VF-C Honolulu Architecture Review

Project Overview

VF-C leverages ETSI NFV MANO architecture and information model as a reference, and implements full life cycle management and FCAPS of VNF and NS.

- support NS and VNF lifecycle management based on the ONAP tosca data model and workflow
- support integration with multi VNFMs via drivers, which include vendors VNFM and generic VNFM
- support integration with multi VNFs via generic VNFM, which does not provide VNFM function
- support integration with multi VIMS via Multi-VIM, which include the opensource and commercial VIMs
- support microservice architecture and model driven orchestration and management

  VF-C has two main components:
- NFV-O Component,
- GVNFM Component

For more component description - ARC VFC Component Description – Honolulu-R8

New component capabilities for Guilin, i.e. the functional enhancements

There are no planned enhancement features for Honolulu, only minor bug fix.

VFC will support TSC must have items and continue to improve platform maturity: enhance scalability, manageability, security.

New or modified interfaces

None

If they are modified, are the backwards compatible?

None

Interface naming

VF-C supports the following APIs:

1. NSLCM APIs (Create/Instantiate/terminate/delete/scale/heal....), such as

   api/nslcm/v1/ns
   api/nslcm/v1/ns/(?P<ns_instance_id>[0-9a-zA-Z_-]+)/instantiate
   api/nslcm/v1/subscriptions
   api/nslcm/v1/ns_lcm_op_occs

Reference to the interfaces

https://wiki.onap.org/download/attachments/71840871/nslcm-swagger.yaml?version=1&modificationDate=1574760354000&api=v2

What are the system limits

Now the component Redundancy and scaling depends on Kubernetes.

Involved use cases, architectural capabilities or functional requirements

No new use case support planned for Honolulu release.

VFC has been used in Use case: VCPE and requirement: OVP in Guilin release.

Listing of new or impacted models used by the project (for information only)