HANDS-ONAP Experience VNF onboarding, ONAP hackathon







Agenda

- Overview
- High Level Architecture
- Design time Architecture
- Run time Architecture
- Summary







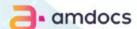




Outline

- Overview
- High Level Architecture
- Design Component Architecture
- Run-Time Component Architecture
- Summary











Linux Foundation Framework, Governance, Control

Bringing the best of both worlds together



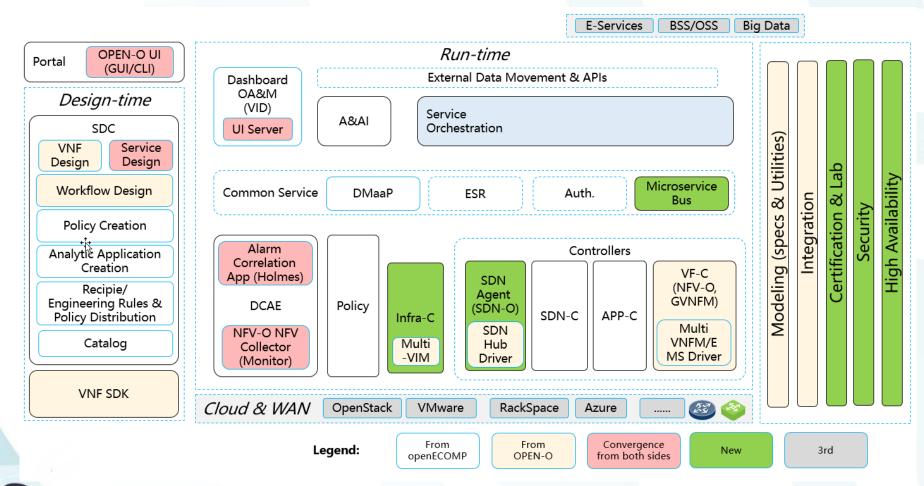


- +2+ years of Deployment Maturity at AT&T
- + Comprehensive: Design +Orchestration + Control + Policy + Analytics
- + Model-based design enabling self-serve capabilities for instantiation and closed loop automation

- + Open TOSCA model
- + Most Advanced Open Source Process & tool chain
- + Architected for ease of VNF insertion (SDK)



Open ECOMP and Open-O Merger into ONAP harmonized architecture













- Overview
- High Level Architecture
- Design Component Architecture
- Run-Time Component Architecture
- Summary







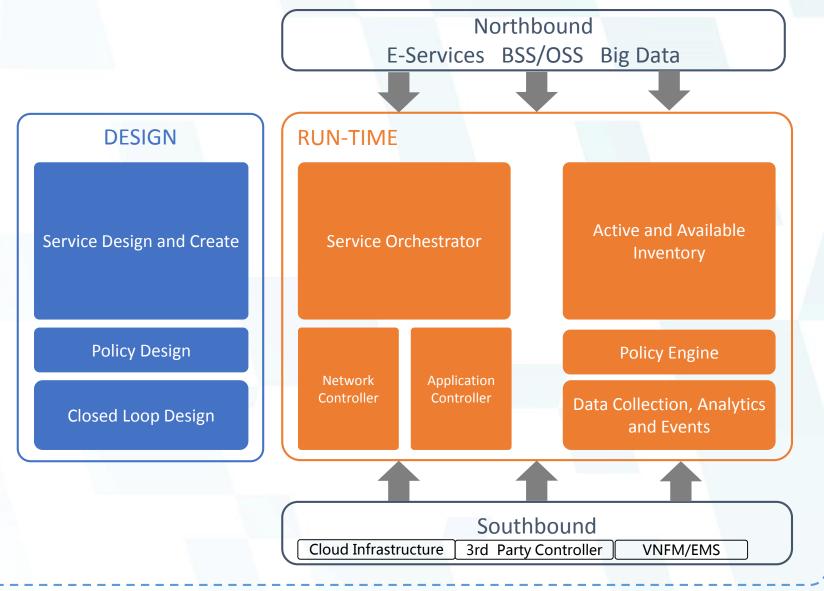




ONAP Architecture Overview

Three Main Groups

- Design
- Deploy
- Operate













- Overview
- High Level Architecture
- Design Main Component Architecture
- Run-Time Main Component Architecture
- Summary

