Using the Peppol Network for Domestic E-Invoicing in Denmark

Overview

The Peppol (Pan-European Public Procurement On-Line) network enables standardized electronic document exchange between businesses. For Danish domestic e-invoicing, both sender and receiver communicate through access points like HubBroker, which acts as the service provider connecting participants to the Peppol network.

Key Components

Participants

- Sender: The business issuing the e-invoice
- Receiver: The business receiving the e-invoice
- Service Provider (HubBroker): The certified Peppol access point facilitating the exchange

Identification

Each participant needs a Peppol ID (also called Participant ID), which in Denmark typically uses:

- GLN (Global Location Number) - format: 0088:5790000xxxxx
- CVR (Danish company registration number) - format: 0184:xxxxxxxx

Outbound E-Invoicing Process (Sending)

1. **Registration with HubBroker**

- The sender registers as a Peppol participant through HubBroker
- Receives their Peppol ID configuration
- HubBroker registers the sender in the Peppol SMP (Service Metadata Publisher) directory

2. **Invoice Creation**

- Sender creates invoice in their ERP/accounting system
- Invoice is converted to Peppol BIS Billing 3.0 format (UBL or CII XML standard)

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3. **Transmission via HubBroker**

- Sender submits the e-invoice to HubBroker (via API, file upload, or system integration)
- HubBroker validates the invoice format and content
- HubBroker looks up the receiver's access point in the Peppol SML/SMP directory
- HubBroker sends the invoice through the Peppol network to the receiver's access point

4. **Delivery Confirmation**

- HubBroker provides delivery status back to the sender
- Sender receives confirmation that the invoice reached the receiver's access point

Inbound E-Invoicing Process (Receiving)

1. **Registration with HubBroker**

- The receiver registers their Peppol ID with HubBroker
- HubBroker publishes the receiver's endpoint information in the Peppol SMP directory
- This makes the receiver discoverable to all Peppol senders

2. **Invoice Reception**

- When a sender transmits an invoice to the receiver's Peppol ID, the sender's access point queries the Peppol directory
- The directory returns HubBroker's endpoint information
- The invoice is routed through the Peppol network to HubBroker

3. **Processing via HubBroker**

- HubBroker receives and validates the incoming e-invoice
- HubBroker can transform the invoice format if needed (e.g., from XML to the receiver's preferred format)
- HubBroker notifies the receiver of the new invoice

4. **Delivery to Receiver**

- Invoice is delivered to the receiver through their preferred method:
- Direct integration with ERP/accounting system (API)
- Web portal access through HubBroker's platform
- Email notification with download link
- File transfer (SFTP, AS2, etc.)

Danish-Specific Requirements

For domestic Danish e-invoicing via Peppol, ensure:

- **NemHandel compliance**: Peppol BIS Billing 3.0 is aligned with Danish NemHandel standards
- **CVR number**: Danish companies must use their CVR number as the Peppol identifier (format 0184:xxxxxxxx)
- **OIOUBL compatibility**: While Peppol uses international standards, HubBroker can handle conversion from legacy OIOUBL format if needed
- **VAT requirements**: Invoices must include Danish VAT information correctly formatted

Benefits of Using HubBroker as Service Provider

- **Single connection**: Connect once to reach all Peppol participants globally
- **Format handling**: HubBroker manages format conversions and validations
- **Compliance**: Ensures invoices meet Peppol and Danish requirements
- **Directory management**: HubBroker handles SMP registration and updates
- **Support**: Technical assistance for onboarding and troubleshooting
- **Monitoring**: Track invoice status and delivery confirmations

Implementation Steps

1. Choose your Peppol ID (GLN or CVR-based)
2. Sign agreement with HubBroker as your Peppol access point provider
3. Configure integration between your systems and HubBroker
4. Test transactions in HubBroker's test environment
5. Go live and start exchanging e-invoices domestically and internationally

The Peppol network enables seamless domestic Danish e-invoicing while also providing the capability to exchange invoices with international partners using the same infrastructure and processes.