

DMaaP R3 - M1 Release Planning

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Overview

Project Name	Enter the name of the project
Target Release Name	Casablanca
Project Lifecycle State	Incubation
Participating Company	AT&T

Scope

What is this release trying to address?

Upgrading the Kafka to 0.11

Updating the Message Router with the Kafka upgrade changes

Native Kafka API support

Message Router and AAF integration

Kafka and AAF integration

Buscontroller and AAF integration

Provisioning of authenticated topics

Use Cases

The existing Beijing use cases are still going to be supported .

Minimum Viable Product

Custom Kafka image with AAF integration

Secured Message Router using AAF

Buscontroller using AAF

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
DMAAP-1898	Release Candidate	🔧	Oct 30, 2023	Oct 30, 2023	Nov 09, 2023	Unassigned	None	==	OPEN	Unresolved
DMAAP-1887	Release Candidate	🔧	May 05, 2023	May 05, 2023	Apr 20, 2023	Unassigned	None	==	OPEN	Unresolved
DMAAP-1884	Release Sign Off	🔧	May 05, 2023	May 05, 2023	May 11, 2023	Unassigned	None	==	OPEN	Unresolved
DMAAP-1877	Feature Freeze	🔧	Mar 30, 2023	Mar 30, 2023	Mar 23, 2023	Unassigned	None	==	OPEN	Unresolved
DMAAP-1867	Finalized Code Submission	🔧	Feb 10, 2023	Feb 10, 2023	Mar 02, 2023	Unassigned	None	==	OPEN	Unresolved
DMAAP-1858	Specification Freeze	🔧	Jan 13, 2023	Feb 09, 2023	Feb 09, 2023	Unassigned	None	==	REOPENED	Done
DMAAP-1835	Common strategy for apps to migrate to kakfa native	🔧	Nov 07, 2022	Jun 27, 2023		Unassigned	None	==	OPEN	Unresolved
DMAAP-1829	Global Requirements Approval	🔧	Nov 03, 2022	Dec 15, 2022	Dec 01, 2022	Unassigned	None	==	CLOSED	Done
DMAAP-1825	Global Requirements Approval	🔧	Nov 03, 2022	Nov 03, 2022	Jun 09, 2022	Unassigned	None	==	CLOSED	Won't Do
DMAAP-1821	Release Sign Off	🔧	Oct 27, 2022	Nov 30, 2022	Nov 10, 2022	Unassigned	None	==	CLOSED	Done
DMAAP-1779	Release Candidate	🔧	Oct 03, 2022	Oct 25, 2022	Oct 20, 2022	Unassigned	None	==	CLOSED	Done
DMAAP-1768	Feature Freeze	🔧	Sep 02, 2022	Sep 02, 2022	Sep 15, 2022	Unassigned	None	==	OPEN	Unresolved
DMAAP-1759	Finalized Code Submission	🔧	Jul 19, 2022	Jul 19, 2022	Sep 01, 2022	Unassigned	None	==	OPEN	Unresolved
DMAAP-1749	Specification Freeze	🔧	Jun 27, 2022	Jun 27, 2022	Jun 30, 2022	Unassigned	None	==	OPEN	Unresolved
DMAAP-1744	Move SDC and clients to use Strimzi Kafka	🔧	May 17, 2022	Jun 22, 2023		Unassigned	None	==	CLOSED	Done
DMAAP-1741	Release Sign Off	🔧	May 16, 2022	Oct 19, 2022	May 05, 2022	Unassigned	None	==	OPEN	Unresolved
DMAAP-1737	Global Requirements Approval	🔧	May 09, 2022	May 09, 2022	May 26, 2022	Unassigned	None	==	OPEN	Unresolved
DMAAP-1729	Release Candidate	🔧	Mar 31, 2022	Oct 19, 2022	Apr 21, 2022	Unassigned	None	==	OPEN	Unresolved
DMAAP-1716	Feature Freeze	🔧	Mar 12, 2022	Oct 19, 2022	Mar 17, 2022	Unassigned	None	==	OPEN	Unresolved

DMAAP-1707	Finalized Code Submission		Feb 04, 2022	Oct 19, 2022	Mar 03, 2022	Unassigned	None		<button>OPEN</button>	Unresolved
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Stories

