

AAI Schema Producer-Consumer Pairings

Contributors

Keong Lim

Glossary

Term	Definition
producer-consumer pairings	Apart from "internal" AAI data, the data in AAI is produced by a non-AAI component and then consumed by another non-AAI component. Therefore the schema definitions and intended meanings of each schema element is not controlled by AAI itself.

References

- [AAI Schema Service Use Case Proposals](#)
- Meeting [notes](#) for [Use Case Realization meetings](#)

Producer-Consumer Pairs

	Producer	Consumer	AAI Representation	Scenario and References
1	SO	Closed Loop	<p>the "input-parameters" attribute of "service-instance" object described as:</p> <p>"String capturing request parameters from SO to pass to Closed Loop."</p>	<p>Closed loop scenario:</p> <ul style="list-style-type: none">• SO will create "service-instance" object in AAI• SO will store "customer-request" string on service-instance object in AAI• When Closed Loop call recreates the "service-instance", it will query "service-instance" information first, to get the "customer-request" <p>References</p> <ul style="list-style-type: none">▪ reference id AAI-1353-2 in AAI-CCVPN Schema Proposal for Casablanca Release▪ AAI discussion on 2018-11-28 ExtAPI Meeting notes
2	SO	ExtAPI	(see above?)	(see above?)
3	OOF	VFC	<ul style="list-style-type: none">• the "flavor name" attribute of "flavor" object• the "flavor id" attribute of "flavor" object	<p>scenario:</p> <ul style="list-style-type: none">• VFC component sources the "flavor name" from OOF component• Then VFC searches AAI using "flavor name" to find the corresponding "flavor id"• Finally "flavor id" is used to create a VM <p>References</p> <ul style="list-style-type: none">•  VFC-4193 - Get flavor Id from OOF CLOSED /•  OPTFRA-268 - OOF - project specific enhancements CLOSED /•  OPTFRA-294 - Optimize the use of AAI cache in HAS Data component CLOSED• See also discussion at https://lists.onap.org/g/onap-oof/topic/critical_issue_found_in/28277232
4	SDC	VID	<ul style="list-style-type: none">• /service-design-and-creation/models• custom query	<p>scenario:</p> <ul style="list-style-type: none">• SDC distributes models into AAI• Then VID calls custom query in AAI to get models by distribution status• Finally VID uses models for its functions (this is the main flow for VID) <p>References</p> <ul style="list-style-type: none">▪ https://lists.onap.org/g/onap-discuss/topic/openlab_vid_beijing_how/28275492
5	Multi-VIM / Cloud	OOF	<ul style="list-style-type: none">▪ /cloud-infrastructure/cloud-regions/cloud-region/{cloud-owner}/{cloud-region-id}/availability-zones	<p>Scenario:</p> <ul style="list-style-type: none">▪ Multi-VIM / Cloud collects Availability-Zone capacity data from Clouds into AAI▪ OOF retrieves Availability-Zone information of each Cloud Region from AAI▪ OOF makes homing / placement decisions for VNFs to support "teaming" use case <p>References</p> <ul style="list-style-type: none">▪ F-GPS (Dublin Summary)

