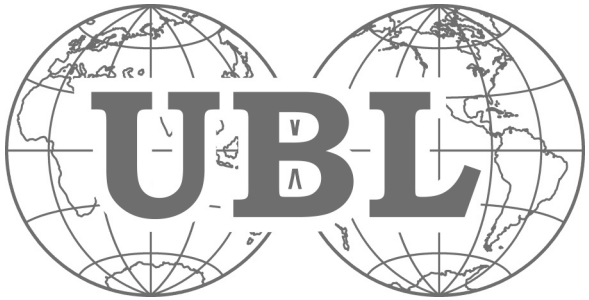


UBL 2.0 Invoice Insights

ALLIANCE MEMBER

UBL 2.0 :: eInvoicing / eBilling

- UBL Invoice 2.0
- UBL Credit Note 2.0
- UBL Debit Note 2.0
- UBL Self Billed Invoice 2.0
- UBL Self Billed CreditNote 2.0
- UBL Freight Invoice 2.0
- UBL Customs Invoice 2.1
- ...

UBL 2.0 :: Information Items, Values & Interoperability

Paper

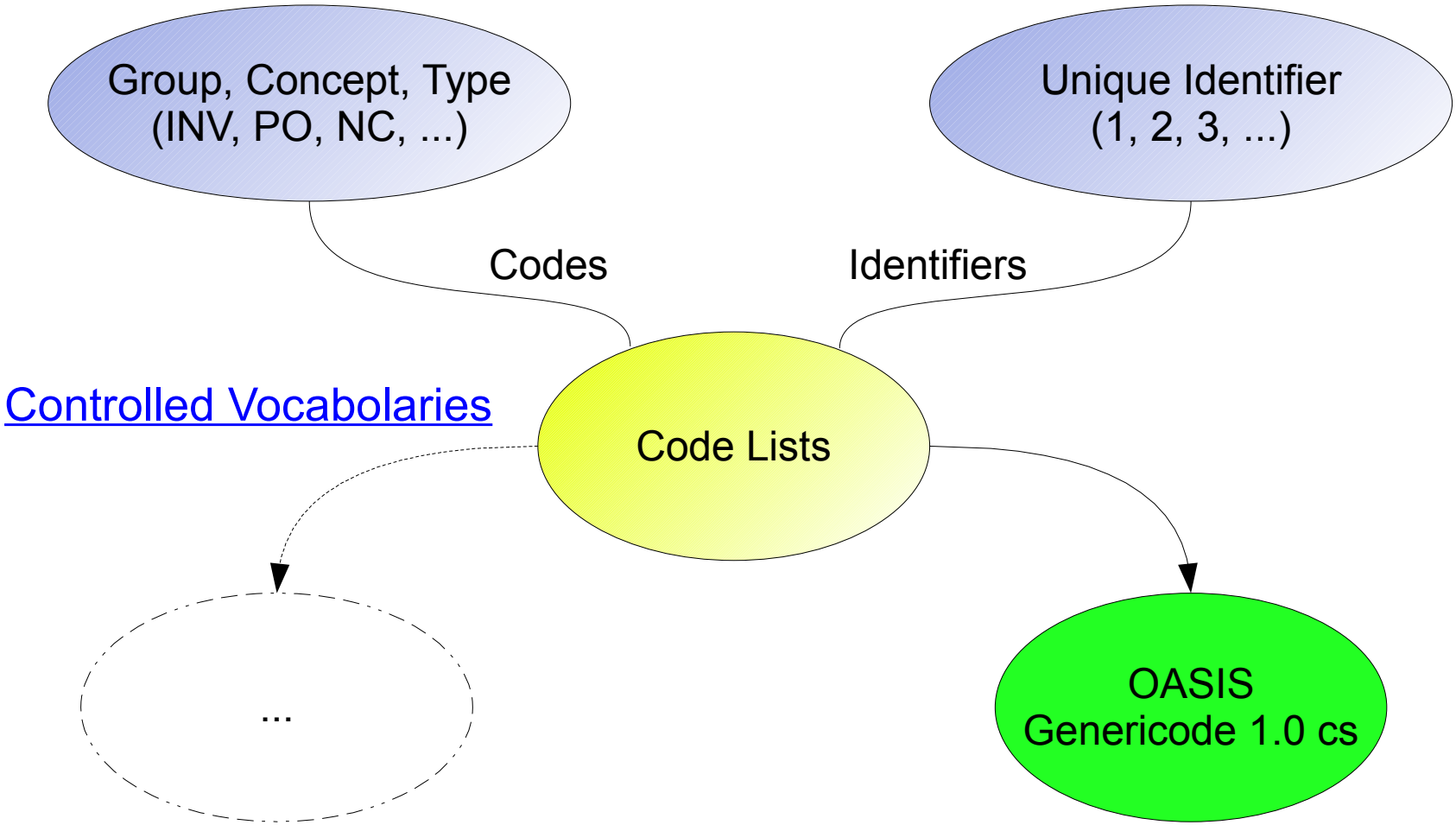
- Should be readable (*textual*)
- ✗ Needs to be interpreted
- Could be required
- ✗ Is always different
- ✗ Must be re-keyed
- ✗ Needs “late” manual validation
- ✗ Not interoperable

Electronic & Structured

- ✓ Should be coded (*codelist, identifiers*) — Genericode
- ✓ Can be decoded and internationalized — UBL IDD
- ✓ Can be constrained
- ✓ Can be standardized
- ✓ Can be re-used — UBL ABIE
- ✓ Allows “early” automatic validation
- ✓ Allows interoperability

Copyright (c) 2008, JAVEST

UBL 2.0 :: What's a Code List ?



