Release Planning Template : SDNC Amsterdam Release

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.

Overview

Project Name	Enter the name of the project
Target Release Name	Amsterdam
Project Lifecycle State	Incubation
Participating Company	AT&T, Huawei, ZTE, China Mobile, AMDOCS, Intel, Orange, Coriant, Bell Canada, Tech Mahindra, Brocade

Scope

What is this release trying to address?

The SDN-C project provides a global network controller, built on the Common Controller SDK, which manages, assigns and provisions network resources. As a "global" controller, the SDN-C project is intended to run as one logical instance per enterprise, with potentially multiple geographically diverse virtual machines / docker containers in clusters to provide high availability. The project also will support the ability to invoke other local SDN controllers, including third party SDN controllers.

In the Amsterdam release, the SDN-C project will be used to manage, assign and provision network resources for the Amsterdam release use cases, listed in the Use Cases section below.

Use Cases

The use cases supported in the Amsterdam release are:

- Virtual Domain Name Server (vDNS)
- Virtual Firewall (vFW)
- Virtual Voice over LTE (vVoLTE)
- Virtual Customer Premise Equipment (vCPE)

Minimum Viable Product

The Minimum Viable Product for Amsterdam is the set of capabilities needed to support the use cases listed above.

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
SDNC-1832	Remove ODLUX web services from SDNR		Nov 20, 2023	Mar 01, 2024		Herbert Eiselt	Herbert Eiselt	=	CLOSED	Done
SDNC-1825	Release Candidate		Oct 30, 2023	Nov 29, 2023	Nov 09, 2023	Dan Timoney	None	=	CLOSED	Done
SDNC-1815	Upgrade to OpenDaylight Argon release		Aug 10, 2023	Aug 11, 2023		Dan Timoney	Dan Timoney	=	SUBMITTED	Unresolved
SDNC-1802	Release Candidate		May 05, 2023	Jun 15, 2023	Apr 20, 2023	Dan Timoney	None	=	CLOSED	Done
SDNC-1799	Release Sign Off		May 05, 2023	Jun 26, 2023	May 11, 2023	Dan Timoney	None	=	CLOSED	Done
SDNC-1788	Feature Freeze		Mar 30, 2023	Jun 14, 2023	Mar 23, 2023	Dan Timoney	None	=	CLOSED	Done
SDNC-1777	Finalized Code Submission		Feb 10, 2023	Apr 04, 2023	Mar 02, 2023	Dan Timoney	None	=	CLOSED	Done
SDNC-1767	Specification Freeze		Jan 13, 2023	Feb 07, 2023	Feb 09, 2023	Dan Timoney	None	=	CLOSED	Done
SDNC-1759	Global Requirements Approval		Nov 03, 2022	Jan 03, 2023	Dec 01, 2022	Dan Timoney	None	=	CLOSED	Done
SDNC-1755	Global Requirements Approval		Nov 03, 2022	Nov 03, 2022	Jun 09, 2022	Dan Timoney	None	=	CLOSED	Won't Do
SDNC-1751	Release Sign Off		Oct 27, 2022	Dec 19, 2022	Nov 10, 2022	Dan Timoney	None	=	CLOSED	Done
SDNC-1742	Release Candidate		Oct 03, 2022	Dec 19, 2022	Oct 20, 2022	Dan Timoney	None	=	CLOSED	Done
SDNC-1733	Feature Freeze		Sep 02, 2022	Sep 30, 2022	Sep 15, 2022	Dan Timoney	None	=	CLOSED	Done
SDNC-1727	Upgrade to OpenDaylight Sulfur release		Aug 03, 2022	Aug 03, 2022		Dan Timoney	Dan Timoney	=	IN PROGRESS	Unresolved
SDNC-1720	Finalized Code Submission		Jul 19, 2022	Sep 19, 2022	Sep 01, 2022	Dan Timoney	None	=	CLOSED	Done
SDNC-1711	Specification Freeze		Jun 27, 2022	Jul 15, 2022	Jun 30, 2022	Dan Timoney	None	=	CLOSED	Done
SDNC-1704	Release Sign Off		May 16, 2022	Jun 24, 2022	May 05, 2022	Dan Timoney	None	=	CLOSED	Done

SDNC-1698	Global Requirements Approval		May 09, 2022	Jun 08, 2022	May 26, 2022	Dan Timoney	None	=	CLOSED	Done
SDNC-1683	Release Candidate		Mar 31, 2022	May 13, 2022	Apr 21, 2022	Dan Timoney	None	=	CLOSED	Done
SDNC-1671	Feature Freeze		Mar 12, 2022	Mar 30, 2022	Mar 17, 2022	Dan Timoney	None	=	CLOSED	Done

