







# R7 PNF Pre-onboarding / (onboarding)

For R7 PNF Pre-onboarding

## USE CASE

PNF Preonboarding / Onboarding		 <a href="#">REQ-349</a> - PNF PreOnboarding in R7 <span>DONE</span>
	VNF SDK STORY JIRA	 <a href="#">VNFSDK-597</a> - PNF PreOnboarding in R7 - VNFSDK Enhancements <span>CLOSED</span>
Architecture Sub-committee Jira tracker		 <a href="#">ONAPARC-575</a> - Guilin-R7 ArchCom Review for PnP, 5G Service Modeling, CMPv2, C&PS, and PNF Onboarding <span>CLOSED</span>
Key Contacts		Benjamin Cheung <a href="#">Damian Nowak</a>

## NON FUNCTIONAL REQUIREMENT CONTRIBUTION

Component	U/C VNFSDK Story Jira	VNFSDK NFR	Company	Description
VNF-SDK	 <a href="#">VNFSDK-597</a> - PNF PreOnboarding in R7 - VNFSDK Enhancements <span>CLOSED</span>	 <a href="#">REQ-354</a> - ONAP must complete update of the java language (from v8 -> v11) <span>DONE</span>	Nokia	<u>Non functional requirement contribution:</u> (1) VNF-SDK Java 11 migration and (2) JJB update Ubuntu 18.04  See VNF Planning Jira:  <a href="#">VNFSDK-609</a> - Complete release planning template <span>CLOSED</span>

## BUSINESS DRIVER

This section describes Business Drivers needs.

**EXECUTIVE SUMMARY** - This requirement enhances the PNF (Onboarding) / Pre-onboarding use case. This requirement introduces package security Option2 improvements on Signature per artifact on the Vendor delivered package as defined in ETSI NFV SOL004 v2.7.1 section 5.2. The validation of onboarded PM dictionary data based on schema information will be done. The standard can be found here: [https://www.etsi.org/deliver/etsi\\_gs/NFV-SOL/001\\_099/004/02.07.01\\_60/gs\\_NFV-SOL004v020701p.pdf](https://www.etsi.org/deliver/etsi_gs/NFV-SOL/001_099/004/02.07.01_60/gs_NFV-SOL004v020701p.pdf) . In R4 and R6, Option 1 signature per package was developed but not Option 2.

**BUSINESS IMPACT** - The enhancement to Onboarding & Pre-onboarding is a critical business function because they are vital to design-time operation to properly onboard vendor packages.


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

**FUNDING/FINANCIAL IMPACTS** - The PNF Onboarding & Pre-onboarding use case has Operating Expense (OPEX) savings for operators because of the ability to saving time and expenses during installation and commissioning of PNF resources.

**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

PROJ ECT	PTL	User Story / Epic	Requirement
A&AI	James Forsyth		
AAF	Jonathan Gathman		
APPC	Takamune Cho		

