

2019 PIDX US SPRING CONFERENCE Juan Fernando Montoya

Schlumberger

AGENDA

- PEPPOL VISION
- PEPPOL FUNDAMENTALS
- PIDX & PEPPOL USE CASE
- LESSONS LEARNED
- Q&A



PEPPOL VISION

PEPPOL - Pan-European Public Procurement Online

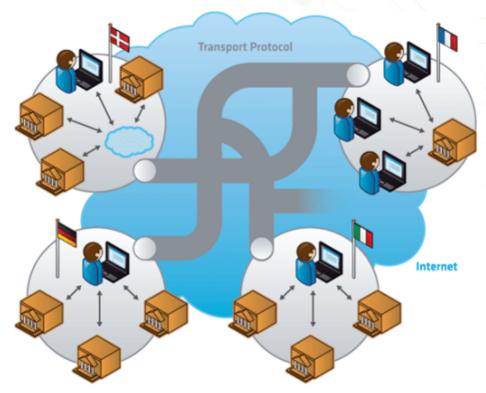
To enable businesses to communicate electronically with any European government institution in the procurement process.

The use of PEPPOL is governed by a multilateral agreement structure which is owned and maintained by OpenPEPPOL.

OpenPEPPOL is a non-profit international association under Belgian law (Association Internationale Sans But Lucratif – **AISBL**)



'Connect once, connect to all'



Source: peppol.e

PEPPOL FUNDAMENTALS

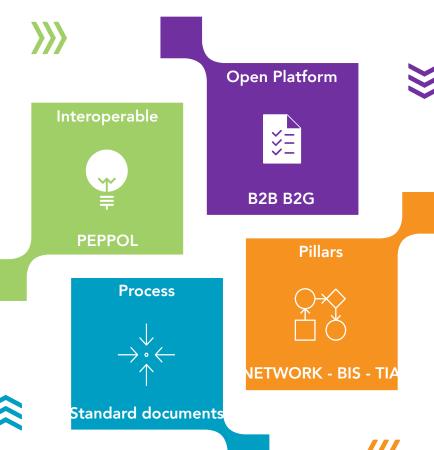
INTEROPERABILITY

PEPPOL standardizes three basic elements required for interoperability:

Routing, Delivery and Format.

POST-AWARD PROCESS

- -eCatalogues to exchange information about goods and services.
- -Invoice, Credit Memo and Orders providing the buyer and suppliers with defined procedures



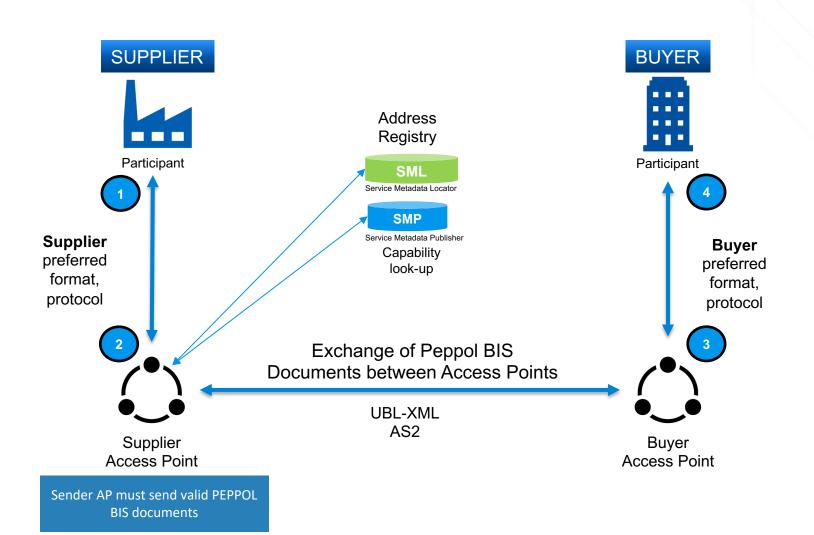
INFRASTRUCTURE

PEPPOL infrastructure is mainly driven by the European public sector and is to be used for Business To Government and Business To Business participants.

