

OpenPeppol AS4 webinar

17-12-2019

www.Peppol.eu

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Agenda

- 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





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



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Peppol AS4 Access Point by Galaxy Gateway

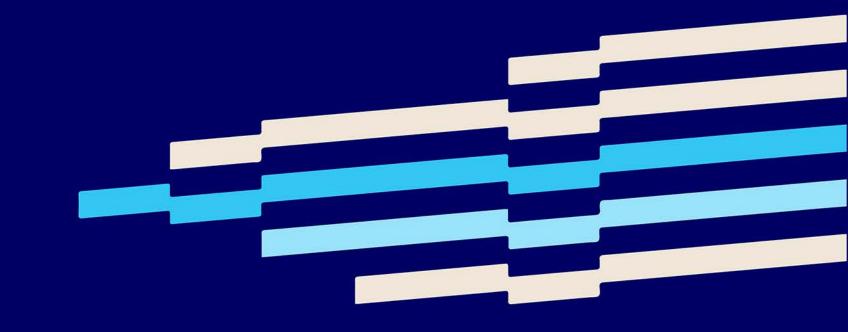
- On-premise
- SaaS
- AS4 currently undergoing interop testing
- Peppol Testbed runs scheduled in January

www.galaxygw.com



Oxalis AS4

Klaus Vilstrup Pedersen kpe@digdir.no Difi



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









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
 - The latest release 4.1.2, released in November 2019, is available from https://ec.europa.eu/cefdigital/wiki/display/CEFDIGITAL/Domibus
 - 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

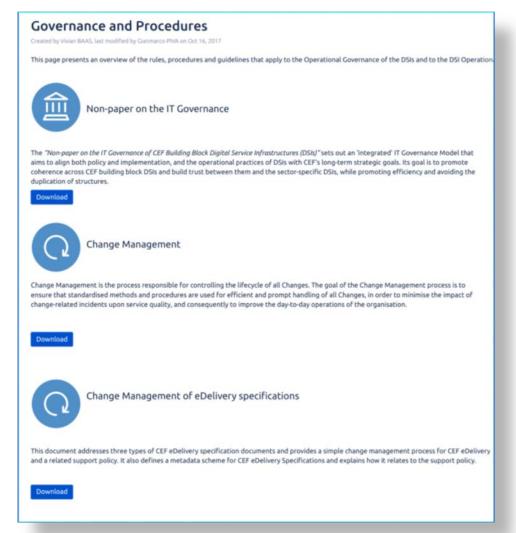
More information on CEF Digital

Domibus releases

Release	Status	Features	Release date	End of support
v4.3				
	PLANNED	Possibility to visualize the non-repudiation receipts in the Admin console Technical improvements Maintenance of Domibus 4.1 Maintenance of Domibus 4.2	2021	2
v4.2				
v4.2	PLANNED	Possibility to prioritize sending messages based on predefined criteria: based on service and action, or authenticated user or a message property Improve Pmode configuration tool with scalable solution Technical improvements Maintenance of Domibus 4.0 Maintenance of Domibus 4.1	21.09.2020 (RC) 10.12.2020 (FR)	10.12.2022
v4.1				LTS
v4.1.2	CURRENT	Possibility to encrypt passwords in the configuration files Possibility to encrypt payloads at rest Possibility to upload and download the current PMode via the managed REST services JMS Queues statistics FS Plugin fix to save the MessageInfo in metadata.xml Test Service improvements	29.11.2019	29.11,2021

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
- 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//



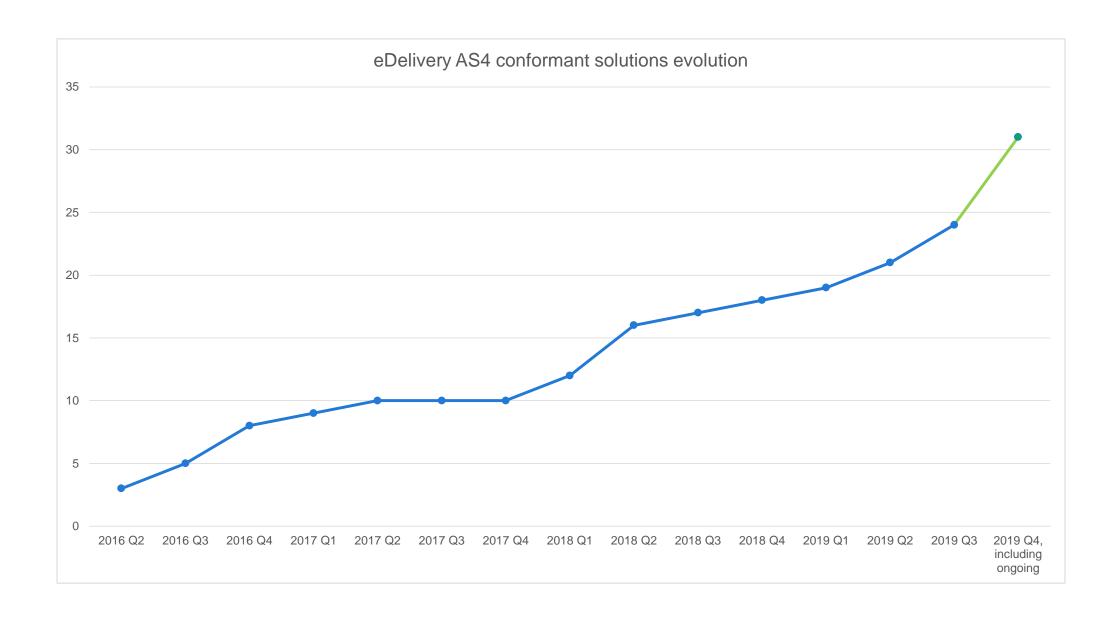
Other eDelivery AS4 conformant solutions