Copyright (c) 2008, JAVEST

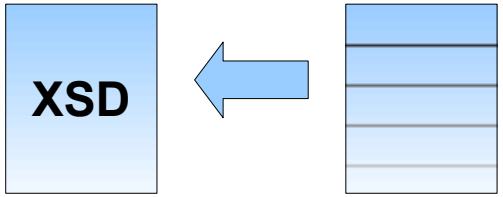
Issued by

- Public Authorities
- International Organizations
- Agreed between trading partners

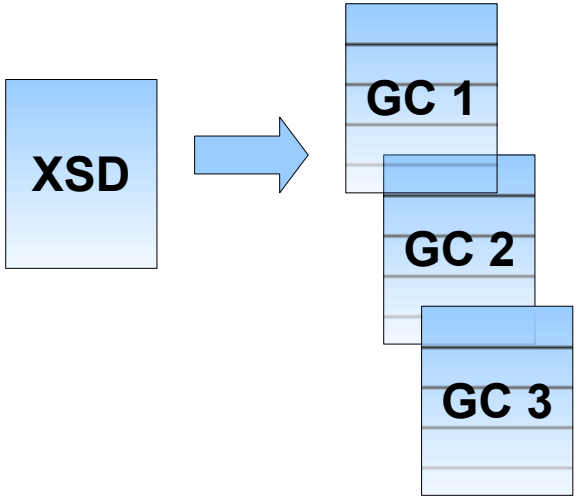
Copyright (c) 2008, JAVEST

UBL 2.0 :: How List of Values are controlled

- with enumerations
  - Inside XML Schema (XSD)



- without enumerations
  - Values expressed with Code Lists
  - Values expressed with Identifiers



Metadata for a Code List

```
<xsd:complexType name="CodeType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      ...
    </xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="xsd:normalizedString">
      <xsd:attribute name="listID" type="xsd:normalizedString" use="optional"/>
      <xsd:attribute name="listAgencyID" type="xsd:normalizedString" use="optional"/>
      <xsd:attribute name="listAgencyName" type="xsd:string" use="optional"/>
      <xsd:attribute name="listName" type="xsd:string" use="optional"/>
      <xsd:attribute name="listVersionID" type="xsd:normalizedString" use="optional"/>
      <xsd:attribute name="name" type="xsd:string" use="optional"/>
      <xsd:attribute name="languageID" type="xsd:language" use="optional"/>
      <xsd:attribute name="listURI" type="xsd:anyURI" use="optional"/>
      <xsd:attribute name="listSchemeURI" type="xsd:anyURI" use="optional"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Copyright (c) 2008, JAVEST

Metadata for a Code List

```
<xsd:complexType name="CodeType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      ...
    </xsd:documentation>
  </xsd:annotation>
  <cac:Country>
    <cbc:IdentificationCode
          listID="ISO3166-1"
          listAgencyID="6"
          listAgencyName="United Nations Economic Commission for Europe"
          listName="Country"
          listVersionID="0.3"
          languageID="en"
          listURI=
                "http://docs.oasis-open.org/ubl/os-ubl-2.0/cl/gc/default/CountryIdentificationCode-2.0.gc"
          listSchemeURI=
                "urn:oasis:names:specification:ubl:codelist:gc:CountryIdentificationCode-2.0"
    >IT</cbc:IdentificationCode>
  </cac:Country>
```

Copyright (c) 2008, JAVEST

Metadata for an Identifier

