# 2019-01-17 AAI Developers Meeting

## Attachments (including meeting recording)

File	Modified
Multimedia File zoom_0.mp4	Feb 06, 2019 by James Forsyth

#### **Chat Server**

private group aai-dev on Rocketchat server: http://onap-integration.eastus.cloudapp.azure.com:3000/group/aai-dev

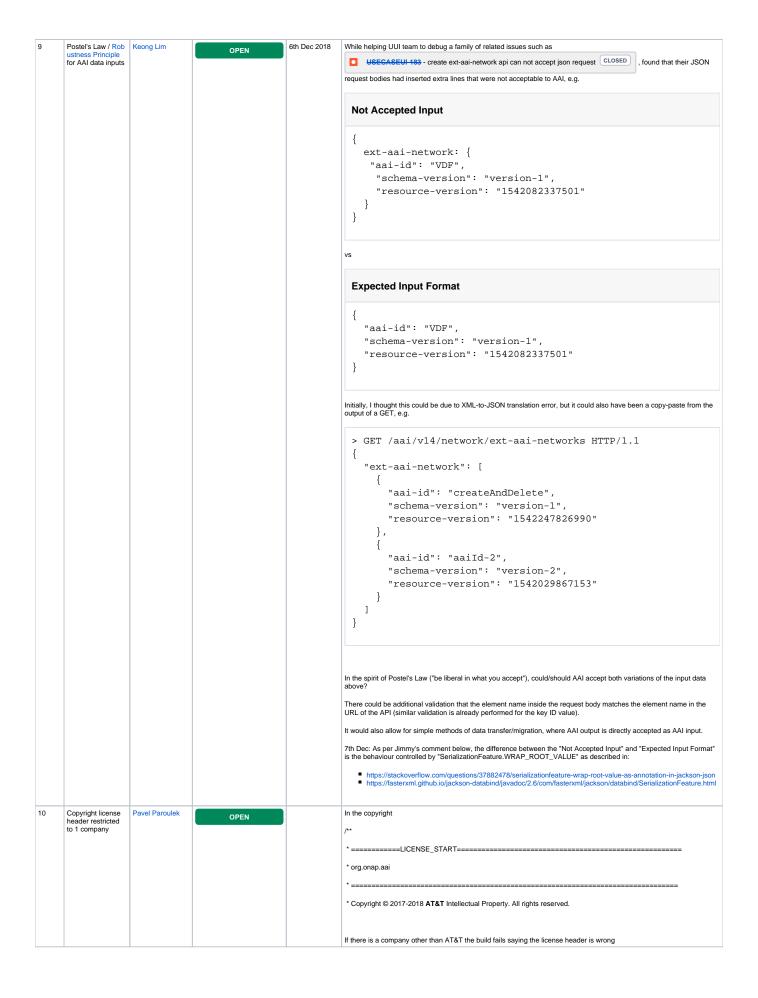
### Agenda Items

#### START RECORDING

	Title	Responsible	Status	Last discussed	Notes
1	New AAF Certificates at startup	Jimmy Forsyth	IN PROGRESS	17th Jan 2019	AAF will generate certificates to the be used by the containers at startup; AAI services should use the run-time generated certs instead of the ones that are in the repos or oom charts.
					In dublin the services will mount a volume with certificates. This is on the roapdmap for Dublin as a feature.
2	AAI Backup and Restore	Keong Lim	ON HOLD	10th Jan 2019	Brian Freeman asked on Re: Backup and Restore Solution: ONAP-OOM:
					what would be the approach to backup an entire ONAP instance particualarly SDC, AAI, SDNC data? would it be a script with all the references to the helm deploy releases or something that does a helm list and then for each entry does the ark backup?
					What is the AAI strategy for backup and restore?
					What is the overall ONAP strategy for backup and restore?
					Should it be unified with the data migration strategy as per "Hbase to Cassandra migration" on 2018-11-14 AAI Meeting Notes?
					James Forsythwill raise the topic of having backups and restore functionality in ONAP - if it is feasible, on the roadmap and what others PTL think
					Jimmy didn't directly raise the topic but there was movement - Keong Lim asked "if istio service mesh is a no-go, is there a replacement for secure onap communications?is backup/restore/upgradability included in s3p?"
					Michael O'Brien replied that a reference tool set for backup and restore was introduced in Casablanca: Backup and Restore Solution: ONAP-OOM
					Mike Elliott said he would look at Brian's question, AAI will provide support as needed.
3	Dublin use-cases	Chandra Cinthala	IN PROGRESS	10th Jan 2019	5G Use Case (Dublin)
					BBS Broadband Service Use Case (Dublin)
					CCVPN Use Case (Dublin)
					Change Management Dublin Extensions
					Edge Automation Functional Requirements for Dublin
					OpenSource Access Manager (OSAM) Use Case
					K8S based Cloud Region Support
					Chandra Cinthala will go over all these use cases and will write a 1 page report per use-case where he lays out the impact and needed high-level description of changes in order to support the use-cases in A&AI. He will send this reports to James Forsyth so he can plan accordingly. The 1 pagers should be discussed with the modelling comitee before sending them to James Forsyth. Chandra Cinthala should start here <a href="https://wiki.onap.org/display/DW/Joining+the+ONAP+Technical+Community">https://wiki.onap.org/display/DW/Joining+the+ONAP+Technical+Community</a> when integrating to the ONAP community and the mailing list <a href="https://wists.onap.org/g/main">https://wists.onap.org/g/main</a> . The deadline for Chandra Cinthala to send the reports to James Forsyth is 15 Jan 2019
					The Dublin use-cases for review are Release 4 (Dublin) Use Cases and functional requirements
					On AAI weekly call on Wednesday Chandra Cinthala will report on his progress in analyzing the use-cases.

