Scheduling Optimization for R9 Use Case

Use Case Overview & Description

ONE area in Change Management focusing on schedule optimization.

Schedule optimization - automatically discover change schedule based on service constraints & operational constraints.

Change schedule opt. - dynamic composition for change scheduling - base algorithms in place. - within OOF component

Expanded potentially for other scheduling e.g. control loop based on constraints. determine when to execute based on constraints.

Any type of actions that you would want to schedule by looking at conflicts & operational constraints.

Conflicts at the service layer, and try to avoid conflicts.

CONCURRENCY - Operational constraints - concurrent activities in controllers. op & systems driven.

User can choose what matters in what context / Policy. Choose differently based on policies. Service composition changes.

Scheduling concept -

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	
Prior Project "Base" Wiki	Link to the "base" wiki for the Use Case, or work from a prior release.	
Requirements Jira (REQ-###) Ticket	Link to the REQ Jira ticket for this use case	
Key Use Case Leads & Contacts	**USE CASE LEAD**: Ajay Mahimkar **USE KEY CONTACTS**:	
Meetings Register & Recordings	Link to Use Case Team meetings.	

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

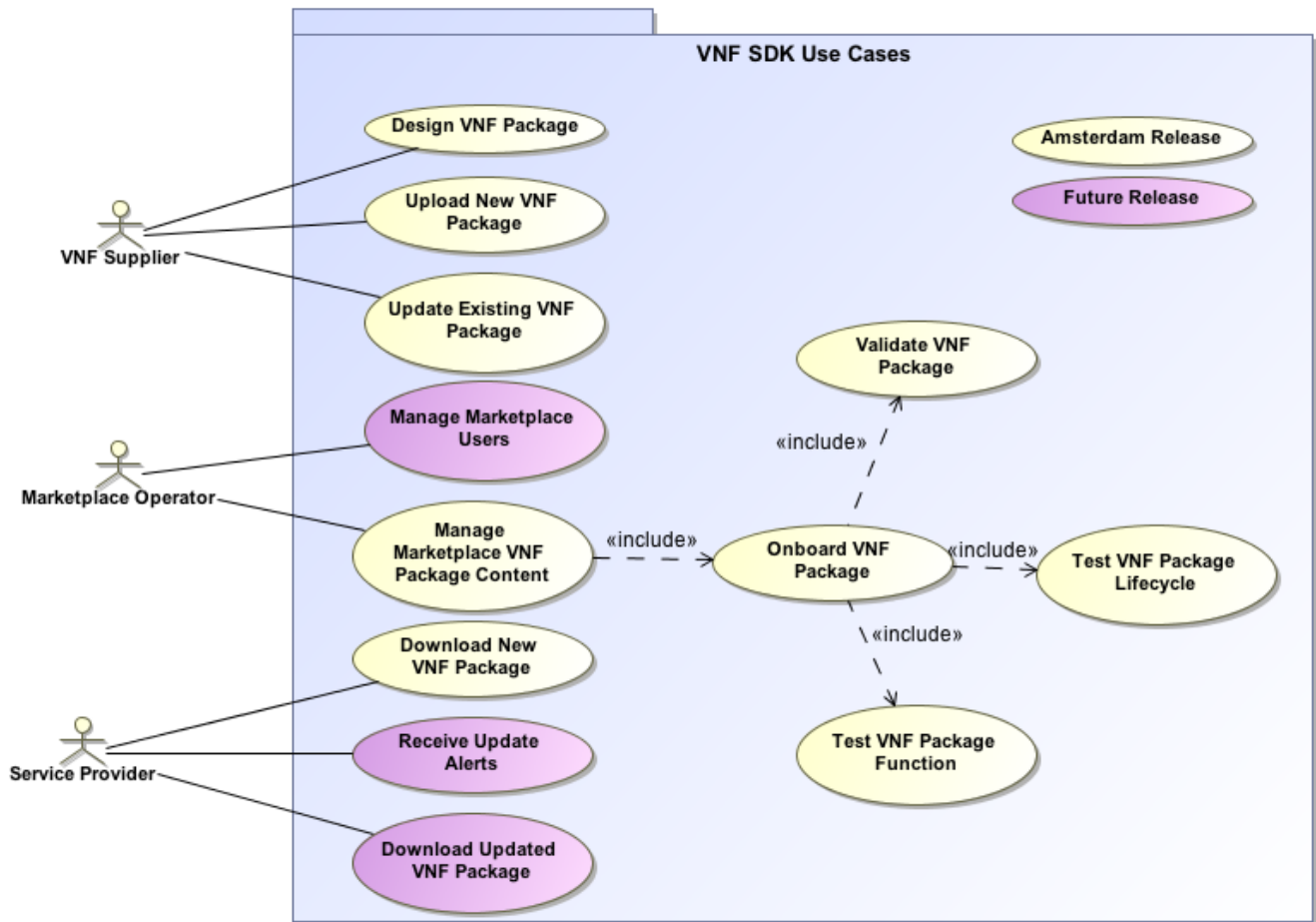| PROJECT	PTL	User Story / Epic	Requirement
A&AI	William Reehil		

