AS4 Gateway
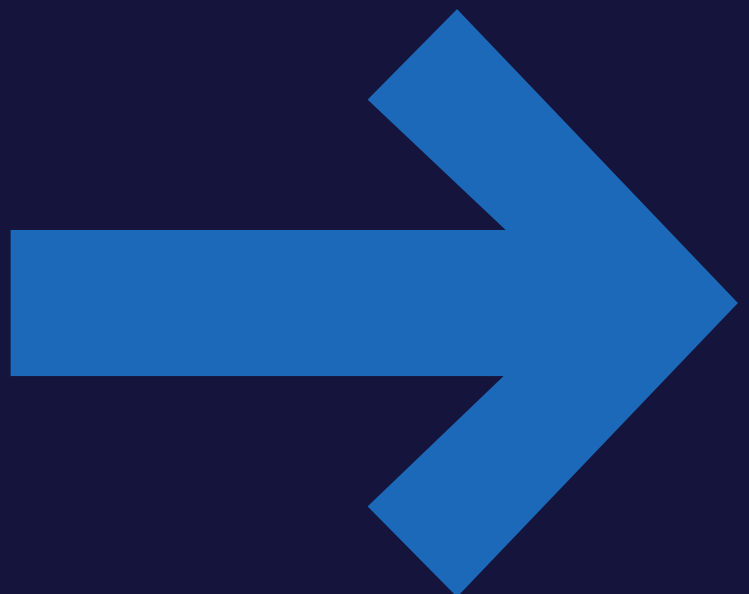
Sending Multiple Declarations

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Document change history

Version	Description	Who	When
1.0.0	Initial version	Ulrik Andersen	11-04-2024

Contents

Sending multiple documents

For all the services where a message (e.g. a declaration) is attached, it is possible to send multiple documents with one request. To do so the following changes are required compared to sending a single document:

- A different path must be used in the HTTP request: /exchange/shared
- Attach multiple documents to the SOAP Envelope.
- The synchronous reply will not contain the result of the XML validation, but just an AS4 receipt specifying whether the request was successfully received by the Gateway.
- If the XML validation of one or more of the attached documents fail, then a message (for each failed document) will be generated and returned via the standard Message Partition Channel.

Attach multiple documents

To send multiple documents in one request, simply add each document as a SOAP attachment, and link to the attachments in the SOAP envelope. E.g:

```
<eb3:Messaging xmlns:eb3="http://docs.oasis-open.org/ebxml-
msg/ebms/v3.0/ns/core/200704/" xmlns:mustUnderstand=...>
  <eb3:UserMessage>
  ...
    <eb3:PayloadInfo>
      <eb3:PartInfo href="cid:5057f261-3284-45c9-b18f-123524e339cf-379125387">
        <eb3:PartProperties>
          <eb3:Property name="original-file-name">document1.xml</eb3:Property>
          <eb3:Property name="attachment-id">abc00001</eb3:Property>
        </eb3:PartProperties>
      </eb3:PartInfo>
      <eb3:PartInfo href="cid:5057f261-3284-45c9-b18f-123524e339cf-1082392579">
        <eb3:PartProperties>
          <eb3:Property name="original-file-name">document2.xml</eb3:Property>
          <eb3:Property name="attachment-id">abc00002</eb3:Property>
        </eb3:PartProperties>
      </eb3:PartInfo>
    </eb3:PayloadInfo>
  </eb3:UserMessage>
</eb3:Messaging>
```

The property `attachment-id` is used for identifying the document in returned error messages. Thus, this value should be unique within a certain time period (e.g. 48 hours just to be on the safe side).

AS4 receipt

The HTTP response of the request will contain an AS4 receipt. The element `RefToMessageId` will contain a reference to the message ID of the request.

The snippet below shows an example of an AS4 receipt when the request was received successfully.

```
<eb:Messaging xmlns:eb="http://docs.oasis-open.org/ebxml-
msg/ebms/v3.0/ns/core/200704/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
soapenv:mustUnderstand="true" wsu:Id="id-14">
  <eb:SignalMessage>
    <eb:MessageInfo>
      <eb:Timestamp>2024-02-21T12:08:41.028Z</eb:Timestamp>
      <eb:MessageId>ce1d522c-1441-4a14-9820-3369a791da14</eb:MessageId>
      <eb:RefToMessageId>fd57d851-0f72-4b81-82fe</eb:RefToMessageId>
    </eb:MessageInfo>
```

```
      <eb:Receipt>
        <ebbpsig:NonRepudiationInformation xmlns:ebbpsig="http://docs.oasis-
open.org/ebxml-bp/ebbp-signals-2.0">
          ...
        </ebbpsig:NonRepudiationInformation>
      </eb:Receipt>
   </eb:SignalMessage>
</eb:Messaging>
```

