



Red Hat Fuse 7.0

Release Notes

What's new in Red Hat Fuse

Red Hat Fuse 7.0 Release Notes

What's new in Red Hat Fuse

Legal Notice

Copyright © 2018 Red Hat, Inc.

The text of and illustrations in this document are licensed by Red Hat under a Creative Commons Attribution–Share Alike 3.0 Unported license ("CC-BY-SA"). An explanation of CC-BY-SA is available at

<http://creativecommons.org/licenses/by-sa/3.0/>

. In accordance with CC-BY-SA, if you distribute this document or an adaptation of it, you must provide the URL for the original version.

Red Hat, as the licensor of this document, waives the right to enforce, and agrees not to assert, Section 4d of CC-BY-SA to the fullest extent permitted by applicable law.

Red Hat, Red Hat Enterprise Linux, the Shadowman logo, JBoss, OpenShift, Fedora, the Infinity logo, and RHCE are trademarks of Red Hat, Inc., registered in the United States and other countries.

Linux ® is the registered trademark of Linus Torvalds in the United States and other countries.

Java ® is a registered trademark of Oracle and/or its affiliates.

XFS ® is a trademark of Silicon Graphics International Corp. or its subsidiaries in the United States and/or other countries.

MySQL ® is a registered trademark of MySQL AB in the United States, the European Union and other countries.

Node.js ® is an official trademark of Joyent. Red Hat Software Collections is not formally related to or endorsed by the official Joyent Node.js open source or commercial project.

The OpenStack ® Word Mark and OpenStack logo are either registered trademarks/service marks or trademarks/service marks of the OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation, or the OpenStack community.

All other trademarks are the property of their respective owners.

Abstract

These notes provide an overview of the changes between Red Hat Fuse releases.

Table of Contents

CHAPTER 1. FUSE 7.0 PRODUCT OVERVIEW	4
1.1. FUSE 7.0	4
1.2. FUSE DISTRIBUTIONS	4
1.3. UNIFORM TECHNOLOGY STACK	4
1.4. NEW FEATURES	5
CHAPTER 2. FUSE ONLINE	6
2.1. ABOUT THE PRODUCT NAME	6
2.2. MAIN FEATURES	6
2.3. IMPORTANT NOTES	7
2.4. OBTAINING TECHNICAL SUPPORT	7
2.5. TECHNOLOGY PREVIEW FEATURES	7
CHAPTER 3. FUSE ON OPENSIFT	9
3.1. SUPPORTED VERSION OF OPENSIFT	9
3.2. SUPPORTED IMAGES	9
3.3. NEW FEATURES	9
3.4. TECHNOLOGY PREVIEW FEATURES	9
3.5. IMPORTANT NOTES	10
3.6. UPGRADING TO FUSE 7.0.1	10
CHAPTER 4. FUSE STANDALONE	11
4.1. SUPPORTED CONTAINERS	11
4.2. NEW FEATURES	11
4.3. IMPORTANT NOTES	13
4.4. UPGRADING TO FUSE 7.0.1	14
4.4.1. Upgrading applications to 7.0.1 using the old-style BOM	14
4.4.2. Upgrading applications to 7.0.1 using the new-style BOM	14
4.5. BOM FILES FOR FUSE 7.0	15
4.5.1. Old-style BOM	15
4.5.2. New-style BOM	16
CHAPTER 5. DEPRECATED AND REMOVED FEATURES	17
5.1. REMOVED	17
5.2. REPLACED	18
5.3. DEPRECATED	18
CHAPTER 6. UNSUPPORTED FEATURES IN FUSE 7.0	20
APACHE ARIES BLUEPRINT WEB MODULE IS UNSUPPORTED	20
THE PHP SCRIPTING LANGUAGE IS NOT SUPPORTED IN APACHE CAMEL	20
THE PYTHON SCRIPTING LANGUAGE IS NOT SUPPORTED IN APACHE CAMEL	20
CHAPTER 7. KNOWN ISSUES	21
7.1. FUSE ONLINE	21
7.2. FUSE ON OPENSIFT	21
7.3. FUSE ON SPRING BOOT	22
7.4. FUSE ON ON APACHE KARAF	23
7.5. APACHE CAMEL	26
CHAPTER 8. ISSUES RESOLVED IN FUSE 7.0.1	27
CHAPTER 9. ISSUES RESOLVED IN FUSE 7.0	29
9.1. APACHE KARAF CONTAINER ISSUES RESOLVED IN FUSE 7.0	29
9.2. APACHE CAMEL ISSUES RESOLVED IN FUSE 7.0	161

9.3. APACHE CAMEL ON EAP (WILDFLY) ISSUES RESOLVED IN FUSE 7.0	260
9.4. APACHE CXF ISSUES RESOLVED IN FUSE 7.0	261
9.5. FUSE CONSOLE (HAWTIO) ISSUES RESOLVED IN FUSE 7.0	278
9.6. FUSE ON OPENSIFT ISSUES RESOLVED IN FUSE 7.0	291
CHAPTER 10. SUPPORTED CONFIGURATIONS	294
10.1. INFORMATION ON THE CUSTOMER PORTAL	294

CHAPTER 1. FUSE 7.0 PRODUCT OVERVIEW

1.1. FUSE 7.0

Welcome to the Fuse 7.0 GA release!

This release continues the evolution of Red Hat Fuse with major component upgrades and expanded range of features for the Apache Karaf, JBoss EAP, and Spring Boot containers. In addition, this release introduces a new approach to creating integrations, *Fuse Online*, which is hosted on OpenShift Online.

1.2. FUSE DISTRIBUTIONS

Fuse 7.0 is provided in the form of three different distributions, as follows:

Fuse standalone

The classic distribution of Fuse, supported on multiple operating systems. This distribution is supported for the following container types:

- Apache Karaf
- JBoss Enterprise Application Platform (EAP)
- Spring Boot

Fuse on OpenShift (previously, *Fuse Integration Services*)

The distribution of Fuse for running integration applications on OpenShift (supported on the Red Hat Enterprise Linux operating system). In this case, the supported container types are provided in the form of docker-formatted container images:

- Java image (for Spring Boot)
- Apache Karaf image:
- JBoss EAP image (new in 7.0)

Fuse Online

The distribution of Fuse that is provided pre-installed on the OpenShift Online Professional tier (and also available for installing on an on-premises OpenShift cluster). In this case, application development is facilitated by a browser based UI, *Ignite*, and the workflow is simplified to make it accessible to non-expert integrators.

1.3. UNIFORM TECHNOLOGY STACK

In Fuse 7.0, the technology stack has been refactored and rationalized to provide a uniform technology stack across all of the supported container types. This uniform technology stack now has the following main components:

- Apache Camel (application integration)
- Apache CXF (Web services)
- AMQ 7 clients with connectivity to an external broker

- Narayana (transaction manager)
- Undertow (Web container)

1.4. NEW FEATURES

Fuse 7.0 includes several major component upgrades and a large selection of new features. For details, consult the *new features* sections for each of the Fuse distributions:

- [New features for Fuse Online](#)
- [New features for Fuse on OpenShift](#)
- [New features for Fuse standalone](#)

CHAPTER 2. FUSE ONLINE

Fuse Online, a new offering in Fuse 7.0, provides a web browser interface that lets a business expert integrate two or more different applications or services without writing code. It also provides features that allow the addition of code if it is needed for complex use cases.

Fuse Online runs an integration on OpenShift as a Spring Boot application that uses Apache Camel.

2.1. ABOUT THE PRODUCT NAME

Ignite is Red Hat's web-based integration platform. [Syndesis](#) is the open source project for Ignite.

Ignite runs in two environments:

Product Name	Host Environment	Installation
Fuse Online	OpenShift Online	Red Hat installs and provisions Ignite on Red Hat infrastructure.
Ignite	OpenShift Container Platform	Customer installs and manages.

In user documentation, consider the names Fuse Online and Ignite as interchangeable.

2.2. MAIN FEATURES

A high level overview of Fuse Online is in [Integrating Applications with Ignite](#).

The main features of Fuse Online in version 7.0 are:

- Graphical web browser interface that lets business users create and monitor integrations.
- Connectors that prompt for basic parameters so you can create an integration that connects to:
 - Amazon S3 buckets
 - AMQ and AMQP brokers
 - Dropbox
 - FTP and SFTP servers
 - HTTP and HTTPS endpoints
 - MQTT brokers
 - Salesforce
 - Slack channels and users
 - SQL databases (Apache Derby, MySQL, PostgreSQL)
 - Twitter
- Built-in steps that operate on data obtained from a connection to a broker, server, or application:


- Mapping data from the previous connection to the next connection in the integration
- Basic filtering and advanced filtering
- Adding log information beyond the extensive log information automatically provided
- Visual cues that guide you through the creation of an integration, such as where data mapping is required.
- Support for adding customizations including:
 - REST API client connector
 - Custom connector based on an Apache Camel component
 - Custom data operation for processing data between connections in an integration
 - Java Database Connection (JDBC) driver for a SQL database
- Monitoring support that provides integration execution metrics, system metrics, and log information for each step in an integration.
- Support for multiple versions of an integration.

2.3. IMPORTANT NOTES

Important notes for the Fuse 7.0 release of the Fuse Online distribution:

- A Fuse Online account is limited to a specific number of integrations that can be running at one time. For details, see the pricing plan. If you are using a Fuse Online evaluation account, then only one integration at a time can be running.
- Connections to API clients are not required to specify input/output types. Input/output types *are* required, however, if you want to add a data mapper step to an integration before or after that connection.

2.4. OBTAINING TECHNICAL SUPPORT

To obtain technical support, in Ignite, in the upper right, click  and then click **Support** to display the Ignite support page. Use this page to download diagnostic information for all integrations or for one or more integrations that you choose. The page provides instructions for opening a support ticket and providing the diagnostic information that you downloaded.

2.5. TECHNOLOGY PREVIEW FEATURES

This release also includes a Technology Preview feature that lets you change the default OAuth2 behavior of connections that you create from REST API client connectors. Vendor extensions to Swagger specifications support the following:

- Providing client credentials as parameters.
- Obtaining a new access token based on HTTP response status codes.



IMPORTANT

Technology Preview features are not supported with Red Hat production service level agreements (SLAs), might not be functionally complete, and Red Hat does not recommend using them in production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process. For more information, see [Red Hat Technology Preview features support scope](#).

CHAPTER 3. FUSE ON OPENSIFT

Fuse on OpenShift is the new name for Fuse Integration Services, which enables you to deploy Fuse applications on OpenShift Container Platform.

3.1. SUPPORTED VERSION OF OPENSIFT

For details of the supported version (or versions) of OpenShift Container Platform to use with Fuse on OpenShift, see the [Supported Configurations](#) page.

3.2. SUPPORTED IMAGES

Fuse on OpenShift provides the following Docker-formatted images:

- **fuse7/fuse-java-openshift** — Spring Boot
- **fuse7/fuse-karaf-openshift** — Apache Karaf
- **fuse7/fuse-eap-openshift** — Red Hat JBoss Enterprise Application Platform
- **fuse7/fuse-console** — Hawtio console

3.3. NEW FEATURES

The main new features of Fuse on OpenShift in version 7.0 are:

New JBoss EAP image

This image provides a pre-configured installation of Fuse on JBoss EAP, making it easy to deploy Fuse applications on the JBoss EAP container.

New Hawtio console image

A Hawtio console that eases discovery and management of Hawtio enabled applications deployed on OpenShift.

Improved JVM memory tuning

In the Fuse on OpenShift images, the underlying Java virtual machine has been upgraded to a version with better JVM heuristics.

KARAF_FRAMEWORK_VERSION environment variable

A new **KARAF_FRAMEWORK_VERSION** environment variable is now provided in the Karaf container environment, making it easier to figure out the version of Apache Karaf that an application is running inside.



NOTE

This environment variable is intended to be readonly. Do not attempt to change the value of this environment variable.

3.4. TECHNOLOGY PREVIEW FEATURES

The following features of Fuse on OpenShift are *Technology Preview* only and are not supported in Fuse 7.0:

Prometheus metrics

If you already have an installation of Grafana and Prometheus, you can use it to monitor Fuse applications deployed on OpenShift.

XA transactions with scalable deployments

This feature is demonstrated by the **spring-boot-camel-xa** quickstart and template, which demonstrates how to run a Camel service on Spring Boot that supports two external transactional resources: a JMS resource (AMQ), and a database (PostgreSQL).

3.5. IMPORTANT NOTES

Important notes for the Fuse 7.0 release of the Fuse on OpenShift distribution:

Redeploying an application using the Fabric8 Maven plugin

When deploying a Fuse on OpenShift application to OpenShift Container Platform using the Fabric8 Maven plugin, you cannot redeploy the application using just the command **mvn fabric8:deploy**. Use the following sequence of commands instead:

```
mvn fabric8:undeploy
mvn fabric8:deploy
```

Red Hat Enterprise Linux is the only supported operating system

All of the provided Fuse on OpenShift images are based on the Red Hat Enterprise Linux O/S.

3.6. UPGRADING TO FUSE 7.0.1

The Fuse 7.0.1 micro release provides fixes for the issues listed in [Chapter 8, *Issues Resolved in Fuse 7.0.1*](#). For full details of how to install the Fuse 7.0.1 micro release for Fuse on OpenShift, see [Patching Fuse on OpenShift](#) in "Fuse on OpenShift Guide".

CHAPTER 4. FUSE STANDALONE

4.1. SUPPORTED CONTAINERS

Fuse standalone 7.0 is supported on the following runtime containers:

- Spring Boot (standalone)
- Apache Karaf
- Red Hat JBoss Enterprise Application Platform (JBoss EAP)

4.2. NEW FEATURES

The main new features of Fuse standalone in version 7.0 are:

- Spring Boot standalone is now a deployment option for Fuse applications. Standalone mode is where a Spring Boot application is built as a Jar file and runs directly in a Java virtual machine (JVM).
- Major upgrade of JBoss EAP to version 7.1.
- Apache Camel is upgraded to version 2.21.
- Apache Camel features the following new Enterprise Integration Patterns:
 - Claim Check EIP with push/pop functionality.
 - Saga EIP for simulating transactions in distributed systems.
- Apache Camel supports the following new data formats:
 - **camel-asn1** - the ASN.1 data format is used for file transfer with telecommunications protocols.
 - **camel-fastjson** - JSON data format (using the FastJSON library) is used to unmarshal a JSON payload to a POJO; or to marshal a POJO back to a JSON payload.
 - **camel-thrift** - the Thrift data format allows you to call and expose remote procedure calls (RPC) with the Apache Thrift data format and serialization mechanism.
- Many more Camel components are available for Camel on JBoss EAP. There are now almost as many Camel components available for the JBoss EAP container as for the Apache Karaf container.
- Major upgrade of Apache Karaf, from version 2.4 to version 4.x.
- Apache Karaf supports OSGi R6 (upgraded from OSGi R5).
- Apache Karaf is now configured to use the [Narayana](#) transaction manager (replacing the Geronimo transaction manager used in Fuse 6.x).
- Apache Karaf now supports the [Undertow](#) servlet container.
- Apache Karaf has a new features resolver, which simplifies feature installation and lifecycle. The new resolver checks the feature requirements (defined directly in the features XML), and checks

which bundles provide the capabilities to satisfy those requirements. It enables Karaf to install bundles required by features automatically.

- Client-side integration with AMQ 7 (based on [ActiveMQ Artemis](#)) is supported in Fuse 7.0. For more details, see the [Supported Configurations](#) page.
- Web tooling has been upgraded to the PatternFly look and feel.
- The following Apache Camel components are new in Fuse 7.0:
 - **camel-atomix** - a component to integrate Camel with Atomix
 - **camel-aws** - KMS component for managing Amazon KMS
 - **camel-aws** - MQ component for working with Amazon MQ
 - **camel-aws** - added lamda component to be used for invoking and working with AWS Lambda functions
 - **camel-azure** - to integrate with Microsoft Azure Cloud services
 - **camel-caffeine** - a component that allows you to interact with a Caffeine cache
 - **camel-couchbase** - The couchbase component allows you to treat CouchBase instances as a producer or consumer of messages.
 - **camel-crypto-cms** - a component for cryptographic message syntax
 - **camel-digitalocean** - The digitalocean component allows you to interact with the Digitalocean cloud
 - **camel-drill** - The drill component gives you the ability to querying to Apache Drill Cluster
 - **camel-elasticsearch5** - to communicate with Elasticsearch Server using 5.x APIs
 - **camel-elasticsearch-rest** - The elasticsearch component is used for interfacing with ElasticSearch server using 5.x REST API.
 - **camel-google-bigquery** - Google BigQuery data warehouse for analytics (not on Apache Karaf).
 - **camel-google-pubsub** - allow you communicate with Google Cloud Pub/Sub
 - **camel-grpc** - The gRPC component is using for calling remote procedures via HTTP/2
 - **camel-headersmap** - a faster implementation of case-insensitive map (used by camel message headers) which can be added to classpath at runtime to be auto installed
 - **camel-iec60870** - to integrate Camel with IEC 60870-5-104 IoT devices
 - **camel-master** - a component that leverage Cluster SPI to ensure that only a single consumer in a camel cluster is active at any point in time.
 - **camel-milo** - An OPC UA client and server component based on Eclipse Milo
 - **camel-mongodb3** - Evolution of the component based on v3 driver. Camel-Mongodb still exists allowing compatibility with the v2 driver.

- **camel-olingo4** - Communicates with OData 4.0 services using Apache Olingo OData API.
- **camel-openstack** - allow you to communicate with an Openstack infrastructure
- **camel-opentracing** - Distributed tracing using OpenTracing
- **camel-pubnub** - To send and receive messages to PubNub data stream network for connected devices.
- **camel-reactor** - a reactor based back-end for camel's reactive streams component
- **camel-rest-swagger** - for accessing REST resources using Swagger specification as configuration
- **camel-sjms2** - JMS 2.0 api compatible component of the SJMS component.
- **camel-spring-cloud** - integrates with Spring Cloud
- **camel-spring-cloud-netflix** - integrates with Spring Cloud Netflix (not on Apache Karaf or JBoss EAP).
- **camel-thrift** - the Thrift component allows to call and expose remote procedures (RPC) with Apache Thrift data format and serialization mechanism
- **camel-tika** - integrates with Apache Tika to extract content and metadata from thousands of file types
- **camel-twilio** - a component that allows you to interact with Twilio REST APIs to call phones, send texts, etc. from a Camel route
- **camel-wordpress** - To integrate Camel with Wordpress (not on JBoss EAP).
- **camel-xchange** - The camel-xchange component provide access to many bitcoin and altcoin exchanges for trading and accessing market data (not on JBoss EAP).
- **camel-yql** - The YQL (Yahoo! Query Language) platform enables you to query, filter, and combine data across the web (not on JBoss EAP).
- **camel-zendesk** - interacts with Zendesk server with using Zendesk Java Client

4.3. IMPORTANT NOTES

Important notes for the Fuse 7.0 release of the Fuse standalone distribution:

Fuse Console (Hawtio) is not remotely accessible by default

In Fuse 7.0, remote access to the Fuse Console is restricted by a Cross-Origin Resource Sharing (CORS) whitelist. By default, the Fuse Console can only be accessed from the local host. To open up access from remote hosts, you need to add hostnames to the CORS whitelist. For more details, see [Managing Fuse](#).

Some Karaf-related components have been removed in 7.0

As part of the consolidation and refactoring of Fuse, a number of components related to the Apache Karaf container have been removed in version 7.0. For more details, see [Chapter 5, Deprecated and Removed Features](#).

4.4. UPGRADING TO FUSE 7.0.1

The Fuse 7.0.1 micro release provides fixes for the issues listed in [Chapter 8, Issues Resolved in Fuse 7.0.1](#).

4.4.1. Upgrading applications to 7.0.1 using the old-style BOM

To upgrade your Fuse standalone applications to use the 7.0.1 dependencies, edit the Maven `pom.xml` and change the versions of the BOMs and Maven plugins listed in the following table:

Table 4.1. Maven BOM and plugin versions for 7.0.1 using the old-style BOM

Container Type	Maven BOM or Plugin Artifact groupId/artifactId	Version for Fuse 7.0.1
Spring Boot	<code>io.fabric8/fabric8-project-bom-camel-spring-boot</code>	<code>3.0.11.fuse-000065-redhat-3</code>
	<code>io.fabric8/fabric8-maven-plugin</code>	<code>3.5.33.fuse-000089-redhat-4</code>
	<code>org.springframework.boot/spring-boot-maven-plugin</code>	<code>1.5.13.RELEASE</code>
Apache Karaf	<code>io.fabric8/fabric8-project-bom-fuse-karaf</code>	<code>3.0.11.fuse-000065-redhat-3</code>
	<code>org.apache.karaf.tooling/karaf-maven-plugin</code>	<code>4.2.0.fuse-000280-redhat-4</code>
JBoss EAP	<code>org.wildfly.camel/wildfly-camel-bom</code>	<code>5.1.0.fuse-000083-redhat-3</code>

4.4.2. Upgrading applications to 7.0.1 using the new-style BOM

To upgrade your Fuse standalone applications to use the 7.0.1 dependencies, edit the Maven `pom.xml` and change the versions of the BOMs and Maven plugins listed in the following table:

Table 4.2. Maven BOM and plugin versions for 7.0.1 using the new-style BOM

Container Type	Maven BOM or Plugin Artifact groupId/artifactId	Version for Fuse 7.0.1
Spring Boot	<code>org.jboss.redhat-fuse/fuse-springboot-bom</code>	<code>7.0.1.fuse-000008-redhat-4</code>
	<code>org.jboss.redhat-fuse/fabric8-maven-plugin</code>	<code>7.0.1.fuse-000008-redhat-4</code>

Container Type	Maven BOM or Plugin Artifact groupId/artifactId	Version for Fuse 7.0.1
	org.jboss.redhat-fuse/spring-boot-maven-plugin	7.0.1.fuse-000008-redhat-4
Apache Karaf	org.jboss.redhat-fuse/fuse-karaf-bom	7.0.1.fuse-000008-redhat-4
	org.jboss.redhat-fuse/karaf-maven-plugin	7.0.1.fuse-000008-redhat-4
JBoss EAP	org.jboss.redhat-fuse/fuse-eap-bom	7.0.1.fuse-000008-redhat-4

For more details about using the new-style BOM, see [Migrate Maven Projects](#) in "Migration Guide".

4.5. BOM FILES FOR FUSE 7.0

To configure your Maven projects to use the supported Fuse 7.0 artifacts, use the BOM versions documented in this section.

4.5.1. Old-style BOM

To upgrade your Fuse standalone applications to use the 7.0 dependencies, edit the Maven **pom.xml** and change the versions of the BOMs and Maven plugins listed in the following table:

Table 4.3. Maven BOM and plugin versions for 7.0 using the old-style BOM

Container Type	Maven BOM or Plugin Artifact groupId/artifactId	Version for Fuse 7.0
Spring Boot	io.fabric8/fabric8-project-bom-camel-spring-boot	3.0.11.fuse-000039-redhat-1
	io.fabric8/fabric8-maven-plugin	3.5.33.fuse-000067-redhat-1
	org.springframework.boot/spring-boot-maven-plugin	1.5.12.RELEASE
Apache Karaf	io.fabric8/fabric8-project-bom-fuse-karaf	3.0.11.fuse-000039-redhat-1
	org.apache.karaf.tooling/karaf-maven-plugin	4.2.0.fuse-000237-redhat-1
JBoss EAP	org.wildfly.camel/wildfly-camel-bom	5.1.0.fuse-000063-redhat-1

4.5.2. New-style BOM

To upgrade your Fuse standalone applications to use the 7.0 dependencies, edit the Maven `pom.xml` and change the versions of the BOMs and Maven plugins listed in the following table:

Table 4.4. Maven BOM and plugin versions for 7.0 using the new-style BOM

Container Type	Maven BOM or Plugin Artifact groupId/artifactId	Version for Fuse 7.0
Spring Boot	<code>org.jboss.redhat-fuse/fuse-springboot-bom</code>	<code>7.0.0.fuse-000027-redhat-1</code>
	<code>org.jboss.redhat-fuse/fabric8-maven-plugin</code>	<code>7.0.0.fuse-000027-redhat-1</code>
	<code>org.jboss.redhat-fuse/spring-boot-maven-plugin</code>	<code>7.0.0.fuse-000027-redhat-1</code>
Apache Karaf	<code>org.jboss.redhat-fuse/fuse-karaf-bom</code>	<code>7.0.0.fuse-000027-redhat-1</code>
	<code>org.jboss.redhat-fuse/karaf-maven-plugin</code>	<code>7.0.0.fuse-000027-redhat-1</code>
JBoss EAP	<code>org.jboss.redhat-fuse/fuse-eap-bom</code>	<code>7.0.0.fuse-000027-redhat-1</code>

For more details about using the new-style BOM, see [Migrate Maven Projects](#) in "Migration Guide".

CHAPTER 5. DEPRECATED AND REMOVED FEATURES

If you need any assistance or have any questions about the upcoming changes in Fuse 7, contact support@redhat.com.

5.1. REMOVED

The following features have been removed in Fuse 7.0:

Support for Red Hat JBoss Operations Network (JON) has been removed in 7.0

Since Fuse 7.0, Fuse on Karaf no longer supports JON and no longer provides JON plugins for integrating with the JON runtime.

Embedded ActiveMQ broker has been removed in 7.0

In Fuse 7.0, Fuse on Karaf no longer provides an embedded ActiveMQ Broker. To migrate your applications to Fuse 7.0, we recommend that you install Red Hat AMQ (Fuse includes an entitlement to Red Hat AMQ) and configure your applications to connect to the broker remotely. For more information on our supported brokers, see the [Supported Configurations](#) page and the [messaging lifecycle](#) page.

Fuse integration pack has been removed in 7.0

Support for running rules and processes is provided by components shipped with Red Hat JBoss BPM Suite and Red Hat JBoss BRMS.

Karaf console commands for child container administration have been removed in 7.0

In Fuse 7.0, the Karaf console commands for child container administration are *not* supported. That is, the console commands prefixed by **instance:** (Karaf 4.x syntax) and the console commands prefixed by **admin:** (Karaf 2.x syntax) are not supported.



NOTE

In the Fuse 7.0 GA release, the **instance:** commands are not blacklisted. This is a known issue.

SwitchYard has been removed in 7.0

In Fuse 7.0, SwitchYard has been removed, and you should use Apache Camel directly instead. For more detailed information, see the knowledge base article, [SwitchYard Support Plan After Releasing Fuse 7](#).

Support for Fabric8 1.x has been removed in 7.0

In Fuse 7.0, Fabric8 v1 has been replaced by Fuse on OpenShift (previously, Fuse Integration Services), which includes components of Fabric8 v2 technology. Fuse on OpenShift provides a set of tools and Docker-formatted images that enable development, deployment, and management of integration microservices within OpenShift.

Although Fuse on OpenShift has a different architecture, it fulfills the same provisioning, automation, central configuration and management requirements that Fabric8 v1 provides. For more information, see [Fuse on OpenShift Guide](#).

Camel components for Google App Engine have been removed in 7.0

The Camel components for Google App Engine (**camel-gae**) have been removed in Fuse 7.0.

Camel jBPM component has been removed in 7.0

The Camel jBPM component (**camel-jbpm**) has been removed in Fuse 7.0.

Tanuki based wrapper for installing Fuse as a service has been removed in 7.0

The Tanuki based wrapper scripts — generated using the `wrapper:install` Karaf console command — for installing Fuse as a service have been removed in Fuse 7.0. To install the Apache Karaf container as a service, it is recommended that you use the new `karaf-service-*.sh` scripts from the `bin/contrib` directory instead.

Smooks has been removed in 7.0

In Fuse 7.0, the Smooks component for SwitchYard has been removed.

BPEL has been removed in 7.0

BPEL (based on the [Riftsaw](#) project) has been removed from Fuse 7.0. If you are currently using BPEL, it is recommended that you consider migrating to the Red Hat JBoss BPM Suite.

Design Time Governance has been removed in 7.0

The Design Time Governance component has been removed in 7.0.

Runtime Governance has been removed in 7.0

In Fuse 7.0, the Runtime Governance (RTGov) component has been removed.

S-RAMP has been removed in 7.0

The SOA Repository Artifact Model and Protocol (S-RAMP) component has been removed in Fuse 7.0.

bin/patch script has been removed in 7.0

The `bin/patch` script (`bin\patch.bat` on Windows O/S) has been removed in a Fuse 7.0.

Spring Dynamic Modules (Spring-DM) is not supported in 7.0

Spring-DM (which integrates Spring XML with the OSGi service layer in Apache Karaf) is not supported in Fuse 7.0 and you should use the Blueprint framework instead. Using Blueprint XML does not prevent you from using the Java libraries from the Spring framework: the latest version of Spring is compatible with Blueprint.

Apache OpenJPA is not supported in 7.0

The [Apache OpenJPA](#) implementation of the Java Persistence API (JPA) is not supported in Fuse 7.0. It is recommended that you use the [Hibernate](#) implementation instead.

5.2. REPLACED

The following features have been replaced in Fuse 7.0:

Geronimo transaction manager has been replaced in 7.0

In Fuse 7.0, the Geronimo transaction manager in the Karaf container has been replaced by [Narayana](#).

Jetty container has been replaced in 7.0

In Fuse 7.0, the Jetty container has been replaced by [Undertow](#). Initially, this change applies only to internal use of the Jetty container (for example, in the Karaf container). Other Jetty components might be removed in a future release.

5.3. DEPRECATED

The following features have been deprecated in Fuse 7.0 and may be removed in a future release:

Camel MQTT component is deprecated

The Camel MQTT component is deprecated in Fuse 7.0 and will be removed in a future release of Fuse.

Camel Netty component is deprecated

The Camel Netty component is deprecated in Fuse 7.0 and will be removed in a future release of Fuse. It is recommended that you use the Camel Netty4 component instead.

Camel LevelDB component is deprecated on all operating systems except for Linux

Since Fuse 6.3, the Camel LevelDB (**camel-leveldb**) component is deprecated on all operating systems except for Red Hat Enterprise Linux. In future, the Camel LevelDB component will be supported only on Red Hat Enterprise Linux.

CHAPTER 6. UNSUPPORTED FEATURES IN FUSE 7.0

The following features are unsupported in Red Hat Fuse 7.0.

APACHE ARIES BLUEPRINT WEB MODULE IS UNSUPPORTED

The Apache Aries [Blueprint Web](#) module is **not** supported in Fuse. The presence of an example featuring Blueprint Web in the community edition of Apache Camel (provided as a separate download) does **not** imply that this feature is supported in Fuse.

THE PHP SCRIPTING LANGUAGE IS NOT SUPPORTED IN APACHE CAMEL

The PHP scripting language is **not** supported in Camel applications on the Apache Karaf container, because there is no OSGi bundle available for PHP.

THE PYTHON SCRIPTING LANGUAGE IS NOT SUPPORTED IN APACHE CAMEL

The Python scripting language is **not** supported in Camel applications on the Apache Karaf container, because there is no OSGi bundle available for Python.

CHAPTER 7. KNOWN ISSUES

The following subsections describe the known issues in version 7.0.

7.1. FUSE ONLINE

The Fuse Online distribution and the Ignite UI have the following known issues:

2587 Cancel has no effect when importing integration

While importing an integration, pressing the **Cancel** button is not effective: the import happens anyway.

1558 "Save as draft" and "Publish" buttons

Both the **Save as draft** button and the **Publish** button remain active, even after a user has clicked on one of the buttons and started stepping through the procedure.

2163 Integration Editor: Save as Draft should display notification on success

After pressing the **Save as Draft** button, there is no success notification when the draft is saved successfully (in the event of an error, on the other hand, there is an error notification).

2561 Create LOGOUT Endpoint

When logout is invoked, it does not reliably clear all of the cookies for Ignite. Each environment with a different authentication provider (for example, RH-SSO or GitHub) presents different symptoms. Basic Authentication seems to be the most reliable, but problems have been reported in Firefox. To avoid problems with stale cookies after logout, it is recommended that you clear the cache of Ignite cookies on your browser after logging out.

2579 Activity Log is inconsistent

The Activity Log is inconsistent due to limited ability to monitor Camel exchanges, which can be altered by any component present in the Integration.

698 DB Connector: SQL parser doesn't recognize parameters for LIKE

In SQL statements containing the **LIKE** keyword (for example, **DELETE FROM TODO WHERE task LIKE ':#param'**), the **LIKE** keyword cannot be used with datamapper parameters, such as **:#param**.

7.2. FUSE ON OPENSIFT

This section lists issues that affect the deployment of Fuse applications on OpenShift. For details of issues affecting specific containers, see also the sections for Spring Boot, Fuse on Apache Karaf, and Fuse on JBoss EAP. The Fuse on OpenShift distribution has the following known issues:

OSFUSE-849 karaf-camel-amq - wrong service amqp name

In the **karaf-camel-amq quickstart**, before running the quickstart with the fabric8 Maven plugin, you must configure the **src/main/fabric8/deployment.yml** file to use the correct remote instance of AMQ EnMasse. The **AMQP_SERVICE_NAME** environment variable must point to the hostname of the external **messaging** route exposed by EnMasse. The quickstart must run on a different OpenShift project from the one where EnMasse is deployed.

OSFUSE-848 karaf-camel-amq - missing log output in Openshift log

The **karaf-camel-amq quickstart** does not emit any output in the OpenShift log console because of an incorrect log configuration. Either delete the **src/main/resources/assembly/etc/org.ops4j.pax.logging.cfg** file to use the default

configuration or provide a log4j2 configuration file (for example, like the one present in the **karaf-camel-log quickstart**).

OSFUSE-718 [OSO][OCP 3.7] f-m-p redeployments failing to deploy

When deploying a Fuse on OpenShift application to OpenShift Container Platform 3.7 using the Fabric8 Maven plugin, you cannot redeploy the application using the command **mvn fabric8:deploy**. That is, the first time you deploy using **mvn fabric8:deploy**, the operation succeeds, but the second (and subsequent attempts) fail silently. The workaround is to undeploy before you redeploy, as follows:

```
mvn fabric8:undeploy
mvn fabric8:deploy
```

7.3. FUSE ON SPRING BOOT

Fuse on Spring Boot has the following known issues:

ENTESB-8118 Netty version alignment

In the Fuse 7.0 GA release, the version of Netty used by the ActiveMQ Artemis client is out of alignment with the version of Netty used by the Camel Netty component. If you use both of these components together in a Spring Boot application, two conflicting versions of Netty will be loaded into the classpath and you are likely to get errors such as **NoSuchMethodError**.

OSFUSE-836 spring-boot-cxf (jaxrs, jaxws) - ClassNotFoundException

In the Fuse 7.0 GA release, the **spring-boot-cxf-jaxrs** and **spring-boot-cxf-jaxws** quickstarts for Fuse on OpenShift raise a **ClassNotFoundException** exception when building the project.

You can fix this error in the **spring-boot-cxf-jaxws** quickstart by editing the project's **pom.xml** file to add the correct version of the **logback-core** dependency, as follows:

```
<dependency>
  <groupId>org.apache.cxf</groupId>
  <artifactId>cxf-spring-boot-starter-jaxws</artifactId>
  <exclusions>
    <exclusion>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-tomcat</artifactId>
    </exclusion>
    <exclusion>
      <groupId>ch.qos.logback</groupId>
      <artifactId>logback-core</artifactId>
    </exclusion>
  </exclusions>
</dependency>
<dependency>
  <groupId>ch.qos.logback</groupId>
  <artifactId>logback-core</artifactId>
  <version>1.1.11</version>
</dependency>
```

You can fix this error in the **spring-boot-cxf-jaxrs** quickstart by editing the project's **pom.xml** file to add the correct version of the **logback-core** dependency and the **guava** dependency version, as follows:

```

<dependency>
  <groupId>org.apache.cxf</groupId>
  <artifactId>cxf-spring-boot-starter-jaxrs</artifactId>
  <exclusions>
    <exclusion>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-tomcat</artifactId>
    </exclusion>
    <exclusion>
      <groupId>ch.qos.logback</groupId>
      <artifactId>logback-core</artifactId>
    </exclusion>
  </exclusions>
</dependency>
<dependency>
  <groupId>ch.qos.logback</groupId>
  <artifactId>logback-core</artifactId>
  <version>1.1.11</version>
</dependency>
...
<dependency>
  <groupId>io.swagger</groupId>
  <artifactId>swagger-jaxrs</artifactId>
  <exclusions>
    <exclusion>
      <groupId>com.google.guava</groupId>
      <artifactId>guava</artifactId>
    </exclusion>
  </exclusions>
</dependency>

<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava</artifactId>
  <version>20.0</version>
</dependency>

```

7.4. FUSE ON ON APACHE KARAF

Fuse on Apache Karaf has the following known issues:

ENTESB-8190 Two artifacts from indy are missing from mrrc, making a couple of features unable to install

In the Fuse 7.0 GA release, the following features cannot be installed in the Apache Karaf container:

```

camel-elasticsearch-rest
camel-hystrix
camel-jcifs
camel-olingo2
camel-olingo4
camel-rx
cxf-http-async
camel-spring-redis
connector

```

-

These features will be made available in a patch release for Fuse 7.0.

ENTESB-8067 Unable to install connector

In the Fuse 7.0 GA release, `feature:install connector` returns an error.

ENTESB-8068 Unable to install camel-spring-redis

In the Fuse 7.0 GA release, `feature:install camel-spring-redis` returns an error.

ENTESB-8085 rxjava-1.3.5.redhat-001 is not an osgi bundle, but rxjava-1.3.5 is

In the Fuse 7.0 GA release, the `camel-hystrix` and `camel-rx` features cannot be installed.

ENTESB-8140 Start level of hot deploy bundles is 80 by default

In the Fuse 7.0 GA release, in the Apache Karaf container the start level of hot deployed bundles is 80 by default. This can cause problems for the hot deployed bundles, because there are many system bundles and features that have the same start level. To work around this problem and ensure that hot deployed bundles start reliably, edit the `etc/org.apache.felix.fileinstall-deploy.cfg` file and change the `felix.fileinstall.start.level` setting as follows:

```
felix.fileinstall.start.level = 90
```

ENTESB-8078 Fuse 7 can't be started on HP-UX

In the Fuse 7.0 GA release, the Apache Karaf container fails to start on the HP-UX platform, reporting the error `karaf: JVM must be greater than 1.8`. To work around this error, edit the `bin/inc` script in your Apache Karaf installation. Replace the following line:

```
VERSION=$(("${JAVA}" -version 2>&1 | grep -i version | sed 's/.*version  
".*\.\.(.*)\..*"/\1/; 1q')
```

With this line:

```
VERSION=$(("${JAVA}" -version 2>&1 | grep -i version | sed 's/.*version "  
[^\._]*\.\.([^\._]*)\..*"/\1/; 1q')
```

ENTESB-8078 Fuse 7 can't be started on HP-UX

In the Fuse 7.0 GA release, the Karaf container cannot be started on the HP-UX platform.

ENTESB-7664 Installing framework-security feature kills karaf

The `framework-security` OSGi feature must be installed using the `--no-auto-refresh` option, otherwise this feature will shut down the Apache Karaf container. For example:

```
feature:install -v --no-auto-refresh framework-security
```

ENTESB-5447 Cannot add openjpa, camel-hbase, or camel-hdfs features to featuresBoot

If you add any of the features, `openjpa`, `camel-hbase`, or `camel-hdfs`, to `featuresBoot` in the `etc/org.apache.karaf.features.cfg` file, this will result in an OSGi wiring error. All of these features are deprecated in any case.

ENTESB-4390 Some quickstarts using SAAJ API fail on IBM JAVA

When using the Apache Karaf container with IBM Java version 1.7.0, the following quickstarts can fail:

- `bean-service`

- **soap-attachment**

With the following error:

```
java.lang.IllegalAccessException: Class
com/sun/org/apache/xerces/internal/dom/ElementImpl illegally
accessing "package private" member of class
com/sun/org/apache/xerces/internal/dom/CoreDocumentImpl
    at
com.sun.org.apache.xerces.internal.dom.ElementImpl.synchronizeData
(ElementImpl.java:1159)
    ...
```

This appears to be a problem with the IBM JDK. You can work around the problem as follows:

- Remove **saaj-api** from endorsed libraries:

```
rm lib/endorsed/org.apache.servicemix.specs.saaj-api-1.3-
2.5.0.jar
```

- Before invoking the **./bin/fuse** script, set the **JAVA_OPTS** environment variable as follows:

```
JAVA_OPTS=-Xshareclasses:none
```

ENTESB-2929 can't install features camel-avro camel-hbase camel-hdfs2

camel-avro, **camel-hbase**, **camel-hdfs2** are not supported on Solaris / AIX. The **camel-hdfs2** feature can only run if you have **libsnappyjava.dylib** in **java.library.path**. You must manually set up **libsnappyjava.dylib** in Fuse before installing these features.

```
JBossFuse:karaf@root> features:info camel-hdfs2
Description of camel-hdfs2 2.15.0.redhat-620133 feature
```

ENTESB-2773 [platform AIX HPUX] camel-leveldb missing native library

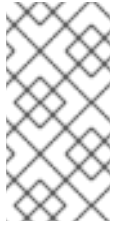
The **camel-leveldb** feature is not supported on IBM AIX and HP-UX operating systems. To use the camel-leveldb feature, Red Hat JBoss Fuse must be run on Red Hat Enterprise Linux, Microsoft Windows Server or Oracle Solaris.

ENTESB-3938 Fuse 6.2.1 takes a long time to start up on OpenStack

When a Fuse container is deployed on RHEL OpenStack Platform, it can take a long time (several minutes) for the container to start up. A workaround is to add the following option to the JVM that starts the container (for example, by setting the **JAVA_OPTS** environment variable):

```
-Djava.security.egd=file:/dev/./urandom
```

The extra dot in the pathname, as in **/./**, is required.

**NOTE**

The effect of the workaround is to replace the default `/dev/random` by `/dev/urandom`. The alternative is faster, but less random than `/dev/random`. This has an impact on any security packages that depend on this device to generate entropy and random numbers.

7.5. APACHE CAMEL

Apache Camel has the following known issues:

ENTESB-8116 camel-weather does not work on CR2

In the Fuse 7.0 GA release, the Camel Weather component does not work.

ENTESB-8088 camel-linkedin: java.lang.SecurityException: Invalid CSRF code

In the Fuse 7.0 GA release, the Camel LinkedIn component does not work. The `camel-linkedin` quickstart is also not working.

ENTESB-7839 [camel-weather] FreeGeolpGeoLocationProvider does not work as expected

The `camel-weather` component fails to connect to the weather service.

ENTESB-7469 Camel Docker component cannot use Unix socket connections on EAP

In Fuse 7.0, the `camel-docker` component can connect to Docker only through its REST API, not through UNIX sockets.

ENTESB-5231 PHP script language does not work

The PHP scripting language is **not** supported in Camel applications on the Apache Karaf container, because there is no OSGi bundle available for PHP.

ENTESB-5232 Python language does not work

The Python scripting language is **not** supported in Camel applications on the Apache Karaf container, because there is no OSGi bundle available for Python.

ENTESB-2443 Google Mail API - Sending of messages and drafts is not synchronous

When you send a message or draft, the response contains a Message object with an ID. It may not be possible to immediately get this message via another call to the API. You may have to wait and retry the call.

ENTESB-2458 Google Mail Component - Import of message throws sometimes SocketTimeoutException

Importing a message may throw a `java.net.SocketTimeoutException` if the send operation was called before. Workaround: After a send call wait for few moments before calling import.

ENTESB-2365 Google Drive API bug - Response of permission insert operation mostly does not contain emailAddress property

Response of permission insert operation sometimes does not return `emailAddress` property even if the value of request property type was set to user. Nevertheless the permission is successfully inserted.

ENTESB-2332 Google Drive API JSON response for changes returns bad count of items for the first page

Google Drive API JSON response for changes returns bad count of items for the first page. Setting `maxResults` for a list operation may not return all the results in the first page. You may have to go through several pages to get the complete list (that is by setting `pageToken` on new requests).

CHAPTER 8. ISSUES RESOLVED IN FUSE 7.0.1

The following table lists the Apache Karaf container issues that are resolved in Fuse 7.0.1.

Table 8.1. Issues resolved in Fuse 7.0.1

Issue	Description
ENTESB-9178	Hawtio:osgi:Bundles: When you stop any bundle fuse will crash.
ENTESB-9155	Features are not reinstalled after patching from 7.0 to 7.0.1
ENTESB-9145	Karaf - Warning - failed to parse and instantiate of javax.servlet.ServletContainerInitializer in classpath
ENTESB-9144	camel websocket - java.lang.ClassCastException: org.eclipse.jetty.util.DecoratedObjectFactory
ENTESB-9119	Update fuse-ignite-upgrade image to address RHSA-2018:1957
ENTESB-9073	"Weird behavior when ending a command with "", { or \ and hitting enter"
ENTESB-9066	JLine may be used instead of AEsh when reinstalling features
ENTESB-8982	Update Fuse entries in Openshift Catalog
ENTESB-8735	CVE-2018-1000129 jolokia-core: jolokia: Cross site scripting in the HTTP servlet [fis-2.0]
ENTESB-8573	CVE-2017-7536 hibernate-validator: Privilege escalation when running under the security manager [fis-2.0]
ENTESB-8534	CVE-2018-1000130 jolokia-core: jolokia: JMX proxy mode vulnerable to remote code execution [fis-2.0]
ENTESB-8225	Console unusable in docker
ENTESB-8224	"NullPointerException in AEsh - with ""j"""
ENTESB-8212	maven-bundle-plugin fails to parse meta-persistence
ENTESB-8203	update Label for Fuse Console image
ENTESB-8191	AEsh keys broken with bin/client
ENTESB-8190	Several artifacts from indy are missing from mrrc, making a couple of features unable to install
ENTESB-8185	Backport CAMEL-12514

Issue	Description
ENTESB-8174	Upgrade to Spring Boot 1.5.13
ENTESB-8169	Swapped parameters in <code>HttpServiceProxy.registerConstraintMapping</code>
ENTESB-8166	Update to latest wsdl2rest for Fuse 7.0.1
ENTESB-8161	<code>NullPointerException</code> in <code>Æsh</code>
ENTESB-8152	Update existing fuse launcher boosters with GA versions of images and dependencies
ENTESB-8138	Backport CXF-7737
ENTESB-8137	Pax web upgrade
ENTESB-8118	Netty version alignment
ENTESB-8116	camel-weather does not work on CR2
ENTESB-8079	New API for authentication needed on Pax-Web
ENTESB-8078	Fuse 7 can't be started on HP-UX
ENTESB-8073	Missing dependencies in <code>cxf-parent</code>
ENTESB-8042	Enhance the Fuse / KeyCloak integration for CXF / Camel
ENTESB-7952	CVE-2018-1274 spring-data-commons: Unlimited path depth in <code>PropertyPath.java</code> allow remote attackers to cause a denial of service [fuse-7.0.0]
ENTESB-7951	CVE-2018-1273 spring-data-commons: Improper neutralization of special elements allow remote attackers to execute code via crafted requests [fuse-7.0.0]
ENTESB-7926	Update FIS image version in <code>spring-boot-camel-xml</code> quickstart
ENTESB-7705	Deadlock while using <code>bundle:list</code> or <code>bundle:headers</code>

CHAPTER 9. ISSUES RESOLVED IN FUSE 7.0

The following sections list the issues that have been resolved in Fuse 7.0:

- [Section 9.1, “Apache Karaf container issues resolved in Fuse 7.0”](#)
- [Section 9.2, “Apache Camel issues resolved in Fuse 7.0”](#)
- [Section 9.3, “Apache Camel on EAP \(Wildfly\) issues resolved in Fuse 7.0”](#)
- [Section 9.4, “Apache CXF issues resolved in Fuse 7.0”](#)
- [Section 9.5, “Fuse Console \(Hawtio\) issues resolved in Fuse 7.0”](#)
- [Section 9.6, “Fuse on OpenShift issues resolved in Fuse 7.0”](#)

9.1. APACHE KARAF CONTAINER ISSUES RESOLVED IN FUSE 7.0

The following table lists the Apache Karaf container issues that are resolved in Fuse 7.0.

Table 9.1. Apache Karaf container issues resolved

Issue	Description
ENTESB-3684	New changes are not getting reflected If Switchyard Quickstart are modified and deployed to Fuse 6.2.
ENTESB-4430	Missing explicit RBAC policies either in Standalone or in Fabric\$
ENTESB-4548	Log jolokia HTTP requests/responses
ENTESB-4549	Simplify RBAC roles: Pick either EAP or Karaf model
ENTESB-5066	Test transaction recovery
ENTESB-6712	Investigate switching JLine to Aesh in Karaf kit
ENTESB-6747	Make SSHD server threads configurable
ENTESB-7110	Include Hibernate PostgreSQL Dialect for 9.x
ENTESB-7138	Change winsw version in Karaf to redhat build.
ENTESB-7173	Æsh problems under Windows
ENTESB-7200	Add licenses to Karaf’s top-level pom file.
ENTESB-7226	karaf command history lost each time restart the fuse karaf kit
ENTESB-7250	Fuse 7 should provide features command

Issue	Description
ENTESB-7255	when shutdown karaf, see java.io.InterruptedIOException: null in the log
ENTESB-7272	shutdown cmd cause NPE
ENTESB-7376	JAX-RS Async feature does not work in Karaf 4/Undertow/XNIO
ENTESB-7402	keymap: no such keymap `main' logged after starting karaf
ENTESB-7403	Repeating command with !<number> throws String index out of range and shuts down karaf
ENTESB-7410	"Up" arrow to repeat last command returns a penultimate command every 2nd try
ENTESB-7539	Not unified style of acl permissions in some files
ENTESB-7540	Review hawtio configuration in etc/system.properties
ENTESB-7541	should add hawtio enabled roles in Karaf kit
ENTESB-7565	shutdown command return null pointer exception
ENTESB-7591	NoClassDefFoundError running fuse/bin/client
ENTESB-7612	feature:install of multiple features seem to kill karaf console
ENTESB-7624	Viewer can invoke bundle:info, but can't get info of any bundle
ENTESB-7627	camel:backlog-tracer-* commands defined in org.apache.karaf.command.acl.camel.cfg do not exist
ENTESB-7635	Discrepancy in bundle:start-level command and jmx ACL
ENTESB-7693	Typo in jmx.acl.org.apache.karaf.system.cfg rebootCleanAll
ENTESB-7705	Deadlock while using bundle:list or bundle:headers
ENTESB-7715	When karaf asks "Display all 645 possibilities?" you cant confirm/cancel with y/n
ENTESB-7819	Unable to execute bin/shell
ENTESB-7829	Remove unsupported feature repositories from Karaf repo
ENTESB-7844	Move etc/jmx.acl.* files into etc/auth/

Issue	Description
ENTESB-7900	camel:route-show does not work on IBM java
ENTESB-7916	Æsh history broken
ENTESB-7941	Karaf child instance can't find jolokia-access.xml file
ENTESB-7954	Unable to execute aliases through bin/client
ENTESB-8005	Add BouncyCastle libraries to Fuse 7 distro
ENTESB-8048	Fuse 7 can't be started on Solaris 11, Aix 7.2
KARAF-1001	Consistency between command annotation and blueprint
KARAF-1002	Switch the blueprint extender to synchronous mode
KARAF-1003	Karaf fails to start on a linux 32 bit system who's libc version is 2.3.4.
KARAF-1004	Introduce paxexam-karaf into karaf tooling
KARAF-1005	Port current karaf integration tests to new test framework
KARAF-1006	Port current kittests to newly added integration test framework
KARAF-1007	Include paxexam-karaf testframework documentation into the manual
KARAF-1009	equinox Region support
KARAF-1010	Add 64Bit ServiceWrapper to karaf
KARAF-1013	Less verbose in log when mistyped commands at INFO level
KARAF-1014	Make files specified by \${includes} optional
KARAF-1015	ConfigMBean should use a different config pid than the config shell
KARAF-1017	Use the Pax Web features.xml for Pax Web 2.0 and further
KARAF-1019	Set java memory options only when required
KARAF-1020	BundleWatcher should look for SNAPSHOT
KARAF-1021	karaf-maven-plugin does not prefix non-bundles with the wrap: prefix when generating a feature.xml

Issue	Description
KARAF-1022	java.io.tmpdir system property should use \$KARAF_DATA/tmp in place of \$KARAF_BASE/tmp
KARAF-1023	Add karaf activators for jars in the lib folder
KARAF-1024	Bug generating feature.xml when dependency has no manifest
KARAF-1025	Explicit Property Name in Karaf System Console
KARAF-1028	Upgrade to Felix Framework 4.0.2
KARAF-1029	Add completer support on option values
KARAF-1030	Grep command breaks existing line forming
KARAF-1031	Performance issue in the features jaxb support
KARAF-1032	Text improvements to Features XSD
KARAF-1033	Set the Features validation optional
KARAF-1035	Allow Karaf config commands to accept the pid as an option
KARAF-1036	Some MBeans don't provide attribute correctly
KARAF-1039	Rename the org.apache.felix.gogo.commands package to org.apache.karaf.shell.commands
KARAF-1040	Commands should not catch exceptions but should rethrow them
KARAF-1041	create-kar goal should handle configfile
KARAF-1042	Upgrade to jline 2.6
KARAF-1045	Improved help system
KARAF-1048	make pom.xml eclipse 3.7 m2e friendly
KARAF-1051	addcommand / removecommand / eval should be in the shell scope
KARAF-1053	Removed unused folders/code from Assemblies
KARAF-1054	Setup eclipse targets now deprecated assembly folder.
KARAF-1055	New bundle:capabilities and bundle:requirements commands

Issue	Description
KARAF-1057	Update the list of supported execution environments
KARAF-1064	BootstrapLogManager does not reuse the instantiated Handler
KARAF-1065	TextDumpProvider.createDump(DumpDestination) does not flush OutputStreamWriter
KARAF-1066	make features xml parser more forgiving
KARAF-1067	JDK7 compile issues with OsgiCommandSupport
KARAF-1068	Multiple blueprint plans using command namespace result in multiple converter registrations
KARAF-1069	create a ServerInfo service that Main sets up that exposes karaf home, base, data, instances, and the command line arguments
KARAF-1071	Cursor keys do not work in Karaf shell on windows
KARAF-1072	Provide man command as an alias to help
KARAF-1073	Add -r (reboot) and -h (halt) options to the system:shutdown command
KARAF-1075	pid is set as the factorypid when creating a factory configuration instance from the feature file
KARAF-1077	New service:list command focused on services instead of bundles
KARAF-1080	Spring feature repo for spring related features
KARAF-1086	Create Kar for Karaf demos
KARAF-1087	kar archetype
KARAF-1088	assembly archetype
KARAF-1090	deployers feature for fileinstall deployers that used to be in full profile
KARAF-1091	Upgrade maven bundle plugin to 2.3.6
KARAF-1092	Upgrade to Jasypt 1.8
KARAF-1094	Refactor Karaf Demos to new assemblies format
KARAF-1095	Update Branding Shell demo

Issue	Description
KARAF-1096	Update Custom Command demo
KARAF-1097	Update Kar documentation
KARAF-1098	Update Dump Provider demo
KARAF-1099	Update Web demo
KARAF-1101	Completion does not work when quiesce manager is deployed
KARAF-1106	Jetty feature should use ServiceMix Spec for activation
KARAF-1107	Karaf should use directly commons-* bundles
KARAF-1109	Provide archetypes for bundle, bundle-blueprint, web-bundle, war
KARAF-1111	Add documentation about archetypes
KARAF-1112	shell:sleep should be in seconds
KARAF-1113	Add a web:launch command
KARAF-1114	osgi shell blueprint bundle shouldn't use lazy default-activation
KARAF-1115	Add a jre.properties.cxf with all changes required to run cxf
KARAF-1117	Log messages appear on stdout when the feature http is installed
KARAF-1119	expose rmiregistry port as a service property
KARAF-1120	Upgrade to Spring 3.1.0.RELEASE
KARAF-1122	Feature <configfile/> creates an empty file if the file URL is not resolved
KARAF-1124	karaf does not work properly with closing brace in the working directory path
KARAF-1126	features-maven-plugin:validate goal raises a NPE if karafConfig configuration is not set
KARAF-1129	Allow configuring rmi Registry host as well as port
KARAF-1131	Remove PackageMBean and move operation to BundleMBean
KARAF-1132	Introduce new command feature:chooseurl to make it easy to install well known feature files

Issue	Description
KARAF-1133	Error executing command 'start' when starting a child instance
KARAF-1135	Upgrade pax exam to 2.4.0
KARAF-1136	Rationalize Karaf 3.0 minimal distribution
KARAF-1137	Corrupted output for bundle:info command in 3.0.0-SNAPSHOT
KARAF-1139	Redeploy kar cause installing old feature
KARAF-1140	config:list has NPE since it uses a service after ungetting the service reference
KARAF-1141	Add jetty-websocket dependency for karaf standard features file
KARAF-1142	Get rid of the code using StartLevel and PackageAdmin has they are now deprecated
KARAF-1143	Karaf (Config Mbean) can not recognize the features when Karaf installation path containing blank space
KARAF-1144	When running a single remote command through SSH, the SCOPE variable isn't set
KARAF-1145	Upgrade to pax-logging 1.6.4
KARAF-1150	admin:create command creates broken org.ops4j.pax.url.mvn.cfg file
KARAF-1154	Upgrade to eventadmin 1.2.14
KARAF-1155	Upgrade to Apache POM 10
KARAF-1158	Karaf trunk fails to build on a clean repo
KARAF-1159	Region support should be part of karaf-features-1.1.0.xsd
KARAF-1161	The shell:new action does not support the creation of arrays
KARAF-1162	A command that can not be loaded breaks the whole completion
KARAF-1163	Upgrade to Guava 11.0.1
KARAF-1169	Support for hidden features
KARAF-1172	Upgrade to Aries JNDI API 1.0.0

