OpenPeppol AS4 webinar

17-12-2019
1. Status of AS4 migration and migration policy

2. Presentation of AS4 gateway implementations and products

3. Onboarding test procedures for AS4

4. Questions from Members on implementation aspects.
AS4 migration status and policy
Jesper Larsen – OpenPeppol Support Lead
Current status and planning for the migration to AS4

- 67 AS4 certified Peppol Service providers (incl. AU-NZ and other only AS4 providers)
- 40 providers are currently doing the AS4 test
- Out of 261 already AS2 certified providers 203 are missing AS4!

Actions:
- Monthly reports being sent to PAs for escalation
- Communication and awareness
AS4 migration policy

• Explains the central dates, actions and responsibilities in the migration from Peppol AS2 to Peppol AS4 as the new mandatory transport protocol

• The important date is: **2020-02-01**
  ◦ On this date all Peppol service providers with a need to exchange messages in production MUST have done the Peppol AS4 onboarding test (more on this test later)
  ◦ On this date all receivers in the SML MUST be registered with the Peppol AS4 profile as a minimum
  ◦ After this date Sending Peppol Providers/Access Points are strongly encouraged to prioritize AS4 in situations where the receiver has support for both AS2 and AS4
  ◦ When the volume of exchanged messages using the AS2 protocol drops below 20% a phase out date for AS2 will be set
AS4 and AS2 Transition Timeline

17.12.2019
Today

1.2.2020
Transition date

TBD
AS2 phased out

AS4
Optional
Mandatory
Mandatory

AS2v1
Mandatory

AS2v2
Optional
Optional

Note: Not relevant if you’re not supporting AS2 after 1.2.2020!
Enforcement and monitoring

• OpenPeppol will actively monitor all receivers in the SML for AS4 support and advise accordingly

• The Peppol Authorities will actively engage all providers not ready with AS4 2020-02-01 in accordance to the compliance policy escalation

• No one is cut or revoked from the Network after 2020-02-01 as a general principle but providers missing AS4 must show active measures to getting AS4 support ASAP.

• The true parties loosing here is the end users (buyer and suppliers) if they have a Peppol provider that does not have maximum reachability because they are missing AS4 support
AS4 implementations and products
phase4

Open Source, integrateable Java solution for sending and receiving AS4 messages over the Peppol network

By Philip Helger
Key facts

• Open Source
• Java 8+
• Apache 2 licensed
• Generic AS4 solution
• Tailored solution for Peppol available
  – Certificates, SBDH, SMP lookup, Document Validation...
• Separation between client and server part
• https://github.com/phax/phase4
Pros and Cons

• Pros
  – Open Source
  – Standards based
  – Business friendly license
  – Highly customizable
  – Special focus on Peppol

• Cons
  – One man show
  – No 24/7 support available
  – No standalone version available

Commercial help is available for setting it up
philip@helger.com
Also have a look at my SMP:
Peppol gateways

http://holodeck-b2b.com/peppol
Holodeck B2B – AS4 messaging

Chasquis Peppol gateway
  – Fully tested, CEF and Peppol conformant
  – Already in use in the network
  – Fast & easy to implement
Works with your current back end
  – Stand alone solution

Integration: file based or REST API
  – SBDH based
  – Provide your business document and the gateway does the rest

Pre- and Post-Award supported
  – REM evidences with timestamp for Pre-award
Modular design for customization and upgrading
  – Easy to upgrade your gateway
  – Customer specific extensions possible

Multiprotocol option – dynamically configured
  – 1 gateway for AS4 and AS2
  – Provides flexibility in date of gateway switch
More information on our gateways:

Holodeck-B2B.com/Peppol

Questions?
Like to schedule a call to discuss gateways?

Renate@Chasquis-messaging.com
Peppol by Galaxy Gateway

Hans Berg
hans.berg@tickstar.com
+46 739 887 881

www.galaxygw.com
Peppol AS4 Access Point by Galaxy Gateway

▪ On-premise
▪ SaaS
▪ AS4 currently undergoing interop testing
▪ Peppol Testbed runs scheduled in January
Oxalis

• Oxalis version 4.1.0
  ○ Supporting AS2v1
  ○ Supporting AS2v2
  ○ https://github.com/difi/Oxalis
  ○ Video: https://vimeo.com/268449561

• Oxalis AS4 RC10
  ○ https://github.com/difi/Oxalis-AS4
  ○ Video: https://vimeo.com/366420949
CEF eDelivery - Domibus

PEPPOL AS2 to AS4 migration info session

17 December 2019
Agenda

Domibus in the PEPPOL eDelivery network

Other eDelivery AS4 conformant solutions
Domibus in the PEPPOL eDelivery network
Domibus background

- Domibus has its origins in the eCODEX project and was further refined in Large Scale Pilots such as e-SENS.
- At the end of e-SENS, Domibus and its code was transferred to the CEF eDelivery team at EC DIGIT.
- Currently, Domibus is the sample implementation e-Delivery AS4 profile solution maintained by the European Commission.
- It is implemented in Java and the source code is freely available under the EUPL 1.2 license.
Domibus in the PEPPOL eDelivery network

- Domibus successfully passed the AS4 tests of the PEPPOL centralized test platform
- The version used was Domibus 4.01, released on 07/12/18
- PEPPOL specific configuration settings are described in the Administration Guide, available from the same location
Domibus in the PEPPOL eDelivery network

- Domibus only provides support for AS4, not for AS2
- During the AS4 migration transition period, users might need to run an additional AS2 AP
  - This means that in the SMP there will be
    - An entry for the Domibus AS4 URL using the transportProfile attribute value “peppol-transport-as4-v2_0”
    - An entry for the other implementation’s AS2 URL using the transportProfile attribute value “busdox-transport-as2-ver1p0”
    - After the transition period the AS2 AP and it’s associated SMP entry can be removed
## Roadmap for Domibus

