OW2 Aspire RFID Sub Project: RFID Suite

Administration Guide

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1. INTRODUCTION

This guide explains how to administrate the RFID Suite. Reading "Installation guide" before is strongly recommended.

2. REMOTE ADMINISTRATION THROUGH JMX

2.1. JMX

2.1.1. DESCRIPTION

JMX technology provides tools for building distributed, Web-based, modular and dynamic solutions for managing and monitoring devices, applications, and service-driven networks. By design, this standard is suitable for adapting legacy systems, implementing new management and monitoring solutions, and plugging into those of the future.

2.2. JCONSOLE

2.2.1. DESCRIPTION

JConsole is a JMX-compliant monitoring tool. It uses the extensive JMX instrumentation of the Java virtual machine to provide information on performance and resource consumption of applications running on the Java platform.

2.2.2. CONNECTION

Launch JConsole with:

> jconsole

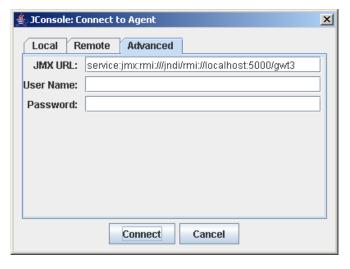


Figure 1: JConsole connect screen



JMX URL Format: service:jmx:rmi:///jndi/rmi://IP:Port/ProfileFelix

IP : ip of the gateway which run Felix
Port : JMX port of the gateway

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No "User Name" and no "Password"

3. MAKE CUSTOM REPORT

To build a custom report you need to follow these steps:

- 1. Define what kind of information you want to send (ECSpec).
- 2. Define who receives this information (ALE).

3.1. ECSPEC DOCUMENTATION

Function	addLogicalReaderName	e(String logicalName)
Description		ist of logical reader names which will be queried as a part of this ECSpec. If the t, this method has no effect.
Parameters	logicalName	the reader's logical name
Function	addECReportSpec(String reportName, boolean includeEPC, boolean includeRay, boolean includeRawHex, boolean includeRawDecimal, boolean includeCount, String reportSetSpec, boolean reportIfEmpty, boolean reportOnlyOnChange, boolean includeGPS, boolean includeTemperature, boolean includeReaderName)
Description	Add an object which de	scribes the individual report which will be generated by an event cycle.
Parameters	reportName	the name of the report
	includeEPC	whether to include EPC in Pure Identity format in the report
	includeTag	whether to include EPC in tag format in the report
	includeRawHex	whether to include EPC in raw hexadecimal format in the report
	includeRawDecimal	whether to include EPC in raw decimal format in the report
	includeCount	whether to include the count of EPCs in the report
	reportSetSpec	define the EPCs to include. Can be CURRENT , ADDITIONS or DELETIONS . CURRENT is selected by default if the given string isn't recognized.
	reportIfEmpty	If set to true, the report should be generated even if it contains no EPCs.

		Otherwise, the no report will be generated in this case.
rep	portOnlyOnChange	If reportOnlyOnChange is true, the ECReport is generated only if the set of
<u> </u>		EPCs, is different from the previous event cycle's set.
inc	cludeGPS	whether to include GPS data in the report
inc	cludeTemperature	whether to include temperature data in the report
inc	cludeReaderName	whether to include the name of the logical reader

Function	· · · · · · · · · · · · · · · · · · ·	eportName, pcPattern, n isIncludingFilter)
Description	Adds a filtering pattern to	a report
Parameters	reportName	the name of the report
	epcPattern	a URI object containing an EPC pattern.
	isIncludingFilter	if set to true, adds an including filter, otherwise adds an excluding filter.

Function	addECGroupSpec(String r String 6	eportName, epcPattern)
Description	Adds a grouping pattern to	o a report
Parameters	reportName	the name of the report
	epcPattern	a URI object containing an EPC pattern.

