CPS R8 Release Planning

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

Overview

Project Name	Configuration Persistence Service
Target Release Name	Honolulu
Project Lifecycle State	Incubation
Participating Company	Ericsson, Nokia, Bell Canada, IBM, Pantheon

Scope

What is this release trying to address?

Introduce CPS specially focused to support E2E Network Slicing use case but in such a way that any other project an avails of the CPS functionality

Requirements

REQ-440 - Getting issue details... STATUS For CPS only an MVP will be realized in Honolulu.

REQ-429 - Getting issue details... STATUS

Minimum Viable Product

- CPS can store the module used for E2E Network Slicing and SON PCI (but any other model could be stored too)
- Yang json dat file can be stored for same model (with some validation)
- Support concept of Anchors (data entry points) even if only used one for MVP
- An xNfProxy interface wil be used to access xNF configuration data in CPS (hide soem of teh CPS housekeeping from xNF data users)
- Dataspace, model and dat will be hardcoded as part of xNfProxy stub in this release

- Query support wil be limited to whatever is needed for E2E Network Slicing use cases

Functionalities

Epics

CPS-189 - Getting issue details... STATUS

CPS-183 - Getting issue details... STATUS

CPS-168 - Getting issue details... STATUS

CPS-120 - Getting issue details... STATUS

CPS-118 - Getting issue details... STATUS

CPS-86 - Getting issue details... STATUS (stretch)

Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
CPS-298	CSIT job for Honolulu branch		Mar 18, 2021	Mar 19, 2021		Unassigned	None	=	CLOSED	Done
CPS-266	Finalize Honolulu Documentation		Mar 01, 2021	Mar 29, 2021		Toine Siebelink	Toine Siebelink	=	CLOSED	Done
CPS-261	CSIT Add basic CRUD scenarios using Robot FWK		Feb 24, 2021	Mar 04, 2021		Unassigned	Toine Siebelink	^	CLOSED	Done
CPS-242	Database Version Management in CPS-RI		Feb 15, 2021	Feb 26, 2021		Unassigned	Toine Siebelink	=	CLOSED	Done
CPS-241	Create REST End-point on NF-Proxy for cpsPath Query		Feb 12, 2021	Feb 24, 2021		Unassigned	Toine Siebelink	^	CLOSED	Duplicate
CPS-240	Create REST End-point on NF-Proxy for DataNode Update & cpsPath Query		Feb 12, 2021	Feb 26, 2021		Unassigned	Toine Siebelink	^	CLOSED	Done
CPS-204	Provide Spring auto configuration for cps modules		Jan 29, 2021	Feb 04, 2021		Unassigned	None	=	CLOSED	Not Done
CPS-203	Create new module for Application assembly (extract from REST modules)		Jan 28, 2021	Feb 05, 2021		Unassigned	Toine Siebelink	=	CLOSED	Done
CPS-200	Custom Model E2E Network Slicing - RAN Inventory		Jan 27, 2021	Feb 24, 2021		Unassigned	None	=	CLOSED	Done
CPS-196	Custom Model E2E Network Slicing SON PIC 1/4: Near-RT RIC <-> C/DU mapping		Jan 26, 2021	Jul 22, 2021		Unassigned	Toine Siebelink	^	CLOSED	Done
CPS-188	CSIT Test and Job		Jan 25, 2021	Mar 04, 2021		Unassigned	Toine Siebelink	=	CLOSED	Done
CPS-184	Build docker image for xNFProxy		Jan 20, 2021	Feb 12, 2021		Unassigned	Toine Siebelink	=	CLOSED	Done
CPS-182	Add DataNodeDoesNotExist Exception		Jan 20, 2021	Jan 26, 2021		Unassigned	None	=	CLOSED	Done

CPS-180	Support multiple YANG files upload on schema set creation using REST API		Jan 19, 2021	Feb 12, 2021	Unassigned	None	=	CLOSED	Done
CPS-179	Document Release Notes		Jan 18, 2021	Feb 26, 2021	Toine Siebelink	None	=	CLOSED	Done
CPS-178	Document CPS Architecture Placeholder		Jan 18, 2021	Feb 26, 2021	Unassigned	None	=	CLOSED	Done
CPS-177	Document Consumed API		Jan 18, 2021	Feb 12, 2021	Unassigned	None	=	CLOSED	Won't Do
CPS-176	Initial/docs folder setup, including first doc for Exposed API (yaml)		Jan 18, 2021	Feb 26, 2021	Unassigned	None	=	CLOSED	Done
CPS-174	Deploy xNfProxy with initial data		Jan 18, 2021	Feb 08, 2021	Unassigned	Toine Siebelink	⌄⌄	CLOSED	Duplicate
CPS-173	Preload NF-Proxy with Dataspace, Model and Data		Jan 18, 2021	Feb 26, 2021	Unassigned	Toine Siebelink	=	CLOSED	Done

