



**Difi**

Direktoratet for  
forvaltning og ikt

# Call - CEF-TC-2017-2 – eProcurement

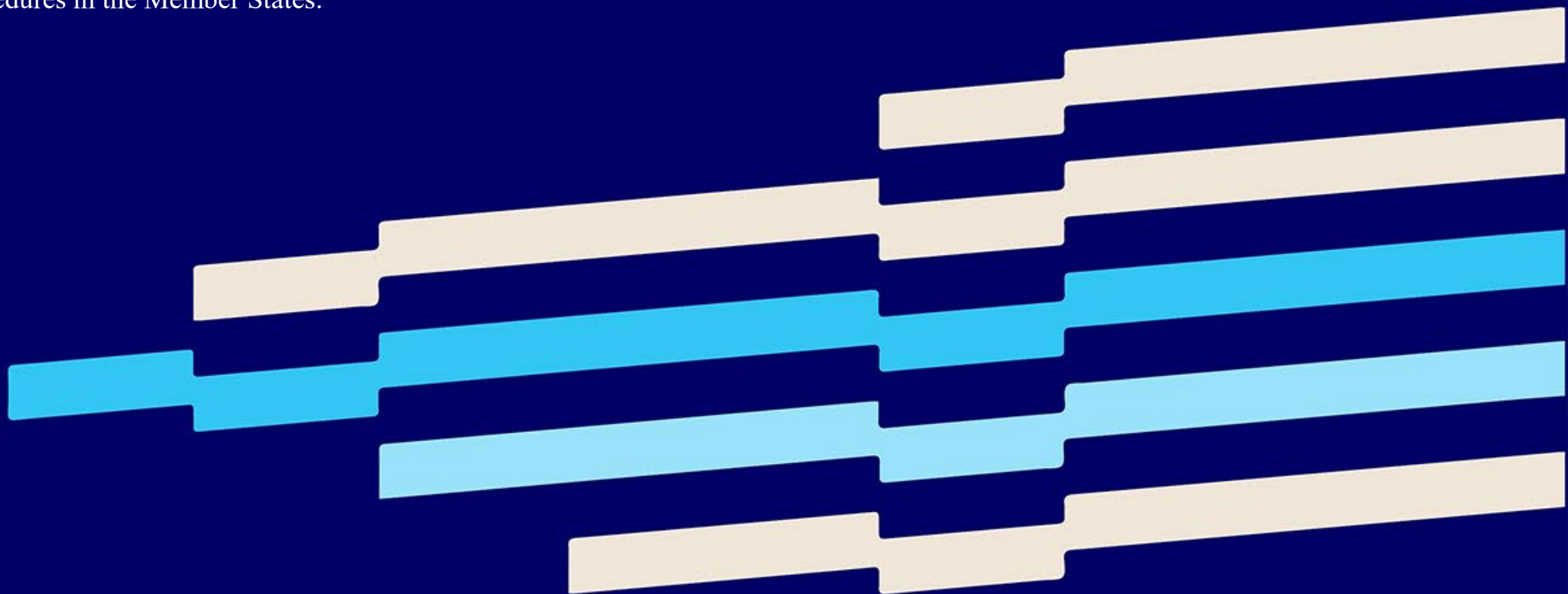
Task: The priority outcomes is to help to complete the transition to eProcurement in the Member States. In particular, they will facilitate cross-border bidding and contribute to simplify public procurement procedures in the Member States.