PEPPOL COMPONENTS – THREE PILLARS

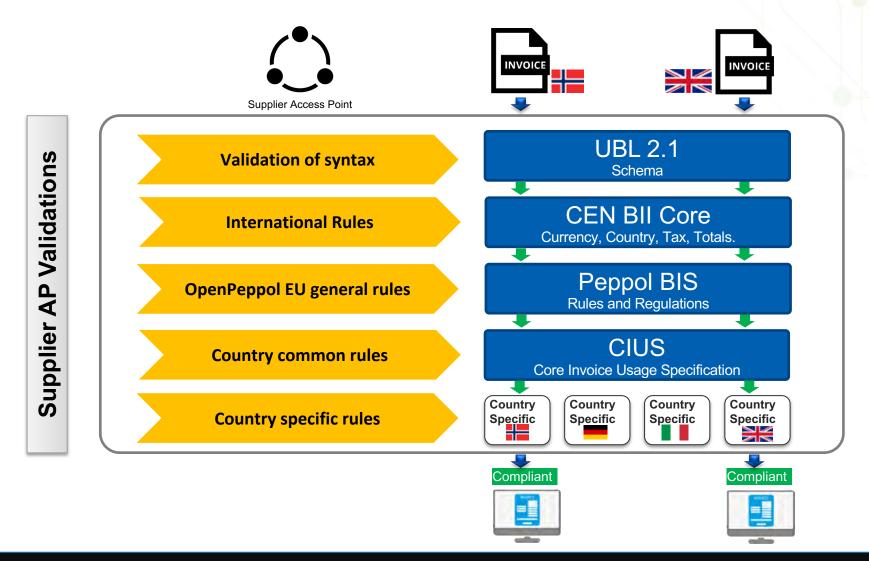
- -The Network (PEPPOL eDelivery Network)
- -PEPPOL **BIS**, **B**usiness Interoperability **S**pecifications
- -Transport Infrastructure Agreements, TIA. The legal framework that defines the network governance

PEPPOL NETWORK





PEPPOL ACCESS POINT VALIDATIONS



PEPPOL REACH AND COUNTRY PROFILES

There are 12 PEPPOL Authorities:

- Agency for Digital Italy (AgID), Italy
- Beleid en Ondersteuning Stratégie et Appui (BOSA), Belgium
- Danish Business Authority, Denmark
- Agency for Public Management and eGovernment (Difi), Norway
- Department of Health and Social Care (NHS), England
- Agency for Digital Government (DIGG), Sweden
- Ministry of Entrepreneurship and Technology, Poland
- SimplerInvoicing, Netherlands
- Office of Government Procurement, Ireland
- Koordinierungsstelle für IT-Standards (KoSIT), Germany
- Info-communications Media Development Authority (IMDA),
 Singapore
- Ministry of Business Innovation and Employment (New Zealand)

Also, OpenPEPPOL AISBL as an interim choice where no national Authority exists.

Possible PEPPOL Authorities in 2019?

EU/EEA countries with PEPPOL Access Points without a PEPPOL Authority at national level

- Austria
- Croatia
- Cyprus
- Czech Republic
- Estonia
- Finland
- France
- Greece
- Iceland
- Lithuania
- Malta
- Portugal
- Slovenia
- Spain
- Switzerland

Outside Europe

- •USA
- Canada

Source: peppol.e

PEPPOL REACH AND COUNTRY PROFILES





SINGAPORE: Launched a nationwide e-invoicing framework in January 2019 based on the PEPPOL Interoperability Framework

POLAND & SWEDEN: Using PEPPOL Access Points, all invoices sent to public administrations will be required to be sent electronically

- Directive 2014/55/EU: States that all public, European administrations must have the capabilities in place to accept electronic invoices from their suppliers
- Australia and New Zealand: Transition to PEPPOL for elnvoicing B2B and B2G by end of 2019

PIDX & PEPPOL USE CASE

Getting Started with PEPPOL

- ✓ Access Point supplier selection
- ✓ Define Format and Protocol ↔
- ✓ Determine PEPPOL mapping requirements



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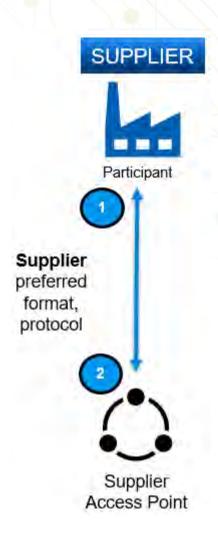
PIDX & PEPPOL USE CASE

Requirement:

Develop mappings for PIDX & PEPPOL interoperability

Choice on Format and Protocol between Supplier and Access Point

PIDX - RNIF



PIDX & PEPPOL EHF 2.0 DOCUMENTS

PEPPOL 2.0 Document types

Post-Award

PEPPOL BIS 1A Catalogue

PEPPOL BIS 3A Order

PEPPOL BIS 4A Invoice

PEPPOL BIS 5A Billing

PEPPOL BIS 28A Ordering

PEPPOL BIS 30A Dispatch Advice

PEPPOL BIS 42A Order Agreement

PEPPOL BIS 36A Message Level

PIDX INVOICE

PEPPOL EHF 5a Billing

- Basic invoice
- Invoice Response

PIDX PO

PEPPOL EHF 28a Ordering

- Detailed POs
- Limited POs

PIDX OC

PEPPOL EHF 42a Order Agreement

Used to receive other documents

EHF: Norwegian: Elektronisk Handelsformat (Electronic Commerce Format)



PIDX & PEPPOL EHF 2.0 MAPPING BASICS

PIDX INVOICE TO PEPPOL EHF 5a Billing

- Become familiar with Peppol documents and requirements
- Evaluate what will impact your current billing process and solutions
- Define a long term strategy for future projects 1001">380

PIDX - PEPPOL Payload Attachment — B64

InvoiceLineItem → InvoiceLine

listID="ISO4217">NOK<

This will help scaling developments for multiple countries, have more flexibility for deployment (multi-customer) when needed, and ensure clear patterns on how workflows in same documents should interact around the data they need to exchange.

