EUROPEAN COMMISSION

DIRECTORATE-GENERAL INFORMATICS

Quick start guide

CIPA E-Delivery VirtualBox

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Document History

Version	Date	Comment	Modified Pages
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1.01	04/02/2015	Added Domibus configuration details	
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1. INTRODUCTION

The CIPA e-Delivery system as a whole consists out of 3 Major components, the SML, the SMP and the dispatcher with his back-end access points.

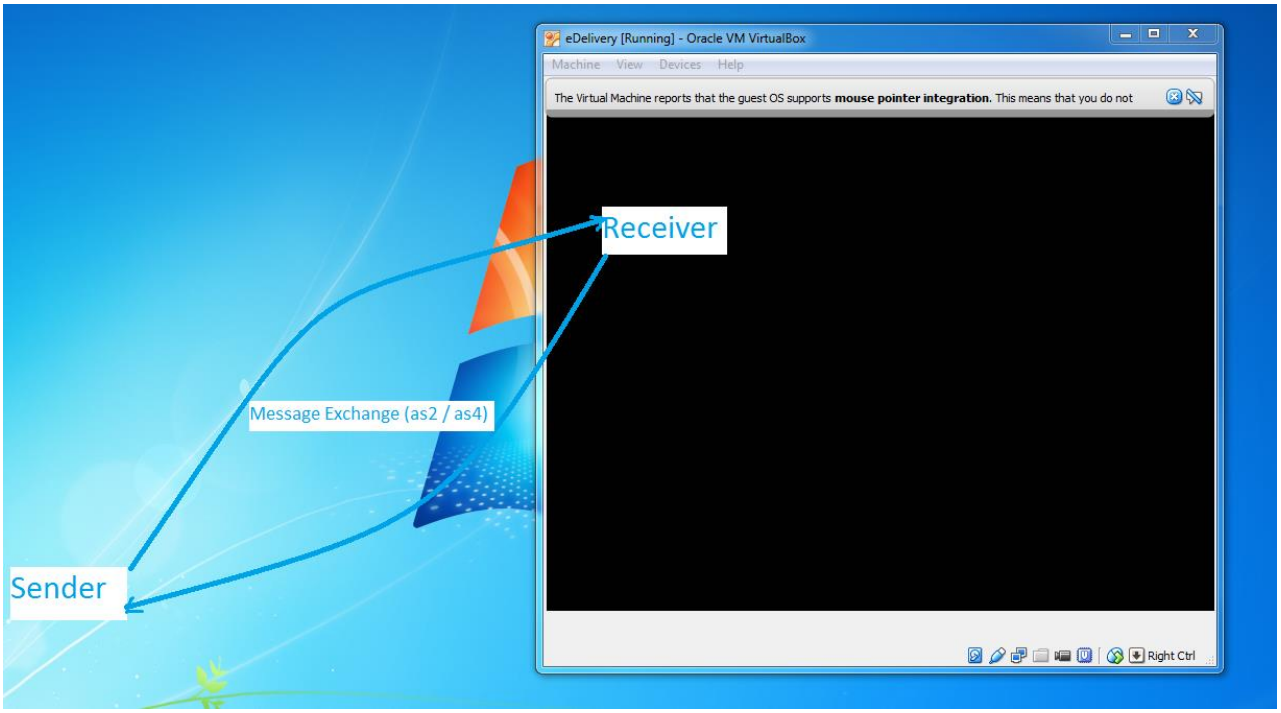
For easy internal testing we have developed a 2 component testing suite consisting out a preconfigured jboss instance and a preconfigured Virtual box appliance.

The virtual-box appliance is pre-configured to act as the receiving party, it will run on your physical machine and act like a 2nd machine being the receiving party of the tests.
On this appliance we have pre-installed and configured the following components:

- CIPA e-Delivery dispatcher
- CIPA e-Delivery SMP
- Mendelson open-source edition (as2-server)
- Domibus (as4-server)

The pre-configured tomcat instance is intended to be the sending party, this package you should extract on your physical machine.

This is a brief description for the installation of the sender, using Mysql on the standard port 3306.
If you are using Oracle or Mysql running on a non-standard port, we would like to refer you to the Full installation manual which is more detailed.



2. PREREQUISITES

You will need the following software for proper functioning:

- Java runtime environment version 7 or higher (http://www.oracle.com/technetwork/java/javase/downloads/index.html)
- The JCE Unlimited Strength Policy files
  ex. For jre7 (http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html), copy the jar-files from the extracted zip to <JRE_HOME>\lib\security.
  Needed for using the peppol certificates which have an encryption of more than 128-bit.
- Oracle Virtual box (https://www.virtualbox.org/wiki/Downloads)
  Used for running the receiver virtualBox image created for easy testing.
- Soapui (http://www.soapui.org/)
  Tool for running automated Soap test, as provided in the distribution.
- MYSQL database server on the sending party (your local machine), configured on the standard port 3306 (http://dev.mysql.com/downloads/windows/installer/5.6.html)

Please install the above software on your host machine, for further information and installation details we gently forward you to the websites of the manufacturers.

