



Red Hat JBoss Fuse 6.1

JON Performance Metrics Reference

Fuse Plugin Pack for JBoss ON

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Fuse Plugin Pack for JBoss ON

JBoss A-MQ Docs Team

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Abstract

This guide describes the information you can collect about your Fuse managed resources and then display it in JBoss Operation Network.

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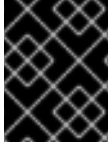
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CHAPTER 1. MONITORING FUSE RESOURCES

Abstract

Using Red Hat JBoss Operations Network (JON), you can discover, import, and monitor Red Hat JBoss Fuse resources.



IMPORTANT

The JBoss ON Plugin Pack for Fuse is not installed with the JON base distribution. You must download and install it separately after you have installed the JON base distribution.

To install the **JBoss ON Plugin Pack for JBoss Fuse**:

1. Navigate to the Red Hat [Customer Portal>Downloads>JBoss Enterprise Middleware>Downloads](#) page.
2. Select JBoss ON for Fuse under **FuseSource** in the sidebar menu.
3. Click **Download** next to JBoss ON 3.1.2 Plugin Pack for JBoss Fuse **6.1.0**.
4. Unzip the plugin package (***JBoss-Fuse-6.1.0/jon-plugin-pack-fuse-3.1.2.GA.zip***) in the ***/installDir/server/*** directory.
5. Install the jar files in one of two ways:

- Hot Deploy

Copy the unpacked jar files into the JON ***/installDir/server/plugins/*** directory. For details, see the [JBoss Operations Network Installation Guide](#).

- JON Server UI

For details, see the [JBoss Operations Network Installation Guide](#), or watch the video [Installing JBoss Operations Network - Part 4, Installing JON Agent Plugins](#).

CHAPTER 2. JBOSS ON MANAGED FUSE RESOURCES

OVERVIEW

Metrics are collected for managed resources that are deployed in Red Hat JBoss Fuse.

- Apache ActiveMQ managed resources
- Apache Camel managed resources
- Apache CXF managed resources
- Apache ServiceMix 3.x managed resources
- Apache ServiceMix 4.x managed resources
- JBoss Fuse managed resources
- Fuse Fabric managed resources



NOTE

This guide describes the metrics collected on Apache Camel, Apache CXF, Apache ServiceMix x.x, JBoss Fuse, and Fuse Fabric managed resources only. The Performance Metrics Reference for Red Hat JBoss A-MQ describes the metrics collected on Apache ActiveMQ-managed resources.



IMPORTANT

Newly added resources, such as ActiveMQ queues and topics, will not appear in JON's list of resources until the JON agent discovers and adds them into inventory. By default, the agent scans for services at twenty-four hour intervals, but you can easily change the default interval either through the JON console or by resetting it in the agent's configuration file. For details, see *Setting Discovery Scan Intervals* in the *Configuring JBoss ON Servers and Agents* guide at <https://access.redhat.com/site/documentation/>.





Based on a managed resource's metrics, you can invoke Control Operations on the resource to avoid or correct throughput and performance problems.

AVAILABILITY STATUS

For all JBoss Fuse managed resources, this metric is of category Availability and of measurement type Dynamic. It indicates the availability status of a resource during a given time slice.

Table 2.1. Availability Indicators

Icon	State	Description
	Available (Up)	Resource is running and responding to availability checks.

Icon	State	Description
	Down	Resource is not responding to availability checks.
	Unknown	The agent has no record of the resource's state. This could be due to the resource having been newly added to inventory, so has not yet been checked for availability. Or it could be that the agent is down.
	Disabled	The resource has been administratively marked as unavailable. In reality, the resource could be running or stopped. When a resource is disabled, the server ignores availability reports from the agent to prevent unnecessary alerts triggered by known down (or cycling) states.
	Mixed (resource groups only)	Members in a resource group have different availability states.

PER MINUTE METRICS

Because metrics of type Trends Up and category Throughput continuously increase, the rate of change becomes more important to track than the total number of exchanges. So JBoss ON automatically calculates and creates a secondary Per Minute metric for many of these type of exchanges. By default, the Per Minute metrics, rather than their counterparts, are enabled and charted.

REFERENCING PROPERTIES IN DYNAMIC GROUP DEFINITION EXPRESSIONS

To reference configuration properties and traits in Dynamic Group Definition expressions, you must use the item's internal name.

CHAPTER 3. APACHE CAMEL MANAGED RESOURCES

3.1. OVERVIEW

Apache Camel metrics are collected for routes that are deployed in Red Hat JBoss ON managed platforms. Based on a resource's metrics, you can invoke Control Operations on the resource to avoid or correct throughput and performance problems.

3.2. AGENT METRIC COLLECTORS

The main service entries, which collect the required metrics, are:

- Camel Context
- Camel Component
- Camel Endpoint
- Camel Route
- Camel Processor



NOTE

By default, Availability status is collected on all Camel services. Only the Camel Route and Camel Processor services collect additional metrics.

3.3. CAMEL CONTEXT SERVICE

Overview

Description:	Camel Context
Singleton:	no
Plugin:	Camel

Parent Resource Types

- JMX Server Platform
- Servicemix3 Server Platform
- Servicemix4 Server Platform
- Fabric Container Platform
- JBoss Fuse Container Platform
- JBossAS Server Platform

Child Resource Types

- [Section 3.4, “Camel Component Service”](#)
- [Section 3.5, “Camel Endpoint Service”](#)
- [Section 3.7, “Camel Route Service”](#)
- [Section 3.6, “Camel Processor Service”](#)

Connection Properties



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Name	Description	Required	Internal Name
Camel Id	The name of the Camel component	yes	CamelId
Camel Version	The Camel version	yes	CamelVersion
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Context	The name of the Camel Context	yes	context
Name	Name	yes	name

Metrics

none

Configuration Properties

none

Operations

You can invoke control operations to avoid or correct throughput and performance problems.

Name	Description
start	The start operation starts up the selected camel context.
stop	The stop operation stops the selected camel context immediately.
suspend	The suspend operation pauses the routing of messages and preserves the state of the route, after the completion of all inflight exchanges.
resume	The resume operation resumes the processing of messages after a call to suspend.

Package Types

none

3.4. CAMEL COMPONENT SERVICE

Overview

Description:	Camel Component
Singleton:	no
Plugin:	Camel

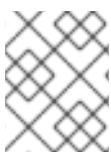
Parent Resource Types

- [Section 3.3, “Camel Context Service”](#)

Child Resource Types

none

Connection Properties



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Name	Description	Required	Internal Name
Component Name	The name of the Camel component	yes	ComponentName
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Name	yes	name

Metrics

none

Configuration Properties

none

Operations

none

Package Types

none

3.5. CAMEL ENDPOINT SERVICE

Overview

Description:	Camel Endpoint
Singleton:	no
Plugin:	Camel

Parent Resource Type

- [Section 3.3, “Camel Context Service”](#)

Child Resource Types

none

Connection Properties



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Name	Description	Required	Internal Name
Endpoint Uri	The uri of the Camel consumer endpoint	yes	EndpointUri
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Name	yes	name

Metrics

none

Configuration Properties

none

Operations

none

Package Types

none

3.6. CAMEL PROCESSOR SERVICE

Overview

Description:	Camel Processor
Singleton:	no
Plugin:	Camel

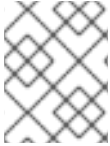
Parent Resource Types

- [Section 3.3, “Camel Context Service”](#)

Child Resource Types

none

Connection Properties



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Name	Description	Required	Internal Name
Route Id	The name of the Camel route	yes	RouteId
Processor Id	The name of the processor in the Camel Route	yes	ProcessorId
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Name	yes	name

Metrics



NOTE

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Name	Type	Description	Internal Name
Exchanges Completed	measurement	Indicates the total number of exchanges the selected processor has processed successfully since processor start-up or the last reset operation.	ExchangesComple

Name	Type	Description	Internal Name
Exchanges Completed Per Minute	measurement	Indicates the total number of exchanges the selected processor has processed successfully per minute since processor start-up or the last reset operation.	ExchangesCompl
Exchanges Failed	measurement	Indicates the total number of exchanges that the selected processor has failed to process since processor start-up or the last reset operation.	ExchangesFailed
Exchanges Failed Per Minute	measurement	Indicates the total number of exchanges that the selected processor has failed to process per minute since processor start-up or the last reset operation.	ExchangesFailed
Exchanges Total	measurement	Indicates the total number of exchanges, passed or failed, that the selected processor has processed since route start-up or the last reset operation.	ExchangesTotal
Exchanges Total Per Minute	measurement	Indicates the total number of exchanges, passed or failed, that the selected processor has processed per minute since route start-up or the last reset operation.	ExchangesTotal
Min Processing Time	measurement	Indicates the shortest time, in milliseconds, to process an exchange since processor start-up or the last reset operation.	MinProcessingTir
Mean Processing Time	measurement	Indicates the average processing time, in milliseconds, for all exchanges processed since processor start-up or the last reset operation.	MeanProcessingT
Max Processing Time	measurement	Indicates the longest time, in milliseconds, to process an exchange since processor start-up or the last reset operation.	MaxProcessingTir
Total Processing Time	measurement	Indicates the total processing time, in milliseconds, of all exchanges processed since processor start-up or the last reset operation.	TotalProcessingTi

Name	Type	Description	Internal Name
Last Processing Time	measurement	Indicates the time, in milliseconds, it took the selected processor to process the last exchange.	LastProcessingTir

Configuration Properties

none

Operations

You can invoke control operations to avoid or correct throughput and performance problems.

