

AAI R2 M1 Release Planning

DRAFT PROPOSAL FOR COMMENTS

The content of this template is expected to be fill out for M1 Release Planning Milestone.

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Overview

Project Name	Enter the name of the project
Target Release Name	Beijing
Project Lifecycle State	Incubation. Refer to ONAP Charter, section 3.3 Project Lifecycle for further information
Participating Company	AT&T, Amdocs, ZTE, Orange, Tech Mahindra

Scope

What is this release trying to address?

The scope of the Beijing Release of AAI will address [CII Badging Security Program](#) and [Platform Maturity Requirements](#), as well the approved [Release 2 Use Cases](#)

Highest priority will be assigned to support security and platform maturity requirements. As next highest priority, AAI will support the approved use cases. Best-effort additional development will continue to support additional features not included in the approved use cases.

Use Cases

AAI will support to the best of its ability the [Release 2 Use Cases](#)

Minimum Viable Product

- A&AI Core: Resources - CRUD REST API endpoints for A&AI inventory resources
- A&AI Core: Traversal - REST APIs for graph traversals. Some APIs use the Gremlin Server
- UI - An ONAP portal application used by operations for visualizing and searching

- Data Router: Makes decisions about workloads to be dispatched to search and tabular microservices. Includes logic to recognize and direct requests based on request archetypes.
- Search - Enable complex searches for sub graphs and functions that need to perform well across deeply nested structures using Elasticsearch. Used by the UI
- Champ - Abstraction from underlying graph storage systems that A&AI would interface with.
- Gizmo - CRUD Rest API endpoint for resources and relationships, delivering atomic interactions with the graph for improved scalability.
- ESR - External System Registry component
- **Stretch goal for Beijing:**
- IM - Image Manager. CRUD of image files/metadata.

Functionalities

List the functionalities that this release is committing to deliver by providing a link to JIRA Epics and Stories. In the JIRA Priority field, specify the priority (either High, Medium, Low). The priority will be used in case de-scoping is required. Don't assign High priority to all functionalities.

Epics

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
AAI-1478	Scale Out Use Case Support in AAI - R3		Aug 14, 2018	Jul 10, 2019		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-769	Required updates to the v13 REST API		Feb 12, 2018	May 15, 2018		Venkata Harish Kajur	James Forsyth	==	CLOSED	Done
AAI-682	Scale Out Use Case Support in AAI		Jan 19, 2018	Jul 10, 2019		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-681	Change Management Use Case Support in AAI		Jan 19, 2018	Mar 21, 2018		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-680	HPA Use Case Support in AAI		Jan 19, 2018	May 15, 2018		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-466	Beijing R2 AAI Schema Updates		Nov 15, 2017	Mar 30, 2018		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-280	This epic groups together the various requests for making AAI more configurable		Sep 08, 2017	May 15, 2018		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-38	AAI Microservice to generate AAI model XML		Jul 06, 2017	Oct 24, 2018		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-24	Move to Active Open Source Graph Database		Jun 29, 2017	Jul 10, 2019		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-23	Amsterdam Use Case Support in Model Loader		Jun 29, 2017	Apr 17, 2018		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-21	Gizmo		Jun 29, 2017	Apr 11, 2019		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-17	Seed code stabilization		Jun 29, 2017	Mar 21, 2018		James Forsyth	James Forsyth	==	CLOSED	Done
AAI-16	A&AI Platform Deployment		Jun 29, 2017	May 15, 2018		James Forsyth	James Forsyth	==	CLOSED	Done

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Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
AAI-1050	RC1: Release AAI artifacts		Apr 17, 2018	Jul 10, 2019		James Forsyth	James Forsyth	<	CLOSED	Done
AAI-943	Publish Babel Updates to ONAP		Mar 26, 2018	Apr 06, 2018		Mark Leonard	Gabriel Sanchez	==	CLOSED	Done