Function	createECSpec(String specN	lame)
Description	Links the created ECSpec to	o a name. Calls ALE.define(String specName).
Parameters	specName	the name of the created ECSpec.

Function	immediate()	
Description	Calls ALE.immediate metho	d on the current ECSpec
Return		The immediate report

3.2. JCONSOLE SCREENSHOTS

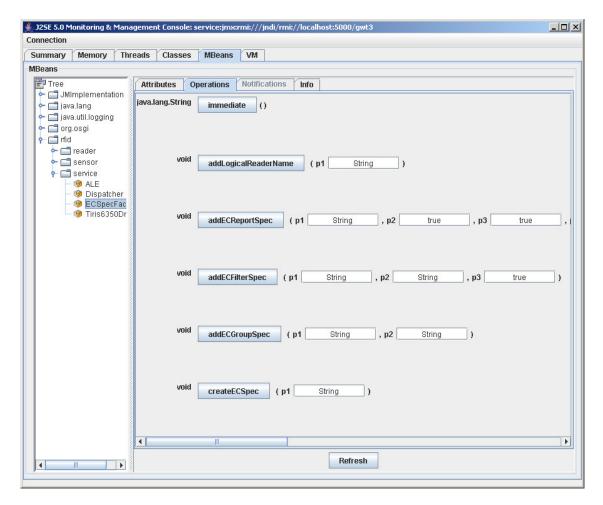


Figure 2: ECSpec JConsole screenshot

4. APPLICATION LEVEL EVENTS (ALE)



See http://www.epcglobalinc.org/standards/ale if you want more details about ALE.

-			
Function	void undefine(String ecSpe	ecName)	
Description	Undefine an event cycle sp	pecification. All existing subscriptions will be removed.	
Parameters	ecSpecName	The name of the specification to undefine.	
Function	void subscribe(String ecSp	ecName, URI uri)	
Description	Subscribe to asynchronous	s report delivery from an event cycle specification.	
Parameters	ecSpecName	ecSpecName The name of the specification to subscribe to.	
	uri	destination for asynchronously delivered reports.	

Function	unsubscribe(String ecSpec	Namo IIPI uri)
Description	` • •	estination from receiving asynchronous delivery of reports from a specified event
Description	·	estination from receiving asynchronous delivery of reports from a specified event
	cycle specification.	
D	C. Alleria	
Parameters	ecSpecName	The name of the specification to unsubscribe from.
	uri	The destination that will no longer receive reports.
Function	String poll(java.lang.String	ecSpecName)
Description	Activates a previously defi	ned event cycle specification for one event cycle, synchronously returning a
	report.	
	report.	
Parameters	ecSpecName	The name of the event cycle specification to activate.
Parameters	·	The name of the event cycle specification to activate.
Parameters	·	The name of the event cycle specification to activate.
Parameters	·	The name of the event cycle specification to activate.
Parameters Function	ecSpecName	
Function	ecSpecName List getSubscribers(String s	specName)
	ecSpecName List getSubscribers(String s	
Function Description	ecSpecName List getSubscribers(String sections a list of URIs which	specName) h are subscribed to asynchronous reports for the specified ECSpec name.
Function	ecSpecName List getSubscribers(String s	specName)

4.1. BUILD ECSPEC WITH JCONSOLE

Connect to your gateway with JConsole

1. See chapter 2.2.2

Create default ECSpec

- addLogicalReaderName(fictive).
- 2. addECReportSpec, change only first parameter to:"myreport"
- 3. createECSpec(myecspec)

Define which computer will receive your report

- 1. Go to "Service>ALE"
- 2. Subscribe(myecspec, jms: fr. dyade. aaa. jndi2. client. Naming Context Factory/129.88.39.189/16400/129.88.39.189/16010/JTCF/r fidser vertopic/root/root)

For more details about the URI destination format, see the info box below.

Now, your server receives **EMPTY** reports from your gateway by JMS.

Start fictive reader to fill in the report.