Name	Description
reset	The reset operation immediately clears all counters, thus all statistics, for the specified processor.
start	The start operation starts up the selected processor and all of its services.
stop	The stop operation immediately stops the selected processor.

Package Types

none

3.7. CAMEL ROUTE SERVICE

Overview

Description:	Camel Route
Singleton:	no
Plugin:	Camel

Parent Resource Types

- [Section 3.3, “Camel Context Service”](#)

Child Resource Types

none

Connection Properties



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Name	Description	Required	Internal Name
Route Id	The name of the Camel route	yes	RouteId
Endpoint Uri	The uri of the consumer endpoint in the Camel route	yes	EndpointUri
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Name	yes	name

Metrics



NOTE

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Name	Type	Description	Internal Name
Exchanges Completed	measurement	Indicates the total number of exchanges the route has processed successfully since route start-up or the last reset operation.	ExchangesCompl
Exchanges Completed Per Minute	measurement	Indicates the total number of exchanges the route has processed successfully per minute since route start-up or the last reset operation.	ExchangesCompl
Exchanges Failed	measurement	Indicates the total number of exchanges that the route has failed to process since route start-up or the last reset operation.	ExchangesFailed

Name	Type	Description	Internal Name
Exchanges Failed Per Minute	measurement	Indicates the total number of exchanges that the route has failed to process per minute since route start-up or the last reset operation.	ExchangesFailed
Exchanges Total	measurement	Indicates the total number of exchanges, passed or failed, that the route has processed since route start-up or the last reset operation.	ExchangesTotal
Exchanges Total Per Minute	measurement	Indicates the total number of exchanges, passed or failed, that the route has processed per minute since route start-up or the last reset operation.	ExchangesTotal
Inflight Exchanges	measurement	Indicates the number of exchanges currently transiting the route.	InflightExchanges
Inflight Exchanges Per Minute	measurement	Indicates the number of exchanges currently transiting the route per minute.	InflightExchanges
Min Processing Time	measurement	Indicates the shortest time, in milliseconds, to process an exchange since route start-up or the last reset operation.	MinProcessingTir
Mean Processing Time	measurement	Indicates the average processing time, in milliseconds, for all exchanges processed since route start-up or the last reset operation.	MeanProcessingT
Max Processing Time	measurement	Indicates the longest time, in milliseconds, to process an exchange since route start-up or the last reset operation.	MaxProcessingTir
Total ProcessingTime	measurement	Indicates the total processing time, in milliseconds, of all exchanges processed since route start-up or the last reset operation.	TotalProcessingTi
Last Processing Time	measurement	Indicates the time, in milliseconds, it took the route to process the last exchange.	LastProcessingTir



NOTE

All **Exchanges*** metrics are of measurement type Trends Up and category Throughput. Because Trends Up metrics continuously increase, the rate of change becomes more important to track than the total number of exchanges, so JBoss ON automatically calculates and creates a secondary Per Minute metric for each **Exchanges*** metric. By default, the Per Minute metrics, rather than their counterparts, are enabled and charted.

Configuration Properties

none

Operations

You can invoke control operations to avoid or correct throughput and performance problems.

Name	Description
reset	The reset operation immediately clears all counters, thus all statistics, for the specified route.
shutdown	The shutdown operation immediately stops and shuts down the selected route, pending the completion of all inflight exchanges.
start	The start operation starts up the selected route, including all of its processors and services.
stop	The stop operation immediately stops the selected route, pending the completion of all pending inflight exchanges.

Package Types

none

CHAPTER 4. APACHE CXF MANAGED RESOURCES

4.1. OVERVIEW

Apache CXF metrics are collected for web services that are deployed in Red Hat JBoss ON managed platforms. Based on a resource's metrics, you can invoke Control Operations on the resource to avoid or correct throughput and performance problems.

4.2. AGENT METRIC COLLECTORS

The main service entries, which collect the required metrics, are:

- CXF Process
- CXF Bus
- CXF Work Queue Manager
- CXF Work Queue
- CXF Endpoint
- CXF Client Operation Counter
- CXF Client Service Counter
- CXF Server Operation Counter
- CXF Server Service Counter



NOTE

By default, Availability status is collected on all CXF services. Only the CXF Client Operation Counter, CXF Client Service Counter, CXF Server Operation Counter, and CXF Server Service Counter services collect additional metrics.

4.3. CXF PROCESS SERVER (CXF)

Overview

Description:	CXF Process
Singleton:	no
Plugin:	CXF

Parent Resource Types

- Managed Platforms

Child Resource Types

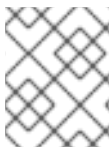
- CXF Process JVM Server

Autodiscovery Process Scans

Name	Query
<code>\${processScan.name}</code>	<pre>process basename match=^java.* arg - Dcxf.home match=.* arg -Dcxf.home match=.* arg -Dcxf.config.file match=.*</pre>

Connection Properties

Name	Description	Required	Internal Name
CXF Home	CXF Process Home Directory	yes	cxf.home
Server Resource Key	Java system property that uniquely identifies this Server	yes	resourceKey
Version File Pattern	File name with Server version	yes	versionFile
Home Directory	System property for home directory	yes	homeProperty
Connector Address	JMX Service URL	no	connectorAddress
Principal	JMX login principal/username	no	principal
Credentials	JMX login credentials/password	no	credentials



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

none

Package Types

none

4.4. BUS SERVICE (CXF)

Overview

Description:	CXF Bus
Singleton:	no
Plugin:	CXF

Parent Resource Types

- [Section 4.3, “CXF Process Server \(CXF\)”](#)
- JMX Server Platform
- [Section 5.3, “Servicemix3 Server \(Servicemix3\)”](#)
- [Section 6.3, “Servicemix4 Server \(Servicemix4\)”](#)
- [Section 8.3, “Fabric Container Server \(Fabric\)”](#)
- [Section 7.3, “JBoss Fuse Container Server \(JBossFuse\)”](#)
- JBossAS Server Platform

Child Resource Types

- [Section 4.5, “WorkQueueManager Service \(CXF\)”](#)

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Bus ID	CXF Bus ID	yes	bus.id

Name	Description	Required	Internal Name
Avoid Custom Object Names	Avoid Custom JMX Object Names	yes	skipUnknownProps

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Start	Start the CXF bus.
Stop	Stop the CXF bus.

Package Types

none

4.5. WORKQUEUEMANAGER SERVICE (CXF)**Overview**

Description:	CXF WorkQueueManager
Singleton:	no
Plugin:	CXF

Parent Resource Types

- [Section 4.4, “Bus Service \(CXF\)”](#)

Child Resource Types

- [Section 4.6, “WorkQueue Service \(CXF\)”](#)

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Bus ID	CXF Bus ID	yes	bus.id
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Avoid Custom Object Names	Avoid Custom JMX Object Names	yes	skipUnknownProps



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Shutdown	Shut down the Work Queue Manager.

