




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	<ul style="list-style-type: none">Potential schema changes:<ul style="list-style-type: none">PNF<ul style="list-style-type: none">Enhance A&AI schema to support PNF inventory, its state, and topology / attributes unique to 5G PNFUsing 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 PNFsImpacts 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<ul style="list-style-type: none">Tracking the Cloud Home Server (CLLI, Cloud ID); and association with the COMPLEX. (existing schema) <div> AAI-2096 - PNF Plug and Play CLOSED</div>
PNF Pre-Onboarding & Onboarding	Moderate	<ul style="list-style-type: none">Ingest and use 5G NF Packages (CSAR file), PNF Artifacts, Definitions, TOSCA-Metadata - Requires changes to A&AI model loaderRun-time catalog update to associate artifacts to a PNFONAP Run Time Activities: 5G Service Instantiation <div> AAI-2097 - PNF Pre-Onboarding & Onboarding CLOSED</div>
5G Network Slicing	Moderate	<p>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.</p> <p>Maintain inventory of instantiated slice subnets, E2E slices, their states and their hierarchical relationship</p> <p>Impacts:</p> <ul style="list-style-type: none">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. <div> AAI-2099 - 5G Network Slicing CLOSED</div>
Bulk PM	N/A	<p>Performance Measurements 5G RAN Bulk Upload, Casablanca Carry-over items</p> <p>No A&AI impact</p>

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	<ul style="list-style-type: none"> 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) <div>⚡ AAI-2100 - Change Management - Traffic Migration Workflow CLOSED</div>
5G PNF Software Upgrade	Easy	<p>SO verifies and queries A&AI for the appropriate PNF entry. (existing functionality).</p> <ul style="list-style-type: none"> 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) <div>⚡ AAI-2101 - 5G PNF Software Upgrade CLOSED</div>

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