AAI-940	Upgrade the oparent version in ESR		Mar 26, 2018	Mar 29, 2018	Li Zi	Li Zi	=	CLOSED	Done
AAI-939	Enable AAI release job for aai repos in jenkins		Mar 25, 2018	Mar 28, 2018	James Forsyth	James Forsyth	=	CLOSED	Done
AAI-936	Update Babel test-config and OOM		Mar 23, 2018	Apr 18, 2018	Edwin Lawrance	Gabriel Sanchez	>	CLOSED	Done
AAI-920	Update licence to 2018 in Babel		Mar 22, 2018	Mar 28, 2018	Mark Leonard	Joyce Gilding	=	CLOSED	Done
AAI-891	Visit MSB with port 443		Mar 19, 2018	Mar 29, 2018	Li Zi	Li Zi	=	CLOSED	Done
AAI-886	AAI Edge Label cleanup		Mar 15, 2018	Mar 29, 2018	Christina Monteleone	James Forsyth	=	CLOSED	Done
AAI-855	Remove ECOMP trademark from LICENSE.TXT files in impacted repos		Mar 12, 2018	Jul 10, 2019	James Forsyth	James Forsyth	>	CLOSED	Done
AAI-841	Replace dmaapclient dependency		Mar 08, 2018	Jul 10, 2019	James Forsyth	James Forsyth	=	CLOSED	Done
AAI-822	Update AAI repos to use logging-service:1.2.1		Feb 28, 2018	Mar 28, 2018	Venkata Harish Kajur	James Forsyth	=	CLOSED	Done
AAI-819	Generic "containment-path" query		Feb 27, 2018	Jul 10, 2019	Robby Maharajh	James Forsyth	>	CLOSED	Done
AAI-812	Call the API of Multi-Cloud to query vimType and versions when register VIM		Feb 27, 2018	Mar 01, 2018	Li Zi	Li Zi	>	CLOSED	Done
AAI-809	Remove/replace dependency on powermock-module-javaagent		Feb 23, 2018	Feb 27, 2018	Tian Lee	James Forsyth	>	CLOSED	Done
AAI-808	Remove/replace google difutils		Feb 23, 2018	Feb 27, 2018	Venkata Harish Kajur	James Forsyth	>	CLOSED	Done
AAI-779	Build and deploy Champ microservice		Feb 16, 2018	May 15, 2018	Gabriel Sanchez	Gabriel Sanchez	=	CLOSED	Done
AAI-777	Remove amsterdam jobs and set daily jobs to "disabled: true"		Feb 14, 2018	Feb 22, 2018	James Forsyth	James Forsyth	=	CLOSED	Done
AAI-763	Custom Query Enhancements		Feb 12, 2018	Mar 29, 2018	James Forsyth	James Forsyth	=	CLOSED	Done
AAI-760	Schema Ingest Library		Feb 12, 2018	Mar 29, 2018	Jane Threefoot	James Forsyth	=	CLOSED	Done
AAI-759	Remove 1.0 and 1.1 jobs from ci-management for AAI		Feb 12, 2018	Mar 29, 2018	Venkata Harish Kajur	James Forsyth	=	CLOSED	Done

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Longer term roadmap

This presentation was given by AT&T's Phil Blackwood on AAI's weekly meeting: [2018-01-05 AAI Weekly Meeting notes](#)

[AAI Roadmap 2018-01-05.pdf](#)



AAI Roadmap 2018-01-05.pdf

Release Deliverables

Indicate the outcome (Executable, Source Code, Library, API description, Tool, Documentation, Release Note...) of this release.

Deliverable Name	Deliverable Description
Move to Active OpenSource Graph database	A&AI is currently using titan which is not actively being developed . We want to explore and implement a replacement FOSS solution which is being actively developed.
Gizmo	Executable. Atomic REST CRUD interface to graph database
A&AI resources	Executable. REST CRUD interface to graph database
A&AI traversal	Executable. REST Interface for complex queries
Data router	Executable
ESR	Exectuable
OOM Config	Source code - configuration recommendations for using AAI dockers in the OOM environments
IM	Exectuable - stretch goal

Sub-Components

List all sub-components part of this release.

Activities related to sub-components must be in sync with the overall release.