```
<xsd:complexType name="IdentifierType">
 <xsd:annotation>
   <xsd:documentation xml:lang="en">
     ...
   </xsd:documentation>
 </xsd:annotation>
 <xsd:simpleContent>
   <xsd:extension base="xsd:normalizedString">
     <xsd:attribute name="schemeID" type="xsd:normalizedString" use="optional"/>
     <xsd:attribute name="schemeName" type="xsd:string" use="optional"/>
     <xsd:attribute name="schemeAgencyID" type="xsd:normalizedString" use="optional"/>
     <xsd:attribute name="schemeAgencyName" type="xsd:string" use="optional"/>
     <xsd:attribute name="schemeVersionID" type="xsd:normalizedString" use="optional"/>
     <xsd:attribute name="schemeDataURI" type="xsd:anyURI" use="optional"/>
     <xsd:attribute name="schemeURI" type="xsd:anyURI" use="optional"/>
   </xsd:extension>
 </xsd:simpleContent>
</xsd:complexType>
```

Copyright (c) 2008, JAVEST

UBL 2.0 :: Code Lists

Codifiche (*Vocabolari Controllati*)
Code Lists (Controlled Vocabularies)

Account Type Code (Financial Account Type)		
Accounting Cost Code		
Address Format Code	UN/ECE 3477 (D06B)	
Allowance Charge Reason Code	UN/ECE 4465 (D06B)	
Card Chip Code	OASIS (UBL 2.0) (chip, magnetic stripe)	UBL
Card Type Code (Debit Card, Credit Card, ...)	UBL 2.0	UBL
Commodity Code (Harmonized Code – Customs & Trade Statistics) Tariffa Doganale	Combined Nomenclature (NC)	
Communication Channel Code	UN/ECE 3155	
Country Identification Code	ISO 3166-1 (0.3)	
Country Subentity Code	ISO 3166-2 (3166-2:IT provincie & regioni)	
Currency Code	ISO 4217 Alpha (2001)	
Delivery Terms (es. Incoterms) Porto Franco ?	Incoterms 2000	
Exemption Reason Code	CWA 15577 (2006)	
Hazardous Item	UNDG Code	

Copyright (c) 2008, JAVEST

UBL 2.0 :: Code Lists

Codifiche (*Vocabolari Controllati*)
Code Lists (Controlled Vocabularies)

Hazardous Item	UNDG Code	
Invoice Type Code	UN/CEFACT 1001 Subset “Document Name Code” (D06B)	
Item Classification Code (trade commodity classification)	UN/SPSC Code	
Payment Channel Code	NES Payment Channel (2.0)	
Payment Means Code	UN/ECE 4461 (D06B)	
Payment Terms - Reference Event Code		
Price Type Code (retail, wholesale, discount, contract)		
Tax Level Code		
Tax Type Code (Consumptions, Sales, ...)	UN/ECE 5305 Duty or Tax or Fee category code	
Unit Code	UN/ECE rec 20 (rev. 4)	

Copyright (c) 2008, JAVEST

UBL 2.0 :: Unique Identifiers

Identificatori univoci

ID	Invoice uses a Sequential Unique Identifier
Company ID	Coded Unique Identifier
Tax Scheme	VAT, GST
Card Account - Primary Account Number ID (PAN) 4558 XXXX XXXX XXXX	
Network ID (Card Network Provider: VISA, MasterCard, AmericanExpress)	
Financial Account ID	(Bank Account Number) - SWIFT(BIC) and IBAN are defined in ISO 9362 and ISO 13616.
Financial Institution ID	ISO 9362 BIC (Bank Identification Code)
Tax Category (NotTaxable, IVA, Non Imponibile)	ODDC10 VAT Category / UN/ECE 5305 – Duty/tax/fee category
Product Trace ID	(EPC number used in RFID)
Serial ID (S/N)	
Registration ID (car registration or licensing number)	

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice

- supplies of services
- supplies of goods

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: UBLVersionID

Identificativo Versione UBL

UBL Version ID

Identifica la versione corrente del documento.

The earliest version of the UBL 2 schema for this document type that defines all of the elements that might be encountered in the current instance.

```
<cbc:UBLVersionID>2.0</cbc:UBLVersionID>
```

```
<cbc:ProfileID>Javest-UBL-2.0-Invoice-Services-Sample</cbc:ProfileID>
<cbc:ID>4872</cbc:ID>
<cbc:IssueDate>2008-02-11+02:00</cbc:IssueDate>
<cbc:InvoiceTypeCode languageID="en" listAgencyID="6" listID="UN/ECE 1001" listVersionID="D06B">380</
 cbc:InvoiceTypeCode>
<cbc:Note languageID="IT">Per ogni controversia è competente il Foro di La Spezia</cbc:Note>
<cbc:Note languageID="IT">ESENTE DA BOLLO ART.15 TAB B. LEGGE 642 DEL 26.10.72</cbc:Note>
<cbc:TaxPointDate>2008-02-11+02:00</cbc:TaxPointDate>
<cbc:LineCountNumeric>3</cbc:LineCountNumeric>
 ...
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: ProfileID

Identificativo Profilo

Profile ID

Identifica il profilo utente della personalizzazione di UBL usata.

Identifies a user-defined profile of the customization of UBL being used.

<cbc:UBLVersionID>2.0</cbc:UBLVersionID>

<cbc:ProfileID>
Javest-UBL-2.0-Invoice-Services-Sample
</cbc:ProfileID>

<cbc:ID>**4872**</cbc:ID>
<cbc:IssueDate>**2008-02-11+02:00**</cbc:IssueDate>
<cbc:InvoiceTypeCode *languageID*="en" *listAgencyID*="6" *listID*="UN/ECE 1001" *listVersionID*="D06B">**380**</cbc:InvoiceTypeCode>
<cbc:Note languageID="IT">**Per ogni controversia è competente il Foro di La Spezia**</cbc:Note>
<cbc:Note languageID="IT">ESENTE DA BOLLO ART.15 TAB B. LEGGE 642 DEL 26.10.72</cbc:Note>
<cbc:TaxPointDate>**2008-02-11+02:00**</cbc:TaxPointDate>
<cbc:LineCountNumeric>**3**</cbc:LineCountNumeric>

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: ID

Numero Fattura
Invoice Number

Un identificatore per la Fattura assegnato dal Creditore.

An identifier for the Invoice assigned by the Creditor.


```
<cbc:UBLVersionID>2.0</cbc:UBLVersionID>
<cbc:ProfileID>Javest-UBL-2.0-Invoice-Services-Sample</cbc:ProfileID>
```

```
<cbc:ID>4872</cbc:ID>
```



```
<cbc:IssueDate>2008-02-11+02:00</cbc:IssueDate>
<cbc:InvoiceTypeCode languageID="en" listAgencyID="6" listID="UN/ECE 1001" listVersionID="D06B">380</
 cbc:InvoiceTypeCode>

<cbc:Note languageID="IT">Per ogni controversia è competente il Foro di La Spezia</cbc:Note>
<cbc:Note languageID="IT">ESENTE DA BOLLO ART.15 TAB B. LEGGE 642 DEL 26.10.72</cbc:Note>
<cbc:TaxPointDate>2008-02-11+02:00</cbc:TaxPointDate>
<cbc:LineCountNumeric>3</cbc:LineCountNumeric>
```


Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: IssueDate

Data Emissione Fattura
Invoice Issue Date

Data di emissione Fattura assegnata dal Creditore.

