Electronic Business Documents

UBL v2.1

Tools and Techniques

UBL International 2014

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What standards are used?

- document expression
 - XML Extensible Markup Language
 - XML Namespaces vocabulary distinction

```
<Invoice xmlns="urn:oasis:names:specification:ubl:schema:xsd:Invoice-2"</p>
xmlns:cac="urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2"
xmlns:cbc="urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2">
<cbc:ID>ABC123</cbc:ID>
<cbc:IssueDate>2014-03-29</cbc:IssueDate>
<cac:AccountingSupplierParty>
  <cac:Party>
    <cac:PartyName>
      <dbc:Name>The Seller</dbc:Name>
    </cac:PartyName>
  </cac:Party>
</cac:AccountingSupplierParty>
<cac:AccountingCustomerParty>
  <cac:Party>
    <cac:PartyName>
      <cbc:Name>The Buyer</cbc:Name>
    </cac:PartyName>
  </cac:Party>
</cac:AccountingCustomerParty>
<cac:LegalMonetaryTotal>
  <cbc:PayableAmount_currencyID="EUR">200</cbc:PayableAmount>
```



What standards are used?

- document structure validation
 - XSD W3C XML Schema type representation
 - alternate: RELAX-NG grammar representation
 - alternate: ASN.1 binary representation
 - found in a Committee Note



What standards are used?

- document value validation
 - genericode code list expression in XML
 - Context/Value Association (CVA) code list application in XML
 - XSLT Extensible Stylesheet Language Transformations



What tools are used?

- document model expression
 - OpenOffice spreadsheet 66 files
 - Excel spreadsheet 66 files
 - UML diagrams 65 files
 - common library items found in a Committee Note
 - browser HTML hyperlinked model summary
 - 1 aggregate file incorporating all 65 document models

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- 65 individual models with pruned common library

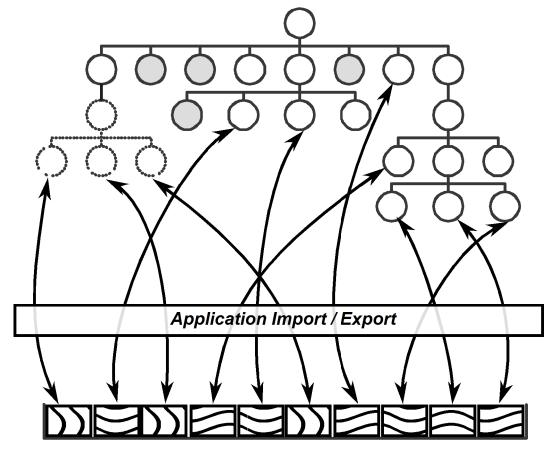


What steps to take to use UBL?

- the community of users (from only two trading partners to a large supplier environment) establishes information that needs to be conveyed
- subset UBL to include what is available
- extend UBL to add what is not available
 - extensions can be constrained by schemas within the community while being innocuous to others
 - the committee has started creating standard extensions applicable to all documents: first is the digital signature extension (works also with 2.0)
- create your own documents using UBL library

Technique 1 – Adapting to UBL

UBL XML tree structures



Application data structures

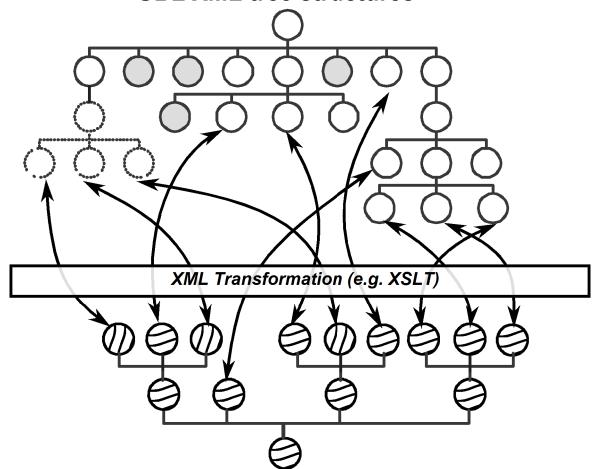
Legend

- Customization extension to UBL
- O UBL item found in application tree
- UBL item not found in application tree
- Application data item found in UBL
- Application data item not found in UBL

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Technique 2 – Adapting to UBL

UBL XML tree structures



Application XML tree structures

Legend

- Customization extension to UBL
- UBL item found in application tree
- O UBL item not found in application tree
- Application tree item found in UBL
- Application tree item not found in UBL