Issue	Description
KARAF-1175	Duplicate key exception should be handle locally to avoid to affect the whole MBean
KARAF-1177	Upgrade to standalone tinybundle 1.0.0
KARAF-1178	OBR feature doesn't work
KARAF-1179	"dev:watch *" doesn't notice new bundles added to the container
KARAF-1183	Upgrade to slf4j 1.6.4
KARAF-1184	Upgrade to JUnit 4.10
KARAF-1185	Upgrade to Pax Logging 1.6.5
KARAF-1186	Provide a migration/update section in the manual
KARAF-1191	Switch back to millis per default on shell:sleep and introduce -s option
KARAF-1192	Upgrade to pax-web 2.0.0
KARAF-1193	Upgrade to pax-url 1.4.0.RC1
KARAF-1196	implement a 'watch' command so we can watch the output of a karaf command like the unix 'watch' mechanism
KARAF-1197	AdminService - Allow to provide a PrintStream so you can capture or control activity on the console
KARAF-1198	Add Maven repository metadata in the system repository
KARAF-1199	dev:watch command issues "[WATCH]" announcements only to the issuing shell
KARAF-1201	Update jline groupid in main pom and shell/console/pom
KARAF-1203	Make invoker in karaf testcontainer configurable
KARAF-1205	Upgrade to maven-bundle-plugin 2.3.7
KARAF-1206	Child instance doesn't start
KARAF-1207	Karaf tooling exam regression tests failing on NoSuchMethodError com.google.common.io.Files.deleteRecursively
KARAF-1209	ServiceRecipe blueprint exception in the log

Issue	Description
KARAF-1212	NPE during update of the FeatureFinder
KARAF-1213	Add option to configure BundleStartLvl of automatically installed base bundles
KARAF-1214	Improvement in Karaf log4j appender docs
KARAF-1215	Shell scripts are incompatible with /bin/sh on Solaris
KARAF-1216	add-features-to-repo goal does not reclaim file handles fast enough
KARAF-1219	Assemblies ignore some resources
KARAF-1220	o.p.karaf.management bundles must stop when its configured keystore is not available
KARAF-1222	System shell hangs after karaf integration tests had been run
KARAF-1223	Support mvn:* urls in karaf-maven-plugin:features-create-kar
KARAF-1224	Upgrade to Spring 3.1.1.RELEASE
KARAF-1225	Manual build fails
KARAF-1226	Karaf Client cannot run a script
KARAF-1228	application-without-isolation enterprise feature doesn't install
KARAF-1230	Upgrade to jansi 1.8
KARAF-1231	Upgrade to EasyMock 3.1
KARAF-1232	Upgrade to Jasypt 1.9.0
KARAF-1233	Upgrade to asm 3.3.1
KARAF-1242	org.apache.karaf.scr.command format error
KARAF-1243	Karaf JMX Config MBean behaves in unpredictable ways
KARAF-1244	Deployer Transformers Supports Manifest Element without A Supporting Schema
KARAF-1245	blueprint deployer and spring deployer should get started before features.core bundle
KARAF-1246	add a version checker for karaf start script

Issue	Description
KARAF-1247	maven-metadata-local.xml is not generated for bundles from a boot feature
KARAF-1252	Features core bundle should not depend to shell and management bundles
KARAF-1256	Archetypes should use dynamic variables
KARAF-1257	Configuration completers should avoid using getConfiguration method of config admin
KARAF-1258	Upgrade to Jetty 8.1.4
KARAF-1259	Upgrade to pax-url 1.4.0
KARAF-1261	Jaas commands should allow you to distinguish between realms that have the same name
KARAF-1262	Reintroduce package:* modules
KARAF-1265	Add AIX, HP-UX, Solaris, and \"custom\" support in the service wrapper
KARAF-1267	Align Pax-web features with std. features
KARAF-1269	aries-annotation feature doesn't install
KARAF-1270	Allow multiple commands in karaf 3.0.x bin/karaf script
KARAF-1271	Feature service should log in DEBUG instead of INFO
KARAF-1272	Upgrade to fileinstall 3.2.0
KARAF-1274	Please set svn:ignore to all eclipse's project files
KARAF-1275	Refactor bundle modules into core, command, management
KARAF-1277	Features deployer is not in the startup.properties
KARAF-1281	New table support for shell
KARAF-1282	Remove osgi sources from karaf main
KARAF-1285	Karaf 3.x - Karaf bundle archetype maven bundle plugin configuration is missing \"instructions\" tags.
KARAF-1287	Check documentation consistent

Issue	Description
KARAF-1289	Move the standard feature definition to the feature.xml
KARAF-129	Support for upgrading from one version of a feature to another version of the same feature
KARAF-1293	feature level start-level not completely finished....
KARAF-1295	serviceUrl in org.apache.karaf.management.cfg should use 0.0.0.0 but not localhost
KARAF-1296	Karaf startup without startup.properties
KARAF-1298	dev:watch does not work in some cases
KARAF-1299	Make sure that all karaf archetype contain a description
KARAF-1300	features managment should be more robust if customer features descriptor file has duplicated feature name
KARAF-1302	Replace MBeanRegistrer with aries jmx whiteboard and remove .management modules
KARAF-1304	Quick help text for features:info command is erroneous
KARAF-1305	Error with Basic HTTP Authentication when using karaf realm
KARAF-1307	Refactor http command and mbean to new module layout and change to use jmx whiteboard
KARAF-1318	User bundles are treated as system bundles
KARAF-132	The user name for the main console session is always \"karaf\"
KARAF-1327	Client: can't execute alias command
KARAF-1328	jclouds feature repo url has been changed after version 1.0
KARAF-1331	Source distribution is missing
KARAF-1334	Use the new servicemix spec to allow the use of both the JRE implementations and implementations from bundles
KARAF-1343	Features repo points to the old pax-wicket app
KARAF-1346	Upgrade to Mina 2.0.4

Issue	Description
KARAF-1354	SSH Log-In failes with \"Authentication failed\" with valid credentials
KARAF-1360	Configuration update doesn't work
KARAF-1362	Karaf web console does not work on tabs features, http and instance
KARAF-1367	Remove line number logging from default logging config
KARAF-1370	Loading snapshots from local repository does not work and the system dir should be read only
KARAF-1374	Fileinstaller logging by default is not enabled.
KARAF-1378	Upgrade to fileinstall 3.2.2
KARAF-1380	Add a command to easily name an instance
KARAF-1383	Fix warning messages during bundle build
KARAF-1385	Be able to disable the default PropertiesLoginModule
KARAF-1388	SSHD authorized key provider should log in DEBUG
KARAF-1389	SSH doesn't correctly use the karaf.base variable
KARAF-1390	Embedded features should have POM dependencies on the projects they represent
KARAF-1391	Top-level build is missing obr module
KARAF-1392	Removing a KAR should uninstall the shipped features
KARAF-1393	Rename commands module to command
KARAF-1396	config:list command description should be enhanced
KARAF-1402	Order in test framework generated features.xml is wrong
KARAF-1406	scanFeatures is incompatible with editing the etc/org.apache.karaf.features.cfg file
KARAF-1407	Use useDeployFolder(false) together with scan features fail
KARAF-1410	Error in stop script if KARAF_DEBUG is enabled
KARAF-1416	Blueprint archetype instructions is missing

Issue	Description
KARAF-1418	Instance command imports an internal package from instance core
KARAF-1427	Split shell console into API and impl
KARAF-1430	Default child instance config is not the same as the root instance
KARAF-1432	karaf:features-validate-descriptor parses system packages incorrectly
KARAF-1438	Simplify imports in bundle plugin for deployers
KARAF-1439	Re-add demos to Karaf 3.0 kits
KARAF-1442	Port deployer bundle demo to Karaf 3.0
KARAF-1444	Rename shell.shell to shell.commands.impl and make packages private
KARAF-1445	more svn:ignore are needed
KARAF-1446	Move help system and table out of console into separate modules
KARAF-1447	Make the three big (cxf, amq, camel) play nicely with Karaf 3 without change
KARAF-1448	diag command should print the full stacktrace instead of the messages only
KARAF-1449	The InstallKarMojo fails with a nullpointer if an artifact could not be retrieved
KARAF-1450	System bundles could be started without problems; all other bundles need to be forced
KARAF-1452	karaf-maven-plugin does not compile using java7
KARAF-1456	Upgrade to blueprint 1.0.0
KARAF-1457	Revert Aries JMX Update on SCR Management Component
KARAF-1458	Upgrade to ServiceMix Specs 2.0
KARAF-1462	Improvements to shell tables
KARAF-1468	Use the geronimo servlet spec instead of jetty' since it's backward compatible
KARAF-1470	Cleanup: Remove no longer required org.apache.karaf.tooling.testing project
KARAF-1471	Use project.version instead of direct version in manual

Issue	Description
KARAF-1472	Karaf manual references wrong artifacts
KARAF-1475	Support SSH agent forwarding and use the agent authentication when connecting to other instances
KARAF-1482	NullPointerException when deploying a feature without specified <code>"install"</code> -attribute
KARAF-1483	Help generation does not work for commands without noargs constructor
KARAF-1485	Use ShellTable in bundle:list
KARAF-1489	Add an itest showing how to correctly use tinybundles with provision in paxexam-karaf
KARAF-1490	upgrade to pax-logging 1.6.7
KARAF-1491	Admin service not able to start child instances when the JDK path contains a space on OS X
KARAF-1496	Bad login when using sufficient modules but when the first fail
KARAF-1499	InfoAction shell command should sort the properties from InfoProvider instances
KARAF-1500	Forgot a space between hours and minutes in InfoAction.java
KARAF-1502	Consolidate the feature commands about feature repositories
KARAF-1506	Check host keys when connecting to an ssh server using bin/client and ssh:ssh
KARAF-1509	Allow one step maven build by not using the lifecycle extension of the karaf-maven-plugin
KARAF-1510	Deployer kar demo Jenkins build issue
KARAF-1511	Nullpointer exception when typing help test
KARAF-1513	SSH keystore incompatible if generated with IBM JDK
KARAF-1514	Improve feature file generation to be able to create features out of special feature poms
KARAF-1515	features-generate-descriptor does not set the version in generated features
KARAF-1517	Upgrade to OSGi Compendium 4.3.0

Issue	Description
KARAF-1520	Upgrade to Jansi 1.9
KARAF-1521	add-features-to-repo goal should define a correct default value for repository
KARAF-1522	Test failures in tooling/exam/regression
KARAF-1524	Support creating a kar from the console
KARAF-1526	Upgrade to pax-url 1.4.2
KARAF-1528	Web:List command not working anymore
KARAF-1529	command-watch messes the output when used with commands that take longer than the interval
KARAF-1531	Upgrade to Felix ConfigAdmin 1.4.0
KARAF-1532	packing with karaf-assembly error
KARAF-1533	Add integration tests for karaf-maven-plugin:features-generate-descriptor
KARAF-1534	Upgrade to JLine 2.7
KARAF-1535	Upgrade to Felix Utils 1.2.0
KARAF-1536	Upgrade to Felix FileInstall 3.2.4
KARAF-1537	Additional integration tests for karaf-maven-plugin
KARAF-1539	kar feature should a boot one
KARAF-1541	jaas:realm-manage raises a NullPointerException
KARAF-1544	Several bugs in main around locking
KARAF-1545	Jar files in lib directory require \"karaf-\" prefix in order to be loaded
KARAF-1546	Add -i/--install-all option to feature:add-url
KARAF-1549	Child instance features cfg file looks weird
KARAF-1551	Kar service should not install the kar contents into the system dir
KARAF-1552	Support kars that will not be auto started

Issue	Description
KARAF-1553	Command service references should be AUTO_EXPORT_INTERFACES
KARAF-1556	standard-feature refers to non-existing \"commands\"-artifacts
KARAF-1558	Instance clone should be able to clone the root instance
KARAF-1559	Demos should be included in the distro but not in the repository list
KARAF-1561	Restart Framework from Web Console's System Information tab results in Karaf dying
KARAF-1562	Improve message displayed when the JAAS login module doesn't have a backing engine
KARAF-1563	Support clean-all & clean-cache directly in karaf main jar
KARAF-1564	karaf feature validate plugin should support to load the exports packages from dependency features
KARAF-1565	Clone operation should be provided by the instance MBean
KARAF-1566	instance:clone set the source instance in error
KARAF-1567	Upgrade to pax-web 2.0.1
KARAF-1568	Upgrade to sshd 0.7.0
KARAF-1570	Upgrade maven-external-dependency-plugin to 0.5
KARAF-1571	InstallKarsMojo fails to compile with jdk-7
KARAF-1572	JDBC Lock without using long running transactions
KARAF-1574	When two karaf containers are started locally, an exception is displayed at startup. A nicer message would be better.
KARAF-1577	Upgrade to slf4j 1.6.6
KARAF-1578	Upgrade to pax-logging 1.6.9
KARAF-1579	Upgrade to commons-compress 1.4.1
KARAF-1580	Demo should exclude Eclipse and IntelliJ IDEA files
KARAF-1581	Upgrade to commons-jexl 2.1.1

Issue	Description
KARAF-1582	Upgrade to Felix BundleRepository 1.6.6
KARAF-1583	karaf-maven-plugin ignores dependency on feature
KARAF-1585	Installing using wrap protocol fails when specifying bundle version
KARAF-1586	wrapper:install command should be usable outside OSGi too
KARAF-1587	When executing a command through the client, no error is printed in the console in case of errors
KARAF-1591	Upgrade to XBean 3.11.1
KARAF-1593	Pressing strg+d during log:tail make everything hang
KARAF-1596	Karaf pom still refers geronimo-spec 1.0 whereas 1.1 is in use
KARAF-1597	Upgrade to geronimo-jaspic 1.1
KARAF-1598	Upgrade to pax-runner 1.7.6
KARAF-1599	Upgrade to pax-swissbox 1.5.1
KARAF-1600	Avoid duplicate feature and bundle resolution when installing cascading features
KARAF-1601	Upgrade to maven-antrun-plugin 1.7
KARAF-1603	Upgrade to maven-surefire-plugin 2.12
KARAF-1604	Upgrade to maven-assembly-plugin 2.3
KARAF-1606	Upgrade to maven-compiler-plugin 2.5.1
KARAF-1607	Move dev commands and services to bundle, system and shell
KARAF-1608	Upgrade to maven-dependency-plugin 2.4
KARAF-1609	command-watch info does not work
KARAF-1610	Upgrade to maven-eclipse-plugin 2.9
KARAF-1611	Upgrade to maven-enforcer-plugin 1.1
KARAF-1613	Upgrade to maven-jar-plugin 2.4

Issue	Description
KARAF-1615	Upgrade to maven-javadoc-plugin 2.8.1
KARAF-1616	Upgrade to maven-release-plugin 2.3.2
KARAF-1617	Blueprint deployer in combination with maven URL deployer creates wrong OSGi/blueprint/ file
KARAF-1619	Upgrade to maven-remote-resources-plugin 1.3
KARAF-1620	Upgrade to maven-shade-plugin 1.7
KARAF-1621	Upgrade to maven-site-plugin 3.1
KARAF-1622	Upgrade to maven-war-plugin 2.2
KARAF-1623	Upgrade to apache-rat-plugin 0.8
KARAF-1624	Rat checks fail
KARAF-1628	Make client indepenent of console
KARAF-1629	Command completer should complete only on first scope level
KARAF-1630	Upgrade to Aries Util 1.0.0
KARAF-1631	Upgrade to Aries Blueprint API 1.0.0
KARAF-1632	Upgrade to Aries JMX API 1.0.0
KARAF-1633	Description of rmiRegistryPort and rmiServerPort in org.apache.karaf.management.cfg file are the same
KARAF-1634	Upgrade to Felix Framework 4.0.3
KARAF-1635	config.properties should be filtered
KARAF-1636	Upgrade to Equinox 3.8
KARAF-1640	Make sure the local console is fully working before the user can type commands
KARAF-1641	Avoid embedding jline in the console
KARAF-1642	Upgrade to exec-maven-plugin 1.2.1
KARAF-1643	Upgrade to jaxb2-maven-plugin 1.3.1

Issue	Description
KARAF-1644	Upgrade to Aries JNDI API 1.0.0
KARAF-1646	Upgrade to Pax Web 2.0.2
KARAF-1649	Upgrade to Aries JPA API 1.0.0
KARAF-1650	Upgrade to Aries Blueprint Annotation API 1.0.0
KARAF-1651	Upgrade to Aries JMX Blueprint API 1.0.0
KARAF-1652	Upgrade to Aries JMX Core 1.0.0
KARAF-1653	Upgrade to Aries JNDI Core 1.0.0
KARAF-1654	Upgrade to Aries Proxy API 1.0.0
KARAF-1655	ManagementCfg configuratoinPointers in tooling-exam are incorrect
KARAF-1656	use quiesce API 1.0.0 final instead of 1.0.1-SNAPSHOT
KARAF-1657	org.ops4j.pax.url.mvn.proxySupport=false
KARAF-1658	Upgrade to Aries JMX 1.0.0
KARAF-1659	Use dependencyManagement in features assemblies
KARAF-1660	Upgrade Aries Application API to 1.0.0
KARAF-1661	Upgrade Aries Application Utils to 1.0.0
KARAF-1662	Upgrade Aries Proxy Impl to 1.0.0
KARAF-1663	Upgrade Aries transaction manager to 1.0.0
KARAF-1665	Upgrade Aries JNDI rmi to 1.0.0
KARAF-1666	Default configuration for jetty.xml could create problems
KARAF-1668	Upgrade blueprint core to 1.0.0
KARAF-1669	Upgrade Aries Application to 1.0.0
KARAF-1670	Upgrade Aries Application Management to 1.0.0

Issue	Description
KARAF-1671	Upgrade Aries Application Modeller to 1.0.0
KARAF-1672	Upgrade Aries Application Deployment 1.0.0
KARAF-1673	Upgrade to Aries JPA Blueprint 1.0.0
KARAF-1675	Wrapper service requires a shell
KARAF-1676	OBR URL's in Karaf have no simple identifier
KARAF-1677	Unpacked KAR deployment
KARAF-1683	"no matching cipher found" error connecting via SSH to wrapper Karaf service - on Ubuntu
KARAF-1685	Upgrade to Aries Blueprint Annotation Impl 1.0.0
KARAF-1686	Upgrade to Aries Blueprint CM 1.0.0
KARAF-1687	Upgrade to Aries Blueprint Core Compatibility 1.0.0
KARAF-1688	Upgrade to Aries Blueprint JEXL Evaluator 1.0.0
KARAF-1689	Upgrade to Aries JNDI URL 1.0.0
KARAF-1690	Upgrade to Aries Transaction Wrappers 1.0.0
KARAF-1691	Remove Aries Quiesce dependencies
KARAF-1693	Rename command-watch to watch
KARAF-1695	startup fails on Windows with only JRE installed
KARAF-1696	Upgrade to Spring 3.1.2.RELEASE
KARAF-1699	MBeans should support the same flags as the commands
KARAF-1700	update manual to reflect JDBC Lock updates
KARAF-1702	Stopping the console bundle should not shutdown the osgi framework
KARAF-1704	Upgrade to Aries Transaction Blueprint 1.0.0
KARAF-1705	Sync features between 2.3 and trunk

Issue	Description
KARAF-1710	Remove @version headers from source
KARAF-1711	Upgrade to pax-web 2.1.0
KARAF-1712	Use Pax-Web Features
KARAF-1713	Build failure at manual module
KARAF-1718	Add support for support for conditional bundle and feature definition inside features
KARAF-1719	Upgrade to javax.mail 1.4.5
KARAF-1722	Upgrade to Aries JMX Blueprint Core 1.0.1
KARAF-1723	Provide meaningful thread names for karaf console
KARAF-1728	BundleException: Bundle installation rejected by hook. error when installing from features XML file
KARAF-1729	Cannot uninstall bundle, bundle xx is invalid
KARAF-1732	Upgrade to ServiceMix Ant bundle 1.8.4_1
KARAF-1733	Upgrade to ServiceMix aopalliance bundle 1.0_6
KARAF-1734	When logging into karaf with ssh as user karaf the prompt shows admin@root
KARAF-1736	Feature spring-struts can't be installed
KARAF-1737	Upgrade to ServiceMix cglib bundle 2.2.2_1
KARAF-1738	features-generate-descriptor should support \"install\" attribute
KARAF-1739	Upgrade to Jetty 8.1.5.v20120716
KARAF-1742	Add command to show list of threads and stack traces
KARAF-1744	Upgrade to guava 13.0
KARAF-1745	Upgrade to Felix WebConsole 4.0.0
KARAF-1746	karaf github contributions rules
KARAF-1747	Update to jline 2.8

Issue	Description
KARAF-1751	Spring feature dependencies specified too tightly
KARAF-1752	hard coded features uri in features deployer feature discovery
KARAF-1754	updating features.xml in auto deploy folder results in duplication
KARAF-1756	No SSH connection possible on Debian 6.0.5
KARAF-1757	Welcome message incorrect during ssh session or using bin/client.
KARAF-1759	No Way To Start obr Dependencies By Default
KARAF-1761	classes list command
KARAF-1762	command to list bundles with the requested class
KARAF-1765	The obr Shell Deploy And Start Commands Always Deploy Optional Dependencies
KARAF-1769	Upgrade to pax-logging 1.6.10
KARAF-1774	Upgrade to pax-url 1.5.0
KARAF-1779	Upgrade to guava 13.0.1
KARAF-1787	Upgrade to commons-fileupload 1.2.2
KARAF-1788	Upgrade to commons-io 2.4
KARAF-1797	NPE thrown from OsgiConfiguration.unregister
KARAF-1798	Use exam framework for our itests and increase tests coverage
KARAF-1799	JAVA_HOME autodiscovery not working on Windows 7 (karaf.bat)
KARAF-1801	slf4j 1.7.0
KARAF-1803	Servlets attribute doesn't work on HttpMBean
KARAF-1804	SystemMBean should support name attribute
KARAF-1806	Add version attribute in the SystemMBean
KARAF-1809	Feature spring-web-portlet can't be installed

Issue	Description
KARAF-1811	Remove section about console colors from manual
KARAF-1814	Cursor keys do not work when using bin/client on windows
KARAF-1815	When ssh'ing from a windows box into a unix box, arrow keys are not correctly interpreted
KARAF-1816	Upgrade to jline 2.9
KARAF-1817	Upgrade to sshd 0.8.0
KARAF-1818	Improve user guide
KARAF-1819	Upgrade to Mina 2.0.5
KARAF-1824	tooling-exam contains reference to wrong commons-io artifact
KARAF-1827	Build the manual within specific profiles
KARAF-1828	Build src distributions within specific profiles
KARAF-1834	Make KarafTestSupport available externally
KARAF-1835	NPE in jaas:realm-manage command when multiple realm with the same name are present and not login module name is provided.
KARAF-1836	Provide a login module class name completer.
KARAF-1838	PackageMBean should return List<String> and support operation with bundleId
KARAF-1839	system bundle also should export javax.xml.ws.spi.http package
KARAF-1840	should also endorse saaj-api
KARAF-1845	Minimal distribution doesn't start
KARAF-1846	jre.properties is corrupt in 3.0.0-SNAPSHOT
KARAF-1850	feature:list should use alphabetical order
KARAF-1851	inconsistent FeaturesNamespaces versions
KARAF-1853	Attached kar deploys to a different snapshot build number than the main artifact

Issue	Description
KARAF-1859	Upgrade to ServiceMix Specs 2.1
KARAF-1861	Test failure in exam regression tests : KarafWithBundleTest
KARAF-1862	Upgrade to Felix FileInstall 3.2.6
KARAF-1865	Upgrade to paxlogging 1.7.0
KARAF-1867	Upgrade to felix event admin 1.3.0
KARAF-1868	Upgrade aries bundles to 1.0.1 (blueprint-core, jmx-core, transaction-manager, jpa-container-context)
KARAF-1870	Add assertion to EquinoxFrameworkTest
KARAF-1871	KeepRuntimeFolderTest is named wrong and does not assert anything
KARAF-1872	Backward224Test should check for the karaf version
KARAF-1873	BaseKarafDefaultFrameworkTest should test for felix framework
KARAF-1874	Add assertion to FrameworkWithShellOffTest
KARAF-1875	Improvement of test for keeping or deleting the pax exam folder
KARAF-1876	Improve StandardFeaturesTest, EnterpriseFeaturesTest and SpringFeaturesTest using feature service
KARAF-1877	itests fail on jenkins
KARAF-1878	Feature bundle start up order by startLvl
KARAF-1887	Make integration tests more reliable by making sure the boot is finished
KARAF-1889	Change logging in FeaturesServiceImpl
KARAF-1891	Document karaf manual for registering its own MBeans
KARAF-1893	Upgrade to Jetty 8.1.7.v20120910
KARAF-1896	itests.EnterpriseFeaturesTest.installApplicationWithoutIsolationFeature fails with NotSerializableException
KARAF-1897	Use dynamic port allocation of integration tests

Issue	Description
KARAF-1898	trunk does not compile on java 7 due to compendium 4.3.0 generics
KARAF-1900	create project for private compendium build for java 7
KARAF-1903	Refactore osgicore and osgicompendium modules
KARAF-1904	Upgrade to Mina 2.0.7
KARAF-1905	ASM4 causes the Proxy/Weaving of Xerces, but that then causes validation factories to fail.
KARAF-1908	Upgrade to XBean 3.12
KARAF-1914	SSH client authentication randomly fails
KARAF-1916	Make tests faster by using EagerSingleStagedReactorFactory
KARAF-1936	LDAPLoginModule not working in 2.3.0 due to missing import of javax.net.SocketFactory
KARAF-1938	Lock logic should wait for start level change to occur
KARAF-1948	Upgrade to Apache POM 11
KARAF-1951	Remove workaround for KARAF-1117
KARAF-1955	Upgrade to ServiceMix Specs 2.2.0
KARAF-1963	incorrect statement in developers-guide/branding-console.html
KARAF-1966	Upgrade to Pax Web 3.0
KARAF-1973	NullPointerException when performing log:clear then log:tail
KARAF-1976	Shell attempts to execute sub-shell actions as commands
KARAF-1977	Upgrade to OSGi 4.3.1
KARAF-1978	if use script to start a child instance then using karaf console admin:list can't get the instance correct status
KARAF-1981	Upgrade to Felix ConfigAdmin 1.6.0
KARAF-1986	instance.properties file doesn't get updated if karaf.name is changed

Issue	Description
KARAF-1989	Add CXF DOSGi feature uri to org.apache.karaf.features.repos.cfg
KARAF-1990	Add Cellar feature URI in org.apache.karaf.features.repos.cfg
KARAF-1992	PropertiesLoginModule handles usernames with backslash not correct
KARAF-2003	Interrupt a running command in shell
KARAF-2007	features without start-level in features.xml are always started first
KARAF-2008	respectStartLvlDuringFeatureStartup does not respect feature-start-levels (only bundles)
KARAF-2012	Upgrade to Pax Web 3.0.0.M1
KARAF-2017	Service wrapper should use and populate JAVA_HOME in conf file
KARAF-2019	Wrapper doesn't display all Linux statements
KARAF-2022	Password for client script is output to the terminal
KARAF-2026	Two broken links on remote console manual page
KARAF-2027	invalid password option for admin:connect command in documentation
KARAF-2029	delete.user option missing from JDBCLoginModule
KARAF-2035	Not able to clone the root instance
KARAF-2043	Document caveats of Pax Url Wrap when used in Karaf Shell
KARAF-2044	Provide the ability to edit text resources from the Karaf shell
KARAF-2049	Instructions in welcome screen is a bit misleading with hit
KARAF-2050	Ability to configure ssh session idle timeout - currently hardcode as 5 minutes
KARAF-2051	Duplicate definition of org.ops4j.pax.url.mvn.localRepository in org.ops4j.pax.url.mvn.cfg
KARAF-2052	Progress bar doesn't display properly on 80 char consoles
KARAF-2055	Upgrade to Apache POM 12
KARAF-2057	NOTICE and LICENSE files are not correct

Issue	Description
KARAF-2058	ensure find the root instance entry when update root karaf instance name in instances.properties
KARAF-2061	Upgrade to commons-codec 1.7
KARAF-2063	Upgrade to Felix EventAdmin 1.3.2
KARAF-2064	Upgrade to Felix Metatype 1.0.6
KARAF-2065	Upgrade to Felix SCR 1.6.2
KARAF-2067	instance-script terminates with NoClassDefFoundError
KARAF-2068	Upgrade to ASM 4.1
KARAF-2069	Provide a less pager command
KARAF-2072	Spelling correction
KARAF-2074	ensure admin service always load storage file instance.properties before each operation
KARAF-2078	Create the shell:date command
KARAF-2080	Upgrade to slf4j 1.7.2
KARAF-2081	Upgrade to JUnit 4.11
KARAF-2085	Upgrade to Jetty 8.1.8.v20121106
KARAF-2086	Upgrade to Spring 3.1.3.RELEASE
KARAF-2087	add a testcase to cover the scenario that the AdminService can always load latest instance status which changed by external process
KARAF-2094	Include howto add additional jvm configurations (if using the wrapper) to the documentation
KARAF-2096	Upgrade to Pax Exam 2.6.0
KARAF-2097	endorse stax-api spec jar
KARAF-2104	Add regex support in features:* commands
KARAF-2110	karaf-maven-plugin fails to use features with bundles with \"wrap\" keyword

Issue	Description
KARAF-2114	Update org.ops4j.pax.url.mvn.cfg file in child instance to include the system folder
KARAF-2115	Sync weaving behavior between root and child instances
KARAF-2117	LDAP login module is broken
KARAF-2119	upgrade pax.base to 1.4.0
KARAF-2121	Add Support For Displaying Gogo Commands in Karaf Shell Help
KARAF-2125	"Components" tab not shown in WebConsole
KARAF-2133	Generated title contain unresolved placeholder
KARAF-2134	Features deployer does not support mvn urls
KARAF-2136	ServiceMix Spec property misspelled in etc/system.properties
KARAF-2138	Add a status check script and karaf script argument
KARAF-2143	Remove Jetty JUL logger configuration
KARAF-2144	MainStartTest test fails when methods are executed in reverse order
KARAF-2146	Add a log command to log from shell to the log
KARAF-2147	Upgrade to Aries JMX 1.1.1
KARAF-2148	Upgrade to Aries Proxy 1.0.1
KARAF-2149	Upgrade to Aries Blueprint Core 1.1.0
KARAF-2150	Upgrade to Aries Blueprint CM 1.0.1
KARAF-2152	wrong version for pax-jetty
KARAF-2154	Entering an empty command removes previous command in history
KARAF-2155	Wrapper/service does not start for karaf 3
KARAF-2157	Upgrade to Aries Util 1.1.0
KARAF-2158	Test InstanceServiceImplTest#testToSimulateRenameInstanceByExternalProcess fails when run isolated

Issue	Description
KARAF-2159	add option to resolve transitive feature-dependencies in InstallKarsMojo
KARAF-216	Create an admin:clone command
KARAF-2160	add options to only create tar.gz or zip archive in CreateArchiveMojo
KARAF-2161	Incorrect LGPL license info in Notices file
KARAF-2163	Add a jre-1.8 to jre.properties
KARAF-2164	Create shell:wc command
KARAF-2167	org.apache.karaf.tooling.exam.container.internal.adaptions.KarafManipulatorFactory creates invalid version qualifier
KARAF-2171	Start Karaf as service shows 'Activator' error in wrapper.log
KARAF-2176	Upgrade to Pax URL 1.5.1
KARAF-2177	Upgrade to Felix Framework 4.2.1
KARAF-2181	jpa feature can't be installed \"out of the box\"
KARAF-2184	Upgrade to Spring 3.1.4.RELEASE
KARAF-2185	Provide Spring 3.2.x support
KARAF-2188	JPA bundle error out at shutdown
KARAF-2193	Upgrade to Pax URL 1.5.2
KARAF-2197	Upgrade to JLine 2.10
KARAF-2206	The container fails to start correctly with IBM Java 6
KARAF-2208	Upgrade to Aries JPA Blueprint 1.0.1
KARAF-2209	Allow overriding system properties
KARAF-2215	<packaging>kar</packaging> fails to attach artifact
KARAF-2218	Fix manual links on website
KARAF-222	Provide karaf:run, karaf:deploy, karaf:client Maven goals

Issue	Description
KARAF-2220	spring-jms feature shouldn't depend on spring-web
KARAF-2221	The admin service is not safe when used to create / start agents quickly
KARAF-2222	Add hawtio to features.repos
KARAF-2225	jaas PropertiesLoginModule does not complain when users.properties is not found but fails later
KARAF-2226	Properties with pathname are not correct on windows in jaas PropertiesLoginModule
KARAF-2227	Upgrade to Pax-Web 3.0.0.M3 and Jetty 8.1.9.v20130131
KARAF-2228	Karaf.webconsole uses wrong version in export-package header
KARAF-2229	Adapt karaf.webconsole package-imports/exports to felix.webconsole all-in-one bundle
KARAF-2230	Watch command - Add option to control if the console should clear or not
KARAF-2232	Upgrade to Aries Blueprint Core 1.2.0
KARAF-2233	Release Apache Karaf 3.0.0.RC1
KARAF-2234	Thrown Exception in shell commands should be logged as ERROR
KARAF-2236	karaf scripts fail when paths contain spaces
KARAF-2237	LDAP login module cannot look up keystore and/or truststore
KARAF-2240	Incompatible Equinox version
KARAF-2244	BundleWatcher should wait for refresh to be finished before updating another bundle
KARAF-2245	instance:connect doesn't work anymore
KARAF-2246	wrapper feature doesn't install
KARAF-2247	Upgrade to Equinox 3.8.2.v20130124-134944
KARAF-2248	Karaf console wraps on Windows 7 when connecting using the client
KARAF-2257	SCR Component Updates

Issue	Description
KARAF-2264	MBean operation errors are not raised correctly
KARAF-2269	Servicemix Specs Activator/OsgiLocator Broken due to KARAF-2136
KARAF-2270	Service wrapper assumes java is on system path
KARAF-2273	Turn blueprint as synchronous by default
KARAF-2279	Upgrade to OSGi Core 5.0.0
KARAF-2285	Some tabs in WebConsole are blank
KARAF-2290	should also endorse activation-api spec jar
KARAF-2291	make rmiServerHost configurable
KARAF-2292	Upgrade to Pax Web 3.0.0
KARAF-2297	WebConsole should export org.json
KARAF-2298	Karaf shell option for a \"transient\" bundle stop
KARAF-2300	log command to list all the logging levels currently been set
KARAF-2301	Improve shell syntax documentation
KARAF-2306	BootClasspathLibraries should be copied before Karaf classpath settings in pax-exam container
KARAF-2307	ActiveMQ Karaf commands do not work with Karaf 3
KARAF-2308	404 link in latest karaf documentatoin
KARAF-2309	Normal Zip file which put into the deploy folder can't be deleted anymore
KARAF-2310	Upgrade to Spring 3.2.2.RELEASE
KARAF-2312	Uninstalling a feature should respect bundle start levels
KARAF-2314	Remove SNAPSHOT repositories by default in the distribution
KARAF-2315	The check for jvm.dll happens to early in the bat file
KARAF-2316	features-maven-plugin ignore proxy settings in maven settings.xml

Issue	Description
KARAF-2319	Upgrade to Pax Web 3.0.1
KARAF-2320	make kar deployer/service to support NoAutoRefreshBundles option
KARAF-2323	Package MBean fails for export
KARAF-2326	Backspace stops working after shutdown command
KARAF-2327	Upgrade to commons-codec 1.8
KARAF-2328	Upgrade to guava 14.0.1
KARAF-2329	Upgrade to jline 2.11
KARAF-2330	Upgrade to Aries Transaction Blueprint 1.0.1
KARAF-2331	Upgrade to XBean 3.13
KARAF-2332	Upgrade to jansi 1.11
KARAF-2334	Upgrade to slf4j 1.7.5
KARAF-2335	Upgrade to Spring 3.2.3.RELEASE
KARAF-2336	Remove karaf-pax-exam and use pax-exam for itests
KARAF-2337	Upgrade to Apache POM 13
KARAF-2339	Do not install boot features asynchronously
KARAF-2344	ensure LDAPLoginModule can retrieve multiple roles assigned to a specific user
KARAF-2346	WebConsole should export package with version 3.1.2 (and not 4.0.0)
KARAF-2351	Upgrade to Pax-Swissbox 1.7.0(-SNAPSHOT) and bndlib 2.1.0
KARAF-2356	Enable use of ANSI colors in ShellTable
KARAF-2357	features-create-kar goal of the karaf-maven-plugin ignores bundles listed in the features that have the "dependency" property set to "true"
KARAF-2358	Upgrade to Pax URL 1.6.0
KARAF-2359	DirectoryWatcher for "deploy" directory should be configured to wait until framework start level reaches 60

Issue	Description
KARAF-2360	Add password option to admin:connect and ssh:ssh commands
KARAF-2363	Second feature validation result in an Exception.
KARAF-2365	jaas:manage selects wrong configuration
KARAF-2368	Commands with more than one argument have incorrect help string
KARAF-2369	extend role.filter of LDAPLoginModule to support distinguishedName filter
KARAF-2370	Add alias command
KARAF-2372	Introduce boot features sync mode property (true false)
KARAF-2373	Generic capabilities should be formatted correctly when displaying bundle headers
KARAF-2375	WcTests set to ignore
KARAF-2380	Error deploying embedded Karaf web demo
KARAF-2381	The shell log:set command not as documented
KARAF-2383	Upgrade to XBean 3.14
KARAF-2386	Custom Distribution page for 2.3.x is unreachable
KARAF-2389	Upgrade to commons-compress 1.5
KARAF-2390	Fix namespace handlers provided service header
KARAF-2391	Add generic capabilities provided by the framework
KARAF-2392	Remove unneeded manifest headers, add service import definitions for blueprint namespaces
KARAF-2393	Upgrade to Felix Maven Bundle plugin 2.4.0
KARAF-2394	Upgrade to Felix WebConsole 4.2.0
KARAF-2395	karaf:features-generate-descriptor fails with Maven 3.1.0 : No implementation for org.sonatype.aether.RepositorySystem was bound
KARAF-2397	Replace usages of non-standard org.eclipse.osgi with org.eclipse.org.eclipse.osgi

Issue	Description
KARAF-2398	Upgrade to ServiceMix cglib bundle 3.0_1
KARAF-2399	Upgrade to jledit 0.2.0
KARAF-2401	Improve log coloring
KARAF-2404	bin script is not Unix executable in the zip distribution
KARAF-2407	dev:create-dump should generate full stack traces of each thread
KARAF-2413	Add features:chooseurl for camel-extra
KARAF-2414	Move URL handling classes to separate package
KARAF-2415	dev:create-dump: extending with environment information
KARAF-2416	OverlappingFileLockException when cloning an instance
KARAF-2417	Logging doesn't work in cloned instances
KARAF-2419	karaf maven plugin: Extract docbook and wiki help generation from mojo class
KARAF-2421	FeatureFinder should prevent ArrayIndexOutOfBoundsException
KARAF-2422	Upgrade to Pax Exam 3.2.0
KARAF-2423	Avoid overlapping lock exceptions when multiple threads access the admin service
KARAF-2424	Wrapper's generated karaf-service does not work on Solaris
KARAF-2425	Code cleanup in karaf maven plugin
KARAF-2426	Support flat repo structure and meta data export in AddToRepositoryMojo
KARAF-2427	When using service wrapper karaf.data is wrong on child instances
KARAF-2429	It would be nice to have scr:list sort components by id.
KARAF-2434	Add support for JAAS groups
KARAF-2435	Add Role-based access to JMX
KARAF-2436	Upgrade to Pax Logging 1.7.1

Issue	Description
KARAF-2437	Logs still have been printed into console after log:tail and Ctrl + C
KARAF-2438	Improve ScrServiceMBean to display more details about SCR components
KARAF-2439	Karaf maven plugin should allow to export feature meta data so user can create start scripts for containers
KARAF-2442	Role-based security for Shell/Console commands
KARAF-2443	bundle-level and update commands should take symbolic name as parameter
KARAF-2445	"bin\karaf.bat clean\" does not work with whitespaces in KARAF_HOME
KARAF-2446	Fix etc/config.properties for endorsed xercesImpl
KARAF-2447	Managing child instances does not work with whitespaces in KARAF_HOME
KARAF-2449	Include heap dump in the zip created by dev:create-dump
KARAF-2450	Create "service-wrapper" alias to the wrapper feature
KARAF-2452	The "--force" option is not honored when designate bundle as a system bundle
KARAF-2453	Using features to extend existing configuration
KARAF-2454	Portable way to make custom shell commands (without inheriting from OsgiCommandSupport)
KARAF-2455 2372	Role-based security for OSGi Services
KARAF-2456	Shutdown is stuck after wrapper:install
KARAF-2457	Branding is not propagated to instance created with admin:create
KARAF-2458	Update to Spring 3.2.4.RELEASE
KARAF-2459	help command should be contextual to the current subshell
KARAF-2460	Feature file generated by karaf maven plugin does not contain the feature dependencies
KARAF-2461	Upgrade to Pax Web 3.0.2
KARAF-2462	Upgrade to Jetty 8.1.12.v20130726

Issue	Description
KARAF-2463	Upgrade to easymock 3.2
KARAF-2464	Upgrade to sshd-core 0.9.0
KARAF-2465	Upgrade to jasypt 1.9.1
KARAF-2470	maven-karaf-plugin: dependency ignored
KARAF-2471	Karaf Wrapper doesn't return the correct exit result when using RUN_AS_USER
KARAF-2473	log:set DEFAULT is not more supported
KARAF-2474	Provide a command for dumping the System, and OSGi properties
KARAF-2476	Special characters are dropped when generating the LDAP the user and role filters
KARAF-2479	ensure we escape \\ in LDAP filter correctly
KARAF-2482	Provide equivalent to features:info in FeaturesMBean
KARAF-2484	Export Bundle-SymbolicName and Bundle-Version in karaf-maven-plugin
KARAF-2485	Fix StandardFeaturesTest
KARAF-2491	Create extra karaf maven plugin command for meta data export and optionally eliminate duplicates
KARAF-2492	Possible UnsatisfiedLinkError when using dev:restart with native libraries
KARAF-2494	Fixing some bugs about failed resolutions, not adding core features by default
KARAF-2496	Add a configuration to define the behaviour of the subshell completion
KARAF-2497	NPE in PropertiesLoginModule
KARAF-2499	Karaf should exit if the data directory is deleted
KARAF-2500	Karaf should monitor the lock file existence
KARAF-2501	Break some bundle dependencies in the console
KARAF-2502	karaf-service script does not properly set the RUN_AS_GROUP variable if a primary group is not set

Issue	Description
KARAF-2503	Allow to limit the number of entries the history command remembers
KARAF-2505	When clean_cache-file exists the whole data-directory is deleted
KARAF-2510	Upgrade to Aries Blueprint CM 1.0.2
KARAF-2511	Review and update documentation
KARAF-2513	management boot can not process MBean without implement DynamicMBean interface
KARAF-2516	log:tail grep foo - throws interrupted exception when using ctrl + c
KARAF-2520	Null Pointer in Dynamic-Import Command
KARAF-2521	The client script should find better default values
KARAF-2523	Karaf JDBC lock doesn't work with M\$ SQLServer
KARAF-2524	CLONE - Wrapper/service does not start for karaf 3
KARAF-2526	Adding diagnostics for spring dm errors
KARAF-2527	Move duplicate package reporting from bundle:diag to package:exports
KARAF-2528	don't allow authentication = none if LDAP user or password is provided
KARAF-2529	Use connection credentials when searching for roles in LDAP
KARAF-2530	Build failure on Mac....
KARAF-2531	NPE in log:tail after a log:clear
KARAF-2532	itests are very slow because of timeouts when waiting for commands
KARAF-2533	Use PerClass for feature tests
KARAF-2535	Introduce blueprint-web feature
KARAF-2539	Add --clear option to history command
KARAF-2540	LDAP authentication defaults to null if not specified
KARAF-2541	On Mac OS locate the JAVA_HOME

Issue	Description
KARAF-2542	Enhance documentation and wrapper for running Karaf as service with Mac OS X
KARAF-2543	Update to Pax-Web 3.0.3
KARAF-2545	Add feature:repo-refresh command
KARAF-2547	karaf/stop script should be catching 'Connection refused' and display a message
KARAF-2549	Provide additional enterprise features
KARAF-2552	Running log:tail on admin:console causes full CPU usage.
KARAF-2553	Upgrade to commons-compress 1.6
KARAF-2554	Upgrade to Felix ConfigAdmin 1.8.0
KARAF-2555	Upgrade to Felix Metatype 1.0.8
KARAF-2558	Unit Tests in error when building from trunk on Windows platform
KARAF-2559	Upgrade to Felix SCR 1.8.0
KARAF-2560	Upgrade to Felix Utils 1.4.0
KARAF-2563	Compilation fails with JDK 8 ea
KARAF-2564	Upgrade to Felix WebConsole Event plugin 1.1.0
KARAF-2565	Upgrade to OSGi Compendium 5.0.0
KARAF-2566	StandardFeaturesTest fail on aries-annotation feature
KARAF-2569	Introduce KARAF_ETC env variable
KARAF-2572	Karaf does not start if there is no log appender named out
KARAF-2573	Child instance doesn't start
KARAF-2574	Improve message when .sshkaraf/known_hosts key changed
KARAF-2575	Add missing commands in bin/instance
KARAF-2576	Add instance:status/admin:status command to check the status of an instance

Issue	Description
KARAF-2577	--help option doesn't work with command through bin/admin or bin/instance script
KARAF-2578	Upgrade to Pax Tinybundles 2.0.0
KARAF-2579	Upgrade to Pax Exam 3.3.0
KARAF-2581	Upgrade to jledit 0.2.1
KARAF-2582	Upgrade to json 20131018
KARAF-2583	Upgrade to ServiceMix Specs 2.3.0
KARAF-2584	Upgrade to XBean 3.16
KARAF-2586	Upgrade to Pax Web 3.0.4
KARAF-2590	Upgrade to Pax Exam 3.4.0
KARAF-2594	The use of inheritable thread locals in ThreadIO can cause problems
KARAF-2595	log:get ALL and log:set DEFAULT don't work as expected
KARAF-2598	Add "--no-format" option to commands using ShellTable
KARAF-2602	Support Java 8
KARAF-2603	ConfigMBean update() operation is blocked for the admin (karaf) user
KARAF-2604	Improve the feature:repo-add arguments description
KARAF-2605	When reading user input from console, always delegate to the ConsoleReader
KARAF-2606	Add compatibility bundles for console/commands
KARAF-2607	PropertiesBackingEngine allows duplicate roles to be assigned to user
KARAF-2608	Upgrade to Pax Web 3.0.5
KARAF-2609	Provides etc/org.apache.karaf.kar.cfg file in the distribution
KARAF-2610	Update the comments in etc/users.properties (to include changes on groups/roles)
KARAF-2613	Add group/role supports in LDAPLoginModule and JDBCLoginModule

Issue	Description
KARAF-2615	Bundles attribute is empty in the ObrMBean
KARAF-2616	war feature should depends to http (instead of pax-http)
KARAF-2617	Deployed WAB are not available and stay in unknown state
KARAF-2618	Add start()/stop() operations with just bundle ID in the WebMBean
KARAF-2619	Remove jetty.xml from Karaf
KARAF-2620	Manual should use the official OSGi Web-ContextPath instead of Webapp-Context
KARAF-2621	PropertiesLoginModuleTest.testNonExistantPropertiesFile fails on windows
KARAF-2622	shouldn't encrypt public key for PublicKeyLoginModule
KARAF-2623	Karaf client script only returns a non zero status if there is exception
KARAF-2624	Karaf script for AIX should use JVM option: -Xdump:heap instead of IBM_JAVA_HEAPDUMP_TEXT to control production heapdumps
KARAF-2626	Add load-test and threads commands
KARAF-2628	Fix synchronization issues in the commands completer
KARAF-2631	GenerateDescriptorMojo ignores managed scope
KARAF-2632	Handle backslashes at end of line in the console
KARAF-2633	Prevent deadlocks with classloaders on JDK 6
KARAF-2634	Specify the alias when registering servlets to eliminate warnings
KARAF-2635	Deployment errors/warnings for bundles within \"deploy\" directory should be logged
KARAF-2636	Improve security mechanism
KARAF-2637	Optimize the kar deployer to not read/write the status every time a bundle changes
KARAF-2638	Speed up karaf startup a bit by setting the specs timeout to 0
KARAF-2639	Provide a way to configure ciphers and macs and use only the secured one by default

Issue	Description
KARAF-2640	SAXParseException when attempting to execute a dry run of Karaf release
KARAF-2643	Upgrade to Felix FileInstall 3.2.8
KARAF-2644	Upgrade to Felix Utils 1.4.2
KARAF-2645	Created instances etc folder doesn't contain all mandatory files
KARAF-2649	Add Spring Security features
KARAF-2650	Ide alias is not correct
KARAF-2656	Config service doesn't create a file in etc if it doesn't exist
KARAF-2658	Include Pax CDI 0.6.0 repository in Karaf enterprise features
KARAF-2659	Upgrade Karaf core features namespace to 1.2.0
KARAF-2660	Upgrade to javax.annotation 1.2.0
KARAF-2661	Upgrade to ServiceMix Specs 2.4.0
KARAF-2663	client fails with NullPointerException
KARAF-2666	Provide hibernate features
KARAF-2669	Command Archetype uses private-package !* which leads to an empty bundle
KARAF-2673	Cannot execute single itests
KARAF-2674	Provide Spring 4.0.2.RELEASE_1 feature
KARAF-2676	Editing properties in configuration files managed via MangedServiceFactories leads to corrupt property file
KARAF-2678	txlog files locked during admin clone on windows
KARAF-2679	Blueprint and Spring url handlers are not thread safe
KARAF-2680	Add new itests
KARAF-2683	Fix OpenJPA features
KARAF-2685	Set the hibernate bundles start-level greater than the default one

Issue	Description
KARAF-2686	Add DBCP datasource support
KARAF-2687	Better thread name for lock and shutdown background threads
KARAF-2688	Karaf info - Add memory details about perm gen pool
KARAF-2690	Add trailing / in osgi:service in the jndi:names command
KARAF-2691	Karaf shell info command to display the pid
KARAF-2692	The jdbc and jms completers shows jndi names for the delete command
KARAF-2693	Upgrade to Pax Logging 1.7.2
KARAF-2694	NPE when use osgi:uninstall
KARAF-2695	Upgrade to commons-codec 1.9
KARAF-2696	Add config files to meta data
KARAF-2697	Upgrade to Aries Blueprint Core 1.4.0
KARAF-2698	Add -l (level) option to log:display/log:tail in order to filter messages only for a given log level (and higher)
KARAF-2700	Upgrade to Felix Metatype 1.0.10
KARAF-2702	Upgrade to bndlib 2.2.0
KARAF-2703	Upgrade to maven-assembly-plugin 2.4
KARAF-2704	Upgrade to maven-compiler-plugin 3.1
KARAF-2705	Upgrade to maven-dependency-plugin 2.8
KARAF-2706	Upgrade to maven-deploy-plugin 2.8.1
KARAF-2707	Mistake on karaf-wrapper.conf generate to Windows 64 bits with wrapper:install
KARAF-2708	Upgrade to maven-enforcer-plugin 1.3.1
KARAF-2709	Upgrade to maven-idea-plugin 2.2.1
KARAF-2710	Upgrade to maven-install-plugin 2.5.1

Issue	Description
KARAF-2711	Upgrade to maven-javadoc-plugin 2.9.1
KARAF-2713	Upgrade to maven-jxr-plugin 2.4
KARAF-2714	Upgrade to maven-project-info-reports-plugin 2.7
KARAF-2715	Upgrade to maven-release-plugin 2.4.2
KARAF-2716	Upgrade to maven-remote-resources-plugin 1.5
KARAF-2717	Upgrade to maven-resources-plugin 2.6
KARAF-2719	Upgrade to maven-site-plugin 3.3
KARAF-2720	Upgrade to maven-source-plugin 2.2.1
KARAF-2721	Upgrade to maven-surefire-report-plugin 2.16
KARAF-2722	Upgrade to maven-war-plugin 2.4
KARAF-2723	Upgrade to maven-rat-plugin 0.10 and fix rat issues
KARAF-2724	Upgrade to build-helper-maven-plugin 1.8
KARAF-2725	jpa feature should install org.osgi.enterprise 5.0.0 bundle
KARAF-2726	Openjpa feature installs wrong jpa spec bundle
KARAF-2727	Unable to start karaf on Solaris
KARAF-2729	DerbyXA datasource (from template) is not visible with jdbc:datasources
KARAF-2731	Commands using the old Action interface with the felix package name do not work
KARAF-2732	Karaf doesn't start without internet connection
KARAF-2733	Upgrade to commons-beanutils 1.9.1
KARAF-2736	Upgrade to Aries Transaction Manager 1.1.0
KARAF-2737	Upgrade to Felix SCR 1.8.2
KARAF-2738	Wrong groupId for xercesImpl

Issue	Description
KARAF-2739	Open jansi import in shell table to allow usage in karaf 2.x
KARAF-2741	JMS Command Refactorings for error handling
KARAF-2742	karaf-maven-plugin can not include filtered resources in a custom distribution
KARAF-2743	karaf-maven-plugin can not create custom Karaf with Apache Camel
KARAF-2745	JDBC commands improve error handling
KARAF-2746	Hibernate feature enhancements
KARAF-2747	The Http-Whiteboard feature is missing a link to the http feature
KARAF-2749	BundleSelector should be more \"selective\"
KARAF-2751	Add Hibernate-Validator feature
KARAF-2752	Provide a way to override bundles at feature installation time
KARAF-2753	Logging for override mechanism
KARAF-2754	all password should be encrypted when encryption.enabled is true
KARAF-2756	Define an annotation for completers and retrieve them from the OSGi Service Registry
KARAF-2759	Error in Client parameter parsing
KARAF-2760	Monitor etc/user.properties to automatically encrypt passwords
KARAF-2761	Java DSL for creating commands
KARAF-2762	Whiteboard exporter for Actions
KARAF-2763	Define simple injection annotations for commands and completers
KARAF-2767	Update to commons-fileupload 1.3.1
KARAF-2769	Upgrade to Pax CDI 0.7.0
KARAF-2772	Separate command api and support classes from shell
KARAF-2773	Refreshing the console bundle closes karaf

Issue	Description
KARAF-2774	Watched bundles are restarted twice
KARAF-2775	webconsole gogo plugin does not work: Exception in thread \"Karaf Console Web user karaf\" java.lang.SecurityException: Current user has no associated roles.
KARAF-2776	Startup bundles are installed out of order
KARAF-2777	Substitution is scattered in various place and the code has bugs
KARAF-2778	The bin/shell script is broken
KARAF-2779	wrapper feature can't be installed
KARAF-2781	Enable rat profile by default
KARAF-2783	Upgrade to Pax Web 3.0.7-SNAPSHOT
KARAF-2785	First line of sorted input not printed in sort command
KARAF-2786	Comment the default key and document how to change/enable it
KARAF-2789	Upgrade to sshd 0.11.0
KARAF-2790	Bundle commands wrongly default to select all bundles
KARAF-2791	AddFeaturesToRepoMojo should support read version from dependency features
KARAF-2793	Remove tight coupling from bundle/core and kar/core to pax-url-aether
KARAF-2794	Remove gogo-runtime and jansi bundles
KARAF-2795	@Option annotation class missing documentation
KARAF-2797	Allow FeaturesService to specify options during feature uninstallation
KARAF-2798	jdbc:create -i -t HSQL installs wrong db-engine
KARAF-2801	Fix camel-extras features repository URL
KARAF-2805	Provide a clean console and command model
KARAF-2806	The bundle:watch commands fails when updating o.a.k.bundle.core bundle
KARAF-2807	Unable to have multiple subshells in one bundle

Issue	Description
KARAF-2808	Child containers should be able to have additional libs on the classpath
KARAF-281	History using up arrow does not work on windows
KARAF-2811	Upgrade to felix utils 1.6.0
KARAF-2813	Use EventAdmin to provide an audit trail of events, but it's lacking the authenticated Subject who performed the action
KARAF-2816	upgrade to spring 3.2.8.RELEASE
KARAF-2818	Add ECF to feature repo
KARAF-2819	datasource-xxx.xml contains wrong password after jdbc:create
KARAF-2820	features-maven-plugin:add-features-to-repo adds wrong transitive feature version
KARAF-2821	features-maven-plugin:add-features-to-repo is broken in 2.3.5-SNAPSHOT
KARAF-2822	org.apache.karaf.jaas.modules.jdbc.JDBCUtils.OSGI contains \"bundles:\" not \"osgi:\" as required by the OSGi JNDI spec\"
KARAF-2828	Reintroduce system as a default repository
KARAF-2829	Upgrade to pax-url 2.0.0
KARAF-2830	Karaf scripts java version check should be more \"flexible\"
KARAF-2831	Switch to pax url uber bundles
KARAF-2832	Fix exception when using the features-maven-plugin with non osgi compliant features version
KARAF-2833	Make core services independant of blueprint
KARAF-2834	Create features for aries proxy / blueprint and various karaf services
KARAF-2835	Do not include blueprint in the karaf framework
KARAF-2837	The config.properties in features-maven-plugin is out-of-data.
KARAF-2839	Conditional features are not verified correctly after installing / uninstalling a feature
KARAF-2840	Creating child container using admin service should use KARAF_OPTS

