AAF R2 Beijing Release - M1 Release Planning

Overview

Project Name	Application Authorization Framework
Target Release Name	Beijing Release
Project Lifecycle State	Incubation
Participating Company	AT&T, Intel, Tech Mahindra

Scope

What is this release trying to address?

AAF trying to address the secured communication threw certificate management & token based Authentication,Authorization

Use Cases

The existing Amsterdam use cases are still going to be supported and additional use cases related to the will be supported for the Beijing Release

Minimum Viable Product

For Beijing release, the minimum viable product we are targeting is integrating AAF with multiple ONAP applications and perform secured transactions.

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
AAF-94	SoftHSMv2 + TPM-Plugin	⚡	Jan 16, 2018	Aug 08, 2018		Unassigned	None	=	CLOSED	Done
AAF-93	Epic to track integration issues related to SMS and AAF	⚡	Jan 16, 2018	Aug 08, 2018		Unassigned	None	=	CLOSED	Done
AAF-92	Epic to track development activities for Secret Management Service	⚡	Jan 16, 2018	Aug 08, 2018		Unassigned	None	=	CLOSED	Done
AAF-14	AAF MSB Integration	⚡	Jul 21, 2017	Nov 19, 2019		Unassigned	None	=	CLOSED	Not Done
AAF-12	As an Application, I need an area to define my Roles, Permissions and Credentials within my Organization.	⚡	Jul 12, 2017	Dec 11, 2020		Unassigned	None	=	CLOSED	Done
AAF-8	As a System, I need to define and enforce Authorizations with safe and secure Organizational Boundaries.	⚡	Jul 12, 2017	Dec 11, 2020		Unassigned	None	=	CLOSED	Done
AAF-7	As an Application, I need fast, reliable access to Authentication and Authorization for my chosen technology.	⚡	Jul 12, 2017	Dec 09, 2021		Unassigned	None	=	CLOSED	Won't Do
AAF-6	As an Application, I need one or more ways to input definitions and define relationships	⚡	Jul 12, 2017	Dec 09, 2021		Unassigned	None	=	CLOSED	Won't Do
AAF-4	As an Application with multiple service Instances, I need access to the same Central store of Authorization for each of my Components.	⚡	Jul 12, 2017	Dec 09, 2021		Unassigned	None	=	CLOSED	Won't Do
AAF-3	As an Application, I need to Define Permissions that match the Resources I must Protect	⚡	Jul 12, 2017	Jan 09, 2019		Unassigned	None	=	CLOSED	Done
AAF-2	As an Organization, I need to group Users and Apps with the same functions into Roles	⚡	Jul 12, 2017	Jan 09, 2019		Unassigned	None	=	CLOSED	Done
AAF-1	As a Service, I need to know what Permissions in my Scope a User has, in order make decisions	⚡	Jul 12, 2017	Jan 09, 2019		Unassigned	None	=	CLOSED	Done

12 issues

Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution

No issues found

Longer term roadmap

 AAF is to organize software authorizations so that applications, tools and services can match the access needed to perform job functions. This is a critical function for Cloud environments, as Services need to be able to be installed and running in a very short time, and should not be encumbered with local configurations of Users, Permissions and Passwords.To be effective during a computer transaction, Security must not only be secure, but very fast. Given that each transaction must be checked and validated for Authorization and Authentication, it is critical that all elements on this path perform optimally.

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

| Deliverable Name	Deliverable Description
AAF integration with Appc	AAF Git repository
AAF source code	AAF Git repository
AAF library	ONAP Nexus repository
AAF API description	ONAP wiki
AAF Release Notes	ONAP wiki
AAF Documentation	AAF Git repository

