







ONAP 5G USE CASE ENHANCEMENTS FOR PNF DEPLOYMENTS



- ONAP and 5G USE CASE Enhancements
- PNF (Radio Network) Support & Deployment
- R3 CASABLANCA (4Q 2018) RELEASE

- 5G Use Case Team





PNF PNP ENHANCEMENTS OVERVIEW

TOPIC	ICON	DESCRIPTION
PNF Registration Handler (PRH) Improvements		New VES Event domain for PNF registration with corresponding support in VES collector, DMaaP and PRH.
SO Workflow enhancements		Introduction of dedicated 5G use case work-flow
Service Configuration Improvement		Service configuration improvements from APP-C/SDN-R to PNF after PNF registration to PRH
Security Enhancements		Authentication, Certificates, User name & password and intra-ONAP security.
Modeling enhancements		Modeling enhancements to support 5G PNF in ONAP. Inheritance, and PNF characteristics for sharing. Focusing on PNF connectivity. PNF-SDK.
PNF Onboarding / Package		Defining <i>PNF Onboarding Package</i> . Extending framework to work with PNFs. Defining PNF Package framework.

PERFORMANCE ANALYSIS & OPTIMIZATION OVERVIEW

TOPIC	ICON	DESCRIPTION
Bulk Performance Measurements (PM) Collection		Performance Measurements Collection with ONAP. Development and evolution of event collection through VES collector.
High Volume & Real-Time Performance Measurements (RTPM) Collection		Performance Measurements Collection for Real-Time collection from PNF for sub-minute intervals (configurable). Introduces a High-Volume VES collector for high-volume data management (in DCAE) using a persistent connection. Introduces new data encoding (GPB). Distributed collection at cloud edge (for scalability).

SERVICE CONFIGURATION ENHANCEMENTS OVERVIEW

TOPIC	ICON	DESCRIPTION
CDT Integration to SDC		<i>Configuration Design Tool (CDT)</i> which provides a GUI to build artifacts to be used by APP-C (using Tosca models) to configure Templates incorporated into SDC.
PNF Software Version Checking		Reporting PNF S/W version to ONAP controller (SDN-R) & A&AI. Demonstrate the PNF S/W version has been updated in A&AI.
PNF & CU Application Level Configuration		Enhancements for SDN-R. Single Persona to control/create 5G PNFs (NE).
Life-Cycle Management Support		Change management and CLAMP for life-cycle support for PNF.