The date assigned by the Creditor on which the Invoice was issued.

No need to agree a date format !

Coordinated Universal Time (UTC)

ISO 8601:
Representations of dates and times

XML Schema Part 2:
Datatypes Second Edition
(W3C Recommendation 28 Oct 2004)

```
<cbc:UBLVersionID>2.0</cbc:UBLVersionID>
<cbc:ProfileID>Javest-UBL-2.0-Invoice-Services-Sample</cbc:ProfileID>
<cbc:ID>4872</cbc:ID>
```

```
<cbc:IssueDate>2008-02-11+02:00</cbc:IssueDate>
```

```
<cbc:InvoiceTypeCode languageID="en" listAgencyID="6" listID="UN/ECE 1001"
 listVersionID="D06B">380</cbc:InvoiceTypeCode>
<cbc:Note languageID="IT">Per ogni controversia è competente il Foro di La Spezia</cbc:Note>
<cbc:Note languageID="IT">ESENTE DA BOLLO ART.15 TAB B. LEGGE 642 DEL 26.10.72</cbc:Note>
<cbc:TaxPointDate>2008-02-11+02:00</cbc:TaxPointDate>
<cbc:LineCountNumeric>3</cbc:LineCountNumeric>
....
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: InvoiceTypeCode

Codice Tipo Fattura

Invoice Type Code

Identifica il tipo di Fattura con un codice.

Code specifying the type of the Invoice.

```
<cbc:UBLVersionID>2.0</cbc:UBLVersionID>
<cbc:ProfileID>Javest-UBL-2.0-Invoice-Services-Sample</cbc:ProfileID>
<cbc:ID>4872</cbc:ID>
<cbc:IssueDate>2008-02-11+02:00</cbc:IssueDate>
```

```
<cbc:InvoiceTypeCode
        languageID="en"
        listAgencyID="6"
        listID="UN/ECE 1001"
        listVersionID="D06B">380</cbc:InvoiceTypeCode>
```

```
<cbc:Note languageID="IT">Per ogni controversia è competente il Foro di La Spezia</cbc:Note>
<cbc:Note languageID="IT">ESENTE DA BOLLO ART.15 TAB B. LEGGE 642 DEL 26.10.72</cbc:Note>
<cbc:TaxPointDate>2008-02-11+02:00</cbc:TaxPointDate>
<cbc:LineCountNumeric>3</cbc:LineCountNumeric>
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: Note

Nota
Note

[UBL ITLSC]:
A separated Legal Note is desired

Testo libero relativo alla Fattura. Può contenere note o altre informazioni non esplicitamente previste nella struttura del documento.

Free-form text applying to the Invoice. This element may contain notes or any other similar information that is not contained explicitly in another structure.

<cbc:UBLVersionID>2.0</cbc:UBLVersionID>
<cbc:ProfileID>**Javest-UBL-2.0-Invoice-Services-Sample**</c
<cbc:ID>**4872**</cbc:ID>
<cbc:IssueDate>**2008-02-11+02:00**</cbc:IssueDate>
<cbc:InvoiceTypeCode *languageID*="en" *listAgencyID*="6" *listID*="UN/ECE 1001"
listVersionID="D06B">**380**</cbc:InvoiceTypeCode>

<cbc:Note languageID="IT">
Per ogni controversia è competente il Foro di La Spezia
</cbc:Note>

<cbc:Note languageID="IT">ESENTE DA BOLLO ART.15 TAB B. LEGGE 642 DEL 26.10.72</cbc:Note>
<cbc:TaxPointDate>**2008-02-11+02:00**</cbc:TaxPointDate>
<cbc:LineCountNumeric>3</cbc:LineCountNumeric>

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: TaxPointDate

Data Scadenza Imposta

Tax Point Date

La data in cui l'imposta è dovuta

The date on which tax becomes due

```
<cbc:UBLVersionID>2.0</cbc:UBLVersionID>
<cbc:ProfileID>Javest-UBL-2.0-Invoice-Services-Sample</cbc:ProfileID>
<cbc:ID>4872</cbc:ID>
<cbc:IssueDate>2008-02-11+02:00</cbc:IssueDate>
<cbc:InvoiceTypeCode languageID="en" listAgencyID="6" listID="UN/ECE 1001"
   istVersionID="D06B">380</cbc:InvoiceTypeCode>
<cbc:Note languageID="IT">Per ogni controversia è competente il Foro di La Spezia</cbc:Note>
<cbc:Note languageID="IT">ESENTE DA BOLLO ART.15 TAB B. LEGGE 642 DEL 26.10.72</cbc:Note>

   <cbc:TaxPointDate>2008-02-11+02:00</cbc:TaxPointDate>

<cbc:LineCountNumeric>3</cbc:LineCountNumeric>
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: AccountingSupplierParty

Parte Fornitrice “Contabile”

Accounting Supplier Party

```
<cac:AccountingSupplierParty>
  <cac:Party>
    <cbc:WebsiteURI>http://www.rattilaghezza.it</cbc:WebsiteURI>
    <cac:PartyName>
      <cbc:Name>Ratti &amp; Laghezza S.r.l.</cbc:Name>
    </cac:PartyName>
```

PostalAddress	Indirizzo Postale
PartyTaxScheme	Regime Fiscale
PartyLegalEntity	Sede Legale

