# Explanation of handling evidence payloads in AS4, OOTS and Domibus

eDelivery AS4 messages can include one or multiple payloads. We use this feature in OOTS for evidence responses, which are a combination of a part defined in a standard format we use (RegRep **QueryRequest** - **QueryResponse**) and the evidences in any format (PDF, XML, whatever).

In Domibus you can create and submit an evidence response message including its evidences by submitting multiple payloads in a single **submitRequest** with one or more **payload** elements. The first one (in document order) should be the OOTS **QueryResponse**. If there are any evidences, they should be submitted as the second, third etc. **payload** elements.

Each payload needs to have a unique payload identifier. The format should use the same syntax as an email address, i.e. it should have one occurrence of the “@” character. In the below the assumption is that the identifier is a combination of a UUID and a suffix based on a hypothetical AS4 access point server name but that’s just a convention. It could be used for submitting a response to a query to a vehicle registration agency for a user who has two vehicles.

<soap:Body>  
 <tns:submitRequest>  
 <payload payloadId="cid: 29b176bb-7409-40b5-921f-c1f5bb0ebbca@eucaris.rdw.nl"  
 contentType="application/x-ebrs+xml">  
 **<!-- -this is the OOTS RegRep QueryResponse with a RegistryObjectList**   
 **containing a RegistryObject for any vehicle found and confirmed by the user ->**  
 <value>PD94bWwgdmVy and more base64 encoded content c =</value>  
 </payload>  
 <payload payloadId="cid: 0c4981c7-3e99-4816-8979-eb4c0310cc72@eucaris.rdw.nl"  
 contentType="text/xml">  
 **<!-- -this is the evidence for a first vehicle found and confirmed by the user.**  
 **It could be in the XML format used by EUCARIS ->**  
 <value>PD94bWwgdmVy and more base64 encoded content c =</value>  
 </payload>  
 <payload payloadId="cid: edccf534-2133-4fd1-ad25-f6b80e2b05d0@eucaris.rdw.nl"  
 contentType="text/xml">  
 **<!-- -this is the evidence for a second vehicle found and confirmed by the user ->**  
 <value>PD94bWwgdmVy and more base64 encoded content c =</value>  
 </payload>  
 </tns:submitRequest>  
 </soap:Body>

The payload identifiers are used as MIME Content Identifier in the AS4 message, so the recipient of the message also has access to them and can find the identifier for a part or find a part based on its identifier.

The identifiers can also be used to correlate the payloads with information in the RegRep **QueryResponse** as each evidence is described as a **RegistryObject** that has a reference to the payload using a **RepositoryItemRef.** All the registry objects are bundled in a **RegistryObjectList**.

Here is how a **QueryResponse** for a vehicle query could reference the two other parts. They reference the second and third payload parts which contain the vehicle evidences:

<query:QueryResponse>  
 <!-- … … … -->   
 <rim:RegistryObjectList>  
 <rim:RegistryObject>  
 <!-- … … … -->   
 <rim:RepositoryItemRef   
 xlink:href="cid:0c4981c7-3e99-4816-8979-eb4c0310cc72@eucaris.rdw.nl" />  
 </rim:RegistryObject>  
 <rim:RegistryObject>  
 <!-- … … … -->   
 <rim:RepositoryItemRef   
 xlink:href="cid:edccf534-2133-4fd1-ad25-f6b80e2b05d0@eucaris.rdw.nl" />  
 </rim:RegistryObject>  
 </rim:RegistryObjectList>

</query:QueryResponse>

Simplistic visualization:

