OSC Standalone CNFM POC

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OSC NONRTRIC Team

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.
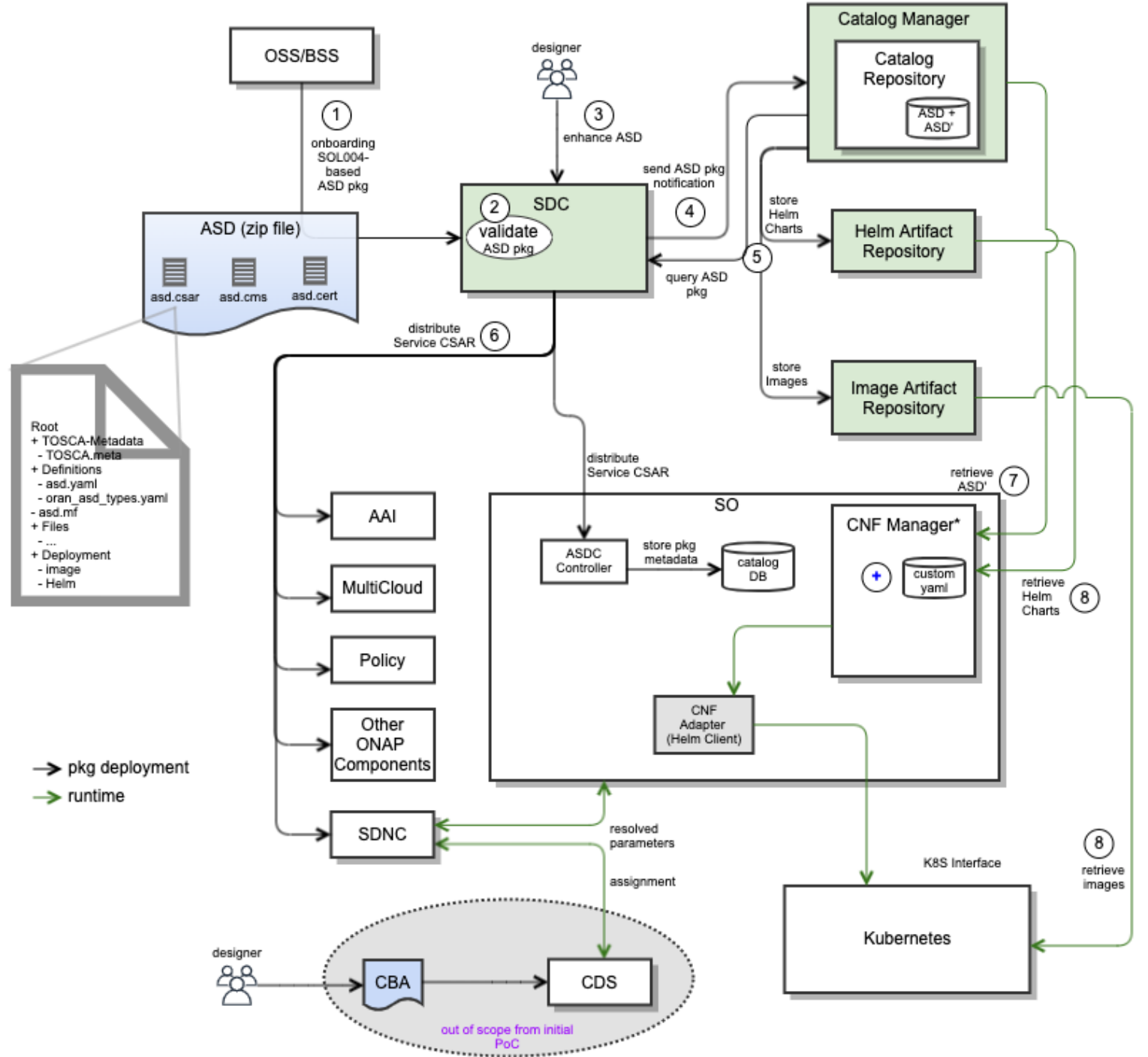
- CSAR package adhering to ETSI SOL004.

