AAI Schema Producer-Consumer Pairings

Contributors

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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	the "input-parameters" attribute of "service-instance" object described as: "String capturing request parameters from SO to pass to Closed Loop."	Closed loop scenario: • 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" References • 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	• the "flavor name" attribute of "flavor" object • the "flavor id" attribute of "flavor" object	scenario: • 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 References • VFC-1193 - Get flavor Id from OOF `CLOSED` / • OPTFRA-268 - OOF - project specific enhancements `CLOSED` / • OPTFRA-291 - 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	• /service-design-and-creation/models • custom query	scenario: • 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) References • https://lists.onap.org/g/onap-discuss/topic/openlab_vid_beijing_how/28275492
5	Multi-VIM / Cloud	OOF	• /cloud-infrastructure/cloud-regions/cloud-region/{cloud-owner}/{cloud-region-id}/availability-zones	Scenario: • 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 References • F-GPS (Dublin Summary)

6	MultiCloud	OOF	• HPA	Scenario: • MultiCloud collects HPA telemetry/time-series data into AAI • OOF retrieves telemetry from AAI • OOF makes decisions based on the telemetry References: • 🔖 **MULTICLOUD-274** - HPA telemetry data collection and persistence `CLOSED` • 2018-12-06 AAI Developers Meeting
7	VNFM / ESR	VIM / VFC	• "ssl-cacert" attribute on /esr-system-info-list/esr-system-info/{esr-system-info-id} • vs "certificateUrl" Question: • is it just a URL to a certificate file? • or is it the literal contents of a certificate file?	Scenario: • 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 References: • ⛔ **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	• /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	• Centralized Representation and Consistent Identification of Cloud Regions In ONAP • Consistent ID of a Cloud Region (Dublin)
9	MultiCloud	OOF	• 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	Scenario • 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 References • HPA - SR-IOV NIC design
10	Policy	SO	• Scaling Use Case (Dublin) • Dummy Incremental VF_Module	Scenario: • 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? References: • https://lists.onap.org/g/onap-usecasesub/topic/scaling_scaling_automation/29434667 > *[Scaling] Scaling Automation Requirements* > *From: Scott Blandford* > *Date: Wed, 23 Jan 2019 16:52:31 UTC* > > *Scaling Team,* > > *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.* > > *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.*
11	External PNF manager?	DCAE / CLAMP / SO	• BBS Broadband Service Use Case (Dublin) • Nomadic ONT scenario	Scenario: • 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 References: • https://groups.io/g/onap-bbs/topic/29523804

12	SO	MultiCloud	Workload update (heatbridge)	Scenario:

Row 12:

12	SO	MultiCloud	Workload update (heatbridge)	**Scenario:** • 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?) **References:** • Proposal for generic AAI Workload Update (aka heatbridge) • SO to Multicloud API enhancements
13	DCAE	SDNC ExtAPI	BBS use case: https://groups.io/g/onap-bbs/topic/31027823 Using service-instance ID to retrieve customer ID. Updating service-instance status after receiving DCAE event.	• DCAE_CL_OUT event contains AAI data as a field

For row 13, the right column contains:

• DCAE_CL_OUT event contains AAI data as a field

```
"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\"
    },
```

• the value of "service-information.hsia-cfs-service-instance-id" can be queried in AAI using a Nodes query:

```
GET
https://aai.api.simpledemo.openecomp.org:30233/aai/v14/nodes
/service-instances/service-instance/03b92492-c5c0-487a-b414-
d5427ab6f041?format=resource_and_url
```

with the output results containing both a url and the service-instance resource object:

```
{
    "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",
...
        }
    }
  ]
}
```

• 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 | | |