

# PEPPOL Access Point (Post-Award)

*A service from Data Platforms in TietoEVERY*

## TECHNICAL DOCUMENTATION

PEPPOL Access Point is a service facilitating b2b exchange of electronic messages according to the EHF/PEPPOL BIS standard used by the Norwegian governmental sector (hereafter called “messages”).

This document specifies how an organization using the service can deliver messages to, and retrieve messages from, the service. The target group is technical personnel implementing and maintaining the user’s integration with the service.

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## 1 Definitions

Term	Used in this document, the term means
User	The organization that has entered an agreement with EVERY to use the eC Access Point service.
Sender	An organization sending outgoing messages through the eC Access Point service under the <i>user's</i> agreement.
Issuer	The organization that is the issuer of an outgoing message (as stated in the xml, for example the AccountingSupplierParty in an outgoing invoice). This can be the <i>sender</i> or another organization that the <i>sender</i> is sending on behalf of.
Receiver	An organization receiving incoming messages through the eC Access Point service under the <i>user's</i> agreement.
Recipient	The organization that a <i>sender</i> is sending a message to.
Originator	The organization that a <i>receiver</i> is receiving messages from.
Post-Award	Specifications used after awarding contract, e.g. catalogue, order and invoice. For more information follow this link: <a href="https://anskaffelser.dev/postaward/">https://anskaffelser.dev/postaward/</a>

## 2 Message types

The *Post-Award* version of our PEPPOL Access Point service handles the following message types:

<b>Message type</b>	<b>Xml format</b>
<b>EHF Advanced Ordering 3.0</b>	
EHF Advanced Order Initiation 3.0	ubl:Order
EHF Advanced Order Change 3.0	ubl:OrderChange
EHF Advanced Order Cancellation 3.0	ubl:OrderCancellation
EHF Advanced Order Response 3.0	ubl:OrderResponse
<b>EHF/PEPPOL BIS Billing 3.0/</b>	
UBL Invoice	UBL Invoice
UBL Credit Note	UBL Credit Note
<b>EHF/PEPPOL BIS Catalogue 3.0</b>	
EHF/PEPPOL BIS Catalogue 3.0	ubl:Catalogue
EHF/PEPPOL BIS Catalogue Response 3.0	ubl:ApplicationResponse
<b>EHF/PEPPOL BIS Despatch Advice 3.0</b>	ubl:DespatchAdvice
<b>EHF Forward Billing 3.0</b>	UBL Invoice
<b>EHF/PEPPOL BIS Order Agreement 3.0</b>	ubl:OrderResponse
<b>EHF/PEPPOL BIS Ordering 3.0</b>	
EHF/PEPPOL BIS Order 3.0	ubl:Order
EHF/PEPPOL BIS Order Response 3.0	ubl:OrderResponse
<b>EHF Payment Request 3.0</b>	ubl:Invoice
<b>EHF/PEPPOL BIS Punch Out 3.0</b>	ubl:Catalogue
<b>EHF Reminder 3.0</b>	ubl:Invoice

### 3 File transfer

Messages are delivered to, and fetched from, the service via EVERYs server ***ftp.ec.every.com***. The transfer is done using ftp or sftp over Internet. User name and password for the ftp account is sent by EVERY to the user's appointed contact person.

The ftp account has the following sub catalogues:

/in	The user places outgoing message files (messages from the user) in this catalogue.
/receipt	The service will place receipt files and error message files in this catalogue for the user to fetch.
/out	The service will place incoming message files (messages to the receiver(s)) in this catalogue for the user to fetch.

### 4 Senders and receivers

All senders and receivers must be configured in the service. Senders and receivers are identified by organization number. If the user's agreement with EVERY does not state otherwise, the sender, the receiver and the user is the same.

### 5 File naming

*Message files delivered from the user to the service (outgoing messages)* must be named as follows:

- File name length must not exceed 90 characters.
- The file name must consist of alpha numerical characters and the character "\_" (underscore) only.
- The file name must match the following template:

*<sender org no>\_<unique string>*, where

*<sender org no>* is the sender's organization number and

*<unique string>* is a value that is unique over time for the sender. Such a string could for instance be constructed based on a timestamp and / or a sequence number.

- File type must be .xml

Example: 840677123\_200705021325eU257.xml

*Receipt files from the service* are named as follows:

<name of message file>\_DELIVERED.xml

*Error message ("negative receipt") files from the service* will be named as follows:

<name of message file>\_REJECTED.xml

- *Name of message file* is the name of the corresponding message file.

Tip: Senders that represent several issuers, and need to identify on file name level which issuer a given receipt/error message is meant for, should incorporate the issuer's organization number in the <unique string>-part of the message file name.

