



DBE Core presents: Peppol

“Trusted data exchange in global markets”

THTH ry meeting 15.11.2023

Agenda

OpenPeppol basics

Invitation to trial use of Peppol

- Tomi Dahlberg

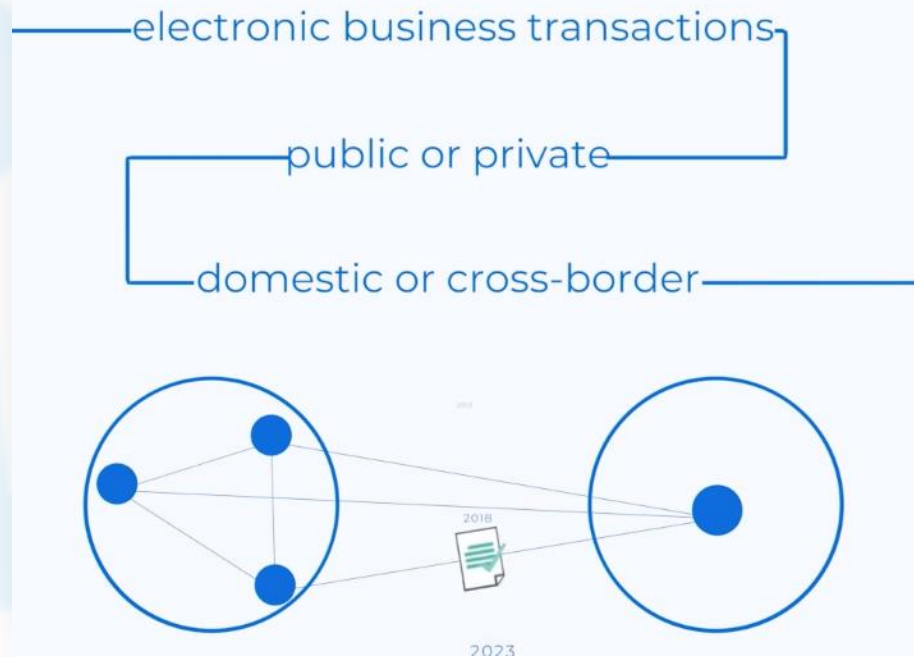
Peppol likely to become the first EU-wide and global business data sharing network

Peppol integrates business processes by standardising the way information is structured and exchanged

Whether you are sending invoices or handling other business transactions, Peppol delivers a shared digital language for organisations all over the world.

We are a non-profit organisation.

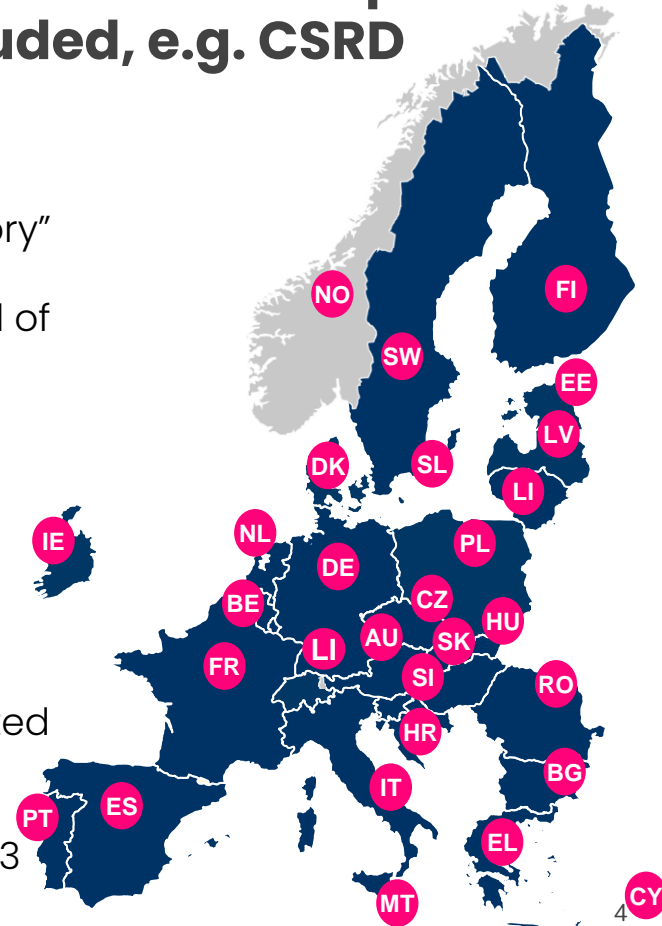
Our mission is to connect you to the world