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

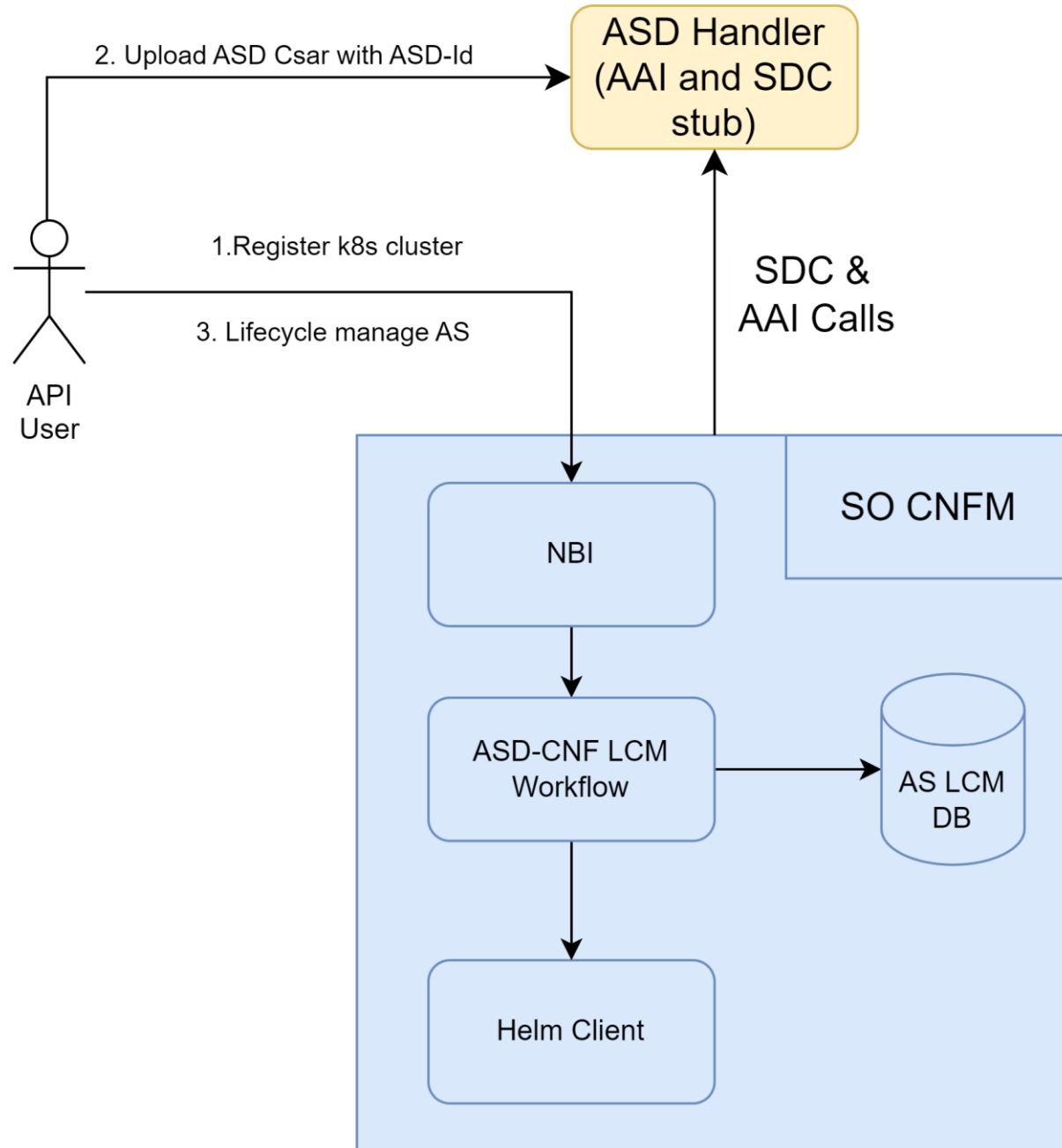- ASD Deployment Item = SDC VF-Module

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.

ONAP ASD & CNFM POC Architecture

OSC Standalone CNFM Architecture

Ericsson Software Technology

O-RAN
ALLIANCE