```
    <cac:Contact>
      <cbc:Name>SEDE LEGALE, AMMINISTRATIVA E OPERATIVA</cbc:Name>
      <cbc:Telephone>0187 5971</cbc:Telephone>
      <cbc:Telefax>0187 513066</cbc:Telefax>
      <cbc:ElectronicMail>r&amp;l@rattilaghezza.it</cbc:ElectronicMail>
    </cac:Contact>
  </cac:Party>
</cac:AccountingSupplierParty>
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: AccountingSupplierParty

Parte Fornitrice “Contabile”

Accounting Supplier Party

```
<cac:AccountingSupplierParty>
  <cac:Party>
    <cbc:WebsiteURI>http://www.rattilaghezza.it</cbc:WebsiteURI>
    <cac:PartyName>
      <cbc:Name>Ratti &amp; Laghezza S.r.l.</cbc:Name>
    </cac:PartyName>
```

PostalAddress

Indirizzo Postale

```
<cac:PostalAddress>
  <cbc:StreetName>Viale S.Bartolomeo</cbc:StreetName>
  <cbc:BuildingNumber>103</cbc:BuildingNumber>
  <cbc:CityName>La Spezia</cbc:CityName>
  <cbc:PostalZone>19126</cbc:PostalZone>
  <cac:Country>
    <cbc:IdentificationCode
        languageID="en"
        listAgencyID="6"
        listAgencyName="United Nations Economic Commission for Europe"
        listID="ISO3166-1"
        listName="Country"
        listSchemeURI=
            "urn:oasis:names:specification:ubl:codelist:gc:CountryIdentificationCode-2.0"
        listURI=
            "http://docs.oasis-open.org/ubl/os-ubl-2.0/cl/gc/default/CountryIdentificationCode-2.0.gc"
        listVersionID="0.3">IT</cbc:IdentificationCode>
  </cac:Country>
</cac:PostalAddress>
```

UBL 2.0 Invoice :: AccountingSupplierParty

Parte Fornitrice “Contabile”

Accounting Supplier Party

```
<cac:AccountingSupplierParty>
  <cac:Party>
    <cbc:WebsiteURI>http://www.rattilaghezza.it</cbc:WebsiteURI>
    <cac:PartyName>
      <cbc:Name>Ratti &amp; Laghezza S.r.l.</cbc:Name>
    </cac:PartyName>
```

PostalAddress — Indirizzo Postale

PartyTaxScheme — Regime Fiscale

```
<cac:PartyTaxScheme>
  <cbc:RegistrationName>Ratti &amp; Laghezza S.r.l.</cbc:RegistrationName>
  <cbc:CompanyID
schemeAgencyName="Agenzia delle Entrate"
schemeID="PIVA"
schemeName="Partita IVA">IT00852040112</cbc:CompanyID>
  <cac:TaxScheme>
    <cbc:ID>1</cbc:ID>
    <cbc:Name languageID=”IT”>IVA</cbc:Name>
    <cbc:TaxTypeCode
        listID=”UN/ECE 5153”
        listAgencyID=”6”
        listVersionID=”D07A”>VAT</cbc:TaxTypeCode>
  </cac:TaxScheme>
</cac:PartyTaxScheme>
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: AccountingSupplierParty

Parte Fornitrice “Contabile”
Accounting Supplier Party

```
<cac:AccountingSupplierParty>
  <cac:Party>
    <cbc:WebsiteURI>http://www.rattilaghezza.it</cbc:WebsiteURI>
    <cac:PartyName>
      <cbc:Name>Ratti &amp; Laghezza S.r.l.</cbc:Name>
    </cac:PartyName>
```

PostalAddress	Indirizzo Postale
PartyTaxScheme	Regime Fiscale
PartyLegalEntity	Sede Legale (*Ragione Sociale, Registro Imprese*)

```
    <cac:PartyLegalEntity>
      <cbc:RegistrationName>Ratti &amp; Laghezza S.r.l.</cbc:RegistrationName>
      <cbc:CompanyID>78970</cbc:CompanyID>
      <cac:CorporateRegistrationScheme>
        <cbc:ID
            schemeAgencyID="CCIAA"
            schemeAgencyName="Camera di Commercio Industria Artigianato e Agricoltura"
        >RI</cbc:ID>
        <cbc:Name>Registro Imprese di La Spezia</cbc:Name>
        <cac:JurisdictionRegionAddress>
          <cbc:CityName>La Spezia</cbc:CityName>
          <cbc:CountrySubentityCode>SP</cbc:CountrySubentityCode>
        </cac:JurisdictionRegionAddress>
      </cac:CorporateRegistrationScheme>
    </cac:PartyLegalEntity>
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: AccountingSupplierParty

Parte Fornitrice “Contabile”

Accounting Supplier Party

```
<cac:AccountingSupplierParty>
  <cac:Party>
    <cbc:WebsiteURI>http://www.rattilaghezza.it</cbc:WebsiteURI>
    <cac:PartyName>
      <cbc:Name>Ratti &amp; Laghezza S.r.l.</cbc:Name>
    </cac:PartyName>
```

PostalAddress	Indirizzo Postale
PartyTaxScheme	Regime Fiscale
PartyLegalEntity	Sede Legale

```
    <cac:PartyLegalEntity>
      <cbc:RegistrationName>Ratti &amp; Laghezza S.r.l.</cbc:RegistrationName>
      <cbc:CompanyID>8949</cbc:CompanyID>
      <cac:CorporateRegistrationScheme>
        <cbc:Name>Tribunale</cbc:Name>
        <cac:JurisdictionRegionAddress>
          <cbc:CityName>La Spezia</cbc:CityName>
          <cbc:CountrySubentityCode>SP</cbc:CountrySubentityCode>
        </cac:JurisdictionRegionAddress>
      </cac:CorporateRegistrationScheme>
    </cac:PartyLegalEntity>
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: AccountingSupplierParty

Parte Fornitrice “Contabile”

Accounting Supplier Party