Sub-Components

As part of the Beijing release,Certificate Management will be added to the AAF
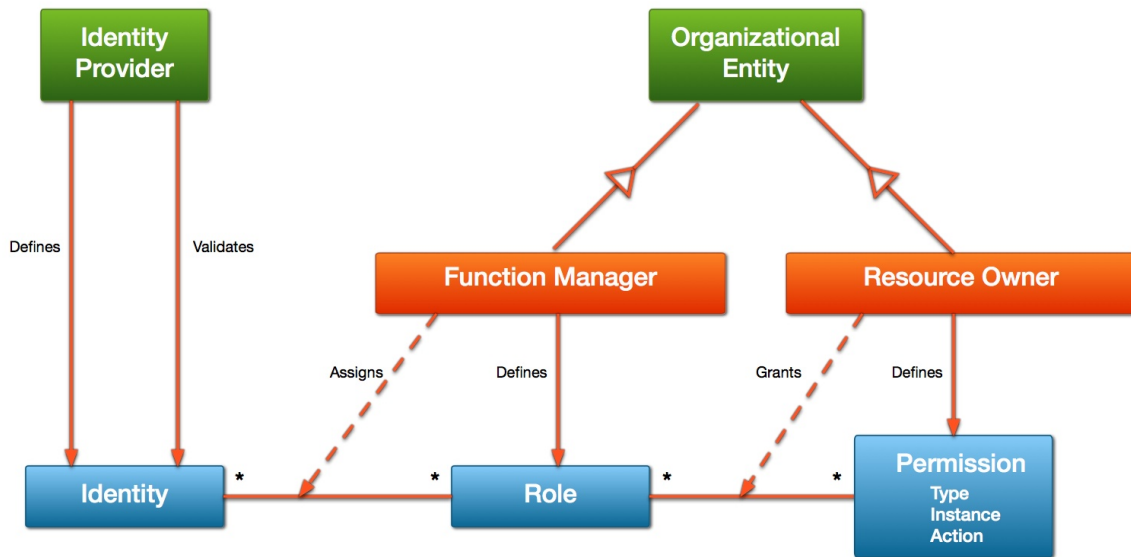
Architecture

Architecture

High level architecture diagram
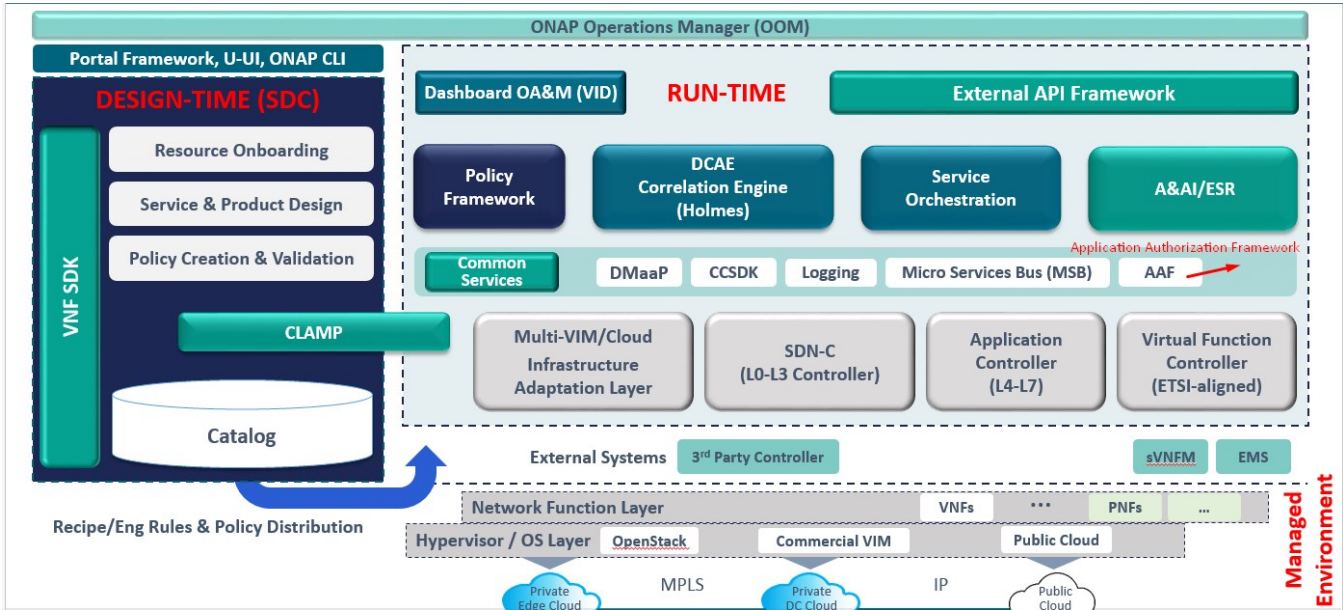
AAF High Level Object Model

Note: AAF brings Attribute Based Permissions into a robust, scalable and manageable Role System

Platform Maturity

Refering 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	Run performance basic test, depends on performance criteria availability for level 1	• 0 -- none • 1 – baseline performance criteria identified and measured • 2 & 3 – performance improvement plans created & implemented
Stability	0	1	Participate to Stability runs Level 1	• 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	1		• 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	Reach CII passing badge, increasing test coverage as remaining item	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	Reach Level 1 single site horizontal scaling	0 – no ability to scale 1 – single site horizontal scaling 2 – geographic scaling 3 – scaling across multiple ONAP instances
Manageability	1	1	Using LOG4J common framework for logging	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	API documentation provided	1 – user guide; deployment documentation; API documentation 2 – UI consistency; usability testing; tutorial documentation

- - 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)
None	None	None	None	None

- - 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)
Provisining	API for creating,deleting and listing the administrative objects	Aug 02 2017	March 08 2018	AAF API
Admin API	API for the admin access	Aug 02 2017	March 08 2018	AAF API
CADI	CADI (CODE ACCESS DATA IDENTITY)	Aug 02 2017	March 08 2018	AAF API

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
Docker	Container engine	1.12
Cassandra	database container	2.1.16

In case there are specific dependencies (Centos 7 vs Ubuntu 16. Etc.) list them as well.

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.

AAF will invest in CSIT tests to allow further integration testing, AAF already provided some tests as part of R1.

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
Testing/Integration	limited testing of final product

- ## 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
AAF-1217	AAF cert service failed to start (expired certificate)	🟥	Aug 21, 2023	Feb 06, 2024		Andreas Geissler	None	=	IN PROGRESS	Unresolved
AAF-1215	all ONAP CII pages are not showing up on ONAP scans	🟥	Aug 17, 2021	Sep 22, 2021		Unassigned	None	︿	CLOSED	Done
AAF-1213	fix CRITICAL xss (cross site scripting) issues identified in sonarcloud	🟥	May 27, 2021	Sep 23, 2021	Aug 26, 2021	Unassigned	None	︽	CLOSED	Done
AAF-1212	AAF CM limited number of certificate-requests cause ONAP components to hang	🟥	Apr 07, 2021	Oct 13, 2021		Unassigned	Andreas Geissler	︿	REOPENED	Won't Do
AAF-1211	fix CRITICAL weak-cryptography issues identified in sonarcloud	🟥	Mar 02, 2021	May 27, 2021		Unassigned	None	︿	CLOSED	Won't Do
AAF-1204	/authn/validate fails with SingleEndpointLocator	🟥	Sep 29, 2020	Dec 04, 2020		Unassigned	None	=	CLOSED	Done
AAF-1200	AAF has java 8 pods	🟥	Sep 10, 2020	Apr 21, 2021		Unassigned	None	︿	CLOSED	Won't Do
AAF-1199	AAF has python 2.7 pods	🟥	Sep 10, 2020	Apr 21, 2021		Unassigned	None	︿	CLOSED	Won't Do
AAF-1198	AAF has rooted pods	🟥	Sep 09, 2020	Sep 28, 2020		Unassigned	None	︿	CLOSED	Done
AAF-1192	Release Note - Frankfurt Maintenance - wrong version	🟥	Aug 25, 2020	Aug 25, 2020		Unassigned	None	︿	CLOSED	Done
AAF-1176	AAF cert service failed to start (expired certificate)	🟥	Jul 06, 2020	Aug 21, 2023		Unassigned	None	=	CLOSED	Done
AAF-1175	Certificate between CertService client and CertService server has expired	🟥	Jul 03, 2020	Mar 17, 2021		Unassigned	None	︿	CLOSED	Done
AAF-1160	Certificate expired for AAF-SMS-Preload in Elalto Release	🟥	Jun 13, 2020	Jun 19, 2020		Unassigned	None	=	CLOSED	Done

AAF-1159	Certificate expired for AAF-SMS	🔴	Jun 04, 2020	Jun 19, 2020	Unassigned	None	≫	CLOSED	Done
AAF-1157	HttpURLConnection client not getting ReadTimeout setting from RCli	🔴	May 28, 2020	Dec 04, 2020	Unassigned	None	=	OPEN	Unresolved
AAF-1150	no retries due to failed connect requests for /auth /validate	🔴	May 26, 2020	Sep 17, 2020	Unassigned	None	=	CLOSED	Done
AAF-1148	AAF Frankfurt Release note not updated?	🔴	May 19, 2020	Jun 01, 2020	Unassigned	None	∧	CLOSED	Done
AAF-1141	SMS health check failure	🔴	Apr 29, 2020	May 13, 2020	Unassigned	None	∧	CLOSED	Cannot Reproduce
AAF-1139	CADI Configuration Fails Loading Direct and HTTP OAuth TAF Classes	🔴	Apr 28, 2020	Dec 09, 2021	Unassigned	None	=	CLOSED	Won't Do
AAF-1134	aaf agent image contains hardcoded certificates	🔴	Apr 24, 2020	Apr 21, 2021	Unassigned	None	∧	CLOSED	Won't Do

Showing 20 out of 179 issues

- # Risks
  No known risks so far.

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 may be used to document internal milestones that the team agreed on.

  Also, 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, provide these agreements and dates in this section.

  It is not expected to have a detailed project plan.

Date	Project	Deliverable
To fill out	AAF	AAF - CertMan,oAuth

Documentation, Training

http://onap.readthedocs.io/en/latest/submodules/aaf/authz.git/docs/index.html

⚠️ **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.