4	OOVEN Fortunation	Desirate Observation		00th D 0040	During the VEOT and have accounted the COVIDALITY Construction for Dublin Delega-
4	CCVPN Extension Dublin	Davide Cherubini	IN PROGRESS	20th Dec 2018	During the VF2F we have presented the CCVPN Use Case extension for Dublin Release.
		Susana Sabater			In particular, we have defined the E-LAN Service (EP-LAN. EVP-LAN) sub-Use Case. More details can be found at this p age (the presentation given to the Use Case SubCommittee and during the VF2F can also be found in that page).
		emmanuel sarris			
		Christopher Sheng			We have also created 2 additional pages where we describe the:
		Tony Noori			Implementation Options     Initial Impact assessment
					In the former page, we have identified Option 2 (for Service Creation) and Option A (for Service Modification) as the "ideal" implementation. The Impacts in the latter page are based on such an assumption.
					We would be grateful if you could help us with the assessment for A&AI and if you could confirm the project commitment to CCVPN.
					14th Dec: Regarding the Options and Impact assessment linked above:
					AAI
					Support Composite Service Instances (multi-operator)
					As far as I know, the ServiceComposite pattern hasn't even exited the Modelling team's discussions for R3 or R4 workshops Hui Deng:
					Composite vs Recursive Discussion Page     Composite Pattern UML diagram
					This would seem like a stretch goal given the impacts on all the downstream clients of AAI, if it would require reworking any existing schema elements.
					However, if you are looking for a zero-impact method of implementation, the EdgeRules already contain service-instance-to-service-instance relationship with label "org.onap.relationships.inventory.ComposedOf", so AAI can do the composite data with this relationship.
					James Forsythwill send a reminder e-mail to Tony and Christopher to engage them on this task, the plan is to discuss this issues and modeling in general in the first 2 weeks in January
					Update 3rd January 2019 from CFL comment:
					LIN MENG
					Hil think there might be some confusions in CCVPN use case and the current service IM in the sheet.
					I don't think CCVPN has extension demands for A&AI in Dublin release.
					What we want to do in D release is to provide a CCVPN service by using one service template to includes the SOTN and SD-WAN resources, which will be a requirement for SDC and modeling DM (In C release, we have to design each resource as a service based on SDC's ability)
					We've actually talked about composite pattern at the beginning of R3 and the modeling team accepts this idea but have no implementation in this concepts.
					Also, I think the composite pattern is the same as nested service from service IM perspective. And I think it would be better if we unify them as one concept in ONAP for less confusion, which I will propose to next week's service IM call. Back to the point, we're in redesigning the new service IM of CCVPN and currently, CCVPN doesn't have this need.
					Pavel Paroulek James Forsyth Hui Deng Davide Cherubini jianguo zeng Chuanyu Chen
5	AAI behaviour in	Keong Lim	OPEN		Just raised
	error conditions	song Eili	OPEN		AAI 2082 - aai-resources gives incorrect output when aai-cassandra has shutdown with failure CLOSED ,
					apart from getting a fix, if possible, may need some help with recovery actions.
					Moved from AAI Weekly Status Meeting.

