



PEPPOL TICC workgroup

TICC workgroup capability
extension

Agenda

1. The mandate - Niels
 2. The workgroup setup. – Niels
 3. Subgroup status and issue - Transport of large files - Erlend
 4. Subgroup status and issue New Payloads (Ex Asic Container, Edifact) - Juan
 5. Subgroup status and issue Security features (ex: timestamps, signature, encryptions) - Erlend
 6. Plan for completing the work.
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The mandate

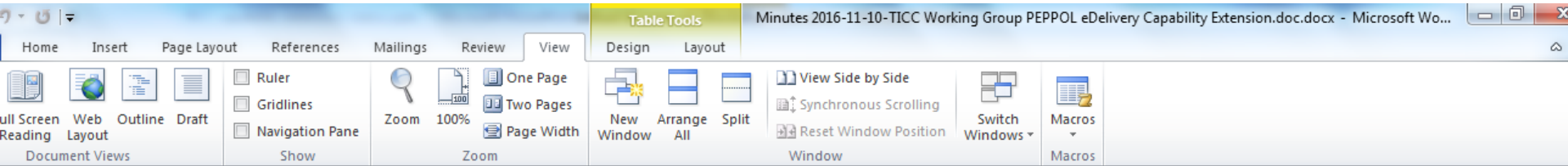
Subjects:

- To analyse, define, describe Requirements and high-level design of critical extensions to the PEPPOL eDelivery Capabilities such as:
- Transport of large files
- New Payloads (Ex Asic Container, Edifact
- Security features (ex: timestamps, signature, encryptions)
- Other new requirements

Deliverables:

- The WG are committed to provide the following deliverables to OpenPEPPOL
- Pre-analyse report: identification of the need for extensions
- Requirement specification to all of the identified new Capability Extensions
- Design Documentation for all of the identified new Capability Extensions
- Revised eDelivery specifications/profile
- Implementation plan
- Relevant request for change to CEF eDelivery

Workgroup setup



Invited participants:

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Agenda for meeting 10th November:

1. Round call

Workgroup setup

Workgroup setup:

1. Biweekly meetings until ultimo October
2. Weekly meetings from now.
3. Groups are open for all OpenPEPPOL members.
4. Three subgroups – one for each subject:
 - Transport of large files
 - New Payloads (Ex Asic Container, Edifact)
 - Security features (ex: timestamps, signature, encryptions)

The first deliverable:

- Pre-analyse report: identification of the need for extensions

has been in TICC hearing process.

..... Next and rest deliverables are expected before Christmas.

Transport of large files (1)

What is the official limit of document size in the PEPPOL network today?

10 MB?

200 MB?

25 MB?

500 MB?

50 MB?

1 GB?

100 MB?

2 GB?

Transport of large files (2)

The current proposal define some soft limits, allowing vendors to make expectations for scaling.

Classification	Limit
Class A	100 MB (101 * 1024 ² bytes)
Class B	250 MB (251 * 1024 ² bytes)
Class C	500 MB (501 * 1024 ² bytes)
Class D	2.0 GB (2.0 * 1024 ³ bytes)

New Payloads

The proposed solution allows binary data and text payloads to be transported.
XSD for payloads 100% defined

Text payloads → <TextContent>

```
<StandardBusinessDocument>
  <StandardBusinessDocumentHeader>
    [...]
  </StandardBusinessDocumentHeader>
  <TextContent xmlns="http://peppol.eu/xsd/ticc/envelope/1.0" mimeType="Application/EDIFACT">
    UNB+UNOA:2+9930711378399:14+7798032711116:14+160927:2252+EW861380947'UNH+186453437+CONTRL:D:96A:
    [...]
  </TextContent>
</StandardBusinessDocument>
```

Binary payloads → <BinaryContent>

ASiC container used for binary data transport in pre and post-award

```
<StandardBusinessDocument xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentHeader">
  <StandardBusinessDocumentHeader>
    [...]
  </StandardBusinessDocumentHeader>
  <BinaryContent xmlns="http://peppol.eu/xsd/ticc/envelope/1.0"
    mimeType="application/vnd.etsi.asic-e+zip"
    encoding="UTF-8">
    UEsDBBQABgAIAAAAIQAmLuVxCwIAAHwKAAATAAgCWONvbnRlbnRfVHlwZXNdLnhtbCCiBAIooAACAAAAAAAAAAAAAAAAAAAAAA [...]
  </BinaryContent>
</StandardBusinessDocument>
```


New Payloads

Why ASiC

- **Allows any binary payload to be transmitted**
- **Offers Message integrity**
- **Offers message authentication**
- **Because of compression offers bandwidth optimization**
- **Allows reusing current infrastructure for transport**

Still to be defined

- **ASiC should be sent C1 to C4 or just C2 to C3 ?**
- **Security ?**

Security features (1)

3 steps to increase security in the protocol according to requirements raised in pre-award:

Using SHA-512 as described in 3.4.3.2 in RFC 3851.

Using field “Date” as defined by IANA as described in 3.3 in RFC 3798.

Adding new transport profile (“busdox-transport-as2-ver1p0r1”?) as this is not backwards compatible with the current transport profile for AS2.

The work ahead

Workgroup continue with

1. Weekly meetings.
2. Groups are open for all OpenPEPPOL members.

We plan to complete the last deliverables and send those into TICC hearing before Christmas:

- Requirement specification to all of the identified new Capability Extensions
- Design Documentation for all of the identified new Capability Extensions
- Revised eDelivery specifications/profile
- Implementation plan
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Implementation date – deadline three month after decision, depending on whether this is possible and necessary.