

Guilin (R7) - Use Cases (and Requirements in Use Cases)

This page will contain split of each endorsed functional requirement into a set of architectural requirements, and architecture flows to fulfill the specific functional requirement

5G Use Cases & Requirements in R7 (GuiLin)

The "directory" of 5G Use Case Wiki are located here: [5G Use Cases in R7 Guilin](#)

USE CASE / REQUIREMENT	DESCRIPTION	WIKI
OOF SON (PCI)	Optimization and SON functions for 5G RAN which provide for self-optimization, self-healing and self-configuration	R7 OOF SON Use Case
5G SERVICE MODELING & DEFINITION	Defining and modeling a 5G Service (in Design Time) and the associated Modeling (Platform information & data model). This is driven by 3GPP TS28.540 and TS28.541, the 5G NRM.	R7 5G Service Modeling
ONAP/3GPP & O-RAN Alignment: Standards Defined Notifications over VES	The capability to receive, validate and process standards defined notifications encapsulated in VES events in ONAP. Modeling: VES 7.1 and VES 7.2	ONAP/3GPP & O-RAN Alignment-Standards Defined Notifications over VES
ONAP/3GPP & O-RAN Alignment: A1 Adaptor Extension	A1 Adaptor extension for Standards Harmonization. ONAP acting as Non RT-RIC; ONAP sending policies A1 policy.	ONAP/3GPP & ORAN Alignment: A1 Adapter extensions
5G NRM (CM)	5G Network Resource Model introducing Configuration Management (CM Updates) using RESTful (HTTPS) Interface (instead of NetConf)	5G Network Resource Model (NRM) Configuration in R7
E2E NETWORK SLICING	5G Network Slicing defines slices to be used in 5G RAN systems. Network Slicing is a long-lead multi-release development.	E2E Network Slicing Use Case in R7 Guilin
BULK PM: PM CONTROL	PM Control/"PM Control plane" in ONAP has been introduced in Rel 6 to complete Bulk PM use case enabling configuration of PM jobs/subscriptions on xNFs.	Bulk PM/ PM Data Control Extension
INTENT BASED NETWORK	The Intent-based Network (IBN) is applied to the configuration and optimization of network functions based on the Intents. The current version of IBN is applied to the opening and closed-loop operation of network slices in the 5G use case.	Intent-Based Network
CCVPN - Transport Slicing	Realization of 5G TN NSSMF by using standards, models, and architectures from ETSI ZSM, IETF/ACTN, 3GPP, etc. We also leverage the existing functionality from CCVPN (e.g., physical network configurations). Furthermore, Transport Slicing is integrated with the E2E Network Slicing use case.	https://docs.onap.org/projects/onap-integration/en/latest/docs_CCVPN.html

PNF Use Cases & Requirements in R7 (GuiLin)

The "directory" for the PNF Use Case Wikis are located here: [PNF Use Cases & Requirements in R7 Guilin](#)

USE CASE / REQUIREMENT	DESCRIPTION	WIKI
PNF PLUG AND PLAY	PNF Plug and Play allows for ONAP to support PNF registration and discovery. The DCAE component, PRH (PNF Registration Handler) processes the PNF registration VES event.	R7 PNF Plug and Play PnP
PNF PRE-ONBOARDING / ONBOARDING	Pre-onboarding and PNF Onboarding for Vendor PNF Package delivery via SDC. The PNF Pre-onboarding includes activities that prepare the package; and onboarding allows the package to be ingested into SDC and validated in VNF-SDK	R7 PNF Pre-onboarding / (onboarding)
PNF SOFTWARE UPGRADE	The PNF Software Upgrade use case allows for ONAP to update the PNF software.	Support xNF Software Upgrade in association to schema updates

[illegible]

PnP					CMPv2		YES							YES					
					Depend														YES
POB														YES		YES			
SW Upg																			
C&PS	TEST			YES	Depend		Possible					YES						YES	
CMPv2		YES			YES														
Licens e Mgmt													YES					YES	
MDONS					(Test Only)				YES	(Test Only)		YES		YES					
IBN	YES				YES				YES	YES				YES	YES				
Use Case	AAI	AAF	CLAMP	CCSDK	DCAE	Ext API	Model	M-VIM	OOF	Policy	Portal	SDN-C	SDC	SO	UI	VID	VNF REQTS	VNF	

OVERVIEWS, DEMOS & SLIDES

The following are Links to Overviews, Demos and Summary Slides for each of the major use cases:

USE CASE	OVERVIEWS, SUMMARY	OVERVIEW AND DEMO LINKS
R7 Guilin 5G & PNF Use Cases Overview	Overview Slides: R75GPNFUseCasesDDF-22Jun2020v2.pdf	
OOF SON PCI	Overview Slides: ONAP_OOF_SON_R7_Scope_2020_09_16.pptx	Use Case Realization Call: June 17, 2020
5G SERVICE MODELING	Overview Slides: R8-5GServiceCreation_2020Sp14v5.pdf	R8_5GServiceModeling_202008Ag31.mp4
ONAP/ORAN 3GPP STNDDEF VES	Overview Slides: vF2F stndDefined Event in ONAP 2020-06-24 v3.pptx	
ONAP/ORAN 3GPP A1 POLICY	Overview Slides: 20200624 LFN DTF ONAP-A1 Adaptor JohnKeeney.pdf	
E2E NETWORK SLICING	Overview Slides: ONAP_E2E_Network_Slicing_slides.pptx	Use Case Realization Call: April 01, 2020
BULK PM: PM CONTROL	Overview Slides:	
PNF PLUG AND PLAY	Overview Slides: PNFPlugnPlayR7GuiLin_09Sp242020v13.pdf	Use Case Realization Call: February 19, 2020
PNF SOFTWARE UPGRADE	Overview Slides: PNF SoftwareUpgrade Schema update to ONAP Arch.pdf	
CONFIG & PERSIST SERVICE	Overview Slides: ConfigurationPersistencySvcDDF_10Jy2020v8a.pdf	Use Case Realization Call: May 27, 2020
CMP v2	Overview Slides: PNF Registration Enhancements for Security v1.pptx	
LICENSING MANAGEMENT	Overview Slides: ONAP license mgmt - ArchCom Guilin - 202005My26.pptx	Use Case Realization Call: September 4, 2019

MDONS	Overview Slides: MDONS_ONAP_R6_XinMiao-updt.pptx	Use Case Realization Call: December 04, 2019
ETSI ALIGNMENT	Overview Slides: Guilin ETSI-Alignmentv1.pdf	

USEFUL LINKS

The following table has useful links:

Topic	Link
Use Case Way of Working	ONAP Use Case / Requirements Teams Process Way of Working (WoW)
Use Case Template	Use Case Tracking Template
MODELING Planning Page	ONAP R7 Modeling High Level Requirements
MODELING Generic Information Element Template	Generic Information Element Template
R7 Requirements Proposal Page	Guilin release - functional requirements proposed list
ARCHITECTURE Review Template	R7 Guilin Architecture Review (template) - functional requirements
ARCHITECTURE Review Process	Project Architectural Review Requirements and Process (Draft)
Business Driver Template	Business Driver Template for Use Cases
REQ-1	🔗 REQ-1 - ONAP Requirement Template TO DO
R7 Release Tracking Page Jira Dashboard	Guilin Release Requirements
Use Case Realization MOM	Use Case Realization Meeting Register MoM
R7 ONAP Marketing Key Updates	Guilin Release Key Updates