—

Alberto Chacón

<a.chacon@pixelware.com>

Brussel, 26.March 2019



# Who are we?

Difi and Diputación de Bizkaia as Public entities

EU-Supply, Visma, Mercell and PIXELWARE as suppliers for Contracting Authority's

Amesto as a supplier for the Economic operators



Diputación de Bizkaia



**amesto**

Merercell

| [eu-supply.com](https://eu-supply.com) |



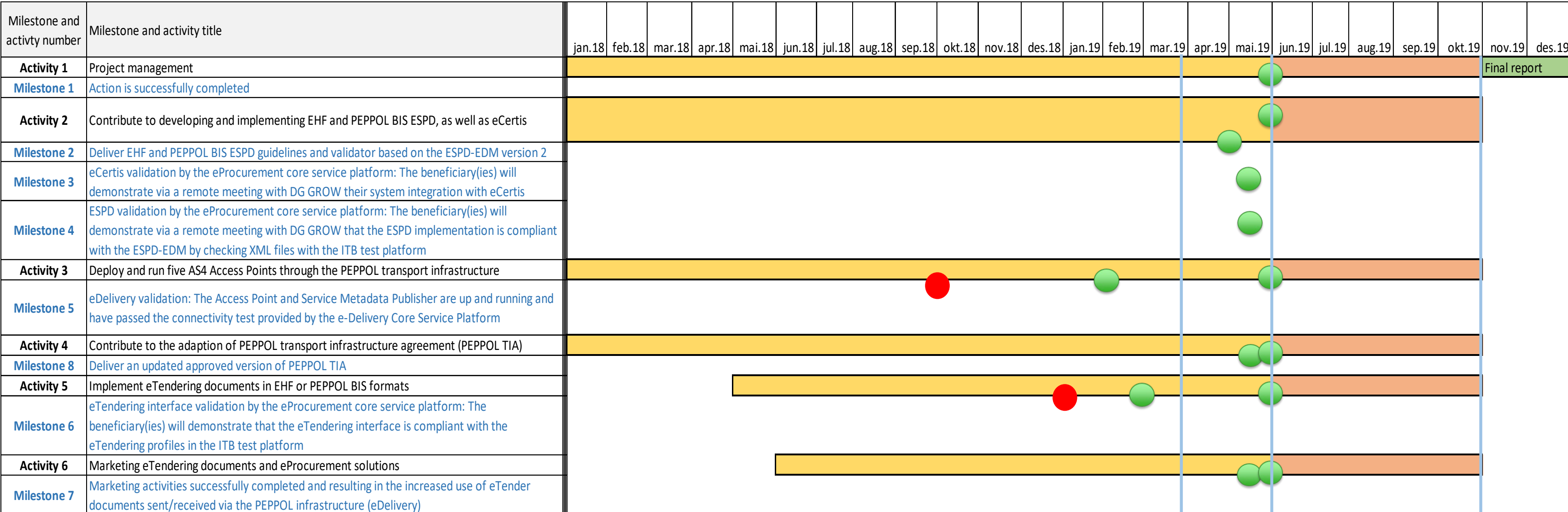
# The Project



- **Project timeline**
  - Start date: January 2018
  - End-date: 31.May 2019
  - New end-date: 31.October 2019
- **Transport: New Access Points**
  - Using AS4
  - ASiC
  - Testing with CEF Core Service and PEPPOL testbed
  - Testing with INTERPLAT consortium
- **BIS eProcurement formats**
  - **P001** - Procurement Procedure Subscription
  - **P002** - Procurement Documents Access
  - **P003** - Tender Submission
  - Testing with CEF ITB/ISA testbed

# Challenges

- **Project timeline**
  - Start date: January 2018
  - End-date: 31.May 2019 <<< Will not be ready – waiting for updated documentation/specifications/rules form OpenPEPPOL
  - New end-date: 31.October 2019 <<< Not granted yet
- **Transport: New Access Points**
  - <<< Missing Pre-award agreement from OpenPEPPOL for the Pre-award domain (Access Point agreement)
  - Using AS4 <<< Oxalis is not CEF conformant tested yet
  - ASiC <<< Use of encrypting – missing PEPPOL Service Provider certificates issued by OpenPEPPOL
  - Testing with CEF Core Service <<< Testing with CEF is a challenge
  - PEPPOL testbed
  - Testing with INTERPLAT consortium
- **BIS eProcurement formats**
  - <<< BIS specifications are not as good as they should be. Sent RFC to OpenPEPPOL
  - **P001** - Procurement Procedure Subscription <<< Documentation/specification/rules must updates needed
  - **P002** - Procurement Documents Access <<< Documentation/specification/rules must updates needed
  - **P003** - Tender Submission <<< Documentation/specification/rules must updates needed
  - Testing with CEF ITB/ISA testbed  
<<< OpenPEPPOL must send new rules and specifications before CEF ITB/ISA validator will be updated

# Timeline



 Milestone
 
 Status today
 
 Original end-date
 
 New end-date

An amendment for a postponing the project until 31.October 2019

# Access Point

# Access Points with AS4 protocol

- 5 new Access Points are getting ready
- Using the “OpenPEPPOL testbed” for approval of new AS4 Access Points
- Using the “eDelivery CEF core service” for approval for new AS4 Access Points
  - Connectivity testing is an issue with all installations except Domibus