Count Native Designment (search for LOC 378 to find the specific references to AV)   Regular of the Private LOC 378 for Counter Comment (along an Encounter and AV)   Regular of the Private LOC 378 for Counter Comment (along an Encounter and AV)   Regular of the Private LOC 378 for Counter Counter (along an Encounter and AV)   Regular of the Counter Counter (along an Encounter and AV)   Regular of the Counter (along an Encounter and AV)   Regular of	6	aai-cassandra performance	Keong Lim	ON HOLD	10th Jan 2019	Michael O'Brien has documented performance issues in aai-cassandra:
If come to the next AAI meat (corflicts with pomba med) .  ■ L06-376 - Logistash full saturation of 8 cores with AAI deployed on one of the quad 8 vCore vms for 30 logs / Aarc - up replicated in 10 are use Deermonties (CoRED)  ■ 20190108 work continues to find the cause - 1 see * VCOre spikes on cassandra as well as a saturated logistash on the practicular vm - war are olloger a Deermonties (13 instances on at 13+1 classer) - I will enduce the current ReplicaSet Agrahaman mentioned classandra - I have seen as high on several "hot" sessions - will post screen caps - bottom line is correlation. I have a 2nd outset when I can just run aud,dhape and log.  LOG Meeting Minutes 2019-01-15  ■ LOG-915 - Reduces Logistash core limit to 1 from 3 until LOG-LS and AAI-CS pert issue on the same VM is determined. OPEN  — whether Mariak Keyn will inform Michael about the scheme performance fix - the should test with the casabitance mentionance reflexes.  On-hold of 7 weeks (and of all injurys) - if until then no performance issues reported agends item will be closed  Mike Elliost wrote in OOM Meeting Notes - 2018-12-5  ( And issue wanted to get notified of AAI Casandra issues automatically  **Core was led as a factor of the caps and the spike and the applications for correlated its produce the spike and the applications for correlated its produced its seeks automatically  **Even if (1) is true, AAI issue meaning of electrical system conflictates. (LOSED):  **In Main issue was the produce of the seeks of the field collection of PEMs of the CA not URL)  **Outsitions:**  1. In AAI issue meaning of the field for collection and what corrections are in the values?  2. Or force and a large year related to storely prescribe how the fields are used and what corrections are in the values?  2. Or force and a large year and the needs to correct the engine position to be entire to store and meeting of the field (pulses on desired) and what contents are in the values?  2. Or force and all may be a content the original position to be entire		issues				https://jira.onap.org/browse/LOG-376?focusedCommentId=29358&page=com.atlassian.jira.plugin.system.issuetabpanels:comment-tabpanel#comment-29358 hector has discovered that the stress test jar (liveness probe?) in aai-cassandra is hammering the cpu/ram/hd on the vm that aai is on - this breaks the etcd cluster (not the
Asset - up replicased 1 to 3 or use DaemonSet						
The pational rivin wheat are to largest a blaefinched to a relation control of the pational rivin wheat are to largest a blaefinched to a relation control of the pational rivin wheat are to a place a blaefinched to a relation to the pational rivin wheat a control of the pational rivin wheat are to any pation of the pational rivin wheat are to any pation of the pational rivin wheat and place to pation the pational rivin wheat are to any pation of the pational rivin wheat are to any pation of the pational rivin wheat are to any pational rivin wheat and the pational rivin wheat are to a pation of the pational rivin wheat are to a pational rivin wheat and the pational rivin wheat are to a pational rivin wheat and the pational rivin wheat are to a pational rivin wheat are to pational rivin wheat are to pational rivin wheat are to a pational rivin wheat are to pational riving riving wheat are to pational riving riving wheat are to pational riving riving and the applications for introduction of the state of the state of the state and the applications for the case of the state and the advance consumers of the data to document their mended meanings.  How do we push to have documentation on the purpose and meaning of the fields in AAI?  Where does all this documentation						
Continued   Cont						that particular vm - we are no longer a DaemonSet (13 instances on a 13+1 cluster) - I will reduce the current KeplicaSet from 5 to 2 or 1 until I can label the nodes and/or find out what is causing Is to saturate - Prudence Au and Sanjay Agraharam mentioned cassandra - I have seen cs high on several "top" sessions - will post screen caps - bottom line is
ask Michael O'Brien about performance problems - if they persist and what the problem exactly is.    werkata Harish Kajur will inform Michael about the schema performance fix - he should test with the casablanca materianance refease.   On-hold for 3 weeks editional for a week in O'M Meeting Motes - 2018-12-5   All team wanted to get notified of AAI Casandra issues propriet agents item will be closed						LOG Meeting Minutes 2019-01-15
Venkata Harish Kajur will inform Michael about the schema performance fix - he should test with the casablanca maintenance release.   On-hold for 3 weeks (end of January) - if until then no performance issues reported agenda item will be closed						
To get notified of AAI Casandra issues automatically    Casandra issues automatically						ask Michael O'Brien about performance problems - if they persist and what the problem exactly is.
Mike Elliott wrote in OOM Meeting Notes - 2018-12-5    AAI team wanted to get notified of AAI Casandra issues automatically   I. Can we setup a Nagios or equivalent to monitor both rancher/k8 and the applications for rancher/k8 issues?    Keeng Lim						
Casandra issues automatically  I. Can we setup a Negios or equivalent to monitor both rancher/k8 and the applications for rancher/k8 issues?  Keep an eye out for new issues!  Dénes Németh wrote in  In think it would be good to answer what is the meaning of the field (collection of PEMs of the CA xor URL)  Questions:  1. Is AAI intended to strictly prescribe how the fields are used and what contents are in the values?  2. Or does AAI simply reflect the wishes of all the client projects that use it to store and retrieve data?  Even if (1) is true, AAI is not really in any position to enforce how clients use the data, so really (2) is always true and we need to consult the original producers of the data and the ultimate consumers of the data to document their intended meanings.  How do we push to have documentation on the purpose and meaning of the fields in AAI?  Where does all this documentation be backed up by validation code?						
Purpose of fields in AAI  Dénes Németh wrote in  In think it would be good to answer what is the meaning of the field (collection of PEMs of the CA xor URL)  Questions:  1. Is AAI intended to strictly prescribe how the fields are used and what contents are in the values? 2. Or does AAI simply reflect the wishes of all the client projects that use it to store and retrieve data?  Even if (1) is true, AAI is not really in any position to enforce how clients use the data, so really (2) is always true and we need to consult the original producers of the data and the ultimate consumers of the data to document their intended meanings.  How do we push to have documentation on the purpose and meaning of the fields in AAI?  Where does all this documentation be backed up by validation code?	7	Casandra issues	Keong Lim	OPEN		f. AAI team wanted to get notified of AAI Casandra issues automatically i. Can we setup a Nagios or equivalent to monitor both rancher/k8 and the
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See also discussion about AAI in 2018-11-28 ExtAPI Meeting notes						See also discussion about AAI in 2018-11-28 ExtAPI Meeting notes
29th Nov: Started on new wiki page AAI Schema Producer-Consumer Pairings						29th Nov: Started on new wiki page AAI Schema Producer-Consumer Pairings