Package Types

none

4.6. WORKQUEUE SERVICE (CXF)

Overview

Description:	CXF WorkQueue
--------------	---------------

Singleton:	no
Plugin:	CXF

Parent Resource Types

- [Section 4.5, “WorkQueueManager Service \(CXF\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Avoid Custom Object Names	Avoid Custom JMX Object Names	yes	skipUnknownProps
Bus ID	CXF Bus ID	yes	bus.id
Name	Workqueue Name	yes	name



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

none

Package Types

none

4.7. CXF ENDPOINT SERVICE (CXF)

Overview

Description:	CXF Endpoint
Singleton:	no
Plugin:	CXF

Parent Resource Types

- [Section 4.3, “CXF Process Server \(CXF\)”](#)
- JMX Server Platform
- [Section 5.3, “Servicemix3 Server \(Servicemix3\)”](#)
- [Section 6.3, “Servicemix4 Server \(Servicemix4\)”](#)
- [Section 8.3, “Fabric Container Server \(Fabric\)”](#)
- [Section 7.3, “JBoss Fuse Container Server \(JBossFuse\)”](#)
- JBossAS_Server_Platform

Child Resource Types

- [Section 4.9, “ClientOperationCounter Service \(CXF\)”](#)
- [Section 4.8, “ClientServiceCounter Service \(CXF\)”](#)
- [Section 4.11, “ServerOperationCounter Service \(CXF\)”](#)
- [Section 4.10, “ServerServiceCounter Service \(CXF\)”](#)

Connection Properties

Name	Description	Required	Internal Name
Address	Endpoint Address	no	Address
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate

Name	Description	Required	Internal Name
Bus ID	CXF Bus ID	yes	bus.id
Avoid Custom Object Names	Avoid Custom JMX Object Names	yes	skipUnknownProps
Service	Service QName	yes	service
Port	Port Name	yes	port

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Start	Start a CXF endpoint.
Stop	Stop a CXF endpoint.

Package Types

none

4.8. CLIENTSERVICECOUNTER SERVICE (CXF)**Overview**

Description:	CXF Client Service Counter
Singleton:	no
Plugin:	CXF

Parent Resource Types

- [Section 4.7, “CXF Endpoint Service \(CXF\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Avoid Custom Object Names	Avoid Custom JMX Object Names	yes	skipUnknownProps



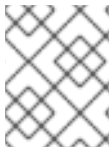
NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
Average Response Time	measurement	Average Response Time	AvgResponseTime
Min Response Time	measurement	Minimum Response Time	MinResponseTime
Max Response Time	measurement	Maximum Response Time	MaxResponseTime
Invocation Count	measurement	Number of Operation invocations	NumInvocations
Invocation Count per Minute	measurement	Number of Operation invocations per minute	NumInvocations
Checked Application Faults	measurement	Number of checked application faults thrown	NumCheckedApplicationFaul
Checked Application Faults per Minute	measurement	Number of checked application faults thrown per minute	NumCheckedApplicationFaul

Name	Type	Description	Internal Name
UnChecked Application Faults	measurement	Number of unchecked application faults thrown	NumUnCheckedApplicationF
UnChecked Application Faults per Minute	measurement	Number of unchecked application faults thrown per minute	NumUnCheckedApplicationF
Logical Runtime Faults	measurement	Number of logical runtime faults thrown	NumLogicalRuntimeFaults
Logical Runtime Faults per Minute	measurement	Number of logical runtime faults thrown per minute	NumLogicalRuntimeFaults
Runtime Faults	measurement	Number of runtime faults thrown	NumRuntimeFaults
Runtime Faults per Minute	measurement	Number of runtime faults thrown per minute	NumRuntimeFaults
Total Handling Time	measurement	Total processing time	TotalHandlingTime
Total Handling Time per Minute	measurement	Total processing time per minute	TotalHandlingTime

**NOTE**

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

none

Package Types

none

4.9. CLIENTOPERATIONCOUNTER SERVICE (CXF)**Overview**

Description:	CXF Client Operation Counter
--------------	------------------------------

Singleton:	no
Plugin:	CXF

Parent Resource Types

- [Section 4.7, “CXF Endpoint Service \(CXF\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Operation	Operation Name	yes	operation
Avoid Custom Object Names	Avoid Custom JMX Object Names	yes	skipUnknownProps



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
Average Response Time	measurement	Average Response Time	AvgResponseTime
Min Response Time	measurement	Minimum Response Time	MinResponseTime
Max Response Time	measurement	Maximum Response Time	MaxResponseTime
Invocation Count	measurement	Number of Operation invocations	NumInvocations

Name	Type	Description	Internal Name
Invocation Count per Minute	measurement	Number of Operation invocations per minute	NumInvocations
Checked Application Faults	measurement	Number of checked application faults thrown	NumCheckedApplicationFaults
Checked Application Faults per Minute	measurement	Number of checked application faults thrown per minute	NumCheckedApplicationFaults
UnChecked Application Faults	measurement	Number of unchecked application faults thrown	NumUnCheckedApplicationFaults
UnChecked Application Faults per Minute	measurement	Number of unchecked application faults thrown per minute	NumUnCheckedApplicationFaults
Logical Runtime Faults	measurement	Number of logical runtime faults thrown	NumLogicalRuntimeFaults
Logical Runtime Faults per Minute	measurement	Number of logical runtime faults thrown per minute	NumLogicalRuntimeFaults
Runtime Faults	measurement	Number of runtime faults thrown	NumRuntimeFaults
Runtime Faults per Minute	measurement	Number of runtime faults thrown per minute	NumRuntimeFaults
Total Handling Time	measurement	Total processing time	TotalHandlingTime
Total Handling Time per Minute	measurement	Total processing time per minute	TotalHandlingTime

**NOTE**

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

none

Package Types

none

4.10. SERVERSERVICECOUNTER SERVICE (CXF)

Overview

Description:	CXF Server Service Counter
Singleton:	no
Plugin:	CXF

Parent Resource Types

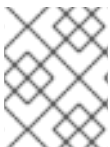
- [Section 4.7, “CXF Endpoint Service \(CXF\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Avoid Custom Object Names	Avoid Custom JMX Object Names	yes	skipUnknownProps



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
Average Response Time	measurement	Average Response Time	AvgResponseTime

Name	Type	Description	Internal Name
Min Response Time	measurement	Minimum Response Time	MinResponseTime
Max Response Time	measurement	Maximum Response Time	MaxResponseTime
Invocation Count	measurement	Number of Operation invocations	NumInvocations
Invocation Count per Minute	measurement	Number of Operation invocations per minute	NumInvocations
Checked Application Faults	measurement	Number of checked application faults thrown	NumCheckedApplicationFaults
Checked Application Faults per Minute	measurement	Number of checked application faults thrown per minute	NumCheckedApplicationFaults
UnChecked Application Faults	measurement	Number of unchecked application faults thrown	NumUnCheckedApplicationFaults
UnChecked Application Faults per Minute	measurement	Number of unchecked application faults thrown per minute	NumUnCheckedApplicationFaults
Logical Runtime Faults	measurement	Number of logical runtime faults thrown	NumLogicalRuntimeFaults
Logical Runtime Faults per Minute	measurement	Number of logical runtime faults thrown per minute	NumLogicalRuntimeFaults
Runtime Faults	measurement	Number of runtime faults thrown	NumRuntimeFaults
Runtime Faults per Minute	measurement	Number of runtime faults thrown per minute	NumRuntimeFaults
Total Handling Time	measurement	Total processing time	TotalHandlingTime
Total Handling Time per Minute	measurement	Total processing time per minute	TotalHandlingTime

**NOTE**

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

none

Package Types

none

4.11. SERVEROPERATIONCOUNTER SERVICE (CXF)**Overview**

Description:	CXF Server Operation Counter
Singleton:	no
Plugin:	CXF

Parent Resource Types

- [Section 4.7, “CXF Endpoint Service \(CXF\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Operation	Operation Name	yes	operation

Name	Description	Required	Internal Name
Avoid Custom Object Names	Avoid Custom JMX Object Names	yes	skipUnknownProps

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
Average Response Time	measurement	Average Response Time	AvgResponseTime
Min Response Time	measurement	Minimum Response Time	MinResponseTime
Max Response Time	measurement	Maximum Response Time	MaxResponseTime
Invocation Count	measurement	Number of Operation invocations	NumInvocations
Invocation Count per Minute	measurement	Number of Operation invocations per minute	NumInvocations
Checked Application Faults	measurement	Number of checked application faults thrown	NumCheckedApplicationFaults
Checked Application Faults per Minute	measurement	Number of checked application faults thrown per minute	NumCheckedApplicationFaults
UnChecked Application Faults	measurement	Number of unchecked application faults thrown	NumUnCheckedApplicationFaults
UnChecked Application Faults per Minute	measurement	Number of unchecked application faults thrown per minute	NumUnCheckedApplicationFaults
Logical Runtime Faults	measurement	Number of logical runtime faults thrown	NumLogicalRuntimeFaults
Logical Runtime Faults per Minute	measurement	Number of logical runtime faults thrown per minute	NumLogicalRuntimeFaults

Name	Type	Description	Internal Name
Runtime Faults	measurement	Number of runtime faults thrown	NumRuntimeFaults
Runtime Faults per Minute	measurement	Number of runtime faults thrown per minute	NumRuntimeFaults
Total Handling Time	measurement	Total processing time	TotalHandlingTime
Total Handling Time per Minute	measurement	Total processing time per minute	TotalHandlingTime

**NOTE**

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

none

Package Types

none

CHAPTER 5. APACHE SERVICEMIX3 MANAGED RESOURCES

5.1. OVERVIEW

Apache ServiceMix3 metrics are collected for JBoss ON managed ServiceMix 3.x platforms. Based on a resource's metrics, you can invoke Control Operations on the resource to avoid or correct throughput and performance problems.