**pixelware**

 **VISMA**

**amesto**

**Mer**cell

| [eu-supply.com](https://eu-supply.com) |

# Formats



# eTender and EHF ESPD



- ESPD
  - UBL 2.2 – ready for use
  - ESPD EDM 2.0.2 is in an official version but is it good enough? DGGrow is working on a final, final, final version ESPD 2.0.3.
  - ESPD-INT project has published ESPDemd 2.0 (*This is **not** a PEPPOL ESPD BIS 2.0 version!!*)
  - EHF ESPD 1.1 is ready for use. It is based on ESPD 1.0.2 with Lot. This will be used in Norway

eTender documents are ready (these are the documents that are to be developed and sent in this project):

- **P001** - Procurement Procedure Subscription
  - EO sends a **T001** to CA – “query for information about the Tender - **Subscribe to Procedure**”
  - CA sends a **T002** “receipt - **Subscribe to Procedure Confirmation**” to EO  
The EO is registered in the CA system so that all new information from the CA also goes to the EO.
- **P002** - Procurement Documents Access
  - EO sends a **T003** to CA - “asking for documents to the Tender - **Tender Status Enquiry** ”
  - CA sends a **T004** to EO with all documents in the **Call for Tenders** (or a link to where the documents are placed)  
**ESPD** will be sent but in various versions (ESPD 1.0.2 or ESPD 2.0.2 or EHF ESPD 1.1 or no ESPD)  
The EO is registered in the CA system so that all new information from the CA also goes to the EO.
- **P003** - Tender Submission
  - EO sends a **T005** to CA – **Tender** “containing all the documents for the bid”  
**ESPD** will be sent but in various versions (ESPD 1.0.2 or ESPD 2.0.2 or EHF ESPD 1.1 or no ESPD)  
ASiC is used – signed by the EO service provider, encrypted with the CA certificate, zipped
  - CA sends at **T006** to EO - **Tender Receipt** – to confirm that the Tender message has been received

# Transport

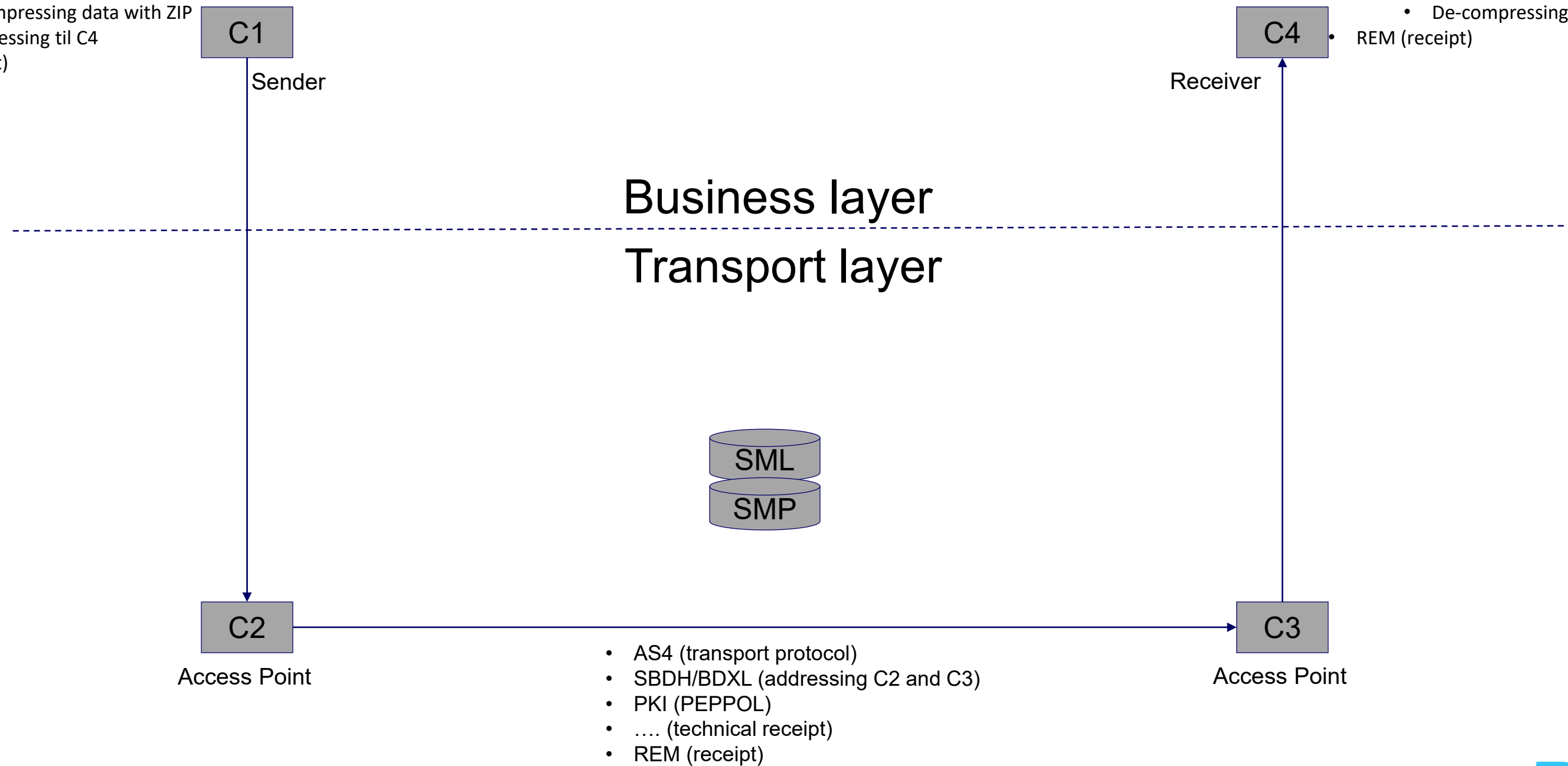
# Using PEPPOL 4-corner - Process – pre-award – AS4 (sending/receiving tendering documents)