11	Return codes and messages for WS	Pavel Paroulek	OPEN	Is there a guide for the description of the error message and the error codes? How are new error states (message + code) added?
12	OOM Artifacts	Pavel Paroulek	OPEN	Some of our top level OOM deployment artifacts are not unique (i.e. don't take namespace into account as all other deployables), is that intentional?
13	AAI test data bootstrap	Keong Lim	OPEN	Looking at AAI usage in OOF - HPA guide for integration testing by Dileep Ranganathan, wondering whether there is a better way to bootstrap AAI test data?
				Generating AAI data
				<b>Note:</b> Required only if the Multicloud has no real cloud-regions and HPA discovery cannot happen.
				If Multicloud team has data for creating the Cloud-region and doesn't have the HPA, then please update the existing data with the flavors with HPA.
				Import the postman collection CASABLANCA_AAI_postman.json     To add/remove HPA Capabilities edit the flavors section in the body of PUT Cloud-Region(x)
				3. Once all the necessary Use postman to add the complex and cloud regions in the order specified below (snip screenshot of specific sequence) 4. Use the GET requests to verify the data. (snip screenshot of specific sequence)
				Similarly, Scott Seabolt and J Armstrong / Joss Armstrong wrote for APPC Sample A&Al Data Setup for vLB/vDNS for APPC Consumption and Script to load vLB into AAl:
				The below put_vLB.sh script can be used to submit the vLB data to A&AI in order to run ConfigScaleOut use case. This script and referenced JSON files are used on an AAI instance where the cloud-region and tenant are already defined.
				Similarly:
				■ TEST 433 - Demo.sh init step is not adding availability-zone information in AAI CLOSED
				INT 705 - Add availability zone call to AAI in Robot framework  CLOSED  VCPE Use Case Tutorial: Design and Deploy based on ONAP
				Related AAI 1948 - Correct broken links CLOSED on the brittleness of the ReadTheDocs links to data files.
				One for VIM: How-To: Register a VIM/Cloud Instance to ONAP and
				AAI-1928 - AAI-Internal server Error:500 CLOSED
				Potential issues:
				<ul> <li>fragility of static import data file w.r.t. schema changes and version upgrades for each ONAP release?</li> <li>how "common" is this knowledge, i.e. what to load, where to get it, who eshould be using it, etc?</li> <li>should it be automated/scripted, rather than manual steps to bootstrap?</li> <li>should it be a simulator program or test harness, rather than a static data file?</li> <li>should it reside within AAI CI/CD jobs for maintenance and upgrade of schema versions?</li> <li>who maintains the data itself? Is there a "data repository" which can be delegated to other teams, e.g. like documentation repository links in git?</li> <li>how many other teams have similar private stashes of AAI bootstrap data?</li> <li>does it need to be published at a stable URL to avoid linkrot?</li> </ul>
4	AAI too slow for OOF/HAS	Keong Lim	OPEN	Under OOF Homing and Allocation Service (HAS) section, Dileep Ranganathan wrote about Project Specific enhancements:
				Optimize - AAI cache  Use MUSIC or any other alternative in memory caching like Redis etc? Optimize flavor retrieval from A&AI and Cache the information if necessary
				See also OPTERA 268 - OOF - project specific enhancements CLOSED /  OPTERA 291 - Optimize the use of AAI cache in HAS Data component CLOSED
				Similarly to the "AAI too slow for Holmes" item below, this introduction of extra caching of AAI data is a worrisome development and sad indictment of the performance of the system architecture.
				What can we do about this?
				Would the AAI Cacher AAI Cacher CLOSED help to improve performance?

