OSAM Use Case
(Open Source Access Manager)

OSAM Use Case Team

ONAP Casablanca Developer Forum

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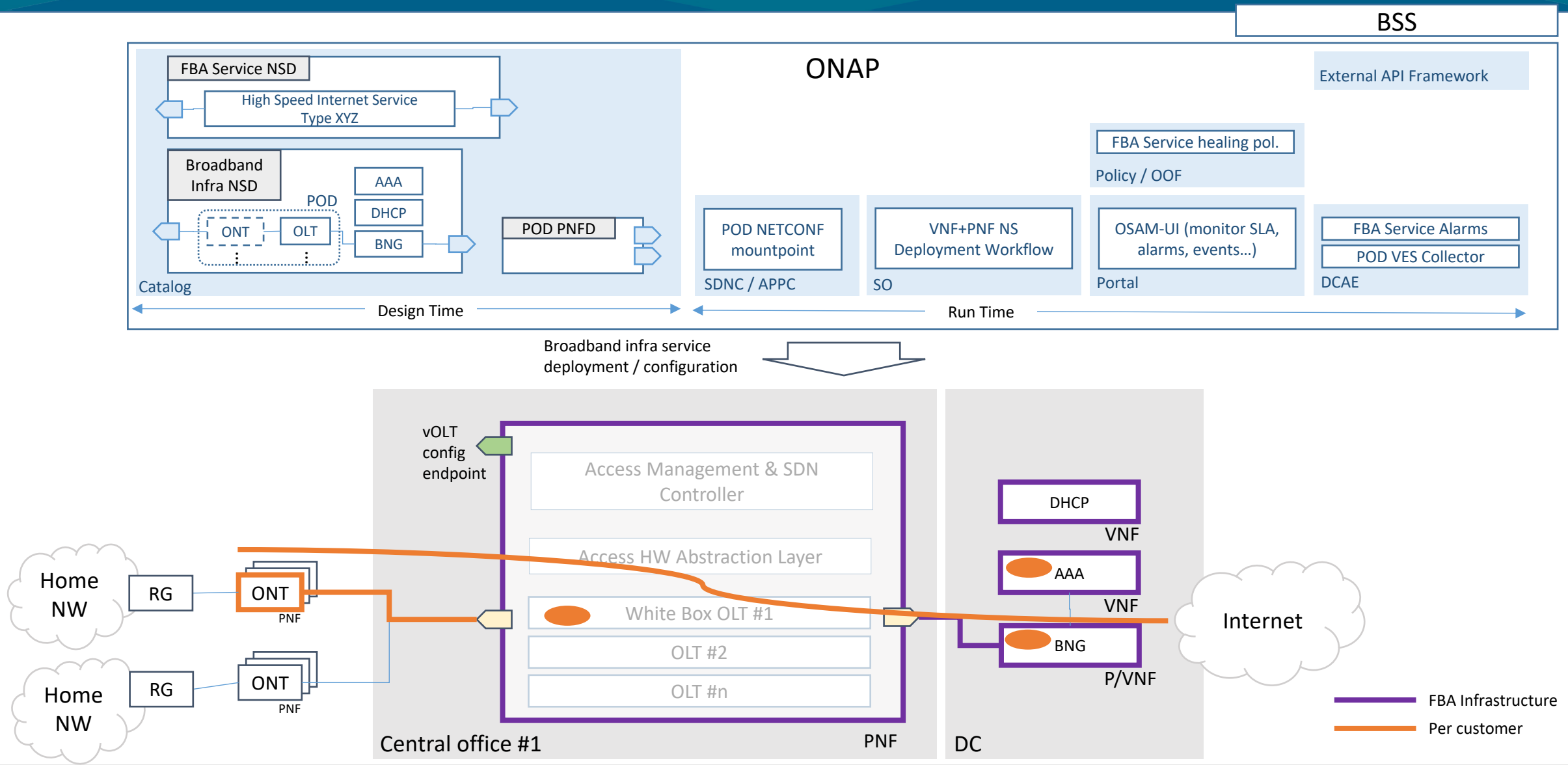
OSAM

- Description
  - Management and control of the Access Peripheral POD (located in Telco Central Offices) as a PNF. Should provide monitoring capability and support 100’s of thousands of Access Peripheral POD deployment in Telco office

- Contributors

- Impacted Projects
  - SDC/Modelling, External API, SO, SDNC, APPC, DCAE, AAI, Policy, OOF

Fixed Broadband Access as a network service



OSAM MVP Target (Casablanca rel.) 1/2

- Portal:
  - OSAM-UI dashboard - Operational tools for management and visualization of a service instance; Web portal for ONU/OLT topology, ONT/OLT usage and configuration visualization
- SDC (Modeling):
  - Access peripheral POD PNF package / onboarding
  - Access peripheral POD PNF Discovery, registration
  - Access peripheral POD PNF configuration via NETCONF/Yang (e.g. BBF TR-383, WT-385)
  - Define NSD for Access peripheral POD connectivity
- SO/Policy/OOF:
  - Cross-domain service orchestration (access, transport, cloud)

OSAM MVP Target (Casablanca rel.) 2/2

- AAI:
  - Inventory of POD/OLT Ports in AAI
- External API:
  - Support top down customer service provisioning, BSS service order
- APPC:
  - Access peripheral POD Lifecycle Management –Change management-software upgrades;
- DCAE:
  - Transformation and Publish Metrics/events/alarms to ONAP – VES Agent/Collector
  - PNF telemetry data collection via DCAE (and event correlation) – what events/alarms and frequency
  - Local Analytics in the POD (Distributed DCAE) - **stretch goal**

OSAM Demo

- Access Peripheral POD onboarding and monitoring

- ONAP – Access POD:
  - OLT auto-discovery, registration and configuration (Zero Touch Provisioning)
  - ONT zero touch provisioning (registration, authentication and activation)
  - ONT deletion (release OLT port)

Request for feedback

- AAI – What is the scale limitation?
- Service Modeling - Per customer and infrastructure service vs only infrastructure service
- Distributed DCAE (Analytics at the central office) – Coordinate with edge automation use case?

ONAP
OPEN NETWORK AUTOMATION PLATFORM