```
<cac:AccountingSupplierParty>
  <cac:Party>
    <cbc:WebsiteURI>http://www.rattilaghezza.it</cbc:WebsiteURI>
    <cac:PartyName>
      <cbc:Name>Ratti &amp; Laghezza S.r.l.</cbc:Name>
    </cac:PartyName>
```

PostalAddress	Indirizzo Postale
PartyTaxScheme	Regime Fiscale
PartyLegalEntity	Sede Legale

```
    <cac:Contact>
      <cbc:Name>SEDE LEGALE, AMMINISTRATIVA E OPERAT</cbc:Name>
      <cbc:Telephone>0187 5971</cbc:Telephone>
      <cbc:Telefax>0187 513066</cbc:Telefax>
      <cbc:ElectronicMail>r&amp;l@rattilaghezza.it</cbc:ElectronicMail>
    </cac:Contact>
  </cac:Party>
</cac:AccountingSupplierParty>
```

[UBL ITLSC]:
To be added Equities and Liquidation Status.

TIP: *Notes can be used in the meantime...*

Copyright (c) 2008, JAVEST

Parte Cliente “Contabile”
Accounting Customer Party

```
<cac:AccountingCustomerParty>
  <cbc:SupplierAssignedAccountID>C02590</cbc:SupplierAssignedAccountID>
  <cac:Party>
    <cac:PartyName>
      <cbc:Name>SPECTRA S.p.A.</cbc:Name>
    </cac:PartyName>
    <cac:PostalAddress>
      <cbc:StreetName>Viale Spaghetti</cbc:StreetName>
      <cbc:BuildingNumber>1</cbc:BuildingNumber>
      <cbc:CityName>Milano</cbc:CityName>
      <cbc:PostalZone>20001</cbc:PostalZone>
      <cac:Country>
        <cbc:IdentificationCode>IT</cbc:IdentificationCode>
      </cac:Country>
    </cac:PostalAddress>
    <cac:PartyTaxScheme>
      <cbc:RegistrationName>SPECTRA S.p.A.</cbc:RegistrationName>
      <cbc:CompanyID schemeAgencyName="Agenzia delle Entrate" schemeID="PIVA"
 schemeName="Partita IVA">IT00987654321</cbc:CompanyID>
      <cac:TaxScheme>
        <cbc:ID>1</cbc:ID>
        <cbc:Name languageID=”IT”>IVA</cbc:Name>
        <cbc:TaxTypeCode listID=”UN/ECE 5153” listAgencyID=”6”
 listVersionID=”D07A”>VAT</cbc:TaxTypeCode>
      </cac:TaxScheme>
    </cac:PartyTaxScheme>
  </cac:Party>
</cac:AccountingCustomerParty>
```

Copyright (c) 2008, JAVEST

```
<cac:PaymentMeans>
  <cbc:ID>1</cbc:ID>

  <cbc:PaymentMeansCode
      listAgencyID ="6"
      listID       ="UN/ECE 4461"
      listVersionID ="D03A">30</cbc:PaymentMeansCode>

</cac:PaymentMeans>

<cac:PaymentTerms>
  <cbc:PaymentMeansID>1</cbc:PaymentMeansID>

  <cac:SettlementPeriod>
    <cbc:StartDate>2008-02-29+02:00</cbc:StartDate>
    <cbc:DurationMeasure unitCode="DAY">90</cbc:DurationMeasure>
    <cbc:DescriptionCode>RD90GGFM</cbc:DescriptionCode>
    <cbc:Description>RIMESSA DIRETTA 90GG F.M.</cbc:Description>
  </cac:SettlementPeriod>

</cac:PaymentTerms>
```

Payment Terms should be standardized at national or european level to facilitate ePayments.

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: TaxTotal

Totale Imposte
Tax Total

```
<cac:TaxTotal>
  <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
```

TaxSubtotal #1 — SubTotale Imposte

```
</cac:TaxTotal>
```

```
<cac:TaxSubtotal>
  <cbc:TaxableAmount currencyID="EUR">20.5</cbc:Taxab
  <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
  <cbc:Percent>0</cbc:Percent>
  <cac:TaxCategory>
    <cbc:ID schemeID="UN/ECE 5305" schemeAgencyID="6"
  schemeVersionID="D07A">E</cbc:ID>
    <cbc:Percent>0</cbc:Percent>
   <cbc:TaxExemptionReasonCode>91</cbc:TaxExemptionReasonCode>
   <cbc:TaxExemptionReason>NON IMPON. ART. 9 I C.</cbc:TaxExemptionReason>
    <cac:TaxScheme>
      <cbc:ID>1</cbc:ID>
      <cbc:Name languageID="IT">IVA</cbc:Name>
      <cbc:TaxTypeCode listID="UN/ECE 5153" listAgencyID="6"
  listVersionID="D07A">VAT</cbc:TaxTypeCode>
    </cac:TaxScheme>
  </cac:TaxCategory>
</cac:TaxSubtotal>
```

UN/ECE 5305
Duty/tax/fee category

sample:
E = Exempt from tax

UN/ECE 5153
Duty or tax or fee
type name code
(VAT, GST, CAR, ...)

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: TaxTotal

Totale Imposte
Tax Total