15	MultiCloud usage	Keong Lim	OPEN	Bin Yang and Lianhao Lu wrote in
	of AAI for HPA telemetry/time- series data to OOF			MULTICLOUD 274 - HPA telemetry data collection and persistence CLOSED :
				HPA telemetry data collection and make it persistent in A&AI, from which OOF can leverage during its decision making process.
				and
				Multi-cloud to collect the data from time-series data services like Prometheus (http://prometheus.io) or openstack Gnocchi, and push them to A&AI based on the data recording & aggregation rules.
				and
				The reason why we propose here is that VES mechanism doesn't store the telemetry data into A&AI. And OOF now can only get those kind of data from A&AI.
				Some concerns:
				<ul> <li>how much additional load will this place on AAI?</li> <li>will AAI cope with this load?</li> <li>is AAI suitable for "time-series data"?</li> <li>is "telemetry data" considered to be "active &amp; available inventory"?</li> <li>should OOF access the telemetry/time-series data via other means (not AAI)?</li> <li>AAI API latency (4-6 second per request as benchmarked in CMCC lab) could be a problem</li> </ul>
16	AAI-BBS for Dublin	Keong Lim	OPEN	Started collating proposed changes in wiki AAI-BBS Proposals for Dublin Release
				Investigating code proposal 1:
				In AAI, when the "orchestration-status", "service-instance-location-id", "input-params" for a Service Instance changes, notify ExtAPI so it does not need to poll AAI
				Is it already covered by spike? If so, how to consume the events? If not, how to make AAI publish new events to DMaaP?

