

TCP/IP kommunikation förutsättning för XML meddelanden

Jämförelse

EDIFACT

- + Stabilt
- + Effektivt
- + Klara regler
- + Stor spridning
- + - Kräver kunskap att läsa och förstå.
- “Dyra” verktyg krävs
- Betraktas som ”gammal” teknik

XML

- + Lätt att läsa
- + Billiga eller gratis verktyg för små användare
- + Nytt och hett
- + - Kräver kunskap att förstå.
- Under utveckling
- Stort och komplext
- Liten spridning i vår bransch
- “Dyra” verktyg för större användare.

Ingen förbättrad funktionalitet

EDIFACT Global Invoice D03A en artikel

UNB+UNOC:3+09420000XXXXXXXXXX:30:FORS01+09420000560139700:30:001001+080131
:0623+100951'
UNH+292799+INVOIC:D:03A:UN:GMI012'
BGM+380+AB123456'
DTM+137:20080131:102'
GEI+PM+:272'
NAD+BY+2047::91++VOLVO LASTVAGNAR AB+VAT NO SE
556013970001+GÖTEBORG++405 08+SE'
RFF+VA:SE556013970001'
NAD+ST+1001::92++VOLVO LASTVAGNAR AB++GÖTEBORG++405 08+SE'
NAD+SE+1393::92++Finnveden Metal Structures AB+Box 9148+GÖTEBORG++400 93+SE'
RFF+VA:SE55XXXXXXXXXX'
NAD+PE+1393::92++Finnveden Metal Structures AB+Box 9148+GÖTEBORG++400 93+SE'
FII+BF+SE00000000000000000000000000000000:Finnveden Metal Structures AB+:::Banken'
CUX+2:SEK:4'
PYT+1++5+++90'
DTM+140:20080430:102'
LIN+1++1234567:IN'
IMD+++::SMALL PIECE USED ON TRUCKS'
QTY+47:1510:C62'
ALI+SE'
MOA+38:113627.50'
PRI+AAB:75.25:::1:C62'
RFF+AAK:254430'
DTM+171:20080131:102'
RFF+ON:402901393020'
TAX+7+VAT++++:25.00+S'
MOA+124:28406.88'
UNS+S'
MOA+77:142034.40::4'
MOA+79:113627.50::4'
MOA+125:113627.50::4'
MOA+176:28406.88::4'
MOA+136:0.00::4'
MOA+403:0.00::4'
TAX+7+VAT++++:25.00+S'
MOA+124:28406.88::4'
MOA+125:113627.50::4'
UNT+36+292799'
UNZ+1+100951'

JAIF Global Invoice XML 2.0 en artikel

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- edited with XMLSPY v5 rel. 4 U (http://www.xmlspy.com) by Class Class (Volvo Information Technology) -->
<prefix:ProcessInvoice xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:prefix="http://www.openapplications.org/oagis/9/jai" xmlns:oa="http://www.openapplications.org/oagis/9"
xmlns:udt="http://www.openapplications.org/oagis/9/unqualifieddatatypes/1.1" xmlns:oacl="http://www.openapplications.org/oagis/9/codelists"
xmlns:clm54217="http://www.openapplications.org/oagis/9/currencycode/54217:2001" xmlns:clm5639="http://www.openapplications.org/oagis/9/languagecode/5639:1988"
xmlns:clm1ANAMIMEMediaTypes="http://www.openapplications.org/oagis/9/IANAMIMEMediaTypes:2003" xmlns:clm66411="http://www.openapplications.org/oagis/9/unitcode/66411:2001"
xmlns:qdt="http://www.openapplications.org/oagis/9/qualifieddatatypes/1.1" releaseID="JAI-2007B" versionID="JAI003" systemEnvironmentCode="Production" languageCode="en">
  <prefix:ApplicationArea>
    <prefix:Sender>
      <oa:LogicalID schemeAgencyID="92">SenderID</oa:LogicalID>
      <oa:ComponentID schemeAgencyID="92">Address for reverse routing</oa:ComponentID>
      <prefix:InterchangeControlNumber/>
      <prefix:InterChangeDateTime>20071130T12:55:33</prefix:InterChangeDateTime>
      <prefix:GroupDateTime>20071130T12:55:33</prefix:GroupDateTime>
      <prefix:GroupControlNumber/>
      <prefix:ApplicationReference/>
    </prefix:Sender>
    <oa:BODID>09420000XXXXXXXXXX</oa:BODID>
    <prefix:Receiver>
      <oa:LogicalID schemeAgencyID="92">09420000560139700</oa:LogicalID>
      <oa:ComponentID schemeAgencyID="XXXXXXXXXX">ABC</oa:ComponentID>
    </prefix:Receiver>
  </prefix:ApplicationArea>
  <prefix:DataArea>
    <prefix:Process/>
    <prefix:Invoice>
      <InvoiceHeader>
        <oa:DocumentID>
          <oa:ID>AB123456</oa:ID>
          <oa:RevisionID>1.2</oa:RevisionID>
          <oa:VariationID>1</oa:VariationID>
        </oa:DocumentID>
        <oa:DocumentDateTime>2008-01-31T10:30</oa:DocumentDateTime>
        <oa:Description>AAI</oa:Description>
        <oa:Party role="ST">
          <oa:PartyIDs>
            <oa:ID schemeAgencyID="92">1001</oa:ID>
            <oa:TaxID schemeID="VA">SE556013970001</oa:TaxID>
          </oa:PartyIDs>
          <oa:Name languageID="en">VOLVO LASTVAGNAR AB</oa:Name>
          <oa:Location>
            <oa:Address>

```

JAIF Global Invoice XML 2.0 en artikel 2 sidan