5.2. AGENT METRIC COLLECTORS

The main service entries, which collect the required metrics, are:

- ServiceMix3 Server
- ServiceMix3 Container
- ServiceMix3 Component
- ServiceMix3 Endpoint
- ServiceMix3 JBI Admin Commands
- ServiceMix3 Service Assembly
- ServiceMix3 Shared Library



NOTE

By default, Availability status is collected on all ServiceMix3 services. Only the ServiceMix3 Component and Endpoint services collect additional metrics.

5.3. SERVICEMIX3 SERVER (SERVICEMIX3)

Overview

Description:	ServiceMix3 Server Process
Singleton:	no
Plugin:	ServiceMix3

Parent Resource Types

- Managed Platforms

Child Resource Types

- ServiceMix3 Server JVM Server

Autodiscovery Process Scans

Name	Query
<code>\${processScan.name}</code>	<code>process basename match=^java.*,arg - Dservicemix.home match=.*</code>

Connection Properties

Name	Description	Required	Internal Name
Log Event Sources	The list of log files that can be tracked	yes	logEventSources
Servicemix Home	Servicemix Server Home Directory	yes	servicemix.home
Server Resource Key	Java system property that uniquely identifies this Server	yes	resourceKey
Version File Pattern	File name with Server version	yes	versionFile
Home Directory	System property for home directory	yes	homeProperty
Log File	Log File to track	yes	logFile
Connector Address	JMX Service URL	no	connectorAddress
Principal	JMX login principal/username	no	principal
Credentials	JMX login credentials/password	no	credentials



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

none

Package Types

none

5.4. CONTAINER SERVICE (SERVICEMIX3)

Overview

Description:	Servicemix Container
Singleton:	no
Plugin:	Servicemix3

Parent Resource Types

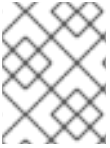
- [Section 5.3, “Servicemix3 Server \(Servicemix3\)”](#)

Child Resource Types

- [Section 5.5, “Component Service \(Servicemix3\)”](#)
- [Section 5.6, “Endpoint Service \(Servicemix3\)”](#)
- [Section 5.7, “JBI Admin Commands Service \(Servicemix3\)”](#)
- [Section 5.8, “Service Assembly Service \(Servicemix3\)”](#)
- [Section 5.9, “Shared Library Service \(Servicemix3\)”](#)

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Container Name	Container Name	yes	containerName

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Start	Start a container.
Stop	Stop a container.
Shut Down	Shut down a container.

Package Types

none

5.5. COMPONENT SERVICE (SERVICEMIX3)**Overview**

Description:	Servicemix Component
Singleton:	no
Plugin:	Servicemix3

Parent Resource Types

- [Section 5.4, “Container Service \(Servicemix3\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Stats Object Name		yes	statsObjectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Component Name	yes	name

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
Inbound Exchange Count	measurement	Count of inbound Exchanges	inboundExchangeCount
Inbound Exchange Count per Minute	measurement	Count of inbound Exchanges per minute	inboundExchangeCount
Inbound Exchange Rate	measurement	Rate of inbound Exchanges per second	inboundExchangeRate
Outbound Exchange Count	measurement	Count of outbound Exchanges	outboundExchangeCount
Outbound Exchange Count per Minute	measurement	Count of outbound Exchanges per minute	outboundExchangeCount
Outbound Exchange Rate	measurement	Rate of outbound Exchanges per second	outboundExchangeRate
Inbound Queue Size	measurement	Size of the inbound Queue	inboundQueueSize

**NOTE**

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

Name	Description
Start	Start a component.
Stop	Stop a component.
Shut Down	Shut down a component.

Package Types

none

5.6. ENDPOINT SERVICE (SERVICEMIX3)

Overview

Description:	Servicemix Endpoint
Singleton:	no
Plugin:	Servicemix3

Parent Resource Types

- [Section 5.4, “Container Service \(Servicemix3\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate

Name	Description	Required	Internal Name
Name	Endpoint Name	yes	name

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
Inbound Exchange Count	measurement	Count of inbound Exchanges	inboundExchangeCount
Inbound Exchange Count per Minute	measurement	Count of inbound Exchanges per minute	inboundExchangeCount
Inbound Exchange Rate	measurement	Rate of inbound Exchanges per second	inboundExchangeRate
Outbound Exchange Count	measurement	Count of outbound Exchanges	outboundExchangeCount
Outbound Exchange Count per Minute	measurement	Count of outbound Exchanges per minute	outboundExchangeCount
Outbound Exchange Rate	measurement	Rate of outbound Exchanges per second	outboundExchangeRate

**NOTE**

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

none

Package Types

none

5.7. JBI ADMIN COMMANDS SERVICE (SERVICEMIX3)

Overview

Description:	Servicemix JBI Admin Commands Service
Singleton:	no
Plugin:	Servicemix3

Parent Resource Types

- [Section 5.4, “Container Service \(Servicemix3\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Uninstall Component	Uninstall a component.

Name	Description
List Components	List all installed components.
Start Component	Start a component.
Stop Component	Stop a component.
Shutdown Component	Shut down a component.
Install Shared Library	Install a shared library.
Uninstall Shared Library	Uninstall a shared library.
List Shared Libraries	List all installed shared libraries.
Deploy Service Assembly	Deploy a service assembly.
Undeploy Service Assembly	Undeploy a service assembly.
Start Service Assembly	Start a service assembly.
Stop Service Assembly	Stop a service assembly.
Shutdown Service Assembly	Shut down a service assembly.
List Service Assemblies	List all installed shared libraries.

Package Types

none

5.8. SERVICE ASSEMBLY SERVICE (SERVICEMIX3)

Overview

Description:	Servicemix Service Assembly
Singleton:	no
Plugin:	Servicemix3

Parent Resource Types

- [Section 5.4, “Container Service \(Servicemix3\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Service Assembly Name	yes	name



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Start	Start the service assembly.
Stop	Stop the service assembly.
Shut Down	Shut down the service assembly.

Package Types

none

5.9. SHARED LIBRARY SERVICE (SERVICEMIX3)

Overview

Description:	Servicemix Shared Library
Singleton:	no
Plugin:	Servicemix3

Parent Resource Types

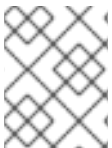
- [Section 5.4, “Container Service \(Servicemix3\)”](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Shared Library Name	yes	name



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

none

Package Types

none

CHAPTER 6. APACHE SERVICEMIX4 MANAGED RESOURCES

6.1. OVERVIEW

Apache ServiceMix4 metrics are collected for JBoss ON managed ServiceMix 4.x Server platforms. Based on a resource's metrics, you can invoke Control Operations on the resource to avoid or correct throughput and performance problems.

6.2. AGENT METRIC COLLECTORS

The main service entries, which collect the required metrics, are:

- ServiceMix4 Server
- Apache Karaf Admin
- Apache Karaf Features
- OSGi Compendium Configuration Management
- OSGi Compendium Permission Management
- OSGi Core Bundle State
- OSGi Core Framework
- OSGi Core Package State
- OSGi Core Service State
- ServiceMix4 Shared Library
- ServiceMix4 Component
- ServiceMix4 Service Assembly
- ServiceMix4 Endpoint
- ServiceMix4 JBI Admin Commands



NOTE

By default, Availability status is collected on all ServiceMix4 services. Only the ServiceMix4 OSGi Core FrameWork and Endponit services collect additional metrics.