Issue	Description
KARAF-2841	FeaturesService#listInstalledFeatures() should not return conditional features
KARAF-2842	Add an option to feature:install to install the bundles without starting it
KARAF-2844	Sync skipTests and invoker.skip
KARAF-2845	Move SingleServiceTracker to util
KARAF-2846	Gogo webconsole plugin is broken
KARAF-2847	Connect connect to the root instance
KARAF-2848	Add MSSQL datasource type
KARAF-2849	MBeanServer unregistration is not correctly handled
KARAF-2850	The karaf-maven-plugin and boot features service should be more resilient with the bootFeatures list.
KARAF-2851	The FeaturesService can sometime loose the repository list
KARAF-2852	Merge commands into their respective service bundle
KARAF-2853	Upgrade to Apache POM 14
KARAF-2855	The config:list command should sort configurations and properties
KARAF-2856	Assembly archetype itest fails
KARAF-2857	Add Solaris x86_64 support to wrapper
KARAF-2859	Decouple features/core from persistent/core
KARAF-2860	Upgrade to Felix Framework 4.4.0/Felix Framework Security 2.4.0
KARAF-2861	Upgrade to ASM 5.0.3
KARAF-2863	Spring features are not correct
KARAF-2864	The internal logger for the felix framework is not configured
KARAF-2865	Avoid uninteresting exception stack traces while running load-test
KARAF-2868	Upgrade to aries jmx core 1.1.2

Issue	Description
KARAF-2869	Upgrade to Pax CDI 0.7.0
KARAF-2871	Command description for http:* commands
KARAF-2874	Upgrade to XBean 3.18
KARAF-2875	Remove useless StringMap class from main
KARAF-2877	Upgrade to Pax Web 4.0.0
KARAF-2878	The thread reading the system input stream should exit automatically when the console bundle stops
KARAF-2880	jms:* commands don't consume messages
KARAF-2888	New FeaturesService based on the real OSGi resolver
KARAF-2889	Upgrade to Equinox 3.9.1-v20140110-1610
KARAF-2890	The env variables can't be read while running karaf as a Linux service
KARAF-2895	installation website link produces 404 not found page
KARAF-2898	Maven feature validation did not accept WAR bundle (WAB) artifacts.
KARAF-2899	NPE when running features:listUrl
KARAF-2900	Allow generic requirements as condition to features
KARAF-2901	Add an option to show bundle version in bundle:tree-show
KARAF-2902	Separate section for Karaf-xxx headers and sort headers
KARAF-2903	Upgrade to gemini blueprint 1.0.2
KARAF-2904	Use the osgi extender namespace for blueprint
KARAF-2906	Upgrade to fileinstall 3.4.0
KARAF-2907	Upgrade to ConfigAdmin 1.8.0
KARAF-2908	Upgrade to hibernate latest 4.2.x and 4.3.x versions
KARAF-2909	Upgrade to felix gogo runtime 0.12.0

Issue	Description
KARAF-2910	Properties login module seems to leak a PropertiesInstaller reference results in OOM
KARAF-2911	Support for Aries OSGi subsystems
KARAF-2912	Upgrade to equinox region 1.1.0.v20120522-1841
KARAF-2913	JAAS JDBCBackingEngine has the wrong condition to iterate results, no users are returned
KARAF-2914	JAAS JDBCBackingEngineFactory: Wrong query from the configuration
KARAF-2915	Add flag <code>"-bl Bundle-Level"</code> to install command to set Bundle-Level during bundle installation.
KARAF-2916	Add fully qualified DN replacement for role search
KARAF-2917	Command to display bundle id
KARAF-2918	Provide ability to set a banner prior to user login via ssh
KARAF-2919	karaf jms:* commands works in non-transacted mode
KARAF-2921	bin/karaf selecting the wrong Java VM on a computer with Java 8 installed
KARAF-2923	Region support in features service
KARAF-2927	Allow karaf-maven-plugin integration tests to run in maven offline mode
KARAF-2928	Upgrade to Aries JMX Core 1.1.2
KARAF-2929	Upgrade to Aries JNDI Url 1.1
KARAF-2930	Support for OSGi Repository spec in resolution
KARAF-2931	Webconsole plugins are broken
KARAF-2932	Upgrade to Felix WebConsole 4.2.2
KARAF-2933	Upgrade to Jasypt 1.9.2
KARAF-2935	Upgrade to Pax URL 2.0.0
KARAF-2936	Upgrade to slf4j 1.7.7 / Pax Logging 1.7.3

Issue	Description
KARAF-2937	Upgrade to json 20140107
KARAF-2941	Let jdbc be more robust against broken data sources
KARAF-2942	Require JDK7 for Karaf 4.x
KARAF-2943	Wrong polymorphism leads to null variables
KARAF-2944	Add jasypt-spring31 bundle to jasypt-encryption feature
KARAF-2945	Upgrade to Aries Proxy 1.0.3 and Aries spifly 1.0.1 in order to support ASM5 and Java8
KARAF-2946	Duplicate package exports because of accidently deployed bundles
KARAF-2947	Karaf master does not build because of rat errors when working with eclipse
KARAF-2948	Add su and sudo commands
KARAF-2949	Use a jaas role to allow access to system bundles
KARAF-2951	Transitive repositories and bundles are not added to system repo
KARAF-2952	Add a lifecycle for features
KARAF-2957	LDAP login module cannot handle slashes in CN
KARAF-2958	Use of type-converters in Karaf Security Documentation is incorrect
KARAF-2959	JDBC commands don't properly close connection
KARAF-2961	When a feature is generated from a bundle project, include that bundle in the feature
KARAF-2963	osgi:headers - Add option to not display uses:= in exported headers as its too verbose and useless information
KARAF-2966	scr:details - Sort the properties so its easier for humans to read
KARAF-2971	there is no MBean operation for easily get bundle status
KARAF-2974	Mentioning of version number delimiter missing in obr:deploy command help
KARAF-2977	JdbcMBean attribute is \"unavailable\"

Issue	Description
KARAF-2978	RBAC-- recognize group configuration when use Publickey to Login
KARAF-2980	strip off tabs/spaces around role group names
KARAF-2981	Karaf shutdown hangs in SshServer.stop()
KARAF-2983	Support window size change signals in Terminal
KARAF-2984	Improve setenv script to include placeholder for extra java options
KARAF-2985	Provide a plugin to automatically generate generic requirements / dependencies for karaf internal activators
KARAF-2986	Use urls for features repository completion mapping
KARAF-2988	Add support for prerequisites on features
KARAF-2989	rmiServerHost configuration doesn't work on Karaf 3.x
KARAF-2991	Shell Console throws exception when a service contains int[] as value for a property
KARAF-2992	Generate the shutdown command at first boot
KARAF-2994	Use the current distribution configuration for default boot features when creating children
KARAF-2995	RBAC - the shell command acl configuration modification can't take effect unless we restart the Karaf server
KARAF-2996	shutdown +n command not work and shutdown hh:mm not been validated
KARAF-2998	When chopping long lines, less does not take tabs into account
KARAF-3000	Whitespace in feature file bundle element value causes NumberFormatException
KARAF-3001	RBAC - MBean Server RBAC guard should support wildcard role
KARAF-3002	RBAC-add a jmx.acl.whitelist so that all ObjectName in this list will bypass the RBAC
KARAF-3003	Allow deployment based on generic requirements, bundles and bundle dependencies
KARAF-3006	Provide an EventAdmin based audit trail for JAAS

Issue	Description
KARAF-3016	Be able to redirect child instance std out in a file
KARAF-3020	RBAC-put \"type\" right after the domain when generate the PID from JMX ObjectName
KARAF-3021	Keyboard still read after log:tail cancelled
KARAF-3022	RBAC - support the JMX operation match starts with a wildcard
KARAF-3024	RBAC - Support wildcard in jmx.acl.....cfg filename
KARAF-3025	Add an instance:restart command
KARAF-3026	Add a dependency=\"true\" flag on feature dependencies
KARAF-3031	Upgrade to Pax URL 2.1.0
KARAF-3032	Multi-stage boot features function does not support over 3 stages.
KARAF-3033	The system bundle should export and boot delegate javax.xml.crypto packages
KARAF-3042	Add a variable (false by default) to enable redirect to karaf.out
KARAF-3044	Can't shutdown karaf via wrapper on AIX
KARAF-3045	Simplify console branding
KARAF-3046	Upgrade to gogo runtime 0.12.1
KARAF-3052	Allow passing through custom ldap properties
KARAF-3054	client doesn't load using IBM JDK
KARAF-3055	tabbing in subshell displays more than commands of the current subshell
KARAF-3056	Upgrade to JLine 2.12
KARAF-3058	add backing engine service for org.apache.karaf.jaas.modules.publickey.PublickeyLoginModule
KARAF-3061	Problems with jaas:realms / jaas:manage commands when using multiple realms of the same name
KARAF-3066	Improve OpenEJB documentation in manual

Issue	Description
KARAF-3068	Update to Spring 3.2.9.RELEASE_1
KARAF-3072	Instance etc files are not sync with the root etc files
KARAF-3073	Add jvisualvm config in monitoring documentation
KARAF-3074	Provide mbeans for statistics of hibernate session factories
KARAF-3075	AdminService should avoid writing file in case just read instance status
KARAF-3085	features:chooseurl/feature:repo-add should support \"real\" version range
KARAF-3095	itests randomly fail to get the JMXConnector
KARAF-3096	Karaf doesn't start with Equinox 3.9.1
KARAF-3098	Check the usage of config.properties in main module
KARAF-3100	Add Option To Create Config Files For Feature Configs Instead Of Importing Directly Into Config Admin
KARAF-3101	Upgrade to Spring 4.0.5.RELEASE
KARAF-3102	\"New\" resolver leaves some bundles in resolved state and install unexpected bundles
KARAF-3103	config:edit does not correctly handle configuration visibility for --factory calls.
KARAF-3104	Add the connector feature from ServiceMix
KARAF-3105	Cannot use LDAPLoginModule with ActiveDirectory
KARAF-3106	Upgrade to blueprint core 1.4.1
KARAF-3107	Upgrade to maven-bundle-plugin 2.5.0
KARAF-3109	Upgrade to Pax Exam 4.0.0
KARAF-3111	Instance/Admin Service should provide more options as part of instance settings
KARAF-3112	make stopTimeout of AdminService configurable
KARAF-3115	add address flag when create a child instance
KARAF-3116	Upgrade to Felix Framework 4.4.1

Issue	Description
KARAF-3119	Do not allow empty passwords by default for ldap
KARAF-3120	Upgrade to Aries JPA 1.0.2
KARAF-3121	Upgrade to Aries Blueprint Annotation 1.0.1
KARAF-3123	BundleWatcherImpl tries to stop bundle fragments
KARAF-3124	Provide shell:env command
KARAF-3125	Add a possibility to cache LDAP credentials
KARAF-3126	add more specific completer for admin:start stop command
KARAF-3127	bin/instance script doesn't work
KARAF-3128	Update ops4j/oss sonatype repositories URL
KARAF-3129	RAT plugin error on ssh key files
KARAF-3130	add admin:change-ssh-host command
KARAF-3131	Upgrade to Hibernate 4.2.15.Final/4.3.6.Final
KARAF-3134	Log executed shell commands at debug level
KARAF-3138	Having eventadmin listed as a boot features cause problems in other bundles startup
KARAF-3140	Upgrade to sshd 0.12.0
KARAF-3147	Local JMX connect is not possible
KARAF-3149	Karaf chooseurl for jclouds is wrong
KARAF-3150	kar:install doesn't support classifier in a MVN URL
KARAF-3156	Upgrade to Pax CDI 0.8.0
KARAF-3157	Upgrade to Pax Exam 4.1.0
KARAF-3158	Incorrect javax.annotation version for java7
KARAF-3159	Fix feature deployer documentation about auto installation of the features

Issue	Description
KARAF-3162	Update the security documentation as the PropertiesConverter doesn't exist anymore
KARAF-3164	Document exposing JAAS BackendEngineFactory services for the login module
KARAF-3167	Document the configfile override behaviour
KARAF-3170	Java8 packages related to JavaFX are missing
KARAF-3180	openwebbeans feature doesn't install
KARAF-3182	Upgrade to Felix EventAdmin 1.4.0
KARAF-3183	Upgrade to bndlib 2.3.0
KARAF-3184	Upgrade to commons-beanutils 1.9.2
KARAF-3185	Upgrade to Felix BundleRepository 2.0.2
KARAF-3192	Don't throw IllegalStateException when can't find attribute for a certain bean
KARAF-3196	Export sun.misc package from the system bundle
KARAF-3198	Cleanup Pax Swissbox dependencies
KARAF-32	Support ssh public key authentication and agent forwarding
KARAF-3201	Upgrade to pax-logging 1.7.4
KARAF-3204	Avoid calls to Configuration#setBundleLocation(null) which are not needed
KARAF-3205	Refactor create-dump to be more low level
KARAF-3207	Provide an audit login module
KARAF-3210	karaf:features-generate-descriptor fails with Maven 3.1.x and 3.2.x : required class was missing ... org/sonatype/aether/RepositorySystem
KARAF-3212	karaf.data variable not correctly resolved while installing the pax-http feature
KARAF-3213	ConcurrentModification exception in FileInstall/Upgrade to Felix FileInstall 3.4.1
KARAF-3222	Command description for osgi:shutdown could be improved
KARAF-3224	Support wrap URL with option

Issue	Description
KARAF-3226	Upgrade to Spring 4.0.7.RELEASE
KARAF-3227	Upgrade to Spring 3.2.11.RELEASE
KARAF-3228	Add Spring 4.1.2.RELEASE_1 features
KARAF-3229	Upgrade to Felix EventAdmin 1.4.2
KARAF-3230	jndi feature doesn't install
KARAF-3233	Upgrade to Pax Exam 4.2.0
KARAF-3243	Upgrade to Pax URL 2.2.0
KARAF-3246	Rename jpa features as jpa/jpa20 and jpa21
KARAF-3248	bundle:refresh doesn't work without argument
KARAF-3249	Error: "\"usage: dirname path\" when Karaf is located under path with spaces
KARAF-3250	JVM options ignored on Windows
KARAF-3251	Karaf maven plugin does not install bundles in conditional as needed
KARAF-3255	Document jasypt property placeholder
KARAF-3261	jdbc command (using JdbcConnector.java) does not honour service ranking and throws IllegalArgumentException instead
KARAF-3262	Being able to use \${karaf.etc} in feature <configfile/> element
KARAF-3264	What is the AND operator in shell:if ?
KARAF-3265	Upgrade to Aries Blueprint CM 1.0.5
KARAF-3273	zodiac.springsource.com repo is missing from the default repository set (required for gemini-blueprint feature)
KARAF-3275	Release Apache Karaf 4.0.0.M1
KARAF-3278	Display warning message when trying to install an already installed bundle
KARAF-3279	Update Aries SubSystem to use API and Core bundles
KARAF-328	Drop support for JDK 1.5

Issue	Description
KARAF-3280	maven javadoc plugin update to source 1.7
KARAF-3281	Upgrade to Pax Logging 1.8.0 (log4j v2 support)
KARAF-3282	highlight local classes/resources in <code>"bundle:classes"</code> command
KARAF-3284	The shell-log bundle should not import <code>org.apache.log4j.*</code> package
KARAF-3288	karaf script doesn't start on Solaris if <code>JAVA_HOME</code> is not set
KARAF-3289	Add a while loop command
KARAF-3290	Upgrade to felix gogo runtime 0.14.0
KARAF-3291	Upgrade to Pax Exam 4.3.0
KARAF-3293	more fine-grained way to specify the <code>jmx.acl.whitelist.cfg</code>
KARAF-3303	<code>"keyStoreAvailabilityTimeout"</code> is treated as boolean in JMX configuration
KARAF-3304	Upgrade to Pax CDI 0.9.0
KARAF-3305	Upgrade to Aries Blueprint Core 1.4.2
KARAF-3306	Upgrade to Aries JNDI API 1.1.0
KARAF-3307	Upgrade to Aries JPA API 1.0.2/JPA Container 1.0.2/JPA Blueprint Aries 1.0.4/JPA Container Context 1.0.4
KARAF-3308	Upgrade to Aries Proxy Impl 1.0.4
KARAF-3309	Upgrade to Felix Maven Bundle Plugin 2.5.3
KARAF-3311	Upgrade to Pax Tinybundles 2.1.0
KARAF-3312	Upgrade to maven-assembly-plugin 2.4.1
KARAF-3313	Upgrade to maven-compiler-plugin 3.2
KARAF-3314	Upgrade to maven-dependency-plugin 2.9
KARAF-3315	Upgrade to maven-jar-plugin 2.5
KARAF-3316	Upgrade to maven-site-plugin 3.4

Issue	Description
KARAF-3317	Upgrade to maven-source-plugin 2.4
KARAF-3318	Upgrade to maven-surefire-plugin 2.17
KARAF-3319	Upgrade to maven-war-plugin 2.5
KARAF-3320	Upgrade to apache-rat-plugin 0.11
KARAF-3321	Upgrade to build-helper-maven-plugin 1.9.1
KARAF-3322	Upgrade to exec-maven-plugin 1.3.2
KARAF-3325	Karaf throws SocketTimeoutException and exits after 49 days
KARAF-3327	Incorrect LC_CTYPE parsing
KARAF-3330	embedded Karaf web demo doesn't deploy since 3.0.2
KARAF-3331	Upgrade to Aries Transaction Manager 1.1.1
KARAF-3335	Endorsed org.apache.karaf.exception-3.0.2 jar causes issues with Java 8 Nashorn scripts
KARAF-3338	Upgrade to Apache POM 15
KARAF-3347	'LATEST' placeholder is not resolved correctly for descriptors and repositories
KARAF-3350	The log:display command fails with CNFE if the pax-logging-service bundle has been refreshed
KARAF-3352	Generate html and pdf artifacts in the manual
KARAF-3353	Upgrade jandex in hibernate feature to avoid wrapping
KARAF-3362	Version for Jetty in standard features is wrong.
KARAF-3365	typo in org.ops4j.pax.url.mvn.cfg
KARAF-3367	add additional configuration options when use wrapper:install
KARAF-3368	Support reference:file:xxx urls in startup.properties
KARAF-3369	karaf-maven-plugin 3.0.2 breaks deployment to Nexus

Issue	Description
KARAF-3370	itests using ssh or cdi related fail
KARAF-3372	only register HUP signal handler for non-windows platform
KARAF-3373	Log lower level root cause exception in LDAPLoginModule.doLogin()
KARAF-3377	Starting Karaf on Windows changes console title
KARAF-338	Upgrade Karaf to version 1.0.0 of pax-web
KARAF-3380	Convert mojos to use annotations
KARAF-3381	Remove deprecated methods in InstanceService / Instance
KARAF-3382	Support configuration for custom LDAP group to JAAS role mapping
KARAF-3383	Avoid exception causing completion to fail if a completer class can not be loaded (because of an optional package for example)
KARAF-3384	Commands are not unregistered correctly when a bundle is stopped
KARAF-3385	MultiException stacktraces do not display inner causes
KARAF-3386	Improve InstallKarsMojo to support reference: protocol and additional feature repositories
KARAF-3387	Add a verify-features goal to validate the feature with a real OSGi resolution
KARAF-3388	Fix blueprint-jasypt tests
KARAF-3389	Move security configurations (for commands and jmx) to their respective features
KARAF-3390	Karaf client should allow passing arguments to command
KARAF-3391	Move Base64 into karaf util
KARAF-3393	Provide ready to use jpa20 and jpa21 features
KARAF-3396	Upgrade to pax-logging 1.8.1
KARAF-3397	FeaturesServiceMBeanImpl throws an Exception when listening the features
KARAF-3398	Improve display of package:imports
KARAF-3399	The host is not refreshed if a new fragment is installed

Issue	Description
KARAF-3400	Enabling Java System Security and OSGi security leaves Karaf in unusable state
KARAF-3401	Typo in users.properties
KARAF-3403	bin/client Utility Throws ArrayIndexOutOfBoundsException
KARAF-3404	Add a notion of profiles to karaf
KARAF-3405	Support for "\"mostly static\" karaf instances
KARAF-3406	Upgrade to pax-url 2.2
KARAF-3407	Upgrade to felix utils 1.6.2
KARAF-3408	feature:repo-refresh doesn't work
KARAF-3410	Add a maven proxy servlet
KARAF-3412	should add javax.management.builder.initial flag for Karaf child instance
KARAF-3413	should also associate the role to run executeScript
KARAF-3414	SshCommandTestBase uses some deprecated sshd APIs
KARAF-3418	Add getFeatureRepositoryName(Uri uri) to FeatureService
KARAF-342	merge webconsole branding package with webconsole
KARAF-3420	Java Debug options are Pre Java 5.0
KARAF-3421	Add a variable for the debug port number.
KARAF-3422	Upgrade pax-url dependency to 2.3.0
KARAF-3423	Can't connect to a running instance with instance:connect
KARAF-3425	Need a solution to add a "\"specific version\" of a feature in karaf-maven-plugin
KARAF-3428	Upgrade to Pax CDI 0.10.0
KARAF-343	Upgrade to fileinstall 3.1.10
KARAF-3430	User name/password missing in connection factory created with jms:create
KARAF-3434	Support env:XXX substitution for environment variables

Issue	Description
KARAF-3435	Support default/alternate values for variable substitution
KARAF-3436	Upgrade to felix fileinstall 3.4.4
KARAF-3439	[Docs] karaf.lock.delay in example is set to very low number.
KARAF-3441	The admin:stop Command Does Not Zero Out Root Container PID
KARAF-3443	Deployed KAR files may be installed in the wrong order.
KARAF-3444	ExecuteAction - consider log level INFO changing to DEBUG
KARAF-3446	avoid Karaf client script \"logout\" command throwing an exception
KARAF-3452	Upgrade to maven-release-plugin 2.5.1
KARAF-3453	Create jolokia feature
KARAF-3455	Support for custom command parsers
KARAF-3459	PropertiesLoginModule throws NPE when callbackHandler is null
KARAF-3460	NPE in AutoEncryptionSupport.run
KARAF-3461	bin/karaf doesn't use the provided KARAF_HOME
KARAF-3464	Upgrade to Pax CDI 0.11.0
KARAF-3465	Add pax-* projects URLs in the etc/org.apache.karaf.features.repos.cfg
KARAF-3470	Upgrade to Pax Exam 4.4.0
KARAF-3471	Karaf can't start if etc/config.properties is not writable
KARAF-3474	Use Pax Web 4.1.0
KARAF-3478	Switch jdbc commands to use pax-jdbc-config and pax-jdbc-config-pool
KARAF-3481	Upgrade to OSGi r6
KARAF-3487	config:edit '(service.factorypid=myconfig)' throws NPE
KARAF-3490	Unresolved dependency (equinox region) when running an unmodified custom distribution

Issue	Description
KARAF-3493	CreateArchiveMojo ignores the targetFile option
KARAF-3494	client should not fail if it can't read etc/org.apache.karaf.shell.cfg file
KARAF-3499	Missing properties on the eventadmin events for jaas
KARAF-3500	NPE throws when executing \"bin/client shutdown\"
KARAF-3501	bin/client script doesn't work in latest 4.0 SNAPSHOT kit
KARAF-3504	Make instance:create less verbose in the log
KARAF-3506	karaf-maven-plugin doesn't handle leading whitespace on config file locations
KARAF-3511	Release Apache Karaf 4.0.0.M2
KARAF-3513	JMXConnectorServer should be able to pick up the new KeystoreInstance available in container
KARAF-3514	RuntimeException when setting system.properties -> karaf.lock.level to a value greater 4 and starting Karaf
KARAF-3516	JMS: Create command -u option changes username and url
KARAF-3517	Typo in features bundle info
KARAF-3520	FeatureService fails to install feature in case of missing capability
KARAF-3524	Features on conditionals are not installed
KARAF-3526	feature:install foo doesn't fail anymore when no feature match
KARAF-3527	Appending config from feature doesn't work
KARAF-3528	When updating bundles, use the Bundle-UpdateLocation header
KARAF-3529	Make sure the framework resolver uses the already computed resolution
KARAF-3536	Diagnostic module won't compile with IBM JDK
KARAF-3537	More and less commands do not handle ansi escape sequences correctly
KARAF-3538	Support multiline values in ShellTable
KARAF-3539	Ability to create headless shell session with a parent

Issue	Description
KARAF-3541	Move Karaf boot libraries into their own folder
KARAF-3542	Correctly use opened streams when parsing xml
KARAF-3543	ClassNotFoundException when running shell.sh
KARAF-3544	Spring features should have a conditional on deployer for installing the spring url handler
KARAF-3545	The bundle:list command should display ellipsis when displaying long bundle locations
KARAF-3546	Provide a programmatic way to build custom karaf distributions outside of maven
KARAF-3548	Upgrade to bndlib 2.4.0
KARAF-3549	Upgrade to commons-codec 1.10
KARAF-3550	Upgrade to jline 2.12.1
KARAF-3551	Extend Karaf Instance interface with getRmiRegistryHost, getRmiServerHost, getSshHost
KARAF-3552	Upgrade to Aries Blueprint CM 1.0.6
KARAF-3553	Upgrade to Aries Blueprint Core 1.4.3
KARAF-3554	Upgrade to Aries JNDI Core 1.0.2
KARAF-3556	Upgrade to Aries Transaction Blueprint 1.0.2
KARAF-3558	Upgrade to sshd-core 0.13.0
KARAF-3559	Upgrade to Easymock 3.3.1
KARAF-3560	Upgrade to junit 4.12
KARAF-3562	DefaultJDBCLock case sensitive issue
KARAF-3563	Upgrade to Pax-URL-Aether 2.4.0
KARAF-3566	The javax.annotation package should be exported from system bundle with version 1.0 in JDK8
KARAF-3570	The jaas realm configuration is broken

Issue	Description
KARAF-3574	Improve tooling support for karaf libraries
KARAF-3575	Enhance diagnostic core to allow \"external\" dump providers
KARAF-3576	Optimize GuardProxyCatalog#getServiceInvocationRoles
KARAF-3577	Optimize SecuredCommandConfigTransformer#generateServiceGuardConfig
KARAF-3580	FeaturesService expose register and unregister FeaturesListener methods
KARAF-3581	Optimize a bit startup time
KARAF-3582	command extension: if one class failed inspection is stopped
KARAF-3583	Add option to configure log level in the client script
KARAF-3584	Add metadata generation in the karaf-services-maven-plugin
KARAF-3585	Snapshots are not updated by the features service
KARAF-3586	Upgrade to pax-logging 1.8.2
KARAF-3587	Upgrade to pax-url 2.4.0
KARAF-3589	karaf-maven-plugin doesn't allow specifying a version for a boot feature in etc/org.apache.karaf.features.cfg
KARAF-3590	Don't log Passwords in clear text
KARAF-3592	Add jaas commands to create group and list group
KARAF-3594	Upgrade to Aries JMX Core 1.1.3
KARAF-3595	Upgrade to Aries Transaction JDBC 2.1.1
KARAF-3598	Upgrade to bundlerepository 2.0.4
KARAF-3599	Upgrade to configadmin 1.8.2
KARAF-3600	Upgrade to felix utils 1.8.0
KARAF-3602	Upgrade to fileinstall 3.5.0
KARAF-3603	Upgrade to gogo runtime 0.16.2

Issue	Description
KARAF-3604	Upgrade to felix framework 4.9.0-SNAPSHOT
KARAF-3619	Add decanter feature repo to features.repo.cfg file for easier installation
KARAF-362	Add documentation how to build a custom karaf distribution including branding
KARAF-3621	Generate a more secure host key for SSH by default
KARAF-3622	Enhance SSH configuration mechanism
KARAF-3625	Password encryption doesn't work
KARAF-3627	Add bundle revision information to bundle:list command
KARAF-3629	Use the resolver service from the system bundle
KARAF-3632	Change transaction parameter in features
KARAF-3633	Help mechanism improvements
KARAF-3635	Provide a black list for features
KARAF-3638	karaf-maven-plugin:features-add-to-repository fails with NPE
KARAF-3643	Persistence provider features should not load aries.jpa
KARAF-3648	should zero out instance pid in instance.properties when we shutdown an instance from shell
KARAF-3650	diagnostic.boot should not depend to sun.misc package
KARAF-3652	Make RequestedState more obvious in API
KARAF-3653	Karaf can't be started in offline mode
KARAF-3656	SSH message channel closed too early
KARAF-3657	Upgrade to ServiceMix Specs 2.5.0
KARAF-3659	shutdown of karaf throws NullPointerException if jmx ssl keystore is not configured properly
KARAF-3660	Setting JMX SSL causes StringIndexOutOfBoundsException when setting keyPasswords without = symbol

Issue	Description
KARAF-3662	Unable to start on Windows
KARAF-3663	Unable to deploy KAR
KARAF-3666	Simplify Conditional#asFeature to have no arguments
KARAF-3667	Upgrade to sshd 0.14.0
KARAF-3668	ManagedServiceFactory update is not called after restart
KARAF-3669	Missing files in standard distribution
KARAF-3670	The client may use a group definition as the default user
KARAF-3671	Clean up karaf-maven-plugin goals
KARAF-3672	Commands are missing from the manual
KARAF-3673	Align classmate version between hibernate and hibernate-validator features
KARAF-3674	Document and improve scheduler feature
KARAF-3679	Change current documentation from Scalate to AsciiDoc
KARAF-3681	Upgrade to Aries Subsystem API 1.1.0/Core 1.2.0
KARAF-3682	Upgrade to Felix maven-bundle-plugin 2.5.4
KARAF-3684	Karaf Manual doesn't contain Package-Imports
KARAF-3686	Upgrade to Pax Exam 4.5.0
KARAF-3687	Upgrade to commons-compress 1.9
KARAF-3688	Upgrade to Pax URL 2.4.1
KARAF-3691	Upgrade to Felix Metatype 1.0.12
KARAF-3692	Upgrade to Felix WebConsole 4.2.8
KARAF-3693	only update the instances.properties when the \"read\" operation detect instance pid changes
KARAF-3695	Upgrade to 4.1.2

Issue	Description
KARAF-3699	Upgrade to Felix ConfigAdmin 1.8.4
KARAF-3700	Upgrade to Felix Framework 5.0.0
KARAF-3701	Upgrade to Felix Resolver 1.2.0
KARAF-3702	Upgrade to Felix WebConsole Plugins Event 1.1.2
KARAF-3703	Unable to install ActiveMQ in Karaf 4 SNAPSHOT
KARAF-3704	Command jaas:groupadd allows adding duplicate groups
KARAF-3706	Exception at Karaf startup
KARAF-3707	Upgrade to Felix Framework 5.0.1/Resolver 1.4.0
KARAF-3709	The assembly builder should generate mvn urls for startup bundles
KARAF-3711	LDAP login module doesn't handle case where CN, OU, DC case doesn't match
KARAF-3712	Make cave usable with Karaf 4
KARAF-3713	JDBC generic datasource doesn't use the correct username property
KARAF-3722	Feature resolver change bundles package export
KARAF-3723	avoid the NoSuchElementException when use bin/client and there's no entry in the etc/user.properties
KARAF-3731	Upgrade to Spring 4.1.6_RELEASE
KARAF-3735	Upgrade to Pax Logging 1.8.3
KARAF-3738	Karaf client should be able to read environment variables
KARAF-3739	Add eventadmin feature as featuresBoot in standard distribution
KARAF-374	Clean up commands and remove System.out from them, simplify JANSI usage.
KARAF-3744	Configure the Felix logger correctly
KARAF-3747	jndi:alias prefix a name with a /
KARAF-3749	Add support for the Narayana Transaction Manager

Issue	Description
KARAF-3751	Upgrade to felix connect 0.1.0
KARAF-3752	Check that resolver does not mandate required services to be present
KARAF-3753	Child instances can't resolve libs in child system folder
KARAF-3754	Child instances should honor bundle overrides in root
KARAF-3755	shell.support.table.ShellTableTest broke build on Windows
KARAF-3756	Upgrade to Pax CDI 0.12.0
KARAF-3759	Provide tooling to store a resolution attempt that failed so that it can be replayed offline for analysis
KARAF-3761	Build and test fail on Windows
KARAF-3763	Release Apache Karaf 4.0.0.M3
KARAF-3764	Features Service Refresh
KARAF-3765	Eventadmin logs warnings about wrong values
KARAF-3767	Generic JDBC datasource should use 1 instead of WHEN_EXHAUSTED_BLOCK
KARAF-3768	Unable to start child instance
KARAF-3779	Be able to define the copied location of the kar files
KARAF-378	Apache Karaf 3.0.0 Release
KARAF-3781	Provide an \"update/migration\" guide
KARAF-3783	NPE in karaf-maven-plugin features-export-meta-data
KARAF-3784	Kar hotdeployment doesn't work
KARAF-3790	Add comment with karaf.lock.dir property in etc/system.properties
KARAF-3791	Unable to connect to an instance with instance:connect command
KARAF-3792	Upgrade to Pax Web 4.1.3
KARAF-3793	WebConsole installs but it's not actually available

Issue	Description
KARAF-3794	Upgrade to equinox 3.10.2.v20150203-1939
KARAF-3796	Provide aries.jpa 2.0.0 and use feature for persistence-api
KARAF-3798	FeaturesServiceImpl not threadsafe
KARAF-3799	Add eclipselink feature
KARAF-3801	Upgrade to Pax Web 4.1.4
KARAF-3802	Disabling service requirements check for "old style" features
KARAF-3805	Distribution contains absolute path instead of mvn URL
KARAF-3811	Exception thrown when including the feature "feature" in Maven karaf:assembly goal
KARAF-3812	Exception caused by featuresRepositories property being set incorrectly
KARAF-3813	InvalidPathException thrown on karaf:assembly Maven goal
KARAF-3819	bundle:list command is not able to be executed from client script
KARAF-3821	dev:dump-create doesn't include feature.txt anymore
KARAF-3823	introduce karaf.secured.command.compulsory.roles system property
KARAF-3825	Add ability to shutdown Karaf with a disabled shutdown port
KARAF-3830	karaf-services-maven-plugin ignores certain files
KARAF-3831	Broken link to 4.0.0 documentation
KARAF-3833	Project org.apache.karaf.jpa:hibernate does not have name set in pom.xml
KARAF-3837	The installation of the activemq feature is not stable wrt to the resolver
KARAF-3842	Avoid possible leaks with servlet events
KARAF-3843	Get rid of blueprint dependency in the web console
KARAF-3846	Version number not correct for the subsystems feature
KARAF-3850	Better support for extension fragments

Issue	Description
KARAF-3853	Use configured Java path to startup wrapper
KARAF-3858	Add systemd support in the wrapper
KARAF-3859	bin/client script should go in interactive way to prompt the password when the \"-u\" option is used
KARAF-3860	fix [KARAF-3373] Log lower level root cause exception in LDAPLoginModule.doLogin()
KARAF-3871	Offer bundle:diag (without args) output via JMX
KARAF-3879	jdbc feature should installs pax-jdbc feature
KARAF-3880	Provide a standard feature just wrapping all boot features from the standard distribution
KARAF-3882	karaf should permit alternative host key formats
KARAF-3885	Memory leak when use interactive client shell
KARAF-3886	should escape specify characters in ROLE names
KARAF-3888	Karaf refreshes a lot of unrelated bundles during feature installation
KARAF-3891	Add JTA 1.2 features
KARAF-3893	Unable to start offline container
KARAF-3894	Still class cast exception for LazyLocalResourceImpl ⇒ LocalResourceImpl
KARAF-3896	KAR Deployer not using karaf.data property, hardcoded to \"data\"
KARAF-3899	PID file for child instances not getting written when dir has spaces
KARAF-3906	NPE when doing log:clear and log:display and log full=true
KARAF-3908	shell:new does not work for most classes
KARAF-3910	Client.sh references nonexistant mina-core jar
KARAF-3911	bin/client and ssh doesn't work in interactive mode (can't type only one character)
KARAF-3912	Make default client log level configurable

Issue	Description
KARAF-3913	Provide Spring 4.2.0.RELEASE feature
KARAF-3914	Upgrade to Spring 4.1.7.RELEASE
KARAF-3915	Upgrade to Spring 3.2.14.RELEASE
KARAF-3917	bundle:list does not work from gogo webconsole.
KARAF-3918	An installed blueprint.xml has always been updated and restarted when install another unrelated feature
KARAF-3919	Upgrade to JPA 2.1.0
KARAF-3920	Provide OpenJPA 2.4.0 feature
KARAF-3922	Upgrade to jline 2.13.1
KARAF-3923	Karaf opens RMI port even when not using the management feature
KARAF-3924	Upgrade to transaction.blueprint 1.1.1
KARAF-3925	Release Apache Karaf 4.0.1
KARAF-3926	Several transaction manager versions are installed
KARAF-3927	karaf-maven-plugin:assembly goal should chmod bin shell scripts a+x
KARAF-3928	karaf-maven-plugin:archive goal should support a pathPrefix config setting to control the prefix added to each entry in the archives that are produced.
KARAF-3929	Syncop LoginModule throws a StringIndexOutOfBoundsException if the user has no roles
KARAF-3930	When starting the gogo shell in the webconsole the user is not fully authenticated
KARAF-3932	Upgrade to Pax-Web 4.2.0
KARAF-3934	Update Apache Directory + make use of random port generation
KARAF-3936	Stray TODO in production docs
KARAF-3943	Upgrade to Aries Util 1.1.1
KARAF-3945	Don't try and set permgen settings in Java 8

Issue	Description
KARAF-3946	LDAP role mapping too sensitive to extra whitespace
KARAF-3947	Upgrade to Aries Blueprint Core 1.4.4 & Aries Blueprint CM 1.0.7
KARAF-3948	Upgrade to commons-compress 1.10
KARAF-3952	Be able to provide full ObjectName to registerMBean()
KARAF-3954	Convey terminal size changes through SSH
KARAF-3956	should also add xalan into the endorse folder of distributions
KARAF-3961	Reference to generated featuresRepositories is invalid on Windows
KARAF-3962	Client can't use properties defined in custom.properties
KARAF-3963	Some slight improvements to the doc for the feature generation mojo.
KARAF-3964	cygpath call in \"start\" to convert CLASSPATH should first verify it's set
KARAF-3965	Calling Ctrl+D in Karaf console, when karaf asks if it is necessary to display all console commands, causes console not responding forever
KARAF-3968	The assembly mojo does not respect --offline
KARAF-3969	assembly goal has no way to set javase version
KARAF-397	Allow completion of non Karaf based osgi commands
KARAF-3971	log:tail and pressing Ctrl-D freezes karaf shell console
KARAF-3972	can't generate feature with prerequisite using karaf-maven-plugin
KARAF-3974	SSH :: impossible to connect through SSH after reboot clean
KARAF-3975	Wrong start-level for eclipselink adapter in eclipselink feature
KARAF-3976	Broken compatibility with 3.x jdbc DataSources
KARAF-3978	enable specify different shell.init.script env for remote shell in \"exec\" and \"shell\" mode
KARAF-3982	Be able to change standard files during distribution assembly
KARAF-3983	Failed to start openjpa bundle - javax.transaction.SystemException not found

Issue	Description
KARAF-3990	Missing documentation for debugging environment variables
KARAF-3994	karaf-maven-plugin is ignoring the feature version and installing all available versions of given feature in the repository.
KARAF-3996	bin/karaf does not set ulimit if MAX_FD_LIMIT=\"unlimited\"
KARAF-3997	Provide a RegionDigraphPersistence service
KARAF-3998	org.apache.felix.coordinator missing in transaction 1.3.0 feature
KARAF-4002	Karaf build on jenkins always fail at karaf-maven-plugin
KARAF-4003	Karaf jenkins build fails at apache-karaf-minimal as it can not find framework kar
KARAF-4005	Different locations for KARAF_HOME and KARAF_BASE
KARAF-4006	karaf-maven-plugin does not seem to use the local repository
KARAF-4007	Use official spec bundle for jdbc
KARAF-4009	Upgrade to Pax URL 2.4.3
KARAF-4010	Add feature repo for eclipsesource jaxrs
KARAF-4011	karaf-maven-plugin:features-add-to-repository NPE with blueprint:file: URL
KARAF-4012	On MacOSX, java_home check should be on 1.8
KARAF-4018	Add transaction.blueprint 2.0.0 to transaction feature
KARAF-4019	Upgrade jpa feature to 2.2.0
KARAF-402	Gather features and cmdhelp maven plugins into a generic karaf maven plugin
KARAF-4020	karaf-maven-plugin:archive doesn't respect an empty prefixPath
KARAF-4022	avoid the generated bundle file name too long in startup.properties
KARAF-4023	Upgrade to Pax Logging 1.8.4
KARAF-4024	role.policy \"group\" ceased to function
KARAF-4025	Update scr to 2.0.0

Issue	Description
KARAF-4026	Karaf wrapper:install produces a SPARC32 binary on Solaris x86_64
KARAF-4028	karaf-wrapper-main.jar generated by wrapper is corrupted
KARAF-4029	Karaf maven plugin assembly goal requires project artifact to be installed first
KARAF-403	Improve Bundle-Description header display
KARAF-4030	Doclint for Javadoc fails on JDK 8
KARAF-4031	Unresolved repository inside the feature causes Karaf freezing during startup
KARAF-4032	Karaf maven plugin assembly goal does not use repositories declared in pom.xml
KARAF-4033	Upgrade to Aries JMX 1.1.5
KARAF-4035	Upgrade to Aries Subsystem 2.0.2
KARAF-4037	Upgrade to maven-bundle-plugin 3.0.0
KARAF-4038	Upgrade to Felix BundleRepository 2.0.6
KARAF-4039	Upgrade to Felix ConfigAdmin 1.8.8
KARAF-404	Upgrade to felix maven-bundle-plugin 2.3.4
KARAF-4040	Upgrade to Felix EventAdmin 1.4.4
KARAF-4041	Upgrade to Felix Framework/Main 5.2.0
KARAF-4042	Upgrade to Felix Metatype 1.1.2
KARAF-4043	Upgrade to Felix Resolver 1.6.0
KARAF-4044	Upgrade to Felix SCR 2.0.2
KARAF-4045	Upgrade to Felix WebConsole 4.2.12
KARAF-4046	Upgrade to Felix WebConsole Plugins DS 2.0.2
KARAF-4047	Upgrade to Felix WebConsole Plugins Event 1.1.4
KARAF-4049	Upgrade to Easymock 3.4

Issue	Description
KARAF-4050	Upgrade to Pax Exam 4.6.0
KARAF-4051	Upgrade to Pax Web 4.2.2
KARAF-4052	Upgrade to Pax Tinybundles 2.1.1
KARAF-4053	Upgrade to ASM 5.0.4
KARAF-4055	karaf-maven-plugin: feature XML with a @ character
KARAF-4056	Developer-guide/extending: replace mvn archetype:create by generate
KARAF-4058	ssh:sshd command isn't available
KARAF-4060	Throw an error when removing a repo containing installed features
KARAF-4062	Karaf client does now work after installing BouncyCastle
KARAF-4065	Standard distribution doesn't ship the ACL files in the etc folder
KARAF-4066	Features command bundle should recover if FeatureService unavailable initially
KARAF-4068	Memory leak in SessionFactoryImpl class
KARAF-4069	ConsoleSessionImpl does not close the session in function close()
KARAF-407	Extend features:info command to display features description and details
KARAF-4070	Unable to install deployed features for bundle
KARAF-4072	Karaf shell not working properly in windows
KARAF-4077	Update to blueprint core 1.4.5
KARAF-4079	Karaf maven plugin doesn't support overriding configuration files
KARAF-4080	Karaf 3.0.5 demo POMs contain a few invalid path references
KARAF-4081	Karaf-Command 'diag' does not provide full information for Spring-DM bundles
KARAF-4082	.kar file generated by karaf-maven-plugin does not contain all jars (no offline support)
KARAF-4084	Only one flag could be used in list command

Issue	Description
KARAF-4085	Upgrade to Felix Framework 5.4.0
KARAF-4086	NPE in karaf-maven-plugin features-export-meta-data when there is no Manifest
KARAF-4087	Upgrade to Aries Subsystem 2.0.4
KARAF-4088	Upgrade to Felix Resolver 1.8.0
KARAF-4089	Upgrade to Felix WebConsole 4.2.14
KARAF-4090	Upgrade to Aries Subsystem 2.0.6
KARAF-4091	Support restarting the Karaf JVM and updating it's lib directory
KARAF-4096	Upgrade Jolokia to version 1.3.2
KARAF-4097	Upgrade to Spring 4.2.2.RELEASE
KARAF-4098	Upgrade to Pax Web 4.2.3
KARAF-4100	[karaf-3.0.x] Error resolving artifact of feature due to org.ops4j.pax.url.mvn.cfg not loaded yet
KARAF-4102	It should be possible to change the primary feature name to be other than the artifact id
KARAF-4105	karaf-assembly fails when used Maven versions do not match derived OSGi versions
KARAF-4117	Upgrade to Pax Web 4.2.4
KARAF-4118	Command service declaration doesn't work
KARAF-4119	la outputs results twice
KARAF-4126	Upgrade Cglib bundle to version 3.1_1
KARAF-4127	Missing license in Karaf-maven-plugin test-rename-main-feature file
KARAF-4129	Installing a feature with a fragment that attaches to pax-logging-api fails
KARAF-413	Tab completion on path when installing bundles
KARAF-4130	Use OSGi Resource repositories in features XML

Issue	Description
KARAF-4132	assembly archetype should remove runtime scope to the standard features XML
KARAF-4134	karaf-maven-plugin mixes up prerequisites
KARAF-4135	Upgrade commons-collections to version 3.2.2
KARAF-4136	Upgrade Maven-bundle-plugin to version 3.0.1
KARAF-4138	wrapper:install doesn't work on Windows due to path issues in karaf.home and karaf.data
KARAF-4139	Bundles with activation policy lazy remain in status starting when run with equinox
KARAF-4145	KAR is created with defect maven metadata
KARAF-4146	Add option to show only package name in Package:imports and package:exports commands
KARAF-4147	karaf-maven-plugin: Add description of configuration property \"libraries\"
KARAF-4149	Upgrade to Derby 10.12.1.1
KARAF-415	Config commands do not support the use of Managed Service Factories
KARAF-4150	bin/status fails if KARAF_DEBUG is set
KARAF-4151	Upgrade Felix Coordinator to version 1.0.2
KARAF-4152	Resolution of relative URLs from OBR repositories not working when there are multiple URLs
KARAF-4155	Fall to feature start-level
KARAF-4157	Provide system script to start Karaf without service wrapper
KARAF-4159	FeatureResolver: Wrong dependencies installed
KARAF-4166	Add karaf.lock.slave.block property to prevent a slave instance to start
KARAF-4168	Upgrade to Pax Exam 4.7.0
KARAF-4174	NullPointerException when running obr:info on a bundle served by cave
KARAF-4180	Document overrides configuration

Issue	Description
KARAF-4182	Upgrade to Spring 4.2.3.RELEASE
KARAF-4184	ArgumentCompleter has incorrect check for enum type
KARAF-4185	Upgrade Pax-url to version 2.4.4
KARAF-4187	Make karaf-maven-plugin @threadSafe
KARAF-4188	Add support for Systemd's watchdog
KARAF-4189	Switch to log4j v2 by default
KARAF-4190	Upgrade to pax-logging 1.9.1
KARAF-4192	java.lang.ClassCastException in org.apache.karaf.features.internal.region.CandidateComparator
KARAF-4193	Add option to dev:dump-create command (and MBean) to exclude heap and thread dumps
KARAF-4196	Upgrade Cglib to version 3.2.0
KARAF-4197	Upgrade to blueprint.core-1.5.0, jpa-2.3.0, transaction.blueprint-2.1.0
KARAF-4198	Support m2e incremental build in karaf-services-plugin
KARAF-4207	Poor Error Handling: Empty Catch Block
KARAF-4210	Unreleased Resource: Streams
KARAF-4218	JAAS boot classes are not marked serializable
KARAF-422	If no version was found, features-maven-plugin try to create an artifact with a null version
KARAF-4220	Upgrade to eclipselink 2.6.1
KARAF-4226	Web Console is missing package exports for bundleinfo and i18n
KARAF-4227	Upgrade to Pax-exam 4.8.0
KARAF-4228	Upgrade to Aries Subsystem 2.0.8
KARAF-4230	Upgrade to Aries Blueprint Core 1.5.0

Issue	Description
KARAF-4233	Upgrade to Aries JPA Container 1.0.3
KARAF-4238	Upgrade to Pax URL 2.4.5
KARAF-4239	Upgrade to Pax-Logging 1.8.5
KARAF-424	Maven packaging for feature, kar, karaf-assembly; mojos based on geronimo server assemblies
KARAF-4240	Provide Asciidoc command help printer
KARAF-4242	Add apache artemis to repo-add shorthand list
KARAF-4243	Add apache ignite to feature repo:add shorthand
KARAF-4246	sshd 0.14.0 breaks client timeout
KARAF-4247	Issues with LDAP caching
KARAF-4252	scr feature doesn't install the WebConsole DS plugin
KARAF-4254	NPE when building karaf-assembly target with installAllFeaturesByDefault=false
KARAF-4255	karaf-maven-plugin does include unused feature conditional dependencies in assembly
KARAF-4258	Cleanup deprecated and unused properties
KARAF-4260	Setting karaf.clean.all = true breaks service wrapper service script
KARAF-4263	Require JDK 1.8
KARAF-4264	Upgrade to pax-web 6
KARAF-4266	Upgrade to Spring 4.2.4.RELEASE
KARAF-4267	Remove derby config from windows karaf.bat
KARAF-4270	Shell-compatible gets NPE trying to give help for combo of local and compat commands
KARAF-4271	Circular dependency not handled properly when a feature references itself directly
KARAF-4272	Karaf freezes when a circular dependency is introduced where a feature references itself over a chain of other features

Issue	Description
KARAF-4273	Add -o (--only-matching) option to grep command
KARAF-4275	StaticConfigurationAdmin and NPE with spring dm
KARAF-4277	System scripts: add option to configure the executable to use to start/stop karaf
KARAF-4278	clean not working
KARAF-4280	Feature config overwrites existing values
KARAF-4281	System scripts: provide Systemd templates to manage Karaf child instances
KARAF-4282	Wrapper set KARAF_DATA to null in the generated wrapper.conf file
KARAF-4286	Upgrade Felix Utils to version 1.8.2
KARAF-4287	Upgrade Felix Fileinstall to version 3.5.2
KARAF-4288	karaf-maven-plugin doesn't pass custom settings.xml option onto pax-url-aether
KARAF-4289	Upgrade to ServiceMix Specs 2.6.0
KARAF-4292	Upgrade Felix Eventadmin to version 1.4.6
KARAF-4293	SyncopeloginModule could potentially receive wrong message format
KARAF-4294	System scripts: Improve support for Solaris 10 init scripts
KARAF-4299	NoSuchElementException when clearing history
KARAF-4301	Upgrade Hibernate Validator to version 5.2.3.Final
KARAF-4307	Archive Mojo does not set permissions properly in bin if usePathPrefix=false
KARAF-431	Add documentation around remote management via JMX
KARAF-4311	karaf maven plugin does not respect -s setting on maven
KARAF-4314	karaf-maven-plugin issue when parsing feature xmls with <repository> entries that contain a newline and/or whitespaces
KARAF-4319	Completion does not work after semicolon
KARAF-432	Remove spring2 support from karaf features

Issue	Description
KARAF-4324	Shell commands and optional @Reference
KARAF-4328	Align group definition in users.properties and keys.properties
KARAF-433	Add documentation about KAR archive format and deployer
KARAF-4330	Instance script doesn't return correct PID number if root instance is started two times
KARAF-4335	Scripts attribute in ClientMojo is null by default.
KARAF-434	Add wrap deployer description in the deployer section of the Karaf user guide
KARAF-4340	System scripts: improve system scripts templates
KARAF-4343	Upgrade to Xalan 2.7.2_3
KARAF-4345	Upgrade to Jolokia 1.3.3
KARAF-4346	Support array of values with etc/*.config files
KARAF-4348	[RBAC] Wildcard PIDs chosen before more specific ones
KARAF-4349	Use the same approach of KARAF-4330 in karaf.bat script
KARAF-435	Add diagnostic documentation (dev:create-dump, etc) in the Karaf User Guide
KARAF-4351	[RBAC] Optimize access to JMXSecurityMBean.canInvoke(Map)
KARAF-4352	Upgrade Hibernate Validator to version 5.2.4.Final
KARAF-4353	Upgrade to Pax URL 2.4.6
KARAF-4354	Provide a bin/run script
KARAF-4357	OBR R5 Resources do not have Presentation Names
KARAF-4358	Spring feature forces the wrong jta version. Can cause an error if it is installed before transaction
KARAF-4359	Update Openjpa to 2.4.1
KARAF-4361	Allow dynamic config customization when embedding Karaf using the Main class

Issue	Description
KARAF-4362	Improve the maven assembly goal so that it can run at package phase instead of install phase
KARAF-4363	ssh:sshd command shows default values twice
KARAF-4366	system scripts : fallback to generic init script for unknown os
KARAF-437	Document jre.properties tuning
KARAF-4370	Provide commands for eventadmin
KARAF-4371	karaf shell scripts use "\"local\" which is not a posix compliant
KARAF-4372	Content assist for paths does not work correctly
KARAF-4373	Karaf.bat script produces "\"The syntax of the command is incorrect\" even if it is working properly
KARAF-4376	Make grep return the list of results rather than null
KARAF-4377	Refer to hibernate-validator feature repository instead of using the current one
KARAF-4379	Upgrade to Narayana 5.3.1.Final
KARAF-4381	Upgrade to maven-antrun-plugin 1.8
KARAF-4382	Upgrade to maven-assembly-plugin 2.6
KARAF-4384	Upgrade to maven-compiler-plugin 3.5.1
KARAF-4385	Upgrade to maven-dependency-plugin 2.10
KARAF-4386	Upgrade to maven-deploy-plugin 2.8.2
KARAF-4387	Upgrade to maven-eclipse-plugin 2.10
KARAF-4388	Upgrade to maven-enforcer-plugin 1.4.1
KARAF-4389	Upgrade to maven-gpg-plugin 1.6
KARAF-439	Provide documentation about the Karaf wrapper
KARAF-4390	Upgrade to maven-install-plugin 2.5.2
KARAF-4391	Upgrade to maven-jar-plugin 2.6

Issue	Description
KARAF-4392	Upgrade to maven-javadoc-plugin 2.10.3
KARAF-4393	Upgrade to maven-jxr-plugin 2.5
KARAF-4394	Upgrade to maven-project-info-reports-plugin 2.9
KARAF-4395	Upgrade to maven-release-plugin 2.5.3
KARAF-4396	Upgrade to maven-resources-plugin 2.7
KARAF-4397	Upgrade to maven-site-plugin 3.5
KARAF-4398	Upgrade to maven-source-plugin 3.0.0
KARAF-4399	Upgrade to maven-surefire-plugin and maven-surefire-report-plugin 2.18.1
KARAF-440	features-maven-plugin throws NullPointerException maven 3.0.2
KARAF-4400	Upgrade to maven-war-plugin 2.6
KARAF-4401	Upgrade to depends-maven-plugin 1.3.1
KARAF-4402	Upgrade to build-helper-maven-plugin 1.10
KARAF-4403	Upgrade to exec-maven-plugin 1.4.0
KARAF-4405	Upgrade to Felix Framework 5.6.1
KARAF-4406	Use javax.servlet-api 3.1.0 instead of Geronimo servlet spec
KARAF-4409	Upgrade to pax-jdbc 0.8.0
KARAF-4410	Upgrade to Aries JPA Container 1.0.4
KARAF-4411	FeatureResolver: spring-dm-web feature installs Spring ver 3.1.4 and 3.2.14 at the same time
KARAF-4412	system scripts : first line in solaris smf template should not be empty
KARAF-4413	Can't start karaf on solaris 10
KARAF-4414	Add LogAuditLoginModule and replace FileAuditLoginModule by default
KARAF-4415	karaf-maven-plugin - The feature validate goal is missing

Issue	Description
KARAF-4416	When reporting problems, the verify goal lists all bundles downloaded so far instead of just the ones from the failing feature
KARAF-4417	Display a summary for the verify goal
KARAF-4418	Ability to exclude a set of features from the verify goal
KARAF-4420	Ensure the maven plugin uses the same policy for service requirements
KARAF-4421	Upgrade to JLine 2.14.x
KARAF-4422	Ability to show wiring between features or all resources after a resolution
KARAF-4423	jaas: AutoEncryptionSupport can fail to shutdown
KARAF-4428	The bin/client script displays a badly formatted message from the AcceptAllServerKeyVerifier
KARAF-4429	JaxB marshalling failure due to endorsed java.lang.Exception
KARAF-443	Most of the blueprint bundles should be lazy by default
KARAF-4439	Prevent user authentication (shell & JMX) if he doesn't have role
KARAF-444	Upgrade to latest version of pax-url
KARAF-4441	Datasource config file created from feature.xml without instance suffix
KARAF-4442	Improve slightly misleading message after SNAPSHOT feature installation
KARAF-4446	Display error in the console. glued text
KARAF-4447	BUILDING (file) update distribution directory
KARAF-4449	Upgrade to Aries proxy-impl 1.0.5
KARAF-445	Add completion for shell aliases
KARAF-4450	Upgrade to Aries jmx-core 1.1.6
KARAF-4451	Upgrade to Aries blueprint-core 1.6.0
KARAF-4452	Upgrade to Aries blueprint-cm 1.0.8

