

Konvertering af Peppol MLR

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Indledning

Dette dokument beskriver konvertering fra Peppol's Message Level Response til OIOUBL Application Response

Observeringer

LineResponse\Response\Status

Status under LineResponse\Response er ikke defineret i OIOUBL Application Response, men er tilladt i Schematronen. Da Peppol benytter dette segment - og da det ikke er ulovlig i OIOUBL, benytter konverteringen dette for at understøtte informationen fra Peppol

Dokumenter status

Nedenstående vises den forskel der er mellem de status koder der bruges i MLR og AR

Table 1. Status koder

	MLR	AR
Dokument hoved		
ResponseCode	Message acknowledgement	TechnicalAccept
ResponseCode	Accepted	TechnicalAccept
ResponseCode	Rejected	TechnicalReject
Dokument linjer		
ResponseCode	Message acknowledgement	BusinessAccept
ResponseCode	Accepted	BusinessAccept
ResponseCode	Rejected	BusinessReject
Dokument linjer - Status Reason Code		
StatusReasonCode	Business rule violation - fatal	BusinessReject
StatusReasonCode	Business rule violation - warning	BusinessAccept
StatusReasonCode	Syntax violation	BusinessReject

Dokumenttyper

En MLR kan referere til langt over 100 dokumenttyper, hvor i mod AP kun har 19 dokumenttyper - og der er ikke et 1-1 sammenfald

Følgende sammenfald er fundet, og understøttes

- 380 = Invoice
- 381 = Credit Note

Mapning MLR til Application Response

Nedenstående tabel vis mapningen mellem Peppol Message Level Response og OIOUBL Application Response, samt kardinaliteten for de to dokumenter.

Ligeledes er der under bemærkninger anført, hvis feltet mangler i henholdsvis Peppol eller OIOUBL - Selv håndteringen af mangler og afvigelser er beskrevet under [OIOUBL Application Response validering](#)

Table 2. Mapping

MessageLevelResponse		ApplicationResponse		
	Kard		Kard	Bemærkning
<ApplicationResponse>	1..1	<ApplicationResponse>	1..1	
		- <cbc:UBLVersionID>	1..1	Krævet i OIOUBL
- <cbc:CustomizationID>	1..1	- <cbc:CustomizationID>	1..1	
- <cbc:ProfileID>	1..1	- <cbc:ProfileID>	1..1	
- <cbc:ID>	1..1	- <cbc:ID>	1..1	
- <cbc:IssueDate>	1..1	- <cbc:IssueDate>	1..1	
- <cac:SenderParty>	1..1	- <cac:SenderParty>	1..1	
-- <cbc:EndpointID>	1..1	-- <cbc:EndpointID>	1..1	
		-- <cac:PartyName>	1..1	Krævet når "PartyIdentification" ikke bruges men findes ikke i Peppol
		--- <cbc:Name>	1..1	
		-- </cac:PartyName>		
		-- <cac:PartyLegalEntity>	1..1	Krævet i OIOUBL - men findes ikke i Peppol
		--- <cbc:CompanyID>	1..1	
		-- </cac:PartyLegalEntity>		
- </cac:SenderParty>		- </cac:SenderParty>		
- <cac:ReceiverParty>	1..1	- <cac:ReceiverParty>	1..1	
-- <cbc:EndpointID>	1..1	-- <cbc:EndpointID>	1..1	
		-- <cac:PartyName>	1..1	Krævet når "PartyIdentification" ikke bruges men findes ikke i Peppol
		--- <cbc:Name>	1..1	
		-- </cac:PartyName>	1..1	

MessageLevelResponse		ApplicationResponse		
		-- <cac:PartyLegalEntity>	1..1	Krævet i OIOUBL men findes ikke i Peppol
		--- <cbc:CompanyID>	1..1	
		-- </cac:PartyLegalEntity>		
- </cac:ReceiverParty>		- </cac:ReceiverParty>		
- <cac:DocumentResponse>	1..1	- <cac:DocumentResponse>	1..1	
-- <cac:Response>	1..1	-- <cac:Response>	1..1	
		--- <cbc:ReferenceID>	1..1	Findes ikke i Peppol
--- <cbc:ResponseCode>	1..1	--- <cbc:ResponseCode>	1..1	Peppol værdier konverteringes - Se OIOUBL specifikation
--- <cbc:Description>	0..1	--- <cbc:Description>	0..n	
-- </cac:Response>		-- </cac:Response>		
-- <cac:DocumentReference>	1..1	-- <cac:DocumentReference>	1..1	
--- <cbc:ID>	1..1	--- <cbc:ID>	1..1	
--- <cbc:DocumentTypeCode>	0..1	--- <cbc:DocumentTypeCode>	1..1	
--- <cbc:VersionID>	0..1			Findes ikke i OIOUBL og er ikke et krav i Peppol
-- </cac:DocumentReference>	1..1	-- </cac:DocumentReference>	1..1	
-- <cac:LineResponse>	1..1	-- <cac:LineResponse>	0..n	
--- <cac:LineReference>	1..1	--- <cac:LineReference>	1..1	
---- <cbc:LineID>	1..1	---- <cbc:LineID>	1..1	
--- </cac:LineReference>		--- </cac:LineReference>		
--- <cac:Response>	1..1	--- <cac:Response>	1..1	
		---- <cbc:ReferenceID>	1..1	Krav i OIOUBL men findes ikke i Peppol
---- <cbc:ResponseCode>	0..1	---- <cbc:ResponseCode>	1..1	
---- <cbc:Description>	1..1	---- <cbc:Description>	0..n	
---- <cac:Status>	1..1	---- <cac:Status>		Findes ikke i OIOUBL