6.3. SERVICEMIX4 SERVER (SERVICEMIX4)

Overview

Description:	ServiceMix4 Server Process
Singleton:	no

Plugin:	Servicemix4
---------	-------------

Parent Resource Types

- Managed Platforms

Child Resource Types

- Servicemix4 Server JVM Server

Autodiscovery Process Scans

Name	Query
<code>\${processScan.name}</code>	<pre>process basename match=^java.*,arg - Dkaraf.home match=.*,arg - Dkaraf.base match=.*,arg * match=org\.apache\.karaf \.main shell\.wrapper)\.Main</pre>

Connection Properties

Name	Description	Required	Internal Name
Log Event Sources	The list of log files that can be tracked	yes	logEventSources
Servicemix Home	Servicemix Server Home Directory	yes	karaf.home
Servicemix Base	Servicemix Server Base Directory	yes	karaf.base
Server Resource Key	Java system property that uniquely identifies this Server	yes	resourceKey
Version File Pattern	File name with Server version	yes	versionFile
Home Directory	System property for home directory	yes	homeProperty
Log File	Log File to track	yes	logFile
Connector Address	JMX Service URL	no	connectorAddress

Name	Description	Required	Internal Name
Principal	JMX login principal/username	no	principal
Credentials	JMX login credentials/password	no	credentials

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

none

Package Types

none

6.4. KARAF ADMIN SERVICE (SERVICEMIX4)**Overview**

Description:	Karaf Admin
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Karaf Container Name	yes	name



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Create Instance	Create a Karaf child instance.
Destroy Instance	Destroy a Karaf child instance.
Change Ssh Port	Change the SSH port of a Karaf child instance.
Start Instance	Start a Karaf child instance.
Stop Instance	Stop a Karaf child instance.

Package Types

none

6.5. KARAF FEATURES SERVICE (SERVICEMIX4)

Overview

Description:	Karaf Features
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Karaf Features Name	yes	name



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Add Repository	Add a feature repository.
Uninstall Feature	Uninstall a feature.
Install Feature	Install a feature.
Remove Repository	Remove a feature repository.

Package Types

none

6.6. COMPONENT SERVICE (SERVICEMIX4)

Overview

Description:	Servicemix Component
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

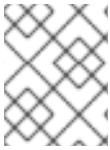
Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate

Name	Description	Required	Internal Name
Name	Component Name	yes	name

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Start	Start a component.
Stop	Stop a component.
Shut Down	Shutdown a component.

Package Types

none

6.7. ENDPOINT SERVICE (SERVICEMIX4)**Overview**

Description:	Servicemix Endpoint
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)

- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Name	Endpoint Name	yes	Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Id	Endpoint Id	yes	id

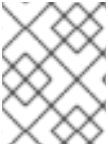


NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
Inbound Exchange Count	measurement	Count of inbound Exchanges	InboundExchangeCount
Inbound Exchange Count per Minute	measurement	Count of inbound Exchanges per minute	InboundExchangeCount
Inbound Exchange Rate	measurement	Rate of inbound Exchanges per second	InboundExchangeRate
Outbound Exchange Count	measurement	Count of outbound Exchanges	OutboundExchangeCount
Outbound Exchange Count per Minute	measurement	Count of outbound Exchanges per minute	OutboundExchangeCount
Outbound Exchange Rate	measurement	Rate of outbound Exchanges per second	OutboundExchangeRate

**NOTE**

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

none

Package Types

none

6.8. JBI ADMIN COMMANDS SERVICE (SERVICEMIX4)**Overview**

Description:	Servicemix JBI Admin Commands Service
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

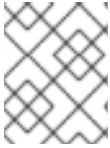
- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Uninstall Component	Uninstall a component.
List Components	List all installed components.
Start Component	Start a component.
Stop Component	Stop a component.
Shutdown Component	Shut down a component.
Install Shared Library	Install a shared library.
Uninstall Shared Library	Uninstall a shared library.
List Shared Libraries	List all installed shared libraries.
Deploy Service Assembly	Deploy a service assembly.
Undeploy Service Assembly	Undeploy a service assembly.
Start Service Assembly	Start a service assembly.
Stop Service Assembly	Stop a service assembly.
Shutdown Service Assembly	Shut down a service assembly.
List Service Assemblies	List all installed service assemblies.

Package Types

none

6.9. SERVICE ASSEMBLY SERVICE (SERVICEMIX4)

Overview

Description:	Servicemix Service Assembly
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Service Assembly Name	yes	name



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Start	Start a service assembly.
Stop	Stop a service assembly.
Shut Down	Shut down a service assembly.

Package Types

none

6.10. SHARED LIBRARY SERVICE (SERVICEMIX4)

Overview

Description:	Servicemix Shared Library
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

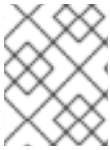
Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
Name	Shared Library Name	yes	name

Name	Description	Required	Internal Name
Version	Shared Library Version	yes	version

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

none

Package Types

none

6.11. OSGI COMPENDIUM CONFIGURATION MANAGEMENT SERVICE (SERVICEMIX4)

Overview

Description:	Osgi Compendium Configuration Management
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
OSGi Version	OSGi Service Version	yes	osgiVersion



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Delete	Delete configuration properties.
Delete For Location	Delete configuration properties for location.
Create Factory Configuration	Create a factory configuration.
Create Factory Configuration For Location	Create a factory configuration for location.
Get Factory Pid	Get a factory PID.
Get Factory Pid For Location	Get the factory PID for location.
Get Bundle Location	Get the location of a bundle.
Set Bundle Location	Set the location of a bundle.
Delete Configurations	Delete configurations.

Package Types

none

6.12. OSGI CORE BUNDLE STATE SERVICE (SERVICEMIX4)

Overview

Description:	Osgi Core Bundle State
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
OSGi Version	OSGi Service Version	yes	osgiVersion



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Get State	Get the state of a bundle.
Get Last Modified	Get the date a bundle was last modified.
Get Symbolic Name	Get the symbolic name of a bundle.
Is Fragment	Discover whether a bundle is a fragment.
Get Start Level	Get the start level of a bundle.
Is Removal Pending	Discover whether removal of a bundle is pending.
Is Required	Discover whether a bundle is required.
Is Persistently Started	Discover whether a bundle is persistently started.

Package Types

none

6.13. OSGI CORE FRAMEWORK SERVICE (SERVICEMIX4)

Overview

Description:	Osgi Core Framework
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
OSGi Version	OSGi Service Version	yes	osgiVersion



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
Initial Bundle Start Level	trait	Feature Initial Bundle Start Level	InitialBundleStartL
Framework Start Level	trait	Feature Framework Start Level	FrameworkStartLe



NOTE

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

Name	Description
Install Bundle	Install a bundle.
Set Bundle Start Level	Set the start level of a bundle.
Uninstall Bundle	Uninstall a bundle.
Update Bundle	Update a bundle.

Name	Description
Resolve Bundle	Resolve a bundle.
Restart Framework	Restart the OSGi framework.
Shutdown Framework	Shut down the OSGi framework.
Start Bundle	Start a bundle.
Stop Bundle	Stop a bundle.
Update Framework	Update the OSGi framework.

Package Types

none

6.14. OSGI CORE PACKAGE STATE SERVICE (SERVICEMIX4)

Overview

Description:	Osgi Core Package State
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName

Name	Description	Required	Internal Name
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
OSGi Version	OSGi Service Version	yes	osgiVersion

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Is Removal Pending	Discover whether removal of a package is pending.

Package Types

none

6.15. OSGI CORE SERVICE STATE SERVICE (SERVICEMIX4)**Overview**

Description:	Osgi Core Service State
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)

- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
OSGi Version	OSGi Service Version	yes	osgiVersion



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

Name	Description
Get Bundle Identifier	Get the identifier of a bundle.

Package Types

none

6.16. OSGI COMPENDIUM PERMISSION MANAGEMENT SERVICE (SERVICEMIX4)

Overview

Description:	Osgi Compendium Permission Management
Singleton:	no
Plugin:	Servicemix4

Parent Resource Types

- [Servicemix4 Server](#)
- [Fabric Container Server](#)
- [JBoss Fuse Container Server](#)

Child Resource Types

none

Connection Properties

Name	Description	Required	Internal Name
Object Name		yes	objectName
Name Template		yes	nameTemplate
Description Template		yes	descriptionTemplate
OSGi Version	OSGi Service Version	yes	osgiVersion



NOTE

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

none

Configuration Properties

none

Operations

none

Package Types

none

CHAPTER 7. JBOSS FUSE MANAGED RESOURCES

7.1. OVERVIEW

JBoss Fuse metrics are collected for Red Hat JBoss Fuse containers.

