, passing RESTCONF RPC parameters as Java Properties object.
  - Return results from directed graph invocation as response to RESTCONF RPC
- Interface adaptors - code that allows directed graphs to invoke external interfaces

Platform Maturity

Please fill out the centralized wiki page: Kohn Release Platform Maturity

API Incoming Dependencies

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)
A&AI : VNF	API used to read/write information about VNFs	Defined in seed code	Included in seed code	TBD
SDC : distribution	API used to distribute artifacts from SDC to subscribers	Defined in seed code	Included in seed code	TBD
DMaaP	API used to receive DHCP event notification	8/23/17	8/23/17	DMaaP API

API Outgoing Dependencies

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)
Healthcheck	API used to verify that platform is available and healthy	Included in seed code	Delivered in seed code	TBD (requested Confluence OPEN API to be installed so this can be published on ONAP Wiki)
Generic Resource API	API used to request resources for VNFs. This API is a superset of the generic VNF API, which it replaces	Included in Amsterdam release	Delivered in Amsterdam	TBD (requested Confluence OPEN API to be installed so this can be published on ONAP Wiki)

Third Party Products Dependencies

Name	Description	Version
OpenDaylight	OpenDaylight SDN Controller Platform	Sulfur SR1

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.

By M3,

- All review comments addressed / reviews merged
- All repos >= 55% code coverage
- Healthchecks pass
- CSIT tests pass

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 the "Bugs" section above

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).

Please update any risk on the centralized wiki page - Kohn 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:sdnc

Release Milestone

The milestones are defined at the Release Planning: Kohn and all the supporting project agreed to comply with these dates.

Team Internal Milestone

Milestone	Description	Date	Comments
M2	Spec Freeze	21 Jul 2022	
M3	Final Code Submission	01 Sep 2022	**Last date for code reviews to be submitted for Kohn user stories**
M4	Feature Freeze		
	• Code ready for release build	09 Sep 2022	• All review comments addressed / reviews merged • All repos >= 55% code coverage • Healthchecks pass • CSIT tests pass
	• M4 release builds complete, helm charts updated to M4 version	13 Sep 2022	
	• **TSC M4 approval vote**	15 Sep 2022	Released dockers must be built and code reviews submitted to OOM to bump to Jakarta M4 versions
RC	Release Candidate		
	• Code due for RC fixes	14 Oct 2022	**Last date to submit code fixes for Kohn RC**
	• RC release builds complete, helm charts updated to M4 version	18 Oct 2022	
	• **TSC RC approval vote**	**20 Oct 2022**	
Release Sign-Off	Final TSC Sign-Off	**10 Nov 2022**	Kohn Release Sign-Off

Documentation, Training

Please update the following centralized wiki: Kohn Documentation

That includes

- Team contributions to the specific document related to he 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.