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OpenPEPPOL and the avoidance of lock-in

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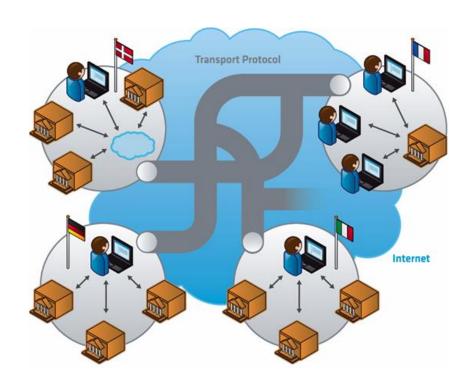


The PEPPOL project



PEPPOL Vision

"To enable businesses to communicate electronically with any European government institution in the procurement process, increasing efficiencies and reducing costs."

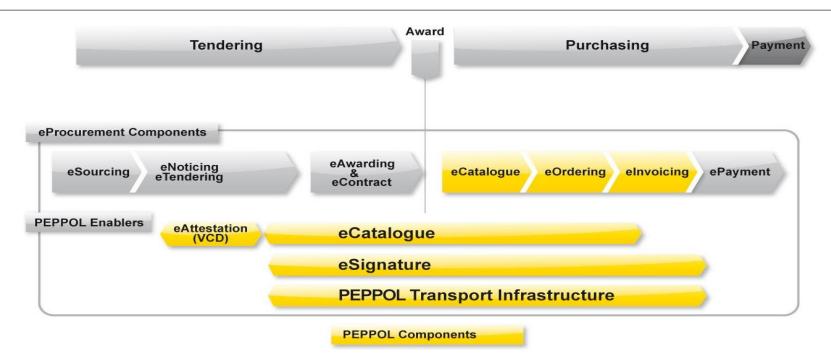


The PEPPOL (Pan-European Public Procurement On-Line) project (2008-2012) was launched to address the key e-Procurement challenges in Europe. It was jointly funded by the EC and a consortium of 18 government agencies from 11 European Countries under the CIP ICTPSP. After the successful finalisation of the project, OpenPEPPOL AISBL was established to ensure long term sustainability and governance of PEPPOL specifications and services.



PEPPOL Components: focus on the critical phases



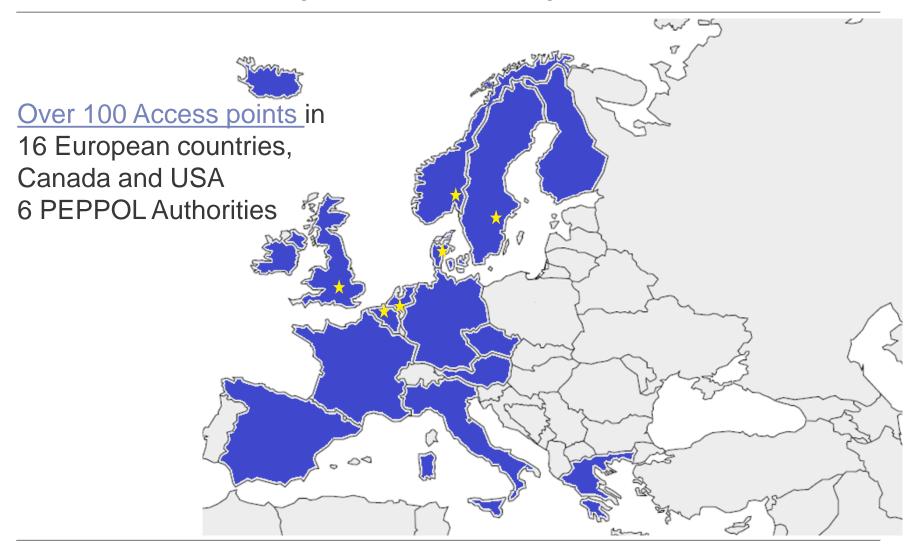


- ▶ PEPPOL Pre-award: eAttestation (VCD), eCatalogues, eSignature validation, potential use of PEPPOL Transport Infrastructure
- **PEPPOL Post-award**: eCatalogues, eOrdering, eInvoicing, eDespatch Advices. Potential use of eSignature validation and eAttestations
- PEPPOL Transport Infrastructure (eDelivery) and Governance (legal framework based on the PEPPOL Transport Infrastructure Agreements)



