R10 E2E Network Slicing use case

Use Case Overview & Description

Network Slicing provides dedicate specialized call plane resources called Network Slicing within the network.

Release 10 of E2E Network Slicing introduces the evolution of incremental improvements of Network Slicing.

Use Case Key Information

TOPIC	DESCRIPTION	WIKI PAGE
Requirements Proposal	This is a link to the requirements proposal made on the Requirements Sub-committee	
Architecture S/C info	Information on the Architecture sub-committee presentation	**https://jira.onap.org/browse/ONAPARC-733** **E2E_Network_Slicing_ArchCom_Review_v1.0.pdf**
Prior Project "Base" Wiki	Link to the Istanbul release page for this use case	**R9 E2E Network Slicing use case**
Requirements Jira (REQ-###) Ticket	Link to the REQ Jira ticket for this use case	⚡ ~~REQ-1085~~ - E2E Network Slicing use case enhancements for Jakarta release `DONE`
Key Use Case Leads & Contacts	**USE CASE LEAD**: Kevin Tang , Ahila P **USE KEY CONTACTS**: Kevin Tang , Ahila P , Henry Yu , Dong Wang , Borislav Glozman LIN MENG	
Meetings Register & Recordings	Link to Use Case Team meetings.	**J-release:** E2E Network Slicing use case weekly meetings (Dec - May 2022) **I-release:** E2E Network Slicing use case weekly meetings (May - Oct 2021)

BUSINESS DRIVER

This section describes Business Drivers needs. These business drivers are presented on the Requirements Sub-committee and should also be put into the release requirements sub-committee page.

Executive Summary - (Give a short description of your Use Case, the "Executive 2 min elevator pitch", this describes the "**WHAT**")

Business Impact - (This is the Business Impact which describes why this use case is important from a business perspective, this describes the "**WHY**").

Business Markets - (This is the marketing analysis, which can include but not limited to applicable markets, domains, marketing projections, this can describe the "**WHERE**").

Funding/Financial Impacts - (The Funding requirements and Financial impacts can describe the financial savings, or CAPEX, OPEX impacts for a Use Case).

Organization Mgmt, Sales Strategies - (It is suggested that you use the following wording): *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.* (This would typically describe the "**WHO**", but because use cases are all deployed with ONAP itself, these two areas come with the actual ONAP deployment and uses the organizational management and sales strategies of a particular service provider's ONAP deployment)