MessageLevelResponse		ApplicationResponse		
----- <cbc:StatusReasonCode>	1..1	----- <cbc:StatusReasonCode>		Findes ikke i OIOUBL
---- </cac:Status>		---- </cac:Status>		
--- </cac:Response>		--- </cac:Response>		
-- </cac:LineResponse>		-- </cac:LineResponse>		
- </cac:DocumentResponse >		- </cac:DocumentResponse >		
</ApplicationResponse>		</ApplicationResponse>		

OIOUBL Application Response validering

Nedenstående tabel vise regler/valideringer som bruges under konvertering til at sikre en valid OIOUBL Application Response

Table 3. Validering

ApplicationResponse			
	Kard	Regler	Bemærkning
<ApplicationResponse>	1..1	F-AR001	Validering af korrekt Rodelement og NameSpace
- <cbc:UBLVersionID>	1..1		Fixed: 2.1 (Findes ikke i Peppol)
- <cbc:CustomizationID>	1..1		Fixed: OIOUBL-2.1 (Peppol ID ikke understøttet i OIOUBL)
- <cbc:ProfileID>	1..1		Fixed: Procurement-OrdSimR-BilSim-1.0 - Peppol profiler ikke understøttet i OIOUBL
- <cbc:ID>	1..1		
- <cbc:IssueDate>	1..1		
- <cac:SenderParty>	1..1		
- - <cbc:EndpointID>	1..1		Nedenstående Peppol schemeID er understøttet alle andre konverteres til ZZZ 0088=GLN,0096=DK:P,0184=DK:CVR,0198=DK:SE,0007=SE:ORGNR,9955=SE:VAT,0060=DUNS,0097=IT:FTI,0135=IT:SI A,0142=IT:SECETI,0009=FR:SIRET,0192=NO:ORGNR,0212=FI:ORGN R,0213=FI:VAT, 0037=FI:OVT
- - <cac:PartyName>	1..1		Krævet når PartyIdentification ikke bruges Findes ikke i Peppol MLR
- - - <cbc:Name>	1..1		Sender's 'EndpointID' indsættes
- - </cac:PartyName>			
- - <cac:PartyLegalEntity>	1..1		Krævet i OIOUBL - Finders ikke i Peppol MLR
- - - <cbc:CompanyID>	1..1		Sender's EndpointID indsættes med SchemaID=ZZZ
- - </cac:PartyLegalEntity>			
- </cac:SenderParty>			
- <cac:ReceiverParty>	1..1		

ApplicationResponse			
-- <cbc:EndpointID>	1..1		Nedenstående Peppol schemeID er understøttet alle andre konverteres til ZZZ 0088=GLN,0096=DK:P,0184=DK:CVR,0198=DK:SE,0007=SE:ORGNR,9955=SE:VAT,0060=DUNS,0097=IT:FTI,0135=IT:SI A,0142=IT:SECETI,0009=FR:SIRET,0192=NO:ORGNR,0212=FI:ORGN R,0213=FI:VAT, 0037=FI:OVT
-- <cac:PartyName>	1..1		Krævet når PartyIdentification ikke bruges - Findes ikke i Peppol MLR
--- <cbc:Name>	1..1		Receiver's EndpointID indsættes
-- </cac:PartyName>	1..1		
-- <cac:PartyLegalEntity>	1..1		Krævet i OIOUBL - Finders ikke i Peppol MLR
--- <cbc:CompanyID>	1..1		Receiver's EndpointID indsættes med SchemaID=ZZZ
-- </cac:PartyLegalEntity>			
- </cac:ReceiverParty>			
- <cac:DocumentResponse>	1..1		
-- <cac:Response>	1..1		
--- <cbc:ReferenceID>	1..1		Finder ikke i Peppol men krævet i OIOUBL - Default 1
--- <cbc:ResponseCode>	1..1		Konvertering fra Peppol til App.Res - AP (Accepted) = BusinessAccept - AB (Message acknowledgement) = BusinessAccept - RE (Rejected) = BusinessReject
--- <cbc:Description>	0..n		
-- </cac:Response>			
-- <cac:DocumentReference>	1..1		
--- <cbc:ID>	1..1		

