OSC Standalone CNFM POC

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Demo to OSC RSAC (2023-05-17)
ASD (Application service descriptor)

- ASD is an innovative modelling and packaging approach for containerized workloads
- It is an alternative to ETSI MANO VNFD based approach.
- ASD deliberately target single Kubernetes (K8S) deployments. Multiple K8S clusters gets handled using helm clients.
- CSAR package adhering to ETSI SOL004.
ONAP ASD POC

• It executed in ONAP around 2022-2023.
• Sample applications used are {MariaDB, nginx}, {Free5GC and UERANSIM}.
• The packages have been onboarded in ONAP management system.
• Using ONAP components, the components mentioned in ASD have been successfully instantiated in the underlaying Kubernetes cluster.
• ASD = SDC VF
• ASD Deployment Item = SDC VF-Module
ONAP SO CNFM (Cloud-native Network Function Manager)

• Supports NBI which implements AS LCM RESTful protocols.
• Manages ASD and associated Helm Charts Queries.
• Invokes Helm commands to deploy ASD-CNFS.
• Invokes Kubernetes Java API to monitor K8s resources.