17	Orchestration Scenarios for	Keong Lim	OPEN		Comments on Orchestration Scenarios related to AAI:
	VNFs				Viswanath Kumar Skand Priya / Viswanath KSP said:
					Thank you Ranny Haiby & Fernando Oliveira . I agree partly, but I still have following queries.
					• I agree & acknowledge that atleast for a foreseeable future, we would need a way to specify the VNFM / NFVO as part of "Design Decision", which I believe can be reflected as part of VNFD/NSD ( using some special attribute) or as part of internal Model that SDC might build before distributing the same. SO can then use this hint to select relevant actors. My only question is, why this has to be maintained in AAI which is exclusively for runtime record? All AAI cares about is what is running in the network irrespective of how that got orchestrated. Isn't it?
					On a broader note, I would like to understand what's the original intent of AAI ( atleast in ECOMP world )? Are we simply assuming that, just because AAI has "available inventory" in its name, we are expecting it to keep track of cloud inventory realtime? Because our entire story ( including the new G-FPS proposal ) is based on this assumption. Can anyone from AAI team or ATT clarify on this?
					Because AFAIK, AAI neither has the schema to host such available inventory, nor the MC has the pub/sub or polling mechanism (today) to refresh the cloud inventory inplace. Ofcourse those can be scoped for further releases, but my original question is, was that the original intent behind AAI or are we now including it in the scope?
					and Fernando Oliveira replied:
					For the first question: I think that A&AI needs to maintain the VNF instance VNFM instance and the NS instance NFVO instance relationship for subsequent life cycle operations, i.e. a scale or heal operation. The path would be something like Event (VNF Instance, Busy) DCAE (policy for VNF instance) Policy Evaluation (VNF instance, Scale-out) SO (VNF instance, Scale-out) A&AI (find VNFM instance for the VNF instance) SO (VNF instance, VNFM instance, Scale-out) SOL003 Adapter (VNFM instance, VNF instance, Scale-out).
					As I understand, ESR has "esr-vnfm-list", which has an "esr-vnfm", which has "esr-system-info-list", which has "esr-system-info", which has a "relationship-list" that can contain relationships to "generic-vnf" and other AAI objects.
					The "generic-vnf" object also contains "self-link", "ipv4OamAddress", "ipv4OamGatewayAddress", etc, which links the AAI object back to its "source-of-truth" external-system.
					Is there some new data, new schema or new API that is required on top of this?  Fernando Oliveira; Apologies for my lack of knowledge, but a few comments:
					1. For the VNF/VF VNFM case, I think that there needs to be a reference from a VNF/VF instance record to the specific instance of the VNFM that was used to deploy the VNF/VF. If there is already such a reference from the VNF/VF through the ESR to the specific item on the esr-vnfm-list, then I think that would be sufficient. If not, I think that would be a new requirement.  2. For the Service NFVO case, Is there an equivalent NFVO/Orchestrator list in the ESR? The esr-nfvo-list would need the same set of info as the VNFM case. If the esr-nfvo-list does exist, I think that there needs to be a reference from the Service Instance record to the specific NFVO instance that deployed the Service. Is there such a reference? If not, I think that would be a new requirement.
					Bo Lv can comment more on the current ESR capabilities, but I believe there are only 3 kinds of systems so far: EMS, VNFM and third-party SDNC.
					ESR could be extended to handle VNFO as another kind of system.
					Fernando Oliveira : I created JIRA stories:  PED.122 - ONAP tracking of available external (FTSI compliant NFVO) orchestrators.
					REQ.122 - ONAP tracking of available external (ETSI compliant NFVO) orchestrators  PONE  REQ.123 - ONAP tracking of Service dependency on an external orchestrator
					ONAPARC 399 - ONAP tracking of VNF dependency on an external ETSI compliant VNF Manager
					(VNFM) CLOSED
18	Modeling team R4	Keong Lim	IN PROGRESS	15th Nov 2018	for various parts of the scenario.  Modelling team having Service Instance thoughts by Chesla Wechsler, which will affect AAI schema.
	discussion, including extra AAI attributes in a model-driven way				Also referred from comments on ONAP R4+ Service Modeling Discussion Calls
					9)"vhn-portal-url"?"Bandwidth", "QoS", "SLA", etc, attribtutes that not all the services need but still need to be stored in certain service instance: stored as a schemaless field on the service-instance vertex (Chesla will follow up) (my concerns: according to the call, is that ok if we set a "global-type of service" and a "customized-type of service", then mapped it with internal descriptor, and A&Al's model only stores global type in service instance's schema, but stores the customer-faced attributes of service in a schemaless way? Chesla Wechsler Kevin Scaggs Andy Mayer)
					See also Modeling 2018-11-13
					The service-instance already uses a "metadata" relationship, which can store an arbitrary list of key-value pairs, but perhaps AAI should extend the use of the "properties" element, which is also an arbitrary list of name-value pairs or the "extra-properties" element, which is also an arbitrary list of name-value pairs.
					15th Nov: Having seen Chesla's presentation, it should be called "Model-driven schema" rather than "schemaless" behaviour, since the idea is that the changes are controlled by SDC modelling. Seems aligned to the eventual goal in AAI Schema Service Use Case Proposals and AAI Schema Service.