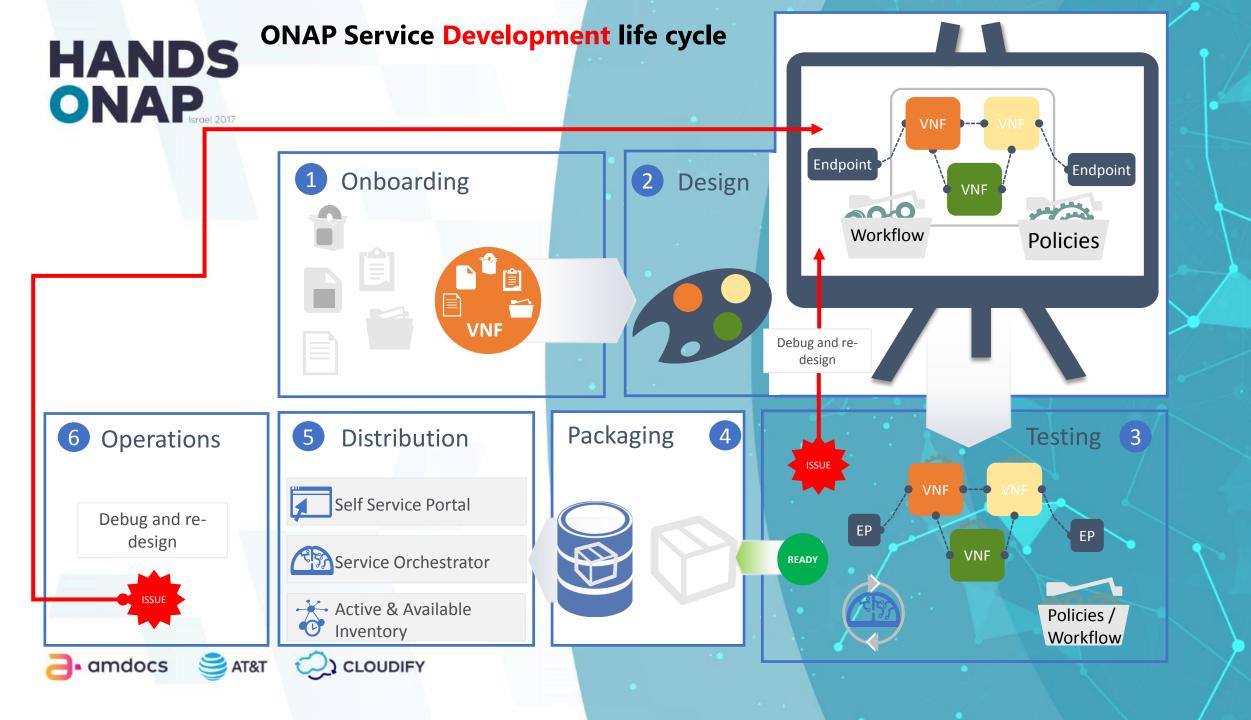




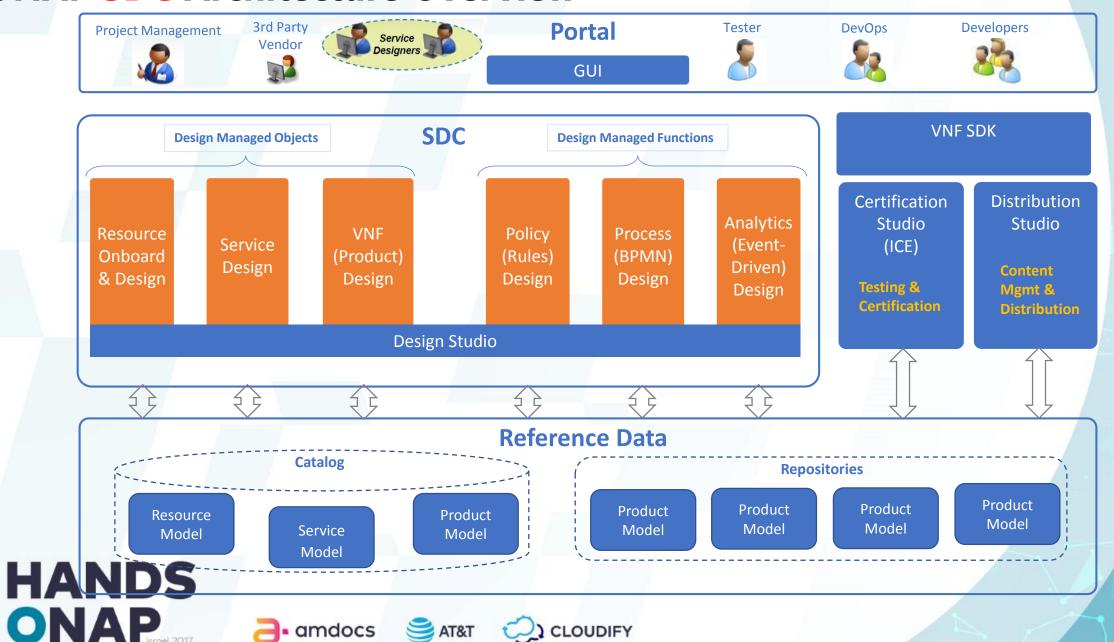








ONAP SDC Architecture Overview



- Overview
- High Level Architecture
- Design Main Component Architecture
- Run-Time Main Component Architecture
- Main Process and Flows



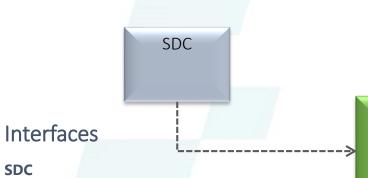








ONAP MSO (SO) Architecture and Interfaces Overview



SDC

- Distribution of orchestration artifacts