Development Status

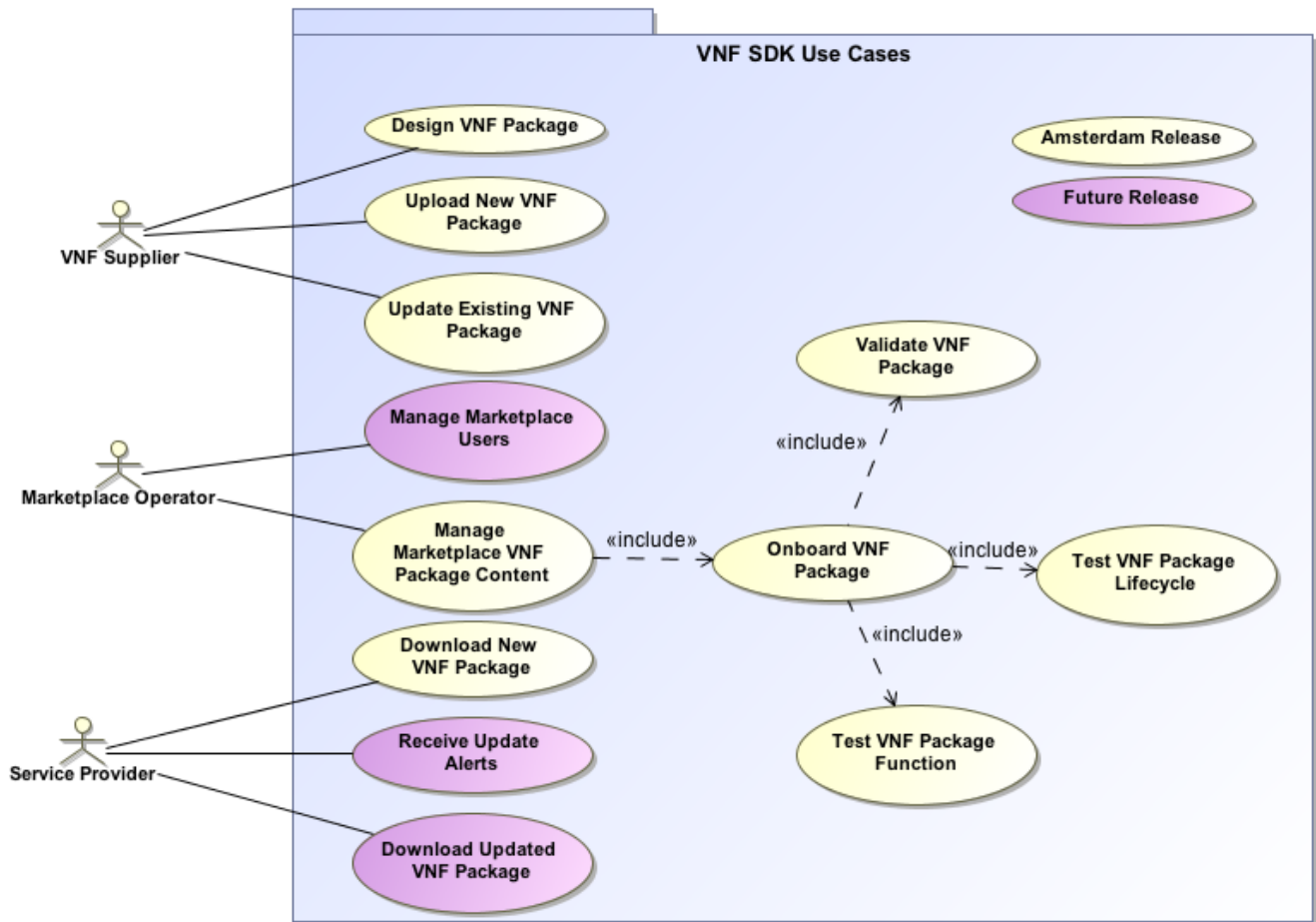| PROJECT	PTL	User Story / Epic	Requirement
A&AI	William Reehil		No impact
AAF	Jonathan Gathman		No impact
APPC	Takamune Cho		No impact
CC-SDK	Dan Timoney	⚡ ~~CCSDK-3554~~ - CCSDK impacts for Network slicing in Jakarta Release `CLOSED`	CPS integration in RAN Slicing

CPS	Toine Siebelink	⚡ ~~CPS-819~~ - CPS impacts for Network slicing in Jakarta Release `CLOSED`	Using CPS-NCMP from TBDMT to store/read RAN configurations
DCAE	Vijay Venkatesh Kumar	⚡ ~~DCAEGEN2-3021~~ - DCAE Impact for E2E Network Slicing in Jakarta release `CLOSED`	Capacity based NSI/NSSI Selection
DMaaP	Mandar Sawant (Old) Fiachra Corcoran (New)		No impact
External API	Adrian OSullivan		No impact
HOLMES	Guangrong Fu		No impact
MODELING	Hui Deng		No impact
Multi-VIM / Cloud	Bin Yang		No impact
OOF	krishna moorthy	⚡ ~~OPTFRA-1027~~ - OOF impacts for Network slicing in Jakarta Release `CLOSED`	Capacity based NSI/NSSI Selection
OOM	Sylvain Desbureaux		No impact
POLICY /CLAMP	Liam Fallon		No impact
PORTAL	Sunder Tattavarada		No impact
SDN-C	Dan Timoney		No impact
SDC	Christophe Closset		No impact
SO	Seshu Kumar Mudiganti	⚡ ~~SO-3826~~ - SO impacts for Network slicing in Jakarta Release `CLOSED`	Dynamic endpoints discovery, OOF involvement in TN slicing, TN model enhancements, Support for activation, deactivation scenarios in external NSSMFs
VID	Ikram Ikramullah		No impact
VF-C	Yuanhong Deng		No impact
VNFRQTS	Steven Wright		No impact
VNF-SDK	Weitao Gao (Old) user-67d6f (New)		No impact
CDS	Yuriy Malakov		No impact

List of PTLs:**Approved Projects**

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

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).