If an error occurs during the initial processing of the request, then a negative receipt will be returned:

```
<?xml version='1.0' encoding='UTF-8'?>
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
  <soapenv:Header>
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis...">
...
    </wsse:Security>
    <eb:Messaging xmlns:eb="http://docs.oasis-
open.org/ebxmlmsg/ebms/v3.0/ns/core/200704/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" wsu:Id="id-2">
      <eb:SignalMessage>
        <eb:MessageInfo>
          <eb:Timestamp>2024-02-22T09:46:59.267Z</eb:Timestamp>
          <eb:MessageId>bb5c6ab1-0063-4b37-871f</eb:MessageId>
          <eb:RefToMessageId>dfde2f11-fe49-4fa5-8920</eb:RefToMessageId>
        </eb:MessageInfo>
        <eb:Error category="Content" errorCode="EBMS:0004" origin="ebMS"
refToMessageInError="dfde2f11-fe49-4fa5-8920" severity="failure"
shortDescription="Other">
          <eb:Description xml:lang="en-US">Not authorized for service:
DMS.Shared.Declaration.GetStatus</eb:Description>
        </eb:Error>
      </eb:SignalMessage>
    </eb:Messaging>
  </soapenv:Header>
  <soapenv:Body xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-utility-1.0.xsd" wsu:Id="Id-606991909">
    <soapenv:Fault>
    <soapenv:Code>
      <soapenv:Value>soapenv:Sender</soapenv:Value>
    </soapenv:Code>
    <soapenv:Reason>
      <soapenv:Text xml:lang="en-US">EBMS:0004 - Other - Not authorized for
service: DMS.Shared.Declaration.GetStatus</soapenv:Text>
    </soapenv:Reason>
    <soapenv:Detail/>
    </soapenv:Fault>
  </soapenv:Body>
</soapenv:Envelope>
```

If a negative receipt is returned, then the request has NOT been processed and no documents have been sent to DMS. The error must be corrected, and the request must be resent.

XML validation errors

If an XML validation error occurs (or any other error) during the processing of a document, then an error response will be generated and returned on the standard MPC. The returned message will contain a reference to the failed document in the property RefToOriginalMessageId (will contain the value of the property attachment-id in the original request):

```
<?xml version='1.0' encoding='UTF-8'?>
<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
  <soapenv:Header xmlns:wsa="http://www.w3.org/2005/08/addressing">
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-
200401-wss-wssecurity-secext-1.0.xsd" soapenv:mustUnderstand="true">
    ...
    </wsse:Security>
    <eb:Messaging xmlns:eb="http://docs.oasis-open.org/ebxml-
msg/ebms/v3.0/ns/core/200704/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
soapenv:mustUnderstand="true" wsu:Id="id-30">
      <eb:UserMessage mpc="urn:fdc:dk.skat.mft.DMS/response/CVR_30808460">
        <eb:MessageInfo>
          <eb:Timestamp>2024-04-10T08:35:06.053Z</eb:Timestamp>
          <eb:MessageId>255d2848-829c-4a51-a491-76874ab1be77</eb:MessageId>
        </eb:MessageInfo>
        <eb:PartyInfo>
          <eb:From>
            <eb:PartyId
type="string">DMS.Import2.Declaration.Submit</eb:PartyId>
            <eb:Role>http://docs.oasis-open.org/ebxml-
msg/ebms/v3.0/ns/core/200704/responder</eb:Role>
          </eb:From>
          <eb:To>
            <eb:PartyId type="string">CVR_30808460_UI_e7057bbd-5e7d-4200-ad81-
623333d5c656_AS4</eb:PartyId>
            <eb:Role>http://docs.oasis-open.org/ebxml-
msg/ebms/v3.0/ns/core/200704/initiator</eb:Role>
          </eb:To>
        </eb:PartyInfo>
        <eb:CollaborationInfo>
          <eb:Service type="string">http://docs.oasis-open.org/ebxml-
msg/as4/200902/service</eb:Service>
          <eb:Action>Response</eb:Action>

<eb:ConversationId>org:holodeckb2b:test:conversation</eb:ConversationId>
        </eb:CollaborationInfo>
        <eb:MessageProperties>
          <eb:Property name="RefToOriginalMessageId">abc00002</eb:Property>
        </eb:MessageProperties>
        <eb:PayloadInfo>
          <eb:PartInfo href="cid:A1712738106047.1962762@j1UUyd5nKT-CYsIL4kbq">
            <eb:PartProperties/>
          </eb:PartInfo>
        </eb:PayloadInfo>
      </eb:UserMessage>
    </eb:Messaging>
  </soapenv:Header>
  <soapenv:Body xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-
wss-wssecurity-utility-1.0.xsd" wsu:Id="Id-1203761726"/>
</soapenv:Envelope>
```

Example of an error message attached to the above SOAP Envelope:

```
<?xml version="1.0" encoding="UTF-8"?>
<st:StatusResponse xmlns:st="urn:dk:skat:mft:DMS.declaration.status:1">
  <st:Code>Error</st:Code>
  <st:Message>[&quot;cvc-complex-type.2.4.a: Invalid content was found starting
with element &apos;{&quot;urn:wco:datamodel:WCO:DEC-
```

```
DMS:2&quot;:FunctionCode1}&apos;. One of &apos;{&quot;urn:wco:datamodel:WCO:DEC-
DMS:2&quot;:FunctionCode}&apos; is expected.&quot;]</st:Message>
</st:StatusResponse>
```