- UEB event notifications, HTTP artifact retrieval

AAI

- Query and update inventory
- RESTful API

Multi-VIM

- Instantiation of virtual resources in the cloud
- Openstack APIs (primarily Heat and Keystone)

SDN Controller

- Assign and configure network resources
- Yang-based RPC and REST

App Controller

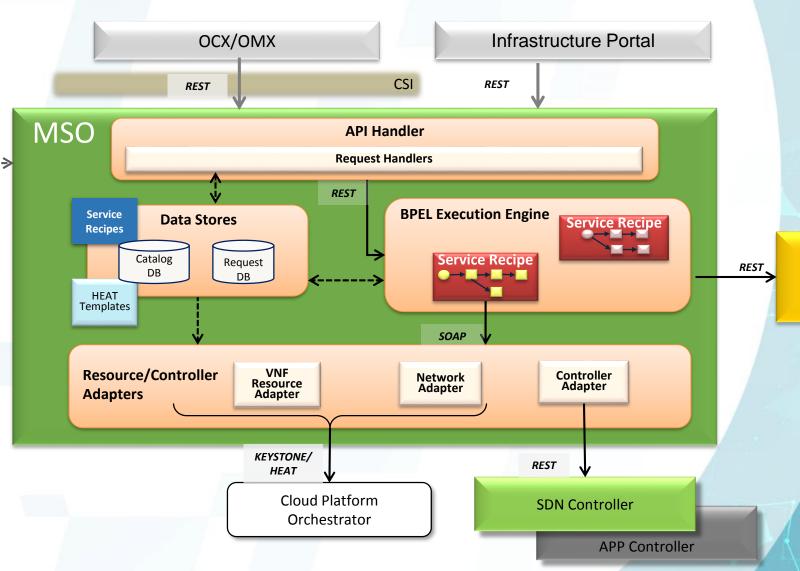
- Assign and configure application resources
- Yang and/or event based API