*Message files from the service to the user (incoming messages)* are named as follows:

<originator org no>\_<receiver org no>\_<message no>\_<timestamp>\_<doc type>\_<status>.xml

- *Originator org no* is the organization number or id of the message originator
- *Receiver org no* is the organization number of the message receiver
- *Message no* is the number (ID) of the message
- *Timestamp* gives the date and time for the delivery of the file to the user.
- *Doc type* is one of the following

O: Order  
 OR: Order response  
 D: Dispatch advise  
 I : Invoice  
 C : Credit note  
 R : Reminder  
 K: Catalogue  
 KR: Catalogue response

- *Status* is one of the following

V: Valid message  
 N: Non valid message

Example: 987234176\_819075832\_00070962782000\_20120504090531930\_I\_V.xml

## 6 Distribution of messages in message files

Each message files must contain one and only one message.

## 7 Recipient identification in outgoing messages

In outgoing messages (messages *from* the user organization), the service expects to find the electronic address of the recipient in the following UBL element

<b>Message</b>	<b>UBL element</b>
Order	<i>AccountingSupplierParty/Party/EndpointID</i>
Order Response	<i>AccountingCustomerParty/Party/EndpointID</i>
Dispatch Advice	<i>AccountingCustomerParty/Party/EndpointID</i>
Invoice	<i>AccountingCustomerParty/Party/EndpointID</i>
Credit Note	<i>AccountingCustomerParty/Party/EndpointID</i>
Reminder	<i>AccountingCustomerParty/Party/EndpointID</i>
Catalogue	<i>AccountingCustomerParty/Party/EndpointID</i>
Catalogue Response	<i>AccountingSupplierParty/Party/EndpointID</i>

The electronic addresses of most Norwegian businesses able to receive EHF can be found on DIFI's webpage (<http://www.anskaffelser.no/e-handel/artikler/mottakere-i-elma>).

## 8 Receipts

Error messages and receipts are in the format UBL 2.0 ApplicationResponse.

Below is an example of a receipt.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ApplicationResponse
xmlns="urn:oasis:names:specification:ubl:schema:xsd:ApplicationResponse-2"
xmlns:cac="urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2"
xmlns:cbc="urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2">
  <cbc:UBLVersionID>2.0</cbc:UBLVersionID>
  <cbc:CustomizationID>urn:www.cenbii.eu:transaction:biicoretrdm010:ver1.0
</cbc:CustomizationID>
  <cbc:ProfileID>urn:www.cenbii.eu:profile:bii05:ver1.0</cbc:ProfileID>
  <cbc:ID>512473551</cbc:ID>
  <cbc:IssueDate>2012-01-12</cbc:IssueDate>
  <cbc:IssueTime>00:35:11.000</cbc:IssueTime>
  <cac:SenderParty>
    <cac:PartyIdentification>
      <cbc:ID>ACCESSPOINT</cbc:ID>
    </cac:PartyIdentification>
  </cac:SenderParty>
  <cac:ReceiverParty>
    <cac:PartyIdentification>
```

