

#### EUROPEAN COMMISSION

DIGIT Connecting Europe Facility

# **CEF eDelivery Access Point**

## **Test Guide**

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## Approach and purpose of the document

The present document is the Test Guide of the CEF eDelivery Access Point sample implementation (Domibus).

This document is intended for developers that want to perform a set of checks on their Domibus installation and testers that want to have a starting point to create their own test cases.

The first chapter details the setup of the test environment and the configuration of the test tool.

The second chapter explains the test scenarios and provides guidance on how to run them.

The third chapter describes the verification of the message status in the administration console.

The fourth chapter contains contact information for the CEF Support team.

The applicable terms and conditions of CEF eDelivery can be consulted in its Master Service Arrangement, available on the CEF Digital Single Web Portal:

https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Operations#Operations-masterservice

## Glossary

The key terms used in this Test Guide are defined in the CEF Definitions section on the CEF Digital Single Web Portal:

https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/CEF+Definitions

The key acronyms used in this Test Guide are defined in the CEF Glossary on the CEF Digital Single Web Portal:

https://ec.europa.eu/cefdigital/wiki/pages/viewpage.action?spaceKey=CEFDIGITAL&title=CEF+Gloss ary

## **1. PREREQUISITES**

This chapter details the setup of the test environment and the configuration of the test tool.

## **1.1. Install and configure two AS4 Access Points**

This Test Guide assumes that two AS4 Access Points "blue" and "red" are installed and configured properly as defined in the Quick Start Guide of the latest CEF eDelivery Access Point release package.

#### 1.2. Install SoapUI

Install SoapUI, an open source test tool for Web Service testing. A free version without restrictions is available and this free version is sufficient to run the tests in this package.

Download SoapUI free<sup>1</sup> via and follow the installation instructions on the website. The version used to create the tests is SoapUI 5.2.1<sup>2</sup>.

## **1.3. Configure SoapUI**

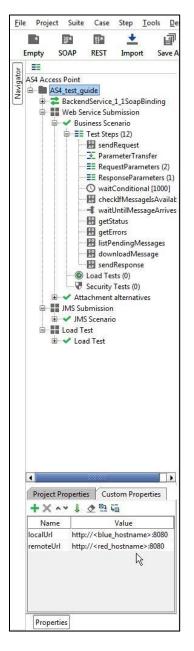
Inside SoapUI, create a new workspace (File->New Workspace) and load the project in this package (AS4-test-guide-soapui-project.xml) using the import functionality of SoapUI (File->Import Project).

In the Navigator in SoapUI, left-click on the project "AS4\_test\_guide" and select "Custom Properties" in the Properties panel.

- Set the Property named "localUrl" to the IP address and port of the machine that is running Access Point "blue".
- Set the Property named "remoteUrl" to the IP address and port of the machine that is running Access Point "red".

<sup>&</sup>lt;sup>1</sup> <u>http://www.soapui.org/</u>

<sup>&</sup>lt;sup>2</sup> <u>https://www.soapui.org/downloads/soapui/source-forge.html</u>

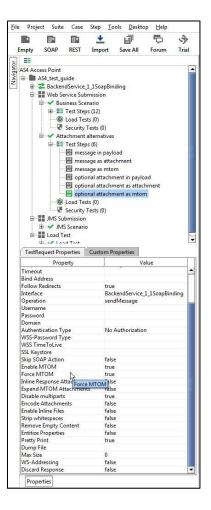


**Figure 1 - Custom Properties** 

Now the service endpoints in the test steps will automatically be created from these values and no further configuration is required.

The WSDL of the services were loaded when creating the test project and they are stored in the project file. If they need to be reloaded, ensure that a local Access Point is up and running. Otherwise the URL of the WSDL (e.g http://localhost:8080/domibus/services/backend?wsdl) will not be accessible.

MTOM (Message Transmission Optimization Mechanism) is a method to efficiently send binary data to and from Web Services. This option is already pre-configured in the test request properties that need it. Changing this value might result in failures when transmitting the binary content of the exchanged messages.



**Figure 2 – Test Request properties** 

No authentication or authorization is required in the current version of the setup. The default setup of the SoapUI project will be sufficient to run the test case.

A default installation based on the Quick Start Guide<sup>3</sup> allows users to send messages via the default Web Service plugin<sup>4</sup>. The Quick Start Guide includes an optional section on deploying the default JMS plugin<sup>5</sup>. To be able to test sending messages to the JMS plugin via the sample SoapUI project, the Apache ActiveMQ libraries<sup>6</sup> need to be added to the lib folder of SoapUI. A restart of SoapUI is required to take the load the new libraries.