## Process called AS4:

- ASiC (packing of the eTendering documents)
  - C4 – encryption – [SHA2 – 256](#),  
Format=[CMS RFC 5652](#), Key length= 256, Algorithm=AES-256, Certificate=....
  - C1 – signing of documents/manifest with hash
  - Compressing data with ZIP
- SBDH – addressing til C4
- REM (receipt)

## Process called AS4:


- ASiC (unpacking of the eTendering documents)
  - De-compressing ZIP
  - C4 – de-encryption
  - C1 – signature check
  - De-compressing ZIP
- REM (receipt)



# Tendering

**CA**

- Dekryptering
- ESPD
- Validation

1 

**Tendering**

Doffin → TED

**EO**

Office systems


4

Encryption public key  
Certificate from CA  
(Algoritme=AES-256  
CMS (Cades -n BES))

**Addressing**

SML  
SMP  
ELMA

Certifikat  
from PEPPOL  
PKI

2 

**Accesspoint CA**

- Timestamp

3 

**Accesspoint EO**

- Sending the ASiC to CA

**Services for EO**

Service poriver T005: 4a

- Authentication
- Validate the format
- Entcrypte
- Pakking ASiC
- Signing with EO certificate (new Service Provider certificate fromPEPPOL
- Signing with public key from EO
- Sending the message

T006:

- Unpacking the message

T006

**Services for CA**

Service poriver:

T005:

- UnEncrypte
- Unpakking ASiC
- Validate Signing (PEPPOL PKI on pre-award)

T006:

- Packing the ASiC

T006

Soap msg (AS4):  
Timestamp  
Hach til melding  
Hach til ASiC payload

eDelivery

- STORK
- ID-Proten

New pre-award  
Certificate  
from PEPPOL

# ASiC

# Payload for this project

- **P001 - Procurement Procedure Subscription**
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# ASiC container