Issue	Description
KARAF-4454	Resolve scr:list conflict between gogo and Karaf
KARAF-4456	Features repo without name breaks WebConsole features plugin
KARAF-4459	Upgrade Cglib to version 3.2.1
KARAF-446	Upgrade to Felix webconsole 3.1.8
KARAF-4460	New feature for Aries Blueprint Spring support
KARAF-4461	Upgrade to sshd 1.2.0
KARAF-4462	Allow control of attachment of generated assembly artifacts
KARAF-4464	Upgrade to Spring 4.2.5
KARAF-4465	Upgrade to Narayana 5.3.2.Final
KARAF-4469	Upgrade to Felix FileInstall 3.5.4
KARAF-447	Add JDBC lock implementation for PostgreSQL
KARAF-4472	Upgrade to Felix BundleRepository 2.0.8
KARAF-4475	Performing status check will wipe cache if karaf.clean.all/karaf.clean.cache is set
KARAF-4476	Upgrade to Aries Blueprint Core 1.6.1
KARAF-4477	Upgrade to Pax URL 2.4.7
KARAF-4479	Incorrect syntax in wrapper launch script karaf-service
KARAF-4482	Upgrade to Aries Blueprint CM 1.0.9
KARAF-4485	The failover page is not up to date regarding lock package
KARAF-4486	LDAPOptions sets Context.SECURITY_AUTHENTICATION only if username is provided
KARAF-4487	LDAPLoginModule and GSSAPI
KARAF-4489	Introduce a property in etc/org.apache.karaf.features.cfg to decide if <config/> should create cfg file or not
KARAF-449	Upgrade to PAX-WEB 1.1.0 (SNAPSHOT right now)

Issue	Description
KARAF-4492	Upgrade Apache Commons-compress to version 1.11
KARAF-4493	Add the option to specify customized branding for SSH
KARAF-4496	UserPrincipal lookup in the JAAS' BackingEngine
KARAF-4497	Upgrade to Apache ServiceMix Specs 2.7.0
KARAF-4499	Can't start a crashed server on Windows
KARAF-450	Add new web command for deploying and undeploying war archives
KARAF-4500	Refresh of the pax-logging-service cause log:* commands errors
KARAF-4504	Upgrade Pax Exam to version 4.9.0
KARAF-4505	Add dataSourceType option to jdbc:ds-create command.
KARAF-4509	Windows: if KARAF_DATA folder doesn't exist lets create it
KARAF-451	Trunk build is broken
KARAF-4510	Initial instance.properties file root location uses karaf.home instead of karaf.base
KARAF-4511	grep leaves around Ansi reset char sequence
KARAF-4512	Upgrade to Aries Blueprint Core 1.6.2
KARAF-4514	Add config:install command and MBean
KARAF-4517	bin/client ends with \"Failed to get the session\"
KARAF-4519	If an action does not have a @Command annotation, fallback to calling a description() method via reflection to get an Action's description
KARAF-452	Support bundle id ranges, symbolic name/version, and regex in shell start/stop etc commands
KARAF-4520	Add DigestPasswordLoginModule so PasswordDigest can work with Karaf JAAS realm
KARAF-4523	JMXSecurityMBean bulk canInvoke should be robust even if bulkQuery contains duplicate operations
KARAF-4524	SCTP class from JDK missing in jre.properties

Issue	Description
KARAF-4526	System scripts : Solaris SMS service not started if path contains spaces
KARAF-4533	Adds Kerberos support
KARAF-4537	Karaf Maven Plugin should respect scope when building a feature
KARAF-454	Upgrade Karaf to version 1.0.1 of pax-web
KARAF-4547	Embed resolver in features.core to avoid errors in bundle resolution when installing CXF as boot feature
KARAF-4548	Avoid extensive spifly logging
KARAF-455	Improve the confluence output for commands
KARAF-4551	wrapper:install on solaris lacks instructions to symlink scripts
KARAF-4554	Completion of the 'watch' command hangs Karaf
KARAF-4555	Update to jline 2.14.2
KARAF-4556	Upgrade to Aries Blueprint CM 1.0.9
KARAF-4557	Add config:property-get and getProperty operation on the ConfigMBean
KARAF-456	Artifact versions named in the documentation are not replaced with the version of the current project
KARAF-4563	Upgrade Cglib to version 3.2.2
KARAF-4564	Can't start karaf using symbolic link
KARAF-4566	"karaf" script invokes /bin/sh but requires /bin/bash functions
KARAF-4569	OSGi framework is not shut-down gracefully on SIGTERM
KARAF-457	Merge 2.2.x assemblies structure to trunk
KARAF-4570	Upgrade to jline 3
KARAF-4571	karaf-maven-plugin should respect version ranges when generating features repos
KARAF-4575	Re-add "install all" and "uninstall all" features repository options

Issue	Description
KARAF-4576	Upgrade to Narayana 5.3.3.Final
KARAF-4577	Use ServiceComponentRuntime api and provide a BundleStateService for DS
KARAF-4581	There is a typo in the description of the UserDeleteCommand
KARAF-4583	Upgrade to equinox 3.10.101.v20150820-1432
KARAF-4584	Update Exec Maven Plugin to version 1.5.0
KARAF-4588	Features service lost install options
KARAF-4589	Add bundle location in BundleMBean
KARAF-4590	Document environment variable reference from configuration files
KARAF-4591	UnknownFormatConversionException when version range determination fails during feature creation
KARAF-4592	Cleanup Aries JDBC Transaction 2.1.2 from the pom.xml
KARAF-4595	Log when shell startup is suppressed
KARAF-4596	log:tail doesn't correct correctly with jline 3
KARAF-4597	Avoid npe and exception logging in main module tests
KARAF-4598	Wrapper karaf-service should return 0 if the service is already running
KARAF-460	Add commands to manipulate kar archives
KARAF-4600	RBAC - MBean fails to resolve ACL if the order of properties in object name differs
KARAF-4603	Nashorn support in Karaf
KARAF-4606	Align jetty and pax-jetty version
KARAF-4607	Idap connection pool not created when using ssl (Idaps)
KARAF-461	dev:create-dump command should generate a cleaner zip file name
KARAF-4615	Cannot get OpenJPA 2.4.1 to work due to JPA 2.1 being installed
KARAF-4616	Upgrade to Felix SCR 2.0.6, SCR Compat 1.0.4, SCR Annotations 1.11.0

Issue	Description
KARAF-4620	ACL default configuration for feature:start/stop missing
KARAF-4622	Upgrade to Spring 3.2.17
KARAF-4623	Upgrade to Spring 4.1.9.RELEASE
KARAF-4624	Create Karaf component to create Activemq connection factories
KARAF-4626	Feature build fails when version-ranges are enabled and a transitive dependency needs system properties
KARAF-4628	Can not start karaf on linux
KARAF-463	Add chapter for Pax Web and the OSGi HttpService
KARAF-4630	Race condition in StreamPumper causes an infinite loop in it's deamon thread which prevents shell command from terminating
KARAF-4635	Upgrade Pax JDBC to version 0.9.0
KARAF-4636	karaf.secured.command.compulsory.roles does not work
KARAF-4637	LDAPLoginModule - add "\"trim usernames\"" option
KARAF-4638	Improve shell table output by using unicode box drawing characters
KARAF-4639	Add job control in the console
KARAF-4641	Possible problems with wrap jars in profiles
KARAF-4642	featuresBoot order is not honored
KARAF-4643	Fix the feature repositories default version to RELEASE / karaf.version
KARAF-4644	Pin Build to CXF 3.1.7
KARAF-4646	LdapPoolingTest fails with IBM JDK
KARAF-4648	Feature service-wrapper creates invalid SERVICENAME-wrapper.conf file
KARAF-4649	AssemblyMojo : blacklistPolicy set to null if not defined in pom
KARAF-465	Merge http with war feature
KARAF-4650	Can't authenticate to Web Container in non root instance

Issue	Description
KARAF-4651	Update tooling to use wagon-http to 2.10
KARAF-4652	ConcurrentModificationException and NullPointerException when starting Karaf
KARAF-4653	enable to build and run Karaf with JAVA9
KARAF-4654	Karaf shell command
KARAF-4655	karaf-maven-plugin add-features-to-repo goal can't add Camel feature
KARAF-4657	karaf-maven-plugin attach artifact multiple times
KARAF-4658	Allow defaultTargetFile to be overridden for any kind of packaging
KARAF-4659	Ability to disable ldap listeners
KARAF-4660	Fix typo in the wrapper:install output message
KARAF-4662	Unable to create Karaf Cave 4.0.0 Kar file
KARAF-4673	Rename karaf.shutdown.pid.file to karaf.pid.file
KARAF-4675	Upgrade to Narayana 5.3.4.Final
KARAF-4677	Karaf branding doesn't work anymore using branding bundle
KARAF-468	The admin InstanceImpl class should use the util properties for loading / storing rmiRegistryPort , sshPort
KARAF-4680	Karaf shell console (jline 3) leaves the terminal in \"bad\" state
KARAF-4681	System.setOut(null) in GrepTest cause other tests failure which need use System.out
KARAF-4682	avoid ConsoleSessionImpl thread running indefinitely
KARAF-4686	ClassLoader leak with RmiRegistryFactory and sun.rmi.transport.tcp.TCPEndpoint
KARAF-4687	ClassLoader leak with java.lang.Exception and karaf.exception library
KARAF-4688	jre.properties should export all JavaFX packages for JRE 1.8+
KARAF-469	Remove duplicate code
KARAF-4692	Inconsistent behavior towards Bundle-ManifestVersion

Issue	Description
KARAF-4693	shell:new issue with class wildcards
KARAF-4695	Unable to use http://karaf.apache.org/xmlns/shell/v1.0.0
KARAF-4700	Overrides and blacklist do not work by default and produce an exception
KARAF-4701	Problem installing feature
KARAF-4703	system-script: document bin/contrib
KARAF-4704	Unwanted variable interpolation in shell scripts
KARAF-4705	java.lang.ClassNotFoundException: org.jledit.ConcreteEditorFactory
KARAF-4709	use new JVM options with recent java9 kit
KARAF-471	would be nice for a "already exists" call to features:addurl to trigger a refresh
KARAF-4710	The feature service may not finish properly and leave bundles in the wrong state during boot install
KARAF-4712	Karaf assembly builder does not handle versions correctly
KARAF-4716	Upgrade to Aries Blueprint Core 1.7.0 and Aries Blueprint CM 1.0.9
KARAF-4717	Update webconsole.css to the latest one
KARAF-472	features-maven-plugin: TAB-characters in feature-repository lead to resolution-errors in add-features-to-repo
KARAF-4720	NamespaceHandler implementations hijack namespaces
KARAF-4723	Karaf sometimes will prioritize bundles in deploy folder at first start regardless of run level
KARAF-4726	Improve os-integration doc
KARAF-4727	SCR bundle state should not report SATISFIED components
KARAF-473	Support version resolving in FeatureService#getFeatures(name/version)
KARAF-4731	Upgrade Felix Framework 5.6.0 and Resolver 1.10.0
KARAF-4737	Bundle start attribute in features XML is ignored

Issue	Description
KARAF-4739	Rebooting Karaf can cause some bundles to not resolve anymore
KARAF-4740	Upgrade to pax-logging 1.9.0
KARAF-4743	Upgrade Cglib to version 3.2.4
KARAF-4744	Upgrade to Narayana 5.3.5.Final
KARAF-4745	MBean may loose all information when throwing exceptions
KARAF-4746	Upgrade to Pax-Web 4.4.0
KARAF-4748	Make Felix Resolver Threads configurable
KARAF-4751	Upgrade to jansi 1.14
KARAF-4752	Support for logback configuration
KARAF-4758	Upgrade to Aries Transaction Manager 1.3.1
KARAF-476	The admin-command should be extended to handle RMI-server-port settings
KARAF-4760	Upgrade to Felix FileInstall 3.5.6
KARAF-4762	Upgrade to PaxUrl 2.5.1
KARAF-4764	Provide ability to configure RmiRegistryFactory create and locate options
KARAF-477	Karaf console should gracefully handle errors due to the history file being read only.
KARAF-4770	Update etc/org.apache.karaf.management.cfg
KARAF-4773	Leverage smart download retries from pax-url-aether 2.5.0
KARAF-4774	Remove gemini-blueprint support
KARAF-4775	Implement a thread top command
KARAF-478	Subclasses of Console should be able to change the history file.
KARAF-4780	Migrate SCR demos to the standard OSGi annotations
KARAF-4781	Support auto loading multiple initialization scripts

Issue	Description
KARAF-4782	Encoding is lost in ssh print streams
KARAF-4783	Upgrade to Pax CDI 1.0.0.RC2
KARAF-4784	OsgiConfiguration for JAAS should fallback to default configuration
KARAF-4785	Use the scr gogo commands and provide completion
KARAF-4786	Upgrade to Aries Blueprint Core 1.7.1
KARAF-4787	Remove the generate goal and add the verify goal from the feature packaging
KARAF-4788	Upgrade to Aries JXM Core 1.1.7
KARAF-4789	Upgrade to Pax Exam 4.9.2
KARAF-4790	Upgrade to felix framework security 2.6.0
KARAF-4795	Expose timeout related options for pax-url-aether 2.5.0
KARAF-4796	Possible NPE while installing features when using framework extensions
KARAF-4797	Upgrade to Aries Util 1.1.3
KARAF-4798	Upgrade to JLine 3.0.1
KARAF-480	Minor ansi issue with admin:rename command
KARAF-4801	Remove some requirements for the verify goal
KARAF-4802	Auto Deploy does not release resource
KARAF-4803	Allow to turn off Karaf configuration persistence manager
KARAF-4805	configfiles are not copied to system directory
KARAF-4807	Upgrade Hibernate Validator to version 5.3.1.Final
KARAF-4810	karaf.bat / status.bat do not exit with a proper exit code
KARAF-4812	Upgrade to Felix ConfigAdmin 1.8.12
KARAF-4813	RMI should not listen to all hosts

Issue	Description
KARAF-4814	Special character in stop script
KARAF-4816	Upgrade to Eclipselink 2.6.4
KARAF-4820	wrapper:install command does not use ---include and --env parameters
KARAF-4821	enable to configure the external moduli-url for the sshd server
KARAF-4823	Upgrade Hibernate Validator to version 5.3.2.Final
KARAF-4824	Add Option to bundle:update which doesn't rewrite MANIFEST file
KARAF-4827	Cannot install feature depending on other 2+ levels of features with prerequisite="true"
KARAF-4828	Support OFF log level in log:set console command
KARAF-483	pax-web jetty.xml configfile should contain default security realm
KARAF-4830	Karaf does not start with staged features in etc/org.apache.karaf.features.cfg
KARAF-4834	Infinite loop if Exception occurs during the execution of karaf.shell.init.script
KARAF-4835	Add content assist for paths in shell:source command
KARAF-4836	Incorrect behaviour of the auto-completion of file path in command export-bundles
KARAF-4837	Session#readLine should not append to history
KARAF-4839	Infinite System bundle restart on feature deployment
KARAF-484	Upgrade to Felix Framework 3.0.9
KARAF-4841	Add support for Felix httpLite
KARAF-4842	Karaf Maven Plugin builds features with invalid configuration
KARAF-4843	Updating factory configuration leads to new configuration instance
KARAF-4845	Cannot start karaf with JRE 9
KARAF-4846	Property karaf.etc must be a canonical path
KARAF-4847	Cannot start feature pax-jetty with JDK 9

Issue	Description
KARAF-4848	Upgrade Hibernate Validator to version 5.3.3.Final
KARAF-485	Karaf MBeans are not registered
KARAF-4852	Minor issues with start script
KARAF-4853	Option to prevent execution as root
KARAF-4854	Enable archetype.test.skip on fastinstall profile
KARAF-4855	Upgrade to commons-compress 1.12
KARAF-4856	Upgrade to maven-bundle-plugin 3.2.0
KARAF-4857	Upgrade to Felix EventAdmin 1.4.8
KARAF-4858	Upgrade to Felix Resolver 1.10.1
KARAF-4859	Upgrade to Felix Utils 1.8.4
KARAF-4860	Upgrade to Felix WebConsole 4.2.16
KARAF-4861	Upgrade to sshd 1.4.0
KARAF-4862	Upgrade to jline 3.1.0
KARAF-4863	Trim down the number of configuration files in apache-karaf-minimal and static framework
KARAF-4864	Change the default Karaf client log Level to 0
KARAF-4865	Karaf startup no longer works on platforms without <code>"readlink"</code>
KARAF-4866	detect JVM vendor and ensure correct saaj factories is picked up when it's IBM JDK
KARAF-4868	Encoding problems in CLI with shell table output
KARAF-4869	Instance start failed.
KARAF-487	Improve <code>--help</code> information for <code>obr:list</code>
KARAF-4870	Store the wiring in the output file when using <code>"feature:install --store"</code>
KARAF-4871	LDAPLoginModule NPEs if no role filter is specified

Issue	Description
KARAF-4872	Karaf build failed when assembly the minimal distribution
KARAF-4875	bundle:list should limit the table size to the terminal width
KARAF-4876	Allow an empty role.query for the JDBCLoginModule
KARAF-4879	The log:get command should display all loggers by default
KARAF-488	obr:list should also include the bundle-symbolic-name of the packages it lists as this is used to execute other OBR commands
KARAF-4886	Upgrade Hibernate Validator to version 5.3.4.Final
KARAF-4888	Upgrade to Pax-Web 6.0.0
KARAF-489	Upgrade pax-logging to 1.6.1
KARAF-4890	Upgrade to Spring 4.2.8.RELEASE
KARAF-4891	Provide Spring 4.3.5.RELEASE feature
KARAF-4892	Encode username in LDAPLoginModule to avoid \"code\" injection
KARAF-4897	Add an option to simplify bundle dependencies
KARAF-4898	Remove hibernate 3 support
KARAF-4900	karaf java9 build is broken since 9-ea+148
KARAF-4902	Create config from metatype defaults
KARAF-4903	Upgrade to Narayana 5.5.0.Final
KARAF-4904	instance:create should use next free ssh port
KARAF-4905	o.a.k.main.util.SimpleMavenResolver uses duplicate system repo
KARAF-4907	bin/status logging WARN every time
KARAF-4913	Upgrade to Pax-Web 6.0.1
KARAF-4918	Upgrade to Felix FileInstall 3.5.8
KARAF-4919	Upgrade to Aries Proxy 1.0.6

Issue	Description
KARAF-4920	Upgrade to Aries Transaction Manager 1.3.2
KARAF-4921	Upgrade to pax-logging 1.10.0
KARAF-4922	Upgrade to Jolokia 1.3.5
KARAF-4923	Upgrade to Eclipse Equinox 3.11.2 (Neon.2)
KARAF-4924	Upgrade to commons-compress 1.13
KARAF-4925	Upgrade to ant 1.9.7_1
KARAF-4926	Command \"shell wrapper:install\" not working
KARAF-4927	NamespaceHandlers should return null for unknown namespaces
KARAF-4928	Allow specifying a resource type when blacklisting
KARAF-4931	Static Profile generation fails if configfile element contains a placeholder
KARAF-4932	Remove blueprint compat and blueprint annotations bundles
KARAF-4933	Resolve maven versions when downloading maven artifacts during assembly
KARAF-4934	Allow blacklisting repositories
KARAF-4936	FeatureTest#repoRefreshCommand failure
KARAF-4944	Upgrade to Pax Web 6.0.2
KARAF-4945	ensure LDAPCache is cleared when jaas module bundle get reloaded
KARAF-4946	Upgrade to Spring 4.2.9.RELEASE
KARAF-4947	Upgrade to Spring 3.2.18.RELEASE
KARAF-4948	Upgrade to Felix SCR 2.0.8/SCR Annotations 1.12.0/DS WebConsole plugin 2.0.4
KARAF-4949	Karaf 4.0.8 doesn't work on Solaris 11
KARAF-4951	Incorrect Equals/HashCode implementation crashes Deployer
KARAF-4954	Upgrade to Aries JPA 2.5.0
KARAF-4956	Update pax jdbc to 1.0.0

Issue	Description
KARAF-4957	Move old features into enterprise-legacy and spring-legacy modules
KARAF-4958	bundle:list -s is too wide
KARAF-4959	Log messages duplicated in log:tail
KARAF-496	Karaf prompt displayed twice
KARAF-4960	Karaf exits when typing <code>"la "</code>
KARAF-4961	Legacy features should be in the default <code>org.apache.karaf.features.repos.cfg</code> file
KARAF-4962	Karaf itests are flaky on Jenkins
KARAF-4963	<code>"Old"</code> shell commands doesn't work anymore
KARAF-4964	Can't convert wrap URL used in shell commands
KARAF-4965	Upgrade to Pax Exam 4.10.0
KARAF-4967	Upgrade to Felix Resolver 1.12.0
KARAF-4968	LDAPLoginModule does not correctly implement login method
KARAF-4970	Problem when restoring the wiring for bundles with attached fragments
KARAF-4971	Upgrade to jline 3.1.3
KARAF-4972	Commands using the shell-compatibility layer appear twice in the completion proposal
KARAF-4973	Refactoring of features extension
KARAF-4974	service:list does not work if the service property <code>ObjectClass</code> returns an empty array
KARAF-4978	Features Subsystem leaks native memory
KARAF-4979	Features StaxParser and UrlLoader leak resources
KARAF-4980	OSGi framework capabilities: add all services
KARAF-4981	Upgrade to Aries Blueprint Spring (and Extender) 0.3.0
KARAF-4982	Remove packages already provided by the assembly builder through libraries

Issue	Description
KARAF-4983	Improve osgi.ee capabilities
KARAF-4985	Karaf does not start with JDK 9 in Windows
KARAF-4988	Refreshing a feature repository from webconsole fails
KARAF-4989	Make LDAPLoginModule role.mapping option understand also fqdn
KARAF-4991	Upgrade to Narayana 5.5.2.Final
KARAF-4993	Unsecured access to gogo console over web
KARAF-4995	Disable LDAP cache by default
KARAF-4996	Missing packages in created instances
KARAF-4997	The generator doesn't merge common entries between feature.xml and POM
KARAF-4998	Specify dependency/prerequisite features
KARAF-4999	Configfiles which are also POM dependencies end up duplicated
KARAF-500	Upgrade to Jetty 7.3.1
KARAF-5001	Upgrade to Felix Framework 5.6.2
KARAF-5002	Upgrade to Felix Configadmin 1.8.14
KARAF-5003	Possible bugs in the source code
KARAF-5004	Discover the artifact type instead of relying on the artifact type/classifier string (kar / features / bundle)
KARAF-5006	Upgrade to Hibernate 5.2.8.Final
KARAF-5008	Provide Maven diagnostic commands
KARAF-5009	Upgrade to JNA 4.3.0
KARAF-501	Upgrade to PAX Exam 1.2.4
KARAF-5010	Upgrade to Aries JPA 2.6.0
KARAF-5012	Upgrade to Felix Utils 1.9.0

Issue	Description
KARAF-5013	Upgrade to Felix WebConsole 4.3.0, DS Plugin 2.0.6, Event Plugin 1.1.6
KARAF-5016	Possible NPE while running <code>\log:tail\</code> in Karaf console
KARAF-5017	Random user used when running bin/client without -u option
KARAF-5018	Missing files in distribution created by instance:create
KARAF-5019	The source command doesn't work as before in karaf 4.1.0
KARAF-5022	The repo defines an unnecessary dependency to pax web
KARAF-5023	Improve config commands to better support substituted and typed properties
KARAF-5024	Upgrade to JLine 3.2.0
KARAF-5025	Upgrade to Gogo 1.0.4
KARAF-5026	Set <code>org.ops4j.pax.url.mvn.certificateCheck</code> to true by default
KARAF-5027	Missing jansi lib in the CLASSPATH of the client/client.bat
KARAF-5028	Set <code>java.io.tmpdir</code> when using the service wrapper
KARAF-5029	ensure Karaf can build and pass all tests with JDK9 latest EA kit
KARAF-5031	Subshell doesn't show in prompt
KARAF-5032	Upgrade to Pax Web 6.0.3
KARAF-5037	Upgrade to Aries Blueprint Core 1.8.0 and Aries Blueprint CM 1.1.0
KARAF-5038	Upgrade to maven-bundle-plugin 3.3.0
KARAF-5039	Upgrade to maven-assembly-plugin 3.0.0
KARAF-5040	Upgrade maven-compiler-plugin to 3.6.1
KARAF-5041	Upgrade to maven-dependency-plugin 3.0.0
KARAF-5042	Upgrade to maven-javadoc-plugin 2.10.4
KARAF-5043	Upgrade to maven-resources-plugin 3.0.2
KARAF-5044	Upgrade to maven-site-plugin 3.6

Issue	Description
KARAF-5045	Upgrade to maven-source-plugin 3.0.1
KARAF-5047	Upgrade to ServiceMix depends-maven-plugin 1.4.0
KARAF-5048	Upgrade to build-helper-maven-plugin 3.0.0
KARAF-5049	Upgrade to exec-maven-plugin 1.6.0
KARAF-5050	Update maven prerequisite version to 3.0.5
KARAF-5051	Command <code>"shell wrapper:install"</code> fails
KARAF-5055	Service wrapper shutdown timeout is not taken into account when Karaf's JVM is 'Stopped'
KARAF-5058	Use ttop implementation from JLine
KARAF-5059	The terminal size is not set correctly when connecting through SSH
KARAF-506	The config shell commands offer no way to delete a command
KARAF-5061	Upgrade to ServiceMix Specs 2.8.0
KARAF-5067	Add option not to register StandardManageableRegionDigraph
KARAF-5068	Update pax-jdbc to 1.0.1
KARAF-507	The config shell completer does not allow completion of factory based pids
KARAF-5070	Uninstall of asm causes bad refresh cascades
KARAF-5072	Add setting to ssh server for forcing a provided key
KARAF-5074	Support for typed config files (as in Felix ConfigAdmin config files) in features
KARAF-5075	Use the JDK provided StandardEmitterMBean
KARAF-5079	Log:tail does not print messages steadily
KARAF-508	The config:edit create does not allow the creation of factory configs
KARAF-5080	Use the full ttop command from gogo-jline
KARAF-5081	Fix problem with resource extraction from kar files

Issue	Description
KARAF-5082	Allow the use of external data for features configuration
KARAF-5085	Upgrade to Aries JPA 2.6.1
KARAF-5087	Upgrade to Spring 4.3.7.RELEASE
KARAF-5089	GuardingEventHook may stop filtering listeners if one of the bundles is not valid
KARAF-509	The config:update command does not save factory configurations to the correct file
KARAF-5090	Update equinox to 3.11.3
KARAF-5091	log:get does not show correct level
KARAF-5094	Remove -server option in Karaf scripts
KARAF-5096	Karaf 4.1.1 Console Issues Over SSH (PuTTY)
KARAF-510	maven dependency structure should match feature contents
KARAF-5102	org.ops4j.pax.logging.cfg contains non-ASCII character
KARAF-5103	Quick start fails at the step \"feature:install camel-spring\"
KARAF-5104	karaf:run should support a features set
KARAF-5105	Issue with bin/shell command in karaf 4.1.1
KARAF-5106	karaf-maven-plugin hangs the build (probably when having cyclic deps in the features def)
KARAF-5107	Allow hooking into the feature installation process
KARAF-5109	endorsed and ext directories are not set properly when using instance start
KARAF-5112	Upgrade to jansi 1.16
KARAF-5113	Upgrade to jline 3.3.0
KARAF-5114	Upgrade to gogo 1.0.6
KARAF-5116	Defining karaf.log.console as a log4j2 log level causes exceptions
KARAF-5118	Make SSHD server threads configurable

Issue	Description
KARAF-512	WebConsole installation failed due to missing jetty-jaas feature
KARAF-5121	blueprint created by jms:create is not correct
KARAF-5123	Executing feature:repo-remove can leave karaf in an invalid state
KARAF-5124	NPE when location information is included in console logging pattern
KARAF-5125	Upgrade to Narayana 5.5.6.Final
KARAF-5126	Use awaitility and matchers in JmsTest
KARAF-5128	Upgrade to aries.proxy 1.1.1
KARAF-5129	JMS Pooling and better Artemis support
KARAF-513	The ssh:ssh and admin:connect command do not allow passing a command to execute
KARAF-5131	XA + JMS support
KARAF-514	When starting a child instance, there's no way to wait until it's started
KARAF-5143	Command cannot be executed via SSH when property <code>"karaf.shell.init.script"</code> (etc/system.properties) has its default value
KARAF-5146	Upgrade to Narayana 5.6.0.Final
KARAF-5147	Upgrade to pax-web-6.0.4
KARAF-5148	Replace use of org.json
KARAF-5149	Upgrade to JNA 4.4.0
KARAF-5150	Upgrade to Aries Blueprint Core 1.8.1
KARAF-5151	Upgrade to Aries Transaction Manager 1.3.3
KARAF-5152	Upgrade to commons-compress 1.14
KARAF-5153	Upgrade to Felix BundleRepository 2.0.10
KARAF-5154	Upgrade to Felix Framework 5.6.4
KARAF-5155	Upgrade to Felix HttpLite 0.1.6

Issue	Description
KARAF-5157	Upgrade to Felix Resolver 1.14.0
KARAF-5158	Upgrade to Felix SCR 2.0.10
KARAF-5159	Upgrade to Felix WebConsole 4.3.4
KARAF-516	Upgrade to felix eventadmin 1.2.10
KARAF-5160	Upgrade to Equinox Region 1.2.101.v20150831-1342
KARAF-5162	Code can be simplified using new Map methods
KARAF-5164	karaf-maven-plugin fails to verify artifacts if only available within local reactor
KARAF-5165	Custom Distributions: Pax-Web gets installed twice
KARAF-5167	Instance etc folder is not sync automatically
KARAF-5168	Replace old-style loops with foreach loops or streams
KARAF-5169	Remove redundant type information
KARAF-517	Upgrade to pax-runner 1.6.1
KARAF-5170	Use try-with-resources
KARAF-5171	Upgrade to ServiceMix Specs 2.9.0
KARAF-5172	Add simple LDAPBackingEngine
KARAF-5173	Some tests could benefit from a common CallbackHandler
KARAF-5175	Provide a debugs option for the karaf script to make it easier to debug karaf startup sequence
KARAF-5176	Fix support for characters entered while executing a command
KARAF-5178	Code can be simplified using lambdas
KARAF-5179	Setting the karaf.restart.jvm property to true causes system halt commands to behave as reboots
KARAF-518	Unable to load features.xml with included schema attribute

Issue	Description
KARAF-5180	The framework is restarted and sometimes spits an exception when refreshing a fragment
KARAF-5181	NPE while running <code>"threads --tree"</code> command from console
KARAF-5182	Console command <code>log:list</code> returns <code>"null"</code>
KARAF-5184	ClassLoader leak when <code>org.apache.karaf.shell.core</code> bundle is refreshed
KARAF-5185	Karaf enterprise feature shall omit the <code>jpa</code> feature in favor of the <code>aries-jpa</code> feature
KARAF-519	Jline behavior problem when pasting long lines
KARAF-5196	Strongly consider removing <code>-XX:+UnsyncloadClass</code> from start scripts
KARAF-5197	Features deployed from a KAR file do not respect the feature's install setting
KARAF-5199	Karaf installs both version of the feature (old and new) in case if referencing feature contains wrapped bundle with package import
KARAF-52	Provide shell commands for SCR
KARAF-5203	KAR:Create missing bundles that are marked conditional
KARAF-5205	Add <code>-r/--refresh</code> option to <code>bundle:update</code> command
KARAF-5206	Karaf doesn't start after not clean reboot, because stored PID corresponds to running process
KARAF-5207	Features 1.4 namespace not supported by the features deployer
KARAF-5208	Improve <code>feature:install</code> error message
KARAF-5211	NPE in <code>StoredWiringResolver</code> if <code>BundleEvent.UNRESOLVED</code> handled before <code>BundleEvent.RESOLVED</code> event
KARAF-5216	Exiting karaf shell, mess the bash shell
KARAF-5219	Upgrade Narayana to version 5.6.2.Final
KARAF-522	Download from provisioning server retry
KARAF-5221	<code>karaf-maven-plugin</code> 's <code>pidsToExtract</code> handled incorrectly

Issue	Description
KARAF-5222	Make possible to force the start of a karaf instance even if another one has been detected as running.
KARAF-5223	\\"Error in initialization script\\" messages printed to the main console when clients connect through ssh
KARAF-5225	Add Narayana dependencies to DependencyManagement
KARAF-5226	Add Hibernate-validator dependency to DependencyManagement
KARAF-5227	Use an explicit Awaitility version property
KARAF-5229	The download manager may generate wrong jar with custom urls
KARAF-523	Allow maven style names in startup.properties
KARAF-5230	Support version range when installing features
KARAF-5231	Upgrade to jline 3.3.1
KARAF-5234	Update BUILDING file to reference Java 8
KARAF-5235	Remove null values from AssemblyMojo configuration
KARAF-5241	Improve RBAC logging for JMX
KARAF-5243	add -p option for bin/client
KARAF-5245	Running karaf.bat inside a \\"Program Files (x86)\\" directory
KARAF-5246	Karaf shell command crashes on tab-completion when quotes are used
KARAF-5247	java.lang.InterruptedExpection after logout command in shell
KARAF-5248	Upgrade to blueprint-core 1.8.2
KARAF-5249	Upgrade to blueprint spring 0.4.0
KARAF-525	Bundles listed in etc/startup.properties should only installed the first time
KARAF-5250	SNAPSHOT metadata doesn't match SNAPSHOT artifacts after mvn deploy
KARAF-5252	Upgrade Narayana to version 5.6.3.Final
KARAF-5253	Update pax-jdbc to 1.1.0

Issue	Description
KARAF-5255	Upgrade to pax-web-6.0.6
KARAF-5256	Upgrade to Felix SCR 2.0.12
KARAF-5257	Upgrade to sshd 1.6.0
KARAF-5264	Clean up maven dependencies
KARAF-5266	log commands should limit number of lines printed instead of number of log entries
KARAF-5267	Karaf does not work correctly after log:tail
KARAF-5268	Upgrade to commons-logging 1.2
KARAF-5269	Upgrade to commons-lang3 3.6
KARAF-527	The console bundle should indicate it provides the gogo related services
KARAF-5271	Improve JDBC generic lock to better support network glitches
KARAF-5272	Enhance the features deployer so that it performs a real upgrade
KARAF-5273	karaf-maven-plugin assembly should take feature wildcards
KARAF-5276	Do not use right prompt by default
KARAF-5278	Update to felix framework 5.6.6
KARAF-5279	InterruptedException when updating the shell.core bundle
KARAF-528	Error while using correct feature descriptor in features-maven-plugin
KARAF-5280	Shell should not display the welcome message again when it is restarted
KARAF-5281	Upgrade to Spring 4.3.10.RELEASE
KARAF-5282	SyncopeloginModule should support Syncopex 2.x response format
KARAF-5286	Separate server key generation from key reading
KARAF-5287	Provide a way to hide passwords in shell
KARAF-5289	Upgrade to jline 3.4.0

Issue	Description
KARAF-529	Upgrade to Pax URL 1.3.2
KARAF-5291	Upgrade Narayana to version 5.6.4.Final
KARAF-5292	unneeded dependency to dbcp in eclipselink feature
KARAF-5293	Upgrade to Apache POM 18
KARAF-5294	Cleanup Maven repository
KARAF-5298	config:update doesn't create the cfg file in the etc folder
KARAF-530	Rename org.apache.karaf.assemblies/apache-karaf to org.apache.karaf/apache-karaf
KARAF-5300	FeaturesService should use more specific classes for model
KARAF-5304	checkRootInstance function in karaf script fails under AIX
KARAF-5305	FeatureConfigInstaller writes incorrect config if append=true and file already exists
KARAF-5306	Add scheduler:trigger command
KARAF-5307	Add SchedulerMBean to mimic scheduler shell commands
KARAF-5308	Remove RepositoryImpl lazy loading as we always load it upfront anyway
KARAF-5309	Upgrade to directory server 2.0.0-M24
KARAF-5310	Upgrade to maven surefire plugin 2.20 to get colored output
KARAF-5311	NPE in karaf-maven-plugin when specifying descriptor by file url
KARAF-5312	bin/stop script output some unwanted message on mac
KARAF-5314	The performance of profile builder used by karaf maven plugin has reduced significantly in 4.1 compared to 4.0
KARAF-5315	Race condition during shutdown using SIGTERM
KARAF-5316	Jaas Encryption should be easier to use
KARAF-5317	"Exception in thread \"SIGWINCH handler\" java.lang.UnsupportedOperationException\" occurs when resizing the console while log:tail is run

Issue	Description
KARAF-5319	the jetty feature in karaf shouldn't depend on pax-jetty feature
KARAF-5320	Karaf Command Arguments escapes backslash characters
KARAF-5324	Versions are not cleaned anymore when creating version ranges
KARAF-5327	Threads not stopped on karaf.restart + bundle(0).stop()
KARAF-5328	NPE is thrown when execute source command from client/ssh
KARAF-533	Improve depdencny handling to manual
KARAF-5330	Require a specific role to access the SSH console
KARAF-5331	Use shell command access control lists during command completion
KARAF-5332	bin/stop script fails when KARAF_DEBUG is set
KARAF-5337	karaf-maven-plugin generates an \"override.properties\" instead of \"overrides.properties\"
KARAF-5338	Unable to access the local JMX server on OSX
KARAF-5339	Allow to define blacklisted bundles in a profile
KARAF-534	Startlevel: Strange deployment behaviour
KARAF-5340	A \"Set<LocalDependency>\" cannot contain a \"Artifact\" in Dependency31Helper
KARAF-5342	No reference to branding-ssh.properties in console branding section
KARAF-5343	Upgrade to pax-web-6.0.7
KARAF-5345	Upgrade to pax-jms-0.1.0 and ActiveMQ 5.15.0
KARAF-5349	Upgrade to pax-jdbc-1.2.0
KARAF-535	Description for List command incorrectly claims Threshold default is -1
KARAF-5352	KARAF_ETC envvar ignored
KARAF-5354	The log:get and log:set commands should support etc/log4j2.xml configuration
KARAF-5355	The scripts triggered with {{scheduler::schedule}} command fail to execute

Issue	Description
KARAF-5357	Help string for feature:stop is incorrect
KARAF-5358	Upgrade to Felix Utils 1.10.2 and FileInstall 3.6.2
KARAF-5359	Upgrade to JLine 3.5.0
KARAF-536	Backspace no longer works in Putty after using 'connect' command to connect to other instance, and commands are printed in only 2 columns.
KARAF-5360	Upgrade to Felix Gogo Runtime / JLine 1.0.8
KARAF-5361	shell:watch is broken
KARAF-5363	Add --no-start option to kar:install, kar cfg and kar MBean
KARAF-5365	Upgrade to Aries Subsystem 2.0.10
KARAF-5366	Upgrade to Felix ConfigAdmin 1.8.16
KARAF-5367	Upgrade to Felix EventAdmin 1.4.10
KARAF-5368	Upgrade to Felix Framework & Main 5.6.8
KARAF-5369	Upgrade to Felix Metatype 1.1.4
KARAF-537	admin.bat prints stacktraces to standard out
KARAF-5370	Upgrade to Felix Resolver 1.14.0
KARAF-5371	Race condition between FeatureService and Fileinstall
KARAF-5373	Karaf-maven-plugin fails to create feature file
KARAF-5374	karaf-maven-plugin can't configure the start-level for the startupBundles
KARAF-5375	feature:stop command does not stop the bundles
KARAF-5376	Processor mechanism for feature definitions (a.k.a. \"better overrides\")
KARAF-5377	Speed up repository loading
KARAF-5380	Fix typo in JDBC lock implementation
KARAF-5382	Karaf shell session.readLine consumes backslashes

Issue	Description
KARAF-5384	Optional dependencies in MINA SSHD Core cause system bundle refreshes
KARAF-5388	create dump doesn't include log file anymore
KARAF-539	Document configfile xml tag of features
KARAF-5394	maven-metadata-local.xml in KARs cause SAXParseException
KARAF-5395	Improve memory consumption during resolution
KARAF-5396	Ensure Karaf can build with JDK9 GA(build 9+181)
KARAF-5397	Remove org.apache.karaf.shell config from ssh feature
KARAF-5398	The "\"cd\" command should not attempt to complete multiple directories
KARAF-540	Add IdentificationUtils in Karaf utils
KARAF-5400	Remove usage of felix scr compatibility bundle
KARAF-5401	Upgrade to Aries Blueprint Spring 0.5.0
KARAF-5404	CLI autocompletion issue
KARAF-5407	Allow feature:info to print the xml for a given feature
KARAF-541	Support JMX SSL via etc/org.apache.karaf.management.cfg
KARAF-5411	Client doesn't prompt for user if no user.properties file
KARAF-5413	Missing explicit version in features
KARAF-5414	Features mentioned in feature.xml stubs aren't taken into account in dependency calculations
KARAF-5416	Remove support for ext and endorsed libraries for Java 9 compatibility
KARAF-5417	Trim down distributions
KARAF-5418	SSH public key authentication from LDAP
KARAF-5419	Upgrade to Aries Blueprint Core 1.8.3
KARAF-542	Support of next line with '>' character

Issue	Description
KARAF-5420	Bad console behavior when dealing with the input stream with the exec command
KARAF-5423	Karaf is flagged as vulnerable to CVE-2015-5262
KARAF-5426	Print type of wiring resource
KARAF-5427	Add RBAC support for reflection invocation and redirections in the console
KARAF-5429	Upgrade Narayana to version 5.7.0.Final
KARAF-543	Add manual section around log custom appenders
KARAF-5430	Upgrade to Spring 4.0.9.RELEASE & 4.3.12.RELEASE
KARAF-5431	Upgrade to Felix Gogo Runtime / JLine 1.0.10
KARAF-5432	Upgrade to Felix Utils 1.10.4 and FileInstall 3.6.4
KARAF-5435	BundleException when installing a bundle by API when the FeatureService install a feature
KARAF-5436	Factory configurations file in etc/ are not deleted when the configuration is deleted
KARAF-5437	Use named thread pools to help identifying threads
KARAF-5439	Upgrade Narayana to version 5.7.1.Final
KARAF-544	Documentation on how to use the JMX console
KARAF-5440	No override facility for properties in system.properties
KARAF-5443	Add a completer for bundle symbolic names
KARAF-5445	Completers should be followed by a space when complete
KARAF-5446	Fragment bundles are not resolved properly when installing/restarting the container
KARAF-5447	Support Spring 5.0.x
KARAF-5448	Fix Java 9 warnings
KARAF-5455	remove redundant sshRole comment

Issue	Description
KARAF-5456	introduce a property <code>karaf.shell.history.file.maxSize</code> to configure the history file size on disk
KARAF-5458	<code>karaf-maven-plugin</code> fails to assemble artifacts if only available within local reactor
KARAF-546	Null point exception when executing <code>log:display</code> on an empty log
KARAF-5461	incorrect filter in <code>EncryptionSupport</code> of <code>jaas</code> modules
KARAF-5464	<code>karaf.bat</code> file is missing <code>KARAF_SYSTEM_OPTS</code> property
KARAF-5467	Karaf doesn't recognize Java 9 on Ubuntu 16.04
KARAF-5468	Clean up <code>AssemblyMojo</code>
KARAF-5470	Karaf fails build with Java 9.0.1
KARAF-5473	Karaf SSH session timing out
KARAF-5475	Provide a security audit log
KARAF-5476	Reduce number of logins when using the webconsole
KARAF-5478	Provide a <code>Version</code> class to check Karaf version used.
KARAF-5485	Be able to disable the sftp server
KARAF-5486	Add a command to change job scheduling
KARAF-5488	Upgrade to Felix Framework 5.6.10
KARAF-5489	Upgrade to <code>commons-io</code> 2.6
KARAF-5490	Upgrade to <code>JNA</code> 4.5.0
KARAF-5491	Upgrade to <code>commons-compress</code> 1.15
KARAF-5494	Fix performance issue generating service metadata, change logging
KARAF-5495	Upgrade <code>SyncopeBackingEngineFactory</code> to support Syncope 2.x
KARAF-5496	NPEs in <code>SyncopeLoginModule</code> if <code>"version"</code> is not specified
KARAF-5498	<code>SyncopeLoginModule</code> parses roles instead of groups for Syncope 2.0.x

Issue	Description
KARAF-5506	ensure we also check the ACL for alias cmds before auto-completer
KARAF-551	Implement the shell:source command
KARAF-5511	Proper Provide-Capability for org.apache.karaf.jaas.modules.EncryptionService
KARAF-5516	Upgrade to commons-lang3 3.7
KARAF-5517	Upgrade to Apache Felix Metatype 1.1.6
KARAF-5518	Upgrade to Apache Felix WebConsole DS plugin 2.0.8
KARAF-5519	Upgrade to Apache Felix WebConsole EventAdmin plugin 1.1.8
KARAF-5520	Upgrade to Maven dependencies 3.5.2
KARAF-5521	Upgrade to Maven Wagon 3.0.0
KARAF-5522	Upgrade to easymock 3.5.1
KARAF-5523	Upgrade to Equinox 3.12.50
KARAF-5525	Upgrade to PAX tinybundle 3.0.0
KARAF-5527	the karaf.secured.command.compulsory.roles should only affect command ACL rules
KARAF-5528	Karaf feature deployer should stop refreshed bundles together with the updated ones
KARAF-5529	Rewrite SCR management layer to more closely follow the real object model
KARAF-553	Get place of jetty config with mvn url in sync
KARAF-5531	Upgrade to maven-compiler-plugin 3.7.0
KARAF-5532	Upgrade to maven-dependency-plugin 3.0.2
KARAF-5533	KarArtifactInstaller does not properly detect already installed KAR files
KARAF-5535	Upgrade to maven-javadoc-plugin 3.0.0
KARAF-5536	Upgrade to maven-war-plugin 3.2.0

Issue	Description
KARAF-5537	Upgrade to modello-maven-plugin 1.9.1
KARAF-5538	Upgrade to maven-invoker-plugin 3.0.1
KARAF-5539	Upgrade to maven-archetype-plugin 3.0.1
KARAF-554	Add karaf version in system properties and display in shell:info command output
KARAF-5541	ensure check the compulsory.roles even there's no ACL for a specific command scope
KARAF-5544	Provide bundle consistency report from custom Karaf distribution
KARAF-5546	incorrect acl rules for system:start-level
KARAF-5547	Blueprint namespace handlers cause warning to be printed
KARAF-5548	Improve the find-class command to support package names
KARAF-5549	Upgrade to JLine 3.5.4
KARAF-5550	Upgrade to pax-url 2.5.4
KARAF-5551	Upgrade to Pax Web 6.1.0
KARAF-5554	the karaf.secured.command.compulsory.roles shouldn't apply for alias commands
KARAF-5558	Be able to configure the Quartz Scheduler
KARAF-5559	log:tail kills ssh & karaf when root logger is in DEBUG
KARAF-5563	Enf-of-line display problem with the ShellTable on windows
KARAF-5565	Upgrade to Pax Web 6.1.1
KARAF-5566	Features installed through prerequisites lead to errors when uninstalling features
KARAF-5568	Karaf Commands cannot have return codes
KARAF-5569	Cannot pass commands to client script when sftpEnabled=false
KARAF-557	Feature: Failed to check to not install a bundle with the symbolic name contains attributes

Issue	Description
KARAF-5573	Karaf on Windows does not pass the version check when JAVA_HOME contains whitespace
KARAF-5574	Upgrade to Pax Web 7.0.0/Jetty 9.4.6
KARAF-5578	Add repo URL for sling
KARAF-558	Boot feature from configuration file, can contain some spaces; the name should be trimmed
KARAF-5581	bin/client -u karaf -p karaf can login if we enable jasypt for jaas
KARAF-5584	Upgrade to SSHD 1.7.0
KARAF-5585	Verify mojo configure pax-url-mvn with non existent settings.xml
KARAF-5586	Upgrade to Hibernate-validator 5.4.2
KARAF-5588	Increase max number of threads in the scheduler by default
KARAF-559	AdminService loses root flag for instances
KARAF-5591	Blacklisted features should be considered as dependencies and/or conditionals
KARAF-5593	karaf-assembly-plugin / builder could include only highest version number of dependent feature
KARAF-5595	Upgrade toJLine 3.6.0 and Jansi 1.17
KARAF-5596	Upgrade to Spring 5.0.3.RELEASE
KARAF-5597	Upgrade to Spring 4.3.14.RELEASE
KARAF-5599	Upgrade Narayana to version 5.7.2.Final
KARAF-560	Modify all console log commands to receive a \"logger\" argument.
KARAF-5602	Upgrade to Spring Security 4.2.4.RELEASE
KARAF-5604	karaf:features-generate-descriptor takes long when faced with complex feature dependencies
KARAF-5605	Upgrade to OpenJPA 2.4.2
KARAF-5606	Upgrade to EclipseLink 2.7.1

Issue	Description
KARAF-5607	Upgrade to Hibernate 5.2.9.Final
KARAF-561	Make obr:list output similar to osgi:list
KARAF-5610	Build problems with JDK9
KARAF-5611	karaf.bat still uses endorsed dirs with Java 9 install
KARAF-5612	Upgrade to blueprint-core 1.9.0, blueprint-cm-1.2.0, blueprint-spring-0.6.0 and blueprint-spring-extender-0.4.0
KARAF-5614	Add HttpRedirect/Proxy service with http:redirect/proxy command & MBean
KARAF-5616	Upgrade to SCR 2.0.14
KARAF-5617	Upgrade to JNA 4.5.1
KARAF-5618	Upgrade to Aries JMX Blueprint 1.2.0
KARAF-5619	Upgrade to Aries JMX Core 1.1.8 & JMX Whiteboard 1.2.0
KARAF-562	Config properties defined in <config> tag (features.xml) are loaded during each refresh
KARAF-5622	Upgrade to commons-compress 1.16.1
KARAF-5623	Upgrade to maven-bundle-plugin 3.5.0
KARAF-5624	Upgrade to jline 3.6.1
KARAF-5625	Upgrade to Pax Swissbox 1.8.3
KARAF-5627	Upgrade to PAX-JMS 0.3.0
KARAF-5629	Add new karaf commands shell:elif and shell:else
KARAF-563	Adjustable PermSize and MaxPermSize in karaf script
KARAF-5631	Upgrade to PAX-CDI 1.0.0
KARAF-5634	karaf/karaf.bat scripts do not handle lib.next → lib update correctly
KARAF-5635	Integrate WebConsole Memory Usage plugin
KARAF-5639	NPE during instance:start

Issue	Description
KARAF-564	Allow configuring features OBR resolver to resolve optional imports as well
KARAF-5641	Karaf boot scripts need to deal with JDK10 version patterns
KARAF-5645	Karaf crashes when using the character ']' in the console
KARAF-5646	Support env:XXX substitution missing for system.properties
KARAF-5647	start, stop, shell, status and client fail on Solaris Sparc 11
KARAF-5649	Add a feature for the manual
KARAF-565	junit bundle missing (required by dev commands)
KARAF-5658	Upgrade to Spring 5.0.4.RELEASE
KARAF-566	Build: Remove duplicate entries from build artefacts.
KARAF-5665	Sometimes the command description does not show when listing commands with \"TAB\"
KARAF-5667	Installing the audit-log feature never ends
KARAF-5668	Upgrade to JLine 3.6.2
KARAF-567	org.apache.karaf.jaas.config.impl accidentally exported?
KARAF-5671	Demo profiles still use \"old style\" pax-logging configuration
KARAF-5672	Servlets urls are displayed without the http context path
KARAF-5673	karaf-maven-plugin can be very long to apply profile
KARAF-5675	Upgrade to XBean 4.7
KARAF-5677	deploy goal throws NPE with artifactLocations is not provided
KARAF-5678	Existing configfiles (in kar) may be overwritten when building assembly
KARAF-5679	Upgrade to Hibernate Validator 6.0.9.Final
KARAF-568	minimal assembly: zip and tar.gz do differ in content

Issue	Description
KARAF-5680	Provide support for xml parsers deployed as bundle on Java 9
KARAF-5688	XML parsing fails when xerces is installed on JDK 8
KARAF-5692	Alias not honoured in config:edit --factory --alias
KARAF-5694	strip url to ensure it's a valid one which could download
KARAF-5696	Java detection is broken on windows
KARAF-572	Command to show all registered servlets and their contexts
KARAF-573	Print out that karaf has to be restarted if using framework with new framework
KARAF-574	Re-introduce export version in packages:exports command
KARAF-575	webconsole: branding isn't resolved, therefore the webconsole doesn't work anymore
KARAF-576	introduce start-level attribute for feature element in features.xml
KARAF-582	Upgrade Apache Mina to 2.0.3
KARAF-583	Karaf manual does not build with new karaf-maven-plugin
KARAF-584	Upgrade Karaf build environment
KARAF-585	When connected to a remote instance, Ctrl-C closes the connection instead of simply interrupting the command
KARAF-588	Some fixes to Karaf Site
KARAF-589	Shell console ExampleSubclassMain unit test is broken
KARAF-590	Upgrade to pax-logging 1.6.2
KARAF-591	Upgrade aopalliance ServiceMix bundle to 1.0_5
KARAF-592	Upgrade asm ServiceMix bundle to 3.3_2
KARAF-593	Upgrade cglib ServiceMix bundle to 2.1_3_7
KARAF-594	Upgrade commons-codec ServiceMix bundle to 1.3_4
KARAF-595	Upgrade commons-collections ServiceMix bundle to 3.2.1_2

Issue	Description
KARAF-596	Upgrade commons-lang ServiceMix bundle to 2.4_5
KARAF-597	Upgrade jasypt ServiceMix bundle to 1.7_3
KARAF-598	Upgrade junit ServiceMix bundle to 4.7_3
KARAF-600	"Extending the console" documentation still refers to org.osgi.service.command
KARAF-601	features:list does not show features of newly installed feature file
KARAF-605	Add param to Gogo Argument and Option to override default value with specific value
KARAF-606	JAAS: Allow LDAPLoginModule to supply role "DN" from LDAP group search
KARAF-607	Upgrade felix-framework to 3.2.1
KARAF-608	Allow for multi-stage boot features installation
KARAF-613	Upgrade to Blueprint 0.3.1
KARAF-614	Add warning to osgi:shutdown to avoid inadvertently shutting down the container
KARAF-622	Jaas Cancel command is not working
KARAF-623	Create a shell completer for jaas realms
KARAF-625	Missing property 'log4j.appender.out.file' in the file org.ops4j.pax.logging.cfg caused a NPE
KARAF-630	SpringDeploymentListenerTest fails on IBM JDK builds with No Class Def Found Error
KARAF-634	README file refers an incorrect contribution URL
KARAF-636	Support wildcards for instance:start/stop/destroy commands
KARAF-637	Update branding-console documentation to include the changes to custom.properties
KARAF-638	Use the same naming convention in commands
KARAF-645	Add a flag to suppress --help Option output on
KARAF-646	Upgrade to Jetty 7.4.1.v20110513

Issue	Description
KARAF-647	Support of sub-shell
KARAF-651	features-maven-plugin should \"embed\" the Karaf features descriptor
KARAF-653	Karaf minimal is missing the feature files.
KARAF-654	Merge jetty feature with jetty-jaas feature
KARAF-655	Remove http://repository.ops4j.org/maven2 from org.apache.karaf.management.cfg
KARAF-657	kar deployer should start the feature
KARAF-659	correct manuell about http-whiteboard feature
KARAF-662	Clarify relationship of config.properties and custom.properties
KARAF-663	features-maven-plugin add-features-to-repo should embed Karaf core features descriptor
KARAF-664	Use Wiki syntax in bundle.info instead of Ansi control sequences
KARAF-665	Rename karaf-maven-plugin goals
KARAF-667	Improve error message when OBR resolution fails due to invalid URLs
KARAF-668	The karaf web console doesn't list web contexts
KARAF-670	Missing \${karaf.base}/system cause NullPointerException
KARAF-671	http:list does not display the correct information
KARAF-672	Upgrade to felix event admin 1.2.12
KARAF-679	Update jansi to version 1.6
KARAF-682	upgrade to jetty 7.4.2.v20110526
KARAF-686	introduce an override flag to configfile element so that we get chance to not override the finalname if it already exist
KARAF-689	Karaf instance can wrongly obtain a lock when the locking table is empty on a Oracle DB
KARAF-690	install http feature will start both 8080 and 8181 jetty port

Issue	Description
KARAF-693	features:addurl raises "\"Premature end of file\" when network is not available
KARAF-694	Upgrade to Pax-Logging 1.6.3
KARAF-696	Add a macro allowing users to identify the contents of a specific config file.
KARAF-697	features:list shows the features that failed installation as installed.
KARAF-698	Technical edits to User's Guide
KARAF-699	Grammar fixes to source code files
KARAF-700	Updates to developer's guide
KARAF-705	Upgrade demos/web to use jdk 1.6 on the trunk.
KARAF-706	variable substitution doesn't work for system.properties
KARAF-711	Add documentation how to update Karaf
KARAF-712	Karaf's ls command does not represent URL objects correctly
KARAF-713	Refactor karaf main
KARAF-717	Refactor Actions to get services injected instead of fetching them
KARAF-718	Grep doesn't work when piped from features:listurl
KARAF-720	Make 3.0.x source JDK7 compliant for type handling.
KARAF-725	Read-only commands shouldn't ask for system bundle confirmation
KARAF-729	Karaf Maven Plugin source code cleanup
KARAF-733	Doc fixes to the quick start guide and overview page
KARAF-735	java.util.NoSuchElementException if issue the first command as an empty command
KARAF-737	The Karaf WebConsole should not only list Http contexts but also web contexts as in web:list
KARAF-751	Provide a Timer Service in Karaf
KARAF-752	Editorial fixes to the assemblies/ configuration files