<sup>&</sup>lt;sup>3</sup> The Quick Start Guide is available in the documentation section of the Domibus release via <u>https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Domibus</u>

<sup>&</sup>lt;sup>4</sup> The Web Service Plugin ICD is available in the documentation section of the Domibus release via <u>https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Domibus</u>

<sup>&</sup>lt;sup>5</sup> The JMS plugin ICD is available via is available in the documentation section of the Domibus release via <u>https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Domibus</u>

<sup>&</sup>lt;sup>6</sup> <u>http://activemq.apache.org/download.html</u>

## **2. TEST SCENARIOS**

This chapter explains the test scenarios and provides guidance on how to run them.

## **2.1. Web Service Submission**

#### 2.1.1. Business Scenario

In this scenario, the sending Access Point (party blue\_gw with ID "domibus-blue") will first send a request to the receiving Access Point (party red\_gw with ID "domibus-red"). Then, the receiving Access Point is being polled for new messages. When the new message has arrived, it will be downloaded from the receiving Access point. Finally the Access Points will switch roles and the receiving Access Point will send a response to the sending Access Point.

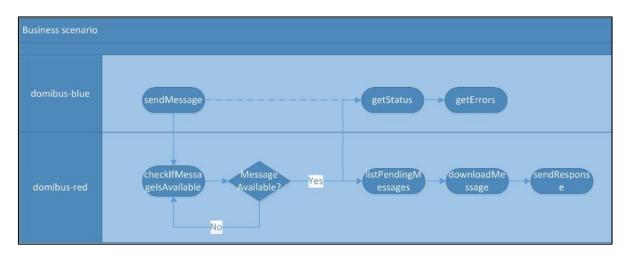


Figure 3 – Overview of the business scenario

The detailed steps are listed below:

- 1. [domibus-blue] Step "sendMessage" submits a message to the Web Service plugin of the Access Point that is located at localUrl. The message contains an XML message according to the sample PMode configuration files as defined in the Quick Start Guide ("businessContentPayload"). Its MimeType must be set to "text/xml". The "businessContentAttachment" is optional and can contain any type of binary attachment. Regardless of the specific type of attachment used, its content type must be set to "application/octet-stream". In this specific test step, the Attachment alternatives". The response from the Web Service plugin contains the message ID of the AS4 message that will be exchanged between the sending and receiving Access Points.
- 2. [domibus-blue] In the background, the Access Point running at localUrl uses the message from step 1 as input to construct an AS4 message and send it to the Access Point that is running at remoteUrl.
- 3. [domibus-red] Steps "ParameterTransfer", "RequestParameters" and "ResponseParameters" are used for storing the MessageID, FromPartyID and ToPartyID parameters of the AS4 message. These parameters will be used in subsequent steps for verifying that the message is correctly received and can be downloaded from the receiving Access Point.
- 4. [domibus-red] Steps "waitConditional", "checkIfMessageIsAvailable" and "waitUntilMessageArrives" are looping and waiting for the message to arrive at the receiving Access Point.
- 5. [domibus-red] In the background, the Access Point that is running at remoteUrl will receive the message that is sent in step 2. Upon reception, the message will be stored in the database of the Access Point. Afterwards, the message is available via the "listPendingMessages" and "retrieveMessage" Web Service operations exposed by the Access Point. If the "retrieveMessage" operation succeeds, the Access Point will delete the message from the database (assuming that the retention parameters are set according to the sample configuration from the Quick Start Guide).
- 6. [domibus-blue] Step "getStatus" calls the "getStatus" operation at the sending Access Point. If the message is correctly received and acknowledged by the receiving Access Point, the operation will return the value "ACKNOWLEDGED".
- [domibus-blue] Step "getMessageErrors" calls the "getMessageErrors" operation at the sending Access Point. If the message is correctly received and acknowledged by the receiving Access Point, the operation will return a response where the "getMessageErrorsResponse" element is empty.
- 8. [domibus-red] Step "downloadMessage" submits a retrieve request to the Web Service plugin of the receiving Access Point that is located at remoteUrl. The input of the operation is

the MessageID stored in step 3. The output of the operation is a response containing the contents of the message sent and additional information such as the message timestamp.