- 1. Go to "Readers>Fictive"
- startReader()

Now, your server receives by JMS, reports **WITH INFORMATION** from your gateway.



URI destination must follow these formats:

(i)	SMTP	Format Example	smtp:mail server ip / mail server port / sender mail address / receiver mail address smtp:129.88.39.189/25/homega@homega.fr/homega@homega.fr
	ws	Format Example	soap: web service url soap:http://129.88.39.189:8191/ReportServiceImpl?wsdl
	JMS	Format Example	jms:NamingContextFactory/NamingContextIP/NamingContextPort/JMSServerIP /JMSServerPort/ConnectionFactoryBindingName/SendToTopicName/JMSLogin /JMSPassword jms:fr.dyade.aaa.jndi2.client.NamingContextFactory/129.88.39.189/ 16400/129.88.39.189/16010/JTCF/rfidservertopic/root/root

5. BUNDLES LIST

If you want to launch a customized edge or premise, you need to have more information about the bundles. Here is a graph with the project dependencies and a descriptive table explaining the functionalities of the different jars:

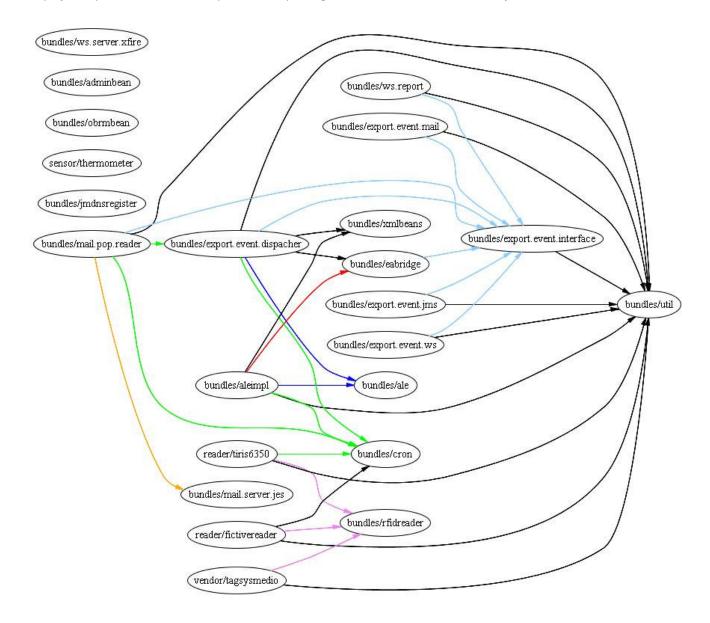


Figure 3: Package dependencies

	Name	aleimpl-0.1.0.jar
	Optional	False
Ī	Dependency	ale-0.1.0.jar
	Description	This bundle implements the ALE specification version 1.0. ALE provides a standardized method to aggregate and
		filter data from readers. ALE defines also an XML schema (that can be extended) to allow standardized

exchanges between many modules.

If more than one business application needs to collect RFID information, the needed filters may be different for each application. In this case, we have two solutions:

- create a filter instance for each application. Each filter sends its report to the corresponding application. In this case, the same information may be duplicated, and travel several times through the network.
- The gateway filter is the sum of the needed filters, all needed information is collected, and stored to the database, and each application uses again its filter to interrogate the database.

To be flexible on each solution, filters are generated, and configured to get either reader information, or other filter information in input. In the same way, the filter generates an ALE XML report, of an object structure which may be an input of another filter.

Name	export.event.dispatcher-0.1.0.jar
Optional	False
Dependency	eabridge -0.1.0.jar
	cron-0.1.0.jar
	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar
	<u>Optional dependency :</u>
	export.event.jms-0.1.0.jar
	export.event.smtp-0.1.0.jar
	export.event.ws-0.1.0.jar
Description	Collected information needs to be sent to the premise or the server. This module dispatches messages through
	the protocol defined in them.

Name	cron-0.1.0.jar
Optional	False
Dependency	None
Description	It is a bundle that provides an OSGi TM service to execute a task periodically. For example, it is used to send
	reports automatically.

Name	export.event.jms-0.1.0.jar
Optional	True
Dependency	export.event.interface-0.1.0.jar
	export.event.dispatcher-0.1.0.jar
	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar
Description	This bundle provides the ability to send message by JMS protocol through the dispatcher.

Name	export.event.ws-0.1.0.jar
Optional	True
Dependency	export.event.interface-0.1.0.jar
	export.event.dispatcher-0.1.0.jar
	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar
Description	This bundle provides the ability to send message by Web Service protocol through the dispatcher.

Name	export.event.smtp-0.1.0.jar
Optional	True

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Dependency	export.event.interface-0.1.0.jar	
	export.event.dispatcher-0.1.0.jar	
	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar	
Description	This bundle provides the ability to send message by SMTP protocol through the dispatcher.	

Name	fictivereader-0.1.0.jar
Optional	True
Dependency	eabridge -0.1.0.jar
	cron-0.1.0.jar
	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar
	Optional dependency:
	Thermometer-0.1.0.jar
Description	This bundle simulates a RFID reader.

Name	rfidreader-0.1.0.jar
Optional	True
Dependency	None
Description	Export package of RFID readers services

Name	adminmbean-0.1.0.jar
Optional	False
Dependency	None
Description	Provides a service with a MBean interface to manage the OSGi gateway

Name	mail.pop.reader-0.1.0.jar
Optional	True
Dependency	cron-0.1.0.jar
	export.event.dispatcher-0.1.0.jar
	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar
Description	A daemon which reads periodically the mail server specified in "mail.properties".

Name	mail.server-0.1.0.jar
Optional	True
Dependency	None
Description	Java Email Server (JES)

Name	tagsysmedio -0.1.0.jar
Optional	True
Dependency	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar
	com.tagsys.jar
	rxtx.jar
	Optional dependency:
	eabridge -0.1.0.jar
Description	Driver of TagSys RFID Reader.