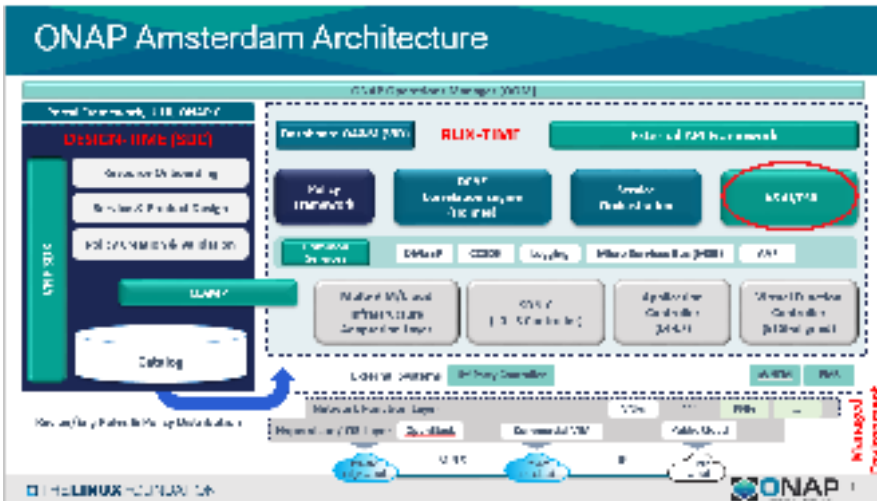
Sub-components are repositories and are consolidated in a single centralized place. Edit the [Release Components name for your project](#) in the centralized page.

Architecture

High level architecture diagram

At that stage within the Release, the team is expected to provide more Architecture details describing how the functional modules are interacting.

Indicate where your project fit within the [ONAP Architecture diagram](#).



Platform Maturity

Referring to [CII Badging Security Program](#) and [Platform Maturity Requirements](#), fill out the table below by indicating the actual level, the targeted level for the current release and the evidences on how you plan to achieve the targeted level.

Area	Actual Level	Targeted Level for current Release	How, Evidences	Comments
Performance	0	1	The target is to capture baseline performance, but it is unclear what we'll be capturing.	<ul style="list-style-type: none"> 0 -- none 1 -- baseline performance criteria identified and measured 2 & 3 -- performance improvement plans created & implemented
Stability	0	1	Unclear what kinds of random transactions will be sent to AAI. Assuming it will be random runs of existing use cases w/ Robot or jmeter	<ul style="list-style-type: none"> 0 -- none 1 -- 72 hours component level soak w/random transactions 2 -- 72 hours platform level soak w/random transactions 3 -- 6 months track record of reduced defect rate
Resiliency	1	2	AAI will leverage OOMs single site failure detection and recovery	<ul style="list-style-type: none"> 0 -- none 1 -- manual failure and recovery (< 30 minutes) 2 -- automated detection and recovery (single site) 3 -- automated detection and recovery (geo redundancy)
Security	0	1	AAI will get to 50+ test coverage, most repos already above 50% ONAP SONAR	<ul style="list-style-type: none"> 0 -- none 1 -- CII Passing badge + 50% Test Coverage 2 -- CII Silver badge; internal communication encrypted; role-based access control and authorization for all calls 3 -- CII Gold
Scalability	0	1	AAI will leverage OOM; currently working on a clustered solution for cassandra on docker AAI-539 - Getting issue details... <input type="button" value="STATUS"/>	<ul style="list-style-type: none"> 0 -- no ability to scale 1 -- single site horizontal scaling 2 -- geographic scaling 3 -- scaling across multiple ONAP instances
Manageability	1	1	AAI uses EELF and will continue to do so in Beijing	<ul style="list-style-type: none"> 1 -- single logging system across components; instantiation in < 1 hour 2 -- ability to upgrade a single component; tracing across components; externalized configuration management

Usability	1	1		<ul style="list-style-type: none"> • 1 – user guide; deployment documentation; API documentation • 2 – UI consistency; usability testing; tutorial documentation
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• API Incoming Dependencies

List the API this project is expecting from other projects.