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Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
SDNC-1728	Upgrade sdnc /northbound to ODL Sulfur		Aug 03, 2022	Aug 03, 2022		Dan Timoney	Dan Timoney	=	IN PROGRESS	Unresolved
SDNC-1549	Add network/RAN slice CSIT testing		May 17, 2021	Apr 27, 2023		Unassigned	Dan Timoney	=	OPEN	Unresolved
SDNC-1230	Implement GR-API PNF RPCs		Jun 03, 2020	Apr 27, 2023		Dan Timoney	Dan Timoney	=	OPEN	Unresolved
SDNC-1228	Implement GR-API PNF support		Jun 03, 2020	Apr 27, 2023		Dan Timoney	Dan Timoney	=	OPEN	Unresolved
SDNC-1227	Implement GR-API allotted resources RPCs		Jun 03, 2020	Apr 27, 2023		Dan Timoney	Dan Timoney	=	OPEN	Unresolved
SDNC-1226	Define data model for GR-API allotted resources		Jun 03, 2020	Apr 27, 2023		Dan Timoney	Dan Timoney	=	OPEN	Unresolved
SDNC-1225	Implement GR-API allotted resources		Jun 03, 2020	Apr 27, 2023		Dan Timoney	Dan Timoney	=	OPEN	Unresolved
SDNC-594	Enable support for MP2MP services		Jan 23, 2019	Jul 15, 2020		Unassigned	None	=	OPEN	Unresolved
SDNC-438	Support multiple vGMUXes in vCPE use case		Sep 11, 2018	Mar 30, 2022		Dan Timoney	None	=	IN PROGRESS	Unresolved
SDNC-224	Migrate data from release N-1 to release N		Dec 13, 2017	Sep 09, 2020		Unassigned	Dan Timoney	=	IN PROGRESS	Unresolved

10 issues

Longer term roadmap

One critical long term objective for the SDN-C project is support for integration with other third party SDN Controllers (e.g. Open Contrail), well as integration with the SDN Agent project from Open-O. For the Amsterdam release, since our primary goal is to support the user cases identified above, the degree to which we support such integration will be dictated by the needs of those use cases. However, we do want to bear in mind that such integration is critical and will be included in our release plans going forward.

Release Deliverables

Indicate the outcome (Executable, Source Code, Library, API description, Tool, Documentation, Release Note...) 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 container • Database container • Admin portal 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

Subcomponents of each ONAP project may be found on the Resources and Repositories (Deprecated) page on this wiki. Please see the SDN-C section of that page for subcomponent list of SDN-C.

ONAP Dependencies

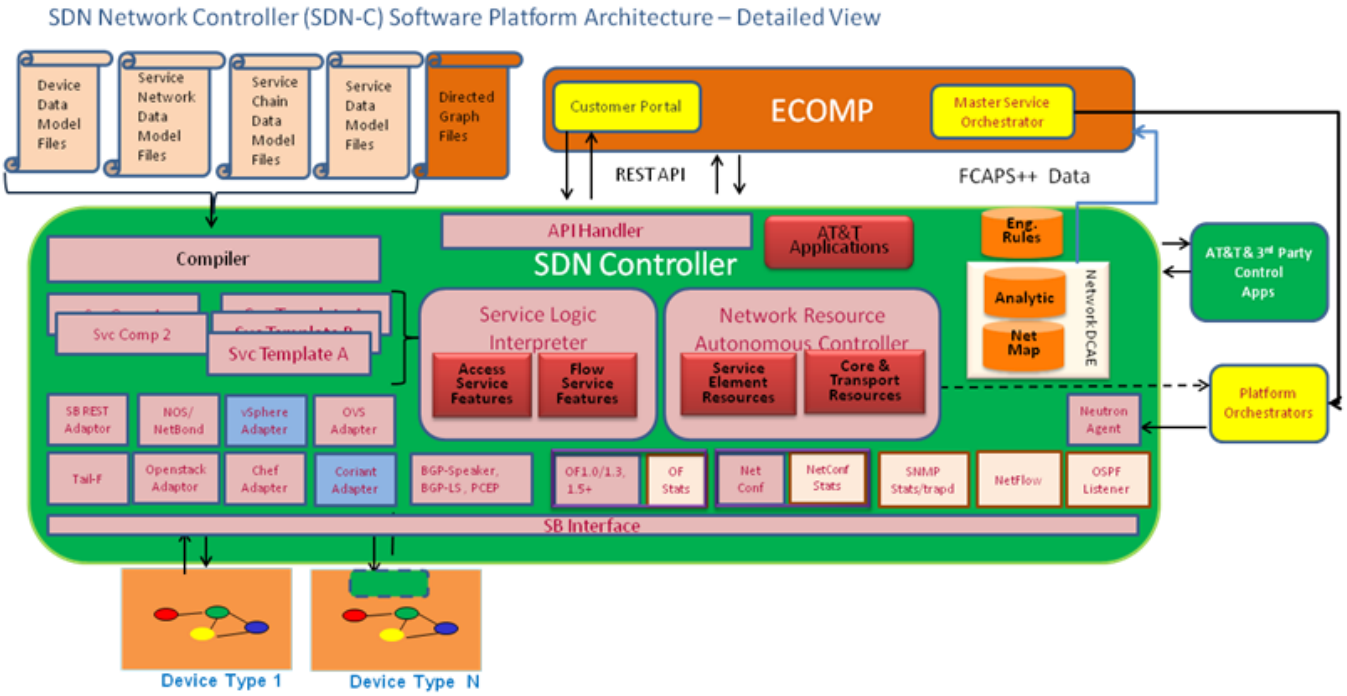
SDN-C depends on the following projects:

- 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
    - Note: not sure if this applies to release 1. Will depend on whether needed to support release 1 use cases

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

API Incoming Dependencies

List the API this release is expecting from other releases.
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)
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 this release is delivering to other releases.

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 VNF API	API used to request resources for VNFs	Included in seed code	Delivered in seed code	TBD (requested Confluence OPEN API to be installed so this can be published on ONAP Wiki)

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
OpenDaylight	OpenDaylight SDN controller platform	Carbon

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.

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
SDNC-1836	DGBuilder cannot display XML files		Feb 23, 2024	Apr 03, 2024		Dan Timoney	Andreas Geissler		OPEN	Unresolved
SDNC-1813	SDNC cannot read kafka topics in OOM deployment		Jun 30, 2023	Jun 30, 2023		Alexander Dehn	Alexander Dehn		OPEN	Unresolved
SDNC-1811	Service Instantiation process error		May 31, 2023	May 31, 2023		Dan Timoney	None		OPEN	Unresolved
SDNC-1787	[Post Configuration Issue] ONAP Jakarta release - Netconf deployment issue		Mar 30, 2023	Apr 18, 2023		Dan Timoney	None		OPEN	Unresolved
SDNC-1741	Capability generate-name fails for vnf_name		Sep 21, 2022	Oct 25, 2022		Dan Timoney	Sebastiano DePani		OPEN	Unresolved
SDNC-1726	Replace-VNF-Macro Fails : ChangeModelVNF : with 'changeassign' not valid operation in SDNC		Aug 03, 2022	Oct 27, 2022		Dan Timoney	SANKET KS		DELIVERED	Unresolved
SDNC-1709	SDNC pods are not coming up in jakarta OOM deployment		Jun 09, 2022	Jun 09, 2022		Dan Timoney	Ramesh Murugan Iyer		OPEN	Unresolved
SDNC-1679	SDNR GUI configuration page not able to load the device config		Mar 22, 2022	May 17, 2023		Unassigned	None		OPEN	Unresolved
SDNC-1654	Could not find artifact org.onap.ccsdk.sli.core:utils-provider:jar:1.3.3-SNAPSHOT		Dec 22, 2021	Jan 18, 2022		Dan Timoney	None		OPEN	Unresolved
SDNC-1639	SDNC does not resolve YANG1.1 modules with submodules		Dec 03, 2021	Jan 11, 2024		Herbert Eiselt	Herbert Eiselt		OPEN	Unresolved
SDNC-1637	SDNC throws TransactionCommit error after few runs of service instantiation		Nov 30, 2021	Aug 30, 2022		Dan Timoney	None		OPEN	Unresolved
SDNC-1628	sdnc-callhome detected as exposed non ssl port		Oct 22, 2021	Sep 02, 2022		Dan Timoney	None		IN PROGRESS	Unresolved
SDNC-1627	SDNC throws OptimisticLock Failed exception after 60-70 runs of service instantiation flow		Oct 21, 2021	Aug 30, 2023		Dan Timoney	None		OPEN	Unresolved
SDNC-1610	Broken git-repository of sdnc-oam		Sep 16, 2021	Sep 16, 2021		Dan Timoney	None		OPEN	Unresolved
SDNC-1607	Error in latest SDNC staging image		Sep 09, 2021	Sep 09, 2021		Dan Timoney	None		OPEN	Unresolved
SDNC-1606	SDNC DB initialisation show errors		Sep 06, 2021	Jun 26, 2023		Dan Timoney	Andreas Geissler		OPEN	Unresolved
SDNC-1605	[5G Closed Loop] Slice Analysis error calling Config-db		Sep 01, 2021	Sep 01, 2021		Dan Timoney	None		OPEN	Unresolved

SDNC-1604	5G SON - CM module not found		Sep 01, 2021	Sep 01, 2021	Unassigned	None		OPEN	Unresolved
SDNC-1568	Sonar fixes		Jun 21, 2021	Jun 21, 2021	Unassigned	None		OPEN	Unresolved
SDNC-1547	SDNC sdnc-web pod does not start with disabled aaf		May 13, 2021	May 13, 2021	Unassigned	None		OPEN	Unresolved

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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.

Release Key Facts

Fill out and provide a link toward the centralized Release Artifacts.