

Konvertering af Peppol MLR

Table of Contents

Indledning	2
Observeringer	2
LineResponse\Response>Status	2
Dokumenter status	2
Dokumenttyper	3
Mapning MLS til Application Response	4
OIOUBL Application Response validering	7
Eksempel filer	10
Message Level Response	10
Application Response	12
Referancer	14
Bibloktek opbygning	14

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 - Skulle ligge efter "Description" - Se link

<https://oioubl.info/Classes/da/ApplicationResponse.DocumentResponse.LineResponse.Response.html>

Dokumenter status

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

Der skal afklars om mapningen er korrekt

Table 1. Status koder

	MSL	AR	Forslag til fortolkning
Dokument hoved			
ResponseCode	Message acknowledgement	BusinessAccept	BusinessAccept
ResponseCode	Accepted	BusinessReject	BusinessAccept
ResponseCode	Rejected	ProfileAccept	BusinessReject
		ProfileReject	
		TechnicalAccept	
		TechnicalReject	
	MSL	AR	
Dokument linjer			
ResponseCode	Message acknowledgement	BusinessAccept	BusinessAccept
ResponseCode	Accepted	BusinessReject	BusinessAccept
ResponseCode	Rejected	ProfileAccept	BusinessReject
		ProfileReject	Bruges ikke i Peppol
		TechnicalAccept	Bruges ikke i Peppol

	MSL	AR	Forslag til fortolkning
		TechnicalReject	Bruges ikke i Peppol
StatusReasonCode	Business rule violation - fatal	Findes ikke i OIOUBL	BusinessReject
StatusReasonCode	Business rule violation - warning	Findes ikke i OIOUBL	BusinessAccept
StatusReasonCode	Syntax violation	Findes ikke i OIOUBL	BusinessReject

- Peppol ref: <https://docs.peppol.eu/poacc/upgrade-3/syntax/MLR/cac-DocumentResponse/cac-LineResponse/cac-Response/cac-Status/>
- OIOUBL ref: <https://oioubl.info/Classes/da/ApplicationResponse.DocumentResponse.html>

Dokumenttyper

En MLR kan referere til lange 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

Link

- MSL dokumenttyper: <https://docs.peppol.eu/poacc/upgrade-3/codelist/UNCL1001/>

Mapping MLS til Application Response

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

Ligledes er der under bemærkninger anført hvis feltet mengler 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		Findes ikke i OIOUBL Application Reponse med er gyldig i Schema hvorfor følgende konvertering sker - BV (Business rule violation, fatal) = BusinessReject - BW (Business rule violation, warning) = BusinessReject - 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

Første file er Peppol Message Level Response and efterfølgende file er resultatet som OIOUBL Application Response

Message Level Response

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 errore</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:DocumentResponse>
</cac:DocumentResponse>
</ApplicationResponse>
```

```

    </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

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:xs="http://www.w3.org/2001/XMLSchema">
  <cbc:UBLVersionID>2.1</cbc:UBLVersionID>
  <cbc:CustomizationID>OIOUBL-2.1</cbc:CustomizationID>
  <cbc:ProfileID schemeAgencyID="320" schemeID="urn:oioubl:id:profileid-1.3"
>Procurement-BilSim-1.0</cbc:ProfileID>
  <cbc:ID>MLR-ID123 EnvelopeID-12456789</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">BusinessReject</cbc:ResponseCode>
      <cbc:Description/>
    </cac:Response>
    <cac:DocumentReference>
      <cbc:ID>EnvelopeID-12456789</cbc:ID>
```

```

        <cbc:DocumentTypeCode listAgencyID="320"
            listID="urn:oioubl:codelist: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:codelist:lineresponsecode-1.1">BusinessAccept</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>1</cbc:ReferenceID>
                <cbc:ResponseCode listAgencyID="320" listID=
"urn:oioubl:codelist:lineresponsecode-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>

Bibloktek opbygning

Beskrivelse	Sti	Beskrivelse
Source	BIS3-Other\Konvertering\	Her ligger XSLT konverteringen
Dokumentation	MLR_2_OIOUBL_AppRes\Dokumentation	AsciiDoc dokumentation inkl. specifikationsfiler
Test filer	MLR_2_OIOUBL_AppRes\Test filer	Stribe af testfiler