```
<cac:TaxTotal>
  <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
```

TaxSubtotal #2 — SubTotale Imposte

```
</cac:TaxTotal>
```

```
<cac:TaxSubtotal>
  <cbc:TaxableAmount currencyID="EUR">11.58</cbc:TaxableAmount>
  <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
  <cbc:Percent>0</cbc:Percent>
  <cac:TaxCategory>
    <cbc:ID schemeID="UN/ECE 5305" schemeAgencyID="6"
   schemeVersionID="D07A">O</cbc:ID>
    <cbc:Percent>0</cbc:Percent>
    <cbc:TaxExemptionReasonCode>15</cbc:TaxExemptionReasonCode>
    <cbc:TaxExemptionReason>ART.15 F. CAMPO APPL. IVA</cbc:TaxExemptionReason>
    <cac:TaxScheme>
      <cbc:ID>1</cbc:ID>
      <cbc:Name languageID="IT">IVA</cbc:Name>
      <cbc:TaxTypeCode listID="UN/ECE 5153" listAgencyID="6"
   listVersionID="D07A">VAT</cbc:TaxTypeCode>
    </cac:TaxScheme>
  </cac:TaxCategory>
</cac:TaxSubtotal>
```

UN/ECE 5305
Duty/tax/fee category

sample:
O = Outside scope of tax

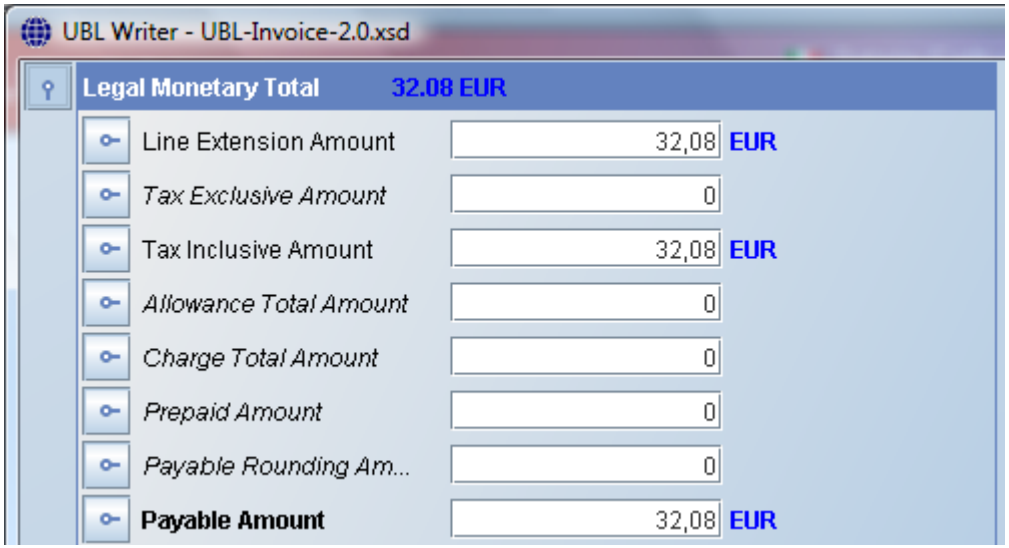
Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: LegalMonetaryTotal

Totale Fattura

Legal Monetary Total

```
<cac:LegalMonetaryTotal>
  <cbc:LineExtensionAmount currencyID="EUR">32.08</cbc:LineExtensionAmount>
  <cbc:TaxInclusiveAmount currencyID="EUR">32.08</cbc:TaxInclusiveAmount>
  <cbc:PayableAmount currencyID="EUR">32.08</cbc:PayableAmount>
</cac:LegalMonetaryTotal>
```



UBL 2.0 Invoice :: InvoiceLine #1

Riga Fattura
Invoice Line

supplies of services sample

```
<cac:InvoiceLine>
  <cbc:ID>E01</cbc:ID>
  <cbc:InvoicedQuantity>1</cbc:InvoicedQuantity>
  <cbc:LineExtensionAmount currencyID="EUR">11.58</cbc:LineExtensionAmount>
  <cac:TaxTotal>
    <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
    <cac:TaxSubtotal>
      <cbc:TaxableAmount currencyID="EUR">11.58</cbc:TaxableAmount>
      <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
      <cbc:Percent>0</cbc:Percent>
      <cac:TaxCategory>
        <cbc:ID schemeID="UN/ECE 5305" schemeAgencyID="6"
 schemeVersionID="D07A">O</cbc:ID>
        <cbc:TaxExemptionReasonCode>15</cbc:TaxExemptionReasonCode>
        <cbc:TaxExemptionReason>ART.15 7. CAMPO APPL. IVA</cbc:TaxExemptionReason>
        <cac:TaxScheme>
          <cbc:ID>1</cbc:ID>
        </cac:TaxScheme>
      </cac:TaxCategory>
    </cac:TaxSubtotal>
  </cac:TaxTotal>
  <cac:Item>
    <cbc:Description languageID="IT">Diritti Doganali come da bolletta/e</cbc:Description>
  </cac:Item>
</cac:InvoiceLine>
```

Internal reference:
see @ page 29

Item aggregate can be re-used by selecting the ordered items on the UBL 2.0 Order.

Copyright (c) 2008, JAVEST

supplies of services sample

