R7 PNF Plug and Play PnP

Table of Contents

- USE CASE KEY INFORMATION
- NON FUNCTIONAL REQUIREMENT CONTRIBUTION
- BUSINESS DRIVER
- DEVELOPMENT STATUS
- USE CASE DIAGRAM
- USE CASE FUNCTIONAL DEFINITIONS
- INFORMATION MODEL TEMPLATE
- SUPPORTING FILES
- TESTING
 - Current Status
- END TO END FLOW TO BE TESTED
- MEETING LOG
- TEST CASES AND STATUS

USE CASE KEY INFORMATION

USE CASE	LEAD CONTACTS / DESCRIPTION	WIKI	
PNF Plug and Play	Benjamin Cheung , Damian Nowak	5G - PNF Plug and Play	
Integration Leads	Marcin Przybysz , Krzysztof Kuzmicki		
Requirement ID	Epic Jira for the requirement	REQ-318 - Getting issue details STATUS	
	SO Story Jira for PnP	SO-2981 - Getting issue details STATUS	
	Modeling Story jira for PnP	MODELING-368 - Getting issue details STATUS	
Architecture Sub-committee Jira tracker	Architecture sub-committee presentation	ONAPARC-575 - Getting issue details STATUS	
Model Place / Geolocation / AAI Schema	PNFD/SDC AID/AAI Schema Modeling/5G Svc Model - R7 Discussion		
Meetings Register	Papyrus model:		
	Proposed Location Model		
Generic Information Element Definition	Generic Information Element Definition for Geolocation Model		
for Geolocation Model			

NON FUNCTIONAL REQUIREMENT CONTRIBUTION

COMPONENT	U/C STORY JIRA	NFR JIRA	COMPANY	DESCRIPTION
so	SO-2981 - Getting issue details STATUS	REQ-351 - Getting issue details STATUS	Nokia	Non Functional requirement associated contribution. No technical dependency/ organizational dependency. SO NFR Support: Component of SO/LIBs update to Java v11
SO Dashboard				Service Orchestrator Guilin Release M1

BUSINESS DRIVER

This section describes Business Drivers needs.

EXECUTIVE SUMMARY - This requirement will augment the work-flow to building block management within SO for Plug and Play operation. The continues the work started in R6. In R6, some of the SO work-flow to building block work was finished, and in R7 this is enhanced. The description of the "base" work which will be enhanced is shown in the wiki: PNF PLUG and PLAY in R6 Frankfurt

BUSINESS IMPACT - The enhancement to Plug and Play operation in ONAP is a critical business function because they enhance installation and commissioning activities.

BUSINESS MARKETS - This project applies to any domain (wireless, transport, optical, and wireline) that ONAP may manage.

FUNDING/FINANCIAL IMPACTS - The plug and play project has Operating Expense (OPEX) savings for operators because of the ability to saving time and expenses during installation and commissioning and contributes towards ZTM (Zero touch management).

ORGANIZATION MGMT, SALES STRATEGIES - There is no additional organizational management or sales strategies for this use case outside of a service providers "normal" ONAP deployment and its attendant organizational resources from a service provider.

DEVELOPMENT STATUS

PR OJ ECT	PTL	User Story / Epic	Re qui re me nt
A& AI	James Forsyth William Reehil	NO IMPACT	
AAF	Jonathan Gathman x	EPIC #1 (TEST ONLY / Integration) CMPv2 - Enhanced Secure X.509 Certificate support (email from Damian Nowak suggests to remove this dependency - testing will occur with REQ-321) REQ-318 PNF Plug & Play in R7 I think, we need to remove the dependency to AAF for REQ-318. REQ-318 covers mainly work in the SO component. Looking at PNF PNP feature E2E we might have some relation to REQ-321, but no strict dependency. Perhaps some AAF dependency was mentioned in REQ-318, before REQ-321 was created. I'd remove the AAF dependency from REQ-318 actually.	
AP PC	Takamune Cho	NO IMPACT	
CL AMP	Gervais-Martial Ngueko	NO IMPACT	
CC - SD K	Dan Timoney	NO IMPACT	
DC AE	Vijay Venkatesh Kumar	NO IMPACT	
DM aaP	Mandar Sawant	NO IMPACT	
Ext ern al API	Matthieu Geerebaert	NO IMPACT	
MO DE LING	Hui Deng	NO IMPACT	
Mu Iti- VI M / Clo ud	Bin Yang Eric Multanen	NO IMPACT	