Prior to Release Planning review, Team Leads must agreed on the date by which the API will be fully defined. The API Delivery date must not be later than the [release API Freeze date](#).

Prior to the delivery date, it is a good practice to organize an API review with the API consumers.

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)
DMaaP	Eventing bus			
MSB	Service registry			
SDC	A&AI Model loader consumes model objects			
Multi-VIM	Image storage, cloud-infrastructure update			https://wiki.onap.org/download/attachments/13599038/MultiVIM-onap-draft-r1-0822.doc?version=1&modificationDate=1503406573000&api=v2

• API Outgoing Dependencies

API this project is delivering to other projects.

API Name	API Description	API Definition Date	API Delivery date	API Definition link (i.e.swagger)
SO	REST API	TBD	TBD	
APPC	REST API	TBD	TBD	
POLICY	REST API	TBD	TBD	
VID	REST API	TBD	TBD	
SDNC	REST API	TBD	TBD	
HOLMES	REST API	TBD	TBD	
VF-C	REST API	TBD	TBD	
CLI	REST API	TBD	TBD	
MultiVim	REST API	TBD	TBD	
SDC	REST API(upload/query images)	TBD	TBD	

• Third Party Products Dependencies

Third Party Products mean products that are mandatory to provide services for your components. Development of new functionality in third party product may or not be expected.

List the Third Party Products (OpenStack, ODL, RabbitMQ, ElasticSearch, Crystal Reports, ...).

Name	Description	Version
JanusGraph	Open-source, distributed graph database	0.2.0
Ubuntu	Open-source software operating system	16.0.4-LTS
Cassandra	Open-source distributed storage system	3.11
Docker	VM container	
AJSC	Open-source Microservice application sever	6
ElasticSearch	Search framework	2.4.1
HAPROXY	microservice front end	1.7

• Testing and Integration Plans

Provide a description of the testing activities (unit test, functional test, automation,...) that will be performed by the team within the scope of this release.

Describe the plan to integrate and test the release deliverables within the overall ONAP system.
Confirm that resources have been allocated to perform such activities.

• Gaps

This section is used to document a limitation on a functionality or platform support. We are currently aware of this limitation and it will be delivered in a future Release.

List identified release gaps (if any), and its impact.

Gaps identified	Impact
To fill out	To fill out

• Known Defects and Issues

Provide a link toward the list of all known project bugs.

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
AAI-1928	AAI-Internal server Error:500		Nov 16, 2018	Aug 01, 2019		Venkata Harish Kajur	Suryansh Pratap		CLOSED	Done
AAI-1370	Search service not accepting certificates		Jul 11, 2018	Jul 24, 2018		Arul Nambi	Arul Nambi		CLOSED	Done
AAI-1222	AAI test-config has outdated deploy script		Jun 12, 2018	Jun 12, 2018		James Forsyth	James Forsyth		CLOSED	Done
AAI-1217	Closed-loop does not recover if aai-resources pod is killed		Jun 08, 2018	Jun 13, 2018		James Forsyth	James Forsyth		CLOSED	Done
AAI-1216	Access to A&AI UI and Xdemo App from Onap Portal (Beijing version)		Jun 08, 2018	Jun 27, 2018		Arul Nambi	Danut Gita		CLOSED	Done
AAI-1189	[gizmo] Latest Gizmo release artifact is not starting in OOM		May 31, 2018	Jun 01, 2018		Gabriel Sanchez	James Forsyth		CLOSED	Done
AAI-1184	vCPE service distribution to AAI failed in OOM-deployed env		May 29, 2018	Jul 10, 2019		Kang Xi	Kang Xi		CLOSED	Done
AAI-1181	Model Loader appears to update AAI after DEPLOY_OK		May 25, 2018	May 26, 2018		James Forsyth	Brian Freeman		CLOSED	Done
AAI-1153	[Champ] Bump to 1.2.2-SNAPSHOT and 1.2.2 in version.properties		May 22, 2018	May 22, 2018		Michael Arrastia	Michael Arrastia		CLOSED	Done
AAI-1151	[Champ & Gizmo] Fix JJB jenkins jobs		May 21, 2018	May 22, 2018		Gabriel Sanchez	Gabriel Sanchez		CLOSED	Done
AAI-1148	[Model-Loader] Rollback of VNF Images fails		May 17, 2018	May 17, 2018		Tian Lee	Tian Lee		CLOSED	Done
AAI-1146	[champ] daily build job is failing		May 17, 2018	May 21, 2018		James Forsyth	James Forsyth		CLOSED	Done
AAI-1144	[oom and test-config] robot-ete is missing from realtime clients list		May 16, 2018	May 17, 2018		James Forsyth	James Forsyth		CLOSED	Done
AAI-1143	[resources] createDbSchema.sh tries to add -SNAPSHOT version to classpath		May 16, 2018	May 17, 2018		James Forsyth	James Forsyth		CLOSED	Done