Issue	Description
KARAF-753	commandlist --help points to help for jaas:pending
KARAF-754	shell:cat hyphen (\\"-\") option not activating STDIN.
KARAF-755	Recommended improvements to help commands
KARAF-756	Add ability to have KeyStoreManager to wait for SSL keystore to be fully initialize by other bundle through timeout
KARAF-757	upgrade to jetty 7.4.4.v20110707
KARAF-760	Minor time rendering bug
KARAF-762	dev:watch should support multiple bundle IDs
KARAF-764	Correct links to ops4j in documentation
KARAF-766	Wrong help for features:install
KARAF-767	Upgrade to Felix Framework 3.2.2
KARAF-768	Upgrade to Eclipse Equinox 3.6.2.R36x_v20110210
KARAF-769	Update NOTICE file to mention JSW
KARAF-770	Upgrade to Eclipse Equinox 3.7.1
KARAF-772	Cleanup Karaf assemblies
KARAF-773	KAR docu outdated
KARAF-776	jclouds features require OSS Sonatype repository
KARAF-781	Class RunnableServiceListener misspelled
KARAF-783	Improve security docs wrt role policies
KARAF-784	Add date in the default Karaf log
KARAF-786	Add more MBeans
KARAF-791	Upgrade paxurl to 1.3.5
KARAF-793	Upgrade paxrunner to 1.7.5

Issue	Description
KARAF-794	mvn eclipse:eclipse fails with maven plugin 2.8.
KARAF-795	Kar builder uses a different version for easymock then the rest of the project
KARAF-797	Upgrade to Pax Web 1.1.1
KARAF-800	karaf does not start when using java7
KARAF-802	Upgrade mail bundle version to 1.4.4.
KARAF-808	Remove author attribute tags from Karaf source code
KARAF-813	Install Pax URL OBR with the OBR feature
KARAF-816	Wrapper feature doesn't load security libraries
KARAF-817	Allow to set Karaf window name via parameter
KARAF-818	Allow JAVA_MAX_MEM, JAVA_PERM_MEM, JAVA_MIN_MEM, JAVA_MAX_PERM_MEM the same way as for linux startup file
KARAF-819	Rename Karaf features name (and sub-projects features name) to use full qualified name
KARAF-820	Karaf client.bat swallows commands to be passed to the Karaf instance
KARAF-824	Web demo folder in 2.2.2 release is missing content and README.txt has bugs
KARAF-832	build html manual by default, use a profile for pdf generation
KARAF-834	Upgrade to Spring 3.0.6 - in std. features.xml
KARAF-835	Provide a spring-jms feature
KARAF-840	specify javax.annotation packages version to 1.1.0 for jre-1.6 as Annotation 1.1 Spec is used for Java 6
KARAF-845	Add a jasypt based property placeholder to support encrypted values
KARAF-847	Provide Karaf features covering all Spring bundles
KARAF-851	Upgrade Maven plugins in use
KARAF-854	Upgrade to Felix Framework 4.0.1

Issue	Description
KARAF-855	Add support for OSGi R4.3
KARAF-864	obr:deploy command should provide a start option
KARAF-866	New dev:wait-for-service command to wait for a given osgi service
KARAF-881	Make aliases to osgi:* commands to be more clear for the users
KARAF-884	karaf-maven-plugin should more closely map to POMs
KARAF-885	StartBundle doesn't deploy all bundles if one failed
KARAF-886	Document security properties in the relevant configuration files
KARAF-887	Refer PrinceXML website in the manual
KARAF-889	dev:framework commands incorrect workflow
KARAF-892	EventAdmin events from Gogo not being sent from Karaf's console bundle
KARAF-894	Kar deployment failed
KARAF-896	Karaf webconsole exports wrong version of Felix webconsole package
KARAF-897	Fixing text in bundle.info files
KARAF-898	Config delete operation should remove the pid.cfg file
KARAF-899	Upgrade to Apache Felix Gogo version 0.10.0
KARAF-900	Shutdown command should display the instance name
KARAF-902	Jaas: Properties backing engine doesn't remove users
KARAF-903	Upgrade to Pax Web 1.1.2
KARAF-904	add jetty.port=8181 to jetty.xml so that configuration for jetty connector could take effect
KARAF-905	propdel() method in the ConfigMBean didn't work
KARAF-907	Include 64 bits wrapper library
KARAF-908	Provide a way to access system properties easily in the shell

Issue	Description
KARAF-909	Delete the copy of the felix gogo Closure class
KARAF-910	Race between FeatureService and ConfigAdmin for resolving mvn: URLs?
KARAF-913	Omitted @Command on Gogo plugin is hard to debug because of NPE
KARAF-915	KAR deployment failed in the features XML is not the first entry of the KAR archive
KARAF-916	use org.apache.aries.jmx.core instead of org.apache.aries.jmx
KARAF-917	warn instead of info when failing to install a feature
KARAF-919	Kar redeployment failed
KARAF-921	maven eclipse plugin 2.8 does not work correctly with karaf
KARAF-922	features-maven-plugin ignores repository tags in feature files
KARAF-923	features-maven-plugin#AddFeaturesToRepoMojo does not handle spaces in repository urls well
KARAF-925	Karaf config.properties doesn't define J2SE-1.6 and J2SE-1.7 execution environment
KARAF-926	JAAS: Properties backing engine doesn't respect encryptor prefix and suffix
KARAF-928	Support of Gemini Blueprint
KARAF-930	Bundles MBean should mimic the BundleSelector like osgi:* commands
KARAF-931	Add includeTransitiveDependencies option to features-generate-descriptor Maven goal
KARAF-932	ConfigMBean raise a NPE when dictionary is null
KARAF-934	Provide a way to select which features are to be installed when dropping a descriptor to the deploy folder.
KARAF-935	Deployer bundles do not start
KARAF-936	Features info command should display the start level of a bundle if available.
KARAF-937	Karaf maven plugin generates feature configuration with duplicate entries

Issue	Description
KARAF-939	the realm set for JAASLoginService in jetty.xml should be karaf but not the default
KARAF-940	Align various bat and sh scripts
KARAF-942	Expose Karaf RMI registry as a service
KARAF-945	Use singular for shell commands
KARAF-946	MBeans should be renamed in singular
KARAF-947	Rename admin service to instance service
KARAF-948	Apply normalized shell command format
KARAF-950	ensure webconsole.branding and webconsole.console import same version for javax.servlet
KARAF-951	dev:create-dump raises a NullPointerException
KARAF-952	config:propdel doesn't delete the property in the cfg file
KARAF-954	Double quotes missing in generated karaf-wrapper.conf
KARAF-956	jaas module should throw generic FailedLoginException
KARAF-960	Add information about available variables in the Karaf shell
KARAF-961	Update Mina SSHD to version 0.6.0
KARAF-962	Update easymock to version 2.5.2
KARAF-963	Refactoring of the modules
KARAF-964	admin feature is no more available in Karaf
KARAF-965	Allow features-maven-plugin to handle multiple versions of the same feature
KARAF-966	Update xbean to 3.8
KARAF-968	Features file should require name attribute on features element
KARAF-971	Add support for version ranges in features descriptor <repository/> element
KARAF-972	KARAF_OPTS is not propagated to start command in admin script

Issue	Description
KARAF-977	config propset, propappend & propdel could use some autocompletion
KARAF-980	Add demo for extending Karaf's console commands
KARAF-981	Set kar as a boot feature
KARAF-982	Utils.fromMaven cant deal with both classifier and extension
KARAF-984	Add Kar deployer demo using karaf-maven-plugin
KARAF-985	LDAPLoginModule generates a large number of DirContext objects
KARAF-987	Add scp support
KARAF-988	Upgrade to Aries Blueprint 0.4
KARAF-993	Upgrade to Aries Proxy 0.4
KARAF-995	Upgrade to Aries Util 0.4
KARAF-998	upgrade to jetty 7.5.4.v20111024
KARAF-999	local-repo folder shouldn't be used
OSFUSE-779	Karaf - Warning - failed to parse and instantiate of javax.servlet.ServletContainerInitializer in classpath
ENTESB-2088	Tests in rest quickstart are always skipped
ENTESB-3333	Add support to delete added patch
ENTESB-4531	Support Artemis Component
ENTESB-4552	Include camel-jcifs in fuse product distribution
ENTESB-4718	Please add a flag to toggle users between offline and online modes
ENTESB-5066	Test transaction recovery
ENTESB-5326	add status report after patch finishes
ENTESB-6118	[Quickstarts]GroupId and version are duplicated from parent
ENTESB-6493	Integrate fuse-credential-store into Fuse Karaf distribution

Issue	Description
ENTESB-6715	Remove any deprecated Camel components from Fuse kit
ENTESB-6741	Hawtio v2 - Create Karaf feature for Fuse 7 installation
ENTESB-6797	HawtIO doesn't start up in Fuse 7 kits
ENTESB-6849	Update and include beginner quickstarts
ENTESB-6850	Update and include camel quickstarts
ENTESB-6851	Update and include cxf quickstarts
ENTESB-6852	Update and include custom distro quickstart
ENTESB-6870	hawtio v2 console shows nothing on Karaf / Fuse 7
ENTESB-6872	Rebrand Karaf to Fuse
ENTESB-6903	Can't build quickstarts
ENTESB-6911	Add licenses.xml to Fuse 7 Karaf kit
ENTESB-6942	Include common features in Fuse 7 / karaf distro for offline use
ENTESB-6947	can't install feature camel-box
ENTESB-7044	Remove camel-amq quickstart from Fuse 7.0
ENTESB-7066	Update camel-odata quickstart to use camel-olingo4
ENTESB-7110	Include Hibernate PostgreSQL Dialect for 9.x
ENTESB-7125	Circular dependency between fuse-karaf and fabric8 projects
ENTESB-7167	Karaf, EAP maven artifacts with different versions
ENTESB-7181	Create fuse-karaf-framework kar for Fuse 7
ENTESB-7219	Standalone Karaf quickstarts/examples should use a BOM
ENTESB-7224	Provide some smoke tests for Fuse 7 project
ENTESB-7230	bin/fuse script clean KARAF_OPTS environment variable

Issue	Description
ENTESB-7243	maven settings comments should have escaped properties
ENTESB-7246	[7.0] Fuse shouldn't have to download artifacts during startup
ENTESB-7260	missing versions for karaf bundles in fuse7 bom
ENTESB-7271	client tool asks for password even when password is passed in through command line args
ENTESB-7273	drop bundles into deploy folder take no effect
ENTESB-7383	soap quickstart test returns code 500
ENTESB-7445	Switch back the Karaf Startup Message to the one in 6.3 to improve readability in Fuse Tooling
ENTESB-7446	Pre-configure ActiveMQ dependencies in Fuse 7 Karaf-based runtime
ENTESB-7466	Use Narayana version from EAP
ENTESB-7500	camel-salesforce quickstart can't be installed on Fuse 7
ENTESB-7520	Remove embedded Artemis feature from the Karaf
ENTESB-7532	Create new quickstart to cover camel-hl7
ENTESB-7546	Welcome file handler sometimes is not registered correctly
ENTESB-7569	Create \"welcome page\" for Fuse 7 standalone
ENTESB-7575	Implement standalone patching mechanism from Fuse 6.2+
ENTESB-7579	Add support for fuse-components camel-sap component on Karaf
ENTESB-7583	camel-spring-security is waiting for namespace handlers
ENTESB-7591	NoClassDefFoundError running fuse/bin/client
ENTESB-7633	Examine fuse-karaf quickstarts for SNAPSHOTS
ENTESB-7654	Unable to install camel-jclouds
ENTESB-7656	Unable to install hibernate-ehcache
ENTESB-7660	Unable to install hibernate-validator-paranamer

Issue	Description
ENTESB-7675	camel-eips quickstart does not consume example file with IBM java
ENTESB-7714	Unable to install camel-box, camel-cometd, camel-salesforce, camel-spark-rest, camel-websocket
ENTESB-7716	Unable to install camel-linkedin
ENTESB-7737	Unable to install camel-bean-validator
ENTESB-7738	Unable to install camel-jibx, camel-salesforce, camel-xmpp, camel-xstream, cxf-databinding-jibx
ENTESB-7740	Unable to install jclouds-chef, jclouds-commands
ENTESB-7741	Unable to install pax-jsf-resources-support
ENTESB-7742	Unable to install spring-dm, spring-dm-web
ENTESB-7765	Create Artemis quickstart
ENTESB-7766	Swagger version alignment
ENTESB-7773	admin user should not be enabled by default in users.properties
ENTESB-7782	Adjust patching mechanism ported from 6.2+ to Fuse 7 feature service
ENTESB-7783	Remove reference to \"jboss\" in kits names, quickstarts etc.
ENTESB-7787	Errors in log after installing feature http-lite
ENTESB-7801	Check for usage of deprecated components
ENTESB-7805	Add activemq-camel back to Fuse 7 Karaf kit
ENTESB-7807	[patching] Allow to include features in Hot Fix patches
ENTESB-7816	Remove pluginManagement tag from standalone karaf quickstarts pom
ENTESB-7827	Incorrect version of Narayana on Karaf
ENTESB-7842	Unknown protocol: wrap when installing wrapped bundles
ENTESB-7844	Move etc/jmx.acl.* files into etc/auth/
ENTESB-7852	Unable to install camel-consul

Issue	Description
ENTESB-7875	CXF bean validation JAX-RS and JAX-WS feature does not work
ENTESB-7879	camel-hl7 example throws error when consuming file on Windows
ENTESB-7884	Blacklist camel-swagger (based on old swagger/scala)
ENTESB-7892	Camel-odata quickstart typo
ENTESB-7895	After some restarts, \$FUSE_HOME contains HornetqJournalStore and ObjectStore folders
ENTESB-7898	Backport CAMEL-12407
ENTESB-7920	camel-salesforce quickstart has wrong description in pom
ENTESB-7921	Cxf quickstarts contain unnecessary dependencies
ENTESB-7922	Align org.ops4.pax.keycloak in fuse-karaf
ENTESB-7957	Add productised artemis client version into Karaf bom
ENTESB-7965	Unable to install camel-dozer, camel-juel
ENTESB-7970	Errors in log after installing / uninstalling deltapike-jpa
ENTESB-8005	Add BouncyCastle libraries to Fuse 7 distro
ENTESB-8035	Remove/blacklist unsupported transaction managers features from Karaf
ENTESB-8036	Clarify what pax-* features are supported for XA transaction scenarios
ENTESB-8037	Blacklist camel-jbpm and camel-optaplanner
ENTESB-8069	Unable to install pax-jms-activemq
ENTESB-8072	Blacklist instance feature in Fuse 7
ENTESB-8080	xml-maven-plugin breaks proxy in Indy/PNC
ENTESB-8082	Missing top level readme.txt in Karaf kits
ENTESB-8083	Unable to install standard, minimal
ENTESB-8086	Unable to install cxf-tools, cxf-databinding-jibx

Issue	Description
ENTESB-8089	WRONG INSTRUCTIONS IN KARAF SECURE-SOAP QUICKSTART
ENTESB-8090	CXF SOAP SECURITY THROWS NOCLASSDEDFOUND
ENTESB-8091	Align productized/pipeline/overriden/pom versions in Fuse-Karaf
ENTESB-8098	HAWTIO:OSGI:Server Doesn't show any information.
ENTESB-8108	camel-tika has incompatible license
KARAF-4872	Karaf build failed when assembly the minimal distribution
KARAF-5319	the jetty feature in karaf shouldn't depend on pax-jetty feature
KARAF-5597	Upgrade to Spring 4.3.14.RELEASE
OSFUSE-623	When booting up FIS then avoid printing the karaf progress indicator on startup as it looks terrible in logs
OSFUSE-749	karaf-cxf-rest doesn't work
OSFUSE-775	Missing hibernate-validator in dependencyManagment section in fabric8-project-bom-fuse-karaf

9.2. APACHE CAMEL ISSUES RESOLVED IN FUSE 7.0

The following table lists the Apache Camel issues that are resolved in Fuse 7.0.

Table 9.2. Apache Camel issues resolved

Issue	Description
CAMEL-10001	Add support for using any property placeholders on load balancers
CAMEL-10002	camel-netty4 - Upgrade to Netty 4.1.x
CAMEL-10003	camel-netty4 - Add support for native transport
CAMEL-10004	PollEnrich - Allow to bridge error handler
CAMEL-10005	HDFS2 - ClassNotFoundException - org.apache.htrace.SamplerBuilder
CAMEL-10006	Create MongoDB Idempotent repository
CAMEL-10007	camel-zipfile - ZipAggregationStrategy should ignore zero byte files

Issue	Description
CAMEL-10009	Using <to> with id and ref fails
CAMEL-10011	Overlap in management name for multiple contexts in OSGi bundle
CAMEL-10012	Add a Path Home option in camel-elasticsearch configuration
CAMEL-10014	Fix syntax for kubernetes component
CAMEL-10015	Fix syntax for braintree component
CAMEL-10016	Fix syntax for crypto component
CAMEL-10017	Fix syntax for ironmq component
CAMEL-10020	Camel KafkaProducer should be able to return back RecordMetadata
CAMEL-10021	Class component - Should allow to call static method on class without ctr
CAMEL-10022	add a Spring Boot HealthIndicator to check that all camel contexts have started up and all the routes started OK
CAMEL-10024	Race condition in Mina2Producer/Mina2Consumer when closing connections with disconnect=true
CAMEL-10025	Create a DNS based ServiceCall EIP
CAMEL-10026	HealthCheck API
CAMEL-10027	ServiceCall EIP : Support additional attributes in ServiceCallServer
CAMEL-10029	Allow camel-jackson to unmarshall more type by default
CAMEL-10030	BindyKeyValuePairDataFormat shold detect if the body is a map, a list of map or a simple value when marshalling
CAMEL-10032	camel-braintree - Cannot install in Karaf
CAMEL-10033	camel-avro - Cannot install in karaf
CAMEL-10034	Spring-boot health check causes application startup failure
CAMEL-10035	Upgrade braintree sdk to v2.63.0
CAMEL-10036	Dynamicaly Loaded XML Rests Bind to all RestConfigurations

Issue	Description
CAMEL-10037	ServiceCall EIP - Add missing documentation
CAMEL-10038	BlueprintPropertiesParser breaks propertyPlaceholder fallbackToUnaugmentedProperty behavior
CAMEL-10039	LinkedIn broke login in LinnkedIn component by adding a redundant reference to the callback url
CAMEL-10040	camel-ahc - Upgrade AHC client to 2.x
CAMEL-10041	camel-spring-boot - Add data format options as type-safe configuration properties
CAMEL-10042	camel-spring-boot - Add default values to auto configuration
CAMEL-10043	Camel-Jaxb: objectFactory is never checked. This leads to performance degradation.
CAMEL-10044	Mark secret options such as password/passphrase so tooling would be aware
CAMEL-10045	camel-spring-boot - Allow to load sensitive options from external file
CAMEL-10047	camel-mqtt - Should use dynamic port during testing
CAMEL-10048	Memory leak in RoutingSlip
CAMEL-10049	Context scoped processors should be shutdown when CamelContext is shutting down
CAMEL-10050	Routing slip - Consider not caching error handlers
CAMEL-10051	netty4 reuseChannel not working as expected
CAMEL-10052	Adding spring-boot integration tests
CAMEL-10053	Bindy does not seem to support Cp922 character encoding
CAMEL-10054	Create camel-atomix component
CAMEL-10055	ServiceCall EIP : add missing configuration options to EtcdConfigurationDefinition
CAMEL-10056	ServiceCall EIP : add missing configuration options to ConsulConfigurationDefinition
CAMEL-10057	Support Spring modular batch config

Issue	Description
CAMEL-10058	when cxf producer use MESSAGE DataFormat, it shouldn't also configure as messageType=text
CAMEL-10060	Cannot scan package to find custom converters
CAMEL-10061	Add JSON Johnzon DataFormat
CAMEL-10062	For specialized Dataformats, provide default value in catalog
CAMEL-10063	Camel on Karaf 4.0.5: java.lang.NoClassDefFoundError: org/apache/karaf/util/StringEscapeUtils
CAMEL-10064	Extra request parameter sent by the camel-jetty component
CAMEL-10065	Support Iterator<...> for kafka component
CAMEL-10066	Add support for InfluxDB
CAMEL-10068	Distributed map, retrieve hashmap keys
CAMEL-10069	camel-kafka producer has problems loading serializers in OSGi
CAMEL-10070	Add XMLStreamReader to InputStream/Reader converter
CAMEL-10072	camel-etcd : implement watching ServiceCallServerListStrategy
CAMEL-10074	ServiceCall EIP : Support caching ServerCallServerListStrategy
CAMEL-10075	using-propertyplaceholder - rror formatting macro: snippet: java.lang.IndexOutOfBoundsException
CAMEL-10077	Error formatting macro: snippet: java.lang.IndexOutOfBoundsException: Index: 20, Size: 20
CAMEL-10079	Upgrade quickfixj to v1.6.2
CAMEL-10080	CxfPayloadConverter to use a XMLStreamReader based conversion if applicable
CAMEL-10081	Camel OSGi examples - Update readme for karaf 4 style
CAMEL-10082	camel-api-component-maven-plugin doesn't handle inner class names in Javadoc
CAMEL-10083	Add \"disconnectOnBatchComplete\" option to close FTP connection immediately after Batch of upload complete

Issue	Description
CAMEL-10084	AggregateProcessor/JdbcAggregationRepository : table COMPLETED not cleaned when AggregationStrategy.aggregate does not return oldExchange
CAMEL-10085	UnsafeUriCharactersEncoder.checkRAW compiles regex pattern every call
CAMEL-10086	Remove Pattern.compile usages
CAMEL-10087	camel-kafka does not work in OSGi container
CAMEL-10089	Extend jline package import range in Camel commands
CAMEL-10090	Salesforce doesn't support full ISO-8601 datetimes
CAMEL-10091	Camel-Git: Always check if Git instance is null in GitProducer before closing
CAMEL-10094	Camel-Linkedin: Sometimes LinkedInOAuthRequestFilter in API is using redirectQuery equal to null
CAMEL-10095	bug in \"remove whitespace noise from uri\"
CAMEL-10096	Camel tracer with stream caching should tracer after stream cache has been setup
CAMEL-10100	Add support for copyObject in camel aws-s3
CAMEL-10101	[api-component-framework] splitResult should not convert collections to array
CAMEL-10102	[api-component-framework] api method resolution should not allocate temporary arrays
CAMEL-10103	Camel FTP - Unknown parser type
CAMEL-10104	Mail consumer does not work with quartz scheduler
CAMEL-10105	[api-component-framework] Reduce object allocation in ApiCollection
CAMEL-10106	[api-component-framework] Reduce object allocation in ApiMethodHelper, ApiMethodImpl
CAMEL-10107	[api-component-framework] Make ApiMethodImpl's arguments type safe
CAMEL-10110	Marshaling using CSV will insert escape char in header if using a pipe as separator
CAMEL-10111	Creating an InputStream from XMLStreamReader fails with ASCII default platform encoding

Issue	Description
CAMEL-10112	Camel-CoAP: Add Ping operation to CoAP Producer
CAMEL-10113	camel-spring-boot - Add support for auto detection of advanced configuration
CAMEL-10114	camel-spring-boot - Allow to configure stream caching using application.properties
CAMEL-10115	Kafka consumer stays running if no messages were received after shutdown start
CAMEL-10116	NullPointerException in DefaultAsyncProcessorAwaitManager
CAMEL-10117	Camel-Elasticsearch: Default pathHome option should work on all the platforms
CAMEL-10118	Spring-boot compatibility test results
CAMEL-10119	Upgrade to Spring 4.3.x
CAMEL-10120	Creating an InputStream from XMLStreamReader fails without default namespace
CAMEL-10121	ResponseHandler in Mina2Producer should not log errors
CAMEL-10122	spring boot - Auto configuration for http component has prefix https
CAMEL-10124	Karaf commands - Switch to non deprecated
CAMEL-10125	WARN on startup: \"No Server set for org.apache.camel.component.jetty.JettyHttpComponent\$1@3d484181\"
CAMEL-10127	OsgiDefaultCamelContext should call parent constructor with registry
CAMEL-10128	camel-jt400 - Need to call configure consumer
CAMEL-10130	Removed deprecated vtdxml language
CAMEL-10131	Add exclusive queues support to RabbitMQ component
CAMEL-10132	Camel-Kubernetes: Add the ability to scale up and down a replication controller from Producer
CAMEL-10133	New camel-lumberjack component
CAMEL-10134	Camel-Kubernetes: Add the ability to consume events from Resources filtered by labels and/or name
CAMEL-10136	Missing Group attribute for Tokenize DSL added to the Body Expression

Issue	Description
CAMEL-10137	Add a Camel-Kubernetes example
CAMEL-10139	Multiple verbs for same resource not working in camel-undertow (rest dsl)
CAMEL-10140	Java 8 type safe process DSL
CAMEL-10141	Test Apache Camel on Java 9
CAMEL-10142	ScheduledPollingConsumer properties
CAMEL-10143	Camel Salesforce component field LastActivityDate is typed with java.lang.String, which is not consistent with the Salesforce SOAP type "xsd:date"
CAMEL-10144	Salesforce keeps breaking backward compatibility by adding fields to older API versions
CAMEL-10145	Camel-Git: Pull and Push operations require the remote Name and not the remote Path to git repository
CAMEL-10147	MessageHistory will take very long time for large expressions
CAMEL-10149	Camel-Ftp: SftpOperations use sendKeepAliveMsg instead of sendIgnore method
CAMEL-10150	Camel-Apt: Check for empty lines in parseAsMap method of EndpointAnnotationProcessor
CAMEL-10151	camel-sql - Query parameter count mismatch when using IN and other names in SQL
CAMEL-10156	arguments of <bean method> ignored if syntax error in method call
CAMEL-10157	Values in KafkaConstants don't fit their variable name
CAMEL-10158	Support to add tags to workflow execution in camel-aws component
CAMEL-10159	github endpoint to support creating issues
CAMEL-10160	create a zendesk endpoint for creating new issues
CAMEL-10161	camel-sql - Does not propagate headers for outputType=StreamList
CAMEL-10163	camel-twitter - Component docs - Some options are labelled wrong
CAMEL-10164	camel-swagger to component

Issue	Description
CAMEL-10165	DefaultCxfMessageMapper.getBasePath creates a incorrect http path
CAMEL-10166	Binding a queue on the default exchange is not always allowed
CAMEL-10167	Camel-Github: Use constants instead of String for headers and registry names
CAMEL-10168	Don't print stacktrace when Kinesis not available on startup
CAMEL-10169	supporting OSGi service.pid by registry
CAMEL-10170	Add support for Chronicle-Engine
CAMEL-10171	Camel CXF expired continuations cause memory leak
CAMEL-10172	BeanProducer unlike BeanProcessor do not implement fully async protocol
CAMEL-10174	weaveByToString throws UnsupportedOperationException on CBR
CAMEL-10175	camel-jetty - Continuation timeout should send back HTTP timeout status code
CAMEL-10176	camel-cxf RawMessageContentRedirectInterceptor should be able to handle the case that OutputStream is null for an outgoing message
CAMEL-10177	Camel-catalog: wireTap is missing from all oneOf lists
CAMEL-10178	Google Cloud PubSub Component
CAMEL-10180	weaveByToUri - To make it easier to match sending to uris
CAMEL-10181	Camel-undertow: UndertowHttpBinding should be initialized in the endpoint and not at component level
CAMEL-10183	Camel-Aws: add list and delete buckets operations on the S3 Producer Endpoint
CAMEL-10184	ChannelGroup option is not active for NettyProducer
CAMEL-10185	camel-ftp - fastExistsCheck issue
CAMEL-10186	camel-spring-boot - Add auto-configuration to components without properties
CAMEL-10189	camel-jsonpath - Add support for simple functions
CAMEL-10192	Specifying jobFromHeader in URI option throws exception
CAMEL-10195	rest-dsl - automatic binding failure with waitForTaskToComplete=Never

Issue	Description
CAMEL-10196	Camel Kafka doesn't support SASL_PLAINTEXT security protocol
CAMEL-10197	camel-spring-boot - Extend the configuration hints to nested properties
CAMEL-10198	JGroupsClusterTest and JGroupsComponentTest fail on some platforms
CAMEL-10200	Mail consumer sets wrong Content-Type header for mails with attachment
CAMEL-10201	More Type Converters for Multipart
CAMEL-10203	Spring boot - Auto configuration should not use primitive types
CAMEL-10204	Use narayana as TX manager for testing
CAMEL-10205	camel-example-spring-dm - Cannot install in Karaf 4.0.x
CAMEL-10207	spring boot - Integration test failures
CAMEL-10208	FluentProducerTemplate - Allow to be injected
CAMEL-10209	spring boot - Auto configuration for languages
CAMEL-10210	Trace formatter - Add support for multiline
CAMEL-10211	spring boot - Auto configuration of tracer
CAMEL-10212	Camel-Undertow: transferException and throwExceptionOnFailure options are never used in the component
CAMEL-10213	Camel Kafka doesn't support setting \"max.poll.records\" and \"session.timeout.ms\"
CAMEL-10214	File Component: doneFileName option of Consumer missing from generated documentation
CAMEL-10215	EventDrivenPollingConsumer is not thread safe when used with ConsumerCache
CAMEL-10216	Camel-Http4: Endpoint parameters proxyHost and proxyPort are ignored
CAMEL-10217	Remove logging implementations from compile scope
CAMEL-10219	Add support in JAXB module to use injected CharacterEscapeHandler
CAMEL-10221	Camel-Jcache: writeThrough option is never used

Issue	Description
CAMEL-10222	camel-spring-boot - New starters and BOMs
CAMEL-10223	XmlRpc dataformat - Setting request=true should also apply for marshal
CAMEL-10224	Upgrade log4j to lg4j2
CAMEL-10225	Camel-Saxon is not thread safe
CAMEL-10226	camel-jms ignores connection pool settings in spring-boot deployment
CAMEL-10227	upgrade camel-flink
CAMEL-10228	camel-sql - Preserver attachments
CAMEL-10229	camel-rabbitmq - Race condition when stopping context with autoack=false
CAMEL-10231	[camel-itest-karaf] CamelIgniteTest fails as Ignite needs sun.nio.ch
CAMEL-10232	[camel-itest-karaf] CamelJbpmTest fails as it requires com.sun.tools.xjc
CAMEL-10233	SpringCamelContext should lazy load ModelJAXBContextFactory
CAMEL-10234	Improve OSGi camel-jcache support
CAMEL-10235	Add fluentTemplate to XML DSL
CAMEL-10238	Camel-salesforce component never tries to reconnect after a disconnect
CAMEL-10239	Extend Camel RabbitMQ with guaranteed delivery (basic.return)
CAMEL-10240	CamelHttpClient default pool size does not work on system with large number of cpus
CAMEL-10241	MockEndpointAndSkip and DirtiesContext not working
CAMEL-10242	camel-mlp - Enhance Camel to support idleTimeout to avoid network resource wastage due to leak in caller code
CAMEL-10243	Force camel-atom feature to install abdera-parser
CAMEL-10244	When same netty endpoint producer is used twice in a route, BlockingOperationException is raised
CAMEL-10245	Persistence Exception when trying to delete detached entity

Issue	Description
CAMEL-10246	camel-ftp - Add support for configuring active port range
CAMEL-10247	OnException is overriding route Ids for the Route Definitions in the Camel Test
CAMEL-10248	camel-catalog - Include adoc documentation
CAMEL-10250	spring boot - SpringBootStarterMojo should not use internal API
CAMEL-10252	Upgrade Weld embedded Arquillian adapter to version 2.0.0.Beta3
CAMEL-10253	NullPointerException in ThrowExceptionHandlerProcessor.getTraceLabel
CAMEL-10254	Error may still block mail-consumer
CAMEL-10255	Camel Main - Make it easy to configure property placeholder
CAMEL-10257	camel-cache - Test failures
CAMEL-10260	Olingo2 component should declare runtime dependency on olingo-odata2-core
CAMEL-10261	Mark camel-cache as deprecated
CAMEL-10262	camel-kubernetes component should be able to rely on the current login token provided by kube config
CAMEL-10263	Several log refactoring/improvement suggestions
CAMEL-10264	Minor version releases should carry .0 micro version
CAMEL-10265	Allow named queries in JPA Producer
CAMEL-10267	Create a Caffeine component
CAMEL-10268	Camel-CouchDB: Add the ability to remove an entry from producer side
CAMEL-10270	Jetty 9 X-Forwarded-For Configuration
CAMEL-10271	camel-jt400 - Failed to resolve endpoint
CAMEL-10272	Unexpected behaviour in aggregator if recipient list is processed in parallel
CAMEL-10273	[Jetty] missing jmx object if custom thread pool is used
CAMEL-10275	Allow @PropertyInject on bean method arguments

Issue	Description
CAMEL-10276	Update camel-syslog to use Netty4
CAMEL-10279	Can't use @ImportResource and configure() in the same SB app
CAMEL-10280	Don't require create privileges to publish to named SNS topic
CAMEL-10282	[Avro] Issue on OSGi due to static cache
CAMEL-10283	Add a timeout on WebSocketProducer sendMessages method
CAMEL-10285	beanio - Allow custom error handler to access exchange
CAMEL-10286	Allow async bean method in bean language with J8 CompletableFuture
CAMEL-10287	Infinispan RoutePolicy to have one route being master, and others as slaves
CAMEL-10288	Move RoutePolicy initialization logic in onStart
CAMEL-10289	Move RoutePolicy initialization logic in onStart
CAMEL-10290	Move RoutePolicy initialization logic in onStart
CAMEL-10291	Camel RabbitMQ invalid handling of message timestamp
CAMEL-10292	Move RoutePolicy initialization logic in onStart
CAMEL-10293	[camel-maven-plugin] When blueprint detected, plugin ignores useBlueprint, fileApplicationContextUri tags
CAMEL-10294	Component docs - ExchangePattern
CAMEL-10296	Guaranteed Delivery not working if no timeout is set
CAMEL-10297	Camel-Ftp: Splitting the body doesn't parse the file content but the RemoteFile
CAMEL-10298	Unnecessary restriction on readLockTimeout with readLockMinAge
CAMEL-10302	Extract body from nested multipart
CAMEL-10303	MllpTcpServerConsumer fails silently on acknowledgment failure
CAMEL-10305	Add support for calling function imports from Olingo2 Component
CAMEL-10307	Upgrade docker java version

Issue	Description
CAMEL-10308	Provide a way to use async engine from ProducerTemplate
CAMEL-10311	Comprehensively define lucene artefacts used by elasticsearch
CAMEL-10313	camel-example-swagger-xml - Fails with jetty:run
CAMEL-10317	Add support to use Http synchronous client with Olingo2 Component
CAMEL-10318	Upgrade OpenWebBeans to version 1.7.0
CAMEL-10319	SNMP Producer
CAMEL-10320	Provide a LeaderPolicy to ease the implementation of master/slave route/context
CAMEL-10321	New Component camel-asterisk
CAMEL-10322	Choice breaks Advice - UnsupportedOperationException
CAMEL-10323	MQTT producer creation fails if network is not available at startup
CAMEL-10325	Camel-Aws: EC2 component, add createTags and deleteTags operation
CAMEL-10326	Hazelcast aggregation repository tests may fail if multiple network interfaces are configured on th host
CAMEL-10327	New Apache drill component
CAMEL-10328	Enhance Slack component to support attachments in webhooks
CAMEL-10331	Camel Docker Consumer
CAMEL-10332	Define netty version in dependency management
CAMEL-10335	Improve Saxon customization
CAMEL-10337	camel-asterix - Endpoint should be singleton
CAMEL-10338	Markdown formatting improvement for CDI-OSGI Example
CAMEL-10339	Allow date offsets and timezones with Simple language
CAMEL-10340	camel-aws - SQS option deleteAfterRead not work if set deleteIfFiltered=false
CAMEL-10341	When using SSL, a NettyConsumer set to Client Mode does not initiate a handshake

Issue	Description
CAMEL-10342	WebSockets options are ignored
CAMEL-10344	RouteIdFactory - That can assign route ids using derived values from uris
CAMEL-10345	camel-test - Route coverage summary to be logged
CAMEL-10346	Upgrade servicemix bundles from 2016.09
CAMEL-10347	Camel-scr todos and polish
CAMEL-10350	New camel-bonita component
CAMEL-10352	Optionally delegate to Aries PropertyEvaluator services in BlueprintPropertiesParser
CAMEL-10354	OWASP Dependency Check
CAMEL-10356	camel-metrics - Add support for gauge type
CAMEL-10357	camel-servicenow - Add per release model
CAMEL-10358	camel-spring-boot - Add example how to use Spring Boot Live Reload
CAMEL-10359	Fix failing test org.apache.camel.component.salesforce.RestApiIntegrationTest.testQueryAll
CAMEL-10361	Expose cassandra-unit version through BOM
CAMEL-10363	camel-spring-redis - Cannot install in Karaf
CAMEL-10366	Missing input/output values in camel-catalog for several eips
CAMEL-10367	remove extraneous dependency from camel-amqp module
CAMEL-10368	Unused deflater in ZipDataFormat
CAMEL-10370	Conversion to CxfPayload throws Exception for Non-XML payload
CAMEL-10371	Add Apache HttpComponents dependencies to BOM
CAMEL-10372	camel-stream - Component doc issue
CAMEL-10373	camel-spring-boot-starter - Some starters has hibernate-validator

Issue	Description
CAMEL-10375	Move camel-couchbase from extra to ASF
CAMEL-10376	BeanInfo#introspect does not work correctly with bridge methods
CAMEL-10378	Upgrade log4j2 to v2.7
CAMEL-10379	Improved component description
CAMEL-10380	JettyHttpEndpoint9 ignores eagerCheckContentAvailable so Jetty builds a request with \"Transfer-Encoding: chunked\"
CAMEL-10381	camel-google-mail getting NPE from component configuration
CAMEL-10383	activemq-camel - Issue with parsing uri to determine queue vs topic
CAMEL-10384	Shutdown broken when using Spring Boot
CAMEL-10385	simple ognl expression issue w/ list & spring boot
CAMEL-10386	simple language nullsafe expression fails on empty array
CAMEL-10387	JMS correlationIdAsBytes should return null and not byte array with zero values
CAMEL-10389	Move string related function from ObjectHelper to StringHelper
CAMEL-10390	ObjectHelper's after/before/between enhancements
CAMEL-10392	HTTP session handling in Camel routes
CAMEL-10393	camel-properties: Add an option to disable using default value if a property does not exist
CAMEL-10394	BlueprintCamelContext cannot find components created in RouteBuilder.configure method
CAMEL-10395	DefaultComponent - Suppress old WARN log that no longer apply
CAMEL-10396	Can't use parameter type to select among overloaded methods
CAMEL-10397	SJMS - Raise an error against InOut+transacted producer as it causes a deadlock
CAMEL-10398	Avoid NPE when neither of ConnectionResource nor ConnectionFactory is configured
CAMEL-10399	OutOfMemoryError: Java heap space when sending large file to endpoint

Issue	Description
CAMEL-10400	Upgrade EasyMock to version 3.4
CAMEL-10401	ftp: Allow files to be chmod-ed after being produced
CAMEL-10402	camel-servicenow : Allow to configure credentials on ServiceNow component
CAMEL-10403	Camel-Nats: Add TLS Support
CAMEL-10404	Improve spring-boot-example
CAMEL-10406	VM endpoint caching leak the wrong camel context
CAMEL-10407	camel-example-loan-broker : target directory is cleaned while testing so test are failing
CAMEL-10408	Camel-JMS: Suspending/resuming won't work in case of timeout
CAMEL-10409	Double release of netty buffer
CAMEL-10410	Karaf features: install camel-karaf-commands and camel-karaf-commands-catalog only if karaf shell is installed
CAMEL-10411	Camel-Blueprint - failed container gets restarted automatically
CAMEL-10412	Unable to exclude CamelAutoConfiguration in Spring Boot
CAMEL-10414	Query is ignore if field filter header is set
CAMEL-10415	camel-servlet-starter - Autoconfigure Servlet Endpoint
CAMEL-10417	camel-properties: Support adding location using child nodes of propertyPlaceholder element
CAMEL-10418	Deploy route with an error
CAMEL-10419	camel-properties : allow to individually set whether to silently ignore a missing location
CAMEL-10420	camel-xxx-starter - Allow custom changes to the pom.xml files
CAMEL-10421	camel-spring-boot - CamelAutoConfiguration should allow to exclude non-singletons
CAMEL-10423	Introduce XmppDirectProducer

Issue	Description
CAMEL-10424	Bean should act like transform/setBody when setting result
CAMEL-10425	java.io.IOException: Stream closed - When setting result from bean in route
CAMEL-10426	camel-zookeeper - Add Curator based Policy supporting multiple active nodes
CAMEL-10427	CXF RS client gets \"Response timeout\" exception when used with Camel transport
CAMEL-10429	CXF RS client requires Exchange.HTTP_URI instead of HTTP_PATH for Camel transport
CAMEL-10430	camel-hystrix - Should also execute fallback if exception not from Camel
CAMEL-10431	camel-elsql - Does not read named parameter from header properties
CAMEL-10434	Camel catalog - Filter karaf / spring boot components
CAMEL-10435	Move spring-boot-dm to platforms directory
CAMEL-10436	camel-archetype-spring-boot - Should create JAR not WAR
CAMEL-10437	Add camel-grape Karaf feature
CAMEL-10438	Java8 DSL for Content Enricher and Aggregator
CAMEL-10441	The WorkerGroup option is for NettyConsumer and NettyProducer
CAMEL-10442	Multicast leaks into Pipeline stages?
CAMEL-10443	findByld does not work with ObjectId
CAMEL-10444	Return header with key CamelMongoDbRecordsAffected from update and remove operations
CAMEL-10446	Need to consolidate header mapping logic between Camel and CXF messages
CAMEL-10447	Add contract based type awareness
CAMEL-10448	File read lock - idempotent and change/rename should be possible
CAMEL-10449	Set CXF SoapAction header correctly
CAMEL-10450	bean/class component should be able to call groovy function directly

Issue	Description
CAMEL-10451	camel-undertow - Add multipart request support
CAMEL-10453	camel-elsql does not set CamelSqlUpdateCount header on update operation
CAMEL-10454	Unclear piece in IdempotentConsumer.java
CAMEL-10455	camel-chronicle - has SNAPSHOT dependency
CAMEL-10457	Cannot generate javadoc for camel-jms-starter
CAMEL-10458	Upgrade to Spring Boot 1.4.2
CAMEL-10459	camel-elsql - option batch is not implemented in producer
CAMEL-10460	MetricsMessageHistoryFactory.java:138 Generate a NPE
CAMEL-10462	Add MDC support to DefaultCamelContext startup/shutdown
CAMEL-10464	@ContextName CDI qualifier should be repeatable
CAMEL-10465	camel ahc uses netty 4.0.41 transitively but 4.1.5 explicitly - leads to runtime exceptions
CAMEL-10468	Java8 DSL: Add support for aggregation strategy with different body types
CAMEL-10470	camel-mail - Should allow to configure SimpleSearchTerm as plain POJO
CAMEL-10471	Update Salesforce component to support limits REST API
CAMEL-10472	Update Salesforce component to support recent items REST API
CAMEL-10473	Failover Loadbalancer - Error handler should kick in after exhausted when inheritErrorHandler is false
CAMEL-10474	Aggregator - Allow aggregate/preAggregate to force complete group
CAMEL-10476	configAdminFile not used to populate property placeholders in camel-test-blueprint when run via camel-maven-plugin
CAMEL-10477	[jruby] Upgrade to 1.7.26
CAMEL-10480	MemoryLeak in the DatagramPacketObjectEncoder
CAMEL-10481	Camel does not expose cassandra-all any more

Issue	Description
CAMEL-10482	ServiceNow : add an option to set inbound and outbound models
CAMEL-10486	Google PubSub Component does not consume messages with parallel consumers
CAMEL-10488	ServiceNow : add an option to configure teh API version
CAMEL-10489	Camel-Nats: Add Flush option with timeout
CAMEL-10490	JpaPollingConsumer does not support consumeLockEntity and others
CAMEL-10491	Spring-LDAP - Add support for authenticate, modify_attributes and function_driven operations
CAMEL-10492	Camel Servlet, attachment object is empty
CAMEL-10494	Camel-Kubernetes: Consuming events from nodes
CAMEL-10499	camel-sql - error in multiple dynamic IN replacement
CAMEL-10500	Camel-Git: Add allowEmpty commits option
CAMEL-10502	Camel-git : Copy headers from in to out
CAMEL-10503	Camel-Git: Add RemoteAdd command
CAMEL-10505	"FILE\" component with option \"readLock=rename\" throws FileNotFound exception in case of work file is locked/used by another application
CAMEL-10507	Make TypeReference inline anonymous classes constant
CAMEL-10509	ManagedCamelContextMBean - additional namespaces are removed
CAMEL-10510	HL7AcknowledgementGenerator should set exchange property and not message header
CAMEL-10511	MllpTcpClientProducer should read all available bytes in TCP buffer for acknowledgment
CAMEL-10512	camel-mllp - Add JMX attributes for connections & connection status
CAMEL-10513	Start BlueprintCamelContext on BlueprintEvent.CREATED
CAMEL-10514	Camel-Kubernetes: Copy headers from in to out in producer operations
CAMEL-10515	86 unit tests are failing on Windows

Issue	Description
CAMEL-10516	Clean code: remove the 308 import not used
CAMEL-10517	Remove unnecessary SuppressWarnings
CAMEL-10518	Fix bad suppress warning named with typo \"unchekek\"
CAMEL-10520	Lumberjack protocol v1 acknowledgment is not correctly implemented
CAMEL-10521	Camel-Rabbitmq: Support RabbitMQ AMQP client 4.x
CAMEL-10523	Make Test launchable as JUnit Test from IDEs
CAMEL-10524	Components not created because of unsatisfied conditions
CAMEL-10527	camel-mail - Option skipFailedMessage should catch all exceptions
CAMEL-10528	Contributing file for Apache Camel
CAMEL-10530	Introduce TransformerRegistry
CAMEL-10531	Introduce fluent builder for Transformer
CAMEL-10532	Integrate Transformer with Rest DSL
CAMEL-10536	camel-servlet-starter - Test failure
CAMEL-10537	Unable to remove/add restful path to an existing endpoint
CAMEL-10538	Add declarative validator according to input/output type
CAMEL-10539	When bridging http endpoints and end users do not enable the bridgeEndpoint option they may get a NPE exception
CAMEL-10542	DataFormat from registry is used for every dataformat operation (marshal/unmarshal)
CAMEL-10543	New Apache Camel Logo
CAMEL-10544	Upgrade to smack 4.2.0
CAMEL-10546	CamelContext - Rename getProperties to getConfiguration
CAMEL-10548	Converter from List to String is not found when @EnableAutoConfiguration is used

Issue	Description
CAMEL-10550	spring-boot: add a global option to disable data-format, language and components auto configuration
CAMEL-10551	spring-boot: make auto configured dataformats and languages prototype
CAMEL-10552	spring-boot: make component lazy loading
CAMEL-10554	camel-mongodb evolution to driver 3
CAMEL-10556	camel-example-twitter-websocket-blueprint - Cannot load static html resources
CAMEL-10558	camel-core - XmlConverter cannot load fallback TransformerFactory in OSGi
CAMEL-10559	tooling - route parser for java and xml to parse source code
CAMEL-10560	Add submittedFileName into AttachmentHttpBinding
CAMEL-10561	camel-catalog - Add REST JAX-RS application
CAMEL-10562	UnsupportedOperationException in DefaultCamelContext#safelyStartRouteServices
CAMEL-10563	camel-hazelcast: add an option to provide a custom configuration (custom Config object or configuration file location)
CAMEL-10564	camel-netty-http - Unable to change configuration through spring-boot properties
CAMEL-10565	camel-undertow - Allow configuring thread pool and other options
CAMEL-10566	Remove camel-spring-javaconfig from karaf
CAMEL-10567	Camel-Jackson: Add an option to allow the UnmarshallType header use
CAMEL-10568	SftpChangedExclusiveReadLockStrategy integer overflow
CAMEL-10571	camel-salesforce: implement support for SObject tree creation via Composite API
CAMEL-10572	RefLanguage should support Predicates for Choice
CAMEL-10573	Align FallbackTypeConverter loading in OSGi environments
CAMEL-10574	Create a camel-spring-cloud component
CAMEL-10575	snakeyaml: add an option to filter classes the yaml parser can construct

Issue	Description
CAMEL-10576	snakeyaml : as the snakeyaml parser is not thread safe, object like Constructor, Resolver etc should be provided by a factory/supplier
CAMEL-10577	Jetty9 producer only supports payloads up hardcoded limit (2MB)
CAMEL-10578	Default namespaces defined on SOAPEnvelope cause problems with CXF PAYLOAD mode
CAMEL-10579	SOAP 1.1 unmarshalling fails for faults that lack a detail element
CAMEL-10581	toD (ToDynamicDefinition) does not honor RAW() contract - 'removes + from password'
CAMEL-10582	Spring Message headers are immutable
CAMEL-10583	Typo in Camel JSON Documentation
CAMEL-10584	spring boot auto configuration mojo: use Class.isAssignableFrom instead of instanceof as the later may fail at compile time in case of final classes
CAMEL-10585	the URL format should include the topic name like the ActiveMQ & AMQP endpoints
CAMEL-10586	make the kafka endpoint a little easier to use
CAMEL-10587	Extending SQS message invisibility timeout not working in some cases
CAMEL-10588	Add HTTP proxy config params to camel-servicenow
CAMEL-10589	ServiceNow: add an option to configure SSL/TLS
CAMEL-10592	Improve naming and description for sip components
CAMEL-10593	camel-salesforce: implement support for Composite API batch
CAMEL-10594	Kafka consumer stays alive when camel context is shut down
CAMEL-10596	RoutePolicy - To easily stop routes after X messages or time
CAMEL-10597	Swagger prints child object types as string parameters rather than refs
CAMEL-10598	Upgrade ehcache to 3.2.0
CAMEL-10599	Add watcher to camel:run to reload on routes xml changes

Issue	Description
CAMEL-10601	camel-mongodb-gridfs - Use dynamic ports for tests
CAMEL-10602	camel:run with simple blueprint project failed \"waiting for BlueprintContainer\" although the route is active
CAMEL-10603	Realm parameter cause Exception
CAMEL-10604	Camel-JacksonXML: Add an option to allow the UnmarshallType header use
CAMEL-10606	Modify quartz2 endpoint to be a singleton
CAMEL-10607	camel-cxf - Allow to call no-arg methods more easier
CAMEL-10608	Karaf camel:endpoint-list command to list endpoints in all camel contexts
CAMEL-10609	Simple - Add skip method
CAMEL-10611	Align Aries namespace handlers to blueprint-core 1.7.x
CAMEL-10612	camel-reactive-streams - New component
CAMEL-10613	Upgrade to restlet 2.3.12
CAMEL-10614	Camel-Openstack Karaf support
CAMEL-10615	camel-sjms - BatchConsumer should use exception handler instead of warn log
CAMEL-10616	shutdown timeout override not working in unit tests
CAMEL-10617	camel-sjms - Async start consumer should defer starting endpoint
CAMEL-10618	camel-sql - Allow to use Spring Boot DataSource
CAMEL-10619	Add spring boot configuration for configuring shutdown options
CAMEL-10620	AMQP documentation out of date?
CAMEL-10621	Issue with Rest DSL, Jetty and Basic authentication
CAMEL-10622	Move spring-boot components starter to platforms/spring-boot/
CAMEL-10623	Camel CXF version not compatible with WildFly CXF
CAMEL-10625	Camel-Hystrix: Support allowMaximumSizeToDivergeFromCoreSize and maximumSize in Hystrix Threadpool configuration

Issue	Description
CAMEL-10629	Add labels to component level options
CAMEL-10633	json dataformat should set a header <code>"Content-Type: application/json"</code> if there's no <code>"Content-Type"</code> header set
CAMEL-10635	camel-mongodb-gridfs - The component should not store state
CAMEL-10636	Component options docs - Add columns with default values
CAMEL-10637	IllegalStateException that is not thrown in IgniteMessagingEndpoint
CAMEL-10638	Refactor ServiceCall EIP
CAMEL-10640	Custom AsyncHttpClientConfig not used in WsEndpoint
CAMEL-10641	camel-core - In OSGi should unload the loaded type converters when bundle is removed
CAMEL-10643	camel-sjms - Should log connection issues out of the box
CAMEL-10644	Camel-MongoDB: component should not store state
CAMEL-10645	Camel-MongoDB3: component should not store state
CAMEL-10646	support JSONPath on beans as well as Strings & InputStreams
CAMEL-10647	camel-test-karaf - Cause wrong build order
CAMEL-10648	camel-sjms - Batch consumer should support async start listener
CAMEL-10649	Transformers - Add documentation to dsl model
CAMEL-10650	camel-spring-boot - Allow to configure SSLContextParameters in auto configuration
CAMEL-10653	XQuery support broken in Camel 2.18.x
CAMEL-10655	Camel catalog - Include html copies of adoc documentation
CAMEL-10658	Camel-InfluxDB: Support BatchPoints
CAMEL-10659	Camel-InfluxDB: Check if Database exists and if not create it
CAMEL-10661	camel-hystrix - Fallback should route exchange if it was marked as stop due delay timeout

Issue	Description
CAMEL-10662	camel-hystrix - If hystrix timeout occurs then the hystrix timeout exception should be cause
CAMEL-10663	Basic authentication information not sent on versions post 2.14.1
CAMEL-10664	SimpleIllegalSyntaxException in nested expression
CAMEL-10665	Restlet header warnings - again
CAMEL-10666	Serializable headers lost by JmsBinding
CAMEL-10667	Add tarFile data format to Java DSL
CAMEL-10672	Test failing in camel-itest-osgi
CAMEL-10673	Expose activemq-mqtt through parent POM
CAMEL-10677	SJMSBatchConsumer does not respect the consumerCount parameter
CAMEL-10678	Transformer registry JMX
CAMEL-10679	Producer does not populate attachments from response
CAMEL-10680	Camel catalog - validate endpoint properties - consumer vs producer
CAMEL-10682	AbstractCamelContextFactorybean : add specific methods for servicecall/hystrix configuration
CAMEL-10684	camel-catalog - Simple validator should provide location index of the error
CAMEL-10685	TransactionErrorHandler and TransactionPolicy for Camel CDI / JavaEE
CAMEL-10686	service-call eip : generate service-call auto configurations for spring-boot
CAMEL-10687	Component docs - Auto generate title so they are consistent
CAMEL-10688	Camel-influxdb - The component should not store state
CAMEL-10689	NoFactoryAvailableException when invoking component-list ssh command
CAMEL-10690	Camel-InfluxDB: Support Querying
CAMEL-10691	HttpRestServletResolveConsumerStrategy should pick the path with longest prefix match

Issue	Description
CAMEL-10692	OptaPlanner cannot load config from deployment
CAMEL-10693	spring-boot: deprecate camel-spring-boot commands
CAMEL-10695	camel-mqtt: TimeoutException thrown on MQTTEndpoint stop
CAMEL-10696	Allow camel-kafka to resume from any offset
CAMEL-10697	Infinite loop sometimes happen at the shutdown of the Kafka consumer
CAMEL-10698	camel-maven - validate simple expression predicate vs expression
CAMEL-10699	Simple - Add short error message
CAMEL-10700	camel-maven - validate simple predicates and property placeholders
CAMEL-10701	Classloader issue prevents from loading kafka authentication in OSGi environments
CAMEL-10702	camel-jsonpath - Allow to define predicates even easier
CAMEL-10703	camel-catalog - Add api for validating any Camel language
CAMEL-10704	XSLT will fail if the XML document contains a default namespace
CAMEL-10705	Allow to use an SSLContextParameters object for Kafka
CAMEL-10707	Throttling policy is broken because service suspension/resume is not symmetric
CAMEL-10708	org.apache.camel.component.cxf.CxfEndpoint — Lines 554 -558 should be Nullsafe
CAMEL-10709	camel-etcd: etcd stats endpoint fails because of a class cast exception
CAMEL-10710	ServiceCall EIP : improve Java DSL
CAMEL-10711	Consider using add[Test]CompileSourceRoot in api component maven plugin
CAMEL-10712	Camel-SFTP endpoints will silently not delete file on disconnect
CAMEL-10713	SCP not handling errors for failed transfers correctly
CAMEL-10714	Replace ByteArrayOutputStream in JettyContentExchange9 with OutputStreamBuilder