19	AAI too slow for Holmes	Keong Lim	IN PROGRESS	1st Nov 2018	Guangrong Fu mentioned AAI in Baseline Measurements based on Testing Results:
		CT Paterson			
					Cache the AAI data and refresh them periodically so that Holmes won't have to make an HTTP call to AAI every time it tries to correlate one alarm to another.
					The problem for caching is how to know when to update the cached data. Even though the access time may be fast for Holmes, the risk is using out-of-date data, so the correlations will be wrong anyway. Also, duplicating the AAI data outside of AAI is probably a bad architectural decision. Making AAI faster for these use cases would be better.  Has there been a performance analysis of where the time is spent? Could it help to use ElasticSearch (e.g. as in sparky)? Should Holmes have a batch interface to get more AAI data in fewer calls? Or a better correlation API that
					results in fewer calls?  31st Oct: https://lists.onap.org/g/onap-discuss/topic/27805753
					1st Nov:
					Guangrong Fu will try custom queries for queries that took to long to return The hardware (mainly storage) influences the query speed - need to find out what hardware was the speed test conducted on (Guangrong Fu will provide HW specs)  HOLMES 186 - Improve the performance on AAI queries.  OPEN
					Would the AAI Cacher AAI 1337 - AAI Cacher CLOSED help to improve performance?
20	2 Types of logging	Pavel Paroulek	ON HOLD	1st Nov 2018	There are 2 types of logging in the services
	in Á&AI WS		ON HOLD		one read from EELFManager     the other Logger log = Logger.getLogger(
					Is that correct? Shouldn't there be just 1 type?
					1st Nov:
					After Casablanca release investigate logging guidelines and figure out what library to use in order to unify logging within A&AI
					26th Nov: See also ONAP Application Logging Specification - Post Dublin
					29th Nov: how does this fit with
					LOG 877 - S3P: Logging streaming/format alignment for dublin - China Telecom, Deutsche Telekom, Vodafone CLOSED
21	Disable unused web services	Pavel Paroulek	IN PROGRESS	20th Dec 2018	?  Could we disable unused (i.e. not integrated) A&AI web services, so that the deployment is faster and the resource footprint is smaller? e.g. Champ (any other ws?)
	(see also Helm chart requested				Motivation: Decrease the resource footprint for A&AI (ONAP) deployments
	values)				Idea: we could support 2 different deployments 1. full (normal) deployment and 2. barebones deployment. The point of the "barebone" deployment would be to deploy only the essential services necessary for proper functioning of A&AI (leaving out services like cacher, sparky, graphadmin, having 1 cassandra node instead of 3 or 5 etc).
					In order to reduce hardware/cloud costs (mainly the memory footprint) it could be beneficial to support a minimalistic A&AI deployment.
					1st Nov:
					Venkata Harish Kajur and Pavel Paroulek - investigate how to disable/enable charts in A&AI so we can create a core group of pods which handle the use-cases and than extended group will all the services. Consider a group of unused /unintegrated services (like Champ). Consider other possible groups (like GUI?)
					James Forsythcreates a JIRA ticket to define the list of AAL subprojects and create the categories (essential, full "experience") for the OOM deployment  AAI 2025 - Classify aai docker images  CLOSED
22	AAI Champ	Pavel Paroulek	IN PROGRESS	1st Nov 2018	1. Who is responsible for the project? 2. What is the roadmap for the project? 3. Who will do the integration?
23	Dublin 5G Use	Benjamin Cheung	DONE	17th Jan 2019	Dublin AAI changes in support of 5g use cases.
	Case				Link for presentation: 5G - PNF Plug and Play (Casablanca carry-over items)
					1. NF A&AI: S/W Image Repository Info 2. NF A&AI: Cloud Home Info 3. NF A&AI: External Manager IP Address 4. NF A&AI: S/W Version Object Association
					this is covered elsewhere

