

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 | | |

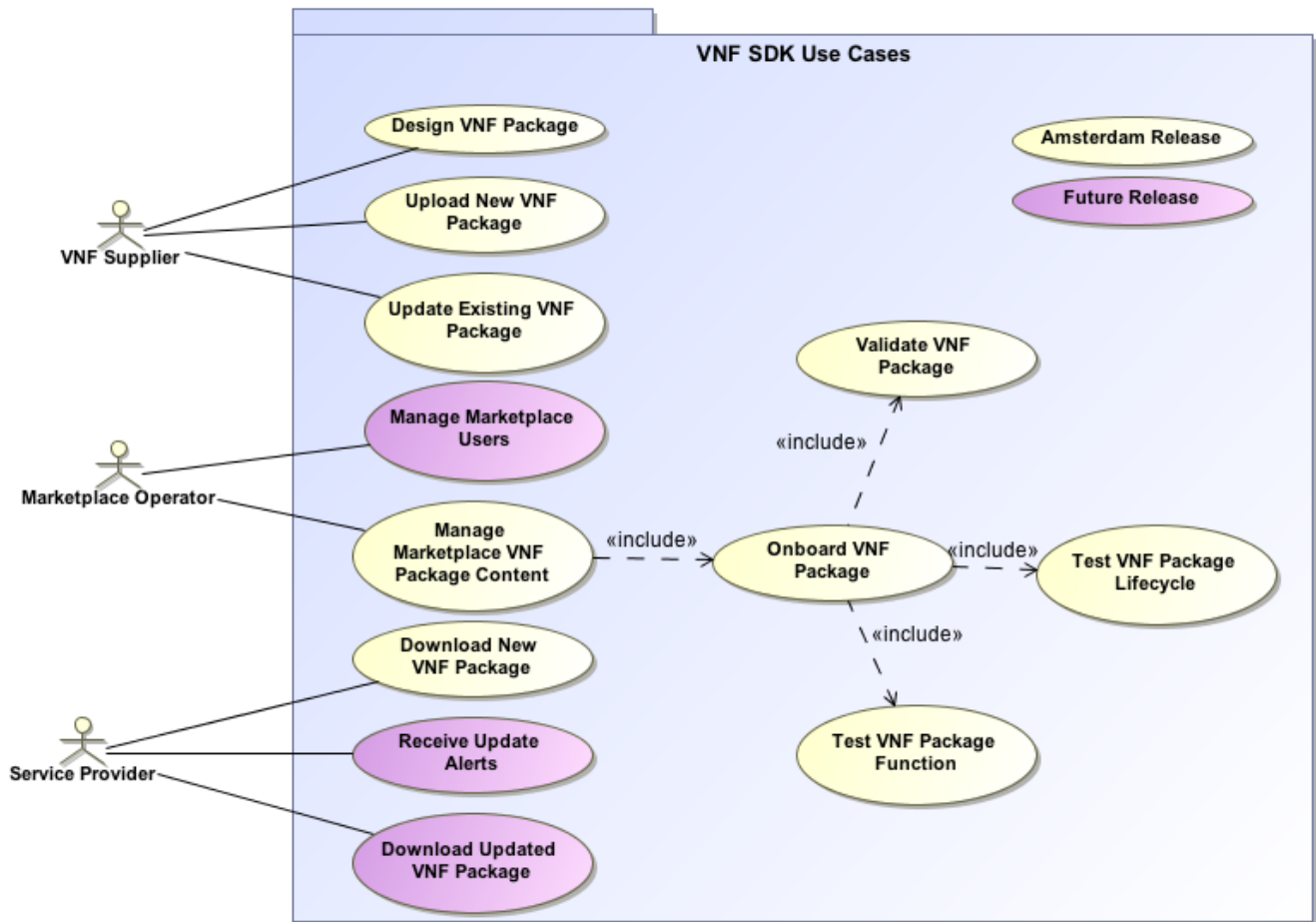
| | | | |
|----------------------|--|--|--|
| AAF | Jonathan Gathman | | |
| APPC | Takamune Cho | | |
| CLAMP | Gervais-Martial Ngueko | | |
| CC-SDK | Dan Timoney | | |
| CPS | Toine Siebelink | | |
| DCAE | Vijay Venkatesh Kumar | | |
| DMaaP | Mandar Sawant (Old) Fiachra Corcoran (New) | | |
| External 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 | <i>Title of the Use Case</i> |
| Actors (and System Components) | <i>The list of Actors and System Components that participate in the Use Case</i> |
| Description | <i>Short overview of the Use Case</i> |
| Points of Contact | <i>Authors and maintainers of the Use Case.</i> <i>Use Case Lead, Key Use Case members and code contributors.</i> |
| Preconditions | <i>A list of conditions that are assumed to be true before the Use Case is invoked</i> <i>Includes description of Information Consumed</i> |
| Triggers / Begins when | <i>Describes the trigger for beginning the Use Case</i> |
| Steps / Flows (success) | <i>Describes the sequence of steps and interactions that occur during the Use Case (may include: description, data exchanges, functionality, state changes)</i> <i>Interaction diagrams may be included or referenced</i> |
| Post-conditions | <i>The expected results of the execution of the Use Case</i> <i>Includes description of Information Produced</i> |
| Alternate / Exception Paths | <i>Description of any exceptions or special process that could occur during Use Case</i> |
| Related Use Cases | <i>List of the Use Cases referenced by this Use Case</i> |
| Assumptions | <i>Describes any assumptions that are made for this use case</i> |

TESTING

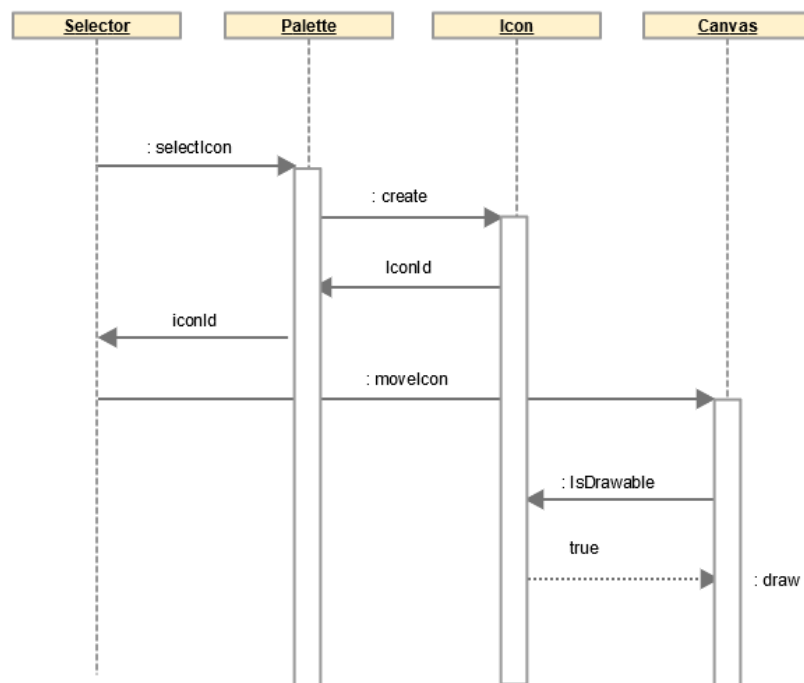
Current Status

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 |
| | | |