PEPPOL eDelivery network today

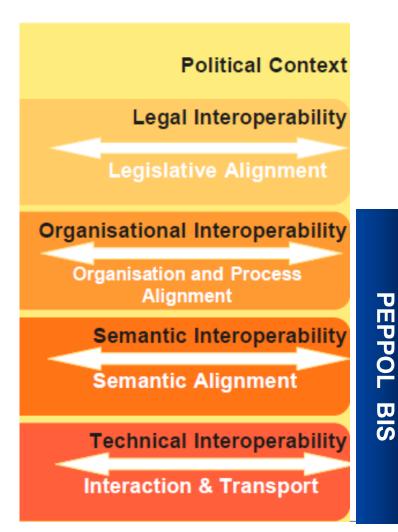






The PEPPOL Interoperability framework PEPPOL [88]





European Interoperability Framework 2.0

- Single Market II, Digital Agenda etc
- EC Communication on End-to-end eprocurement etc
- Directives 2014/24/EU, 2014/55/EU etc
- Member state legal requirements
- PEPPOL Transport Infrastructure Agreements
- CEN WS Business Interoperability Interfaces
 On Public Procurement in Europe (CEN BII)
- CEN BII Profiles + PEPPOL business rules
- CEN BII Transactions Data Models
- PEPPOL business rules
- CEN BII syntax binding towards OASIS UBL (UN/CEFACT is an option, not implemented)
- PEPPOL eDelivery network (OASIS BDXR TC)

PEPPOL network features

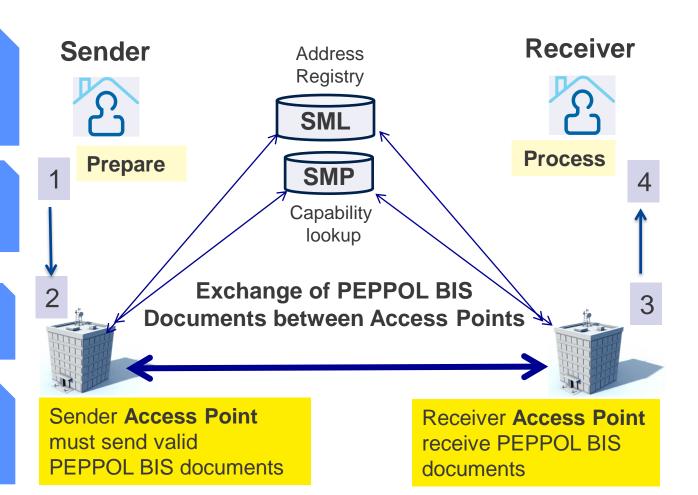


Free to choose ANY Access Point (100+) in ANY country

Sign ONE Agreement; Connect to ALL

Open FOURcorner model

NO ROAMING fees between PEPPOL Access Points





PEPPOL eDelivery Network Specifications



- Standards
 - >> UNCEFACT SBDH, supporting metadata in message transfer
 - ▶ ISO 6523 and 15459, participant identifier schemes
- The Messaging and Directory/Lookup services are based on specifications including
 - ▶ AS2, Protocol for message transfer
 - HTTP, Data transfer
 - >> XML, Mime
 - >> SSL/TLS, Message security
 - **DNS**
 - REST
- PKI/Trust services are based on a number of standards and specifications including
 - PKCS #1 v2.0: RSA Cryptography Standard
 - ITU-T Recommendation X.509
 - >> X.509 Internet Public Key Infrastructure Online Certificate Status Protocol OCSP
 - Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile

X To help prote

PEPPOL and CEF eDelivery/eInvoicing



	Electronic Invoicing (CEF-TC-2015-1 - elnvoicing)	Electronic Delivery (CEF-TC-2015-1 –
Total Budget Funding Beneficiaries	EUR 7 million Up to 75 % of eligible cost At least 5 legal entities, from one or more EU/EEA countries, composed of a majority of public entities	EUR 1 million Up to 75 % of eligible cost At least 5 legal entities, from one or more EU/EEA countries, from the private and the public sector
Objective(s)	 To support the uptake of the receiving of electronic invoices in Europe To support solution/service providers to implement the upcoming EN and its list of syntaxes Not replace existing elnvoicing standards – national systems can continue to be used 	 Increase uptake and use of the eDelivery DSI by supporting the set-up of access points Support the cross-border exchange of electronic documents between public entities, citizens and businesses
Action(s) supported	 Support implementation of elnvoice solutions Specially on regional and local level Preferably based on CEN MUG or CEN BII Take results of European large scale pilot projects into account Solutions which are based on EU or international standards, if they envisage compliance with the future EN 	 Set up of Access Points Internal Capacity Building Architecture / Implementation Strategy Implementation Deployment and Governance
Timeline	Call opening 30 October 2015 Call closing 19 January 2016	Call opening 30 October 2015 Call closing 19 January 2016





Introduction to the Connecting Europe Facility

eDelivery building block



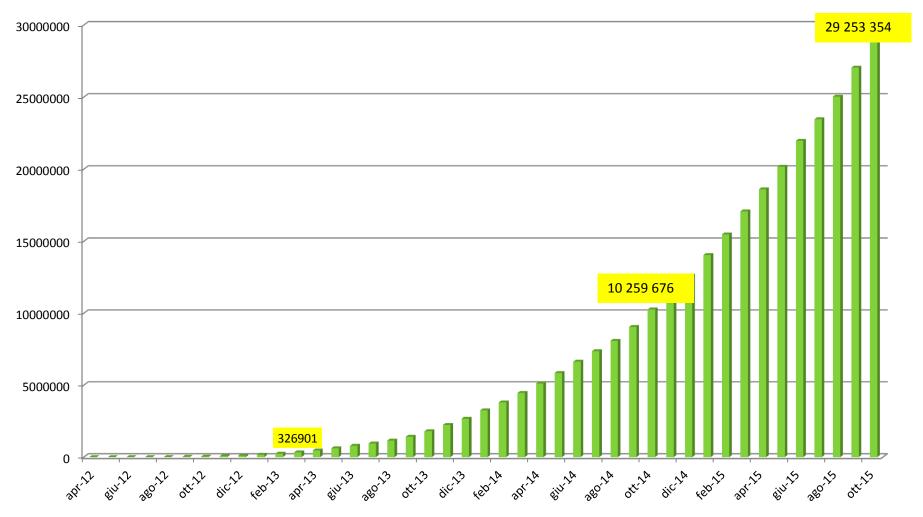
PEPPOL based elnvoicing in Norway

Norwegian approach for elnvoicing

- 1. Make elnvoicing mandatory for public sector entities
- Mandatory use of standard national e-Invoicing format, based on European standardisation
- 3. On-boarding of ERP vendors/invoice systems
- Decision to use PEPPOL eDelivery network for transport of elnvoices
- 5. Establish a national receive capability and address register = SMP/ELMA, also open for private sector
- On-boarding of access points through public sector demand
- Web-portals for simplified e-invoicing from SMEs delivered by market