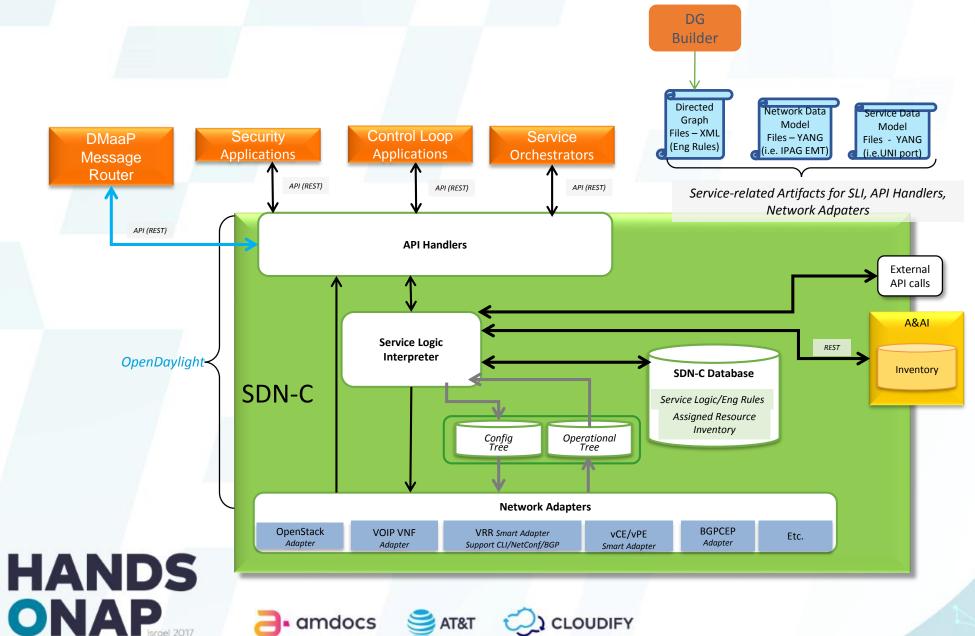






AAI

ONAP SDN-C Architecture and Interfaces Overview



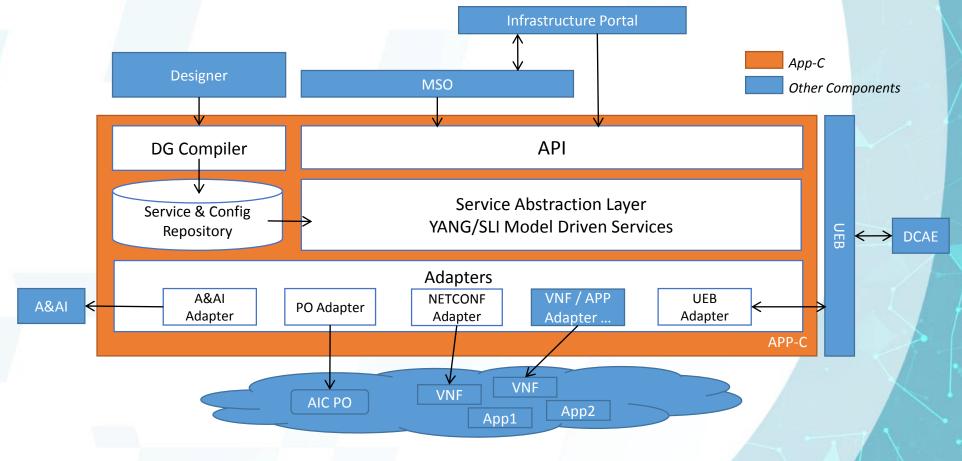






ONAP APP-C Architecture Overview

- Configuration Management
- Control Loop Actions
 - Restart
 - Rebuild
 - Migrate
 - Suspend / Destroy





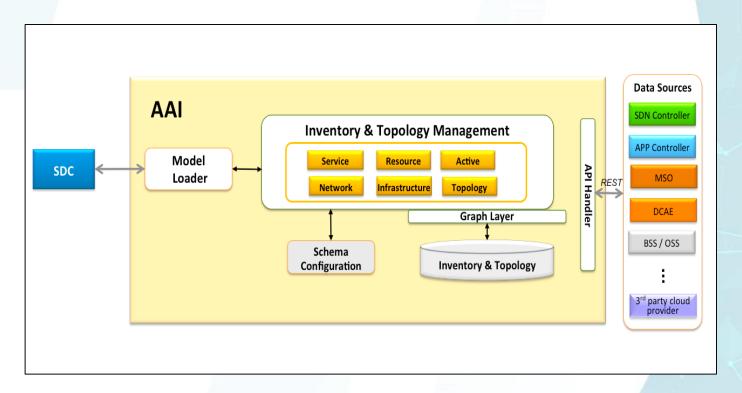






ONAP A&AI Architecture Overview

- Central registry to create a global view of inventory and network topology
- Receives updates from various inventory
- Provides standard APIs