<table>
<thead>
<tr>
<th>Release</th>
<th>Status</th>
<th>Features</th>
<th>Release Date</th>
<th>End of Support</th>
</tr>
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<tr>
<td>v4.3</td>
<td>PLANNED</td>
<td>-</td>
<td>2021</td>
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<tr>
<td>v4.1</td>
<td>LTS</td>
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<td>29.11.2021</td>
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<td>v4.1.2</td>
<td>CURRENT</td>
<td>-</td>
<td>29.11.2019</td>
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</table>

- Possibility to visualize the non-repudiation receipts in the Admin console
- Technical improvements
- Maintenance of Domibus 4.1
- Maintenance of Domibus 4.2

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More information on CEF Digital

Domibus releases
Are you aware of any issues or limitations?

- **eDelivery Governance and Procedures** are documented on a public Internet Page:
  - [https://ec.europa.eu/cefdigital/wiki/display/EDELGOV/Governance+and+Procedures](https://ec.europa.eu/cefdigital/wiki/display/EDELGOV/Governance+and+Procedures)

- **Change Requests, public consultations and reports** can be followed up via a page that requires a EU Login account:
  - [https://ec.europa.eu/cefdigital/wiki/display/EDELGOV/](https://ec.europa.eu/cefdigital/wiki/display/EDELGOV/)
Other eDelivery AS4 conformant solutions
This page lists the solutions that have passed or are in the process of passing the conformance testing according to the eDelivery AS4 profile:

- Axway
- B2BRouter
- Babelway
- Bizbrains
- Domibus (EC sample implementation)
- efacta Server
- EESSI AS4.NET
- Edicom ASx Server
- Data Interchange
- DCS EIP
- Flame
- Holodeck B2B
- IBM
- JFenix
- Laurentius
- Mendelson
- Navitasoft - IP Systems AS4-IP
- Nota
- OXALIS
- Pagero
- phase4
- RSSBus
- SEEBURGER
- ViaAdValvas Gateway
- ADES
- Integration Cloud

A document listing all vendors supporting AS4, including the ones that have not gone through the CEF conformance testing process, is available at bottom of this page.
eDelivery AS4 conformant solutions evolution
For questions or support contact:

CEF-EDELIVERY-SUPPORT@ec.europa.eu
AS4 onboarding testing process

Jesper Larsen – OpenPeppol Operations Support Lead
Mikael Aksamit – OpenPeppol Operations 2nd level support
Peppol testbed

• Test Bed managed by OpenPeppol Operations

• Self service – No human interference needed from OpenPeppol

• Your test certificate gives you access to the testbed service
  ○ Obtained through the service desk: https://openPeppol.atlassian.net/servicedesk/customer/portal/1
Pre-requisites

• Prerequisites

○ Read the Testbed guide

○ Make sure your SSL configuration is correct (Grade A or above)

○ Try to complete at least one successful transaction in your own unit test

○ No need to publish participants in the SMP/SMK during the test
Test process

- Configure your browser to be allowed using Peppol certificates for client authentications
- Enroll for a Test Suite
- Follow the steps and complete the Test Cases
Test process

- Configure your browser to be allowed using Peppol certificates for client authentications
- Browse: https://testbed.Peppol.eu/secure/suite/view
- Enroll for a Test Suite
- Follow the steps and complete the Test Cases (one finished testcase opens the next)

- Test case 1: Testbed sends a BIS Invoice to tester
- Test case 2: Tester sends back the BIS Invoice to testbed
- Test case 3: Testbed sends a large BIS Order to tester
- Test case 4: Tester sends the large BIS Order back to the testbed
Test result

**Active Test Suites:**

**AS4 Conformance/onboarding test suite. Version 2.0**

- **Enrolled:** 2019-10-31T15:30:47
- **Status:** COMPLETED
- **AS4 Endpoint:** http://phax.moo.com/c2/as4
- **Certificate:** POP000306 (PEPPOL TEST AP)
- **Completed:** 2019-11-01T21:50:36
- **Configure receiver:** 9914:abc

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Type</th>
<th>Status</th>
<th>Result</th>
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</thead>
<tbody>
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<td>COMPLETED</td>
<td></td>
</tr>
<tr>
<td>#222</td>
<td>INBOUND</td>
<td>COMPLETED</td>
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</tr>
<tr>
<td>#232</td>
<td>OUTBOUND</td>
<td>COMPLETED</td>
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</tr>
<tr>
<td>#242</td>
<td>INBOUND</td>
<td>COMPLETED</td>
<td></td>
</tr>
<tr>
<td>#252</td>
<td>INBOUND</td>
<td>COMPLETED</td>
<td></td>
</tr>
</tbody>
</table>
Experiences so far

- Self customized or self build AS4 solutions tend to struggle completing the test
- Reading the Peppol AS4 profile correctly (referencing into other specs can be complex)
- Where to get support?

- Remember to send in the test report if you want to onboard!
Useful links

- Testbed: https://testbed.Peppol.eu/secure/suite/view
- Peppol AS4 profile: http://docs.Peppol.eu/edelivery/as4/specification
- Peppol AS4 implementations: https://Peppol.eu/downloads/Peppolimplementations/
- Certified AS4 providers: https://Peppol.eu/who-is-who/certified-as4-Peppol-service-providers/
- Peppol Jira Service desk: https://openPeppol.atlassian.net/servicedesk/customer/portal/1
Questions