```

        <cbc:ID>819075832</cbc:ID>
      </cac:PartyIdentification>
    </cac:ReceiverParty>
    <cac:DocumentResponse>
      <cac:Response>
        <cbc:ReferenceID>819075832_12345020312999.xml</cbc:ReferenceID>
        <cbc:ResponseCode>ACCEPT</cbc:ResponseCode>
        <cbc:Description>Message is confirmed delivered to the recipient's
accesspoint</cbc:Description>
        <cbc:Description>Accesspoint confirmation uuid:799756e9-cd8a-48aa-
90ed-8ce1e8a6d70b</cbc:Description>
      </cac:Response>
    <cac:DocumentReference>
      <cbc:ID>1234</cbc:ID>
      <cbc:IssueDate>2012-01-12</cbc:IssueDate>
      <cbc:DocumentTypeCode>Invoice</cbc:DocumentTypeCode>
    </cac:DocumentReference>
    <cac:IssuerParty>
      <cac:PartyLegalEntity>
        <cbc:RegistrationName/>
        <cbc:CompanyID>819075832</cbc:CompanyID>
      </cac:PartyLegalEntity>
    </cac:IssuerParty>
    <cac:ReceiverParty>
      <cac:PartyLegalEntity>
        <cbc:RegistrationName/>
        <cbc:CompanyID>998765678</cbc:CompanyID>
      </cac:PartyLegalEntity>
    </cac:ReceiverParty>
  </cac:DocumentResponse>
</ApplicationResponse>

```

The second occurrence of the element DocumentResponse.Response.Description will contain the *uuid* of the transfer to the recipient's accesspoint. The uuid identifies the message transferal uniquely, and the recipient's accesspoint has confirmed that the message is received and that responsibility for the message is accepted by the recipient's accesspoint (and thereby by the recipient).

## 9 Rejection and error messages

The service will reject a message delivered from the user

- if the message is not valid according to EHF / xml schema for UBL
- if the recipient cannot receive the given message type through the accesspoint infrastructure. This could have different reasons:
  - The recipient is not registered in the PEPPOL address registers (ELMA/SMP/SML) as a recipient of the message type sent.
  - The recipient's accesspoint had some kind of trouble and was not able to receive the message.
  - The PEPPOL address registers had some kind of trouble and were not available for lookup.

When a message is rejected, the user receives an error message ("negative receipt") in the format UBL 2.0 ApplicationResponse, giving the reason for the rejection. Typical error messages are:

Error message	Reason for rejection / what should you do
Unable to find information for participant ....	<p>The recipient is not defined in the PEPPOL address registers (ELMA/SMP/SML) as a receiver of the message type / profile indicated in the xml element CustomizationId.</p> <p>Check the value of CustomizationId against the recipient's entry in the PEPPOL SMP (normally ELMA).</p>
Failed to send the file	<p>The recipient's accesspoint had some kind of trouble and was not able to receive the message. This error message is normally only sent after the service has unsuccessfully tried three times to deliver the message.</p> <p>Try resending the message after some time, or contact the recipient and ask why their accesspoint is not able to receive.</p>
Unable to locate an access point for the recipient. Problem with SMP lookup	<p>The PEPPOL address registers had some kind of trouble and were not available for lookup.</p> <p>Check if you have received any messages from EVRY about such problems, and try resending the message after some time.</p>
Schema validation error	<p>The EHF file was not valid according to the xsd for UBL.</p> <p>Check the message against the XML Schema for UBL and correct the errors. Ref ch 10.</p>
Content validation error.	<p>The EHF file was not valid according to the business rules of EHF / PEPPOL BIS</p> <p>Check the messages against the business rules of EHF and correct the errors. Ref ch 10.</p>
Unknown document type	<p>The value of the element CustomizationId is not a document type handled by the service.</p> <p>Check the value against Appendix 1, and correct the error.</p>

In case of rejection, the responsibility for the message goes back to the user.

Below is an example of an error message, responding to a message rejected as not valid according the UBL schema.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ApplicationResponse
xmlns:cbc="urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2"
xmlns:cac="urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2" xmlns="urn:oasis:names:specification:ubl:schema:xsd:ApplicationResponse-2">
  <cbc:UBLVersionID/>
  <cbc:CustomizationID/>
  <cbc:ProfileID/>
  <cbc:ID>0000000000000000000512473539000000</cbc:ID>
  <cbc:IssueDate>2012-05-04</cbc:IssueDate>
  <cbc:IssueTime>09:05:30.000</cbc:IssueTime>
  <cac:SenderParty>
    <cac:PartyIdentification>
      <cbc:ID>ACCESSPOINT</cbc:ID>
    </cac:PartyIdentification>
  </cac:SenderParty>
  <cac:ReceiverParty>
    <cac:PartyIdentification>
      <cbc:ID>819075832</cbc:ID>
    </cac:PartyIdentification>
  </cac:ReceiverParty>
  <cac:DocumentResponse>
    <cac:Response>
      <cbc:ReferenceID>819075832_9020025462__20120504-090117-543.xml</cbc:ReferenceID>
      <cbc:ResponseCode>REJECT</cbc:ResponseCode>
      <cbc:Description>[ErrorMessage]-Schema validation error</cbc:Description>
      <cbc:Description>[SchemaError]-error: cvc-elt.1: Cannot find the declaration of element 'Invoice'.</cbc:Description>
    </cac:Response>
    <cac:DocumentReference>
      <cbc:ID/>
      <cbc:DocumentTypeCode>UnknownDocument</cbc:DocumentTypeCode>
    </cac:DocumentReference>
  </cac:DocumentResponse>
</ApplicationResponse>
```



## 10 Test and test recipient

EVERY has a test recipient registered in the Norwegian SMP ELMA. The test recipient accepts all message types. The user can send messages to this test recipient (electronic address 0192:810305282).

Before starting to send messages to the test recipient, the user should have checked

- that the messages contains the correct message type in CustomizationID (see ch 2).
- that the messages are valid EHF/PEPPOL BIS. This can be done validating the messages on DIFIs internet site, <https://anskaffelser.dev/service/validator/>. Documentation of formats and other useful information can be found at <https://anskaffelser.dev/postaward/>.

## 11 Recommended ftp clients

If the user does not already have an ftp client or other software to do the fpt/sftp operations for sending and fetching messages, ftp clients can be downloaded from the Internet. There are plenty of freeware to choose from, EVERY recommends Filezilla, CoreFTP and WinSCP.