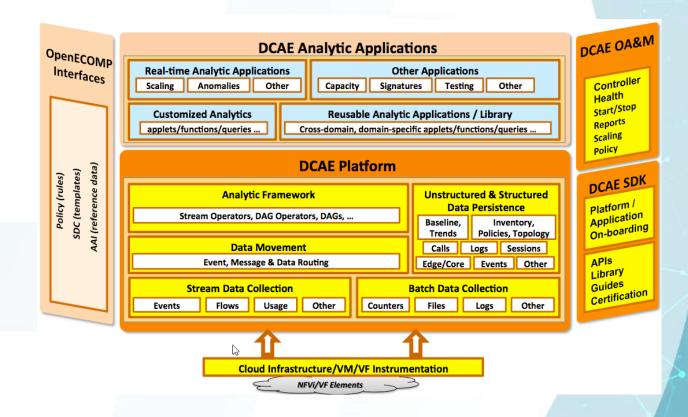






ONAP DCAE Architecture Overview

- Data Collection, Analytics, and Events (DCAE) subsystem
- gathers performance, usage, and configuration data from the managed environment
- This data is then fed to various analytic applications, and if anomalies or significant events are detected
- The primary functions of the DCAE subsystem are to
 - Collect, ingest, transform and store data as necessary for analysis
 - Provide a framework for development of analytics











- Overview
- High Level Architecture
- Design Main Component Architecture
- Run-Time Main Component Architecture
- Summary



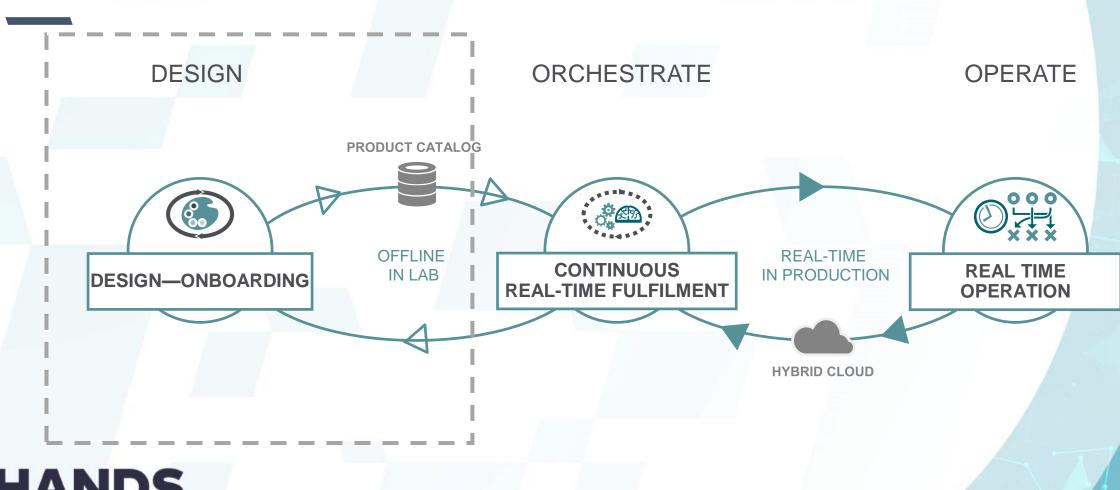








ONAP Service Lifecycle Management



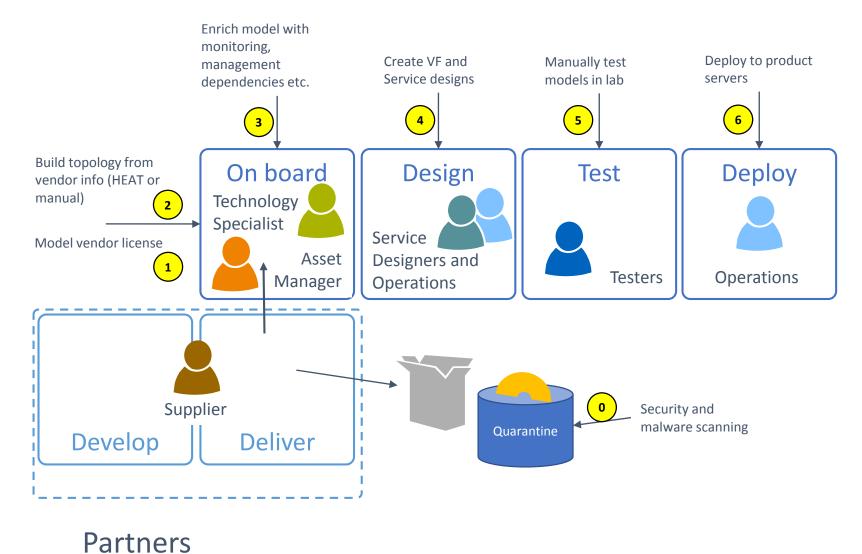








Design Flow – VNF and Service Design





HANDS-ONAP

Experience VNF onboarding, ONAP hackathon





