Pan-European Public Procurement Online (PEPPOL)

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The eProcurement landscape

- **Fragmented eProcurement market driven by various groups** developing industry or country specific solutions

- **Low levels of government involvement**, usage, or legislative incentives

- **Lack of coordinated vision** between all participants - private and public

- **Belief that wide-scale standardisation ‘will never happen’** - reminiscent of the pre-Internet period

**KEY CHALLENGES**

- **Closed networks, locked-in solutions and lack of interoperability**, resulting in “islands of eProcurement”

- **Multitude of standards and formats**, resulting in need for conversion and increased cost and complexity

- **Lack of focus on the big picture: the complete purchase-to-pay process** resulting in single process oriented solutions
EC Roadmap and Actions

EC Roadmap for electronic invoicing in public procurement: Main problem to be addressed: **Multiple Standards imposed by Member States.**

- Policy approach considered as the most effective: **Legislative Act:** *possibility of making e-invoicing mandatory in public procurement, mandating the use of specific standards to ensure interoperability.*

Single Market Act II - Key Action 10: “Make electronic invoicing the standard invoicing mode for public procurement.”

- The introduction of legislative measures making e-invoicing a standard practice in public procurement will *make the public sector a 'lead market' for e-invoicing* and spearhead its wider use in the economy.

A Strategy for e-Procurement:

- “Support the deployment of e-procurement infrastructure, ensuring support for the sustainability of the PEPPOL components from mid-2012”.

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The PEPPOL Vision

The PEPPOL vision is:

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

The PEPPOL project (2008-2012) was launched to address the key eProcurement challenges in Europe. It has been jointly funded by the EC and a consortium of 18 government agencies from 11 member states.
PEPPOL Components: focus on the critical phases

- PEPPOL Network (Transport Infrastructure and Agreements for network governance); eSignature validation, eAttestations (Virtual Company Dossier)

- PEPPOL Business Interoperability Specifications (PEPPOL BIS) to implement standards-based eProcurement solutions for eCatalogues, eOrdering, eInvoicing
The PEPPOL Interoperability framework

- Single Market II, Digital Agenda, BCSS
- EC Strategy for e-Procurement, Roadmap for e-Invoicing in public procurement
- EU Directives
- Member state legal requirements
- PEPPOL Transport Infrastructure Agreements
- CEN WS Business Interoperability Interfaces On Public Procurement in Europe
- 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 Transport infrastructure
The PEPPOL Transport Infrastructure

PEPPOL 4-corner model

Interoperability layer:
- Profiles of transport standards
- Open standards
- Secure & reliable transport
The PEPPOL governance structure

OpenPEPPOL is the Contracting Authority

Regional or sectoral domain

Provides European wide governance for:
- the PEPPOL Technical Standards,
- the PEPPOL Service Specifications,
- the PEPPOL SML,
- the PEPPOL Agreements.

PEPPOL Authority

Regional or sectoral domain

Provides regional governance for:
- the implementation and use of the transport infrastructure
- specific requirements applicable within a geographical or economic activity domain
- Support to implementers within domain

Economic Operator
Post-Award Procurement Process through PEPPOL

1. Application Interface
2. Transformation
3. Validation
4. Control collaboration
5. START Interface
6. Access point
7. START Interface
8. Validation
9. Control collaboration
10. Transformation
11. Application Interface
12. Application

Economic Operator

Contracting Authority
Pre-award procurement process through PEPPOL: buyer to supplier

Contracting Authority

- Specifies goods and services required
- Lists qualification criteria and requested documents
- Publishes tender notice in OJEU (+ National level)
- Publishes/sends tender documentation

Catalogue tool

VCD tool

- Evidences
- Attestations
- Qualifications

Economic Operator

- Retrieves tender notice from OJEU (or Nat’l)
- Retrieves/receives tender documentation

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Pre-award procurement process with PEPPOL tools: supplier to buyer

Contracting Authority
- Evaluates tender & selects supplier
  - Qualification
  - Goods and services
  - Other documentation

Economic Operator
- Prepares evidences for qualification
- Specifies goods and services
- Signs all and submits tender

Catalogue tool
- a s ss a s
  1 3 d 3 4
  2 2 as D E

VCD tool
- a s ss a s
  1 3 d 3 4
  2 2 as D E

eSignature validation
PEPPOL Benefits

- **Connect once and communicate with everyone** already connected to the PEPPOL network, using a single Access Point (APs) and entering into only one agreement - with no roaming fees between APs

- **PEPPOL reduces the cost and complexity of implementing eProcurement solutions based on one set of standard specifications** (*PEPPOL BIS*) that can be used across Europe, instead of adapting to a multitude of formats

- **PEPPOL facilitates supplier access to a wider eProcurement market across borders**, by removing cross-border barriers, providing opportunities for greater competition and lowering buyers’ sourcing costs

- Widespread PEPPOL adoption creates significant demand for more advanced IT solutions and services. **IT service and solution providers have the opportunity to access new markets by offering PEPPOL enabled solutions** across Europe
Building the PEPPOL community

Network Effect: Evolution of active Access Points and BIS enabled platforms for eCatalogues, eOrders and eInvoices deployed by various Providers in Europe (status on 31.08.2012)