eDelivery AS4 conformant solutions

eDelivery AS4 conformant solutions Access Point software > eDelivery AS4 conformant > Access Point specifications This page lists the solutions that have passed or are in the process of passing the > SMP software conformance testing according to the eDelivery AS4 profile: > SMP specifications > SML software iFenix Axway B2BRouter Laurentius SML service Babelway Mendelson > SML specifications Navitasoft - IP Systems AS4-IP Bizbrains > PKI Service Domibus (EC sample implementation) Nota eefacta Server OXALIS Security Controls guidance EESSI AS4.NET Pagero Connector specifications Edicom ASx Server phase4 Onboarding & stakeholders Data Interchange RSSBus follow-up SEEBURGER DCS EIP eDelivery Conformance Flame ViaAdValvas Gateway Holodeck B2B ADES eDelivery Connectivity testing IBM Integration Cloud Cost estimation tool Self-assessment tool A document listing all vendors supporting AS4, including the ones that have not gone eDelivery Service Desk through the CEF conformance testing process, is available at bottom of this page. > Training and Deployment eDelivery Developers Community LEGEND Trust Models Guidance Common Profile Four Corner Topology Dynamic Sender Dynamic Receiver

More information on CEF Digital

Conformant Solutions >



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 though 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
- Browse: https://testbed.Peppol.eu/secure/suite/view
- Enroll for a Test Suite



Follow the steps and complete the Test Cases

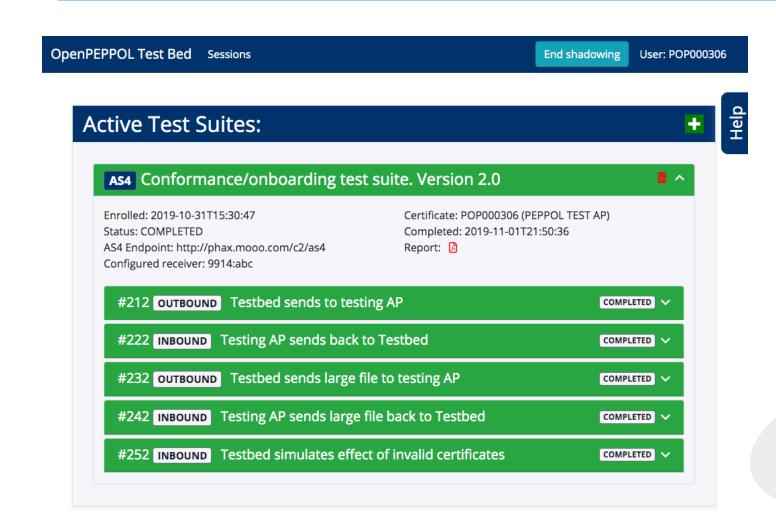


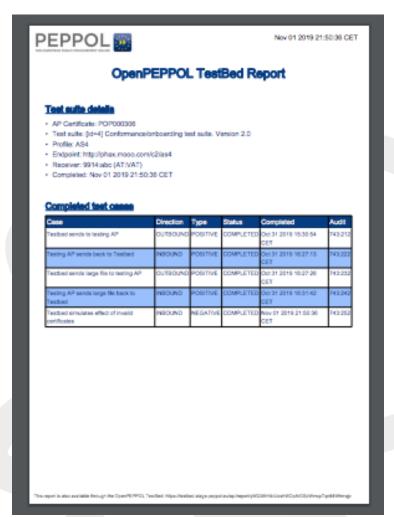
Test process

- 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







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
- Testbed guide: http://Peppol.eu/wp-content/uploads/2018/12/Peppol-Testbed-and-onboarding_v1p2.pdf
- 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