```

</oa:Party>
<oa:Party role="SE">
  <oa:PartyIDs>
    <oa:ID schemeAgencyID="92">1393</oa:ID>
    <oa:TaxID schemeID="VA">SE55XXXXXXXXXX</oa:TaxID>
  </oa:PartyIDs>
  <oa:Name languageID="en">Finnveden Metal Structures AB</oa:Name>
  <oa:Location>
    <oa:Address>
      <oa:LineOne languageID="en">Box 9148</oa:LineOne>
      <oa:CityName languageID="en">GÖTEBORG</oa:CityName>
      <oa:CountryCode>SE</oa:CountryCode>
      <oa:PostalCode>400 93</oa:PostalCode>
    </oa:Address>
  </oa:Location>
</oa:Party>
<prefix:InvoiceTypeCode listID="1001" listAgencyID="6">380</prefix:InvoiceTypeCode>
<prefix:InvoiceDomain>PM</prefix:InvoiceDomain>
<oa:CurrencyExchangeRate>
  <oa:SourceCurrencyCode listID="4">SEK</oa:SourceCurrencyCode>
</oa:CurrencyExchangeRate>
<prefix:PaymentInstruction>
  <prefix:PaymentConditionsCode listAgencyID="6">1</prefix:PaymentConditionsCode>
  <prefix:PaymentMeansCode listAgencyID="6">1</prefix:PaymentMeansCode>
  <prefix:PaymentTerm>
    <oa:Note languageID="en">Instruction text</oa:Note>
    <oa:Term type="1">
      <oa:EffectiveDateTime>2008-01-31</oa:EffectiveDateTime>
      <oa:DueDateTime>2008-04-30</oa:DueDateTime>
    </oa:Term>
  <oa:FinancialParty category="BF">
    <oa:PartyIDs>
      <oa:ID schemeAgencyID="17">Banken</oa:ID>

```

JAIF Global Invoice XML 2.0 en artikel 3 sidan

```

</InvoiceHeader>
<InvoiceLine>
  <oa:PartyIDs>
    <oa:Name languageID="se">Banken</oa:Name>
    <oa:BranchParty>
      <oa:PartyIDs>
        <oa:BICID schemeID="25"
        schemeAgencyID="17">10020000</oa:BICID>
      </oa:PartyIDs>
    </oa:BranchParty>
    <oa:FinancialAccount>
      <oa:ID>SE00000000000000000000</oa:ID>
      <oa:Name languageID="en">Finnveden Metal
      Structures AB</oa:Name>
    </oa:FinancialAccount>
  </oa:PartyIDs>
  </prefix:PaymentTerm>
</prefix:PaymentInstruction>
  <oa:LineNumber>1</oa:LineNumber>
  <oa:Description languageID="en">AAR</oa:Description>
  <oa:DocumentReference type="AAU">
    <oa:DocumentID>
      <oa:ID>254430</oa:ID>
    </oa:DocumentID>
    <oa:DocumentDateTime>2008-01-31</oa:DocumentDateTime>
  </oa:DocumentReference>
  <oa:DocumentReference type="ON">
    <oa:DocumentID>
      <oa:ID>402901393020</oa:ID>
    </oa:DocumentID>
  </oa:DocumentReference>
  <oa:Item>
    <oa:ItemID>
      <oa:ID schemeID="IN">1234567</oa:ID>
    </oa:ItemID>
    <oa:Note languageID="en">SMALL PIECE USED ON TRUCKS</oa:Note>
  </oa:Item>
  <Quantity unitCode="C62" type="12">1510</Quantity>
  <oa:UnitPrice>
    <oa:Amount currencyID="SEK">75.25</oa:Amount>
  </oa:UnitPrice>
</InvoiceLine>

```

JAIF Global Invoice XML 2.0 en artikel 4 sidan