Name	tiris6350-0.1.0.jar
Optional	True

Dependency	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar
Dependency	rxtx.jar
	Optional dependency :
	org.apache.felix.eventadmin-0.9.0-SNAPSHOT.jar
	cron-0.1.0.jar
Description	Driver of Texas Instrument RFID Reader
Name	util-0.1.0.jar
Optional	False
Dependency	None
Description	A bundle which regroups useful functions
Name	ws.report-0.1.0.jar
Optional	True
Dependency	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar
	Optional dependency
	export.event.dispatcher-0.1.0.jar
	ws.server.xfire-0.1.0.jar (without your service isn't exposed)
Description	Web service which receive report
Name	ws.server.xfire-0.1.0.jar
Optional	True
	1146
Dependency	util-0.1.0.jar
Dependency	util-0.1.0.jar
Dependency Description	util-0.1.0.jar Web service server, auto expose web service
Dependency Description Name	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar
Dependency Description Name Optional	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False
Dependency Description Name Optional Dependency	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None
Dependency Description Name Optional	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False
Dependency Description Name Optional Dependency	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None
Dependency Description Name Optional Dependency Description	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library.
Dependency Description Name Optional Dependency Description Name	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar
Dependency Description Name Optional Dependency Description Name Optional	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True
Dependency Description Name Optional Dependency Description Name Optional Dependency	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar
Dependency Description Name Optional Dependency Description Name Optional	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True
Dependency Description Name Optional Dependency Description Name Optional Dependency	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar
Dependency Description Name Optional Dependency Description Name Optional Dependency	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar
Dependency Description Name Optional Dependency Description Name Optional Dependency Description	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar JORAM server
Dependency Description Name Optional Dependency Description Name Optional Dependency Description	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar JORAM server org.apache.felix.mosgi.jmx.agent-0.9.0-SNAPSHOT.jar
Dependency Description Name Optional Dependency Description Name Optional Dependency Description Name Optional Dependency Description	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar JORAM server org.apache.felix.mosgi.jmx.agent-0.9.0-SNAPSHOT.jar False
Dependency Description Name Optional Dependency Description Name Optional Dependency Description Name Optional Dependency Description	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar JORAM server org.apache.felix.mosgi.jmx.agent-0.9.0-SNAPSHOT.jar False org.apache.felix.log-0.9.0-SNAPSHOT.jar
Dependency Description Name Optional Dependency Description Name Optional Dependency Description Name Optional Dependency Description	Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar JORAM server org.apache.felix.mosgi.jmx.agent-0.9.0-SNAPSHOT.jar False org.apache.felix.log-0.9.0-SNAPSHOT.jar JMX server
Dependency Description Name Optional Dependency Description Name Optional Dependency Description Name Optional Dependency Description Name Optional Dependency Name Optional Dependency Description	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar JORAM server org.apache.felix.mosgi.jmx.agent-0.9.0-SNAPSHOT.jar False org.apache.felix.log-0.9.0-SNAPSHOT.jar JMX server org.apache.felix.mosgi.jmx.registry-0.9.0-SNAPSHOT.jar
Dependency Description Name Optional Dependency Description Name Optional Dependency Description Name Optional Dependency Description Name Optional Dependency Description	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar JORAM server org.apache.felix.mosgi.jmx.agent-0.9.0-SNAPSHOT.jar False org.apache.felix.log-0.9.0-SNAPSHOT.jar JMX server org.apache.felix.mosgi.jmx.registry-0.9.0-SNAPSHOT.jar False
Dependency Description Name Optional Dependency Description Name Optional Dependency Description Name Optional Dependency Description Name Optional Dependency Description	util-0.1.0.jar Web service server, auto expose web service JoramCommonsLibs-FELIX.jar-0.1.0.jar False None JORAM commons library. joram-mom-bundle-FELIX.jar-0.1.0.jar True JoramCommonsLibs-FELIX.jar-0.1.0.jar JORAM server org.apache.felix.mosgi.jmx.agent-0.9.0-SNAPSHOT.jar False org.apache.felix.log-0.9.0-SNAPSHOT.jar JMX server org.apache.felix.mosgi.jmx.registry-0.9.0-SNAPSHOT.jar False org.apache.felix.log-0.9.0-SNAPSHOT.jar
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Name org.apache.felix.mosgi.jmx.rmiconnector-0.9.0-SNAPSHOT.jar

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Optional	False	
Dependency	org.apache.felix.log-0.9.0-SNAPSHOT.jar	
Description	Makes a connection between "JMX Registry" and "JMX Server".	
Name	rxtx.jar	
Optional	True	
Dependency	None	
Description	Library to communicate with serial port	
Name	org.osgi.compendium-0.9.0-SNAPSHOT.jar	
Optional	False	
Dependency	None	
Description	Extends OSGi Core service	
Name	org.apache.felix.log-0.9.0-SNAPSHOT.jar	
Optional	True	
Dependency	org.osgi.compendium-0.9.0-SNAPSHOT.jar	
Description	Logger service	
Nama	arg anasha faliy ayantadmin 0.0.0 SNARSHOT iar	
Name Optional	org.apache.felix.eventadmin-0.9.0-SNAPSHOT.jar False	
Dependency	None	
Description	OSGi event admin	
Name	jmdns.jar & jmdnsregister-0.1.0.jar	
Optional	False	
Dependency	None	
Description	Enables gateways auto discovery (for JASMINE console)	
Nama	com teggue iou	
Name Optional	com.tagsys.jar True	
Dependency	rxtx.jar	
Description	Communication library for TagSys	
Name	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar	
Optional	False	
Dependency	None	
Description	Tools providing easy management of bundle life cycle and dynamic service dependencies	
Name	eabridge-0.1.0.jar	
Optional	False	
Dependency	org.apache.felix.ipojo-0.7.3-SNAPSHOT.jar	
,		
	Optional dependency	
	export.event.dispatcher-0.1.0.jar	
	org.apache.felix.eventadmin-0.9.0-SNAPSHOT.jar	
Description	Transforms RFID Reader events into ALE events.	