ApplicationResponse			
--- <cbc:DocumentTypeCode>	1..1		Findes ikke i OIOUBL Application Reponse med er gyldig i Schema hvorfor følgende konvertering sker - 380 (Commercial invoice) = Invoice - 381 (Credit note) = CreditNote Andre værdier understøttes ikke pt - Peppol værdier https://docs.peppol.eu/poacc/upgrade-3/codelist/UNCL1001/
-- </cac:DocumentReference>			
-- <cac:LineResponse>	0..n		
--- <cac:LineReference>	1..1		
---- <cbc:LineID>	1..1		
--- </cac:LineReference>			
--- <cac:Response>	1..1		
---- <cbc:ReferenceID>	1..1		Fixed 1 (Krav i OIOUBL men findes ikke i Peppol)
---- <cbc:ResponseCode>	1..1		
---- <cbc:Description>	0..n		
---- <cac:Status>	0..1		Segmentet er ikke beskrevet i OIOUBL men ikke ulovlig hvorfor informationen indsættes
----- <cbc:StatusReasonCode>	1..1		- BV (Business rule violation, fatal) = BusinessReject - BW (Business rule violation, warning) = BusinessAccept - SV(Syntax violation) = BusinessReject
---- </cac:Status>			
--- </cac:Response>			
-- </cac:LineResponse>			
- </cac:DocumentResponse>			
</ApplicationResponse>			

Eksempel filer

Nedenstående er et eksempel på en konvertering fra Peppol Message Level Response til OIOUBL Application Response

Message Level Response - Input

Eksempel på en Peppol Message Level Response

```
<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:CustomizationID>urn:fdc:peppol.eu:poacc:trns:mlr:3</cbc:CustomizationID>
  <cbc:ProfileID>urn:fdc:peppol.eu:poacc:bis:mlr:3</cbc:ProfileID>
  <cbc:ID>MLR-ID123</cbc:ID>
  <cbc:IssueDate>2016-08-15</cbc:IssueDate>
  <cbc:IssueTime>12:00:00</cbc:IssueTime>
  <cac:SenderParty>
    <cbc:EndpointID schemeID="0088">7300010000001</cbc:EndpointID>
  </cac:SenderParty>
  <cac:ReceiverParty>
    <cbc:EndpointID schemeID="0088">7315458756328</cbc:EndpointID>
  </cac:ReceiverParty>
  <cac:DocumentResponse>
    <cac:Response>
      <cbc:ResponseCode>RE</cbc:ResponseCode>
      <cbc:Description>Rejected due to validation error</cbc:Description>
    </cac:Response>
    <cac:DocumentReference>
      <cbc:ID>EnvelopeID-12456789</cbc:ID>
      <cbc:DocumentTypeCode>380</cbc:DocumentTypeCode>
      <cbc:VersionID>2</cbc:VersionID>
    </cac:DocumentReference>
    <cac:LineResponse>
      <cac:LineReference>
        <cbc:LineID>/Invoice/cbc:InvoicedLine[1]/cbc:ID[1]</cbc:LineID>
      </cac:LineReference>
      <cac:Response>
        <cbc:ResponseCode>AP</cbc:ResponseCode>
        <cbc:Description>BR-21 - Each Invoice line (BG-25) shall have an
Invoice line identifier (BT-126).</cbc:Description>
        <cac:Status>
          <cbc:StatusReasonCode>SV</cbc:StatusReasonCode>
        </cac:Status>
      </cac:Response>
    </cac:LineResponse>
    <cac:LineResponse>
```

```

    <cac:LineReference>
      <cbc:LineID>
/Invoice/cbc:InvoicedLine[2]/cbc:InvoicedQuantity[1]</cbc:LineID>
      </cac:LineReference>
    <cac:Response>
      <cbc:ResponseCode>RE</cbc:ResponseCode>
      <cbc:Description>BR-22 - Each Invoice line (BG-25) shall have an
Invoiced quantity (BT-129).</cbc:Description>
      <cac:Status>
        <cbc:StatusReasonCode>BV</cbc:StatusReasonCode>
      </cac:Status>
    </cac:Response>
  </cac:LineResponse>
</cac:DocumentResponse>
</ApplicationResponse>