- 9. [domibus-red] Step "sendResponse", submits a message to the Access Point that is located at localUrl. The message contains an XML message according to the sample PMode configuration files as defined in the Quick Start Guide ("businessContentPayload"). Its MimeType must be set to "text/xml". The "businessContentAttachment" is optional and can contain any type of binary attachment. Regardless of the specific type of attachment used, its content type must be set to "application/octet-stream". In this specific test step, the Attachment is not present. To modify the Payload or Attachment, refer to chapter 2.1.2 "Attachment alternatives". The response from the Web Service plugin contains the message ID of the AS4 message that will be exchanged between the sending and receiving Access Points.
- 10. [domibus-red] In the background, the Access Point running at remoteUrl will use the message from step 9 as input to construct an AS4 message and send it to the Access Point that is running at localUrl.

To run this test scenario, open the "demo" test case and click the green "play" button. Each test step will be executed and a green progress bar will indicate the successful completion of the test steps.

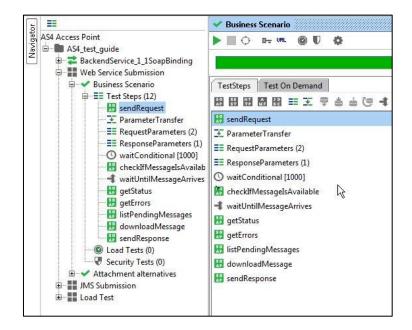


Figure 4 – Running the business scenario

#### 2.1.2. Attachment alternatives

The sample PMode configuration files as defined in the Quick Start Guide define two payloads:

- A mandatory "businessContentPayload" (cid:message) for which the MimeType must be set to "text/xml".
- An optional "businessContentAttachment" (cid:attachment) for which the MimeType must be set to "application/octet-stream".

The test case "Attachment alternatives" contains different test steps with alternative options for submitting a message to the default Web Service plugin.

- 1. Test step "message in payload" contains an XML message which is base64 encoded inside the Soap Body of the request to the Web Service plugin.
- 2. Test step "message as attachment" contains an XML message which is added as an attachment in the request message of SoapUI. SoapUI will base64 encode the message and include it in the Soap Body of the request to the Web Service plugin.
- 3. Test step "message as mtom" contains an XML message which is added as an attachment in the request message of SoapUI. Since the TestRequest Properties "Enable MTOM" and "Force MTOM" are enabled, SoapUI will send the message as a multipart MIME message and include the XML in a separate MIME part of the request to the Web Service plugin.
- 4. Test step "optional attachment in payload" adds an optional attachment in addition to the XML message. The attachment is base64 encoded inside the Soap Body of the request to the Web Service plugin.
- 5. Test step "optional attachment as attachment" adds an optional attachment in addition to the XML message. The attachment is added as an attachment in the request message of SoapUI. SoapUI will base64 encode the message and include it in the Soap Body of the request to the Web Service plugin.
- 6. Test step "optional attachment as mtom" adds an optional attachment in addition to the XML message. The attachment is added as an attachment in the request message of SoapUI. Since the TestRequest Properties "Enable MTOM" and "Force MTOM" are enabled SoapUI will send the message as a multipart MIME message and include the attachment in a separate MIME part of the request to the Web Service plugin.

To visualise the raw message that SoapUI sends, click on the tab "Raw" after submitting the message.

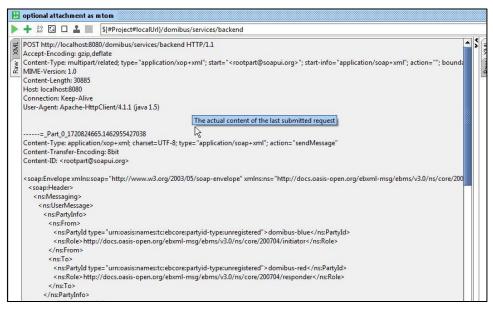


Figure 5 – Visualising the raw message that SoapUI sends.

## 2.2. JMS Submission

The default JMS plugin provides an alternative way to submit messages to a sending Access Point. Instead of performing a Web Service request, users can post a message to a JMS queue on the sending Access Point. The sending Access Point will read the message from its queue, construct an AS4 message and send it to the receiving Access Point where it will be available for download.

The test step sendMessage in the JMS Scenario test suite contains a groovy script to post a message to the JMS queue of the sending Access Point. Currently, this code is only valid for Tomcat server deployment. In the future, we will provide a test suite that will also support WebLogic and WildFly servers.

The script assumes that the configuration of the sending Access Point is done according to the instructions in the Quick Start Guide. If custom settings are used, the variables in the script need to be updated.

