

AAI R4 Use Case and Functional Requirements Impacts

This area is for analysis of features and one-pagers with a high level LOE from which Epics will be written for the Dublin Release

5G Use Case (Dublin)

Feature Name	LOE	Comments
PNF Plug and Play (Casablanca carry-over items)	Moderate	- Potential schema changes: - PNF - Enhance A&AI schema to support PNF inventory, its state, and topology / attributes unique to 5G PNF - Using the pnf-id (instead of pnf-name) as the index for PNF into A&AI. Achieve naming indexing consistency between PNFs and VNFs. - Migration for previously created PNFs - Impacts all API calls/all clients interacting with PNFs (alternate solution proposed: A&AI could provide a generic solution to redirect client request URI to a valid URI by translating the client's request to a valid URI) - Cloud-region - Tracking the Cloud Home Server (CLLI, Cloud ID); and association with the COMPLEX. (existing schema)  AAI-2096 - PNF Plug and Play CLOSED
PNF Pre-Onboarding & Onboarding	Moderate	- Ingest and use 5G NF Packages (CSAR file), PNF Artifacts, Definitions, TOSCA-Metadata - Requires changes to A&AI model loader - Run-time catalog update to associate artifacts to a PNF - ONAP Run Time Activities: 5G Service Instantiation  AAI-2097 - PNF Pre-Onboarding & Onboarding CLOSED
5G Network Slicing	Moderate	Advanced 5G functionality, for Network Slicing development and early steps in long-lead development. Service slicing allows advanced steering of services, based on policy, GW loading, and other criteria. Maintain inventory of instantiated slice subnets, E2E slices, their states and their hierarchical relationship Impacts: - A&AI shall store vSSF (Virtual Slice Selection Function) inventory (and associated EMS inventory) and forward it to downstream systems (eg, DCAE, AOTS-M). (Assumes ONAP will use a vSSF software product and a supporting EMS from some vendor.) - Radio PNF's are deployed and configured (RA, TA's & cells) and shall be persisted in A&AI. - A&AI shall also contain inventory of available data centre sites with associated constraints.  AAI-2099 - 5G Network Slicing CLOSED
Bulk PM	N/A	Performance Measurements 5G RAN Bulk Upload, Casablanca Carry-over items No A&AI impact

Change Management Use Case (Dublin)

Feature Name	LOE	Comments
Schedule Optimization with Automated Conflict Avoidance	Test Only	Use existing GET Physical Server (pserver).

Traffic Migration Workflow	Easy	- Retrieve VNF level ipv4-oam-address. generic-vnf.ipv4-oam-address (existing property) - Change in the VNF model to introduce an dt-anchor-point capability to vnf of vf. (new property in generic-vnf) - Change in the VNF model to introduce an dt-destination-point capability to vnf of vf. (new property in generic-vnf) - There is a need to hold pairs of (dt-anchor-point, dt-destination-point) to allow ScaleIn for any VNF in Virtual service. (new properties in generic-vnf) ⚡ AAI-2100 - Change Management - Traffic Migration Workflow CLOSED
5G PNF Software Upgrade	Easy	SO verifies and queries A&AI for the appropriate PNF entry. (existing functionality). A&AI Entry of the PNF is updated with the appropriate software versions. Update Software Version in A&AI pnf.sw-version property (existing property) ⚡ AAI-2101 - 5G PNF Software Upgrade CLOSED

Feature Name	LOE	Comments
BBS Broadband Service Use Case (Dublin)	Test only	AAI's existing objects will be sufficient so satisfy the use case ⚡ AAI-1990 - BBS: Support BBS use case in AAI CLOSED
CCVPN Use Case (Dublin)	Moderate	⚡ AAI-1998 - Support CCVPN Extension use case in AAI CLOSED
K8S based Cloud Region Support	Test only	⚡ AAI-1340 - Schema Changes for K8S CLOSED
Continuation of HPA (Dublin)	Test Only	
VNF Scaling Program		