Issue	Description
CAMEL-10715	service-call : create ZooKeeper based ServiceDiscovery
CAMEL-10716	Salesforce Composite API wrongly checks for minimum supported version
CAMEL-10717	Fix relativePath in camel/platforms/spring-boot/components-starter/pom.xml
CAMEL-10719	Add ability to manage ThrottlingExceptionRoutePolicy through JMX
CAMEL-10720	Add deprecated to the description in the generated XSD schema
CAMEL-10721	Camel Connectors
CAMEL-10722	ServiceCall : improve configuration of service-call components in Java DSL
CAMEL-10723	Errors in documentation for camel-kinesis
CAMEL-10724	Improve Java DSL support for Java 8
CAMEL-10725	camel-zipkin - Upgrade to zipkin brave 4.x
CAMEL-10726	Correlation of JMS InOut exchanges with custom JMS property
CAMEL-10727	camel-ftp: knownHostsUri configuration with camel 2.18.1
CAMEL-10728	Camel MongoDB Multiple Insert issue
CAMEL-10729	Camel-AWS: S3 autocloseBody option
CAMEL-10730	Camel-Telegram: Support for type \"Document\"
CAMEL-10731	Create a little example for Camel AWS S3 consumer
CAMEL-10732	Remove from all caches when Groovy script is removed from Camel script cache
CAMEL-10734	Add support to track changes from specified sequence
CAMEL-10735	Mark code as deprecated on 2.x
CAMEL-10736	Box component configuration problem
CAMEL-10737	file component should support parent folder in tempFileName
CAMEL-10738	direct-vm component behavior broken in 2.18.1 vs 2.17.4

Issue	Description
CAMEL-10740	Add Tika Component
CAMEL-10741	LogEndpoint error constructing LogProducer
CAMEL-10743	Add support in Salesforce component for plain JSON input and output
CAMEL-10744	Camel Salesforce maven plugin should generate JSON schema
CAMEL-10745	POJO @Produce @Consume does not work with multiple arguments anymore.
CAMEL-10746	camel catalog - Allow to download custom version of runtime provider
CAMEL-10747	CamelContext is not been set in VMConsumer when used with POJO @Consume
CAMEL-10749	Quartz2 interrupt job
CAMEL-10756	Mina2 Producer "\"hang\"" until timeout if the response message could not be decoded
CAMEL-10757	camel-jms - Use dash in destination type enum instead of colon
CAMEL-10759	RABBITMQ Component binding args
CAMEL-10761	ServiceCall EIP : support for chaining service filters/discovery
CAMEL-10764	The use of BrowserCompatHostnameVerifier is deprecated
CAMEL-10765	Remove unused oauth dependency from camel-cxf pom
CAMEL-10766	Create a new camel-elasticsearch5 component for supporting ElasticSearch 5.x Java API
CAMEL-10767	Versions of swagger-models and swagger-parser in conflict
CAMEL-10769	Tika Component - Support Multi-Value Metadata
CAMEL-10770	Upgrade to Spring Boot 1.5.x
CAMEL-10771	CxfEndpoint shows WARNING although endpoint-/port name is configured
CAMEL-10774	camel-catalog - Include other kind of camel artifacts
CAMEL-10775	Add information to components which version they were added to Camel
CAMEL-10780	Add test for DefaultFactoryFinder

Issue	Description
CAMEL-10782	SFTP: cannot get files from users home with readlock changed
CAMEL-10783	XSLT transform cannot use default DTM
CAMEL-10786	Create camel-azure component
CAMEL-10788	Multiple handlers with multiple endpoints on same port causes a handler loop
CAMEL-10789	Indexing with simple expression broken in Apache Camel 2.18
CAMEL-10790	gridfs should be renamed to mongodb-gridfs
CAMEL-10791	Add an option in the ZipFileDataFormat to let the iterator support the empty directory
CAMEL-10795	PingCheck API
CAMEL-10796	camel-example-spring-boot - Remove shell
CAMEL-10797	Create endpoint from uri without context-path
CAMEL-10798	camel-twitter, camel-ignite - Make the uri endpoints separated
CAMEL-10799	camel-connector - Generate spring boot auto configuration
CAMEL-10800	camel-connector - Allow to generate json schema and include it in source code
CAMEL-10801	ServiceCall : add the option to force the service call to use the default load balancer
CAMEL-10802	java.lang.ClassCastException when using FlexibleAggregationStrategy with Spring Boot
CAMEL-10804	Create a salesforce example
CAMEL-10807	Create camel-reactor component
CAMEL-10808	refactoring of spring boot examples
CAMEL-10810	Component docs - Remove .0 from available from
CAMEL-10811	Provide sample Salesforce connector component and example
CAMEL-10812	FactoryFinder: make DefaultFactoryFinder and OsgiFactoryFinder thread safe

Issue	Description
CAMEL-10813	Host address ignored when creating a Restlet Server
CAMEL-10814	Example for Camel Kafka Integration
CAMEL-10817	dumpModelAsXml can return invalid XML namespace xmlns:xmlns
CAMEL-10819	examples - Generate list of examples with description
CAMEL-10820	DefaultFluentProducerTemplate mixes up data when sending asynchronously
CAMEL-10822	Camel Jasypt component throws NPE
CAMEL-10823	Create camel-azure adoc documentation resource
CAMEL-10824	Improve DefaultRuntimeProvider abstraction
CAMEL-10825	camel-opentracing component
CAMEL-10826	camel-salesforce - Logging in as null
CAMEL-10827	camel-twitter - The timeline should defer its first poll to after Camel is started
CAMEL-10828	camel-catalog - Allow to index a maven repo and add new components to the catalog
CAMEL-10830	Race condition when reading principal for one-way web services
CAMEL-10831	camel examples - Add readme files for missing examples
CAMEL-10832	camel-kafka - Allow to configure broker urls on component level
CAMEL-10836	camel-salesforce - Allow to configure login details easier
CAMEL-10837	Migrate EIP patterns to adoc
CAMEL-10838	camel-cache - Create a better body replacer processor
CAMEL-10840	CsvDataFormat.setRecordConverterRef not usable
CAMEL-10841	Move operation will create a warning log message
CAMEL-10842	Component JSon schema - JSon values should not always be string types
CAMEL-10843	Add readme.adoc files for other components

Issue	Description
CAMEL-10844	Component docs - Remove .html generated files in components
CAMEL-10846	Handle 404 situations more gracefully
CAMEL-10847	Component json schema - Include display name for options
CAMEL-10848	Salesforce: configure initialReplayIdMap requires keys to be prefixed with \"'/topic\"
CAMEL-10849	Salesforce: subscription channel created per component
CAMEL-10850	Autogenerate EIP options in documentation files
CAMEL-10851	getBody(Class<T> type) on originalMessage returns null
CAMEL-10853	CsvDataFormat should be completed with 'CSVFormat.withTrim'
CAMEL-10855	Camel adviceWith behaves differently when changing the order of weave statements
CAMEL-10856	ZipkinTracer does not trigger doStart() when used in XML DSL
CAMEL-10857	Make Salesforce integration tests work with new Salesforce instance
CAMEL-10859	camel-jasypt - Update docs about JAR dependency to run
CAMEL-10860	camel-hazelcast - route policy should have a better try lock default value
CAMEL-10861	camel-hazelcast - route policy should have JMX api
CAMEL-10862	camel-consul - ConsultRoutePolicy - Allow to configure host port easier
CAMEL-10863	Maven WAR plugin fails on Java 9
CAMEL-10865	camel catalog - Add catalog for connectors
CAMEL-10866	platforms/catalog - rename folders to match their artifact id name
CAMEL-10868	Create camel-spring-cloud-netflix component
CAMEL-10869	TRACE on ftp component reveals password
CAMEL-10870	camel-sql stored procedures don't support negative vendor-specific JDBC types
CAMEL-10871	camel-kafka - allow to retrieve whether it's the last record before commit

Issue	Description
CAMEL-10872	camel-jgroups : upgrade to JGroups 4.0
CAMEL-10873	camel-sjms transacted routes dead-lock when exceptions are thrown by asynchronous processors
CAMEL-10874	JettyHttpComponent sets selector threads to 0 when running on 1 CPU
CAMEL-10876	service-call eip : add a spring-boot example
CAMEL-10877	service-call eip : add a spring-cloud example
CAMEL-10878	camel-http / camel-http4 - Allow to specify HTTP operation as uri parameter
CAMEL-10881	Include the Cassandra quickstart from Fabric8 into Camel
CAMEL-10882	camel-hazelcast - Allow to configure default operation as string value
CAMEL-10883	Support HTTP 1.1 continue in Undertow
CAMEL-10884	Add a cleanrepo profile to Maven build
CAMEL-10885	Add mask option to log EIP and log component
CAMEL-10886	Support Limits API response from Salesforce v39.0
CAMEL-10888	camel-spring-ws - Has problem with returning proper response due invalid IN vs OUT code
CAMEL-10889	camel-telegram and html styled messages
CAMEL-10893	PDU is lost when SnmpMessage is copied
CAMEL-10894	XML Validator: Improve DTD handling
CAMEL-10895	xmlbeans-maven-plugin fails on JAVA9
CAMEL-10896	camel-infinispan - Stores result in header and not body
CAMEL-10897	camel-jcache - Allow to configure cache provider on component
CAMEL-10898	camel-catalog - Allow to add custom component/connector by download JAR via maven
CAMEL-10900	OutOfMemoryError with big file in ftp or sftp producer with charset assigned

Issue	Description
CAMEL-10901	Add support to Kafka consumer to seek to end of topic
CAMEL-10904	Scala fails on JAVA 9
CAMEL-10905	camel-groovy fails on JAVA 9
CAMEL-10906	http components: not all the options supported by component/endpoints are shown in the documentation
CAMEL-10907	http components: have a common way to express concepts like proxy
CAMEL-10908	Introduce DataTypeAware interface and let MessageSupport implement it
CAMEL-10911	Avoid non singleton endpoints, consumer and producers
CAMEL-10912	camel-sjms - Session object created from connection that gets closed
CAMEL-10913	CORS header Access-Control-Allow-Credentials not managed correctly
CAMEL-10914	CxfConsumer doesn't clean up the CXF endpoint MBean upon stop
CAMEL-10915	Add type conversion support for java.net.URI
CAMEL-10916	camel http4 component does not send a body when the http method DELETE is used
CAMEL-10917	Implementations of RestProducerFactory should handle empty or null basePath and uriTemplate
CAMEL-10918	camel-sjms - JMS 2.0 shared subscriptions
CAMEL-10919	Auto expose Hystrix metrics servlet in spring-boot web
CAMEL-10920	camel-zipkin - Lookup SpanCollector from registry and support Zipkin Reporter
CAMEL-10921	Add Elasticsearch5 Karaf Feature
CAMEL-10922	jaxb2-maven-plugin fails on Java 9
CAMEL-10923	PingCheck API: Make camel-catalog aware of what verification scope a component supports
CAMEL-10924	PingCheck API : Support validation through JMX
CAMEL-10925	spring-boot - Verify compatibility with latest spring-boot

Issue	Description
CAMEL-10926	Set the Host header in Undertow producer
CAMEL-10927	Add Kafka topic-based IdempotentRepository
CAMEL-10928	Restlet contract for RestProducerFactory wrongly configures request method
CAMEL-10929	Undertow producer wrongly configures HTTP request path
CAMEL-10930	Move groovy dsl into camel-groovy-dsl
CAMEL-10931	Missing REST outTypeList attribute in Spring XML
CAMEL-10932	REST Swagger component
CAMEL-10933	camel-guice - Deprecate this module
CAMEL-10934	Idempotent Consumer EIP - Should prepare idempotent repository better
CAMEL-10936	Salesforce Login exception: the error code is not reported properly
CAMEL-10937	Camel components - Configured using setters should support property placeholders
CAMEL-10938	Camel Salesforce : add an option to retrieve login information for testing purpose from env var or system properties
CAMEL-10939	Restlet contract for RestConsumerFactory does not start the Endpoint
CAMEL-10940	Component docs - Separate path and query parameters
CAMEL-10941	Component docs - Remove raw marker
CAMEL-10944	camel-kafka - When consumer stop it should auto commit
CAMEL-10945	camel-ssh - Unit test fails
CAMEL-10947	camel-box - Karaf and log4j2
CAMEL-10948	Camel-hdfs2: initialDelay option is overwritten with default value
CAMEL-10949	Websocket clients get message from all resources on one port
CAMEL-10950	Enable camel-docker configuration to accept a custom DockerCmdExecFactory
CAMEL-10951	Invalid default field values in Spring Boot ComponentConfiguration classes

Issue	Description
CAMEL-10952	Kinesis Firehose support
CAMEL-10953	Add messageAttribute support to AWS SNS component
CAMEL-10954	Can't find dependency org.apache.camel:camel-box2
CAMEL-10957	Log a warning if the response cannot be unmarshalled in Composite API
CAMEL-10958	camel-scala-starter starter module removed but references to it still exist
CAMEL-10959	camel-catalog-core - Allow to reuse the validation and other apis in camel-core as well
CAMEL-10963	KinesisFirehoseProducer sets the deliverStreamName using getEndpointKey() instead of getStreamName()
CAMEL-10964	CXF http-jetty transport reverse proxy configuration will not work when using @BeanInject in RouteBuilder bean
CAMEL-10966	Salesforce Maven Plugin doesn't escape strings when doing the camel-salesforce:generate phase.
CAMEL-10967	camel-catalog-connector - Add api to build endpoint uri based on connection options
CAMEL-10968	camel-cxf tests fails on Java 9
CAMEL-10969	JSonSchemaHelper - Json parser should we use json-simple instead
CAMEL-10970	RuntimeCamelCatalog - Add JMX api
CAMEL-10971	Remove camel-catalog karaf commands
CAMEL-10973	Deprecate ruby, python and php scripting languages
CAMEL-10974	Component docs - Show deprecation INFO
CAMEL-10975	camel-catalog-maven - Allow to configure temp folder
CAMEL-10976	camel-spring-boot - Configure rest configuration using auto configuration
CAMEL-10977	Add a camel-hazelcast example on Kubernetes
CAMEL-10978	Camel-Hazelcast: support client mode

Issue	Description
CAMEL-10980	error with enableCORS(true) with camel-undertow
CAMEL-10983	Fail early and show meaningful log for invalid endpoint URI in Blueprint
CAMEL-10984	Creating consumer should inject CamelContext if consumer is aware
CAMEL-10985	camel-coap fails to return results when enableCORS(true) is set
CAMEL-10986	zookeeper-master - Master component for cluster/slave
CAMEL-10987	camel-test-karaf - Change breaks other tests
CAMEL-10988	Improve performance of CaseInsensitiveMap
CAMEL-10989	camel-test-blueprint MyMainAppTest is failing
CAMEL-10991	ServiceCall - Allow to configure global configuration
CAMEL-10992	Hystrix - Allow to configure global configuration
CAMEL-10993	camel-kafka - Do not WARN per message for no key or partition
CAMEL-10994	camel-kafka - Allow to configure more options on component level
CAMEL-10995	camel-spring-boot - Generated auto configuration and default value problems
CAMEL-10996	camel-kafka - Upgrade to 0.10.2.0
CAMEL-10997	test errors on master branch
CAMEL-10998	jetty producer - should be deprecated
CAMEL-11000	Property 'accessExternalDTD' is not recognized by (all) Xerces
CAMEL-11002	Camel-Blueprint - failed container fails to remove JMX object
CAMEL-11003	camel-google-calendar - Easier to configure scopes
CAMEL-11004	camel-connector - Allow to define what the data type is as output/input
CAMEL-11006	Auto generate REST DSL for Camel from Swagger2.0/OAI specification
CAMEL-11007	camel-spring-boot - Default values which was negative may have become positive

Issue	Description
CAMEL-11008	Consumer/Producer templates are not stopped when auto-configured in Spring Boot
CAMEL-11009	Camel spring - spring.schemas file contains unexpanded maven properties in release artefact
CAMEL-11011	Make all Services Closeable
CAMEL-11012	bindy csv doesn't populate with defaultValue on marshal
CAMEL-11013	Support OAuth 2.0 JWT Bearer Token Flow
CAMEL-11015	Encoding issues in camel-salesforce-maven-plugin
CAMEL-11016	Add an option in the TarFileDataFormat to let the iterator support the empty directory
CAMEL-11018	camel-ehcache: make it easy to create temporary caches
CAMEL-11019	Customise message history dump format
CAMEL-11020	Camel Kubernetes consumers do not close watchers
CAMEL-11021	Missing javadoc on rest-dsl model
CAMEL-11022	camel-salesforce - Compile error
CAMEL-11023	Hystrix Starter : add an option to configure additional configuration via spring-boot properties
CAMEL-11024	service call eip: add an option to add additional configurations via spring-boot properties
CAMEL-11025	RestProducer should set Accept and Content-Type headers if given in endpoint configuration
CAMEL-11026	RestletProducer should allow multiple values in HTTP Accept header
CAMEL-11027	Camel-Hazelcast: Support Reliable Topic
CAMEL-11028	camel-spark-rest - Adds duplicate content-type
CAMEL-11033	Set operationId in generated Swagger specification
CAMEL-11034	Undertow producer does not support https

Issue	Description
CAMEL-11037	Ping Check API - Add javadoc
CAMEL-11043	ServiceCall : allow to use placeholders for name, uri, etc
CAMEL-11044	CLONE - EndpointHelper.resolveReferenceListParameter should not return immutable lists
CAMEL-11045	onCompletion does not trigger on failure if split is in route
CAMEL-11046	camel-undertow - Allow to consume from root path more without ending slash
CAMEL-11047	STARTTLS broken with camel-mail
CAMEL-11048	Jetty Producer always uses \"Transfer-Encoding: chunked\" header
CAMEL-11049	camel-package-maven-plugin - Add option to ignore no model in core for custom 3rd party data formats
CAMEL-11050	Support for optional query parameters in REST component
CAMEL-11051	Support query parameters in rest-swagger
CAMEL-11052	Soap11DataFormatAdapter throwing exception when using JAXB/JAX-WS generated code
CAMEL-11053	camel-undertow - Compile error
CAMEL-11054	Create SPI for Log EIP to enable other components to intercept/enrich logged messages
CAMEL-11055	Ping Check API - Allow to use lower case scopes
CAMEL-11056	Create a new camel-olingo4 component for supporting OData 4.0
CAMEL-11057	Undertow Producer : NPE if tryConvertTo fails to convert exchange body to ByteBuffer
CAMEL-11058	camel-olingo2 component doesn't support OData 3.0
CAMEL-11059	camel-spring-dm - Should be removed
CAMEL-11060	dn shouldn't be strictly required for Spring LDAP component
CAMEL-11061	service call eip: add an option to set global defaults

Issue	Description
CAMEL-11062	New camel-digitalocean component
CAMEL-11063	PGP Decryptor does not make Integrity check
CAMEL-11064	Add activemq-amqp to parent POM
CAMEL-11065	Cannot parse CSV record starting with separator character
CAMEL-11066	Make salesforce authentication options simpler to configure
CAMEL-11067	camel-hystrix - Include default values in spring-boot auto configuration
CAMEL-11068	Remove deprecated usage from Salesforce component
CAMEL-11070	camel-aws - SQS - Allow to configure aws queue url
CAMEL-11072	Remove non-Maven plugin related executions from Salesforce Maven POM
CAMEL-11073	camel-rest - Spring boot option named c-o-r-s
CAMEL-11074	Unable to load Schematron XSLT templates on windows
CAMEL-11075	AbstractSalesforceTestBase::doCreateRouteBuilder should be optional
CAMEL-11076	Refactor addSecurityHandlerMethod to addProtocolHandlerMethod
CAMEL-11077	Remove toString method in SalesforceException
CAMEL-11080	OnExceptionDefinition validation ignores redeliveryPolicy field
CAMEL-11081	camel-consul: add support for additional http api
CAMEL-11082	camel-consul : make it easy to configure components and service-discovery in spring-boot
CAMEL-11083	camel-etcd : make it easy to configure components and service-discovery in spring-boot
CAMEL-11084	camel-dns : make it easy to configure components and service-discovery in spring-boot
CAMEL-11085	camel-kubernetes : make it easy to configure components and service-discovery in spring-boot
CAMEL-11090	Add trimToNull method to StringHelper

Issue	Description
CAMEL-11091	REST Swagger handling of empty specificationUri
CAMEL-11092	If setting Exchange.REST_HTTP_URI the RestProducer should remove Exchange.HTTP_PATH header
CAMEL-11093	NPE when defaultValueProvider not given
CAMEL-11095	Enumerate all OperationName in @UriPath of operationName
CAMEL-11098	FacebookEndpointConfiguration bean not taken into account as a UriParam
CAMEL-11099	Unhandled ClassCastException if fault detail is not JaxbElement
CAMEL-11100	service-call : add an option configure the expression to use (i.e simple)
CAMEL-11103	Add camel-digitalocean Karaf feature
CAMEL-11105	camel-eventadmin does not allow multiple consumers with the same URI
CAMEL-11106	camel-sql - allow using the \$simple{} syntax for query arguments
CAMEL-11107	Create a new camel-grpc component
CAMEL-11108	camel-infinispan : change the uri syntax from infinispan:hostName to infinispan:cacheName
CAMEL-11109	Failed to resolve endpoint when using destination.consumer.exclusive
CAMEL-11110	REST component host parameter handling
CAMEL-11111	Camel-Undertow: throwExceptionOnFailure doesn't work as expected
CAMEL-11112	Make sure streams are closed in camel-catalog
CAMEL-11113	Camel catalog's asEndpointUri mangles endpoint URIs for unequal number of tokens
CAMEL-11115	Enhance binding support in RestComponent
CAMEL-11116	Better handling of query parameters in RestProducer
CAMEL-11117	The searchTerm subjectOrBody breaks the searchTerm unseen
CAMEL-11118	PingCheck : validate rest component

Issue	Description
CAMEL-11121	Create a Camel-gRPC karaf feature
CAMEL-11122	camel-reactive-streams - Add more JMX information
CAMEL-11123	Rename CamelReactiveStreamsServiceImpl to DefaultCamelReactiveStreamsService
CAMEL-11124	camel-reactive-streams - Allow to silently ignore discarded messages
CAMEL-11125	camel-reactive-streams - Consumer should allow to not refill so frequently
CAMEL-11126	camel-connector - Make it easy to schedule a connector
CAMEL-11130	Jenkins - Camel.trunk.itest.karaf doesn't run all tests in camel-itest-karaf
CAMEL-11131	Timer consumer - Should call start/stop of the processor
CAMEL-11133	Data format - Marshal and unmarshal should eager start their data formats
CAMEL-11135	camel-protobuf component improvements
CAMEL-11136	Create PubNub component
CAMEL-11138	ConsumerTemplate - If cache is full then polling consumer should be stopped to not leak resources
CAMEL-11139	ClassNotFoundException may silently be ignored in InProducer
CAMEL-11140	camel-reactive-streams - Add uuid for CamelSubscription
CAMEL-11141	Add support for VPC instances
CAMEL-11143	Create a Maven plugin that creates REST DSL source code from Swagger specification
CAMEL-11144	camel-milo - Use dynamic port in test
CAMEL-11145	Component docs - Fix broken links on github
CAMEL-11146	Update description for all data formats and languages on big readme file
CAMEL-11147	camel-jms2 - JMS component using JMS 2.x api
CAMEL-11148	camel-reactive-streams: too many backpressure strategies

Issue	Description
CAMEL-11149	SPI - Allow to plugin different headers map implementation
CAMEL-11152	camel-ssh - Allow to use message headers for username/password
CAMEL-11153	camel-protobuf - itest starts to fail again
CAMEL-11154	itest - spring-boot fails for camel-hbase
CAMEL-11155	camel-infinispan - producer command and operation discrepancies
CAMEL-11156	Camel-Kubernetes: Add support for Deployment resources
CAMEL-11160	Component docs - ascii doc warns
CAMEL-11163	Add @Generated annotation in REST DSL Swagger generated code
CAMEL-11164	Add @Generated annotation Salesforce generated code
CAMEL-11165	Add @Generated annotation to code generated by SpringBootApplicationMojo
CAMEL-11166	@Generated annotation and java 9 problem
CAMEL-11167	Include Camel name in spring boot health check
CAMEL-11168	Add deprecationNote to @Metadata
CAMEL-11170	Service Call : add a spi for component to provide a custom expression to build the camel uri
CAMEL-11171	camel-zookeeper-master - RAW() and child endpoint issue
CAMEL-11173	Integration tests for camel-restdsl-swagger-plugin fail on JDK 9
CAMEL-11175	REST DSL Swagger generator default generated class/package names
CAMEL-11177	CoAP component starts redundant server instance
CAMEL-11178	Default method on interface is invisible during Camel Simple evaluation
CAMEL-11179	MultiThread race condition in DefaultShutdownStrategy for suspend/resume
CAMEL-11180	Place Eclipse workspace setup in camel-etc in a profile
CAMEL-11181	Replace gmaven with gmavenplus Maven plugin

Issue	Description
CAMEL-11183	Checkstyle errors in camel-package-maven-plugin
CAMEL-11185	Remove camel-scr-starter spring boot module
CAMEL-11186	Upgrade dropwizard metrics
CAMEL-11187	Java 9 - building camel-spring has a maven WARN
CAMEL-11188	Use Files.newFileInputStream instead of new FileInputStream
CAMEL-11189	Upgrade zipkin
CAMEL-11190	Service Call - Allow to configure static server list from a property placholder
CAMEL-11191	Service Call - XML configuration of static servers called servers instead of server
CAMEL-11192	Service Call - Some unused code in camel-core
CAMEL-11194	Upgrade Checkstyle and update rules
CAMEL-11196	Camel connectors - Allow to configure in one place and let it figure out component vs endpoint level
CAMEL-11198	OpenTracing trace context should cope with Hystrix using separate thread
CAMEL-11201	camel-reactive-streams - Cannot create service in spring-boot
CAMEL-11202	Salesforce verifier should not throw exceptions
CAMEL-11203	Verifier should support exclusion of properties in option groups
CAMEL-11206	camel-twitter - The default delay is not used
CAMEL-11208	camel-swagger-java - Should use guava 20 and not 19
CAMEL-11209	camel-core-starter - Should not have caffeine dependency
CAMEL-11210	Don't return null for getErrors in SalesforceException
CAMEL-11211	Remove deprecated SpanManager from camel-opentracing
CAMEL-11212	Don't allow Salesforce HTTP client to stop with outstanding requests
CAMEL-11213	camel-grpc doesn't terminate channel when producer stops

Issue	Description
CAMEL-11214	FluentProducerTemplate - Should allow non default uri
CAMEL-11215	Camel Kafka component commits offsets in case of exceptions
CAMEL-11216	REST-DSL - Producer fails with NPE or other exceptions if you have not set a hostname
CAMEL-11220	camel-twitter - Allow to sort tweets so oldest come first
CAMEL-11221	camel-netty4-http cannot have a URL larger than 409 bytes by default, rather than the assumed 4096 byte limit
CAMEL-11222	Spring Boot Mojo should use formatter properties from JBoss Forge
CAMEL-11224	aws-sqs producer does not support new FIFO queues
CAMEL-11225	Deadlock in component creation
CAMEL-11229	Infinite recursion if exception happens inside exception handler
CAMEL-11232	Fix camel-example-spring-boot-rest-jpa example
CAMEL-11233	Allow overriding the setting of instanceUrl
CAMEL-11234	NullPointerException while trying to get the Route Status on startup
CAMEL-11235	Simple Language: AmbiguousMethodCallException when calling method implemented by super class when method is defined by interface and abstract class
CAMEL-11236	camel-grpc - improve streaming capabilities to bridge reactive streams
CAMEL-11237	camel-grpc - Add a grpc consumer
CAMEL-11239	camel-catalog-maven - Remove sl4j logger
CAMEL-11242	Split camel-twitter component
CAMEL-11243	Split camel-kubernetes component
CAMEL-11244	camel-hazelcast: use string/enum instead of numeric operation type
CAMEL-11245	camel-opentracing refers to no longer used GlobalTracer
CAMEL-11247	camel-spring-boot - Improve BOM to work better with start.spring.io

Issue	Description
CAMEL-11251	Curcular dependency from buildtools to buildtools via license-plugin
CAMEL-11253	camel-http4 - Add missing doc to component option
CAMEL-11254	Default matchOnUriPrefix to false on Undertow endpoint
CAMEL-11256	Make camel-docker work on OSGi
CAMEL-11258	Use TracerResolver to obtain Tracer
CAMEL-11259	Add Distinct queries to camel-mongodb
CAMEL-11260	Use Couchbase client OSGi bundle in Karaf feature
CAMEL-11261	Revise Camel context destruction in Spring (Boot) applications
CAMEL-11263	set HeaderFilterStrategy before setting properties
CAMEL-11264	Potential NPE in DefaultUndertowHttpBinding
CAMEL-11265	Fix maven warning about fork option
CAMEL-11266	The ehcache component creates a separate CacheManager per producer route
CAMEL-11267	Add SpanDecorator for 'rest' component
CAMEL-11268	Upgrade camel-infinispan to support Infinispan 9.x
CAMEL-11269	URISupport sanitizeUri partial support for RAW()
CAMEL-11271	Support placeholders on attributes of camelContext element
CAMEL-11272	ReloadStrategySupport wrongly logs "\"Routes with no id's detected\""
CAMEL-11273	ReloadStrategySupport does take changed routeContext files into account
CAMEL-11274	ReloadStrategySupport is not easy extendable because of a number of private's
CAMEL-11275	FileWatcherReloadStrategy only watches on specific folder and no sub-folders
CAMEL-11276	camel-restlet URI uses () rather than { } for path parameters
CAMEL-11277	camel-restlet - Should include component name in from endpoint uri
CAMEL-11279	Camel hystrix does not handle exceptions properly

Issue	Description
CAMEL-11280	camel-twitter : hard-coded component scheme
CAMEL-11281	camel-spring is not usable in an osgi-context
CAMEL-11282	Camel components should extend DefaultComponent
CAMEL-11283	camel-hystrix-starter - The circuitBreakerForceClose option is default true which should be false
CAMEL-11284	camel-ehcache: allow to configure some options like a global cache manager on component level
CAMEL-11285	Camel-Elasticsearch5: Upgrade to Elasticsearch 5.3.x
CAMEL-11286	Imported Xquery modules will not resolve using classpath - Regression
CAMEL-11287	MDC routeld value is lost after calling a direct route from a transacted route
CAMEL-11288	camel-grpc producer incorrectly called async services
CAMEL-11290	Camel-Infinispan: Continuous Query, add support for recordUpdated event
CAMEL-11291	spring boot starters: allow to hook into auto configuration process
CAMEL-11293	Rest DSL Producer HTTP ignores http verb from uri
CAMEL-11294	Repair not-working-examples or mark as deprecated
CAMEL-11296	camel-maven-plugin:validate - Allow to detect duplicate route ids
CAMEL-11297	camel-ehcache-starter : auto discovery cache manager
CAMEL-11298	Using chmodDirectory with full paths makes file producer to created directories relative to source
CAMEL-11299	Camel Rest DSL Does Not Creating OPTIONS routes for defined routes
CAMEL-11301	Camel-weather and camel-geocoder: freegeoip.io/json has been moved permanently
CAMEL-11302	camel-infinispan-starter : enable cache manager auto discovery
CAMEL-11305	camel-test - Using dump route coverage with custom processor may cause NPE
CAMEL-11307	Create Camel-Azure Karaf feature

Issue	Description
CAMEL-11308	MongoDB: No (auto) conversion for BigDecimal
CAMEL-11309	Components missing from parent POM dependency management
CAMEL-11310	"code too large" when generating Salesforce DTOs
CAMEL-11311	example - Add example for Spring Boot with external ActiveMQ broker
CAMEL-11312	camel-undertow - Rest-DSL should support OPTIONS
CAMEL-11313	set defaultValue for FixedLength and other factories
CAMEL-11314	Fix failing tests in camel-swagger-java
CAMEL-11315	Replace dummy URI paths on directmessage and search with something meaningful
CAMEL-11316	camel-restlet - Rest-DSL should support OPTIONS
CAMEL-11317	[OSGi, camel-jpa] Problems with mapping idempotent.jpa.MessageProcessed with Aries + Hibernate
CAMEL-11318	camel-ehcache: allow to configure named caches programmatically
CAMEL-11319	sql-stored - Add support for function
CAMEL-11320	sql-stored - Should not extend polling endpoint as its not for consumer
CAMEL-11321	Can CamelContext startup faster
CAMEL-11322	Swagger Rest DSL Generator needs to build before its maven plugin
CAMEL-11324	Deprecate camel-krati
CAMEL-11326	Exclude org.json from camel-spark
CAMEL-11328	camel-example-cdi-test - Fix invalid logging format
CAMEL-11329	swagger-dsl-generator artifact changed names to camel-swagger-dsl-generator, need to fix poms
CAMEL-11330	DefaultExchange - Look at optimize the Map implementation used for storing properties
CAMEL-11331	camel-kubernetes - Add Kubernetes based RoutePolicy

Issue	Description
CAMEL-11332	Create a new camel-thrift data format
CAMEL-11333	Create a new camel-thrift RPC component
CAMEL-11334	camel-grpc - Unit test fails due port number issue
CAMEL-11335	Create Actuator endpoint to expose route information
CAMEL-11336	Update dozer to latest
CAMEL-11337	Camel-Infinispan: Add support for GetOrCreate operation on Producer
CAMEL-11338	New DefaultUuidGenerator to startup Camel faster
CAMEL-11339	LRUCache - Optimise to use LongAdder instead of AtomicLong
CAMEL-11340	JMX performance statistics - Consider optimise to LongAdder
CAMEL-11341	Optimize DefaultEndpointUtilizationStatistics
CAMEL-11342	Optimize ManagedRoute
CAMEL-11343	gRPC component cannot load service class
CAMEL-11345	Remove dependency on spring-core from gRPC component
CAMEL-11346	Optimize EventNotifier sending/sent exchange
CAMEL-11347	Optimize AsyncCallback in EIPs to use reusable static classes
CAMEL-11348	Small Performance optimization in RestConsumerContextPathMatcher
CAMEL-11349	Optimize EventNotifier to reuse Event instance
CAMEL-11350	Optimize - Stopwatch should be tiny to have less memory footprint
CAMEL-11351	Optimize - ProducerCache - Avoid creating new processor for each send if result processor
CAMEL-11352	duplicated/missing logs when camel-paxlogging work with pax-logging-log4j2
CAMEL-11353	Optimise - JMX Statistic split into specialized classes
CAMEL-11354	Optimise - JMX oldest inflight can be optimised

Issue	Description
CAMEL-11355	Consumer - ErrorHandler should ignore rejected exception due to shutdown
CAMEL-11356	Camel-Kubernetes: refactoring tests by using Kubernetes-server-mock and Openshift-server-mock
CAMEL-11357	Change examples groupId and disable publishing to Maven central
CAMEL-11358	Optimise - Event listener to avoid copy on write array list
CAMEL-11359	Deprecate TracedRouteNodes in favour of message history
CAMEL-11360	Optimise - Disable Tracer and use BacklogTracer instead
CAMEL-11362	create a LeaderElectionService
CAMEL-11363	Optimise - Use ArrayDeque instead of Stack
CAMEL-11364	Runtime endpoint registry - Do not use extended mode as default
CAMEL-11365	camel-spring-boot - allowUseOriginalMessage should have same default as camel-core
CAMEL-11366	Optimise - bean component result - only need to propagate headers if really needed
CAMEL-11368	Optimise - Runtime endpoint registry - Turn off by default
CAMEL-11369	camel-spring-boot-starter generator paste incorrect default value
CAMEL-11373	Create a Camel Twilio component
CAMEL-11374	Add JMX details to Camel Actuator endpoint
CAMEL-11375	Optimise - BeanProcessor - Make light-weight not as service
CAMEL-11377	Optimise - Bean expression invoking bean can use static method instead of creating new objects
CAMEL-11378	Upgrade to Apache Flink 1.3.0
CAMEL-11379	Optimise - core type converters to be invoked faster
CAMEL-11380	Optimise - Allow to turn DataType on or off on Message

Issue	Description
CAMEL-11381	Upgrade camel-opentracing to use OpenTracing-Java 0.30.0 with active span management
CAMEL-11382	Creating IgniteComponent from Ignite Instance throws IllegalStateException
CAMEL-11383	Replace Jersey JAX-RS client with CXF in Bonita component
CAMEL-11384	camel-spring-boot - Add auto configuration for turning on MDC logging
CAMEL-11385	Camel-metrics Karaf feature can't be installed
CAMEL-11386	Potential NullPointerException if HTTP client not started and stop was performed
CAMEL-11387	SFTP is delivered into incorrect location, without exception (file in subfolder + temp file is created + Camel running on Window & SFTP server running on LINUX)
CAMEL-11388	camel-infinispan - InfinispanRoutePolicy issue with locking from remote server
CAMEL-11389	add karaf feature for camel-fastjson
CAMEL-11390	camel maven plugin (2.19.0) downloading catalog when configuration disabled it
CAMEL-11393	sql-stored - Add support for typeNames and scale in grammar
CAMEL-11395	upgrade maven-surefire-plugin
CAMEL-11396	Upgrade wsdl4j to 1.6.3
CAMEL-11398	camel-google-calendar should throw more friendly exception when the required credentials lack
CAMEL-11400	RoutePolicySupport - Should have separated suspend/resume vs start/stop consumer
CAMEL-11402	Logic error in authentication type determination
CAMEL-11404	Upgrade to JPA 2.1
CAMEL-11407	camel-opentracing loggingtracer needs to build before client
CAMEL-11409	The time camel waits for a WriteFuture to complete is hard-coded 10 seconds, this should be configurable

Issue	Description
CAMEL-11410	camel-spring - Should not list uris as spring bean ids from Camel routes
CAMEL-11411	camel-opentracing example uses incorrect groupId
CAMEL-11413	camel-olingo - Potential NPE in getting content-type header
CAMEL-11414	camel-restlet - Rest DSL issue with empty path variables
CAMEL-11416	The overrides removal loop from BeanInfo.introspect(Class<?>) is no more necessary
CAMEL-11420	Add contains ignore case operator to simple language
CAMEL-11421	Tokenizer - Allow to define group number as simple language
CAMEL-11422	Mark plugin as threadsafe
CAMEL-11423	Accept header is not compliant with IETF RFC-7231
CAMEL-11424	Endless wait when unhandled exception occurs in camel-olingo
CAMEL-11425	Camel Olingo needs a way to dynamically set and receive HTTP headers
CAMEL-11427	camel-leveldb does not work on Solaris — no native code library and no Java fallback
CAMEL-11428	Remove IDEA plugin and doc
CAMEL-11429	camel-box is not assigning default configuration values
CAMEL-11432	Unable to skip tests when building camel-grpc
CAMEL-11433	Unable to use camel-box in OSGI environment
CAMEL-11434	camel-hazelcast: auto discovery of hazelcast instances in spring-boot
CAMEL-11435	Camel-Caffeine: Support Time-based and size-based eviction in Caffeine
CAMEL-11436	camel-spring-ldap - Has test failures
CAMEL-11437	Bug using file endpoint probeContentType and preMove attributes together causes Exchange.FILE_CONTENT_TYPE to get dropped. (2.19.0)
CAMEL-11438	New crypto component CMS (Cryptographic Message Syntax)

Issue	Description
CAMEL-11439	Camel-Caffeine: Create an Aggregation Repository using Caffeine
CAMEL-11441	Main - setPropertyPlaceholderLocations should be public
CAMEL-11442	Optimise - Use existing exchange id as breadcrumb
CAMEL-11443	Add a RouteController SPI to allow to customize routes life-cycle
CAMEL-11446	Look at using awaitility in camel-core tests when we wait via thread sleep etc
CAMEL-11447	Optimise - MessageHistoryFactory should use long instead of Date
CAMEL-11448	Optimise - Routing engine can avoid check for interrupted exception which does not occur anymore
CAMEL-11450	Optimise - Calling a bean without method name defined can be optimised
CAMEL-11452	It should be possible to add extra headers for STOMP subscriptions
CAMEL-11453	Fix camel-box feature
CAMEL-11454	camel-zipfile dataformat cannot remove successfully processed files
CAMEL-11455	Automatic transform String to DBObject after previous conversion error
CAMEL-11456	Make the camel-grpc component more cloud service friendly
CAMEL-11457	camel-atomix - No new leader when all nodes are killed forcefully
CAMEL-11458	Avoid the use of the scriptengines libraries from google code
CAMEL-11460	Camel-Infinispan: If a Default Configuration is not provided then a DefaultCacheName must be provided
CAMEL-11461	SEDA - resolve references for concurrentConsumers, limitConcurrentConsumers
CAMEL-11462	Nashorn javascript library can not be found in OSGi
CAMEL-11464	Upgrade to rhino 1.7.7.1
CAMEL-11465	NPE caused by IrcMessage
CAMEL-11466	camel-tarfile dataformat cannot remove successfully processed files
CAMEL-11467	Camel-bindy tests fail depending on the locale

Issue	Description
CAMEL-11469	Camel-Hipchat - Configure via xml is broken
CAMEL-11470	Camel-Core: DefaultShutdownStrategy, pass the logInflightExchangesOnTimeout to the ShutdownTask
CAMEL-11471	Unable to update the cron details from Quartz scheduler MBean
CAMEL-11474	Camel-Hipchat: Allow configurable http client
CAMEL-11475	Provide a route Connector/Component
CAMEL-11476	spring-boot - routes not loaded when setting a management.port
CAMEL-11477	Can not override isUseAdviceWith in CamelBlueprintTestSupport
CAMEL-11478	Revise what Salesforce component properties are marked as secret
CAMEL-11479	beanio - Unmarshalling multiline values as multiple records
CAMEL-11482	SSLContextParameters settings are not properly copied to SslContextFactory
CAMEL-11483	Optimise - Recording time taken for each processor should be advice
CAMEL-11484	Optimise - Simple Language / ExpressionBuilder can use cache of frequent used expressions when having nested functions
CAMEL-11486	NullPointerException for invalid payload with session handling enabled
CAMEL-11487	Support resources load through custom defined protocols by registering custom UrlHandlers
CAMEL-11489	Declaring AWS endpoint with accessKey and secretKey, and without amazonS3Client should be possible.
CAMEL-11490	camel-spring-boot - Make it easy to filter Java RoutesBuilder from properties
CAMEL-11491	Apply non-mandatory nature of amazon client to AWS components being able to specify accessKey and secretKey
CAMEL-11492	New Camel website
CAMEL-11497	Migrate the rest of the Confluence content
CAMEL-11506	MavenVersionManager blocks on unavailable URL

Issue	Description
CAMEL-11507	camel-servicenow : add an header to indicate the answer data type
CAMEL-11509	Cannot set content type with parameters without specifying charset
CAMEL-11510	The consumer endpoint for Twitter component timeline/user doesn't poll the tweets even if the type is set to polling and delay attribute doesn't work
CAMEL-11514	xslt component - Add support for ref and bean in resource uri
CAMEL-11515	Aggregator is not working correctly when completionTimeout < 1000ms
CAMEL-11516	FtpConsumerFileSplitTest fails on windows due to platform line.seperator
CAMEL-11518	Add an Mvc Actuator endpoint for exposing Camel routes
CAMEL-11520	camel-hipchat: Unable to send to room name containing spaces
CAMEL-11523	JasyptPropertiesParser fails on properties references with default value
CAMEL-11524	Camel File Consumer fails when doneFileName contains '\$'
CAMEL-11526	Several files in user manual issue warnings when processing with asciidoctor
CAMEL-11528	WireTap - Allow to specify the url as non-dynamic
CAMEL-11529	Wrong syntax definitions in camel catalog
CAMEL-11531	camel-http-common; dependency servlet-api should be set to provided
CAMEL-11532	java 8 dsl : allow to set the body using a supplier
CAMEL-11533	Simple language - comparison against negative value fails with unknown token
CAMEL-11534	Incorrect transferExchange option test in camel-jms component
CAMEL-11537	undertown consumer : consumer silently fails to start if manually started after a failure
CAMEL-11539	WireTap - Add support for defer shutdown if pending tasks are active
CAMEL-11540	Unable to disable ProducerCache by setting cacheSize=\"-1\"
CAMEL-11542	camel-kafka - Add any new options from kafka 0.11.0 to the endpoint

Issue	Description
CAMEL-11543	Camel doesn't support @TestPropertySource
CAMEL-11545	Avoid double dot in enriched with default value in XML XSD
CAMEL-11547	camel-core: load route definitions from registry
CAMEL-11548	camel-undertow consumer shall use InOut ExchangePattern
CAMEL-11549	Cant run camel zipkin example with latest zipkin-server
CAMEL-11550	Component extensions
CAMEL-11551	Use abstract base class for all context and route events
CAMEL-11552	Provide FailureEvent interface as a general means of retrieving the cause
CAMEL-11554	ServiceNow : add meta data extension to retrieve table's structure
CAMEL-11555	ServiceNow : create a maven plugin to generate models based on table layout
CAMEL-11556	ServiceNow : add annotations on the model to customize sysparms
CAMEL-11558	camel-jsonpath - Split via jsonpath loses quotes in json output
CAMEL-11559	NPE when not setting a sampling interval on client subscriptions
CAMEL-11560	ServiceNow : allow to expand reference types in import_set response
CAMEL-11561	Cleanup Salesforce integration tests setup
CAMEL-11563	Add predicate option to @Consume so the bean is only called if its evaluated to true
CAMEL-11564	avoid ClassCastException when the gzip is enabled for the cxf endpoint with camel destination
CAMEL-11568	Allow to set a CookiePolicy to CookieHandler
CAMEL-11569	Implements CAMEL-11425 for camel-olingo4
CAMEL-11570	Add an example for camel-google-pubsub
CAMEL-11571	Google Cloud BigQuery

Issue	Description
CAMEL-11572	camel-lumberjack component doesn't restart
CAMEL-11573	Enable MultipleConsumersSupport for Jt400Endpoint
CAMEL-11574	camel-lumberjack should support longs
CAMEL-11575	Component name mismatch: https4 or http4s
CAMEL-11576	camel-catalog is not generating camel-stream URI properly
CAMEL-11577	apt plugin should generate URL as URL and not U R L in displayName
CAMEL-11578	Add javadoc to util.backoff
CAMEL-11579	Add unit test / example for SupervisingRouteController
CAMEL-11580	Add JMX api RouteController and SupervisingRouteController
CAMEL-11581	SupervisingRouteController should have spring-boot auto configuration
CAMEL-11582	SupervisingRouteController should have better INFO logging on startup
CAMEL-11583	SupervisingRouteController should honor if a route was explicit set to autoStartup=false
CAMEL-11584	Add javadoc to spring boot auto configuration of camel.supervising.controller
CAMEL-11585	camel-spring-boot - Allow to reset route statistics via actuator
CAMEL-11586	camel-spring-boot - Have default value for endpoints.camelroutes.path
CAMEL-11587	SupervisingRouteController : add option for initial delay
CAMEL-11588	SupervisingRouteController - Routes may be started in wrong order
CAMEL-11589	MockEndpoint.expectedPropertyReceived needs improvement
CAMEL-11591	ClassNotFoundException: javax.servlet.ServletOutputStream in opentracing example client
CAMEL-11593	Global rest configuration gets overridden by default
CAMEL-11594	rest configuration in spring boot should use map instead of list
CAMEL-11596	camel-spring-boot - actuator endpoint routes - Get single route only

Issue	Description
CAMEL-11597	Adding support for setting authentication client properties for elasticsearch
CAMEL-11598	camel-spring-boot - actuator endpoints - Make it read-only by default
CAMEL-11599	XPath feature with Saxon implementation broken when ServiceMix jaxp-api is present in the endorsed classpath
CAMEL-11601	change camel-file default value for readLockLoggingLevel from WARN to DEBUG
CAMEL-11602	camel-cxf - there are failing test cases on Windows
CAMEL-11603	Netty4 consumer in clientMode=true doesn't share channel with subsequent netty4 producers using reuseChannel=true
CAMEL-11604	New method expectedPropertyValuesReceivedInAnyOrder in MockEndpoint
CAMEL-11605	Invalid accept header
CAMEL-11607	NPE in MBeanInfoAssembler when debug is enabled
CAMEL-11608	Camel-AWS: Camel-Kinesis needs Jackson Dataformat CBOR to work in OSGi
CAMEL-11609	camel-univocity-parsers: marshaller not thread safe
CAMEL-11610	UnsatisfiedDependencyException: Error creating bean with name 'openTracingEventNotifier'
CAMEL-11611	Add a knownHosts option to the camel-ssh component
CAMEL-11612	Create ASN.1 dataformat
CAMEL-11613	camel-spring-boot - Add auto configuration for FluentProducerTemplate
CAMEL-11614	rest-dsl - Allow to configure api hostname
CAMEL-11617	spring-boot - service-call tests uses hardcoded port numbers
CAMEL-11618	Add a Camel-Infinispan example using his starter
CAMEL-11620	Requiredement for date string to be longer than pattern is invalid.
CAMEL-11621	extend simple date formatter for properties
CAMEL-11623	LevelDB Java implementation wont be tried on Errors

Issue	Description
CAMEL-11624	REST DSL/component method Uppercase
CAMEL-11626	ServiceNowException is printing \"%d\" (not replacing value)
CAMEL-11627	Camel-Undertow doesn't work in OSGi
CAMEL-11628	MQTT Connection loop
CAMEL-11629	Cleanup SalesforceComponentVerifierTest
CAMEL-11630	JPAMessageIdRepository Not Releasing Connections
CAMEL-11631	Camel-Paho Missiong reconnect logic
CAMEL-11632	QuartzScheduledPollConsumerScheduler causes trigger misfires on each application start
CAMEL-11634	clean up dbcp 1 dependencies and move it (where possible) to dbcp 2
CAMEL-11635	wrong groupId in camel examples readme.md and features.xml
CAMEL-11636	property placeholder is not replaced in REST DSL in blueprint context
CAMEL-11637	Unable to assign null value to a Salesforce object field
CAMEL-11638	Upgrade to Apache SSHD 1.6.x
CAMEL-11639	camel-jms - Add support for changing JMS message selector on consumer at runtime via jmx
CAMEL-11640	SupervisingRouteController : Add a SPI to filter routes to supervise
CAMEL-11641	SupervisingRouteController : backOff should be renamed defaultBackoff
CAMEL-11642	Broker Credentials should be set from endpoint
CAMEL-11643	Extensions: registerExtension method has to avoid final in his declaration to work in CDI
CAMEL-11644	Create a Camel-gRPC example
CAMEL-11645	Add possibility to filter routes which will report spans
CAMEL-11648	camel-mongodb-gridfs - Created document cannot be read by the new MongoDB GridFS API

Issue	Description
CAMEL-11649	Cookie Handling only works for one cookie
CAMEL-1165	can we add a front page for the manual specifying Camel User Guide, Version XX?
CAMEL-11650	Use Hibernate Validator 6.x where possible
CAMEL-11652	Upgrade dozer to 6.1
CAMEL-11653	Camel-Nagios: Switch to jsendnsca ported library
CAMEL-11654	Add missing CXF dependencies to parent POM
CAMEL-11655	Camel-Nagios: Deprecate EncryptionMethod and use Encryption Enum
CAMEL-11656	Support default directory sorter for FileConsumer
CAMEL-11657	Camel-spring-security: The Karaf feature need spring-security-config to be installed
CAMEL-11659	Create a ClusteredRouteController
CAMEL-11663	Create Karaf features for IEC 60870
CAMEL-11664	Split proceeds even if onPrepare throws Exception
CAMEL-11665	Define a saga DSL and implementation for long running actions
CAMEL-11666	Camel Hazelcast Queue Cosumer implementation
CAMEL-11667	Support Metadata component extension
CAMEL-11668	CompositeApiClient class in the camel-salesforces component cannot close a null InputStream
CAMEL-11671	camel-ahc - No way to disable url encoding
CAMEL-11672	Input stream infinitive loop
CAMEL-11674	Couchbase client is never shut down
CAMEL-11678	camel-dropbox - Option clientIdentifier should not be mandatory
CAMEL-11679	camel-dropbox - Documentation should warn about remotePath being not set

Issue	Description
CAMEL-11680	Camel-dropbox should support Put not only from localPath
CAMEL-11681	camel-cxf - getting TypeConversionException when schema-validation-enabled=true for unwrapped response
CAMEL-11682	camel-kafka - Support configuration parameter sasl.jaas.config
CAMEL-11685	Camel-Hazelcast: Add removeAll and removelf to queue component
CAMEL-11688	ensure transport endpoint configuration will be take into account when create JettyRestHttpBinding from REST DSL
CAMEL-11690	Done() called two times in RoutingSlip processor
CAMEL-11691	Should resubscribe when reconnect MQTT
CAMEL-11692	Set ClassLoader property on HBase configuration
CAMEL-11694	Camel-Hazelcast: Add more operation to queue
CAMEL-11695	Add security and advanced properties to the camel-grpc component
CAMEL-11696	Add security and advanced properties to the camel-thrift component
CAMEL-11697	S3 Consumer: If maxMessagesPerPoll is greater than 50 consumer fails to poll objects from bucket
CAMEL-11698	S3 Consumer does not close S3 Object Input Streams and this causes HTTP connection leaks
CAMEL-11701	Camel-AWS S3: Use AmazonS3ClientBuilder instead of different constructors
CAMEL-11703	Camel-AWS: Use builders instead of different constructors
CAMEL-11704	Camel-RabbitMQ: Allow passive queue declaration
CAMEL-11705	Camel-Caffeine: ExpireAfterAccess set two times instead of ExpireAfterWrite
CAMEL-11706	Remove duplicate type converter methods from HBaseModelConverter
CAMEL-11709	Camel-Milo component cannot write to newer server versions
CAMEL-11710	trim for fixlength only trim one direction

Issue	Description
CAMEL-11711	Camel-example-spring-cloud-servicecall doesn't work out of the box
CAMEL-11712	Camel-Caffeine: Add support for Removal Listener
CAMEL-11713	Camel-AWS S3: Support Client side Symmetric/Asymmetric Encryption
CAMEL-11714	Add a Kubernetes Camel-gRPC spring-boot example
CAMEL-11715	Camel Spring : unable to mix xml and java routes
CAMEL-11716	error in handling return parameters in db functions
CAMEL-11718	Setting camel.dataformat.json-jackson.object-mapper throws exception
CAMEL-11719	add a string to ChildReference converter for camel-google-drive
CAMEL-11720	GoogleDriveProducer should be able to honor the http.proxyPort and http.proxyHost properties from the CamelContext
CAMEL-11721	Camel Kafka component JSON metadata is invalid
CAMEL-11723	ManagedCamelContext.dumpRestsAsXml can fail if default charset is not utf-8
CAMEL-11724	Camel-Hdfs2: No need for initialDelay and delay as configuration properties since they are already parameters of ScheduledPollConsumer
CAMEL-11725	Atmosphere framework has changed initialisation API
CAMEL-11726	Elsql producer inconsistent behavior compare to sql component producer
CAMEL-11728	Camel-AWS S3: Avoid warn log message about content length
CAMEL-11729	camel-connector-maven-plugin : generated spring boot starters should support customizers
CAMEL-11730	camel-connector-maven-plugin : it should be possible to configure connector only properties
CAMEL-11732	Add or update READMEs to itests
CAMEL-11733	camel-google-bigquery : Incorrectly set partition name
CAMEL-11735	Camel-Chunk Karaf feature doesn't work
CAMEL-11736	Camel-AWS: Use regional client instead of define region for single operation

Issue	Description
CAMEL-11737	Remove deprecated code from camel-aws tests
CAMEL-11738	camel-jsch - Allow to load key file from classpath
CAMEL-11739	camel-jms - Allow to configure a list of header names to preserve despite being invalid JMS spec type
CAMEL-11742	File consumer - Delete orphan lock files on startup may not match a lock file when using include/antInclude filtering
CAMEL-11743	camel-ldap - Make it possible to use ENV when configuring DirContext
CAMEL-11744	Allow update of OwnerId field
CAMEL-11746	Deprecate Camel-Hessian
CAMEL-11747	Change SupervisingRouteControllerRestartTest to not use Jetty in test
CAMEL-11748	Camel-Undertow: transferException option doesn't work
CAMEL-11749	NoTypeConversionAvailableException in wiretap
CAMEL-11750	Camel route with multicast (parallel) generate huge CPU load
CAMEL-11751	Dropbox Component - Update to APIv2
CAMEL-11752	camel-spring-boot : improve handling classic spring xml with spring-boot
CAMEL-11754	Apache Camel FTP getting Cannot retrieve file: RemoteFile error
CAMEL-11755	toD should ignore when dynamic uri is empty
CAMEL-11756	camel-spring-boot2 - Create experimental spring boot 2 component
CAMEL-11757	Upgrade CometD library
CAMEL-11759	camel-itest-karaf - CamelNagiosTest fails
CAMEL-11760	camel-itest-karaf - CamelServicenowTest fails
CAMEL-11761	Camel-Caffeine: Add support for StatsCounter in the component
CAMEL-11762	Add Karaf Feature for ASN.1 DataFormat

Issue	Description
CAMEL-11764	connector maven plugin : generated connectors should have a schema that does not clash wit components
CAMEL-11765	camel-undertow - Consumer adds duplicate headers
CAMEL-11766	camel-kubernetes adoc file missing
CAMEL-11768	camel-itest-karaf - CamelDockerTest fails
CAMEL-11769	camel-hazelcast-starter : hazelcast customizer have been deleted
CAMEL-11770	spring-boot examples - Should not import camel-parent
CAMEL-11771	Remove commons-logging import
CAMEL-11772	Sjms with Artemis causes NullPointerException due to a ClassCastException
CAMEL-11776	Rename the twitter-search-connector
CAMEL-11777	Transactional hazelcast:seda component uses not transaction aware queue
CAMEL-11778	New camel-ldif component
CAMEL-11781	Support BoxUser.moveFolderToUser in camel-box
CAMEL-11782	Test failure in CxfEndpointBeansTest after update to CXF 3.2.0: Unresolved ref/idref to component:
CAMEL-11785	CompositeApiClient cannot handle null ResponseStream
CAMEL-11786	Component docs - Generated docs should be in proper ascii doc format
CAMEL-11788	Chunk may not find templates in modular class loading environments
CAMEL-11790	camel-headersmap : create karaf feature
CAMEL-11791	RabbitMQ Producer/Consumer does not recover if exchange/queue is deleted manually
CAMEL-11792	New ftp connection for each file transfer with tempFileName option in URI
CAMEL-11793	Camel-box component occasionally hangs
CAMEL-11794	Remove commons-codec and commons-land deps from the Consul component