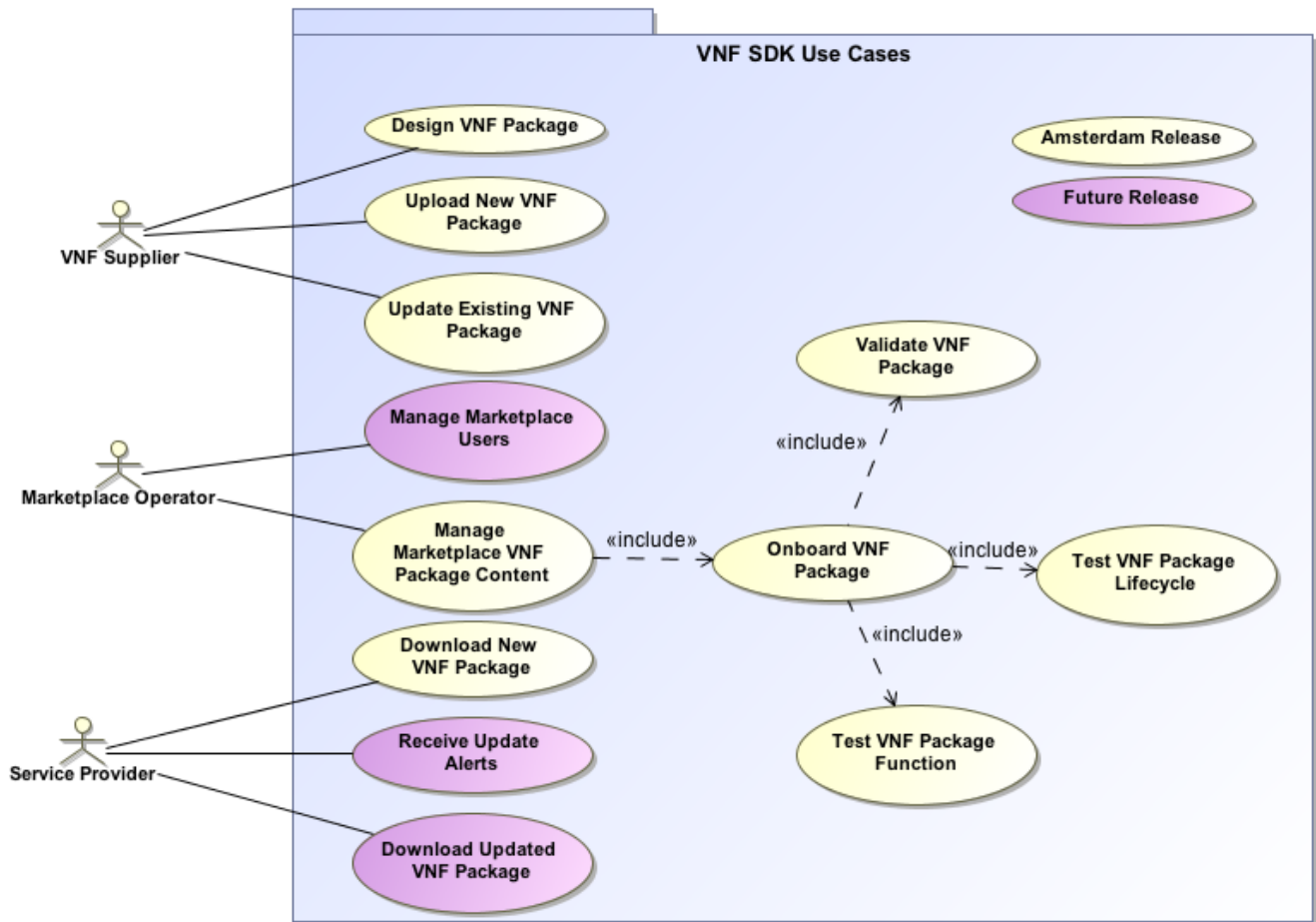
<b>CLAMP</b>	Gervais-Martial Ngueko		
<b>CC-SDK</b>	Dan Timoney		
<b>DCAE</b>	Vijay Venkatesh Kumar		
<b>DMaaP</b>	Mandar Sawant		
<b>External API</b>	Matthieu Geerebaert		
<b>MODELING</b>	Hui Deng		
<b>Multi-VIM / Cloud</b>	Bin Yang		
<b>OOF</b>	Shankaranarayanan Puzhavakath Narayanan		
<b>POLICY</b>	Pamela Dragosh		
<b>PORTAL</b>	Manoop Talasila		
<b>SDN-C</b>	Dan Timoney		
<b>SDC</b>	Ofir Sonsino		
<b>SO</b>	Seshu Kumar Mudiganti		
<b>VID</b>	Ittay Stern		
<b>VNFR QTS</b>	Steven Wright		
<b>VNF-SDK</b>	Weitao Gao user-67d6f	<b>EPIC #1</b>  Package Validation enhancements notable Package security (option 2 security on entire package)  - Signatures Hashchecks per artifact (applicable for both Option 1 & 2) – in R4/R5/R6 signature Hashcheck may exist for option 1.  <ul style="list-style-type: none"> <li>Improvements &amp; Enhancements for PNFs.</li> </ul>	 <b>VNFSDK-597</b> - PNF PreOnboarding in R7 - VNFSDK Enhancements <span>CLOSED</span>
<b>CDS</b>	Yuriy Malakov		

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).



## USE CASE FUNCTIONAL DEFINITIONS

<b>Use Case Title</b>	<b>PNF Pre-onboarding &amp; Onboarding</b>
<b>Actors (and System Components)</b>	#1 - Vendor / #2 - SDC / #3 - VNF-SDK / #4 - ONAP Components
<b>Description</b>	<p>The base PNF pre-onboarding / onboarding use case is at this wiki:  <a href="#">5G - PNF Pre-Onboarding &amp; Onboarding</a></p> <p>SOL004 specifies Package integrity/authenticity</p> <p>OPTION #1 open package create sign each artifacts of package &amp; create a digest; store calculated hashes in manifest file. Calculator checksum of each artifact.</p> <p>OPTION #2 – same but on entire CSAR package. Sign the entire package put with signature.</p>
<b>Points of Contact</b>	Benjamin Cheung , Zu Qiang (Ericsson) , Michela Bevilacqua , Damian Nowak
<b>Preconditions</b>	<p>The PNF Vendor package is delivered to ONAP</p> <p>The PNF Vendor package is described in detail in the "base" wiki page</p>
<b>Triggers / Begins when</b>	<i>Describes the trigger for beginning the Use Case</i>
<b>Steps / Flows (success)</b>	<p><i>Describes the sequence of steps and interactions that occur during the Use Case (may include: description, data exchanges, functionality, state changes)</i></p> <p><i>Interaction diagrams may be included or referenced</i></p>
<b>Post-conditions</b>	<p><i>The expected results of the execution of the Use Case</i></p> <p><i>Includes description of Information Produced</i></p>

<b>Alternate / Exception Paths</b>	<i>Description of any exceptions or special process that could occur during Use Case</i>
<b>Related Use Cases</b>	<i>List of the Use Cases referenced by this Use Case</i>
<b>Assumptions</b>	<i>Describes any assumptions that are made for this use case</i>
<b>Tools / References / Artifacts</b>	<i>List of any tools or reference material associated with this Use Case as well as any JIRA trace-ability.</i> 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

## 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