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## **PEPPOL Access Point Configuration and Testing**

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## Document History

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# 1. Access point configuration

The Open e-Prior PEPPOL Access Point needs a few steps of configuration to make it work correctly inside the PEPPOL infrastructure.

After downloading the Open e-PRIOR release from OSOR, please follow the steps below:

- Order 2 (minimum) test Participant IDs from PEPPOL. These IDs will be used as sender and recipient IDs to test the Access Point. Please use the following registration form to order the Participant IDs:

[https://spreadsheets.google.com/a/peppolinfrastucture.com/viewform?hl=en\\_GB&formkey=cjEwcNNaLTQ0djC0dGoyWIEwS212WWc6MA](https://spreadsheets.google.com/a/peppolinfrastucture.com/viewform?hl=en_GB&formkey=cjEwcNNaLTQ0djC0dGoyWIEwS212WWc6MA)

- You will receive an email containing the Participant IDs and user names/passwords to configure them on the test SMP.
- Go to the test SMP web page (you will find the link on the previous mail) and set, as Access Point address, the address of your Open e-PRIOR PEPPOL Access Point:

`https://<ip_of_your_jboss_installation>:8443/PeppolAccessPointWebService/accesspointService`

Please note that your JBoss Server must be accessible from the Internet, in order to let other Access Points to send it messages from outside your network.

- The same participant IDs are used inside Open e-PRIOR to check if a particular User/Supplier has the authorization to send documents to a given Customer. A test PEPPOL Supplier and a test PEPPOL Customer are already present in Open e-PRIOR distribution Database, but they have to be updated with the actual Participant IDs. For this purpose, connect to Open e-PRIOR Database and use the following SQL statements:

```
update SUP_TB_SUPPLIER set SUP_EAN_CD='<replace_with_ID1>' where SUP_ID=6;
```

```
update EPR_TB_INTERNALDEPT set IDP_EAN_CD='<replace_with_ID2>' where IDP_ID=1;
```

where ID1 and ID2 are the two PEPPOL Participant IDs you have received from PEPPOL, without the leading "0010:" characters. For example, if the Participant ID received is "0010:5798000000001", the ID to be inserted in the Database is "5798000000001".

When testing, ID1 will be used as Sender ID, while ID2 will be used as Recipient ID.

- PEPPOL Access Point uses X.509 V3 certificates to identify senders/receivers and to calculate message signatures. X.509 certificates are usually stored into key stores and trust stores. The key store contains the certificate used by the Access Point when sending outgoing messages, while the trust store contains the list of trusted certificates used to validate incoming messages. In Open e-PRIOR PEPPOL Access Point distribution, you can find the two stores at the following paths:

`<JBoss_HOME>\server\default\conf\keystores\keystore.jks`

`<JBoss_HOME>\server\default\conf\keystores\truststore.jks`

You can use the test PEPPOL root certificates already present in the stores, or you can generate and import into them your own certificates by using Java [keytool](#).

- If your JBoss Server lies behind a proxy, PEPPOL Access Point must be configured to access the Internet. A properties file, which path is:

```
<JBOSS_HOME>\server\default\conf\proxy.properties
```

have to be configured for this purpose.

## 2. Access point testing

Open e-PRIOR PEPPOL Access Point distribution comes with a Java testing tool, based on PEPPOL Reference Implementation BUSDOX client. It can be found under PeppolTestClient directory on OSOR SVN.

The tool allows the user to send an XML document to the Access Point.

It connects to the test SMP to retrieve the URL of the Access Point which the recipient is connected to. The retrieved URL should be your Open e-Prior PEPPOL Access Point installation URL if:

- The Participant IDs ordered from PEPPOL is used as recipient ID
- The recipient ID have been correctly configured inside the SMP (see previous section)

After getting the Access Point URL, the test client sends the document to the Access Point using START profile.

To configure the client, use the TestClient.properties file under the previous directory. Here are the most important properties to configure:

- **XMLDocumentFile**: full path of the document to send.
- **Proxy settings**: use these settings if you need to pass through a proxy to access the Internet
- **senderBusinessID** and **recipientBusinessID**: replace these two IDs with the ones you have received from PEPPOL by using the registration form.
- **documentID**: the document type (Invoice, Credit Note, etc.) being sent to the Access Point. Some predefined document types are already present into the properties file itself. Choose the one you need by uncommenting the related line.
- **processID**: ID of the BII profile which the document is participating in. Some predefined process IDs are already present into the properties file itself. Choose the one you need by uncommenting the related line.

To sign outgoing messages and to check responses, the test client uses a keystore and a truststore which is contained under the PeppolTestClient/keystores directory. Here are the paths of the two files:

```
PeppolTestClient\keystores\client-keystore.jks
```

PeppolTestClient\keystores\client-truststore.jks

To make the authorization work successfully, the client and the Access Point must trust each other. Therefore, the certificate in the client keystore must be present in the Access Point truststore, and the certificate in the Access Point keystore must be present in the client truststore. Client and Access Point stores are already configured with test certificates to meet this requirement, but, as described in the previous section, own certificates can be used by using java keytool.

After sending a document via the PEPPOL Test Client, the actual processing by Open e-PRIOR can be verified using the synchronous services (StatusRequest, QueryRequest). Please use PeppolUser/PeppolUser as username/password for basic authentication when calling the synchronous services.

In the current release, Open e-PRIOR PEPPOL Access Point is only capable of receiving messages and forwarding them to the Open e-PRIOR application. The opposite direction, i.e. to send messages coming from Open e-PRIOR to a PEPPOL recipient, is not implemented.

Subsequent versions of this document will explain how to test PEPPOL Access Point outbound messages sending.