Showing 20 out of 35 issues

Longer term roadmap

- CPS-Core is to be able to store and validate any Yang Modelled data and provide advanced xPath like queries
- CPS xNfProxy is a dedicate interface on CP-CODE for xNF configuration data and will included a mechanism for synchronizing the persisted data with the actual network configuration

Release Deliverables

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

Deliverable Name	Deliverable Description
CPS Docker Images	Containers running CPS and xNfProxy
CPS distribution library	Java library for other apps to use

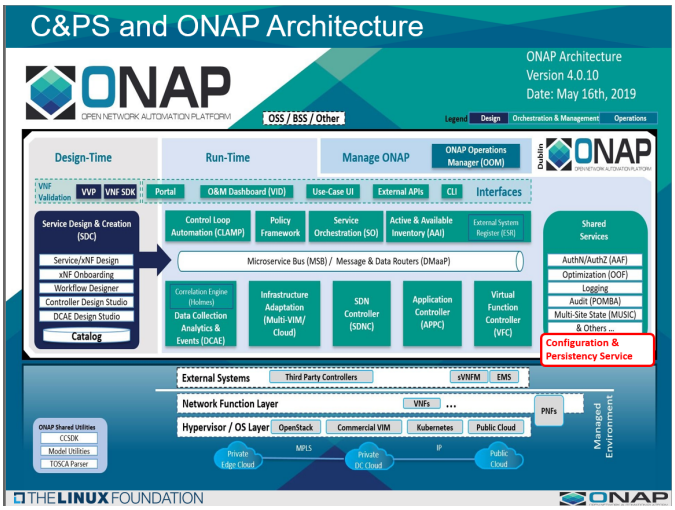
Sub-Components

List all sub-components part of this release.
Activities related to sub-components must be in sync with the overall release.

- cps-service
- cps-rest
- cps-ri (reference implementation)
- cps-xnf-proxy (TBD)

Architecture

High level architecture diagram



Platform Maturity

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

- # API Incoming Dependencies

None

- ## 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)
CPS-Admin	Manage CPS meta data like dataspaces, model and anchors			https://gerrit.onap.org/r/gitweb?p=cps.git;a=tree;f=cps-rest/docs/api/swagger;h=e815fb1926d69f724629885fcb2b5e32184c61e3;hb=refs/heads/master
CPS-Data	CRUD operations business data			https://gerrit.onap.org/r/gitweb?p=cps.git;a=tree;f=cps-rest/docs/api/swagger;h=e815fb1926d69f724629885fcb2b5e32184c61e3;hb=refs/heads/master
CPS-xNF-Proxy	CUD Operations for Configuration data			

- ## 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
Docker	VM Container	18 and above
ODL Yang Tools	Yang model and Data Parser	5.0.6
Postgres Docker image	VM container for Postgres	13.1 (will use 'latest' image released at built time)
Open JDK image	Base image	11-jre-slim
Jetty	Application server	9.4.31
Swagger	OpenAPI library	2.1.4
SpringFox	OpenAPI library	3.0.0

Hibernate types	Support for Postgres datatype JSONB	2.10.0
Spring Boot	Application Framework	2.3.3.RELEASE
cglib-nodep	3pp	3.1
commons-lang3	3pp	3.11

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

Testing and Integration Plans

1. CPS has high level of built jUnit test (>90%) which is enforced by our maven build scripts
2. CPS has built in Persistence Layer test ie. test that integrate with real DB covering all use cases and are part of WoW
3. CIST test need to be identified as part of Deployment Epic but will be included in Honolulu timeframe

   See **CPS-188** - Getting issue details... STATUS

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
xNF-Proxy data mirroring and syncing	data instance hardcode (ie. loaded upon deploy)

Known Defects and Issues

Please refer to CPS Release note when available

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 - Honolulu Risks **No risk identified at the moment**

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 erecommended to provide these agreements and dates in this section.

Documentation, Training

Please update the following centralized wiki: Honolulu Documentation – To be updated when avail

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.