AAI-1142	[champ] doesn't create release artifacts		May 16, 2018	May 16, 2018	Gabriel Sanchez	James Forsyth		CLOSED	Won't Do
AAI-1141	[champ] duplicate dependency in pom.xml		May 15, 2018	May 16, 2018	James Forsyth	James Forsyth		CLOSED	Done
AAI-1139	[resources and traversal] do not release artifacts properly		May 15, 2018	May 16, 2018	Venkata Harish Kajur	James Forsyth		CLOSED	Done
AAI-1138	[Champ] Bump to 1.2.1-SNAPSHOT and 1.2.1 in version.properties		May 15, 2018	May 22, 2018	Ravi Geda	Gabriel Sanchez		CLOSED	Done
AAI-1136	Babel doesnt start in HEAT due to log directory permissions		May 12, 2018	Jul 10, 2019	James Forsyth	Brian Freeman		CLOSED	Done
AAI-1135	[traversal] closed loop named-query is missing property-collect-list		May 10, 2018	May 10, 2018	James Forsyth	James Forsyth		CLOSED	Done

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• Risks

List the risks identified for this release along with the plan to prevent the risk to occur (mitigation) and the plan of action in the case the risk would materialized (contingency).

Risk identified	Mitigation Plan	Contingency Plan
To fill out	To fill out	To fill out

• Resources

Fill out [the Resources Committed to the Release](#) centralized page.

• Release Milestone

The milestones are defined at the [Release Level](#) and all the supporting project agreed to comply with these dates.

• Team Internal Milestone

This section is optional and may be used to document internal milestones within a project team or multiple project teams. For instance, in the case the team has made agreement with other team to deliver some artifacts on a certain date that are not in the release milestone, it is recommended to provide these agreements and dates in this section.

It is not expected to have a detailed project plan.

Date	Project	Deliverable
To fill out	To fill out	To fill out

• Documentation, Training

- Highlight the team contributions to the specific document related to the project (Config guide, installation guide...).
- Highlight the team contributions to the overall Release Documentation and training asset
- High level list of documentation, training and tutorials necessary to understand the release capabilities, configuration and operation.
- Documentation includes items such as:
 - Installation instructions
 - Configuration instructions
 - Developer guide
 - End User guide
 - Admin guide
 - ...



Note

The Documentation project will provide the Documentation Tool Chain to edit, configure, store and publish all Documentation asset.

Other Information

- Vendor Neutral

If this project is coming from an existing proprietary codebase, ensure that all proprietary trademarks, logos, product names, etc. have been removed. All ONAP deliverables must comply with this rule and be agnostic of any proprietary symbols.

- Free and Open Source Software

FOSS activities are critical to the delivery of the whole ONAP initiative. The information may not be fully available at Release Planning, however to avoid late refactoring, it is critical to accomplish this task as early as possible.

List all third party Free and Open Source Software used within the release and provide License type (BSD, MIT, Apache, GNU GPL,...).

In the case non Apache License are found inform immediately the TSC and the Release Manager and document your reasoning on why you believe we can use a non Apache version 2 license.

Each project must edit its project table available at [Project FOSS](#).

Charter Compliance

The project team comply with the [ONAP Charter](#).