T005

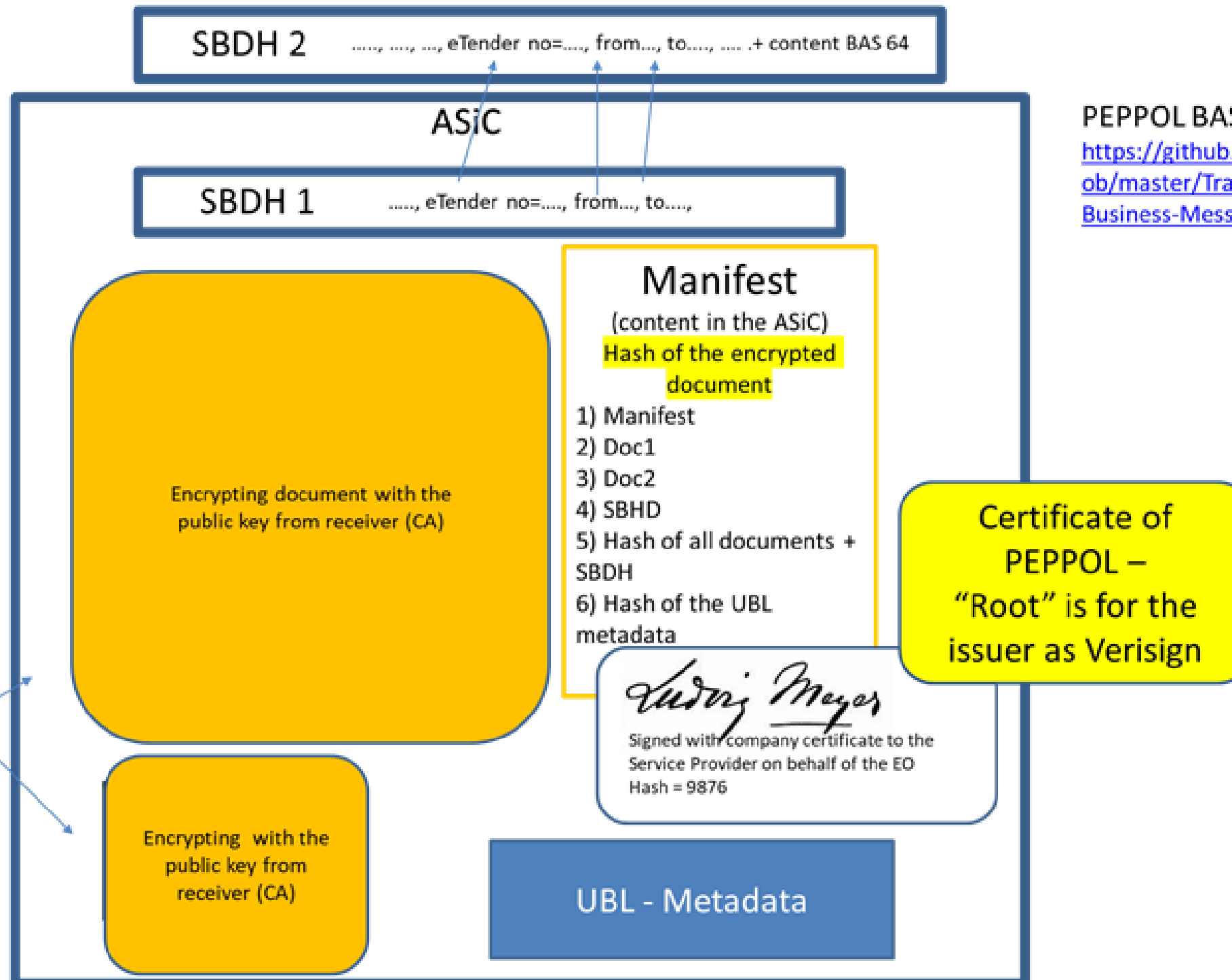
TenderSubmission

must be encrypted.

All other transactions

does not need to

be encrypted



PEPPOL BAS 64 compression

<https://github.com/OpenPEPPOL/documentation/blob/master/TransportInfrastructure/PEPPOL-EDN-Business-Message-Envelope-1.2-2019-02-01.pdf>

Separately encrypted documents

# RFC



Dear OpenPEPPOL PRACC members,

In the past year new PEPPOL BIS adding value to the pre-award PEPPOL suite have been produced for the eTendering usage.

Hence a new team covering the development and testing of the requests for changes of the specs must be established as soon as possible.

The workgroup is open for all members.

**In order to join the workgroup please state your interest no later than 20 March 2019.**

**To: [openpeppol@peppol.eu](mailto:openpeppol@peppol.eu) and [Isabella.rapisarda@consip.it](mailto:Isabella.rapisarda@consip.it)**

**Subject: PRACC developing and testing team**

The members showing interest in joining the team will be invited to PRACC Face-to-Face meeting in Brussels Tuesday 26 of March 2019ck to back to GA.

Best regards,

Isabella Rapisarda  
PRACC Coordinator