Key	Summary	T	Created	Updated	Due	Assignee	Reporter	P	Status	Resolution
DMAA P-1135	[MR] DMaaP message-service - updating test cases for more coverage		Apr 01, 2019	Apr 09, 2019		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-873	Update DMaaP MR release notes		Nov 06, 2018	Nov 07, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-871	Resolve the licence issue with the javax.jms : jms : 1.1		Oct 30, 2018	Nov 01, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-858	Update the package name to remove ATT reference in MR		Oct 23, 2018	Oct 31, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-825	Resolve duplicate log generation issue in MR		Sep 24, 2018	Sep 26, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-824	Resolve medium and above Sonar Vulnerabilities in MR		Sep 24, 2018	Oct 12, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-808	Unit test coverage for DMAAP-DMAAPCLIENT		Sep 20, 2018	Jan 16, 2019		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-800	Unit Test coverage for Buscontroller		Sep 19, 2018	Sep 24, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-784	Resolve security issues in MessageRouter due to the component com.fasterxml.jackson.core : jackson-databind : 2.8.11.1		Sep 17, 2018	Sep 17, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-772	Integrate MR with the AAF		Sep 12, 2018	Sep 24, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-769	Sonar fixes DMAAP /DMAAPCLIENT		Sep 12, 2018	Jan 16, 2019		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-768	Resolve critical license issues in DMaaP MR		Sep 11, 2018	Sep 11, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-738	Resolve Security violations in messageservice ,msgtr and AJSC projects		Sep 05, 2018	Sep 11, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-713	Update Docker Compose YAML files for Kaka 0.11.0.1 changes		Sep 04, 2018	Sep 05, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-686	Fix the errors while creating the publisher and subscriber in DMaaPClient		Aug 30, 2018	Sep 05, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-647	Automatic provisioning of API Perms		Aug 24, 2018	Aug 24, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-628	Custom Kafka 0.8.11.0.1 changes		Aug 22, 2018	Aug 29, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-611	CII Silver Badge complete for M4 checklist		Aug 17, 2018	Nov 07, 2018		Unassigned	None		<button>CLOSED</button>	Done
DMAA P-598	Create new project and Jenkin job for creating the Kafka image		Aug 15, 2018	Aug 30, 2018		Unassigned	None		<button>CLOSED</button>	Done

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Longer term roadmap

DMaaP is a premier platform for high performing and cost effective data movement services that transports and processes data from any source to any target with the format, quality, security, and concurrency required to serve the business and customer needs.

Release Deliverables

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

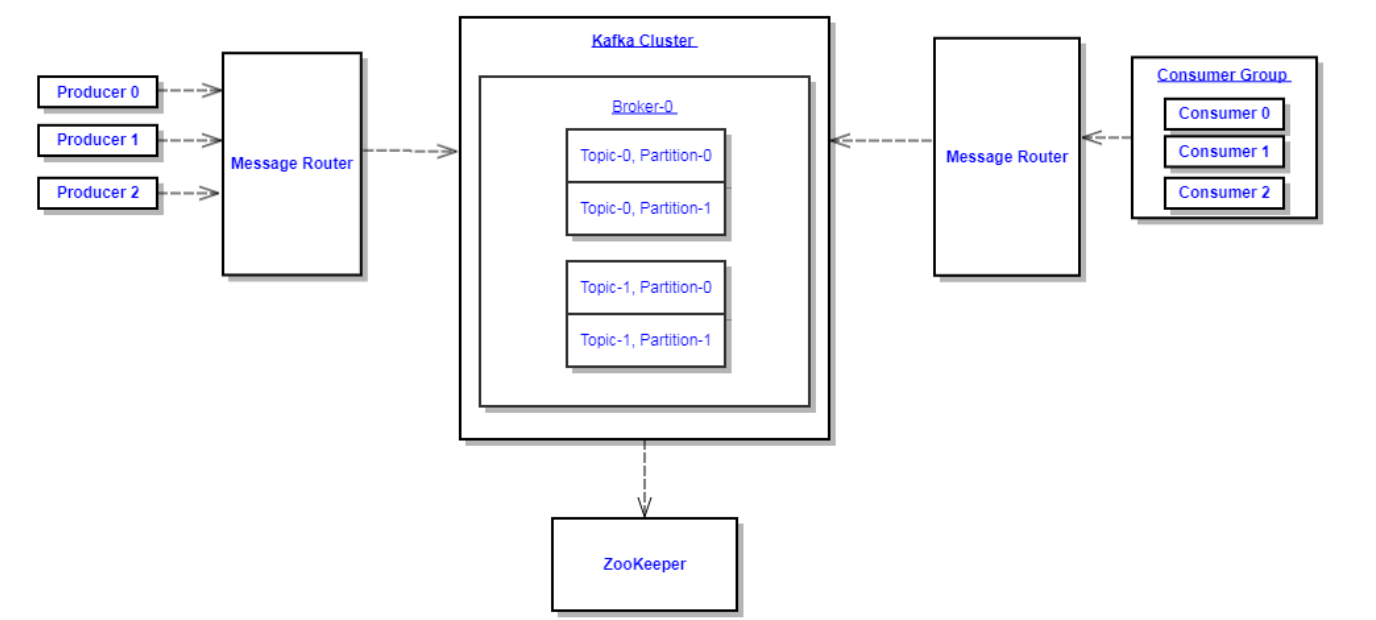
Deliverable Name	Deliverable Description
Docker image	Custom Kafka image and DMaaP images
Source Code	Source code of DMaaP
Release Note	Release note of the release

Sub-Components

kafka AAF plugin

Architecture

DMaaP Message Router Architecture:



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	1	1	DMaaP Message Router Performance Test Results	<ul style="list-style-type: none"> 0 -- none 1 – baseline performance criteria identified and measured 2 & 3 – performance improvement plans created & implemented
Stability	1	1	72 Hour Stability Testing	<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	2	2	Recovery in case of a failure was supported by the Kubernetes and manual recovery was verified.Refer the screenshot for details. DMAAP_Message_Router_Resiliency_Test.jpg	<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	1	1		<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	1	1	Met the single site horizontal scaling	<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	DMaaP uses EELF logging framework through the application	<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	DMaaP documentation is available at http://onap.readthedocs.io/en/latest/submodules/dmaap/messagerouter/messageservice.git/docs/index.html	<ul style="list-style-type: none"> 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)
AAF	Authentication and Authorization Framework	TBD	TBD	TBD

• 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)
DMaaP MR API	API used to create Topics ,publish a message,subscribe to a Topic etc.	Date for which the API is reviewed and agreed	TBD	API documentation
DMaaP Buscontroller API	Provisioning API for management of Topics and Feeds	Date for which the API is reviewed and agreed	M2	API documentation (ReadTheDocs)

• 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
AJSC	Java services container	3.0.6-oss
Kafka	Distributed messaging platform	0.11.0
Zoo Keeper	Centralized service for maintaining configuration information	3.4.6
Spring	Spring Framework	1.4
Docker	Container engine	1.12

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

• Testing and Integration Plans

1. Unit test: Unit tests has at least 50% code coverage.
2. Functional test: Leverage the robot framework infrastructure to provide the functional test.
3. Integration test: Support integration team to provide the end to end integration test.
4. All the above should be automation tests run on the LF Jenkins Infrastructure.

• 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
DMAA P-1247	[MR] Certificate expired issue		Jul 24, 2019	Aug 01, 2019		Unassigned	None		CLOSED	Done
DMAA P-1074	dmaap-dr-node pod restarting with 8080 connection refused error		Mar 06, 2019	Mar 22, 2019		Unassigned	None		CLOSED	Done
DMAA P-1065	[DR] Casablanca - AAF certs expired on dmaap-dr-prov and dmaap-dr-node		Feb 26, 2019	Apr 30, 2020		Unassigned	None		CLOSED	Done
DMAA P-882	Topic Subscription not working in MR after rebooting the containers		Nov 15, 2018	Nov 19, 2018		Unassigned	None		CLOSED	Done

DMAA P-877	DR Logging API not storing Feed/Sub data		Nov 07, 2018	Nov 12, 2018	Unassigned	None	=	CLOSED	Done
DMAA P-874	AAF Artifact not found		Nov 06, 2018	Nov 07, 2018	Unassigned	None	=	CLOSED	Done
DMAA P-872	DMaaP MR crash loopback - missing mail-1.4		Nov 03, 2018	Nov 06, 2018	Unassigned	None	>	CLOSED	Done
DMAA P-868	DMaaP MR cache service unavailable : cant read events on fresh install (sporadic)		Oct 26, 2018	Oct 30, 2018	Unassigned	None	>	CLOSED	Done
DMAA P-855	Buscontroller Jenkins daily jobs failing		Oct 22, 2018	Oct 24, 2018	Unassigned	None	=	CLOSED	Done
DMAA P-850	Second subscriber not receiving the published file		Oct 17, 2018	Oct 22, 2018	Unassigned	None	=	CLOSED	Done
DMAA P-846	DBCAPI support for ONAP topic namespace		Oct 10, 2018	Oct 12, 2018	Unassigned	None	=	CLOSED	Done
DMAA P-844	DMAAP service fails from time to time and can not be restored by helm deploy after failure		Oct 10, 2018	Nov 20, 2018	Unassigned	None	=	CLOSED	Done
DMAA P-840	DMaaP server certificate does not have a DNS resolvable name in the SAN section for Heat installs		Oct 08, 2018	Oct 08, 2018	Unassigned	None	>	CLOSED	Not a Bug
DMAA P-827	Buscontroller CSIT failing		Sep 25, 2018	Oct 03, 2018	Unassigned	None	=	CLOSED	Done
DMAA P-826	useAAF flag not being initialized		Sep 24, 2018	Oct 01, 2018	Unassigned	None	=	CLOSED	Done
DMAA P-783	helm install error: "Invalid value: 30269: provided port is already allocated" to dmaap and contrib		Sep 17, 2018	Sep 17, 2018	Unassigned	None	>	CLOSED	Won't Do
DMAA P-689	Password username authKey AutDate required although HTTPNOAUTH set		Aug 31, 2018	Sep 05, 2018	Unassigned	None	=	CLOSED	Done
DMAA P-688	Exception thrown that password is needed although it is provided		Aug 31, 2018	Aug 31, 2018	Unassigned	None	=	CLOSED	Not a Bug
DMAA P-685	Kafka container doesnt start		Aug 30, 2018	Sep 05, 2018	Unassigned	None	>	CLOSED	Done
DMAA P-624	Publish to Feed CSIT Test Case Failing		Aug 21, 2018	Aug 21, 2018	Unassigned	None	=	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](#).