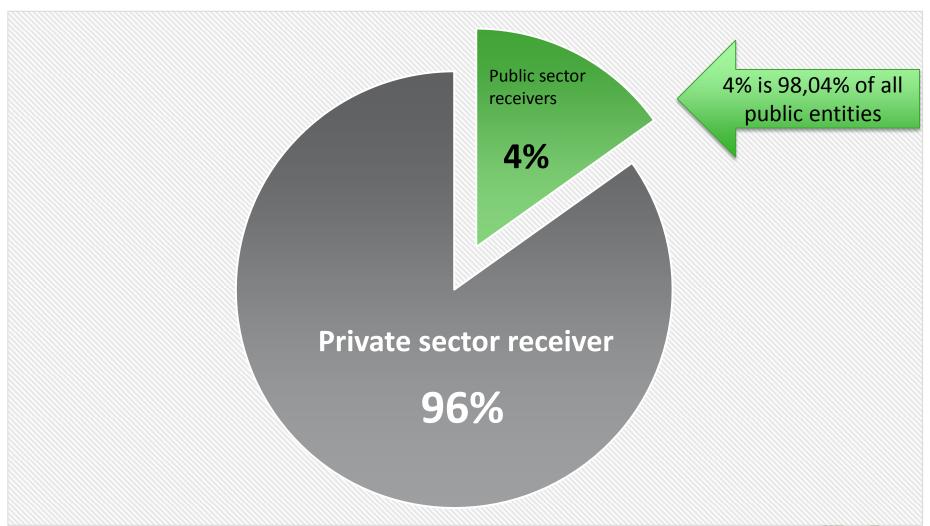


Aggregated transactions





Norwegian elnvoice receivers



Support market delivery of services

High number of access points fosters high level of competition



Open Source SW for access points

Validation service

Open Source SW

EHF

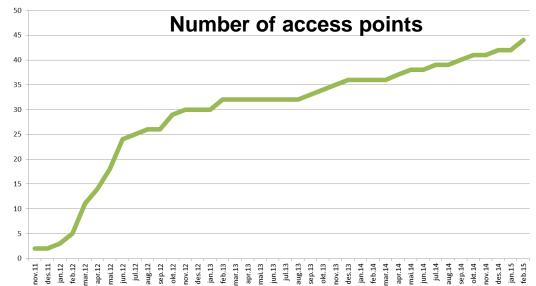
PEPPOL BIS



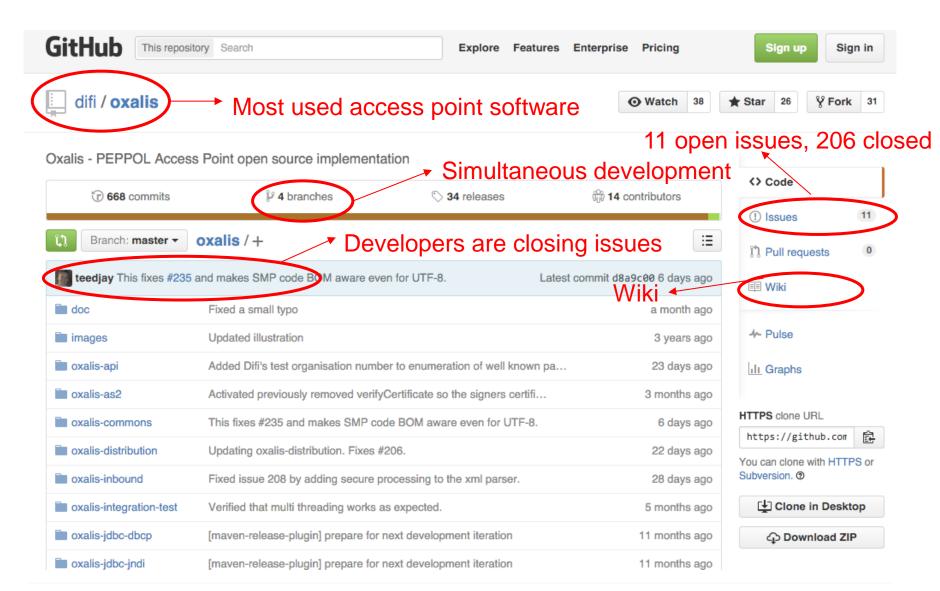


Test bed

Uses Open Source SW
Secure quality test
Validates EHF and PEPPOL BIS









ERP vendors and elnvoicing systems

- 43 ERP and invoice handling systems supporting EHF and PEPPOL BIS
 - ▶ Covers 95% of the Norwegian market
- ▶ 14 vendors with Nordic presence
- 4 vendors with European/international presence











Learning points

- Mandating elnvoicing through legislative means is a powerful tool to ensure widespread usage ...if combined with
- Standardisation of
 - Business processes
 - Information content (semantics)
 - Business document formats
 - Document delivery services
- → ELMA, AP ← PEPPOL eDelivery

EHF ← PEPPOL BIS ← CEN BII

- ...based on international standardisation efforts and European cooperation, and
- Availability of open source software components, support and governance

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European Norm on elnvocing and list of mandatory syntaxes. CEN Project

Committee 440

EHF ← PEPPOL BIS ← EN

Thank for your attention



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