7.2. AGENT METRIC COLLECTORS

The main service entry, which collects the required metrics, is JBoss Fuse Container.

7.3. JBOSS FUSE CONTAINER SERVER (JBOSSFUSE)

Overview

Description:	JBoss Fuse Container Process
Singleton:	no
Plugin:	JBossFuse

Parent Resource Types

- Managed Platforms

Child Resource Types

- JBoss Fuse Container JVM_Server

Autodiscovery Process Scans

Name	Query
<code>\${processScan.name}</code>	<pre>process basename match=^java.*,arg - Dkaraf.home match=.*,arg - Dkaraf.base match=.*,arg * match=org\.apache\.karaf \.(main shell\.wrapper)\.Main</pre>

Connection Properties

Name	Description	Required	Internal Name
Log Event Sources	The list of log files that can be tracked	yes	logEventSources

Name	Description	Required	Internal Name
JBoss Fuse Container Home	JBoss Fuse Container Home Directory	yes	karaf.home
JBoss Fuse Container Base	JBoss Fuse Container Base Directory	yes	karaf.base
Server Resource Key	Java system property that uniquely identifies this Server	yes	resourceKey
Version File Pattern	File name with Server version	yes	versionFile
Home Directory	System property for home directory	yes	homeProperty
Log File	Log File to track	yes	logFile
Connector Address	JMX Service URL	no	connectorAddress
Principal	JMX login principal/username	no	principal
Credentials	JMX login credentials/password	no	credentials
Fabric Registry URL	URL to use to connect to the Fabric Registry, required for Fabric managed Containers	no	zookeeper.url
Fabric Registry Password	Password to use to connect to the Fabric Registry	no	zookeeper.password
Registry Timeout	Registry connection timeout in Seconds, used for Fabric metadata collection	yes	zookeeper.timeout
JBoss Fuse Container Type	JBoss Fuse Container Type based on underlying product install	yes	container.type
JBoss Fuse Container Name	JBoss Fuse Container name, same as Karaf name	yes	karaf.name

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
JBoss Fuse Container Version	trait	JBoss Fuse Profile Version used by this Container	container.version
JBoss Fuse Profiles	trait	JBoss Fuse Profiles referenced directly by this Container	profiles
JBoss Fuse Parent Profiles	trait	JBoss Fuse parent Profiles indirectly referenced by this Container	parentProfiles
MQ Clusters	trait	JBoss Fuse MQ Clusters where this Container exports ActiveMQ Connection Details	mqClusters

**NOTE**

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

none

Package Types

none

CHAPTER 8. FABRIC MANAGED RESOURCES

8.1. OVERVIEW

Fabric metrics are collected for fabrics deployed in Red Hat JBoss Fuse.

8.2. AGENT METRIC COLLECTORS

The main service entry, which collects the required metrics, is Fabric Container.

8.3. FABRIC CONTAINER SERVER (FABRIC)

Overview

Description:	Fabric Container Process
Singleton:	no
Plugin:	Fabric

Parent Resource Types

- Managed Platforms

Child Resource Types

- Fabric Container JVM Server

Autodiscovery Process Scans

Name	Query
<code>\${processScan.name}</code>	<pre>process basename match=^java.*,arg - Dkaraf.home match=.*,arg - Dkaraf.base match=.*,arg * match=org\.apache\.karaf \.main shell\.wrapper)\.Main</pre>

Connection Properties

Name	Description	Required	Internal Name
Log Event Sources	The list of log files that can be tracked	yes	logEventSources

Name	Description	Required	Internal Name
Fabric Container Home	Fabric Container Home Directory	yes	karaf.home
Fabric Container Base	Fabric Container Base Directory	yes	karaf.base
Server Resource Key	Java system property that uniquely identifies this Server	yes	resourceKey
Version File Pattern	File name with Server version	yes	versionFile
Home Directory	System property for home directory	yes	homeProperty
Log File	Log File to track	yes	logFile
Connector Address	JMX Service URL	no	connectorAddress
Principal	JMX login principal/username	no	principal
Credentials	JMX login credentials/password	no	credentials
Fabric Registry URL	URL to use to connect to the Fabric Registry, required for Fabric managed Containers	no	zookeeper.url
Fabric Registry Password	Password to use to connect to the Fabric Registry	no	zookeeper.password
Registry Timeout	Registry connection timeout in Seconds, used for Fabric metadata collection	yes	zookeeper.timeout
Fuse Container Type	Fuse Container Type based on underlying product install	yes	container.type
Fabric Container Name	Fabric Container name, same as Karaf name	yes	karaf.name

**NOTE**

You must use the internal name to reference Configuration Properties in Dynamic Group Definition expressions.

Metrics

Name	Type	Description	Internal Name
Fabric Container Version	trait	Fabric Profile Version used by this Container	container.version
Fabric Profiles	trait	Fabric Profiles referenced directly by this Container	profiles
Fabric Parent Profiles	trait	Fabric parent Profiles indirectly referenced by this Container	parentProfiles
MQ Clusters	trait	Fabric MQ Clusters where this Container exports ActiveMQ Connection Details	mqClusters

**NOTE**

You must use the internal name to reference Traits in Dynamic Group Definition expressions.

Configuration Properties

none

Operations

none

Package Types

none

CHAPTER 9. FUSE PLUGIN ERRORS AND EXCEPTIONS



NOTE

For all error, warning, and exception messages that do not list a solution or workaround, contact Red Hat Technical Support at <https://access.redhat.com/support/cases/#/case/new>.

9.1. OVERVIEW

The Fuse Plugins for JON components generate error messages and exceptions. This chapter lists and describes the errors and exceptions each component generates.

9.2. ERROR AND WARN MESSAGES

The Red Hat JBoss Fuse Plugins for JON components generate the following error and warning messages:

CuratorFabricRegistryImpl component

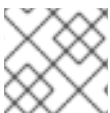


NOTE

JBoss Fuse 6.1. This component implements connections to the Zookeeper registry using Curator.

Message	Description
WARN: Connection state changed to <connectionState>	<p>While reading profiles from Zookeeper, the state of the connection changed to SUSPENDED or to LOST.</p> <p>You can ignore this warning if no ERROR message were generated during the read operation.</p>

FabricContainerDiscoveryComponent component



NOTE

JBoss Fuse 6.x. This component is used for discovering Fabrics.

Message	Description
WARN: Unable to read JMX URL from etc/org.apache.karaf.management.cfg	<p>A JMX URL discovery error occurred. The resource will try to use the default JMX URL, but it could end up connecting to the wrong process if the default URL is incorrect.</p> <p>Fix the resource connections using the JON server console.</p>

Message	Description
WARN: Container uses Fabric Zookeeper registry, using default JMX user	<p>A Zookeeper URL was discovered, and the resource was configured using the default JMX user admin and password admin.</p> <p>If these credentials are incorrect, you must change them in the connection settings using the JON server console.</p>
WARN: Error getting JMX properties from Fabric container: <message>, using default connection properties, <error>	<p>An error occurred while discovering JMX properties in configuration files.</p> <p>If these properties differ from those in the connection settings, you must change the connection settings using the JON server console.</p>
WARN: Looking for Zookeeper.url in data/cache/**/zookeeper.config	<p>This warning occurs during discovery of the root container's Zookeeper URL using the zookeeper.config file.</p> <p>The zookeeper URL will not be discovered if the Fabric is created after container discovery occurs. In that case, you must configure the Zookeeper URL in the connection settings, using the JON server console.</p> <p>Otherwise, you can ignore this warning.</p>
WARN: Error reading <propertiesFile>	<p>An error occurred while reading the specified properties file. Check the file's permissions.</p>
WARN: File <propertiesFile> does not exist	<p>The specified properties file does not exist. This could indicate a potentially corrupt installation of JBoss Fuse 6.x.</p> <p>Reinstall JBoss Fuse 6.x to replace the specified missing or corrupted properties file.</p>

FabricProfileGroupManager component



NOTE

FuseSource 7.x, and JBoss Fuse 6.x. This component is used for discovering fabric profiles.