Issue	Description
CAMEL-11796	Add headerName option to jsonpath expression
CAMEL-11797	CamelMessageHistoryOutputFormat global option ignored for message history
CAMEL-11798	Connector API assumes flat classpath
CAMEL-11800	cluster service : there should be an option to leave a cluster view
CAMEL-11801	cluster service : use reference count to join/leave a cluster
CAMEL-11804	Add tests that check DESTINATION_OVERRIDE_URL
CAMEL-11805	Upgrade to Apache Ignite 2.x
CAMEL-11806	cluster service : add JMX support
CAMEL-11808	log4j2 2.9 upgrade causes errors in camel-salesforce and others
CAMEL-11811	Camel FTP fails to create intermediate directory
CAMEL-11812	spring-boot-starter - Unit test fail in netty
CAMEL-11814	camel-spring-boot - Recent change in startup behaviour can cause camel-test-spring problems
CAMEL-11815	cluster-service : camel-zookeeper spring boot support
CAMEL-11816	cluster-service : camel-consul spring boot support
CAMEL-11817	cluster-service : camel-atomix spring boot support should have better bean names
CAMEL-11819	camel-velocity - Upgrade to 2.x
CAMEL-11820	Upgrade optaplanner
CAMEL-11821	camel-xstream - tests should initialize xstream
CAMEL-11822	Upgrade jaxb-core
CAMEL-11824	[example] cxf-proxy, loan-broker-cxf - port 1101/1102 is unexpectedly used
CAMEL-11825	[example] etl - unable to resolve dependency on karaf
CAMEL-11827	[example] spring-boot-servicecall - service1 returns 404 not found

Issue	Description
CAMEL-11828	[example] camel context doesn't start on some examples
CAMEL-11829	[example] spring-boot-health-checks - 'application' keep emitting ERRORS
CAMEL-11832	camel-aws - Add support for Lambda
CAMEL-11835	cluster service : make a JGroups based cluster service
CAMEL-11836	Upgrade to Jetty 9.4.x
CAMEL-11837	cluster-service : camel-kubernetes spring boot support
CAMEL-11838	camel-websocket - Static resource returns empty body
CAMEL-11839	camel-itest-karaf - CamelBoxTest fails
CAMEL-11840	camel-itest-karaf - CamelLinkedinTest fails
CAMEL-11841	cluster service : make a simple FileLock based service
CAMEL-11842	ClassNotFoundException when configuring camel-docker SSL options
CAMEL-11843	Unable to configure some URI options on DockerEndpoint
CAMEL-11844	camel-azure - Should work with Camel file component OOTB
CAMEL-11845	Migrate easymock and powermock to mockito
CAMEL-11847	cluster-service : support multiple cluster services
CAMEL-11848	Using MongoDB Tailable Cursor Consumer on non-capped collection results in NullPointerException (instead of proper error message)
CAMEL-11849	camel-crypto-cms : create karaf feature
CAMEL-11850	camel-hdfs2 - test fails on jdk9
CAMEL-11851	camel-kura : create karaf feature
CAMEL-11852	camel-milo : create karaf feature
CAMEL-11853	camel-reactor : create karaf feature
CAMEL-11854	camel-pubnub : create karaf feature

Issue	Description
CAMEL-11855	camel-opentracing : create karaf feature
CAMEL-11856	camel-olingo4 : create karaf feature
CAMEL-11857	camel-zendesk : create karaf feature
CAMEL-11859	Deprecate camel-spark-rest as it does not play well in OSGi
CAMEL-11860	camel-olingo4 - Upgrade to olingo 4.4
CAMEL-11862	Convert to requested type values retrieved from the repository
CAMEL-11863	Add camel catalog JARs to the big readme file with overview
CAMEL-11866	Simple Expression Language bean doesn't throw exception when bean not found
CAMEL-11867	camel-bom needs <distributionManagement/>
CAMEL-11868	Migrate camel-elasticsearch5 java transport client to the new high level rest client
CAMEL-11869	Adopt mockito-core 2.11.0
CAMEL-11871	Stomp component should not modify the destination name
CAMEL-11872	Handle MIME folded and MIME encoded email headers
CAMEL-11873	Exclude validation-api from Salesforce component
CAMEL-11874	spring-boot: shrink camel-spring-boot dependencies
CAMEL-11875	Add support for BoxGroup.updateInfo in camel-box
CAMEL-11876	OsgiCamelContextPublisher might leak Service-References
CAMEL-11878	BlueprintCamelContext should use Filter for serviceevents
CAMEL-11880	Use full version of BoxGroup.createGroup in camel-box
CAMEL-11881	Queue/Exchange parameters need to be numeric when declaring in RabbitMQ
CAMEL-11882	ServiceDefinition.metadata not passed to RibbonServiceLoadBalancer
CAMEL-11883	New arguments to createGroup unintentionally made mandatory
CAMEL-11884	NPE when stopping Salesforce component that failed to start

Issue	Description
CAMEL-11885	Add support for creating folder by path in camel-box
CAMEL-11889	Kie assumes that the TCCL can load its services
CAMEL-11890	camel-connector - Use JSon parser to parse the camel-connector-schema.json
CAMEL-11891	XML2JSON Data Format and empty requests
CAMEL-11892	SpringWebserviceConsumer and class cast exception
CAMEL-11894	camel-karaf-commands deployment failed on karaf 4.0
CAMEL-11895	camel-hystrix - Expose state of circuit breaker on JMX / processor
CAMEL-11896	camel-spring-boot - set CamelLogDebugBodyMaxChars when 0 or negative
CAMEL-11898	camel-spring-ws - Attachments are lost
CAMEL-11899	cluster-service : fire event on listener registration
CAMEL-11900	cluster-service : only the first event listener is notified about cluster events
CAMEL-11901	cluster-service : ClusterView's getMaster() should be renamed to getLeader() for naming consistency
CAMEL-11902	cluster-service : FileLockClusterView should not always return local member as leader
CAMEL-11903	camel-checkstyle.xml - Should say Camel instead of ActiveMQ
CAMEL-11906	Missing compile scope dependencies in camel-pgevent
CAMEL-11907	No test coverage for camel-pgevent
CAMEL-11908	camel-swagger-java to support OpenAPI Spec 3 and example values
CAMEL-11909	camel-catalog-maven - Cannot load out of the box components
CAMEL-11910	camel-maven-plugin - validate should not include route ids as consumer urls
CAMEL-11912	Camel Dropbox validator regex is too restrictive and fails for common paths
CAMEL-11915	Fix incorrect elasticsearch5-rest documentation and OperationTypes

Issue	Description
CAMEL-11916	camel-jgroups-starter : JGroupsLockClusterServiceConfiguration lacks getter/setters
CAMEL-11917	camel-jgroups-starter : JGroupsLockClusterService auto configuration lacks enable flag
CAMEL-11918	Wrong parent version in connectors/examples/pom.xml
CAMEL-11919	Salesforce REST API request headers not included in update,upsert,create and query operations
CAMEL-11920	camel-hdfs2 not working in osgi using documented HdfsOsgiHelper
CAMEL-11921	Camel-Elasticsearch5-rest: Create Karaf feature
CAMEL-11922	Persistent tail tracking picks random tail tracker from mongoDB collection
CAMEL-11923	Camel-Hessian: Add Whitelisting feature
CAMEL-11925	Atmos component fails to load atmos.properties in a modular class loading environment
CAMEL-11926	close JMXConnector on shutdown of JMXConsumer in camel-jmx
CAMEL-11927	camel-spring-ws - Support for header transformation
CAMEL-11929	camel-castor - Add more configuration
CAMEL-1193	Interceptors for multicast
CAMEL-11930	CI Jenkins - use freestyle jobs to free up memory
CAMEL-11931	camel-jms - Add better support for Stream JMS message type
CAMEL-11932	For fixed length records crlf field is not honored during un-marshaling
CAMEL-11933	camel-kafka - Add better support for manual commits
CAMEL-11935	Propagate Kafka record headers to camel headers
CAMEL-11936	Fix syntax for Atomix component
CAMEL-11937	Fix syntax for iec60870 component
CAMEL-11942	camel-spring build failure on windows

Issue	Description
CAMEL-11943	camel-kafka - use regular expression to subscribe to topics
CAMEL-11944	Ensure HBaseConfiguration ClassLoader is set correctly
CAMEL-11945	camel-spring-boot - CamelContextConfiguration afterApplicationStart should trigger later
CAMEL-11946	Invalid artifactId in docs for camel-json-validator
CAMEL-11948	NPE on DefaultMessage setBody if deprecated constructor was used
CAMEL-11949	Camel-Elasticsearch5-Rest: Add a Ping Operation to Producer
CAMEL-11950	Inconsistent jar versions with apache curator
CAMEL-11951	Uri matching does not match request type
CAMEL-11952	XSLT options not set when resource URI is http
CAMEL-11953	maven connector plugin: connector only properties are ignored in spring boot code generation
CAMEL-11954	Camel JMX name for cluster service
CAMEL-11955	Using @AdviceWith and testing camel-spring-boot startup CamelContext eager
CAMEL-11957	rest-dsl - Allow to turn off vendor extension in generated api docs
CAMEL-11958	rest-dsl - Disable vendor extension by default
CAMEL-11959	New component YQL
CAMEL-11960	camel-swagger-java - Generated swagger doc should use primitive types
CAMEL-11961	ClassCastException in HttpMessage
CAMEL-11962	AdviceWith weaveAddFirst using onCompletion issue
CAMEL-11963	camel-spring-boot - Actuator endpoints for MVC should only trigger if web application
CAMEL-11964	Upgrade chemistry-opencmis to 1.1.0
CAMEL-11965	camel BOM (and camel-hl7) lack the optional dependency to hapi-structures-v251

Issue	Description
CAMEL-11967	Restlet binding should not create JAXB marshaller when binding mode is set to json
CAMEL-11968	Support literal values in endpoint parameters
CAMEL-11969	Camel-AWS: add a deleteObject operation to the S3 Producer
CAMEL-11970	JacksonDataFormat does not pickup custom ObjectMapper from Registry
CAMEL-11971	sftp - Add support for useList option to allow consumer to download single file without list operation
CAMEL-11972	Upgrade to Kafka 1.0.0
CAMEL-11975	camel-connector - Allow to set before/after consumer/producer processors per endpoint
CAMEL-11976	Align pdfbox versions to 2.0.6
CAMEL-11977	MongoDB Tailable cursor consumer fails to stop on shutdown
CAMEL-11978	camel-swagger-java - Include 200 status response as default in generated api-doc
CAMEL-11979	camel-undertow - swagger api should match on uri prefix
CAMEL-11980	PushTopic client doesn't clear refresh token after a long disconnected period
CAMEL-11981	Camel-AWS: Add a component verifier for AWS S3 and eventually use it for all the other components in Camel-AWS
CAMEL-11982	camel-jackson - Allow to configure timezone
CAMEL-11983	XsltAggregationStrategy thread safety during initialization
CAMEL-11984	AggregationStrategy - Let EIPs support lifecycle of custom aggregation strategy to allow custom start/stop logic
CAMEL-11985	Add ExtendedStartupListener
CAMEL-11986	HTTP4 Producer for TLS schemes transforms endpoint URI to http4s
CAMEL-11987	Camel-SalesForce DTO Issue while using camel-salesforce-maven
CAMEL-11988	camel-jetty - Problem with latest Spring Boot 1.5.8
CAMEL-11989	camel-paho - Allow to specify topic via header

Issue	Description
CAMEL-11991	camel-swagger-java - Allow to specify type as date format
CAMEL-11992	connectors : alias scheme is not used by the connector component
CAMEL-11993	Upgrade to CXF 3.2.1
CAMEL-11995	Support Composite API
CAMEL-11996	RabbitConsumer could hang when RabbitMQ connection is lost and autoAck=false.
CAMEL-11997	camel-archetype-component - Should generate DefaultComponent
CAMEL-11999	Cannot create queue/message for Azure
CAMEL-12001	Cannot create a component based on the SqlComponent
CAMEL-12004	Add LOG.isDebugEnabled() guard for LOG.debug()
CAMEL-12005	Add websocket support to camel-undertow
CAMEL-12007	camel-catalog-maven - Add stop method to cleanup connections
CAMEL-12008	Add type converter from byte array to java.io.Reader
CAMEL-12009	Bindy - Missing Headers from OneToMany Field
CAMEL-12010	Mock endpoint - Should reset StreamCache when evaluating expectations
CAMEL-12011	Abstract Restlet server creation
CAMEL-12012	Camel-AWS: Add component verifiers like S3 for all the AWS components
CAMEL-12014	RabbitMQ redelivered flag tag.
CAMEL-12015	dead link in webpage http://camel.apache.org/log.html
CAMEL-12016	Invalid Pool Exhausted error on camel-netty4
CAMEL-12017	Google PubSub and BigQuery components miss dependency declarations
CAMEL-12018	camel-shiro - Upgrade to 1.4.0
CAMEL-12019	camel-kafka - Add option max.poll.interval.ms

Issue	Description
CAMEL-1202	MinaExchange should override newInstance()
CAMEL-12020	Add dedicated polling consumer for file/ftp components
CAMEL-12021	ProducerTemplate.requestBody with responseType throw a InvalidPayloadException instead of original exception (wrapped in a CamelExecutionException)
CAMEL-12022	direct component - Let the producer able to block and wait for consumers to be started
CAMEL-12024	Camel-CassandraQL: Add ErrorAwarePolicy to the Load Balancing Policies set
CAMEL-12025	Possible Intermittent failures in ReactorStreamsServiceTest
CAMEL-12026	ensure camel bundle with spring configuration works in OSGi with aries-blueprint-spring bridge
CAMEL-12027	camel-asn1 - removal of import org.openmuc.jasn1.ber.BerByteArrayOutputStream from encode method's param and upgrade jasn1
CAMEL-12028	Flink requires internals to be visible by TCCL
CAMEL-12029	CoAP component should handle method not allowed
CAMEL-12030	Enhance CoAP producer to set a response code header
CAMEL-12031	KafkaConsumer stops consuming messages when exception occurs during offset commit
CAMEL-12032	camel-json-validator - Switch to a different validator
CAMEL-12034	camel-elasticsearch5 - Search Operation: If Map or String is used in Message Body, \"size\" and \"from\" parameters are always ignored
CAMEL-12036	camel-olingo4 support json strings as payload
CAMEL-12037	File idempotent repository is always initialized with default 1000 cache size
CAMEL-12038	rest-dsl - Allow to turn off vendor extension... NPE
CAMEL-12039	camel-itest - Errors in some test about xslt 1.0 mode
CAMEL-12040	camel-example-cdi-rest-servlet - Test error due jetty JAR problem

Issue	Description
CAMEL-12043	Refactor Salesforce Maven plugin
CAMEL-12044	[quartz2] Duplicate initializaiton of Quartz component
CAMEL-12046	camel-catalog - Add to plugin custom JSonSchemaResolver
CAMEL-12047	Allow to resolve JSonSchemaResolver from registry
CAMEL-12049	Camel-AWS: Add update function operation to AWS lambda component
CAMEL-12050	Camel Rest DSL returns 404 instead of 405, when http method is not supported
CAMEL-12051	Camel-Jsch: Allow to pass the privateKey as byte[] and not only via file
CAMEL-12053	Camel-AWS: add a component for Amazon MQ service
CAMEL-12054	Camel-AWS Xray: Create the related Karaf feature
CAMEL-12055	Allow Jt400PgmProducer to call IBM i service programs
CAMEL-12056	Add NotifyBuilder.destroy() method
CAMEL-12057	camel-olingo2 - Missing encoding for query params
CAMEL-12058	Wrong order in file idempotent store.
CAMEL-12059	Remove redundant null checks from instanceof checks
CAMEL-12061	SFTP exception-handling more problemtatic than documented
CAMEL-12062	Jaxb component does not communicate charset when explicitly set
CAMEL-12064	Create a camel-example-olingo4-blueprint example
CAMEL-12065	[Camel-consul] firstIndex cannot be set if it is out of Long range
CAMEL-12066	[XChange] Add initial support for crypto currencies
CAMEL-12068	Camel Undertow support for http2
CAMEL-12069	ActiveMQ/JMS component: transferExchange option does not transfer exchange properties anymore
CAMEL-12071	aws-sqs queue creation does not support FIFO queues

Issue	Description
CAMEL-12074	Let okStatusCodeRange support multiple ranges
CAMEL-12075	Piling up of threads in iterating splitter in parallel processing
CAMEL-12076	Camel Kafka producer: Specified topic is ignored ("No topic key set" error) when KafkaConfiguration is used
CAMEL-12079	Bean language: support bean::function notation
CAMEL-12080	Allow creating csv content without last eol
CAMEL-12082	Camel route commands should set the TCCL when working with local camel context
CAMEL-12083	Some camel karaf features errors
CAMEL-12084	Test encoding for query params in camel-olingo4
CAMEL-12085	Don't mandate header case for custom Salesforce HTTP headers
CAMEL-12086	Service call definition - Simple language expression in uri is not being evaluated
CAMEL-12087	camel-core: WARN No CamelContext defined yet so cannot inject into bean
CAMEL-12088	camel-zipkin - Karaf feature dont work with new upgrade
CAMEL-12089	Camel-AWS: Kinesis consumer starts consuming data from the beginning even though the shard is in Closed state
CAMEL-12090	camel-kafka - Better error if brokers not configured
CAMEL-12094	fileExist=Move and tempFileName does not work together.
CAMEL-12095	Camel-Xstream doesn't work in Karaf
CAMEL-12096	RestConfiguration hostNameResolver property naming mismatch
CAMEL-12097	Combination of path param and query param does not work
CAMEL-12098	URISyntaxException in OpenTracingTracer for endpoints with path parameters
CAMEL-12099	Update camel-thrift to libthrift 0.11.0
CAMEL-12103	Camel unable to shutdown gracefully because Netty4 consumer keep receiving and adding inflight exchanges

Issue	Description
CAMEL-12104	Unintuitive default cxf timeout behavior
CAMEL-12105	Add Additional TypeConverters to camel-hl7
CAMEL-12106	Update camel-mlp with enhancements from fork
CAMEL-12108	StreamCache file is removed before wireTap ends in a splitter wireTap combination route
CAMEL-12110	KafkaConsumer swallows exceptions from org.apache.kafka.clients.consumer.KafkaConsumer constructor
CAMEL-12111	Reconnect doesn't work if camel is started with rabbit broker initially inaccessible and automaticRecoveryEnabled=true or not set
CAMEL-12112	Camel processing single file twice in 'file' endpoint
CAMEL-12113	Camel healthcheck spring-boot actuators don't honor \"endpoints.*.enabled\" property
CAMEL-12115	Camel-Consul: Upgrade to 1.0.0 consul client
CAMEL-12118	DynamoDB: Execute query using secondary indexes
CAMEL-12120	ErrorHandler is closed after failure in RoutingSlip
CAMEL-12122	S3: Add createDownloadLink functionality
CAMEL-12123	camel-salesforce - Http proxy support uses two inconsistent methods and is broken
CAMEL-12124	Allow to configure cacheSize on dynamic router and routing slip EIP annotations
CAMEL-12125	Add keepOpen to the ThrottlingExceptionRoutePolicy circuit breaker
CAMEL-12126	camel-ftp - Add support for restarting downloads
CAMEL-12127	camel-ftp - Add option to turn on logging of transfer activity
CAMEL-12129	Broken integration test RabbitMQSuspendResumeIntTest
CAMEL-12130	Upgrade braintree SDK to v2.74.0
CAMEL-12131	CacheProducer should not put services in Camel context, that are not singletons and are not ServicePoolAware

Issue	Description
CAMEL-12134	spring-boot: two camel contexts created when using xml configuration
CAMEL-12135	Camel-AWS S3: Add the ability to specify credentials and region at component level
CAMEL-12136	camel-saxon - dump namespaces may cause a ClassCastException
CAMEL-12137	Add Support for Braintree Auth
CAMEL-12139	Camel-AWS SQS: Add the ability to specify credentials and region at component level
CAMEL-12142	Tests failed because of incorrect mongodb host
CAMEL-12143	Camel-AWS SES: Add the ability to specify credentials and region at component level
CAMEL-12144	Camel-AWS SNS: Add the ability to specify credentials and region at component level
CAMEL-12145	Camel-AWS SWF: Add the ability to specify credentials and region at component level
CAMEL-12146	Camel-AWS Lambda: Add the ability to specify credentials and region at component level
CAMEL-12147	Camel-AWS MQ: Add the ability to specify credentials and region at component level
CAMEL-12148	File idempotent store - The 1st-level LRUCache should only be a means of quick lookup
CAMEL-12149	Failed to invoke camel cxfrs client due to Content-Type header couldn't be retrieved and passed
CAMEL-12150	Camel-AWS EC2: Add the ability to specify credentials and region at component level
CAMEL-12151	Camel-AWS CW: Add the ability to specify credentials and region at component level
CAMEL-12152	Camel-AWS DDB: Add the ability to specify credentials and region at component level
CAMEL-12153	Upgrade to OpenTracing Java API 0.31

Issue	Description
CAMEL-12154	Camel does not set Saxon parameters in a XQuery 3.0 compatible way
CAMEL-12156	Camel Karaf route commands - Should have camel context as required
CAMEL-12157	Camel-Websocket Karaf feature installs bundles with different version of Jetty (9.4 and 9.3)
CAMEL-12158	Camel-AWS DdbStream: Use a configuration for the options like the other AWS components
CAMEL-12159	Camel-AWS Kinesis: Use a configuration for the options like the other AWS components
CAMEL-12160	Camel-AWS Kinesis Firehose: Use a configuration for the options like the other AWS components
CAMEL-12161	Camel-AWS DdbStream: Expose options to avoid a required client in the registry
CAMEL-12164	Camel-AWS Kinesis: Expose options to avoid a required client in the registry
CAMEL-12165	camel-jaxb - Allow to configure severity level on schema validation
CAMEL-12171	Camel-AWS DDB Stream: Add the ability to specify credentials and region at component level
CAMEL-12172	Camel-AWS Kinesis: Add the ability to specify credentials and region at component level
CAMEL-12173	Camel-AWS Kinesis Firehose: Add the ability to specify credentials and region at component level
CAMEL-12175	Camel-AWS Kinesis Firehose: Expose options to avoid a required client in the registry
CAMEL-12176	Camel-Dropbox /search and /get are not working
CAMEL-12177	Dns Routing Policy to start/stop routes based on dns changes.
CAMEL-12178	Add getMessage and setMessage methods to the Exchange interface
CAMEL-12180	camel-braintree - Downgrade to version without org.json
CAMEL-12181	XML Signature: '#' missing in ObjectReference attribute of XADES element DataObjectFormat
CAMEL-12182	Connection should be reset in the event of an acknowledgement timeout

Issue	Description
CAMEL-12183	Add support for Wordpress REST API
CAMEL-12184	EventNotifierSupport does not receive ExchangeSentEvents anymore
CAMEL-12185	mongodb - Add option outputType=DBCursor for aggregate operation
CAMEL-12186	Camel-AWS S3: Support KMS in S3 Producer related operations
CAMEL-12187	Camel-AWS DDBStream: Add a ComponentVerifier
CAMEL-12188	Camel-AWS Kinesis: Add a ComponentVerifier
CAMEL-12189	Camel-AWS Kinesis Firehose: Add a ComponentVerifier
CAMEL-12190	Camel-AWS S3: Add a parameter to specify chunkedEncodingDisabled option
CAMEL-12192	BindyCsvDataFormat does not support skip fields
CAMEL-12193	ThrowException DSL should support no-arg constructors
CAMEL-12194	Camel-AWS MQ: Add a reboot broker operation
CAMEL-12196	Mock endpoint - message().body().matches().simple - Does not work
CAMEL-12197	Automatic discovery of LogListener and UuidGenerator
CAMEL-12198	Make camel-pgevent work in modular class loading environments
CAMEL-12200	camel-mlp - Fix IndexOutOfBoundsException exception when generating acknowledgment
CAMEL-12204	camel-lra - Be JAX-RS 2.0 compatible
CAMEL-12205	Camel-AWS S3: Add parameters to specify S3ClientOptions
CAMEL-12206	createDoRemove in MongoDBProducer should expect org.bson.conversions.Bson instead of org.bson.Document
CAMEL-12208	CAMEL-AWS Mq: Add UpdateBroker operation
CAMEL-12209	StringHelperTest.testHumanReadableBytes() is not repeatable
CAMEL-12210	End of HL7 Message not always detected correctly
CAMEL-12212	sql-stored: support INOUT parameters

Issue	Description
CAMEL-12215	Add lenient-bind option for MLLP Consumers
CAMEL-12218	Make bridgeErrorHandler optional
CAMEL-12221	Let's create a camel-fhir component
CAMEL-12222	ResrSwaggerServlet removes last part of context root
CAMEL-12223	camel-json-validator: Documentation and comments in code incorrectly mentions everit
CAMEL-12224	Camel-Elasticsearch5-rest: deprecate camel-elasticsearch5 in favor of this component, rename it and upgrade it to support ES 6.x
CAMEL-12226	Change HAPI version from 2.2 to 2.3
CAMEL-12227	camel-ahc - Upgrade to 2.3.0 version
CAMEL-12228	Print command fails in case of multiple copies
CAMEL-12230	Camel-Ribbon: add a Karaf feature
CAMEL-12231	Camel-Amqp: Use Netty 4.1.x since Qpid-jms-client now use that version
CAMEL-12233	spring-boot: add threadNamePattern property
CAMEL-12234	Camel-AWS: Since we are using builders, we need to remove the AWS endpoint options on the components that are using them
CAMEL-12235	Add Timestamp to Message header from ConsumerRecord in the camel-kafka component
CAMEL-12236	Camel-AWS SWF: Region is not set during client creation
CAMEL-12237	Camel-AWS: Create a KMS component
CAMEL-12239	Camel-Kubernetes: Renamed Openshift component with the openshift prefix
CAMEL-12240	Create a real tests with Apache Qpid Broker-J
CAMEL-12242	camel-wordpres feature
CAMEL-12244	RemoteFileProducer stopped instead of being released to the pool when <code>"\interceptSendToEndpoint\"</code> is used

Issue	Description
CAMEL-12246	New AsciiDoc documentation has many broken links
CAMEL-12247	camel-undertow not compatible with ahc-version 2.3.0
CAMEL-12248	Camel-Milo: Upgrade Milo to version 0.2.0
CAMEL-12249	Camel-JMS: transferExchange - send ExchangeProperties can not be accessed before first endpoint in route
CAMEL-1225	Duplicate type converter toString(Source) in two classes in camel-core
CAMEL-12251	Do not hide (so much) blueprint.container.ComponentDefinitionException
CAMEL-12253	Add restart action to controlbus
CAMEL-12254	Add restart operation to route JMX mbean
CAMEL-12255	camel-swagger-java - Body parameter fails to output type
CAMEL-12256	AWS S3 Consumer does not return custom headers in S3 Headers
CAMEL-12258	use configured readTimeout for initial message
CAMEL-12260	Default value for String field results in null for CSV / Bindy
CAMEL-12261	Camel-AWS KMS: Add a scheduleKeyDeletion operation
CAMEL-12265	Reduce logging caused by load balancer probes
CAMEL-12266	camel-restdsl-swagger-plugin - Make it possible to chose XML generation
CAMEL-12267	Make CometD transport properties configurable
CAMEL-12268	Camel-AWS: Lets call shutdown on the clients while stopping endpoints
CAMEL-12269	Bindy - Support regex expression as separator
CAMEL-12270	camel-http4 - Make it easier to configure connection timeout
CAMEL-12272	PgEventEndpoint should handle wrapped connections
CAMEL-12273	In component doc, tables are sometimes generated without body rows
CAMEL-12275	Extend the AWS S3 integration to support the usage of IAM credentials

Issue	Description
CAMEL-12276	Stop requiring scribe transport for zipkin
CAMEL-12278	camel-jsonpath - Should allow to load jackson adapter in OSGi
CAMEL-12279	convertBodyTo w/Charset removes existing Charset from Exchange
CAMEL-12280	Camel AWS S3: Add other fields in the exchange returned from the consumer
CAMEL-12282	rest-dsl - Inlined route has route id wrongly assigned
CAMEL-12283	camel-restdsl-swagger-plugin - Allow to filter operations
CAMEL-12284	camel-beanio - Set encoding option does not work
CAMEL-12286	Milo client broken
CAMEL-12287	Allow overriding the server reported endpoint
CAMEL-12289	URISyntaxException in AbstractSpanDecorator
CAMEL-12291	Blueprint error: \"name is already instantiated as null and cannot be removed\"
CAMEL-12292	SnsProducer/SqsProducer setting MessageAttributes with empty values which causes errors
CAMEL-12293	Avoid KeyAlreadyExistsException in ManagedTypeConverterRegistry.listTypeConverters()
CAMEL-12295	Add an option to Jms Endpoints so that they format JMS date properties according to the ISO 8601 standard
CAMEL-12296	Aggregator - Add option to complete all groups on new correlation id
CAMEL-12297	Miscellaneous fixes to AsciiDoc format and layout
CAMEL-12298	camel-aws - Unit test failure
CAMEL-12299	Upgrade to jcloud 2.1.x
CAMEL-12300	camel-example - AMQP blueprint fails test
CAMEL-12301	camel-itest-spring-boot - CamelOpenTracing fails
CAMEL-12302	camel-mongodb : Support for bulk writes operation

Issue	Description
CAMEL-12303	Make building camel-spring and camel-blueprint work for XSD generation more cleanly
CAMEL-12304	camel-spring-sources - Misses some source files
CAMEL-12305	IntrospectionSupport - Reduce DEBUG logging level
CAMEL-12306	String → Enum type conversion no longer work if Jackson converter is enabled
CAMEL-12308	Upgrade to CXF 3.2.2
CAMEL-12309	SpEL expression should be able to reference beans in non-Spring application context
CAMEL-12310	Update maven-bundle-plugin
CAMEL-12311	Update Braintree SDK to 2.77.0
CAMEL-12312	camel-undertow - Add examples to doc about using websocket
CAMEL-12313	camel-maven-plugin - Add docs about run goal options
CAMEL-12314	advice with - Log route before vs after advice on startup
CAMEL-12315	camel-mlp - AutoAcknowledgement issues
CAMEL-12316	mongodb : Add allowDiskUse option to aggregate operation
CAMEL-12320	camel-restlet - Should match better on uri pattern and return 404 for invalid urls
CAMEL-12321	camel-bindy - Allow to configure unmarshal to always return a list type
CAMEL-12324	Issue:Camel rabbitmq publishes message to consumer exchange instead of publisher exchange
CAMEL-12325	lastConnectionActivityTicks is not getting updated by MllpTcpClientProducer
CAMEL-12326	Improve CamelCxfClientImpl a bit ensure it can handle camel side usecase
CAMEL-12328	Headers getting lost after calling kubernetes-services API
CAMEL-12329	camel-rabbitmq - Use another header for exchange override header in producer
CAMEL-12356	Claim Check EPI: ManagedManagementStrategy: Can not register service: ClaimCheck[*] as Service MBean

Issue	Description
CAMEL-12357	Unexpected change in JSON formatting due to CAMEL-11970
CAMEL-12364	ensure a SOAP 1.2 enabled camel-cxf consumer endpoint can handle SOAP 1.1 request correctly
CAMEL-12370	Camel-SFTP: errors in SSH routes after changes in read-lock
CAMEL-12379	Shutdown only AWS clients owned by the context
CAMEL-12407	camel-olingo4-api should explicitly depend on commons-io
CAMEL-12410	No type converter from java.lang.String to java.math.BigInteger required for firstIndex
CAMEL-12412	camel-jclouds - Fallback type converter is wrong
CAMEL-12418	camel-consul - High CPU load on events watching
CAMEL-12427	camel-netty4 - Add SPI to plugin custom correlation state for request/reply in producer
CAMEL-12435	camel-netty4 - Shared connection pool should re-create connection if its no longer valid
CAMEL-12438	camel-netty4 - Add timeout support for SPI correlation manager
CAMEL-12439	FailedToCreateRouteException should mask sensitive information in uris
CAMEL-12441	MulticastProcessor doProcessParallel blocks indefinitely if exception occurs in it.next()
CAMEL-12444	XML Validator - Improve DTD handling
CAMEL-12445	spring-boot-rest-swagger example does not compile due to missing servlet-api dependency
CAMEL-12446	Splitter - Make it easier to turn off propagate exception
CAMEL-12448	camel-consul - service health state calculated from all services with same name
CAMEL-12457	file consumer - Should not use readlock by default
CAMEL-12458	camel-twitter - Should support extended mode by default
CAMEL-12465	Don't carry soapAction forward if operationName is specified explicitly for the CxfProducer

Issue	Description
CAMEL-3142	JpaPollingConsumer - So you can more easily work with pollEnrich
CAMEL-3289	Camel fails to start if no DNS resolution for hostname is available
CAMEL-3759	After switching to slf4j, we can get rid of the 'isTraceEnabled', 'isDebugEnabled' and 'isInfoEnabled' statements
CAMEL-5252	Simple language - Improved OGNL invocation with simple expression as functions for parameters
CAMEL-5271	camel-snmp should provide a Producer for sending TRAPS/INFORMS
CAMEL-5356	CXF endpoint doesn't play nice with doTry/doCatch
CAMEL-5585	RedeliverErrorHandler - Should quicker reject running scheduled redeliver tasks if shutting down and not allowed to do redeliver
CAMEL-5690	Using bean component with beans that implement Service from Camel should have the lifecycle callbacks invoked
CAMEL-5716	Validator - schema from memory/property
CAMEL-5723	camel-jaxb: partClass and partNamespace dynamically set by header
CAMEL-6132	camel-test-karaf - To allow end users more easily do Camel and Karaf integration test
CAMEL-6163	camel-bindy - Enable add custom data type converter.
CAMEL-6256	Camel xmpp dynamic router is not sending incoming messages to openfire upon first failed groupchatroom join
CAMEL-6289	camel-example-loan-broker - The broker example should use broker.xml file to setup broker
CAMEL-6399	hazelcast - route policy for having one route being master, and others as slaves
CAMEL-6439	camel-jms - Add thread pool for handling timeout when doing request/reply and allow to configure this thread pool
CAMEL-6443	camel-quickfix - Engine that could not start (e.g. because of store creation problems) is still stored in the engines map, thus making further starts problematic
CAMEL-6616	On SMPP producer start if SMSC returns a negative bind response producer will get stuck in an infinite reconnect loop

Issue	Description
CAMEL-6707	Asynchronous Mode In camel-servlet, Servlet 3.0 AsyncContext
CAMEL-6720	SoapJaxbDataFormat not handling correctly SOAP action with request wrapper element
CAMEL-7132	QuartzComponent with custom Scheduler and multiple contexts requires JMX to be enabled
CAMEL-7174	CacheManager should only be shutdown when last endpoint is stopped
CAMEL-7443	Remote Print URI changed to UNC Name
CAMEL-7519	camel-bindy - CSV unbinding does not escape embedded quote character
CAMEL-7536	camel mail: content-transfer-encoding configurable
CAMEL-7621	camel-bindy - Two new properties to StringFormat through DataField: toUppercase and mapToASCII
CAMEL-7660	Add support for expression on tokenizeXml
CAMEL-7672	camel-stomp - Add support for reply-to header
CAMEL-7809	Quartz PollConsumerScheduler in a cluster tries to create duplicate triggers, fails
CAMEL-7831	create a java8 only demo showing how to use lambda expressions for Predicate / Expression inside the Java DSL (using Message as a typesafe parameter)
CAMEL-7832	create a java 8 demo of RX to show typesafe filtering and transforming of messages
CAMEL-7853	Implement AggregationRepository based on Infinispan data grid
CAMEL-7862	Allow empty csv files in the Camel Bindy unmarshalling process
CAMEL-7884	camel-netty4-http does not work for HTTP POST requests on routingSlip
CAMEL-7933	Camel-apns should create https connections using SSLContextParameters
CAMEL-8010	Race condition in AggregatorProcessor recovery sometimes causes duplicates (still)
CAMEL-8072	Netty Http Server should close the channel once it return an error message
CAMEL-8108	Type converters should not check for null values

Issue	Description
CAMEL-8162	camel-spring-ws removes WSHandlerResult.
CAMEL-8219	camel-smpp - use jsmpp version 2.2.x or later
CAMEL-8282	osgi test - Use correct version of ActiveMQ
CAMEL-8287	Schematron component does not work with includes in schematron
CAMEL-8351	Spring-ws consumer ignores breadcrumb http header
CAMEL-8396	Update Salesforce component to support new REST APIs in Salesforce API V33.0
CAMEL-8418	Add documentation to camel-atmos component
CAMEL-8419	Camel StreamCache does not work with CXF consumer for InOut messages
CAMEL-8598	Set default timeouts on workflows registered by the camel-aws / aws-swf component
CAMEL-8602	Java 8: ConcurrentLinkedHashMap → Caffeine
CAMEL-8637	Upgrade Jetty version to 9.x in Camel-CometD
CAMEL-8668	Refactoring of Camel-MongoDB based on Java Driver 3.x
CAMEL-8708	SOAP unmarshalling shouldn't fail for Faults that lack an optional Detail element
CAMEL-8723	Add desired message type to ProducerTemplate.sendBody methods
CAMEL-8830	Upgrade to Saxon HE 9.7
CAMEL-8854	Support setting sendServerVersion as parameter of the JettyHttpComponent
CAMEL-8958	Add push/pop to the DSL so people can easily preserve and get back a message as-is
CAMEL-9018	camel-archetype-java8
CAMEL-9040	netty4-http - LEAK: ByteBuf.release() was not called before it's garbage-collected
CAMEL-9046	Support to setup the SSLContext of CXF client from camel ssl setting
CAMEL-9047	Replace deprecated boxjava-libv2 with box-java-sdk

Issue	Description
CAMEL-9065	Exchange created needs to be aware of its FROM endpoint.
CAMEL-9067	File consumer - Allow to filter by expression and have two options one for directory and another for file name
CAMEL-9131	Camel components - Add more labels to group the options
CAMEL-9200	Context component conflates endpoints with the same local id from different CamelContexts
CAMEL-9210	Make credentials optional in AWS component. Use instance profile if not supplied.
CAMEL-9250	Configure AllowUseOriginalMessage to be disabled by default if not in use on error handler
CAMEL-9273	Enhance camel-weather component to support all the options of Api 2.5
CAMEL-9332	Support @MockEndpoint and @MockEndpointAndSkip in Spring Boot
CAMEL-9372	camel java dsl - Parameters with uris should denote that with an annotation
CAMEL-9375	camel-tarfile - TarSplitter includes one extra empty entry at the end
CAMEL-9397	remove camel-test-spring32
CAMEL-9419	camel-spring-boot - Add component options as type-safe configuration properties
CAMEL-9467	Camel-Kafka: Upgrade to kafka 0.9 and use the Java client instead of Scala
CAMEL-9476	camel-bindy doesn't pad fixed length records
CAMEL-9477	Camel test examples are not working
CAMEL-9482	Remove some deprecated options on http/http4/servlet
CAMEL-9521	camel-spring - Move osgi/spring-dm to camel-spring-dm
CAMEL-9541	Component docs - Maintain docs as part of the source code
CAMEL-9549	camel-schematron - More fine grained error messages when compiling the schema
CAMEL-9552	Cannot consume and produce to beanstalk component in the same route
CAMEL-9585	camel-jms: Support dynamic username/password settings

Issue	Description
CAMEL-9587	camel-restlet - Make it easy to turn on gson or jackson
CAMEL-9594	Use swagger.json instead of api-doc in examples
CAMEL-9597	camel-nagios - Mockito for testing
CAMEL-9600	camel-fop - Upgrade fop to 2.1
CAMEL-9602	ProducerTemplateBuilder
CAMEL-9606	SJMS Consumer-Producer in transaciton
CAMEL-9608	camel-jpa consumer fails to poll after transaction timeout
CAMEL-9631	The OsgiServiceRegistry class caches service references
CAMEL-9633	quartz2 - Add support for specifying custom calendar
CAMEL-9638	JSSE Security - Add support for new Java 8 stuff like SNIHostName
CAMEL-9646	Upgrade Xalan bundle to 2.7.2_3
CAMEL-9650	<contextScan/> equivalent in Spring JavaConfig
CAMEL-9656	Using SpringBoot HealthEndpoint bean throws AmbiguousMethodCallException
CAMEL-9678	camel-undertow - Keep restarting server when add/remove routes
CAMEL-9683	native client side kubernetes based load balancer
CAMEL-9690	bean parameter binding should check parameter types when using simple expressions
CAMEL-9728	change Reader to InputStream if the camel-cxf endpoint use RAW MESSAGE DataFormat
CAMEL-9729	Camel catalog - Allow to query older versions
CAMEL-9730	NPE in camel-jaxb when using in OSGi running from CamelTestBlueprint
CAMEL-9731	Camel-josql: the sql script language does not work
CAMEL-9732	camel-swagger-java - Issue in appendModels in the reader
CAMEL-9733	enable dynamic job name in component spring-batch

Issue	Description
CAMEL-9735	camel-tarfile throws OutOfMemoryError when splitting large files
CAMEL-9736	SolrComponent gets the wrong Content Type
CAMEL-9737	Create camel component for ServiceNow
CAMEL-9738	Thread leak for camel-mina2 consumers
CAMEL-9739	Mina2Consumer exception handler do close session also for IOException
CAMEL-9740	Improve camel-infinispan
CAMEL-9743	Apache Camel distro - Only keep camel JARs
CAMEL-9744	camel-bindy - Add support for Java 8 date and time API
CAMEL-9745	Splitter - Should skip null messages if iterator returns null
CAMEL-9747	Java 8 upgrade - Set source and target to java 1.8
CAMEL-9748	Create Openstack Component
CAMEL-9750	Tests should not log on stdout by default
CAMEL-9752	Quartz2 Scheduled route too many workers
CAMEL-9755	Allow for nickserv identification
CAMEL-9757	camel-gae - Deprecate
CAMEL-9758	Remove releasing xxxComponent.properties et all
CAMEL-9759	camel-zipkin - Instrument Camel
CAMEL-9760	Google drive component syntax inconsistency
CAMEL-9761	camel-swagger-java - Allow to use custom CORS headers for api-docs
CAMEL-9762	Add setters on SecureSocketProtocolsParameters and CipherSuitesParameters
CAMEL-9764	Maven build: fix to support lambdas in code (JDK8)
CAMEL-9765	Direct-VM: Add header filter strategy and property propagation flag
CAMEL-9766	camel-itest-karaf - Cannot install in karaf 4 Unknown protocol: wrap

Issue	Description
CAMEL-9767	CDI deployment problem in JBoss EAP 6.3
CAMEL-9768	HTTP[4] component disableStreamCache issue: java.io.IOException: Attempted read from closed stream.
CAMEL-9769	camel-spring-javaconfig - Make the main class easier
CAMEL-9772	Make it easier to turn on/off logExhaustedMessageBody
CAMEL-9774	CXFPayload may lose CDATA sections under stream caching
CAMEL-9775	Clean configuration meta-datat description
CAMEL-9776	camel-braintree: add uri param to configure advanced options
CAMEL-9777	camel-zipfile - Using zip iterator with dataformat may fail
CAMEL-9778	Remove deprecated camel-gae
CAMEL-9779	camel-netty4-http - Using no port number issue
CAMEL-9780	Cannot install camel-hazelcast in Karaf 3.x
CAMEL-9781	Installing camel in Karaf 3.0.x
CAMEL-9782	camel-spring-boot - Allow to configure options on CamelContext using auto config
CAMEL-9783	Allow ConnectionConfiguration to be be injected to endpoint during connection creation
CAMEL-9784	Camel polling the files from S3 only once if deleteAfterRead is false
CAMEL-9787	Migrate Maven Archetypes to new build system
CAMEL-9789	CamelContext.getEndpoint should not start endpoint if Camel is starting up
CAMEL-9790	camel-kafka 2.17 not throwing TimeoutException back which is throw by Kafka client
CAMEL-9791	DeadLetterChannel not triggered on RejectedExecutionException
CAMEL-9793	PropertyPlaceholder not loading Property, thinks it is a Parameter
CAMEL-9794	camel-http4 - The producer should check the response header in the reply for content-type

Issue	Description
CAMEL-9795	camel-zipkin - Reuse existing span for complex eips like multicast
CAMEL-9796	Internal Access still displayed, no change to JSON generated
CAMEL-9797	camel-elasticsearch - Tests fails since recent upgrade
CAMEL-9798	camel-cdi - Add support for injecting default ProducerTemplate
CAMEL-9799	JSON/JSON Schema validator
CAMEL-9800	Create Spring Boot example with REST DSL and Swagger
CAMEL-9801	Camel Archetypes - Add Camel BOM as dependency management
CAMEL-9803	Camel-NATS: Switch to Jnats client as Java_nats is deprecated
CAMEL-9805	camel-sql - body not copied from in to out when useing outputHeader and outputType=SelectOne when sql doesn't return a result
CAMEL-9806	Add camel-IronMQ Karaf feature
CAMEL-9807	Blocking of CXF consumer endpoint by http GET request
CAMEL-9808	SFTP: Enable configuration of bulk requests
CAMEL-9811	camel-cdi - Add support for consumer template injection
CAMEL-9812	Camel leaves Kafka consumers running after shutdown
CAMEL-9815	Add URI parameter to skip the declaration of the exchange
CAMEL-9816	StreamCache - The cache method should support OUT as well
CAMEL-9818	Camel kafka consumer adds legacy (deprecated properties) in the kafka consumer
CAMEL-9819	camel-jetty8 test missing dependency
CAMEL-9820	SFTP readLock=changed does not work with readLockMinAge option
CAMEL-9821	camel-cxf should be able to handle InOnly MEP for the RAW MESSAGE dataFormat
CAMEL-9822	Upgrade to DeltaSpike 1.6.1

Issue	Description
CAMEL-9823	Exploring Consumer groups feature in Camel-kafka consumer side
CAMEL-9825	Exclude CDI generated proxies from context tracker
CAMEL-9826	MongoDB consumer could potentially block during shutdown
CAMEL-9827	MongoDB - The unit tests have some issues
CAMEL-9828	Swagger seems to inject empty headers
CAMEL-9830	camel-spring-javaconfig - Add routes like spring-boot does
CAMEL-9831	Camel-http4: Make possible to use System Properties for configuration
CAMEL-9833	Add mapHttpMessage option to allow to turn off mapping by default
CAMEL-9834	WatchConsumer does not properly set watchIndex
CAMEL-9835	Enable kafka consumer to subscribe to multiple topics
CAMEL-9838	Add ends with operator to simple language
CAMEL-9840	InfinispanIdempotentRepository should force return values for RemoteCaches
CAMEL-9841	NPE in MIME-Multipart Data Format if no file name is defined on attachment
CAMEL-9842	Expose additional endpoint configuration options to UndertowHost handler methods
CAMEL-9843	camel-beanio - Add BeanIOSplitter
CAMEL-9844	support for arn in aws-sqs connection string
CAMEL-9845	camel-jdbc - Silent ignore close errors
CAMEL-9848	Add mapHttpMessageFormUrlEncodedBody option
CAMEL-9849	camel-sql - Add support for OutputType=StreamList in the producer
CAMEL-9851	Zookeeper RoutePolicy failing to create znode
CAMEL-9852	Camel-weather: freegeoip.net is no longer available. Need switch to something else.
CAMEL-9853	Camel-CXF: Possible NPE in DefaultCXFBinding

Issue	Description
CAMEL-9854	CXF Stream Cache contains duplicate namespace definition
CAMEL-9859	Re-enable Netty4 Channel Options.
CAMEL-9860	csv dataformat - Should have quoteMode option in model
CAMEL-9862	Potential NPE in UndertowComponent.unregisterConsumer
CAMEL-9863	loopDoWhile will loop forever if using ahc component in the loop.
CAMEL-9865	Camel Karaf Commands - Upgrade to Karaf 3/4
CAMEL-9866	@PropertyInject doesn't work with Spring-Boot
CAMEL-9869	Create Apache Flink Component
CAMEL-9870	bean component - Add validation for parenthesis check
CAMEL-9871	FlatpackDataFormat ignores errors in Flatpack's DataSet
CAMEL-9872	VetoCamelContextStartException with rethrowException=false cases MainSupport class to hang
CAMEL-9873	Component should provide detail if a consumer/producer is native async supported
CAMEL-9874	Camel Jetty consumer endpoint incorrectly handles multipart/form-data
CAMEL-9875	CamelBlueprintTestSupport lacks support for multiple PID loading
CAMEL-9876	Error handling in splitter is broken with version 2.17.0
CAMEL-9877	InflightRepository - Add browse that can limit per route
CAMEL-9878	camel-commands - Add command to show top N inflight exchanges per routes
CAMEL-9879	Circuit Breaker EIP - That is using hystrix
CAMEL-9880	Header Support for Attachments in Camel 2.18
CAMEL-9881	Aggregator completionPredicate unusable with scala DSL
CAMEL-9882	Support importing Camel XML configuration files in Camel CDI

Issue	Description
CAMEL-9883	Add a SpringCache based idempotent repository
CAMEL-9884	Create a camel-ehcache component
CAMEL-9885	Camel-NATS: Add an option to specify the optional reply subject
CAMEL-9886	Create an etcd based RoutePolicy
CAMEL-9887	onCompletion not called on Splitter configured with CompletionAwareAggregationStrategy and shareUnitOfWork=true
CAMEL-9888	Create a camel-consul component
CAMEL-9890	Migrate Camel-websocket to Jetty9
CAMEL-9891	ApplicationReadyEvent not dispatched if camel.springboot.main-run-controller = true
CAMEL-9892	Aggregator completionPredicate does not support a more complex block with scala DSL
CAMEL-9895	Setup a by default password to access the spring boot ssh server
CAMEL-9896	Deadletter Failure processor is invoked even if error handling strategy defines to continue routing
CAMEL-9897	Add an Option to the XSLT Component to support custom EntityResolver
CAMEL-9898	SimpleBuilder throws NullPointerException when replacing string using regexAll method and the regex contains }
CAMEL-9899	camel-rx - Use a worker pool for tasks such as stopping consumers
CAMEL-9900	camel-jms - provide option for MessageListenerContainer for reply managers to stop quicker when CamelContext is stopping
CAMEL-9902	Remove ServiceMix scripting-api from Karaf features
CAMEL-9903	DumpRouteStatsAsXml do not work when jmx domain is customized
CAMEL-9904	Avoid creating an empty default Camel context in Camel CDI for empty deployments
CAMEL-9905	TarAggregationStrategy should delete temporary files
CAMEL-9906	camel-sql - Should allow null values as a valid value

Issue	Description
CAMEL-9907	Camel-Infinispan: Exposing cache stats through producer
CAMEL-9908	Remove jetty8
CAMEL-9909	Camel-Cassandraql: Supports missing Load Balancing policies
CAMEL-9910	Camel Rest - automatic component discovery
CAMEL-9911	RestBindingMode auto not honored
CAMEL-9913	Upgrading Beanshell for CVE-2016-2510
CAMEL-9915	Allow to use the tarfile data format in XML marshal/unmarshal
CAMEL-9916	SJMS component is not currently nodev/XML route compatible
CAMEL-9917	Route stopped events are sent in inconsistent order
CAMEL-9918	Support observing route events filtered by route id in Camel CDI
CAMEL-9920	Handle SocketTimeoutException on accept
CAMEL-9921	Dozer variable mapping doesn't work on karaf
CAMEL-9925	Update Salesforce component to use Jetty9
CAMEL-9926	HTTP Proxy support in Salesforce component is broken with upgrade to Jetty9
CAMEL-9927	Reduce object creation in RedisProducer
CAMEL-9929	camel-restlet - Using synchronous=false with no error handler leak inflight exchange
CAMEL-9930	camel timer docs - add supported formats
CAMEL-9932	sql-stored - Add support for arrays in grammar
CAMEL-9933	Camel-CSV marshalling breaks characters not in default charset
CAMEL-9934	Missing raw type in CDI parameterized event endpoint URI
CAMEL-9935	Rest DSL passes blank query parameters as null
CAMEL-9936	Camel-parent 17.0 uses incompatible logback-classic and slf4j-api

Issue	Description
CAMEL-9937	camel-catalog - Add api to validate time pattern
CAMEL-9938	TimerPatternConverter - Should be more strict
CAMEL-9939	beanio - Add support for custom BeanReaderErrorHandler
CAMEL-9940	ProducerTemplate - Make extract result set part of UoW
CAMEL-9941	Blueprint bug ARIES-1544 causes issues in Olingo2 configuration
CAMEL-9943	Expose mail session as a URI option for camel-mail endpoints
CAMEL-9944	FluentProducerTemplate - Make extract as part of UoW
CAMEL-9945	Upgrade to jetty 9.3
CAMEL-9946	Camel-Kubernetes: Add support for ConfigMap
CAMEL-9950	Camel-Websocket: NPE in case minThreads, maxThreads and getThreadPool equals to null
CAMEL-9951	Setup default values for thread-connected properties in WebSocket component
CAMEL-9953	Camel-ssh: Review logic in doStart and doStop in the SshConsumer and SshProducer
CAMEL-9954	FormatFactory should be real Factory-pattern
CAMEL-9955	Add uptimeMillis as JMX attribute to CamelContextMBean
CAMEL-9956	Add support for FluentProducerTemplate to CamelTestSupport
CAMEL-9957	camel-kafka producer sends the message in an async way
CAMEL-9958	Create an ehcache based idempotent repository
CAMEL-9959	Create an ehcache based aggregation repository
CAMEL-9960	create ReaderInputStream align encoding with Exchange
CAMEL-9962	Add a field in the consumer to define if it subscribed to the topic or not
CAMEL-9963	camel-blueprint - Namespace parser should skip placeholders for component dependencies

Issue	Description
CAMEL-9964	Annotation based DefaultProducer
CAMEL-9965	Throw meaningful exception of a streamed body has been consumed already
CAMEL-9966	Restlet - Should not enable stream by default
CAMEL-9968	camel restlet not populating body form parameters correctly for x-www-form-urlencoded
CAMEL-9969	Adding a component for Telegram
CAMEL-9970	CamelFileLength header is wrong for long write file
CAMEL-9972	Explicitly add Connection Close HTTP header with a parameter in URI
CAMEL-9973	CdiCamelExtension.shouldDeployDefaultCamelContext throws NPE with primitive injection points
CAMEL-9974	camel-sjms - Add completionPredicate to batch component
CAMEL-9976	camel:rest-show command requires only context name as argument and not route id
CAMEL-9978	Camel-Kafka: configuration type mismatch for parameter acks
CAMEL-9979	Bean parameter binding should reset stream cache before evaluate message body
CAMEL-9980	Allow to call OGNL on simple bodyAs function
CAMEL-9981	CamelSpringJUnit4ClassRunner registers listeners twice
CAMEL-9982	Marshalling fixed length record with links fails
CAMEL-9983	camel-hystrix - Lets removed the component now that we have the EIP
CAMEL-9984	RabbitConsumer.stop() doesn't stop underlying AutorecoveringConnection obtained from supplied ConnectionFactory
CAMEL-9986	MIME-Multipart Data Format is inconsistent if trying to unmarshal non-MIME data
CAMEL-9987	Add AsciiDoc documentation
CAMEL-9988	Create an Etcd based ServiceCall EIP
CAMEL-9989	Create a Consul based ServiceCall EIP

Issue	Description
CAMEL-9993	add NPE guard for camel-cxf RawMessageContentRedirectInterceptor
CAMEL-9995	Camel-JMS: includeAllJMSXProperties parameter doesn't work
CAMEL-9996	Use passed in Camel Context in org.apache.camel.spi.RestConsumerFactory#createConsumer implementations
CAMEL-9997	ServiceCall : ServiceCallServerListStrategy to support dynamic service name
CAMEL-9999	ServiceCall : improve APIs
CXF-7270	CXF on java 9 build 159 fails
ENTESB-4461	soap 1.1 response Content-Type is not handled as expected with soap 1.2 binding in camel-cxf endpoint
ENTESB-6838	camel-cxf feature should not be tied to cxf-http-jetty feature
ENTESB-7201	Add licenses to Camel's top-level pom file.
ENTESB-7327	camel-jpa component doesn't build in PNC
ENTESB-7766	Swagger version alignment
ENTESB-7864	Backport CAMEL-12357
ENTESB-7869	Backport CAMEL-12379
ENTESB-7871	Backport CAMEL-12370
ENTESB-7879	camel-hl7 example throws error when consuming file on Windows
ENTESB-7880	Backport CAMEL-12359
ENTESB-7898	Backport CAMEL-12407
ENTESB-7909	Backport CAMEL-12410
ENTESB-7912	Backport CAMEL-12412
ENTESB-7948	camel-netty4 - Does not support custom correlation ids
ENTESB-7956	Camel don't hide password with wrong defined route

Issue	Description
ENTESB-7968	SOAPAction header value should be overridden with operationNamespace and operationName
ENTESB-7975	Backport CAMEL-12441
ENTESB-7976	Backport CAMEL-12444
ENTESB-7978	Backport CAMEL-12446
ENTESB-7986	Align activemq-camel component with the new camel-activemq component introduced for Karaf
ENTESB-7992	Backport CAMEL-12418
OSFUSE-755	Replace community artemis version in BOMs
OSFUSE-818	missing camel-azure-starter in bom
ENTESB-5668	Camel SAP component ignores some IDOC fields
ENTESB-6250	camel-sap Adding caller information
ENTESB-6468	Improve Logging of IDoc Errors
ENTESB-6743	Default Values for SAP Parameters are not properly handled by SAP Camel Component
ENTESB-6772	Document reference in contained Segments not set when using Data Layer method
ENTESB-6817	SAP Camel Component does not properly handle attributes with '/' in name
ENTESB-6822	SAP Camel component build fails due to target definition.
ENTESB-6877	Serialization methods in SAP Component Data Layer encounter missing packages
ENTESB-6924	Share the life-cycle management of the JCo server connections among multiple instances of the SAP Camel component
ENTESB-7034	Base packages are not properly deployed to common package registry in OSGi environment.
ENTESB-7144	camel-sap: Base packages are not properly deployed to common package registry on EAP

Issue	Description
ENTESB-7265	Update camel-sap component to build with Fuse 7 camel version
ENTESB-7281	fuse-components should build with 7.0 camel parent
ENTESB-7351	camel-sap : create spring boot starter
ENTESB-7579	Add support for fuse-components camel-sap component on Karaf
ENTESB-7805	Add activemq-camel back to Fuse 7 Karaf kit
ENTESB-7823	camel-sap feature.xml should not contain references to karaf feature repositories
ENTESB-7986	Align activemq-camel component with the new camel-activemq component introduced for Karaf
ENTESB-7988	Align activemq-camel component with the new camel-activemq component introduced for Spring Boot

9.3. APACHE CAMEL ON EAP (WILDFLY) ISSUES RESOLVED IN FUSE 7.0

The following table lists the Apache Camel on EAP issues that are resolved in Fuse 7.0.