TaxIdentifierNumber → NO:ORGNR \ NO:VAT → 123456789<u>MVA</u>

Bank Account → IBAN, BBAN Validated → NOK & USD, SWIFT-BIC

Unit of Measure →

→ UNECERec20

→ TAX Category UNCL5305 - '0' → 'Z'

PIDX & PEPPOL EHF 2.0 MAPPING KEY INFORMATION

PIDX INVOICE To PEPPOL EHF 5a Billing

EQUIVALENT SECTIONS

Seller → AccountingSupplierParty BillTo → AccountingCustomerParty

RemitTo → Payment Means InvoiceLineItem → InvoiceLine

FACTS

DUNS → NO:ORGNR (TAX ID) (Routing)

InvoiceTypeCode listID="UNCL1001">380< DocumentCurrencyCode listID="ISO4217">NOK<

RESPONSES & ATTACHMENT

Invoice Response from Access Point validations

PIDX - PEPPOL Payload Attachment — B64

MASTER DATA

 $\begin{array}{lll} \mbox{TaxIdentifierNumber} \rightarrow \mbox{NO:ORGNR} \setminus \mbox{NO:VAT} \rightarrow \mbox{123456789} \underline{\mbox{MVA}} & \mbox{Unit of Measure} & \rightarrow \mbox{UNECERec20} \\ \mbox{Bank Account} & \rightarrow \mbox{IBAN, BBAN Validated} \rightarrow \mbox{NOK \& USD, SWIFT-BIC} & \mbox{TAX Rate} & \rightarrow \mbox{TAX Category UNCL5305} - \mbox{'0'} \rightarrow \mbox{'Z'} \\ \end{array}$

HEADER: peppol5a:ver2.0:extended:urn:www.difi.no:ehf:faktura:ver2.0



PIDX & PEPPOL EHF 2.0 MAPPING KEY INFORMATION

PEPPOL EHF 28a Ordering 1.0 To PIDX ORDER

EQUIVALENT SECTIONS

BuyerCustomerParty → SoldTo SellerSupplierParty → Seller

BillTo → NA, Delivery → ShipToParty,
PaymentTerms, OrderLine →
OrderCreateDetails

FACTS

NO:ORGNR → DUNS Alignment with UNECERec20

Document handling

ATTACHMENT

Peppol Payload UBL attachment

PIDX Payload Attachment

REGULATIONS

There are no formal requirements to order content according to Norwegian regulations UBL 2.1 — CEN BII2

PEPPOL ORDER - RESPONSE

Ordering supports also the Order responses

Acceptance/changes at Header or Line level

HEADER: peppol28a:ver1.0:extended:urn:www.difi.no:ehf:ordre:ver1.0



PIDX & PEPPOL EHF 2.0 MAPPING KEY INFORMATION

PEPPOL EHF 42a Order Agreement To PIDX ORDER CHANGE

EQUIVALENT SECTIONS

SellerSupplierParty → Seller BuyerCustomerParty → SoldTo

LegalMonetaryTotal + OrderLine → OrderChangeDetails

FACTS

NO:ORGNR → DUNS

Specific for document handling

ATTACHMENT

Peppol Payload UBL attachment

PIDX Payload Attachment

PEPPOL ORDER AGREEMENT

Ordering and Order Agreement documents share similar structure and PEPPOL specifications.

PIDX

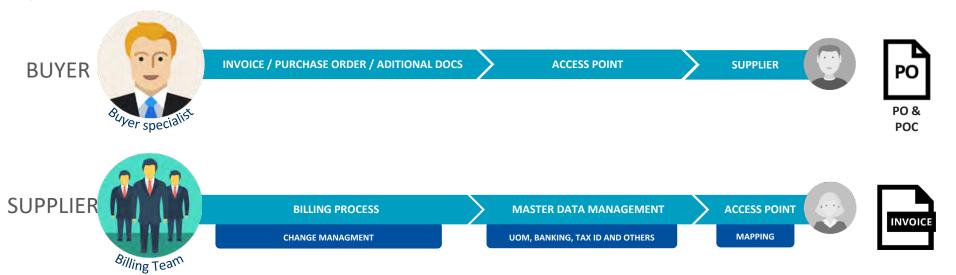
pidx:OrderChange pidx:transactionPurposeIndicator="ProForma"

HEADER: peppol42a:ver1.0:extended:urn:fdc:difi.no:2017:ehf:spec:1.0



PIDX & PEPPOL LESSONS LEARNED

- Access Point Supplier should have Peppol experience in multiple countries
- ✓ There will be challenges with new Peppol releases continuous development
- Access Point supplier must have PIDX knowledge
- Access Point long term relationship is very important
- ✓ PIDX can be used to deploy PEPPOL, Fiscal Electronic Invoicing and others



Thank you!