Message	Description
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Message	Description
WARN: Disconnected from Fabric Registry	<p>The resource was disconnected from the Zookeeper registry. The cause is either a user networking issue or the remote Zookeeper server is down or unreachable.</p> <p>The component reconnects to the Zookeeper registry automatically, so you can typically ignore this warning. However, disconnects can become an issue if they happen too frequently or during profile accesses, causing network connectivity issues for Zookeeper servers.</p> <p>Check your network environment. If the Zookeeper server is up, but unreachable, report the error to Red Hat Technical Support (see Note).</p>

FabricProfileGroupsComponent component



NOTE

JBoss Fuse 6.x and higher. This component is used for discovering profile groups in `server.log`.

Message	Description
WARN: No default property with Registry URL * specified, using defaults: <defaults>	<p>A default registry configuration was not specified using the registry url *, so the server plugin will use the default settings.</p> <p>If the default settings are satisfactory (they can be seen when adding a new registry entry for the server plugin), this error is a non issue. Otherwise, you can add a default entry for the * URI with custom settings.</p>

FuseMBeanDiscoveryComponent component



NOTE

FuseSource7.x, JBoss Fuse 6.x, and ServiceMix 3.x, 4.x. This component is used for discovering Fuse MBeans.

Message	Description
WARN: Required property <name> is missing in Bean <beanName>, ignoring Bean for resource type <resourceType>	<p>The specified bean could not be discovered because a required property is missing.</p> <p>Report the error to Red Hat Technical Support (see Note).</p>

FuseServerComponent component



NOTE

FuseSource7.x, JBoss Fuse 6.x, and ServiceMix 3.x, 4.x. This component is used for connecting to Fuse servers.

Message	Description
WARN: Failed to connect to <resourceType>[<resourceKey>]., <error message>	The specified error occurred when attempting to start the specified resource. Verify JMX connection parameters in JON server console's Connection Settings .
ERROR: Error closing EMS connection: <error>	The specified error occurred when attempting to stop the EMS. Verify JMX connection parameters in JON server console's Connection Settings .

FuseServerDiscoveryComponent component



NOTE

FuseSource7.x, JBoss Fuse 6.x, and ServiceMix 3.x, 4.x. This component is used for discovering Fuse servers.

Message	Description
WARN: Error when trying to discover Fuse Server process [<process> (enable DEBUG for stack trace): <error>	A resource discovery runtime exception occurred. Enable JON agent debug logging and send log with report to Red Hat Technical Support (see Note).
ERROR: Multiple resources with the same key (<duplicateKey>) were discovered—none will be reported to the plugin container! This most likely means that there are multiple java processes running with the same value for the <resourceKeyProperty> system property specified on their command lines. Here is the list of Resources: <duplicate resource list>	Indicates a duplicate resource. This error rarely occurs. Each server resource is required to have a unique identifier (<resourceKey>). This exception occurs when multiple running servers share the same unique identifier (<duplicateKey>). The exception message provides a list of the running servers that share the same identifier (<duplicateKey>). Report the error to Red Hat Technical Support (see Note).

Message	Description
WARN: Ignoring resource <resourceName> due to error: <error message>	<p>The specified error occurred during resource discovery. The specified resource will be ignored due to the error described in the message.</p> <p>Report the error to Red Hat Technical Support (see Note).</p>
WARN: Unable to access <directory>	<p>An error occurred while attempting to read the specified file system.</p> <p>Check user permissions on the JON agent and fix as appropriate.</p>
WARN: Missing property <logFile> in Fuse Server configuration	<p>Indicates a log file property is missing in the plugin configuration. This very rarely occurs.</p> <p>Report the error to Red Hat Technical Support (see Note).</p>

JBossFuseContainerDiscoveryComponent component



NOTE

JBoss Fuse 6.x . This component is used for discovering JBoss Fuse containers.

Message	Description
WARN: Container uses Fabric Zookeeper registry, using default JMX user	<p>A Zookeeper URL was discovered, and the resource was configured using the default JMX user admin and password admin.</p> <p>If these credentials do not match the JON server Connection Settings, change the connection settings to match those of the monitored Fuse container.</p>
WARN: Error getting JMX properties from Fabric container: [<message>], using default connection properties, <error>	<p>The specified error occurred when discovering JMX properties in configuration files.</p> <p>If the configuration file properties do not match the default connection properties, you must change the configuration files to match the connection defaults.</p>
WARN: Error reading <propertiesFile>	<p>An error occurred while attempting to read the specified properties file.</p> <p>Check file permissions and fix as appropriate.</p>

Message	Description
WARN: File <code><propertiesFile></code> does not exist	The specified properties file does not exist. This indicates the possibility of a corrupted installation. Report the error to Red Hat Technical Support (see Note).
WARN: Unable to read JMX URL from <code>etc/org.apache.karaf.management.cfg</code>	A JMX URL discovery error occurred. The resource will try to use the default JMX URL, but it could end up connecting to the wrong process if the default URL is incorrect. Enter the correct JMX URL in the JON server console's Connection Settings .
WARN: Failed to find start script for JBoss Fuse server with command line <code>[<commandLine>]</code>—defaulting 'startScripFile' plugin config prop to <code>[<startScript>]</code>.	The shell script used to start the Fuse server could not be autodiscovered. By default, the script is set to start or start.bat . If this default start method differs from the plugin's default configuration property, you must change the start method in the JON server Connection Settings to start/stop the Fuse server from the JON console.

JvmStatUtility component



NOTE

FuseSource 7.x, JBoss Fuse 6.x, and ServiceMix 3.x, 4.x. This component is used for discovering JVMs.

Message	Description
WARN: JDK does not support <code>jvmstat</code>—cannot discover JVMs using Sun <code>jvmstat</code> API; to fix this, run the RHQ Agent on a Sun JDK.	Auto discovery of jvmstat is supported on Sun JVMs only. Switch to Sun JDK.
WARN: JVM with PID <code>[<pid>]</code> does not support <code>attach-on-demand</code>	The JVM does not support attach using the jvmstat API. Check the JON agent user access permissions, and run the agent using the same user ID.
ERROR: Failed to detach from JVM <code>[<vmid>]</code>. <code><error></code>	The specified error occurred while attempting to detach from the specified process. This rarely occurs. Report the error to Red Hat Technical Support (see Note).

LinkedInFabricRegistryImpl component

**NOTE**

JBoss Fuse 6.x. This component implements connections to the Zookeeper registry using the linkedin-zk library.

Message	Description
WARN: Disconnected from Fabric Registry	<p>Disconnected from the Zookeeper registry while reading profiles from it.</p> <p>This is an issue only if ERROR messages were generated while reading the profiles. However, this warning may indicate there are other network connection issues with the Zookeeper server.</p>

9.3. EXCEPTIONS

The Fuse Plugins for JON components throw the following exceptions:

ActiveMQDestinationComponent component

**NOTE**

JBoss A-MQ standalone. This component is used for connecting to an MQ destination.

Message	Description
Cannot invoke operation [<name>], as we can't connect to the MBean—is it down?	<p>Failure to invoke the specified JMX operation may be due to the failure to connect to the resource.</p> <p>Check whether the server is running.</p>
Missing operation compositeData[] browse([String selector])	<p>The browse operation is not supported.</p> <p>This rarely occurs. Check whether you are using a version of ActiveMQ that supports the browse operation for destinations.</p>

FabricContainerDiscoveryComponent component

**NOTE**

FuseSource 7.x. This component is used for discovering fabric containers.

Message	Description
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Message	Description
Missing Zookeeper library fabric-linkedln-zookeeper*.jar in <karafHome>/system	<p>The specified library is missing from the <karafHome>/system directory.</p> <p>This could indicate a potentially corrupt installation of FuseSource 7.x or JBoss Fuse 6.x that are missing .jar files.</p>
Missing value for property <property> in serviceUrl	<p>The specified JMX URL property is missing from the etc/org.apache.karaf.management.cfg file and the etc/system.properties file.</p> <p>Check whether the properties file has been corrupted.</p>

FabricProfileGroupManager component



NOTE

FuseSource 7.z and JBoss Fuse 6.x. This component is used for managing fabric profile groups.

Message	Description
Error looking up MQ broker properties: <message>	<p>The specified error occurred when reading profile metadata.</p> <p>May indicate there are connection issues with the Zookeeper server.</p>
Error getting Parent profiles for <profileName>: <message>	<p>The specified error occurred when reading profile metadata.</p> <p>May indicate there are connection issues with the Zookeeper server.</p>
Unable to connect to Fabric Registry in <timeout> seconds	<p>The component failed to connect to Zookeeper within the allotted timeout period.</p> <p>May indicate there are connection issues with the Zookeeper server.</p>
Error processing server profile <profile>:<containerVersion>: <message>	<p>The specified error occurred while reading the server profile. The message contains the details.</p>
Unknown metric <metricName> for resource <resourceKey>	<p>Unable to recognize the specified metric. This exception will occur only if the plugin is broken.</p>

Message	Description
Error getting Server info from Fabric Registry: <message>	The specified error occurred when reading server information from Fabric registry. May indicate there are connection issues or a corrupted Zookeeper registry.
Error processing profiles for [<resourceKey>]: <message>	The specified error occurred when processing profiles. The message contains the details.