3. ACQUIRE THE NEEDED COMPONENTS

Download these components from the e-Delivery release page:
https://joinup.ec.europa.eu/software/cipaedelivery/asset_release/cipa-e-Delivery

- The virtualBox image for the receiver.(eDelivery.ova)
- The zip-distribution for the CIPA e-Delivery dispatcher. (cipa-edelivery-distribution-2.4.0-complete-jboss.zip)

4. CONFIGURE YOUR ENVIRONMENT

4.1. Sender

- Extract the zip file containing the installation package of the CIPA E-Delivery dispatcher to a location on your physical machine, which we refer to in this document as your e-Delivery installation path.

```
mysql -h localhost -u root --password=root -e "drop schema
if exists edelivery;create schema edelivery; create user
edelivery identified by 'edelivery';grant all on
edelivery.* to edelivery;"

mysql -h localhost -u root --password=root edelivery <
create-mysql.sql
```

- Execute the following commands on the command prompt
  Navigate to this directory <e-Delivery installation Path>\sql-scripts
  Note If you are using windows make sure to have mysql.exe added to your PATH variable.

- Start the sender using the bin/standalone.sh (for Linux) or the bin/standalone.bat (windows).
  Your Sender is now ready for sending messages.

4.2. Receiver

Import the Virtual box appliance file into the VirtualBox instance on your desktop by clicking on the menu File -> Import appliance: select the eDelivery.ova file from your computer, click open and the next on the following screen.
Do not activate the option of reinitializing the mac-address in the screen you see now, but just click Import to start the import process.
For further information about using Oracle Virtual Box we refer you to their website.
https://www.virtualbox.org

Start the virtual machine from the Oracle VirtualBox Manager, as soon as it is started up, showing the login prompt, the receiver is ready for receiving documents.

5. TESTING

This test will use the sender instance of your local computer and will send a message towards the receiver. The sender will first contact the SMP of the receiver to get the metadata and will then call Mendelson to actually send the AS2 message or Domibus to send the AS4 message. The SMP database of the receiver already contains the certificate and the metadata for the participant.

The test file is in the extract of the distribution zip under the folder test/**AS2-AS4-soapui-project.xml**

Import the test project under SOAP UI (File -> import project)

5.1. AS2

This AS2 TestSuite sends an SBDH-document form the sender towards the AS2 receiver using the AS2 implementation Mendelson.
Mendelson uses files to send, receive and process messages, so we can verify the file system to makes sure the document has been received correctly. For making this verification easy, we integrated a simple file-browser app on the receiver.

You can run this test by clicking in the left pane of SoapUI: AS2 TestSuite > Send AS2 Message > Send AS2 Message

5.1.1. Expected result

- In SOAP UI, the HTTP response is 200 OK
- On your local computer, you can find the message that has been sent on : <e-Delivery installation Path>/filestores/as2/messages
- In your browser you can open the application url http://192.168.56.11:8080/browser to navigate towards this path on the virtualbox machine: /home/adminuser/cipa-edelivery-distribution/filestores/as2/messages/receiverCN/inbox/
  In this directory you can verify if the as2 message is received correctly)

NOTE:

If you encounter connection timeouts on the test you should augment, the Socket Timeout setting of SoapUI. This can be done following File -> Preferences, in this screen on the Http Settings tab, you can change the Socket Timeout setting here and preferably you set it at least to 300000 ms (5 minutes).

5.2. AS4

This AS4 TestSuite sends an SBDH-document from the sender towards the receiver using the AS4 implementation Domibus.
Domibus uses webservices to send and receive AS4 messages.

After the initial sending of the AS4 message, the testsuite will wait check every second on the receiver-side if the message arrived.

- run this test: AS4 TestSuite > Send AS4 Message or AS4 testSuite

5.2.1. Expected result

- "send as 4 message" gives 201 created as result
- "check available messages" gives a soap response as result with the messageID in it
- "List of pending AS4 messages (receiver)" gives a soap response as result with the messageID in it
- "Retrieve the AS4 message (receiver)" outputs the received message in a soap-response.

6. ANNEX

Parameter	Sender on local computer	Receiver in the VirtualBox
IP	localhost	192.168.56.11
Participant ID	0088:5798000000001	0088:5798000000020
Certificate	Self-signed Alias: senderAlias CN: senderCN	Self-signed Alias: receiverAlias CN: receiverCN
SMP base url		http://192.168.56.11:9080/cipa-smp-full-webapp
Dispatcher base url	http://localhost:8080/cipa-dispatcher	http://192.168.56.11:9080/cipa-dispatcher
Medelson base url	http://localhost:8080/mendelson	http://192.168.56.11:9080/mendelson
Domibus base url	http://localhost:8080/domibus	http://192.168.56.11:9080/domibus
Databases	Edelivery database jdbc:mysql//localhost:3306/?user=edelivery&password=edelivery Etrustex database jdbc:mysql//localhost:3306/?user=trustex_user&password=trustex_passw	Edelivery database jdbc:mysql//192.168.56.11:3306/?user=edelivery&password=edelivery Etrustex database jdbc:mysql//192.168.56.11:3306/?user=trustex_user&password=trustex_passw
OS login		Username: adminuser Password: adminuser