**CIPA e-Delivery**

*Test Framework*

**Document history**

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# Overview

The CIPA test framework consists of test cases and supporting tools to assist the user in running test cases for the supported CIPA components:

* Service Metadata Locator (SML),
* Service Metadata Publisher (SMP),
* Access Point (AP).

# Test Cases

The test cases are detailed in a worksheet per component (SML, SMP and AP).

Each worksheet consists of:

* a "Test results" page where a summary of the "passed", "failed" and "not run" test cases is displayed.
* A "Test details" page where the test cases are explained in detail, together with guidelines on how to perform the tests.

The user can use this worksheet as a guide during a test session and complete the blank fields based on the results of his test run.

The resulting completed worksheet can then be discussed with team members or shared with other parties for information or follow-up.

The current set of test cases is extracted from the PEPPOL specification documents. Future versions of the test framework could include e.g.:

* Test cases based on community feedback,
* Test cases based on additional specifications or requirements,
* Regression tests based on bug-fixes.

# Supporting Tools

Supporting tools help the user to call the services exposed by each component (SML, SMP and AP). To test the scenarios in the different test cases, the user can either change the test data or enable some test options depending on the tool.

## Instructions SoapUI

For the SML and SMP, a SoapUI project is available to call the SOAP services or REST services using sample data.

SoapUI is 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 projects in this package.

Download SoapUI free via <http://www.soapui.org/> and follow the installation instruction on the website.

Inside SoapUI, create a new workspace (File->New Workspace) and load the two projects in this package (File->Import Project).

To enable two-way SSL, update the keystore settings via (File->Preferences->SSL Settings).

If a username/password is required, it can be configured in the Request Properties of each service request.

Update the WSDL URLs and service endpoints of the SML test.

Update the REST Endpoints and Resource Paths of the SMP test.

Modify the Request in the left window to your requirements and press the green play/send button to submit the request and to see the response in the right window.

## Instructions Access Point Client

For the AP, an Access Point Client is available to call the AP services using sample data.

Unzip ApClient.zip to your disk and follow the instructions in the readme.txt file to configure the client and send messages to the AP.

Since the Access Point Client is identical to the sender component (uses the send API) of the Access Point, the Access Point Client can also serve the role as source Access Point in several test cases.

## Other tools

Some test cases require manual checks. To help the user in executing these test cases, other tools not included in this package can be used.

Verifications to be done in the message exchange data can be facilitated using a network protocol analyser (e.g. Wireshark is a free and open source tool whereby a user can trace and analyse his network connection). To facilitate the network trace and for testing purposes, temporarily configure the services to use HTTP instead of HTTPS.

Verifications on web-service interoperability (WS-I) can be facilitated using the tools available from <http://www.ws-i.org/deliverables/matrix.aspx>