OpenPEPPOL Test and Onboarding

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This Document relates to: OpenPEPPOL Testbed and Onboarding

**Revision History**

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Scope
This document provides guidance on how to use the OpenPEPPOL testbed when onboarding as a new Access Point (AP) in the PEPPOL eDelivery Network. It explains the prerequisites and walks you through the onboarding process.

1. OpenPEPPOL Testbed

The OpenPEPPOL testbed will be used for onboarding new AP Service Providers initially, and later SMP (Service Metadata Publisher) providers, aiming to ensure compliance to the PEPPOL eDelivery Network. The testbed will support AS2 and AS4 testing and will be based on self-initiated test using automated testing procedures with as little human interaction as possible.

Successful completion of Acceptance testing will be validated through evaluation of test results by the OpenPEPPOL Operating Office. A positive result is required before OpenPEPPOL can issue a PEPPOL PKI production certificate allowing the new service provider to enter into production mode.

2. The Onboarding Process

2.1. Prerequisites and configuration

The following prerequisites must be met by the testing service provider before initiating any test sessions:

- Make sure you have your PKI v3 AP Test certificate at hand. The certificate needs to be imported in your browser and to be used for client authentication.
- Make sure you have the URL for your AS2/AS4 endpoint ready.
- Make sure you are using “acc.edelivery.tech.ec.europa.eu” as the SML (Please consult the documentation for the access point software you are using).
- Your AP must implement HTTPS with certificate chains to Certificate Authorities (CAs) which are trusted by the PEPPOL community. Your certificate must be trusted by both Microsoft and Oracle CAs. Self-signed certificates are considered non-compliant and will not be accepted when onboarding as a PEPPOL service provider. To test your SSL configuration, go to: https://www.ssllabs.com/ssltest/. It must be grade A or above. This will eventually also be controlled by the OpenPEPPOL Operating Office.
- Your AP URL MUST only refer to HTTPS.
- Your AP URL SHOULD use the default port 443. This assures firewall rules are often setup in advance.
- Your AP MUST be accessible over the Internet.
2.2. Entering the Testbed for the first time

Before you visit the Testbed for the first time you must install your PEPPOL PKI Test Certificate in your browser as this is used to create your Testbed user account.

Windows - Internet Explorer
Windows - Firefox
Windows - Chrome
OS X - Generic

2.3. Starting a test session

After installing the PKI certificates, go to: https://testbed.peppol.eu/secure/suite/view

You will be prompted by the browser to identify yourself with a certificate, choose your AP TEST certificate.

An example of the prompt (might look different in your environment depending on your OS and browser)
The link will bring you to the overview of your active test suites. If this is your first login (or you haven’t enrolled for any suite) you will see the following view.

To enrol for a suite, click the “+” button.

You will be presented with predefined test suites to choose from. Some test suites might support multiple Testbed implementations, giving you the ability to run your conformance test against different Access Point implementations (Oxalis, Domibus, Holodeck etc). In phase one of the Testbed only testing against Oxalis is available.
You can retrieve more details about a test suite by clicking the “▼” down caret symbol.

To complete the enrolment, choose the required suite and fill in the following information;

**Test Bed Implementation**: Choose which implementation you want to test against.

**Endpoint URL**: Enter the URL of your AS2 or AS4 endpoint of your Access Point.
Receiving Participant: Enter a Participant Identifier that your AP accepts (you do NOT need to publish this participant in an SMP or SMK/Test SML).

After you have entered all the details click the “Enroll” button.
Confirmation of successful enrolment.

Your view of enrolled suites has now been updated and displays your choice. Click the “▼” down caret symbol to open the controls of the test cases.
Running the test cases

Your first (#1) test case is selected. In header of the test case you can see that this is an “OUTBOUND” test and that the status is “PAUSED”. Please refer to the “HELP” button for definitions of the different types and statuses.

According to the description, this case will send a transaction from the Testbed to the AP URL endpoint that was provided at enrolment of the test suite. Press the “play” button to start the test.
After the transaction is completed the result are presented instantly in an audit log along with the instance identifier that was used when carrying this transaction. In this situation the transaction was successful and the test case has been marked as “PASSED”.

If the test is a fail the audit log would provide information about why the action was unsuccessful. After correcting the error, the test can be restarted by clicking the “restart” symbol. A “PASSED” test can also at any time be restarted.