24	AAI Tutorial	Keong Lim	DONE	17th Jan 2019	Following updates for AAI Developer Environment Setup - Casablanca need to update the link in step 14:
	updates		DONE		Tutorial: Making and Testing a Schema Change in A&AI
					■ Need separate pages for Beijing, Casablanca, Dublin, etc.
					AAI 1973 - Schema update wiki is out of date of Casablanca CLOSED
					Harish will update the documentation - the section Tutorial: Making and Testing a Schema Change in A&AI
					Need to distinguish on the wiki tutorials for:
					running A&Al (just installing for non-devs)
					setting up a dev environment to develop AAI ("Developer Onboarding" section on wiki)
					James Forsyth will check if we still need to support HEAT deployment for Dublin
					James Forsyth will create a JIRA task for documenting the process of testing schema changes using OOM (instead of HEAT) 31 Jan 2019
25	AAI HAProxy and 2-way-TLS	Pavel Paroulek	IN PROGRESS	29th Nov	Technical solution to either decommission the proxy or make design changes to AAF to enable client side certificates.
	2-way-1L3				After VF2F we will know if this is a requirement in Dublin. We discuss after this date.
					question raised: MSB - would client authentication be supported?
					15th Dec: https://wiki.onap.org/display/DW/Pluggable+Security#PluggableSecurity-7.10   Identifiedandsupportedpatternsandfeatures
					James Forsythcreates a task for encryption of communication between A&AI services and Cassandra 24 Jan 2019
					Tian Lee and Steven Blimkie to report on the Amdocs managed A&Al microservice wheter they support criteria from the Dublin S3P requirements 31 Jan 2019
26	AAF Resiliency	Keong Lim	DONE	17th Jan 2019	Yang Xu wrote in AAF Component:
					Issues and Workaround
					If AAF stops working, e.g. AAI returns authorization error, bounce AAF aaf-locate and
					aaf-service containers.
					This looks like some problem for resiliency and healthchecks. Is there a JIRA case for this already? An earlier case mentioned the "fix" in passing
					AAI-1762 - [aai-traversal] Fails to authorize user with java.lang.lllegalStateException CLOSED . Also in
					AAL 1772 - ModelLoader fails to store model during model distribution CLOSED
					Helen Chen, is there a scenario for this in Casablanca Release Resiliency Testing Status?
					Jonathan Gathman, Mike Elliott, how can this remedy be automated?
					See also AAF 599 - Users of the CADI library should be able to detect AAF service down CLOSED
					James Forsyth will ask Jonathan Gathman about this item.
					Conclusion: Jonathan will improve the stability of his service.
27	named-query replacements	James Forsyth	IN PROGRESS	17th Jan 2019	AAI-1989 - AAI Named Query Deprecation OPEN
					APPC 1245 - AAI named-queries are being deprecated and should be replaced with custom-queries CLOSED
					POLICY-1278 - AAI named-queries are being deprecated and should be replaced with custom-queries  CLOSED
					WID 355 - AAI named-queries are being deprecated and should be replaced with custom-queries OPEN
					Need to replace custom queries currently in use by these systems (and others?) in Dublin toward the retirement of the named-query API in Dublin
					Coordination with the ROBOT team needed for data population     Coordinate with each team (POLICY, VID) to have the specific data for each named-query
					Christopher Shang is leading the effort to deprecate named queries in e-Comp.
					Next steps: get data from teams in order to prepare for testing the change from named queries to custom queries.
					✓ Keong Limwill ask the teams about the data mentioned above.
					James Forsyth will remind Christopher to create a LF account 24 Jan 2019

28	Helm chart 'requested' values for Small + Large AAI deployments	James Forsyth	DONE	17th Jan 2019	AAI-1940 - Correct resources requirements in Helm Charts CLOSED  James Forsyth will apply the changes he outlined in AAI-1940
29	Answering wiki questions	Team	DONE	17th Jan 2019	Recently saw a few unanswered AAI questions in https://wiki.onap.org/display/DW/questions/all?&filter=recent  Probably need a regular reminder to monitor this corner of the wiki to be responsive to users.  Pavel: Or maybe something like an A&AI mailing list? (just brainstorming here)  Conclusion: we can close this
30	Janus Graph 0.2.2 or 0.3.1	James Forsyth	DONE	17th Jan 2019	Discuss a move to janusgraph 0.2.2 or 0.3.1 in Dublin.  Benefits?  Breaking change + migration needed?  Analysis needed on benefits of 0.3.1 until 10th Jan 2019 (decision should be made on the meeting on 10th).  If no significant benefit in 0.3.X present and migration would be needed then upgrade only within 0.2.X version (assuming upgrading within 0.2.X is not a breaking change)  Conclusion: We will update to 0.2.2 and try it as a drop-in replacement. Testing should be done in a special environment with existing data - maybe the Windriver A&AI env with data.  James Forsyth creates a JIRA task for the JanusGraph update 24 Jan 2019
31	Spring Boot Upgrade	James Forsyth	IN PROGRESS	17th Jan 2019	https://spring.io/blog/2018/11/29/spring-boot-1-5-18-available-now - support for 1.5.x spring boot will end in Aug 2019 so we should consider upgrading.  We should update to spring 2.X.X.  On the meeting on the 10th Jan discuss if anyone has anything against it, if not then James Forsyth creates a JIRA item for Dublin for upgrading the spring in all A&AI repositories.  Conclusion:  Venkata Harish Kajurwill check with Manisha Aggarwal if the update to 2XX version of spring boot will happen in Dublin 24 Jan 2019