Digital Europe Developments define the landscape of data sharing, ESG reporting included, e.g. CSRD

Key important mandatory regulations within the EU

- Orders with Peppol/EU messages become “mandatory” for B2G2G in Finland 1.4.2024
- NIS2 “Directive on measures for a high common level of cybersecurity across the Union” becomes effective 18.10.2024 - In Finland the name of the national law is “Laki kyberturvallisuuden riskienhallinnasta”
- Corporate Sustainability Reporting Directive(CSRD) becomes operatively effective 1.1.2025
- Electronic freight transport information (eFTI) Act becomes operatively effective in early 2026
- Three of EU’s five Data Acts (DMA, DSA, DGA, AIA, DA) have been accepted and two are likely to be accepted prior EU parliament election in 2024
- Text of the EU CountEmissions Act likely given in December 2023 in Madrid Summit with ISO 14083:2023 to guide transport and logistics emissions



What is Peppol?

Peppol is all about fast, efficient, borderless trade.

Our network and document specifications integrate global business processes by standardising the way information is structured and exchanged.

We enable public and private organisations to send and receive standard format business documents in an open and secure network. And we deliver the governance to make it work, with a binding agreement structure that ensures compliance.

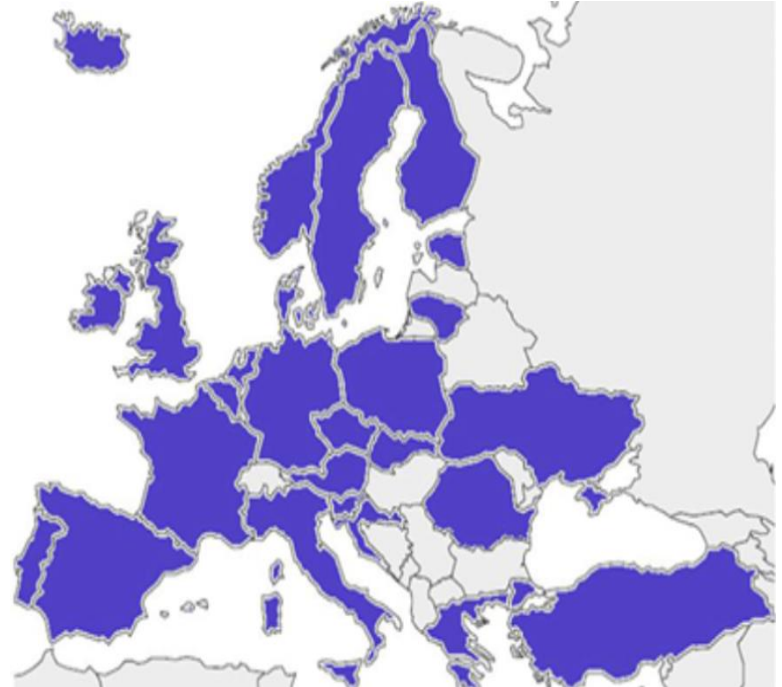
Peppol is not a portal, or a provider of exchange services. Peppol is an enabler. Any organisation can send and receive business documents across the Peppol Network via their chosen Peppol-accredited Service Provider.

No more closed networks. Connect using Peppol to do business with any Peppol-enabled organisation, anywhere in the world

Source: [Peppol.org](https://www.peppol.org)

OpenPeppol at the moment

- **In how many countries have Peppol messages been used?**
 - 82 countries, 800 000 users, 7 000 in Finland
- **OpenPeppol AISBL members**
 - 43 countries (32 in Europe and Australia, Canada, China, India, Japan, Malaysia, Mexico, New Zealand, Nigeria, Singapore, USA) with the total of 530 (15.9.23)
- **Peppol Service Providers**
 - 38 countries with over 350 Peppol service providers, in Finland 20+, half of which are established outside of Finland
- **Peppol Authorities**
 - 20 countries with OpenPeppol AISBL as the Peppol Authority to other countries
 - Finnish State Treasury became the 18th Peppol Authority in 2022