MU SIC	Bharath Balasubramani an (Empty)	NO IMPACT
OOF	Shankaranaray anan Puzhavakath Narayanan krishna	NO IMPACT
	moorthy	
PO LICY	Pamela Dragosh Jim Hahn	NO IMPACT
PO RT AL	Manoop Talasila Sund er Tattavarada	NO IMPACT
SD	Dan Timoney	EPIC #3
N- C		Licensing Management flow w.r.t. PnP (q.v. Licensing Management Use Case)
		(Dependency) Enhancements for requesting License Key File (LKF) & Licenses from License Service (message exchange)
SDC	Ofir Sonsino	NO IMPACT
SO Seshu Kumar Mudiganti		EPIC #2 Workflow to Building Block Development and integration
		BB execution Framework, extended to understand PNFs.
		Preparing input object used for different BBs.
		Framework needs to take into PNFs. (Possible debug/work)
		(Testing & Integration Work). Environment where this is run
		Model parameters added, address the right CDS Blueprint.
VID	Ittay Stern	NO IMPACT
VF- C	Yuanhong Deng	NO IMPACT
VN FR QTS	Steven Wright	NO IMPACT
VN F- SDK	Weitao Gao	NO IMPACT
CDS	Yuriy Malakov	NO IMPACT

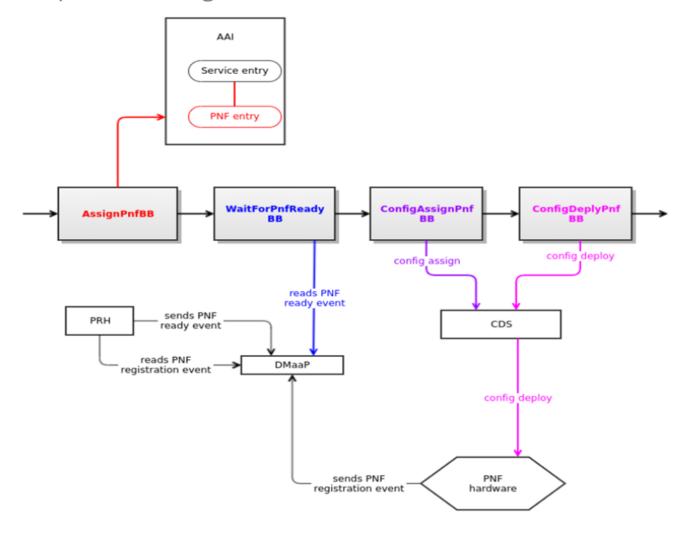
List of PTLs: Approved Projects

USE CASE DIAGRAM

Use cases define how different users interact with a system under design. Each use case represents an action that may be performed by a user (defined in UML as an Actor with a user persona).

^{*}Each Requirement should be tracked by its own User Story in JIRA

Proposed building blocks



USE CASE FUNCTIONAL DEFINITIONS

Use Case Title	PNF Plug and Play - SO Building Block (Work flow)
Actors (and System	PNF (5G DU)
Components)	ONAP DCAE-VES Event Listener / PRH: PNF Registration Handler
Description	PNF Plug and Play is used for installation and commissioning when a PNF registers with ONAP
Points of Contact	Benjamin Cheung , Damian Nowak
Preconditions	Design time activities have occurred, and Stage 1 of the Plug and Play Base Use Cases documented here:
	5G - PNF Plug and Play
Triggers / Begins when	This is used during Installation & Commissioning for Plug and Play when SO needs to initiate the Building Block flow for PnP
Steps / Flows (success)	The flows are documented here:
	5G - PNF Plug and Play
Post-conditions	The post-conditions are after the flows are after the ConfigDeployPNF.
	The workflow has been completed and executed in SO

Alternate / Exception Paths	Errors can occur while executing the AssignPNF BB, Waiting for PNF ready BB, Config Assign PNF BB or Config Deploy PNF BB.	
	If the Waitfor PNF ready BB waiting for the PNF ready event never arrives because the PNF does not send the PNFRegistration event.	
	(the full details of the flows are in this wiki: 5G - PNF Plug and Play	
Related Use Cases	None	
Assumptions	None	
Tools / References / Artifacts	References are listed in the base wiki: 5G - PNF Plug and Play	

INFORMATION MODEL TEMPLATE

The modeling information for Geolocation can be found here:

Generic Information Element Definition for Geolocation Model

SUPPORTING FILES

Topic	File
Place / Geolocation Parameters & Analysis	PNFPlaceModel.xlsx
ETSI SOL001 proposal - Geolocation Update	NFVSOL(20)0003s_support.docx



TESTING

Current Status

- 1. Testing Blockers
- 2. High visibility bugs
- 3. Other issues for testing that should be seen at a summary level4. Where possible, always include JIRA links

END TO END FLOW TO BE TESTED

MEETING LOG

Regular meetings for PNFD/SDC AID/A&AI Schema Moeling and 5G Service Modeling

discussion for Geolocation & Place development for using using Plug and Play.

See this wiki for the Meetings: PNFD/SDC AID/AAI Schema Modeling/5G Svc Model - R7 Discussion

you can watch/listen to previous recordings and meeting at the R6 PnP page: PNF PLUG and PLAY in R6 Frankfurt

TEST CASES AND STATUS

1	There should be a test case for each item in the sequence diagram	NOT YET TESTED
2	create additional requirements as needed for each discreet step	COMPLETE
3	Test cases should cover entire Use Case	PARTIALLY COMPLETE
4	Test Cases should include enough detail for testing team to implement the test	FAILED