Table 9.3. Camel on EAP issues resolved

Issue	Description
CAMEL-12032	camel-json-validator - Switch to a different validator
ENTESB-2386	Problem with Spring CXF XSD on EAP
ENTESB-3702	Enhance deployment of Camel quickstart to EAP
ENTESB-3839	"com.jcraft.jsch" module should have "javax.api" dependency
ENTESB-3852	Unable to deploy WildFly-Camel system contexts
ENTESB-5667	[ENTESB-4664] Braintree module.xml dependency problem
ENTESB-5676	Lock down Jolokia by default in Fuse standalone
ENTESB-6584	Fix various wildfly-camel failures on AIX
ENTESB-6912	Add licenses.xml to Fuse 7 EAP kit

Issue	Description
ENTESB-7159	Add support for fuse-components camel-sap component
ENTESB-7276	Build Fuse EAP OpenShift image from a defined Dockerfile
ENTESB-7285	Remove unwanted camel components
ENTESB-7469	Camel Docker component cannot use Unix socket connections on EAP
ENTESB-7801	Check for usage of deprecated components
ENTESB-7903	camel-salesforce query attributes are not mapped correctly
ENTESB-7986	Align activemq-camel component with the new camel-activemq component introduced for Karaf
ENTESB-8033	Upgrade to EAP-7.1.2
ENTESB-8040	Remove xmlrpc from Fuse 7 kits.
ENTESB-8050	org.apache.cxf.ext Jboss module is missing jettison dependency
ENTESB-8051	camel-hl7 does not work on EAP
ENTESB-8110	Fuse EAP archetype generated pom.xml contains invalid configuration
OSFUSE-648	jstat in container does not work

9.4. APACHE CXF ISSUES RESOLVED IN FUSE 7.0

The following table lists the Apache CXF issues that are resolved in Fuse 7.0.

Table 9.4. Apache CXF issues resolved

Issue	Description
CXF-1194	Schema Validation & MTOM fails
CXF-3453	WS-Security signed headers fail when schema validation enabled
CXF-3574	JMSPropertyType should support non string properties
CXF-4028	X509TokenValidator uses signature-crypto-provider instead of encryption-crypto-provider
CXF-4209	Server side message redelivery support for WS-RM

Issue	Description
CXF-4692	Allow customization of Request Security Token Response
CXF-4821	UseAsyncMethod annotation does not work with Provider interface
CXF-4851	AttachmentDeserializer cannot handle attachments with Quoted Printable content transfer encoding in initializeRootMessage
CXF-5091	Leverage Spring's @Configuration mechanism to simplify the creation and configuration of client proxies for integration testing
CXF-5096	cxf-utils.js has incorrect error handling
CXF-5436	Poorly crafted response caused NullPointerException when processing incoming message
CXF-5525	Client - UntrustedURLConnectionIOException even the HTTPS established with client certificate auth
CXF-5697	WHICH_JARS inconsistent with lib/ contents for 2.7.11
CXF-5754	JMSConduit - temporary queue not being closed if replyMessage is null (timeout)
CXF-5782	Lower logging level of generated class names
CXF-5788	JMS replyToDestination doesn't work
CXF-5800	Exceptions and response problems when using schema-validation and base64Binary element (with or without MTOM)
CXF-5903	Change TransportURIResolver to at least log exceptions
CXF-6029	Questionable exception handling
CXF-6044	Obsolete Testing Method in LDAPClaimsTest
CXF-6161	wsdl2java can use invalid local filename when working with wsdl imports
CXF-6186	Update for demo jms_spring_config server exiting approach
CXF-6216	No output sanitizing in FormattedServiceListWriter
CXF-6240	W3CDOMStreamReader does not report processing instructions
CXF-6324	cxf-codegen-plugin cxf-java2ws-plugin: classifier ignored when there are more than one wsdl with different classifier is involved

Issue	Description
CXF-6423	PrettyLoggingFilter tests and improvements
CXF-6454	Orphaned JMS connections created in endless loop
CXF-6463	AbstractHTTPDestination.cacheInput() throws NullPointerException if HttpServletRequest returns null for getInputStream()
CXF-6510	LoggingOutInterceptor: formatLoggingMessage method is not used in every case
CXF-6523	org.apache.cxf.interceptor.Fault: wrong number of arguments (due to explicit soap header)
CXF-6549	JMX MBean for IdentityCache throws RuntimeOperationsException
CXF-6580	wsdl2java - Issue with import to default namespace
CXF-6598	java.lang.IndexOutOfBoundsException when processing response
CXF-6604	Sporadic ClassCastException in AsymmetricBindingHandler#doSignBeforeEncrypt
CXF-6646	CXF 3.x WSRM message may not be retrieved from database
CXF-6666	Permit \"unknown\" SOAP message header elements and attributes to prevent Unmarshalling Error: unexpected element
CXF-6672	PollingMessageListenerContainer does fail silently upon java.lang.Error
CXF-6692	Update AbstractOAuthDataProvider to support JWT access tokens
CXF-6717	Live WSDL regression: Fails updating schemaLocation in catalog-imported schema
CXF-6725	Remove deprecated JOSE configuration properties
CXF-6728	Review and improve the way EC keys are handled in JOSE code
CXF-6731	wsdl2java returning error \"{A_Type}\" is already defined\" from versions 3.1.3, 2.7.18, 3.0.7
CXF-6740	Collision by Swagger2Feature in two OSGI bundles
CXF-6760	extract swagger2 feature in its own module
CXF-6768	WS-Discovery missing schema when internet connection not present

Issue	Description
CXF-6778	Invalid replyDestination is cached after jms connection has been reset
CXF-6782	Modifications to JAX-WS client request context leak the thread scope
CXF-6798	JAXRS 2.0 Clients do not support ParamConverters
CXF-6836	Swagger2 tests need to be updated to do a more robust JSON or YAML comparison
CXF-6851	JAXRS 2 Feature not supported on server side?
CXF-6852	Java 8 java.lang.OutOfMemoryException: Metaspace issue while generating dynamic client
CXF-6859	STSTokenValidator: logging and exception handling improvement
CXF-6863	WS-RM 3.x does not work with attachments upon a network error
CXF-6866	bindingId on Client/ServerFactoryBean does not overrule WSDL
CXF-6868	empty Authorization header result in server error
CXF-6869	Consider adding Spring Boot starter
CXF-6872	Remove redundant blueprint.xml in http-hc
CXF-6877	Have @SchemaValidation working on service endpoint implementation class method
CXF-6878	Protect against other exception during consuming left-over data
CXF-6883	Crypto caching issues in the WS-Security code
CXF-6884	Don't include Signature/EncryptedKey Elements if there are no references to be signed/encrypted
CXF-6886	CXF 3.x WSRM attachments are not retransmitted
CXF-6887	http-hc: NPE and incorrept assumption that there is only one bus
CXF-6890	"\ affirmative\" is misspelled in debug output
CXF-6891	IOUtils.isEmpty() doesn't reinclude byte in stream.
CXF-6894	NullPointerException when running Maven plugin cxf-codegen-plugin

Issue	Description
CXF-6895	Create DOM4JProvider test reading an XML sequence with BOM
CXF-6900	invalid signature in case of soap fault
CXF-6901	UriBuilder may lose resolved query templates
CXF-6903	add a NameDigestPasswordCallbackHandler for JAASLoginInterceptor
CXF-6904	Unable to read swagger annotations if the file is in another osgi bundle
CXF-6906	UriBuilder ignores a query component if URI contains templates
CXF-6907	CXF-WSN improvment in onMessage listener
CXF-6908	Prefix \"SOAP-ENV\" for element \"SOAP-ENV:Fault\" is not bound
CXF-6909	Create an JCache based OAuthDataProvider
CXF-6910	don't need setSocketTimeout when create ahc RequestConfig
CXF-6915	Jws Compact does not support unencoded non-detached payloads
CXF-6918	Print the XMLInputFactory implementation class when throwing \"Cannot create a secure XMLInputFactory\"
CXF-6919	{http://cxf.apache.org/faultcode}HandleFault is not a standard Code value
CXF-6923	org.omg.CORBA.TIMEOUT is not handled with Jacorb implementation
CXF-6925	Make per-realm crypto configuration as flexible as the static one
CXF-6926	StaticSTSPProperties does not allow initialization of crypto from Properties object
CXF-6927	check if msv is available in Stax2ValidationUtils to avoid the NCDFE when use IBM JDK
CXF-6929	Request hangs when using JAX-RS AsyncResponse and Exception mapper
CXF-6930	Race-Condition with JMS-transport, LoggingInInterceptor spoils the payload while logging it
CXF-6933	WadlGenerator doesn't honor multiple Descriptions for same DocTarget

Issue	Description
CXF-6935	Better error message than java.lang.NullPointerException - org.apache.cxf.common.util.Compiler.useJava6Compiler(Compiler.java:187) when running on a JRE instead of JDK
CXF-6936	Make log-category for ext logging feature configurable
CXF-6938	Setting the providers on a bus causes a leak if this bus is used by per-request clients
CXF-6939	can't install cxf-http-async feature
CXF-6940	Bus Reference nullified pre-maturely in ClientImpl causing Exceptions while processing Responses
CXF-6941	Send Comma Separated Array in url request
CXF-6942	cxf-codegen-plugin wsdlArtifact failed to resolve WSDL
CXF-6943	Dead lock on Async Response when timeout is set
CXF-6945	cxf-wadl2java-plugin wadlRoot configuration parameter typo
CXF-6947	Make it possible to use custom LDAP filters when retrieving group information
CXF-6948	WebClient may cause JMX CounterRepository OOM if a request URI varies a lot
CXF-6949	Add support to the ReceivedTokenCallbackHandler to return a transformed token
CXF-6951	Support using the initiator token's public key for response encryption by recipient
CXF-6953	Update service list formatters for REST endpoints to optionally link to Swagger
CXF-6957	JAX-RS: ExceptionMapper not called for Fault
CXF-6959	Error loading Aegis Databinding in OSGi
CXF-6960	Provide an option for Swagger2Feature to detect and serve SwaggerUI resources
CXF-6961	Lots of invalid checkstyle errors reported in eclipse neon
CXF-6962	Basic auth uses UTF-8 for the encoded password when it should use ISO-8859-1
CXF-6966	Using CXF in JDK endorsed dir as JAX-WS impl crashes
CXF-6967	Content Disposition filename should be case-insensitive

Issue	Description
CXF-6970	HTTP response headers are always set with <code>HttpServletResponse.addHeader</code>
CXF-6971	Update Jettison version to 1.3.8
CXF-6972	JweJsonProducer does not support per-recipient headers
CXF-6973	Allow to configure http conduits and destinations using features
CXF-6976	High memory footprint when maven assembly plugin is used together with <code>cxf-codegen-plugin</code>
CXF-6979	NPE in <code>AbstractHTTPDestination.invoke</code> when service is invoked very early
CXF-6981	Getting <code>"java.io.IOException: stream is closed"</code> for > 64K messages
CXF-6983	<code>org.apache.cxf.jaxrs.provider.AbstractJAXBProvider#handleJAXBException</code> doubles the error text for unmarshalling errors
CXF-6984	<code>OAuthJSONProvider</code> mixes expirytime and issuer in <code>writeTokenIntrospection</code> .
CXF-6985	parameter state may contain spaces, it must be urlencoded in response.
CXF-6986	Don't require an application class if using CDI
CXF-6987	Consider classes attribute of application when using CDI
CXF-6988	Improved test suite for CDI systests
CXF-6989	Content Disposition does not handle <code>"="</code> in filename
CXF-6990	Swagger tags not sorted if using <code>Swagger2Feature</code>
CXF-6991	WS-RM - Request context properties are lost when sending subsequent protocol message
CXF-6992	<code>ParamConverterProvider</code> invoked with wrong types
CXF-6993	JweJsonProducer does not support multiple recipients if CEK is auto-generated
CXF-6994	<code>RMCaptureInInterceptor</code> running on GET requests
CXF-6996	<code>"\n"</code> in JWK for RSA should be unsigned, but is signed in <code>JwkUtils.prepareRSAJwk</code>
CXF-6998	Manual resolve <code>ApplicationPath</code> from parent classes as well.

Issue	Description
CXF-7000	Allow logging to be enabled on-the-fly
CXF-7002	Add isExpired method in JettyContinuationWrapper
CXF-7003	Allow STS Tokens to have an optional ID
CXF-7004	Custom DateTime property is not serialized to JSON properly
CXF-7005	NullPointerException when using JwkUtils.toRSAPrivateKey
CXF-7006	add an util method in AuthorizationUtils which can take AuthorizationFailure cause
CXF-7008	Regression: CXF-5788 - JMS replyToDestination doesn't work
CXF-7010	Swagger2Feature can not auto-link to SwaggerUi in OSGI
CXF-7015	Invalid URL encoding causes error 500
CXF-7016	Update New Logging interceptors to control the logging of binary & multipart payloads
CXF-7017	@BeanParam not working in subresource
CXF-7020	explicitly create woodstox event factory as fallback if XMLEventFactory.newInstance fail
CXF-7021	The WS-SecurityPolicy TransportBinding does not respect the digest method of the algorithm suite
CXF-7022	Allow customization of Swagger JSON generation
CXF-7024	Support original WADL namespace prefix without incrementing it
CXF-7025	Find boundary from InputStream
CXF-7026	o.a.c.transport.http.osgi.HttpServiceTrackerCust service leak
CXF-7027	WADLGenerator should support AsyncResponse if ElementClass annotation is used
CXF-7028	AsyncResponse Suspended annotation can not be inherited
CXF-7029	HttpAuthenticationFaultHandler cause java.lang.IllegalStateException: WRITER
CXF-7032	Update WadlToJava to support javax.validation.Valid

Issue	Description
CXF-7033	LoggingInterceptors do not handle messages with non-UTF-8 encoding properly
CXF-7034	should close HttpServiceTracker in HTTPTransportActivator
CXF-7035	Default Swagger2Serializers dynamicBasePath code needs to sync BeanConfig with Swagger
CXF-7037	@Suspended can be broken on tomcat
CXF-7038	ensure the JMS Connection get refreshed so that the jms retry can get a useful Connection
CXF-7039	JAX-RS Security SAML web SSO consumer service can not validate SAML response behind reverse proxy
CXF-7040	Swagger UI Feature's resource root is incorrect for executable JAR/WAR
CXF-7042	review some jaxrs client defaults: thread safe and split headers
CXF-7043	JAX-RS endpoints cannot handle encoded URL when used with continuation and servlet transport
CXF-7044	LoggingInInterceptor sometimes crashes if truncates response with Unicode symbols
CXF-7045	Update sample description_swagger2_osgi README.txt
CXF-7058	Extra CDATA elements added on long CDATA payload
CXF-7060	Provide Karaf 4 specific features and commands
CXF-7069	Finish JPACodeDataProvider implementation
CXF-7070	HTTP headers logged in debug
CXF-7071	HttpServletRequest.getParameter only get String from query not both posted form data
CXF-7072	Make it easier to auto-discover MetricsFeature
CXF-7075	Remove unnecessary string.length() and map.containsKey(...) calls to improve performance
CXF-7078	Allow the use of the JMS 2.0 api

Issue	Description
CXF-7081	accept asm6 xbean shade
CXF-7083	Maven Plugins: System properties handling in ClassLoaderSwitcher breaks thread safety
CXF-7084	Pass a value for the KeyName element from the XmlSecOutInterceptor to Santuario
CXF-7087	Getting the wsdl from a cxf webservice with custom XMLOuputFactory throws an exception
CXF-7088	SignedEncryptedSupportingTokens in WS-Policy and SAML not encrypted being accepted
CXF-7089	Let ParamConverters handle null proxy path parameters
CXF-7090	WSS4J not in <dependencyManagement> section
CXF-7091	JAXRSBeanValidationOutInterceptor fails to validate Response entity on the 2nd try
CXF-7092	Swagger2Feature tries to resolve swagger-ui resources with api-docs
CXF-7093	Investigate how SpringBoot demos can be included in the distribution
CXF-7095	CDI integration doesn't use the right bus to create the server factory
CXF-7096	Server side memory leaking if clients do not send CloseSequence
CXF-7097	[CDI] application leaks a creational context
CXF-7099	Technical user should be the SAML Subject for the ActAs use-case
CXF-7101	SpringBoot JAX-WS example fails
CXF-7105	Don't register default application if no services discovered
CXF-7107	Support inserting claims into tokens issued by the STS in conjunction with ActAs
CXF-7109	ClientCallback may be invoked twice when Async HTTP Transport is used
CXF-7110	Inflexible jwt audience restriction validation
CXF-7111	Make the security token lifetime configurable

Issue	Description
CXF-7112	AsyncHTTPConduit ignore the ReceiveTimeout when use Async JAXWS api
CXF-7114	Disable HTTP TRACE method on CXF http-jetty transport
CXF-7115	Issuer in TokenIntrospection should be quoted in JSON
CXF-7116	AsyncResponse.resume() infinitely hangs up after first call
CXF-7117	Swagger2Feature not working in OSGi container when jaxrs server address not attached to CXF servlet
CXF-7119	Introduce a JAX-RS client provider for catching technical exceptions (e.g. IOException)
CXF-7121	Need to log a warning when async method returns a non-void type
CXF-7122	Infinite loop due to AsyncHTTPConduit read timeout with exhausted connection pool
CXF-7123	JAXRS Clients will hang if they do not set a oneway exchange status before the call and 202 is returned
CXF-7124	PackageUtils.getSharedPackageName(List<Class<?>>) has bug
CXF-7125	Automatically expose logging feature as intent for DOSGi
CXF-7129	Provide an optional HTrace Logging receiver
CXF-7132	CDI Multi-app tests fail when classes have scope
CXF-7133	Don't rely on disabled scanning in CDI
CXF-7134	Fix how non-normal scoped beans are used in CDI extension
CXF-7135	ConcurrentModificationException in MessageImpl.calcContextCache() when using JMS Transport and JAXRS Client
CXF-7137	Allow OAuth2 customization via Swagger2Feature
CXF-7139	BufferOverflowException when decoding a parameter values with a trailing %
CXF-7140	Multiple calls to AsyncResponse.cancel() returns different values
CXF-7142	Blueprint mandatory in OSGi

Issue	Description
CXF-7144	support to specify pullpoint queue name of WS-N
CXF-7145	synchronized store and getMessages of JmsPullPoint would cause deadlock
CXF-7147	Unable to register a generic <i>InvocationCallback<Object></i> when using the async proxy client API in JAX-RS
CXF-7148	Race Condition while handling symmetric key in SymmetricBindingHandler
CXF-7152	OIDC FormResponse mode needs to be supported for Implicit Flow too
CXF-7155	JAXRSOutInterceptor do not close CachedOutputStream when out buffering is enabled
CXF-7156	java2ws-plugin - add portName as configuration option
CXF-7157	Support the client side bean validation for CXF client proxies
CXF-7161	OIDC Dynamic Registration : NPE for implicit grant_types
CXF-7162	Inconsistent reading of formatted xml when validating schema
CXF-7166	NullPointerException at org.apache.cxf.common.jaxb.JAXBUtils.createJAXBContextProxy with IBM-JDK 8
CXF-7168	CXF WSN Publisher SOAP 1.2 Binding
CXF-7174	NullPointerException when Content-Type is not specified in the http request
CXF-7179	Unable to set ServerConnector in JettyHTTPServerEngine using jetty 9
CXF-7183	CXF Blueprint namespace don't work well with blueprint-core 1.7.x
CXF-7185	Xml validation with Mtom enabled is not working with french locale
CXF-7187	MAPCodec: memory leak with sync client when soapfaults returned from endpoint
CXF-7189	org.apache.cxf.jaxrs.ext.multipart.Attachment.getObject do not rethrow exception
CXF-7190	org.apache.cxf.jaxrs.ext.MessageContextImpl.createAttachments lost inner exception
CXF-7198	cxf-spring-boot-starter does not work with Spring Boot 1.5.0 or above

Issue	Description
CXF-7201	Incorrect JSON return in openId connect UserInfo when no signature or encryption
CXF-7204	CXF 3.1.9 does not support Spring 3.2, enforces Spring 4.1
CXF-7205	In JmsPullPoint create session for producer and consumer separately and synchronized the session but not the whole method to avoid deadlock
CXF-7207	JCacheOAuthDataProvider can leak jcache component(s)
CXF-7210	StringIndexOutOfBoundsException during construction of failover request
CXF-7213	FIQL Parser: Crashes when parsing a collection (java.util.Set) inside an object
CXF-7220	WS-Security StaX processing fails on whitespace after the SOAP Body opening tag
CXF-7222	Improve extensibility of JAX-RS ExceptionMappers
CXF-7228	ProviderInfo rarely supports proxies
CXF-7230	Unable to disable access to default wadl generated by cxf
CXF-7231	Java HttpURLConnection Reflection Fix to support custom verbs does not work with HTTPS
CXF-7233	Create workaround for JDK HostnameVerifier issue
CXF-7234	JavaDocProvider should not require a ref to the JavaDoc lib
CXF-7235	MessageSelector is not set in JMSConfiguration due to missing property in JMSEndpoint
CXF-7236	JAXRSInInterceptor throw java.lang.IndexOutOfBoundsException if Accept header is empty
CXF-7240	JAX-WS Dispatch incorrectly asserts that Message mode with XML/HTTP binding is invalid when using instances of DataSource
CXF-7241	JAX-RS ContainerRequestContext#setRequestUri() will cause a 404 when Uri contains a query string
CXF-7242	New cxf-rt-features-logging doesn't log incoming payloads
CXF-7243	Setting replyToDestination uses wrong queue

Issue	Description
CXF-7244	CXF 3.1.10 AbstractSearchConditionParser importing Olingo Collection class
CXF-7250	NPE in HTTPTransportActivator stop if DISABLE_DEFAULT_HTTP_TRANSPORT is true
CXF-7251	Connection timeouts set as ints are disregarded
CXF-7252	TLSPParameterJaxBUtills.getTrustManagers getting password from wrong system property
CXF-7254	New LoggingFeature SI4jEventSender does not log the request headers
CXF-7255	Allow empty (\"") passwords when calling a service
CXF-7256	CrossOriginResourceSharingFilter should have @Provider annotation
CXF-7258	SwaggerUiResolver: Swagger UI root can't be found
CXF-7259	LoggingOutInterceptor filtering
CXF-7262	JAXRS: ClientConfig lost when using templates in the path method
CXF-7263	ResourceOwnerLoginHandler needs to accept Client parameter
CXF-7264	NPE on OAuth RO/CC flows using JPA
CXF-7265	Symmetric INFO logging for registering and unregistering MBeans
CXF-7267	Member names must match bean attribute for BeanParam to work
CXF-7268	Make it easier to pre/post process OAuth2 client retrieval in AbstractOauth provider
CXF-7269	schemavalidate failed when use mtom and Provider
CXF-7271	add cxf-rt-rs-json-basic bundle into cxf-jaxrs feature
CXF-7277	Make ClientProxyImpl reset client state after a call
CXF-7278	Netty HttpResponseEncoder is not set before HttpObjectAggregator
CXF-7279	Leaky generic type resolver doesn't work with more than 1 parameter
CXF-7280	Avoid unnecessary string allocation in IOUtils::toString

Issue	Description
CXF-7282	Support the overriding of Application resource life-cycle when it is autodiscovered
CXF-7285	Subclasses of FailoverTargetSelector should have a way to obtain the InvocationKey
CXF-7286	JPA : PersistenceException on refreshAccessToken
CXF-7287	Incorrect JSON decoding in JsonMapObjectReaderWriter when commas are used in value
CXF-7290	Restrict which @Bean components are treated as JAX-RS providers
CXF-7291	sharedPackageName for Swagger description should ignore proxy classes
CXF-7292	Additional privileged blocks for JAXWS client running with Security Manager enabled
CXF-7293	AbstractSpringComponentScanServer must ignore client proxy classes
CXF-7294	Incorrect header parameter for Jose ECDH KA public key
CXF-7296	Add support to enable revocation for TLS via configuration
CXF-7297	Improve the way CXF endpoint metrics are shown in Spring Boot
CXF-7298	JacksonJaxbJsonProvider does not work in OSGi
CXF-7299	No way to configure TLS for the JettyHTTPServerEngineFactory in code
CXF-7300	JWS verification issue
CXF-7301	Exceptions thrown from the inbound JAXRS client interceptors are not reported
CXF-7303	java.io.FileNotFoundException on JIBX binding with customization
CXF-7304	WADL generator doesn't work properly in case cyrillic characters is used in URL
CXF-7305	Replace prerequisites with maven-enforcer-plugin
CXF-7307	empty query string injects into number type will lead 404 error
CXF-7310	org.apache.cxf.jaxrs.client.ClientProxyImpl#getAccept does not handle Accept header with multiple media types

Issue	Description
CXF-7312	FailoverTargetSelector.replaceEndpointAddressPropertyIfNeeded does not update REQUEST_URI
CXF-7314	Custom BinarySecurityTokens are not used to set up the security context
CXF-7315	Abstract the STS client token caching behaviour to allow the user to plug in a custom implementation
CXF-7316	Update swagger-jaxrs dependency to 1.5.16
CXF-7329	Missing @Validated on CxfProperties
CXF-7344	REST on JMS Transport Fails with Invalid JMS Property
CXF-7350	the exception should be able to return to client if retry is 0 with ws-rm
CXF-7356	need consider SoapBinding has multiple default namespace when compare two bindingId
CXF-7365	Support signing multipart using Jws Detached Signature
CXF-7401	CXF http-jetty fails to get private key if the jks keystore file contains multiple private keys with different password
CXF-7449	introduce a property to set an informative message for the reason phrase when it's null in the response message
CXF-7507	Put a configurable limit on the attachment header sizes
CXF-7528	[osgi] rt-transport-http should not fail during servlet unregistration
CXF-7529	[osgi] Stale CXF's javax.ws.rs.ext.RuntimeDelegate after refreshing rt-frontend-jaxrs bundle
CXF-7530	AttachmentSerializer miss a CRLF before the multipart-body per spec rfc2046
CXF-7531	add async-supported init parameter configuration for the cxf-osgi-transport-servlet
CXF-7532	REST on JMS transport can't handle the request message with text messageType
CXF-7558	set retryInterval default value to 5 sec if not specify it in JMSConfiguration
CXF-7587	JAXRS Server fails to serve requests when context path ends with asterisk '*' character
CXF-7603	private a way that only a set of client IP can access the WADL

Issue	Description
CXF-7607	JAXRS only consider the first \"Accept\" header in the request
CXF-7628	JMX mbean 'Thread Pools' and 'Connectors' for Jetty are not registered if CXF endpoint is configured with engine-factory element having threadingParameters.
CXF-7671	should avoid reverse dns resolution in AsyncHTTPConduit for the proxy host address
CXF-7689	ensure don't have content-type content-length as jms message headers when use REST on JMS Transport
ENTESB-4539	Add support for MS AuthenticationPolicy
ENTESB-5379	Enhance DefaultEHCacheOAuthDataProvider to share an overflow file.
ENTESB-6836	soap-mtom quickstart : org.apache.cxf.interceptor.Fault: Could not write attachments
ENTESB-6912	Add licenses.xml to Fuse 7 EAP kit
ENTESB-6940	Feature:install triggers sshd shell restart too often"
ENTESB-7100	Change the location of the public-suffix-list data file."
ENTESB-7125	Circular dependency between fuse-karaf and fabric8 projects
ENTESB-7167	Karaf, EAP maven artifacts with different versions
ENTESB-7314	Add dependencies for cxf-xjc-plugins to allow automated builds.
ENTESB-7371	CXF in FUSE7 should run with SpringBoot 1.5.x
ENTESB-7514	Gateway is not taking the URI's with asterisk '*'
ENTESB-7617	regression with /api-docs swagger in cxf jaxrs
ENTESB-7766	Swagger version alignment
ENTESB-7875	CXF bean validation JAX-RS and JAX-WS feature does not work
ENTESB-7913	Incorrect dependency of Netty in cxf-parent
ENTESB-8014	private key default blocksize changed from 128 to 256 since JDK8 161
OSFUSE-685	spring-boot-camel-amq WARN validation constraints with no @Validated

Issue	Description
OSFUSE-749	karaf-cxf-rest doesn't work
OSFUSE-781	cxf jaxws security - com.codahale.metrics wrong version

9.5. FUSE CONSOLE (HAWTIO) ISSUES RESOLVED IN FUSE 7.0

The following table lists the Fuse Console (Hawtio) issues that are resolved in Fuse 7.0.

Table 9.5. Fuse Console issues resolved

Issue	Description
ENTESB-1385	Preferences - Inconsistent capital letters in labels
ENTESB-1410	Fabric - Runtime - APIs: Sorting in table doesn't work when clicking column header
ENTESB-1428	Hawtio error on Internet Explorer 11
ENTESB-1433	Bouncy diagrams with circles and arrows are not rendered correctly in Internet Explorer
ENTESB-1450	Hawtio allows a profile to be deleted that is assigned to a container
ENTESB-1522	UI support for the role based permissions
ENTESB-1641	Hawtio console does not show multiple Camel Context in the Camel Tree
ENTESB-1694	Create shading of profile list in Create container/add profiles to container similar as in in Wiki page
ENTESB-1715	ActiveMQ: Health mBean Create Queue and Topic does nothing
ENTESB-1908	Preferences sliding window shows at login page
ENTESB-1981	Hawtio - Mouse right click on activemq tree element or jmx tree element in hawtio will open welcome screen in Firefox
ENTESB-2039	Hawtio - Dashboard: Create Gist on github button always disabled
ENTESB-2092	Hawtio - Fabric - Wiki: Profile disappears when copied under the same name to the same folder
ENTESB-2224	hawtio RangeError: Maximum call stack size exceeded

Issue	Description
ENTESB-2227	Link to Preferences points to ActiveMQ page
ENTESB-2229	Git tab twice in Preferences
ENTESB-2231	Behavior of Host identification
ENTESB-2237	Unable to create version containing string in name from hawtio in 6.2
ENTESB-2243	Rephrase sentence in FAQ
ENTESB-2249	Jmx - Operations: Parameter type's label jumps up when mouse over checkbox
ENTESB-2250	Log Out menu option disappears after entering page address manually or page refreshing
ENTESB-2251	"Log Out" option and it's pupup label "Log out" option differs in capital letters usage
ENTESB-2255	Change label formatting
ENTESB-2256	Switching between different Brandings and Themes does not work properly
ENTESB-2267	Fabric: Profiles under Containers tab are checkable without any reason
ENTESB-2268	Fabric: "Details..." link by profiles under Containers tab is dead
ENTESB-2269	Fabric: Default profile doesn't load it's icon image
ENTESB-2273	Fabric - Profile remove confirmation dialog: Inconsistent button names (Remove, Delete)
ENTESB-2275	Fabric-Scaling-Profile requirements: Adding host tag erases set values
ENTESB-2276	Clicking Logs tab causes switch of main navigation tabs set when Insight profiles deployed
ENTESB-2284	Fabric: Scaling - broken layout when page resized
ENTESB-2287	Hawtio - Terminal: unable to execute any command
ENTESB-2290	Hawtio - Terminal: osgi:info command problem
ENTESB-2293	Preferences tooltip
ENTESB-2302	Fabric - Wiki: Version menu displays behind profiles' tree structure

Issue	Description
ENTESB-2314	Fabric - Dashboard: Delete button doesn't delete all selected dashboards
ENTESB-2316	Fabric - Dashboard - Manage: Checkbox for all dashboards selection stays checked
ENTESB-2331	OSGi - Dependencies: Different popup errors in different browsers when the page loads
ENTESB-2338	Add New Profile Dialog: Clicking on a profile name loads a profile page behind the dialog
ENTESB-2339	Add New Profile dialog: Disallow adding the same profile multiple times
ENTESB-2340	Scaling - SSH Configuration, Docker Configuration: All numeric values can be set to be 0 or negative
ENTESB-2341	Fabric - Scaling: It is possible to create empty HostTag
ENTESB-2345	Hawtio becomes not available when the client repeatedly tries to create more connections than 'maximumConnections' property
ENTESB-2349	Fabric - Wiki - History: "Compare" and "Revert" buttons are always inactive
ENTESB-2351	Fabric - Wiki: Can't create document "patternpattern.aaa" while "pattern.aaa" already exists
ENTESB-2353	Fabric - Wiki - Actions: History action link behaves as intended but confusingly when a tree item selected
ENTESB-2357	Fabric - Wiki - Camel route editor: Save button active even if grayed out
ENTESB-2359	Word "any" twice in one sentence
ENTESB-2360	"Clear recent" option looks like one of the perspectives
ENTESB-2362	Try to change alignment in Help
ENTESB-2364	Fabric - Wiki - Camel route editor: Cannot find use of "Cancel" button. Does it do even anything?
ENTESB-2368	Irrelevant link in FAQ
ENTESB-2369	Missing dot at the end of the sentence
ENTESB-2371	Page content doesn't load after refresh

Issue	Description
ENTESB-2372	Fabric - Wiki - Camel route editor: Preserve unsaved changes when switching between \"Canvas\" and \"Tree\" view
ENTESB-2385	Fabric - Services - Registry: Strangely placed \"^\" signs in registry path
ENTESB-2388	Fabric - Services: Synchronize doubly displayed profiles selection while creating new container
ENTESB-2389	double login required when connecting to another fabric container
ENTESB-2393	Container's detail page: Container name cut from bottom
ENTESB-2401	[user experience] hawtio fabric wiki page missing picture
ENTESB-2408	Hawtio console should default to showing the current default configuration version, rather than 1.0
ENTESB-2418	The 6.1 R1P1 Patch Breaks Jolokia URL
ENTESB-2423	[UX] ugly template page visible for a moment when displaying a container view
ENTESB-2424	REST quickstart / SOAP quickstart buttons in API view are never shown by default
ENTESB-2435	[UX] Cannot create containers directly from the \"Containers\" view
ENTESB-2437	Dashboard - Empty textbox for widget renaming is too long, therefore submit and cancel buttons are hidden
ENTESB-2440	Dashboard - the second widget on a dashboard is placed far far down
ENTESB-2454	Dashboard - unscrollable widgets' content
ENTESB-2462	Error Unknown provider
ENTESB-2474	Adding artifact to a profile by drag and drop file action doesn't work
ENTESB-2481	Repeated login/logout becomes slower and slower
ENTESB-2492	OSE hawtio fabric \"Containers\" view \"Open a new window and connect to this container\" does not open the Log view
ENTESB-2510	Fabric - Containers - Profiles: Filtering doesn't work
ENTESB-2512	Fabric - Wiki: Version's menu has clickable separator-like labels

Issue	Description
ENTESB-2514	Fabric - Wiki - Patch version: Cancel button redirects to Welcome page
ENTESB-2681	Fabric - Dashboard - Manage: List of dashboards is empty
ENTESB-2709	Some property keys are not displayed with correct color in hawtio
ENTESB-2714	Fabric - Containers - Containers: Root container filtering doesn't work
ENTESB-2715	Fabric - Containers - Containers: Filtering box has 2 crosses to delete it's content
ENTESB-2719	Fabric-Dashboard-Manage-DuplicateTo Profiles: Clicking profile name in \"Copy dashboards\" dialog opens profile page in background
ENTESB-2727	Fabric - Services - Profiles: Target count of instances with a profile is green even if current state exceeds set maximum
ENTESB-2739	Exception happens when trying to delete ssh container several times via Hawtio (and Zookeeper failed to select master)
ENTESB-2782	Fabric - Services - MQ: Filtering shifts some boxes with brokers down
ENTESB-2795	Fabric - Scaling - Profile Requirements: Refreshing page with new values causes \"Invalid argument\" error in IE11
ENTESB-2797	Fabric - Scaling - SSH Configuration, Docker Configuration: Dragging tags causes popup errors in IE11
ENTESB-2798	Fabric - Scaling - Status: Change mouse pointer image to \"hand\" when over profile name
ENTESB-2806	Add Dependencies to Profile Dialog: Clicking on a profile name loads a profile page behind the dialog
ENTESB-2812	Fabric - Dashboard: Widgets with diagrams are zoomed out in IE11
ENTESB-2814	Fabric - Dashboard: Container detail widget has too large-scaled images
ENTESB-2841	ActiveMQ - Durable Subscribers: Delete button becomes inactive forever after subscriber deleted
ENTESB-2842	Unable to update Pax Web properties from Hawtio
ENTESB-2864	Connect: It's possible to connect to 8181 with random username and password and path when jetty runs on 9181

Issue	Description
ENTESB-2868	Dashboard - Manage: Bad mouse interaction with rename-dashboard box in Firefox
ENTESB-2869	Dashboard: Logs widget has only several rows - short scrollbar
ENTESB-2875	OSGi - Configuration: Creating new configuration with existing name replaces existing configuration
ENTESB-2878	OSGi - Bundles: ActiveMQ checkbox does nothing
ENTESB-2888	[Hawt.io] Add version select to MQ tab
ENTESB-2909	Editing files in the hawtio wiki which have a long file path causes first line to be obscured by menu bar
ENTESB-2926	\\"Declarative Services\\" Hawtio page does not auto-refresh
ENTESB-2974	[OSE][6.2]The button of 'start' is grey when moving cursor on the \\"stopped\\" container
ENTESB-2977	Hawt.IO quartz plugin stops working in Fuse 6.1.1
ENTESB-3009	Cannot filter messages - Windows + Firefox
ENTESB-3022	Fabric - Services - Profiles: one container is listed in multiple versions of the same profile
ENTESB-3029	Fabric - Services - MQ: Too large broker image
ENTESB-3084	Fabric - Wiki - Camel editor: Missing Canvas and Tree tabs when editor first loaded
ENTESB-3088	Fabric - SSH Configuration,Docker Configuration: Limit port value to 65535
ENTESB-3111	Dashboard : \\"Add view to dashboard\\" link is clickable if disabled
ENTESB-3128	Camel: \\"Rest Services\\" page scrolls down periodically
ENTESB-3154	More generic solution for ENTESB-2418
ENTESB-3183	Camel: \\"Show this view in full screen\\" action doesn't work always correctly
ENTESB-3207	Fabric - Container - ActiveMQ, Camel, JMX Attributes: Second opening of Attribute detail dialog causes \\"Error: Invalid Argument\\"

Issue	Description
ENTESB-3215	IOException after uninstallation of a bundle in hawtio
ENTESB-3253	ActiveMQ: Message lost when moving from and to the same queue
ENTESB-3260	ActiveMQ - queue - Browse: Checkbox for all messages stays checked even if some messages don't
ENTESB-3266	Duplicate labels in JMX Property dialog
ENTESB-3287	Health: Too long text rows hidden behind the edge of a widget
ENTESB-3316	Hawtio - fabric/api/wadl - can't invoke REST endpoint
ENTESB-3346	OSGi - Bundles: ActiveMQ checkbox, activemq-karaf is missing
ENTESB-3347	OSGi Bundles - filter ignores checked bundles
ENTESB-3376	Camel - Operations: Text field with operation result is editable
ENTESB-3390	Fabric - Camel - Edit Chart: Each "View chart" click doubles items count in a chart
ENTESB-3419	Fabric - Dashboard: Clicking dashboard in the bar doesn't always open that dashboard
ENTESB-3442	OSGi - Features: Feature install button doesn't have an icon and has wrong dimensions
ENTESB-3444	OSGi - Framework: Dialogs close without change when Enter pressed
ENTESB-3445	Osgi - Framework: Setting Current Framework Start Level <80 causes exception and disables Hawtio
ENTESB-3451	Fabric - Wiki: User is forced to append .txt extension when creating new text file
ENTESB-3502	Loss Of Select Radio Button for Container
ENTESB-3504	The labels for the Actions submenu on the Wiki page disappear on mouse over
ENTESB-3512	In Hawtio, The List of Child Containers, In Containers Page, Is No Longer Indented
ENTESB-3515	Hawtio provides delete button for root container but it cannot be delete
ENTESB-3524	Hawtio does not allow capital letters in profile names

Issue	Description
ENTESB-3526	Declarative service properties not shown in Hawtio console
ENTESB-3568	Hawtio Renders IllegalStateException For A-MQ Slave Broker Attributes
ENTESB-3586	Hawtio sorts containers based on status, then by name
ENTESB-3622	Insufficient role exception should have user friendly error message
ENTESB-3844	Host identification color in Hawtio preferences should not be gray after selection
ENTESB-3872	Main menu - bad readability of items when highlighted on Red Hat theme
ENTESB-3932	Implement administrative audit logging for Fuse
ENTESB-3943	[6.2 P2] After applying patch to Fuse, hawtio says JBoss A-MQ
ENTESB-3956	OSGi: fast switching OSGi tabs causes exception
ENTESB-3957	OSGi - Bundles: Clicking links in a Bundle details page opens the welcome page instead of collapsing a pane content
ENTESB-3958	OSGi - Declarative Services: Links in DS detail go to the welcome page instead of collapsing a pane
ENTESB-3970	Fabric - Profiles: Missing several profile icons
ENTESB-4021	Camel: Route diagram isn't displayed in IE
ENTESB-4055	Improve Hawt.io Performance
ENTESB-4080	Can't delete queue created in Hawtio when name contains \"\":"
ENTESB-4165	ActiveMQ - Chart: PersistenceAdapter tree item has \"View chart' under Chart tab and no data
ENTESB-4166	ActiveMQ - Browse: Checkboxes at message rows works badly after messages list is manually refreshed
ENTESB-4176	Camel - Camel Contexts - Attributes: Wrong ordering of some columns with text
ENTESB-4177	Camel - Camel Contexts - Attributes: Contexts table isn't refreshed after any context deleted
ENTESB-4183	Filtering is case sensitive

Issue	Description
ENTESB-4185	OSGi - Bundles - Table view: Ordering of Version column content is wrong
ENTESB-4186	OSGi - Features: Filtering is case sensitive
ENTESB-4188	OSGi - Features: NullPointerException if all repositories has been removed
ENTESB-4193	OSGi - Services: Bundle (number value) column ordering is lexicographical
ENTESB-4194	OSGi - Declarative Services: Activate button is enabled when Activated service is selected, Deactivate as well
ENTESB-4209	Preferences - Core - Host identification: All colors in color palette are white (IE10)
ENTESB-4219	About page contains unnecessarily 2 same links
ENTESB-4232	Containers - Profiles: Stop, Start, Delete buttons shouldn't be there
ENTESB-4234	Container detail - Provision list: Filtering is case sensitive
ENTESB-4246	Fabric - Wiki: Deleting default version causes exception and disables Wiki page
ENTESB-4253	Fabric - Services - APIs: \"APIs, Container, Version\" table columns allow only one direction of ordering
ENTESB-4256	Fabric - Services - EIPs: Diagram filtering is case sensitive
ENTESB-4331	Cross Site Scripting Vulnerabilities
ENTESB-4350	Camel on EAP - filtering is not working
ENTESB-4352	Camel on EAP - Route Diagram - ns_error_failure
ENTESB-4365	Unnecessary down arrow
ENTESB-4366	Camel on EAP - Routes - Clear messages should delete message
ENTESB-4370	Camel Debug - Create breakpoint button is not intuitive
ENTESB-4372	Cross in filter field is not unified
ENTESB-4375	Fabric - Services - APIs: Quickstarts link points to a blank page
ENTESB-4379	Camel on EAP - Creating endpoint without choosing component
ENTESB-4380	Camel on EAP - checkboxes are not editable

Issue	Description
ENTESB-4381	Camel on EAP - Type converters - Enable/Disable statistics
ENTESB-4385	ContextCreateHandler executed on non camel enabled deployments
ENTESB-4391	Null user on EAP
ENTESB-4404	No automatic reload after Camel Preferences change
ENTESB-4405	Preferences - ID label does not work
ENTESB-4417	Preferences - Server Logs: Log batch size setting doesn't work
ENTESB-4418	Camel - two Create Endpoint buttons do different things
ENTESB-4479	Update Jenkins jobs to use Flaky Test Plugin and Surefire rerun failing tests option
ENTESB-4516	Location of containers is displayed differently under Containers and Services tabs
ENTESB-4575	OSGi - getElementsByTagName error
ENTESB-4581	Fabric8 jvm options for nodes should be applied when node is started using bin/karaf
ENTESB-4599	Hawtio: Update Camel tab for new or removed camel contexts/routes [Fabric mode]
ENTESB-4892	\viewer\" has some rights unexpected in hawtio
ENTESB-4919	Child container does not inherit the location from its parent
ENTESB-4934	Possible to Create Duplicate Container Processes in Hawtio
ENTESB-4937	Hawtio fails to show custom bundles in OSGi default view
ENTESB-4996	Viewer role able to create/delete queues and messages via Hawtio
ENTESB-5013	hawtio jetty threadpools tab shows no data
ENTESB-5059	Fabric - Wiki: Several icons missing in the left navigation with checkboxes
ENTESB-5062	Fabric: missing all tabs except \"Containers\"

Issue	Description
ENTESB-5196	Vanishing items at various menus
ENTESB-5198	Logs: Often Parse error when loading logs
ENTESB-5199	Fabric - Containers - Profiles: Clicking profile's tags causes exception
ENTESB-5200	Fabric - Containers,Services: Remove Stop button when Root container selected
ENTESB-5209	Deleting topics doesn't have a confirmation dialog
ENTESB-5226	Hawtio change behavior of Activate/Deactivate buttons in OSGi/Declarative Services
ENTESB-5244	Fabric - Wiki - Delete version dialog: Change warning for default version
ENTESB-5252	Clicking on Jetty tab shows \"Are you sure?\" screen for a moment
ENTESB-5324	Health tab in Hawtio not being displayed for fabric containers
ENTESB-5441	Scaling Save and Cancel buttons are not disabled after cancel
ENTESB-5479	Fabric should externalize jolokia-access.xml, or provide similar configuration facilities
ENTESB-5525	Fabric - Containers - Location: Filtering field filters containers instead of locations
ENTESB-5566	Multiple roles defined in hawtio.roles property not working in EAP
ENTESB-5593	Move and cancel button have the same behaviour when no destination queue is selected
ENTESB-5596	OSGi - Declarative Services - {{row.id}} shows up
ENTESB-5601	Chosen color of the host identification should be highlighted
ENTESB-5622	User with Read-only privilege can delete/move messages through hawtio
ENTESB-5629	Authenticator.checkIfSubjectHasRequiredRoleOnWebsphere method is missing logic to handle multiple roles
ENTESB-5657	Fabric - Profiles - Deploy: Creating a new container with profiles version other than default fails
ENTESB-5742	hawtio page scaling / status should hide add (+) button if user doesn't have required permissions

Issue	Description
ENTESB-5768	Fabric - Wiki - profile detail: typing in add artifact field is mirrored to another text field
ENTESB-5791	Jolokia - Allow to override all the defaults at startup time
ENTESB-5818	Upgrade httpclient version to latest, at a minimum > 4.3.4
ENTESB-5892	Jetty - Applications: Links in the list are wrong
ENTESB-5901	Wrong links in Help - Health
ENTESB-5902	JMX - Edit chart causes error
ENTESB-5921	There is not Delete button in Hawtio for SSH container
ENTESB-5958	Fabric - Services - Containers: Containers list disappears when a container migrated to a version not containing one of the current profiles
ENTESB-5973	hide history button in Fabric - Wiki for user without required permissions
ENTESB-5976	Hawtio on EAP shows wrong Context Root
ENTESB-6062	Please add an option to acknowledge error messages in HawtIO
ENTESB-6100	Hawtio web console does not handle password well if it contains character ':'
ENTESB-6104	Hawtio upgrade for RH-SSO integration
ENTESB-6133	Flashing login screen in HawtIO
ENTESB-6169	OSGi Bundles: buttons (stop, start, refresh, update, uninstall) do not interact on user click
ENTESB-6248	fabric:version is considered to be digit only and separated by dot
ENTESB-6264	OSGi - Declarative Services - Activate/Deactivate button on service individual page looks like do nothing
ENTESB-6446	[Hawtio] Problem with the display of quotation marks <"> in the Logs.
ENTESB-6470	Make sure Hawtio v2 works on EAP even if RBAC is enabled
ENTESB-6492	Hawtio v2 Help plugin
ENTESB-6685	Hawtio v2 - Merge master (1.x) branch to 2.x

Issue	Description
ENTESB-6692	Hawtio v2 doesn't build in Fuse 7 Jenkins pipeline
ENTESB-6727	Wiki in management console
ENTESB-6737	hawtio overwhelms server when viewing 50-60 queues (activemq tab)
ENTESB-6741	Hawtio v2 - Create Karaf feature for Fuse 7 installation
ENTESB-6844	SpringBoot Starter for starting HawtIO 2
ENTESB-7101	Switch from jetty-maven-plugin to wildfly-maven-plugin for hawtio-war
ENTESB-7394	RBAC - Hierarchical nature of ACLs preventing control of specific mBean operations on broker queues
ENTESB-7433	Test Keycloak integration for hawtio v2
ENTESB-7460	Apply RBAC directive to hawtio v2 html pages
ENTESB-7471	hawtio v2 - concise and consistent naming for logging categories
ENTESB-7480	Allow users to hide Logs tab via RBAC configuration in Hawtio on Karaf
ENTESB-7541	should add hawtio enabled roles in Karaf kit
ENTESB-7564	Hawtio does not work on EAP due to ClassNotFoundException
ENTESB-7695	Hawtio-log-osgi: Avoid using of deprecated methods with Jackson objectMapper
ENTESB-7736	Integrate hawtio-oauth plugin into Fuse 7 standalone
ENTESB-7806	HAWTIO: When you refresh any page, Jmx page appears.
ENTESB-7835	Document hawtio v2 Keycloak integration
ENTESB-7850	Review and remove servlets/filters that are not used in hawtio v2
ENTESB-7933	Hawtio v2: Create Maven BOM
ENTESB-7958	WFLYCTL0013: Operation ("read-resource-description") failed - address after running clean Fuse on EAP
ENTESB-8070	Hawtio: apply Fuse branding to Web console

9.6. FUSE ON OPENSIFT ISSUES RESOLVED IN FUSE 7.0

The following tables list the Fuse on OpenShift issues that are resolved in Fuse 7.0:

- [Table 9.6, “Fabric8 Maven plugin issues resolved”](#)
- [Table 9.7, “Fabric8 version 2 issues resolved”](#)
- [Table 9.8, “Quickstart issues resolved”](#)

Table 9.6. Fabric8 Maven plugin issues resolved

Issue	Description
OSFUSE-264	Karaf based image should have the distro unpacked
OSFUSE-283	f-m-p in openshift mode s2i strategy should use ImageStreamTag instead of DockerImage
OSFUSE-388	[FMP] fabric8:undeploy should delete all resources
OSFUSE-389	f-m-p failure to create deployment-less module
OSFUSE-391	f-m-p annotates services with prometheus.io annotations by default
OSFUSE-403	[FMP] Separating maven goals does not create replication controller
OSFUSE-425	[fabric8-maven-plugin]UnknownFormatConversionException: Conversion = 'P' when launching fabric8-maven-plugin in debug mode
OSFUSE-435	[fabric8-maven-plugin] Cannot use properties to deploy applications
OSFUSE-452	[FMP] Log goal displays just latest pod logs
OSFUSE-455	[FMP] Build failure for wrong image throws exception
OSFUSE-479	f-m-p does not create routes with -Dfabric8.deploy.createExternalUrls=true in quickstarts anymore
OSFUSE-555	f-m-p misleading log warning if oc binary is missing
OSFUSE-579	[FMP] Karaf binary s2i-built image from Windows fails on startup exec: /deployments/karaf/bin/karaf: cannot execute: Permission denied'
OSFUSE-605	[OCP 3.6] f-m-p stuck in waitUntilBuildFinished

Table 9.7. Fabric8 version 2 issues resolved

Issue	Description
ENTESB-7826	Fabric 8 repeating deploy phase for some artifacts
OSFUSE-103	Update the <repositories> section in archetypes with the GA product repositories
OSFUSE-108	quickstart to show how to customize karaf logging levels
OSFUSE-144	FISOE BOM
OSFUSE-168	Investigate if it makes sense to drop full bom from fabric8
OSFUSE-175	fabric8-arquillian should create projects instead of namespaces
OSFUSE-176	OpenShift templates for FIS archetypes contain invalid JSON
OSFUSE-178	camel-amq can't connect to broker
OSFUSE-246	Add support for kubernetes secrets to fabric8-karaf PropertyEvaluator
OSFUSE-248	Add support for kubernetes ConfigMap to fabric8-karaf PropertyEvaluator
OSFUSE-249	Add support for kubernetes ConfigMap to karaf ConfigAdmin
OSFUSE-268	Document the Fabri8 Karaf blueprint and config admin support
OSFUSE-317	f8-arq hangs on \"Waiting for container\" when Completed pods in namespace
OSFUSE-322	KubernetesAssert::deployments fails if test project depends on more than 1 deployments
OSFUSE-324	[fabric8-arquillian] @WithLabel annotation instead of @PodName for @ArquillianResource Pod
OSFUSE-325	JolokiaClients don't pass the openshift user bearer token to the openshift api
OSFUSE-34	[fabric8-maven-plugin] fabric8:clean to clean namespace
OSFUSE-341	fabric8-project-bom-with-platform-deps incompatible cdi-api version
OSFUSE-343	Unify fabric8-project-bom-with-platform-deps and spring-cloud-kubernetes-bom-with-platform-deps
OSFUSE-393	fabric8-karaf-checks misspelled method name in HealthChecker interface
OSFUSE-447	BOM files should use properties for defining the version of each artifact

Issue	Description
OSFUSE-46	Fabric8 Components Agent/APMAgent
OSFUSE-47	general Karaf readiness probe for Karaf template and quickstarts
OSFUSE-486	f8-arq doesn't use openshift default route subdomain when creating routes
OSFUSE-487	f8-arq env.dependencies aren't being created
OSFUSE-488	f8-arq env.dependencies fails to parse multiple whitespace-separated files
OSFUSE-499	[f8-arq] io.fabric8.utils.MultiException: Error while cleaning up session
OSFUSE-5	fabric8:apply should behave as \"oc expose\" if no fabric8.domain property nor \$KUBERNETES_DOMAIN specified
OSFUSE-507	Please clarify support for updating Fuse version in Karaf projects
OSFUSE-527	Single FIS Spring Boot BOM
OSFUSE-534	fabric8-arquillian should load the ./target/*-is.yaml files if in openshift mode
OSFUSE-56	fabric8:json ignores -Ddocker.image passed on mvn command line
OSFUSE-577	Upgrade Jolokia to 1.3.6
OSFUSE-619	SB apps have shrinkwrap jars in them
OSFUSE-665	Enhance fabric8-karaf-cm configadmin bridge filters to operate as OR as well as AND
OSFUSE-77	Add OpenShift template definitions for quickstarts
OSFUSE-78	Karaf cxf-rest quickstart causes NPE after upgrading to use Swagger2

Table 9.8. Quickstart issues resolved

Issue	Description
OSFUSE-545	Archetypes don't contain configuration/settings.xml
OSFUSE-567	Provides consistent archetype names for quickstarts

CHAPTER 10. SUPPORTED CONFIGURATIONS

10.1. INFORMATION ON THE CUSTOMER PORTAL

For information about supported configurations, standards, and components in version 7.0, see the following Customer Portal articles:

- [Red Hat JBoss Fuse Supported Configurations](#)
- [Red Hat JBoss Fuse Supported Standards](#)
- [Red Hat JBoss Fuse Component Details](#)