6. BUNDLE CONFIGURATION

6.1. DISPATCHER

6.1.1. DESCRIPTION

This OSGi bundle dispatches reports through three protocols in parallel or not:

- Web Service (WS)
- Simple Mail Transfer Protocol (SMTP)
- Java Message Service (JMS)

6.1.2. DISPATCHER.PROPERTIES

Documentation:

java.naming.factory.initial	JMS JNDI initial context name
java.naming.factory.port	JMS JNDI port
java.naming.factory.host	JMS JNDI ip
jms.topic.connection.factory.bind.name	Name of topic connection factory store in JMS JNDI
jms.server.host	Premise JMS Server ip
jms.server.port	Premise JMS Server port
jms.admin.login	Premise JMS Server admin login
jms.admin.pass	Premise JMS Server admin password
consumer.topic	Premise JMS consumer topic
	FORMAT:
destination out	jms:NamingContextFactory/NamingContextIP/NamingContextPort/JMSServerIP
destination.uri	/JMSServerPort/ConnectionFactoryBindingName/SendToTopicName/JMSLogin
	/JMSPassword
	1

Default config:

```
java.naming.factory.initial=fr.dyade.aaa.jndi2.client.NamingContextFactory
java.naming.factory.port=16401
java.naming.factory.host=129.88.39.189
jms.topic.connection.factory.bind.name=JTCF
jms.server.host=129.88.39.189
jms.server.port=16011
jms.admin.login=root
jms.admin.pass=root

#JMS topic consumer
consumer.topic=rfidpremisetopic

#URI used to send non treated reports and alerts
destination.uri=jms:fr.dyade.aaa.jndi2.client.NamingContextFactory/129.88.39.142/16400/
129.88.39.142/16010/JTCF/rfidservertopic/root/root
```



DO NOT use localhost or 127.0.0.1 as the premise IP

6.1.3. JCONSOLE SCREENSHOT

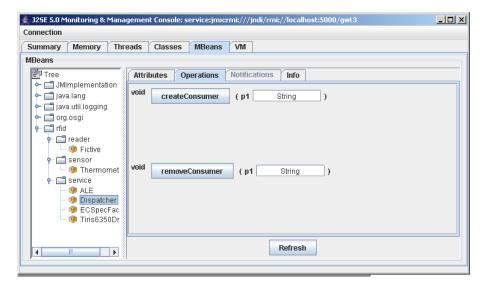


Figure 4: Dispatcher JConsole screenshot

6.2. MAIL POP READER

6.2.1. DESCRIPTION

The mail pop reader is a daemon which reads periodically a mail account with the POP3 protocol. You need to configure "mail.properties" with your own settings.

6.2.2. MAIL.PROPERTIES DOCUMENTATION

host	Mail server host ip
server	Mail server host port
account.name	Mail account name
account.login	Mail account password

6.3. EXPORT EVENT MAIL

6.3.1. DESCRIPTION

If you want to send messages through SMTP, you need to install "export event mail" and configure your "mail.properties" file.

6.3.2. MAIL.PROPERTIES DOCUMENTATION

mail.smtp.host	Mail server host ip
mail.smtp.port	Mail server host port

6.4. MAIL SERVER

6.4.1. DESCRIPTION

Each premise that provides SMTP transfer must embed a Java Email Server (JES), and of course each server need configuration.

6.4.2. CONF.PROPERTIES DOCUMENTATION

log.conf	Path to your JES log.conf
mail.conf	Path to your JES mail.conf
user.conf	Path to your JES user.conf
mail.directory	Path to your JES mail folder