Upon running the script, the message is posted to the JMS queue of the sending Access Point. If the script executes successfully, a log message "message sent" will be written to the script Log Output panel in SoapUI. Contrary to the Web Service plugin, the JMS plugin does not return the message ID that will be used for constructing the AS4 message which is sent to the receiving Access Point. However, optionally, the message ID can be set in the JMS message and in this case the sending Access Point will use this message ID (if it is not a duplicate message ID which has been used before).

=	🔺 sendMessage
AS4 Access Point	
<ul> <li>BAS test.guide</li> <li>BackendService.jlSoapBinding</li> <li>BackendService submission</li> <li>✓ Business Scenario</li> <li>✓ Attachment alternatives</li> <li>✓ MMS Scenario</li> <li>✓ MMS Scenario</li> <li>✓ MMS Scenario</li> <li>✓ MMS Scenario</li> <li>✓ Security Tests (0)</li> <li>⊕ Security Tests (0)</li> </ul>	<pre>import org.apache.activemq.ActiveMQConnectionFactory; import javax.ms.*; import javax.ms.*; import javax.naming.NamingException; ActiveMQConnectionFactory connectionFactory = new ActiveMQConnectionFactory("tcp://localhost:61616"); Connection connection = null; MassageProducer producer = null; connection = connectionSactory.createConnection("domibus", "changeit"); //username and password of the default JMS broke Session session = connectionCreateQueue("domibus", "changeit"); //username and password of the default JMS broke Session session.createQueue("domibus.seckand.jms.inQueue"); producer.setDeliveryMode(DeliveryMode.NOM_PERSISTNY); I MapMessageMap.setStringProperty("messageType", "submitMessage"); messageMap.setStringProperty("action", "follag1"); messageMap.setStringProperty("action", "follag1"); messageMap.setStringProperty("action", "follag1"); messageMap.setStringProperty("action", "follag1"); messageMap.setStringProperty("conDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered"); messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered"); messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered"); messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered"); messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered"); messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered"); messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered"); messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered[1"; messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered[1"; messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered[1"; messageMap.setStringProperty("formDartyJype", "unricasis:names:tc:ebcore:partyid-type:unregistered[1"; mes</pre>

Figure 6 – Sending a JMS message

## 2.3. Load Test

The Web Service LoadTest will send a number of messages in parallel to the Web Service interface of the sending Access Point.

In the default configuration of the LoadTest, the same small message is being sent 100 times in 3 parallel threads using a simple load testing strategy. This LoadTest can be updated to send other or larger messages and to use different settings based on specific needs. To update the attachments of the load test, follow the guidelines described in 2.1.2 "Attachment alternatives".

The LoadTest will complete successfully if all the messages are successfully submitted to the Web Service plugin of the Sending Access point. However, this does not mean that all messages will be transferred successfully between the sending and the receiving Access Points. The latter can be verified in the message log of the Administration Console of both the sending and receiving Access Points.

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Figure 7 – Executing a load test

# **3.** VERIFYING THE MESSAGE STATUS IN THE ADMINISTRATION CONSOLE

The status of messages that are sent or received can be verified in the administration console. Both administration consoles of the sending and receiving Access Point can be used for this purpose. Upon sending a message to the Web Service plugin, the synchronous response contains the message ID of the AS4 message that will be exchanged between the sending and receiving Access Points. This "messageID" can be used to verify the status of the message in the sending and receiving Access Points.

As an example, the figure below shows that the message with ID "22cd3f12-29f3-11eb-a0a3-34f39a981a57@domibus.eu" has the status "ACKNOWLEDGED" on the sending Access Point. This indicates that the message has been received successfully received and acknowledged from the receiving Access Point.

As another example, the same figure below shows that the message with ID "2633e90a-29f3-11ebaf7a-34f39a981a57@domibus.eu" has the status "RECEIVED" on this Access Point. It indicates that the message has been successfully sent from the other Access Point to this Access Point.

As a third example, the same figure below shows that the message with ID "14308d17-29f3-11ebaf7a-34f39a981a57@domibus.eu" has the status "DOWNLOADED" on this Access Point. It indicates that the initially received message has been successfully downloaded from this Access Point (assuming that the retention time for downloaded messages has not yet expired for this message).