AAF	Jonathan Gathman		
APPC	Takamune Cho		
CLAMP	Gervais-Martial Ngueko		
CC-SDK	Dan Timoney		
CPS	Toine Siebelink		
DCAE	Vijay Venkatesh Kumar		
DMaaP	Mandar Sawant (Old) Fiachra Corcoran (New)		
External API	Adrian OSullivan		
HOLMES	Guangrong Fu		
MODELING	Hui Deng		
Multi-VIM / Cloud	Bin Yang		
OOF	krishna moorthy		
OOM	Sylvain Desbureaux		
POLICY	Jim Hahn		
PORTAL	Sunder Tattavarada		
SDN-C	Dan Timoney		
SDC	Christophe Closset		
SO	Seshu Kumar Mudiganti		
VID	Ikram Ikramullah		
VF-C	Yuanhong Deng		
VNFRQTS	Steven Wright		
VNF-SDK	Weitao Gao (Old) user-67d6f (New)		
CDS	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

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
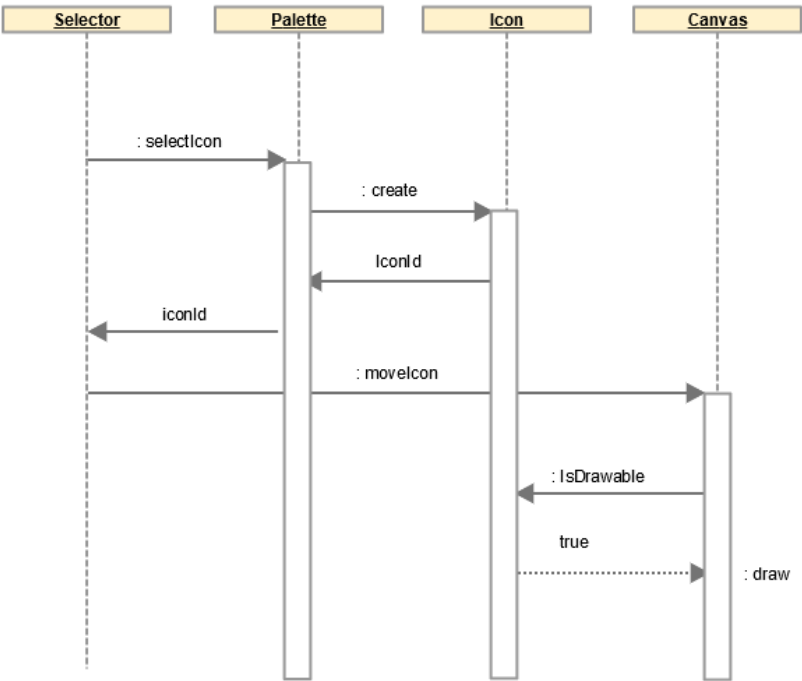
Current Status

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

Summary Sequence Diagram

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