```

        <oa:PerQuantity unitCode="C61">1</oa:PerQuantity>
        <oa:Code listID="5125" listAgencyID="6">AAA</oa:Code>
    </oa:UnitPrice>
    <prefix:ItemGrossAmount currencyID="EUR">113627.50</prefix:ItemGrossAmount>
    <prefix:ItemNetAmount currencyID="EUR">113627.50</prefix:ItemNetAmount>
    <prefix:Tax type="VAT">
        <oa:Calculation>
            <oa:RateNumeric>25.00</oa:RateNumeric>
        </oa:Calculation>
        <oa:Amount currencyID="SEK">28406.88</oa:Amount>
        <prefix:TaxPaymentDueDateCode>1</prefix:TaxPaymentDueDateCode>
    </prefix:Tax>
    <prefix:PaymentTerm>
        <oa:Term type="1">
            <oa:EffectiveDateTime>2007-12-11</oa:EffectiveDateTime>
            <oa:DueDateTime>2008-01-31</oa:DueDateTime>
            <oa:DiscountPercent>2.00</oa:DiscountPercent>
            <oa:ProxMonth>01</oa:ProxMonth>
            <oa:ProxDayOfMonth>25</oa:ProxDayOfMonth>
        </oa:Term>
    </prefix:PaymentTerm>
</InvoiceSubLine>
    <Quantity unitCode="C62" type="47">20</Quantity>
    <prefix:DateTimePeriod type="50">
        <prefix:FixedDateTime>2007-11-22</prefix:FixedDateTime>
    </prefix:DateTimePeriod>
    <oa:DocumentReference type="AAA">
        <oa:DocumentID>
            <oa:ID>XXXXXXXXXXXX</oa:ID>
        </oa:DocumentID>
        <oa:DocumentDateTime>2002-07-01</oa:DocumentDateTime>
    </oa:DocumentReference>
    <SubLineAmount currencyID="EUR">125.00</SubLineAmount>
</InvoiceSubLine>
</InvoiceLine>
<InvoiceSummary>
    <oa:TotalAmount currencyID="SEK">142034.40</oa:TotalAmount>
    <oa:TotalValueAmount currencyID="EUR">113627.50</oa:TotalValueAmount>

```

JAIF Global Invoice XML 2.0 en artikel 5 sidan

```
<oa:TotalTaxableBaseAmount currencyID="AED">113627.50</oa:TotalTaxableBaseAmount>
  <oa:TotalTaxAmount currencyID="AED">28406.88</oa:TotalTaxAmount>
  <TotalTax type="AAA">
    <oa:BasisAmount currencyID="SEK">113627.50</oa:BasisAmount>
    <oa:Calculation>
      <oa:RateNumeric>25.00</oa:RateNumeric>
    </oa:Calculation>
    <oa:TaxAuthorityAmount currencyID="SEK">28406.88</oa:TaxAuthorityAmount>
    <oa:Amount currencyID="SEK">28406.88</oa:Amount>
    <prefix:TaxPaymentDueDateCode>1</prefix:TaxPaymentDueDateCode>
  </TotalTax>
</InvoiceSummary>
</prefix:Invoice>
</prefix:DataArea>
</prefix:ProcessInvoice>
```


Störst är inte alltid bäst

EDIFACT	1049 bytes
XML	7454 bytes
XML utan indrag	6666 bytes

Skillnad

XML 6 – 7 gånger större

Planerad TCP/IP kommunikation

- OFTP 1.x endast för “öppna” flöden används redan idag.
- OFTP 2.0 i stället för X.25 och ISDN
- FTP/s
- AS2
- Http/s
- EbXML

Tidplan för Volvo gruppen

- Säker TCP/IP kommunikation under 2008
- XML för leverans planer, aviseringar och faktura flöden ?
- XML för annat används redan i begränsad omfattning

Slutsats

Man måste inte kommunicera med TCP/IP
för att använda XML.

Men det kostar mer än vad det är värt