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Archive	2633e90a-29f3-11eb- af7a-34f39a981a57@domibus.eu	domibus-red	domibus-blue	RECEIVED	19-11-2020 00:09:47GMT+1	RECEIVING	USER_MESSA GE
🎗 Parties	22cd3f12-29f3-11eb- a0a3-34f39a981a57@domibus.eu	domibus-blue	domibus-red	ACKNOWLEDGED	19-11-2020 00:09:40GMT+1	SENDING	USER_MESSA GE
JMS Monitoring	14308d17-29f3-11eb- af7a-34f39a981a57@domibus.eu	domibus-red	domibus-blue	DOWNLOADED	19-11-2020 00:09:17GMT+1	RECEIVING	USER_MESSA GE
Truststore	36e89acc-29f2-11eb- a0a3-34f39a981a57@domibus.eu	domibus-blue	domibus-red	SEND_FAILURE	19-11-2020 00:03:05GMT+1	SENDING	USER_MESSA GE

Figure 8 – Verifying the message status in the administration console.

If a message cannot be sent because for example the other Access Point is not available, then the administration console on the sending Access Point will indicate that the message is in state "SEND\_FAILURE" once the number of "SendAttempts" has reached the value in "SendAttemptsMax". Note that with the current component configuration, the message sender is not notified in any other way of the message failure (since the "submitMessage" operation synchronously returned an HTTP 200 OK with the "messageID"). In the figure above, the message with ID "36e89acc-29f2-11eb-a0a3-34f39a981a57@domibus.eu" has the status "SEND\_FAILURE" on the sending Access Point.

While the retrial policy is active and a message is being resent, its status will be "WAITING\_FOR\_RETRY" and the "NextAttempt" value will define the time when the next retry attempt will be made. In the figure above, the message with ID "2faed2d5-29f3-11eb-a0a3-34f39a981a57@domibus.eu" has the status "WAITING\_FOR\_RETRY" on the sending Access Point.

## **4. MULTITENANCY**

Since release 4.0, Domibus supports multitenancy: on each access point, multiple domains can be configured with each domain having its own set of configuration files (Keystore, Truststore, PMode, Domain properties, etc). This allows message exchange to be extended to domain level.

## 4.1. Configuration

By following the instructions in the admin guide<sup>7</sup>., multitenancy can be configured on the previously installed access points "blue" and "red".

## 4.2. Update the soapUI project

Assuming the following configuration (instructions in the admin guide):

- Domains "blue\_Domain1" and "blue\_Domain2" are configured on "blue" access point.
- "blue\_user1" is linked to domain "blue\_Domain1" and "blue\_user2" is linked to domain "blue\_Domain2".
- Domains "red\_Domain1" and "red\_Domain2" are configured on "red" access point.
- "red\_user1" is linked to domain "red\_Domain1" and "red\_user2" is linked to domain "red\_Domain2".

Since plugin users are defined for each domain, authentication needs to be added on each request.

<sup>&</sup>lt;sup>7</sup> The Admin guide is available in the documentation section of the Domibus release via <u>https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Domibus</u>

#### 4.2.1. <u>Web Service Submission</u>

For webservice submission, authentication needs to be added on each soap request test step.

First select "Add New Authorization" in the Authorization tab:

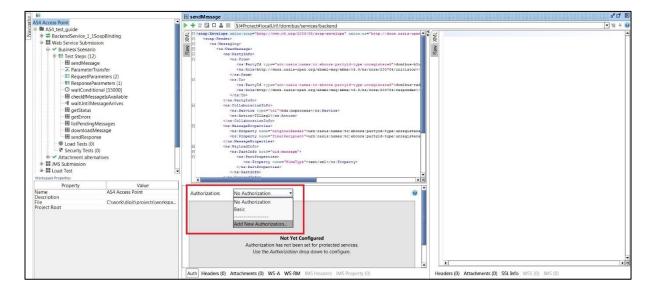


Figure 9 – Adding new authorization.

Then, select "Basic" authorization value:

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■■ ResponsePara		<ns:partyid type="unicasis:names:to:ebcore:partyid-type:unregistered">domibus-red</ns:partyid>	
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H listPendingMe			
		Ans:MessageProperties>	
- 🖽 downloadMe		<ns:property name="originalSender">urn:oasis:names:tc:ebcore:partyid-type:unregistere</ns:property>	
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			-
			10
		Auth Headers (0) Attachments (0) WS-A WS-RM JMS Headers JMS Property (0) Headers (0) Attachments (0) SSL Info WSS (0) JMS (0)	

**Figure 10 – Selecting basic authorization.** 

Finally, type the user/password linked to the targeted domain (sender side) and select "Authenticate pre-emptively" option:

BE ASA Access Point	🗄 sendMessage	막다 또
Te AS4 Access Point	► + # 🖾 🗆 🛓 🖬 🖨 \$/#Project#localUrl)/domibus/services/backend	▼ 11 + 0
B = SALet_guide = 38 Mets_guide = 38 Mets_device_1_IscapBinding = 38 Mets_device_1_IscapBinding = 38 Mets_device_1_IscapBinding = 38 Mets_device_1_IscapBinding = 38 Mets_device_1 = 38 Mets_device	► + 2 Z □ A III A SUPPORCHICALINATIONDUM/envices/backend The set of the	<b>)</b> u + 0
Workspace Properties	<pre></pre>	
Property Value		
Name Property ASI Access Point Description ASI Access Point File C.\workdiait\projects\workspa. Project Root	Username:       bise_user1         Password:	₩ ■ JMS (0)

**Figure 11 – Authorization credentials.** 

In this case, by authenticating with plugin user "blue\_user1", the domain "blue\_domain1" will be selected as sender of the message from the "blue" access point.

Depending on the PMode configuration (see admin guide), the message will be received either by "red\_domain1" or "red\_domain2" from the "red" access point.

#### 4.2.2. JMS Submission

For jms submission, authentication needs to be added via extra properties in the groovy test step:

8 =		★ sendMessage	ef (5 🛙
AS4 Access Point			Script is invoked with log, context and testRunner variables
<ul> <li>B → A54_test_guide</li> <li>B → BackendService_1_</li> <li>W Web Service Subm</li> <li>W Web Service Submission</li> <li>B → MMS Submission</li> <li>B → MMS Security</li> <li>C → Security Test</li> <li>C → Security Test</li> </ul>	) age ))	<pre>[ import org space.stives.dxi:w0/DCrinectionTectory;     import yous.ments/ texture.textu</pre>	
GroovyScript Properties	Custom Properties	13 MagNessage messageMap = session.createMagNessage();	
Property Name	Value	<pre>15 msssqeliap.set@tringProperty('messageType", "submitHessage"); 16 messqeliap.set@tringProperty('setvice", "defanoproces"); 17 messqeliap.setStringProperty('setviceType", "toda:noproces");</pre>	
Description		<pre>imagedup.setArticiptoperty("setLing", "follows) imagedup.setArticiptoperty("setLing", "setLing"; imagedup.setArticiptoperty("setLing", "setLing"; imagedup.setArticiptoperty("setLing", "setLing"; imagedup.setArticiptoperty("setLing", "setLing"; imagedup.setArticiptoperty("setLing", "setLing"; imagedup.setArticiptoperty("setLing", "setLing"; imagedup.setArticiptoperty("setLing"; imagedup.setArticiptoperty(</pre>	

Figure 12 – Setting user authentication for JMS.

## **4.3. Checking the messages in the admin console**

Messages sent/received for each domain can only be viewed in the admin console by users linked to the targeted domain (or by the admin of the access point).

#### 4.3.1. User other than access point admin

When connected to the admin console with a standard user (not an access point admin user), the domain linked to that user is displayed in the "messages" page. Only messages sent/received for that domain are displayed:

Domibus	domibus_c2dom1	1: Messages				0 =
Administration Console	Message Id	Message Status	<ul> <li>From Party Id</li> </ul>		To Party Id	
Messages	Q Search Advanced					
→ Message Filter	10					Show columns
Error Log						
🖹 PMode 🗸 🗸	Message Id	From Party Id To Par	ty Id Message Status	Received ~	AP Role	Message Type A
□ JMS Monitoring	No data to display					
OT Truststore	0 selected / 0 total					
11. Hanna						

Figure 13 – Admin console for normal user.

#### 4.3.2. Access point admin user

When connected to the admin console with access point admin user, all messages of all domains can be viewed. The messages of each domain can be displayed by toggling between domains via the selection on the top right corner of the admin console:

Administration Console	default: Message	S				— Г	default
	Message Id	Message Status		From Party Id		To Party Ic	domibus_c2dom1
B Messages	Q Search Advanced					L	domibus_c2dom2
- Message Filter	10	-					Show columns
Error Log							
🖹 PMode 🗸 🗸	Message Id	From Party Id	To Party Id	Message Status	Received ~	AP Rol	e Message Type A
JMS Monitoring	No data to display						
Or Truststore	0 selected / 0 total						

Figure 14 – Admin console for AP admin.

## **5.** CONTACT INFORMATION

#### **CEF** Support Team

By email: CEF-EDELIVERY-SUPPORT@ec.europa.eu

Support Service: 8am to 6pm (Normal EC working Days)