Access Point Enablement
Progress between Oct.11 - Aug.12

BIS enabled platforms per document type

Countries with PEPPOL activity:
Norway, Denmark, Sweden, Finland, Austria, Italy, France, Greece, UK, Germany, Portugal, Belgium, Netherlands, Spain, Ireland
More market implementers
  - Growth accelerating
  - eInvoicing dominates
    - One year ahead of other BIS
  - eOrders, eCatalogues emerging

Steady increase
  - eSignatures more market-ready, shows highest transaction volumes
  - eCatalogues scaling up usage
  - VCD attracts provider interest
The PEPPOL sustainability roadmap

Connecting Europe Facility
“Services of Public Interest”

Further development, operations, governance and implementation of
• eDelivery
• Other services to be decided

OpenPEPPOL

User driven governance through
• OpenPEPPOL General Assembly
• OpenPEPPOL Managing Committee
• Post Award Coordinating Community
  PEPPOL BIS
• PEPPOL Transport Infrastructure Coordinating Community
  PEPPOL Authorities
  - SMP Providers
  - AP Providers
• Pre Award Coordinating Community
  PEPPOL Authorities
  - NVS Providers
• eSignature Coordinating Community
  PEPPOL Authorities
  - VS Providers

Standards

ISA LSP LTS
DG DIGIT

Operations of
• SML (PKI)
• Maintenance of PEPPOL software components

“Basic Cross Sector Services”

Further development and dissemination of
• eDelivery
• VCD/OCD
• eCatalogues
• eSignature/eID
• eInvoicing
• Other building blocks to be decided

User path

EC supported path

PEPPOL Pilot A

CEN, OASIS

Standardisation work through
• CEN
  - WS BiL: Business processes and content
  - Other WS or TC activities relevant for PEPPOL
• OASIS
  - TC BDX: Transport Infrastructure/eDelivery
  - Other WS or TC activities relevant for PEPPOL

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Current status

The Pan-European Public Procurement Online (PEPPOL) project reached a **successful completion** on August 31\(^{st}\) 2012, with PEPPOL specifications being implemented across Europe.

**OpenPEPPOL** Association has been set up to take responsibility for the maintenance and sustainability of the PEPPOL specifications, building blocks and services, and to promote implementation across Europe.

OpenPEPPOL established as a non-profit international association under Belgian law, with operations started on September 1\(^{st}\) 2012. **Membership is now open to a wide range of public and private organisations.**

OpenPEPPOL provides the authoritative **governance coordination for networks of interoperable, PEPPOL-compliant infrastructure**, ensuring the reliability and continuity of the agreement framework.

**Further e-Procurement piloting** through the **e-SENS** Large Scale project, where PEPPOL artefacts will converge into emerging pan-European **Basic Cross-Sector Services**.
OpenPEPPOL organisational model

Secretary General elected by the Managing Committee and chair the Managing Committee and General Assembly

Coordinating Community elected leaders is part of the Managing Committee

OpenPEPPOL Members are also Members of at least one Coordinating Community

The OpenPEPPOL Operating Office assists the Secretary General in executive tasks

OpenPEPPOL Managing Committee

Pre Award Coordinating Community
E-signature Coordinating Community
Post Award Coordinating Community
Transport Infrastructure Coordinating Community

OpenPEPPOL General Assembly

All OpenPEPPOL Members form the General Assembly...
OpenPEPPOL AISBL goals

- **Encourage European governments** and their suppliers to continue implementing eProcurement using the PEPPOL specifications and promoting best practices.

- Promote and support the development of **innovative PEPPOL-based ICT products and services** supporting public procurement processes, promoting their use also in the B2B context to harmonise processes across the private and public sectors, simplifying eProcurement adoption for SMEs.

- Ensure that the **PEPPOL network continues to grow in an open, accessible and compliant manner**, supporting interoperability for European public services and helping Europe move towards a Digital Single Market.

*By becoming a member of OpenPEPPOL, private and public organisations will have the unique opportunity to join forces and drive standardisation, process automation and connectivity across Europe.*
OpenPEPPOL membership

Membership is open to:

- The PEPPOL Adopter and Implementer Community
  - Contracting authorities (public sector buyers),
  - economic operators (suppliers)
  - other end-users of products or services based on PEPPOL specifications, building blocks and services

- Organizations interested to support the adoption of PEPPOL in their domains (countries or sectors) as Authorities within the PEPPOL network

- Service Providers signing agreements to provide Service Metadata Publisher (SMP) services, Access Point (AP) services, eSignature validation services, Pre-award services

- Other organisations which are relevant to the purposes of OpenPEPPOL (e.g. associations, industries, academic and research institutions, policy groups)
Summary

PEPPOL offers solutions for both pre-award and post-award procurement processes using consensus-driven specifications and standards.

PEPPOL offers Pan-European eProcurement interoperability through:
- PEPPOL *Transport Infrastructure* (European wide addressing, reliable messaging)
- PEPPOL *Business Interoperability Specifications* (PEPPOL BIS)
- PEPPOL *Transport Infrastructure Agreements* (many-to-many regime)

The PEPPOL project reached a *successful completion* 31st of August, with *OpenPEPPOL* operational from 1st of September 2012.

PEPPOL adopters will follow *convergence into pan-European Basic Cross-Sector Services* within the e-SENS project from 2013.

*Membership in OpenPEPPOL is now open to a wide range of public and private organisations*
Join the OpenPEPPOL community!

For more information:

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