Peppol messages support data interoperability and data re-use – Procurement and logistics messages

Catalog

Punch Out

Order Contract

Order

Order Response (confirmation, change)

Order change

Order cancellation

Despatch advice

Message Response

Advanced despatch advice

Weight statement

Transport execution request

Transport execution plan

Waybill (multimodal)

Transport status request and response

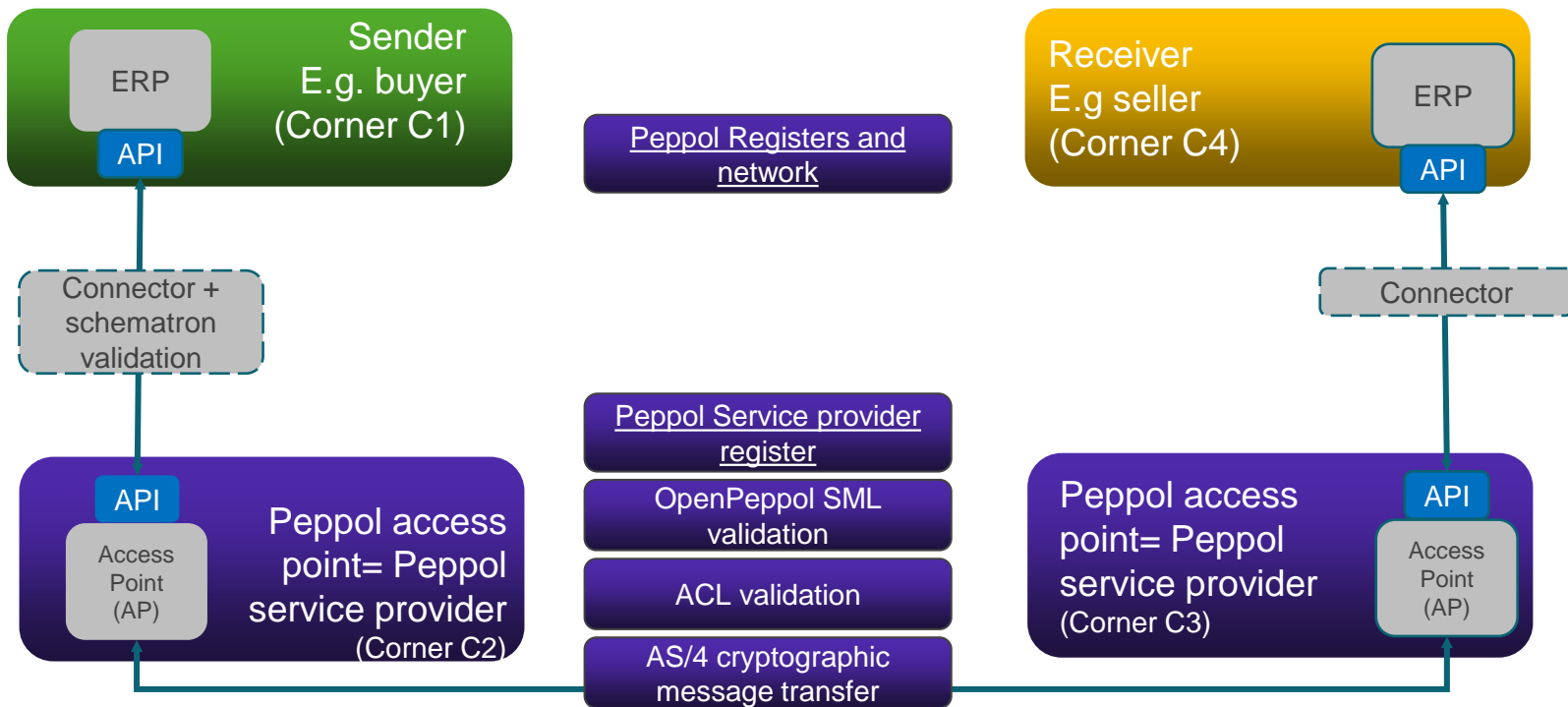
Transport receipt advice

Invoice

International invoice

Credit note

Peppol 4-corner model in message transfers



Key improvements of Peppol over edifact, portals and other earlier electronic solutions

