

# REQ-890 - CNFO - Jakarta Extensions

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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

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REQ-341<sub>Guilin</sub>

REQ-458

REQ-627 Istanbu

REQ-890 Jakarta

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.



#### **CNFO** Evolution













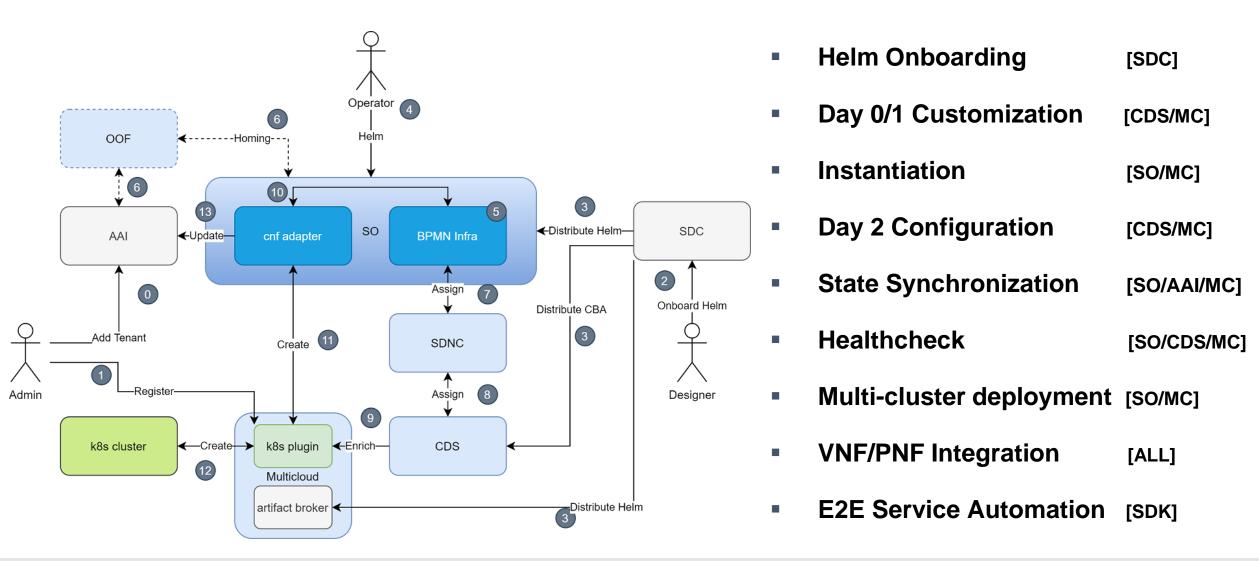






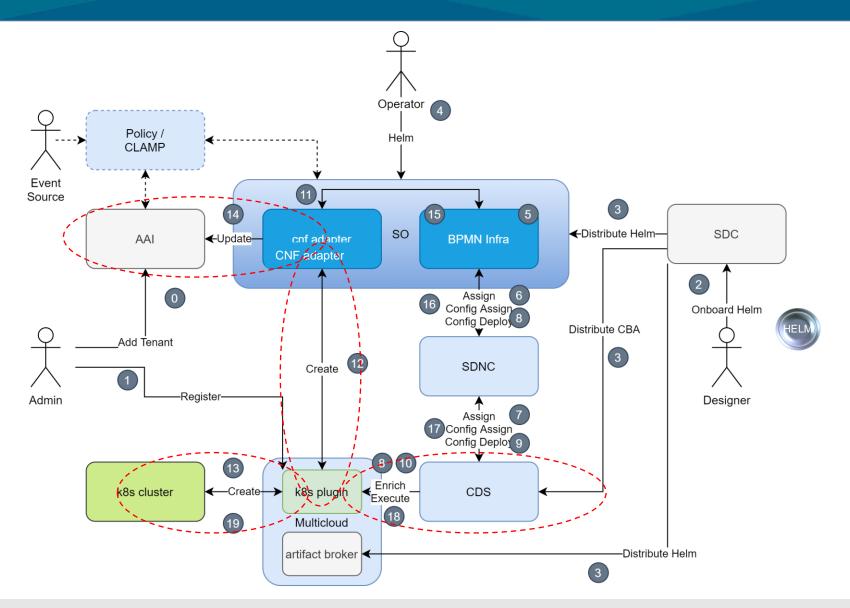


#### **CNFO After Istanbul**





### Istanbul - CNF Adapter Instantiation Flow



#### Improved Day2 & CNF Update

- AAI Update After Day-2
- Improved CDS suport for CNF
- Helm Upgrade
- SO CNF Update BB
- CNF Update Workflow (stretch)
- K8sResource Status
  Change in CLAMP (PoC)

## Scope for REQ-890 – Jakarta

- Multicloud/K8sPlugin
  - Instance Helm Upgrade
    - Base on new RB definition version
    - Similar to Helm Upgrade operation
  - Pre-/Post Upgrade Hooks
  - Status API notifications mechanism.
- CCSDK/CDS
  - Native Support for k8sPlugin APIs added in Istanbul & Jakarta
- Policy/CLAMP (PoC)
  - K8sResource Status Change Event
  - K8sResource Enrichment for CDS/SO Action Execution

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## Scope for REQ-890 – Jakarta

- SO CNFO Enhancements
  - AAI synchronization after Day-2 Operations
    - Auto-update of information in AAI (K8sResource Create/Update/Delete)
    - Based on status notifications from k8sPlugin
  - CNF Update Support
    - CNF Upgrade BB (Helm Upgrade)
    - CNF Update Workflow (stretch)
  - CNF Creation with status verification (stretch)
  - CNF Tenant recognition (stretch)
  - Distribution of Helm package to k8splugin by CNF Adapter (stretch)

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