The next case will now be made available. This test is an inbound type which expects a transaction to be sent from your Access Point to the Testbed. Before you can initiate and send such a transaction, the test case needs to be put in running mode, by pressing the “play” button.
Now the test case is running and expecting to receive something from your Access Point. In this situation, according to the description, you are requested to send back the same payload that you received in the previous test case but with some values changed. It is absolutely essential that you keep the “cbc:ID” element of the payload intact in order for the test bed to be able to correlate the inbound transaction.

Note: If you fail to provide the same ID in the payload, the Testbed will not be able to correlate your request and the test case will remain in running status. If you end up in a situation where you are sending successful transactions but the test case never updates, then it is usually due to not reusing the stated ID.

To simulate an error the screenshot below simulates a transaction where we have not followed the instructions.
#2 INBOUND Testing AP sends back to Testbed

**Description:**
The AccessPoint under test is expected to return the same document that was sent to the AP in the previous test case. Before the document is sent it needs to be modified in terms of sender and receiver. Sender will now be 0007:5568107295, and receiver will be 0088:5798123567890. The changes need to be applied both in the SBDH envelope as in the payload of the SBDH, no other changes should be made to the document and it is essential that the Document ID (Invoice number or Order number of the payload) is kept intact.

**Audit log:**

<table>
<thead>
<tr>
<th>Event time:</th>
<th>Action:</th>
<th>Description:</th>
<th>Status:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-10-26T10:29:55</td>
<td>START</td>
<td>Test setup and expecting to receive a transaction from testing AP. In order for the system to be able to correlate the incoming transaction it is essential that the Document ID of the payload is set to ‘POP000055-1-20181026T102950’:</td>
<td>RUNNING</td>
</tr>
<tr>
<td>2018-10-26T11:15:57</td>
<td>RECEIVE</td>
<td>Received transaction contained validation errors (8 errors)</td>
<td>FAILED</td>
</tr>
</tbody>
</table>

The Testbed correlates the request and updates the user interface with the result. In this case we have an error reported. Click the “error” link to obtain more information.
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A detailed description is provided for all the errors. This must be used to identify and correct these problems. Before you resend the transaction, make sure to restart the test case by clicking the “restart button”.

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The Testbed is once again prepared to accept a transaction for this test case. Now you can resend the transactions.
#2 INBOUND Testing AP sends back to Testbed

Description:
The AccessPoint under test is expected to return the same document that was sent to the AP in the previous test case. Before the document is sent it needs to be modified in terms of sender and receiver. Sender will now be 0007:5568107295, and receiver will be 0088:5798123567890. The changes needs to be applied both in the SBDH envelope as in the payload of the SBDH, no other changes should be made to the document and it is essential that the Document ID (Invoice number or Order number of the payload) is kept intact.

Audit log:

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<td>2018-10-26T10:29:55</td>
<td>START</td>
<td>Test setup and expecting to receive a transaction from testing AP. In order for the system to be able to correlate the incoming transaction it is essential that the Document ID of the payload is set to 'POP000055-1-20181026T102950'.</td>
<td>RUNNING</td>
</tr>
<tr>
<td>2018-10-26T11:15:57</td>
<td>RECEIVE</td>
<td>Received transaction contained validation errors. (8 errors)</td>
<td>FAILED</td>
</tr>
<tr>
<td>2018-10-26T11:22:26</td>
<td>RESTART</td>
<td>Test setup and expecting to receive a transaction from testing AP. In order for the system to be able to correlate the incoming transaction it is essential that the Document ID of the payload is set to 'POP000055-1-20181026T102950'.</td>
<td>RUNNING</td>
</tr>
<tr>
<td>2018-10-26T11:24:04</td>
<td>RECEIVE</td>
<td>Received transaction matched correctly.</td>
<td>PASSED</td>
</tr>
</tbody>
</table>

Transaction was accepted without any reported errors. Test case is marked as “PASSED”.

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When the above step has been completed you will move on to the next test case of the suite.

Repeat the steps for the remaining test cases and please pay close attention to the instructions.
When the last test case has been carried out the Test Suite is automatically marked as completed by the user interface.

A PDF report is now made available for download, please click the PDF-icon.

### 2.4. Finalizing and submitting test report

When you have downloaded your test report it needs to be uploaded to the PEPPOL Service Desk of. The Service Desk can be accessed here:

https://openpeppol.atlassian.net/servicedesk/customer/portal/1

In here you choose the request type called “Test and Onboarding”: 
Please fill in all the necessary information and make sure you attach the test report. OpenPEPPOL Operations will then review your test and if everything is OK they will prompt you to request your Production PKI certificate through the PEPPOL Service Desk.