REQ-627 – CNFO – Istanbul Extensions

Lukasz Rajewski (Orange)

Seshu Kumar M (Huawei)

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CNFO - Summary for the requirement subcommittee

Executive Summary - Provide CNF orchestration support through integration of K8s adapter in ONAP SO

- Support for provisioning CNFs using an external K8s Manager

- Support the Helm based orchestration

- leverage the existing functionality of Multi cloud in SO

- Bring in the advantages of the K8s orchestrator

- Set stage for the Cloud Native scenarios

Owners: Lukasz Rajewski (Orange), Seshu Kumar M (Huawei)

Business Impact - Enables operators and service providers to orchestrate CNFs based services along with the VNFs and PNFs

Business Markets - All operators and service providers that are intended to use the CNFs along with PNFs / VNFs

Funding/Financial Impacts - Reduction in the footprint of the ONAP for CNF support.

Organization Mgmt, Sales Strategies - *There is no additional organizational management or sales strategies for this requirement outside of a service providers "normal" ONAP deployment and its attendant organizational resources from a service provider.*

REQ-341 Guilin

REQ-458 Honolulu
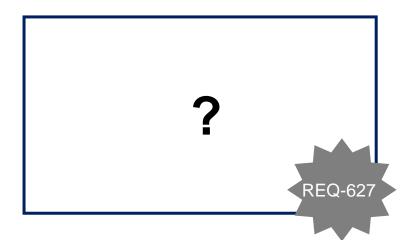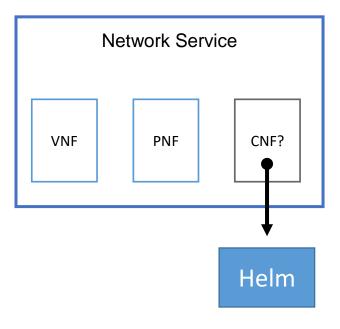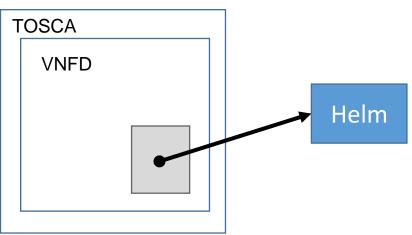
REQ-627 Istanbul+

CNFO Evolution

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REQ-341

REQ-458

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ONAP - ETSI CNF model Alignment

Deployment Maturation and Day2

- Improvement of Helm Distribution (SDC/SO)
- Helm Deployment Maturity
  - Helm package validation
  - Helm 3.5
  - Helm pre-/post-installation hooks
- Simple CNF Healthcheck
- AAI Basic CNF Changes

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Scope for REQ-627 – Istanbul

- SDC Enhancements

  - Validation of Helm 3 package

  - Improvements in Helm distribution

- AAI model changes (stretch)

  - K8s resource (name, version, kind) -> similar role to vserver object

  - Snapshot of Status API result in AAI

  - AAI API - Exposure of Status API result with conversion to JSON

- K8sPlugin Helm Deployment Improvements

  - Query API for cluster resources

  - Helm 3 support

  - Query API notifications (stretch)

  - Pre-/Post-Installation Hooks (stretch)

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Scope for REQ-627 – Istanbul

- ## SO CNFO Enhancements

  - Status API Integration

  - HealthCheck API Integration

  - Dedicated CNF Health Check Workflow in SO

    - Status Check

    - Test Jobs Execution

  - AAI synchronization after changes -> Query based (stretch)

  - CNF Tenant recognition (stretch)

  - Distribution of Helm package to k8splugin by CNF Adapter (stretch)

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