FabricProfileGroupsComponent component



NOTE

JBoss Fuse 6.x. This component is used for maintaining the fabric profile groups server log file.

Message	Description
Fabric profile groups server plugin is misconfigured–User Name property is not set	Fix the server plugin configuration in the JON server console.
Fabric profile groups server plugin is misconfigured–User Password property is not set	Fix the server plugin configuration in the JON server console.
Fabric profile groups server plugin is misconfigured–Recalculation Interval property is not set	Fix the server plugin configuration in the JON server console.
Property Registry URL must have a non-empty value	Missing registry URL in the plugin configuration. Fix the registry URL property under Server Plugin configuration in the JON server console.

FuseMBeanResourceComponent component

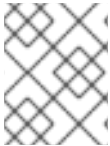


NOTE

FuseSource 7.x, JBoss Fuse 6.x, ServiceMix 3.x, 4.x. This component is used for discovering Fuse MBeans.

Message	Description
EMS bean was null for Resource with type [<i><resourceType></i>] and statsObjectName key [<i><statsObjectName></i>].	The statistics MBean is missing. This exception rarely occurs. Caused by using an unsupported version of Karaf.

FuseServerComponent component



NOTE

FuseSource 7.x, JBoss Fuse 6.x, ServiceMix 3.x, 4.x. This component is used for establishing connections to Fuse servers.

Message	Description
Unsupported connection type descriptor <i><connectionTypeDescriptorClass></i>	The JMX connection type is unsupported. This exception rarely occurs. Report the exception to Red Hat Technical Support (see Note).
Failed to get JMX service URL using jvmstat	jvmstat was unable to get the JMX service URL. This exception occurs only when the JVM cannot attach to the process because, for example, something is wrong with the JVM installed on the machine or with the user's permissions to access the monitored Fuse process. Report the exception to Red Hat Technical Support (see Note).
Failed to authenticate to managed JVM—principal and/or credentials connection properties are not set correctly	A resource start error occurred. Fix the JMX user and password the Connection Settings in the JON console.

FuseServerDiscoveryComponent component



NOTE

FuseSource 7.x, JBoss Fuse 6.x, ServiceMix 3.x, 4.x. This component is used for discovering Fuse servers.

Message	Description
Home directory <i><homePath></i> does not exist	The Karaf home directory does not exist. This exception rarely occurs, and indicates a corrupt or deleted installation.

Message	Description
Process [<i><pid></i>] with command line <i><commandLine></i> cannot be discovered because it does not specify -D<i><resourceKeyProperty></i>=UNIQUE_KEY	<p>Because the resource does not have the expected command line key, it cannot be discovered. This exception rarely occurs.</p> <p>Report the exception to Red Hat Technical Support (see Note).</p>
A connector address must be specified when manually adding a <i><resourceTypeName></i>.	<p>An error occurred when an attempt was made to manually add a resource.</p> <p>In the JON server console, change the appropriate settings per error message for the manually added resource.</p>
Failed to authenticate to <i><resourceTypeName></i> with connector address [<i><connectorAddress></i>]-principal and/or credentials connection properties are not set correctly.	<p>An error occurred when an attempt was made to manually add a resource.</p> <p>In the JON server console, change the appropriate settings per error message for the manually added resource.</p>
Failed to connect to <i><resourceTypeName></i> with connector address [<i><connectorAddress></i>].	<p>An error occurred when an attempt was made to manually add a resource.</p> <p>In the JON server console, change the appropriate settings per error message for the manually added resource.</p>
Version file <i><versionFile></i> could not be found in <i><homePath></i>	<p>An error occurred when an attempt was made to manually add a resource.</p> <p>In the JON server console, change the appropriate settings per error message for the manually added resource.</p>
Error setting plugin properties, check agent log for details (you may have to enable debug first)	<p>An error occurred when an attempt was made to manually add a resource.</p> <p>In the JON server console, change the appropriate settings per error message for the manually added resource.</p>
Missing Property <i><connectorAddress></i> in Resource type <i><resourceType></i>	<p>A plugin configuration error occurred that indicates the plugin is broken. This exception should never occur.</p>
Unable to get Process PID using <code>java.lang.management.RuntimeMXBean</code> for [<i><resourceTypeName></i>], with connector address [<i><connectorAddress></i>]	<p>An error occurred while attempting to discover a JVM process.</p> <p>Send the agent log file with report to Red Hat Technical Support (see Note).</p>

Message	Description
Error getting Process PID for resource [<i>resourceTypeName</i>] with JMX connector [<i>connectorAddress</i>]: <i>error-message</i>	An error occurred while attempting to discover a JVM process. Send the agent log file with report to Red Hat Technical Support (see Note).

GitDataStoreImpl component



NOTE

JBoss Fuse 6.1 and higher. This component is used for reading profile data stored in Git.

Message	Description
Error opening Fabric Git repo at [<i>gitRepo</i>]: <i>message</i>	Git repository error. Possible bad Git repository in Fabric.
Missing Git <i>branch</i>	Git repository error. Possible bad Git repository in Fabric.
Error looking up MQ broker properties: <i>message</i>	The specified error occurred when attempting to read the MQ broker's properties. The message contains the details.
Error getting Parent profiles for <i>profileName</i>: <i>message</i>	The specified error occurred when attempting to read the specified profile. The message contains the details.

JBossFuseContainerDiscovery component



NOTE

JBoss Fuse 6.x. This component is used for discovering JBoss Fuse containers.

Message	Description
Missing Zookeeper libraries fabric-linkedin-zookeeper-*.jar and fabric-zookeeper-*.jar in <i>karafHomePath</i>/system	LinkedIn class loading error for v6.0. The specified .jar files are missing from Karaf's /system directory. Check the installation.
Missing Google Guava library guava-*.jar in <i>karafHomePath</i>/system	The class loader could not find the specified libraries in <i>karafHomePath</i>/system . Check the installation.

Message	Description
Missing JGit library fabric-git-1*.jar in <karafHomePath>/system	Fabric Git repository class loading error for v6.1. The specified files are missing from Karaf's /system directory. Check the installation.
Missing value for property <property> in serviceUrl	JMX URL error reading from configuration property files. Check Karaf properties for resolving serviceUrl in etc/ directory.

JBossFuseProfileGroupManager component



NOTE

JBoss Fuse 6.x. This component is used for managing fabric profile groups on JBoss Fuse

Message	Description
Neither LinkedIn Zookeeper nor Apache Curator library was found	The specified libraries used for Zookeeper connections are missing. This exception should occur only if the installation was modified.
Error processing Server Profile <profile>:<containerVersion>: <message>	An error occurred while processing the specified server's profile.
Error processing Profile metadata for [resourceKey]: <message>	An error occurred while processing profile metadata for the specified resource.
Unknown metric <metricName> for resource <resourceKey>	Unable to recognize the specified metric. This exception will occur only if the plugin is broken.

JvmStatUtility component



NOTE

FuseSource 7.x, JBoss Fuse 6.x, ServiceMix 3.x, 4.x. This component is used for discovering JVMs.

Message	Description
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Message	Description
Failed to extract JMX service URL for process with PID [<i><pid></i>]	<p>The Java process PID cannot be converted to an integer to extract the JMX URL using <code>ConnectorAddressLink.importFrom(int)</code>.</p> <p>Report the exception to Red Hat Technical Support (see Note).</p>

LinkedInFabricRegistryImpl component



NOTE

JBoss Fuse version 6.0. This component implements connections to the Zookeeper registry using the linkedin-zk library.

Message	Description
Unable to connect to Fabric Registry in <i><timeout></i> seconds.	<p>The component failed to connect to Zookeeper within the allotted timeout period.</p> <p>Check Zookeeper network connections.</p>
Error looking up MQ broker properties: <i><message></i>	<p>The specified error occurred when attempting to read the MQ broker's properties. The message contains the details.</p>
Error getting Parent profiles for <i><profileName></i>: <i><message></i>	<p>The specified error occurred when attempting to read the specified parent profile. The message contains the details.</p>