6	MultiCloud	OOF	<ul style="list-style-type: none"> HPA 	<p>Scenario:</p> <ul style="list-style-type: none"> MultiCloud collects HPA telemetry/time-series data into AAI OOF retrieves telemetry from AAI OOF makes decisions based on the telemetry <p>References:</p> <ul style="list-style-type: none">  MULTICLOUD-274 - HPA telemetry data collection and persistence CLOSED 2018-12-06 AAI Developers Meeting
7	VNFM / ESR	VIM / VFC	<ul style="list-style-type: none"> "ssl-cacert" attribute on /esr-system-info-list/esr-system-info/{esr-system-info-id} vs "certificateUrl" <p>Question:</p> <ul style="list-style-type: none"> is it just a URL to a certificate file? or is it the literal contents of a certificate file? 	<p>Scenario:</p> <ul style="list-style-type: none"> VIM is registered to ESR including SSL certificates VNFM is registered to ESR including SSL certificates VFC retrieves connection details including SSL certificates VFC logs in to perform its control functions <p>References:</p> <ul style="list-style-type: none">  AAI-1104 - Invalid handling of external system certificates CLOSED
8	VID / SO / SDNC / OOF MultiCloud CLAMP / DCAE / DMaaP	VID / SO / SDNC / OOF MultiCloud CLAMP / DCAE / DMaaP	<ul style="list-style-type: none"> /cloud-infrastructure/cloud-regions/cloud-region/{cloud-owner}/{cloud-region-id} 'cloud-region-id' used in VID /SO/SDNC/OOF 'cloud-owner' + 'cloud-region-id' used by AAI and its consumers 'vim-id' = {'cloud-owner'}_{'cloud-region-id'} used by MultiCloud and its consumers dcaeLocation used by CLAMP, DCAE and DMaaP 	<ul style="list-style-type: none"> Centralized Representation and Consistent Identification of Cloud Regions In ONAP Consistent ID of a Cloud Region (Dublin)
9	MultiCloud	OOF	<ul style="list-style-type: none"> SR-IOV NIC from VIM sriov-pfs (SR-IOV physical functions, with relation to p-interface) sriov-vfs (SR-IOV virtual functions, with relation to l-interface) sriov-automation in cloud-region 	<p>Scenario</p> <ul style="list-style-type: none"> MultiCloud discovers SR-IOV NIC from VIM and registers it to AAI OOF gets cloud region ID, flavor id and physical nic alias from AAI OOF sends homing information to VF-C and SO <p>References</p> <ul style="list-style-type: none"> HPA - SR-IOV NIC design
10	Policy	SO	<ul style="list-style-type: none"> Scaling Use Case (Dublin) Dummy Incremental VF_Module 	<p>Scenario:</p> <ul style="list-style-type: none"> Policy has parameters and references values. User manually inserts Dummy Incremental VF_Module into AAI containing the values SO retrieves values from AAI What happens to the Dummy Incremental VF_Module afterwards? <p>References:</p> <ul style="list-style-type: none"> https://lists.onap.org/g/onap-usecasesub/topic/scaling_scaling_automation/29434667 <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p><i>[Scaling] Scaling Automation Requirements</i> From: Scott Blandford Date: Wed, 23 Jan 2019 16:52:31 UTC</p> <p>Scaling Team,</p> <p>Tech Mahindra is bringing some late requirements to the table for the Scaling Use Case. Fortunately, they are also bringing the resources to accomplish the goals.</p> <p>The goal is to automate some of the manual steps now required in the Scaling Use Case. The trickiest of these items is to eliminate the need for a Dummy Incremental VF_Module that needs to be inserted into AAI in order to pass the correct references in the Policy to SO API.</p> </div>
11	External PNF manager?	DCAE / CLAMP / SO	<ul style="list-style-type: none"> BBS Broadband Service Use Case (Dublin) Nomadic ONT scenario 	<p>Scenario:</p> <ul style="list-style-type: none"> External PNF manager discovers ONT and enters details into AAI DCAE / CLAMP correlate the ONT details to an existing PNF object in AAI and "nomadic ONT scenario" is recognised SO effectively moves the PNF / services to the new location <p>References:</p> <ul style="list-style-type: none"> https://groups.io/g/onap-bbs/topic/29523804

12	SO	MultiCloud	Workload update (heatbridge)	<p>Scenario:</p> <ul style="list-style-type: none"> SO queries workload information either directly from OpenStack or via MultiCloud for various other cloud types SO or MultiCloud update the information to AAI AAI data is used for auditing (or something else?) <p>References:</p> <ul style="list-style-type: none"> Proposal for generic AAI Workload Update (aka heatbridge) SO to Multicloud API enhancements
13	DCAE	SDNC ExtAPI	<p>BBS use case: https://groups.io/g/onap-bbs/topic/31027823</p> <p>Using service-instance ID to retrieve customer ID.</p> <p>Updating service-instance status after receiving DCAE event.</p>	<ul style="list-style-type: none"> DCAE_CL_OUT event contains AAI data as a field <pre> "AAI\": { \attachmentPoint\": \"olt11-1-1\", \service-information.hsia-cfs-service-instance-id\": \"1923eaa8-8ab7-49ef-b4c2-e185efbbe832\", \cvlan\": \"1005\", \svlan\": \"100\", \remoteId\": \"some-remote-id\" }, </pre> <ul style="list-style-type: none"> the value of "service-information.hsia-cfs-service-instance-id" can be queried in AAI using a Nodes query: <pre> GET https://aai.api.simpLEDemo.openecomp.org:30233/aai/v14/nodes/service-instances/service-instance/03b92492-c5c0-487a-b414-d5427ab6f041?format=resource_and_url </pre> <p>with the output results containing both a url and the service-instance resource object:</p> <pre> { "results": [{ "url": "/aai/v14/business/customers/customer/BBSCustomer/service-subscriptions/service-subscription/BBS_E2E_Service/service-instances/service-instance/03b92492-c5c0-487a-b414-d5427ab6f041", "service-instance": { "service-instance-id": "03b92492-c5c0-487a-b414-d5427ab6f041", "service-instance-name": "BBS_E2E_Service", ... } }] } </pre> <ul style="list-style-type: none"> The URL embeds the IDs of the customer, service-subscription and service-instance, without needing to do additional queries. This is useful for communicating to external systems through ExtAPI. The URL is also required to do a PUT call to update the status of the service-instance.
14	tbc	etc		