```

Application Response - Resultat efter konvertering

Eksempel på resultatet af en konvertering af ovenstående

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- - - - - - -->
<!--Converted from Peppol Message Level Response to an OIOUBL Application Response-->
<!--using the public XSLT conversion provided by Danish Business Authority.-->
<!-- - - - - - -->
<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"
  xmlns:default=
    "urn:oasis:names:specification:ubl:schema:xsd:ApplicationResponse-2">
  <cbc:UBLVersionID>2.1</cbc:UBLVersionID>
  <cbc:CustomizationID>OIOUBL-2.1</cbc:CustomizationID>
  <cbc:ProfileID schemeAgencyID="320" schemeID="urn:oioubl:id:profileid-1.5"
>Procurement-BilSim-1.0</cbc:ProfileID>
  <cbc:ID>MLR-ID123</cbc:ID>
  <cbc:IssueDate>2016-08-15</cbc:IssueDate>
  <cac:SenderParty>
    <cbc:EndpointID schemeAgencyID="9" schemeID="GLN">7300010000001</cbc:EndpointID>
    <cac:PartyName>
      <cbc:Name>7300010000001</cbc:Name>
    </cac:PartyName>
    <cac:PartyLegalEntity>
      <cbc:CompanyID schemeID="ZZZ">7300010000001</cbc:CompanyID>
    </cac:PartyLegalEntity>
  </cac:SenderParty>
  <cac:ReceiverParty>
    <cbc:EndpointID schemeAgencyID="9" schemeID="GLN">7315458756328</cbc:EndpointID>
    <cac:PartyName>
      <cbc:Name>7315458756328</cbc:Name>
    </cac:PartyName>
    <cac:PartyLegalEntity>
      <cbc:CompanyID schemeID="ZZZ">7315458756328</cbc:CompanyID>
    </cac:PartyLegalEntity>
  </cac:ReceiverParty>
  <cac:DocumentResponse>
    <cac:Response>
      <cbc:ReferenceID>1</cbc:ReferenceID>
      <cbc:ResponseCode listAgencyID="320" listID=
"urn:oioubl:odelist:responsecode-1.1">TechnicalReject</cbc:ResponseCode>
      <cbc:Description/>
    </cac:Response>
    <cac:DocumentReference>
      <cbc:ID>EnvelopeID-12456789</cbc:ID>
```

```

    <cbc:DocumentTypeCode listAgencyID="320"
                          listID="urn:oioubl:odelist:respondedocumenttypecode-
1.2">Invoice</cbc:DocumentTypeCode>
  </cac:DocumentReference>
  <cac:LineResponse>
    <cac:LineReference>
      <cbc:LineID>/Invoice/cbc:InvoicedLine[1]/cbc:ID[1]</cbc:LineID>
    </cac:LineReference>
    <cac:Response>
      <cbc:ReferenceID>1</cbc:ReferenceID>
      <cbc:ResponseCode listAgencyID="320" listID=
"urn:oioubl:odelist:linerresponsecode-1.1">BusinessReject</cbc:ResponseCode>
      <cbc:Description>BR-21 - Each Invoice line (BG-25) shall have an Invoice
line identifier (BT-126).</cbc:Description>
      <cac:Status>
        <cbc:StatusReasonCode>BusinessReject</cbc:StatusReasonCode>
      </cac:Status>
    </cac:Response>
  </cac:LineResponse>
  <cac:LineResponse>
    <cac:LineReference>
      <cbc:LineID>
/Invoice/cbc:InvoicedLine[2]/cbc:InvoicedQuantity[1]</cbc:LineID>
    </cac:LineReference>
    <cac:Response>
      <cbc:ReferenceID>2</cbc:ReferenceID>
      <cbc:ResponseCode listAgencyID="320" listID=
"urn:oioubl:odelist:linerresponsecode-1.1">BusinessReject</cbc:ResponseCode>
      <cbc:Description>BR-22 - Each Invoice line (BG-25) shall have an Invoiced
quantity (BT-129).</cbc:Description>
      <cac:Status>
        <cbc:StatusReasonCode>BusinessReject</cbc:StatusReasonCode>
      </cac:Status>
    </cac:Response>
  </cac:LineResponse>
</cac:DocumentResponse>
</ApplicationResponse>

```

Referancer

Peppol Message Level Response

- <https://docs.peppol.eu/poacc/upgrade-3/syntax/MLR/tree/>

OIOUBL Application Response

- <https://oioubl.info/Classes/da/ApplicationResponse.html>