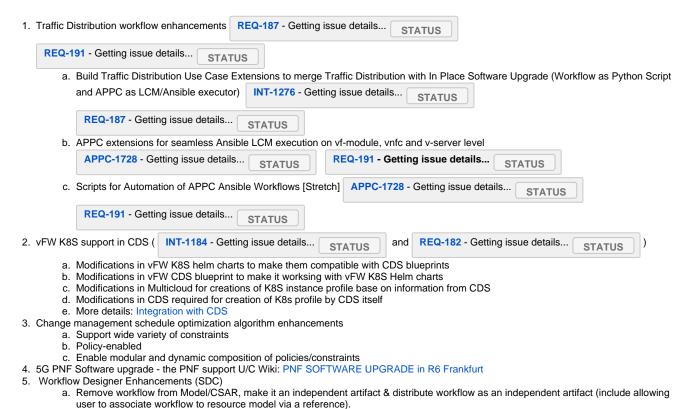
#### **Change Management Frankfurt Extensions**

- R6 USE CASE OBJECTIVES
- BUSINESS DRIVER
- Development Status
- Test Cases and Status

#### **R6 USE CASE OBJECTIVES**



#### **BUSINESS DRIVER**

Executive Summary - Enable automated, flexible and safe design, scheduling and execution of change activities across the network for physical and virtual network functions.

**Business Impact** - This will enable significant improvement of operational efficiencies and minimizing the risk of service impact during change deployments across the network.

Business Markets - Applicable to physical and virtual network functions deployed in large operational networks - cellular service (4G/5G), cloud service and data center networks.

Funding/Financial Impacts - Potential of significantly reducing the OPEX.

b. Enhance Workflow Designer to support Service Level workflows.

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**

Project	PTL	User Story / Epic	Requirement
AAI	James Forsyth		

APPC	Takamune Cho	APPC-1728 - Getting issue details STATUS	Delivery of "vFW Software Upgrade and Traffic Distribution" Use Case transfromed from "vFW Traffic Distribution Use Case"     APPC extensions for seamless Ansible LCM execution on vf-module, vnfc and v-server level     Automation of APPC configuration for Ansible [Stretch]	
CLAMP	Gervais-Martial Ngueko			
OOF	Shankaranarayanan Puzhavakath Narayanan			
Policy	Pamela Dragosh			
SDC	Ofir Sonsino	Wish List - No US/Epic	Make Workflow Independent Artifact     Enhance WFD to support Service Level Workflows	
SDNC	Dan Timoney		Delivery of "vFW K8s Use Case" Integrated with CDS - modification in CDS required for K8s workflow support	
SO	Seshu Kumar Mudiganti	Wish List - No US/Epic	Workflow as Independent Artifact     Support Service Level Workflows	
VID	Ofir Sonsino	Wish List - No US/Epic	Support Service Level Workflows	
VNFR QTS	Steven Wright			
INT		1. INT-1184 - Getting issue details STATUS  INT-1276 - Getting issue details STATUS	Delivery of "vFW K8s Use Case" Integrated with CDS: Helm charts and CDS blueprint     Delivery of "vFW Software Upgrade and Traffic Distribution" Use Case transfromed from "vFW Traffic Distribution Use Case"	
MULTI	Benjamin Cheung	1. INT-1184 - Getting issue details STATUS	Creation of K8S profile base on the input from CDS. The profile will be created by Multicloud component just before the instantiation of vFW "VNF"	

<sup>\*</sup>Each Requirement should be tracked by its own User Story in JIRA

# **SDC**

Make Workflow Independent Artifact	Remove the Workflow BPMN from the resource model (in CSAR) and make it an independent artifact. The workflow needs to be distributable as an independent artifact without changing the major model version. SDC to allow a user to associate the independent WF artifact to any SDC model. The model will reference the workflow using a reference.  May require revamping SDC model versioning to include a minor version component so that administrative changes to a model do not change the major version number which requires a re-spin.
Enhance Workflow Designer (WFD) to support Service Level Workflows	Enhance WFD to create workflows that operate at the service level. The workflow developed defines the order and specific resources to be updated and allows the user to create a workflow to perform the required changes. Changes may include SW Updates, configuration changes. Service level workflows are to be treated as Independent artifacts and associated with service model via a reference. Composition of the workflow may involve sequential and/or parallel processing.

# SO

ow as Indep enden	Modify acceptance of WF distribution as an independent artifact and store it. Interpret WF association within the resource model and be able to pull the independently stored workflow upon execution request for the resource model. Recognize the new distribution of the model where the major version number did not change but a minor version has and therefore needs to stored. Enhance process for pulling the list of native workflows and those associated with the resource model via a reference to the independent WF artifact and provide VID with the list as is done today.
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Supp ort Servic e Level Workfl ows	Enhance Northbound SO interface to specify Service Level workflow requests with additional parameters that are resource specific. Enhance execution engine, error (aka rainy day) handling and Northbound status reporting to support service level workflows. Execution of the workflow may involve parallel processing of service components (resources).
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# **VID**

Enhan ce UI to suppo rt Servic e Level Workfl ows	Enhance the VID interface to support workflows that operate at the service level. Allow user to select service types and specific services that are first filtered and pulled from inventory. Ensure design minimizes latency when obtaining the list of service instances (employ filtering). Ensure user friendly filtering and service instance selection at the UI. VID to display Service level workflows and accept required parameters to be passed to SO (VID-SO interface enhancements required). Enhance UI to allow user to enter resource specific parameters and to display service level workflow status (may require status for parallel workflow branches or resources). Provide ability to continue or abort a workflow that is in an error state (may require ability to continue/abort parallel branches or service resources).

### **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