Standardized messages – one format for each message

- There is only one standardized message for order, waybill, invoice etc. Edifact messages result in 60 message library versions between the years 1998-2008
- Messages are maintained and updated on the basis of business needs as reflected in UN/CEFACT CCL and the UBL (ISO/IEC 19845) data model. Peppol messages also follow CEN Euro Norm standards such as those defined in CEN TC 434 (ordering, invoices) and TC 440 (logistics). Changes to Peppol messages are executed in domain specific change request committees on the basis of written change requests and published twice a year – this kind of governance structure does not exist for edifact messages
- The syntax, logical and business rules of a message sent is validated with schematron prior to message transfer in the OpenPeppol network. Transfer message data is shared between the sender and the receiver (=their service provider). These lack from edifact or are agreed peer-to-peer

Data Re-use between messages

- Since Peppol applies the UBL data model it also follows the principle of data re-use and data re-entry avoiding between messages, e.g. order, waybill and invoice. This also facilitates the automatic matching of data between messages – missing from edifact

Key improvements of Peppol over edifact, portals and other earlier electronic solutions (continued)

Discovery based approach - open, free-of-charge access to message, technical etc data

- Peppol message specifications from the UBL data model include process descriptions (=BIS, Business Interoperability Specification), message syntax descriptions (syntax and data element descriptions, validation rules, code lists typically taken from various standards) and case examples. All these documents are openly available free-of charge from www.peppol.org . In edifact one has to pay for this data and is not allowed to disclose it
- All other Peppol documents such as guides, contracts, OpenPeppol member lists etc. are also openly available from www.peppol.org. Not supported in edifact
- Data about Peppol users and their capabilities to receive messages is available for discovery free of charge. Not supported in edifact
- Message transfer in OpenPeppol network between Peppol service providers is free-of-charge – there are no similar service providers in edifact, messages are peer-to-peer and tailored between the parties

Join once to connect all

- **By registering to Peppol once via a Peppol service provider, you may start to share Peppol messages with all parties in the network**

Key improvements of Peppol over edifact, portals and other earlier electronic solutions (continued)

Governance – missing entirely from edifact

- Legal governance consists of OpenPeppol AISBL chart of accounts, standard contracts for Peppol authorities and Peppol Service providers, and the organization of Peppol (Secretary general, management committee, community committees, authorized projects, Operative office with help desk)
- Technical governance consists of eDelivery, pre-Award, post-Award and Continuous Transaction Control committees and their change management boards
- OpenPeppol member governance consists of Peppol Authority, Service Provider and User communities

European Union support – missing entirely from edifact

- Peppol applies Digital Europe technologies, most notably eDelivery building blocks and AS/4 data transfer and encryption protocol
- All Peppol messages have the Euro Norm (EN) status

Are there real alternatives to Peppol?

- Data exchange on paper is what we want to make redundant
- Non-machine readable and non-structured pdf and/or office documents do not support data interoperability and re-use
- UN/CEFACT based edifact - see slides above
- Proprietary, integration platform and ERP solutions - combine with Peppol to have the cake (your own portal, eMarketplace,...) and eat it too (use Peppol messages in data exchange between enterprises). Peppol is not an information system but means to exchange data as a service that is connected to your ERP and/or other information systems.

Conclusion - Time to use OpenPeppol network in the sharing of business data

- Peppol is likely to become the first EU-wide and global business data sharing network. There are no similar competing open data and process interoperability networks
- The time of paper/pdf/excel based non-structured and non-machine readable data sharing, peer-to-peer and proprietary data exchange solutions, as well as national data models/standards is over. Peppol is a robust proven basis for cost-reducing, high data quality ensuring, and data re-use enabling data sharing solution between business partners



Invitation to NIC Forum, THTH and others to explore the benefits of Peppol

- This invitation is open to you and your IT, ERP and data exchange service providers - OpenPeppol is open to all
- We have experience of joint Nordic, European and global Peppol work, such as
 - Execution of Finnish and Nordic Smart Government Peppol pilots.
 - Member in the working groups of OpenPeppol advanced ordering project in 2021-2022 and logistics project in 2022-2023. Nordic members from Denmark, Finland, Norway and Sweden were in key roles
 - Member of OpenPeppol Service Provider and eDelivery communities
 - Supplier of Peppol ACL register to the Finnish Peppol Authority (Valtiokonttori, the Finnish State Treasury)



Secure data storage and relaying service

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