VNF SDK Use Cases

Design VNF Package

Upload New VNF Package

Update Existing VNF Package

Manage Marketplace Users

Manage Marketplace VNF Package Content

Download New VNF Package

Receive Update Alerts

Download Updated VNF Package

VNF Supplier

Marketplace Operator

Service Provider

Amsterdam Release

Future Release

Validate VNF Package

Onboard VNF Package

Test VNF Package Lifecycle

Test VNF Package Function

«include»

Use Case Functional Definitions

Use Case Title	Title of the Use Case
Actors (and System Components)	The list of Actors and System Components that participate in the Use Case
Description	Short overview of the Use Case
Points of Contact	Authors and maintainers of the Use Case.
	Use Case Lead, Key Use Case members and code contributors.
Preconditions	A list of conditions that are assumed to be true before the Use Case is invoked
	Includes description of Information Consumed
Triggers / Begins when	Describes the trigger for beginning the Use Case
Steps / Flows (success)	Describes the sequence of steps and interactions that occur during the Use Case (may include: description, data exchanges, functionality, state changes)
	Interaction diagrams may be included or referenced
Post-conditions	The expected results of the execution of the Use Case
	Includes description of Information Produced
Alternate / Exception Paths	Description of any exceptions or special process that could occur during Use Case
Related Use Cases	List of the Use Cases referenced by this Use Case
Assumptions	Describes any assumptions that are made for this use case

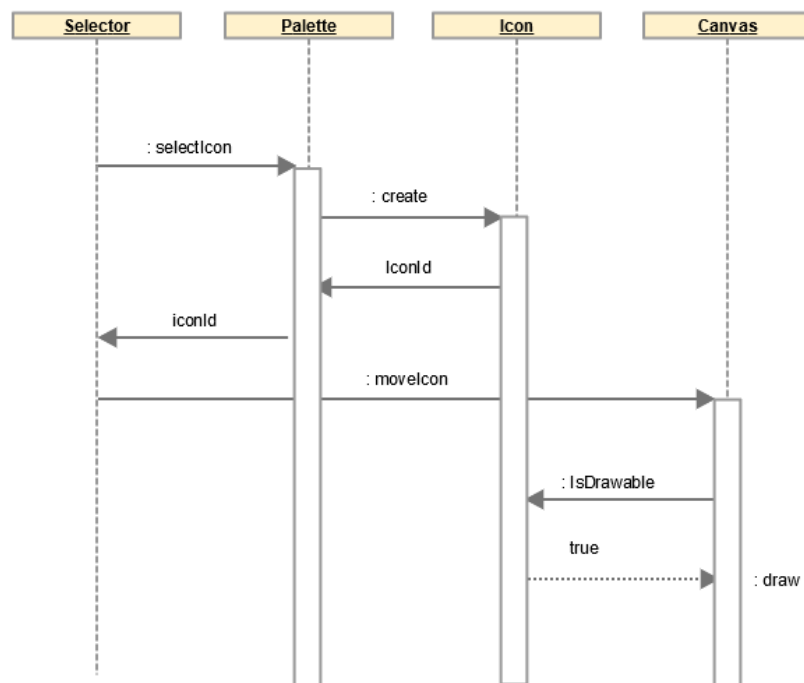| Tools / References / Artifacts	*List of any tools or reference material associated with this Use Case as well as any JIRA trace-ability.*
	List of any associated diagrams or modelling artifacts associated with the Use Case

TESTING

Current Status

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

End to End flow to be Tested

This should be a summary level Sequence diagram done in Gliffy

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

NETWORK SLICING SLIDES FOR R10

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