```
<cac:InvoiceLine>
  <cbc:ID>EF1</cbc:ID>
  <cbc:LineExtensionAmount currencyID="EUR">18</cbc:LineExtensionAmount>
  <cac:TaxTotal>
    <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
    <cac:TaxSubtotal>
      <cbc:TaxableAmount currencyID="EUR">18</cbc:TaxableAmount>
      <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
      <cbc:Percent>0</cbc:Percent>
      <cac:TaxCategory>
        <cbc:ID schemeID=”UN/ECE 5305” schemeAgencyID=”6”
 schemeVersionID=”D07A”>E</cbc:ID>
        <cbc:TaxExemptionReasonCode>91</cbc:TaxExemptionReasonCode>
        <cbc:TaxExemptionReason>NON IMPON. ART. 9 I C.</cbc:TaxExemptionReason>
        <cac:TaxScheme>
          <cbc:ID>1</cbc:ID>
        </cac:TaxScheme>
      </cac:TaxCategory>
    </cac:TaxSubtotal>
  </cac:TaxTotal>
  <cac:Item>
    <cbc:Description languageID="IT">Assistenza alle operazioni doganali</cbc:Description>
  </cac:Item>
</cac:InvoiceLine>
```

Internal reference:
see @ page 29

UBL 2.0 Invoice :: InvoiceLine #3

Riga Fattura

Invoice Line

supplies of services sample

```
<cac:InvoiceLine>
  <cbc:ID>EPP</cbc:ID>
  <cbc:LineExtensionAmount currencyID="EUR">2.5</cbc:LineExtensionAmount>
  <cac:TaxTotal>
    <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
    <cac:TaxSubtotal>
      <cbc:TaxableAmount currencyID="EUR">2.5</cbc:TaxableAmount>
      <cbc:TaxAmount currencyID="EUR">0</cbc:TaxAmount>
      <cbc:Percent>0</cbc:Percent>
      <cac:TaxCategory>
        <cbc:ID schemeID=”UN/ECE 5305” schemeAgencyID=”6”
 schemeVersionID=”D07A”>E</cbc:ID>
        <cbc:TaxExemptionReasonCode>91</cbc:TaxExemptionReasonCode>
        <cbc:TaxExemptionReason>NON IMPON. ART. 9 I C.</cbc:TaxExemptionReason>
        <cac:TaxScheme>
          <cbc:ID>1</cbc:ID>
        </cac:TaxScheme>
      </cac:TaxCategory>
    </cac:TaxSubtotal>
  </cac:TaxTotal>
  <cac:Item>
    <cbc:Description languageID="IT">Rimborso Port Authority Fees</cbc:Description>
  </cac:Item>
</cac:InvoiceLine>
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: OrderReference

Riferimento Ordine
Order Reference

supplies of goods sample

```
<cbc:UBLVersionID>2.0</cbc:UBLVersionID>
<cbc:ProfileID>Javest-UBL-2.0-Invoice-Products-Sample</cbc:ProfileID>
<cbc:ID>0206</cbc:ID>
<cbc:IssueDate>2008-03-28+02:00</cbc:IssueDate>
<cbc:InvoiceTypeCode languageID="en" listAgencyID="6" listID="UN/ECE 1001" listVersionID="D06B">380</
 cbc:InvoiceTypeCode>
<cbc:DocumentCurrencyCode>EUR</cbc:DocumentCurrencyCode>
```

```
<cac:OrderReference>
   <cbc:ID>2-2008</cbc:ID>
   <cbc:SalesOrderID>2967</cbc:SalesOrderID>
</cac:OrderReference>
```

Both Customer and Supplier Order References facilitate eReconciliations

Copyright (c) 2008, JAVEST

supplies of goods sample

```
<cac:Delivery>
  <cbc:ID>1</cbc:ID>
  <cbc:Quantity>1</cbc:Quantity>
  <cbc:ActualDeliveryDate>2008-03-28+02:00</cbc:ActualDeliveryDate>
  <cbc:ActualDeliveryTime>17:00:00.328+02:00</cbc:ActualDeliveryTime>
  <cac:Despatch>
    <cac:DespatchParty>
      <cac:PartyName>
        <cbc:Name>TRUCK SERVICE snc</cbc:Name>
      </cac:PartyName>
      <cac:PostalAddress>
        <cbc:StreetName>Via Logistica</cbc:StreetName>
        <cbc:BuildingNumber>33</cbc:BuildingNumber>
        <cbc:CityName>Sarzana</cbc:CityName>
        <cbc:PostalZone>19038</cbc:PostalZone>
        <cbc:CountrySubentityCode>SP</cbc:CountrySubentityCode>
        <cac:Country>
          <cbc:IdentificationCode>IT</cbc:IdentificationCode>
        </cac:Country>
      </cac:PostalAddress>
    </cac:DespatchParty>
  </cac:Despatch>
</cac:Delivery>
```

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: DeliveryTerms

Termini di Consegna
Delivery Terms

supplies of goods sample

TIP:
Incoterms 2000 should be used (or Combiterms)

```
<cac:DeliveryTerms>
  <cbc:ID schemeAgencyID="ICC" schemeAgencyName="International Chamber of Commerce"
schemeID="Incoterms 2000" schemeName="FCA Incoterms 2000" schemeVersionID="2000">DDP</cbc:ID>
  <cbc:SpecialTerms>PORTO FRANCO</cbc:SpecialTerms>
</cac:DeliveryTerms>
```

DDP can be used instead of “Porto Franco”

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: Totals & Taxes

supplies of goods sample

```
<cac:TaxTotal>
  <cbc:TaxAmount currencyID="EUR">61.65</cbc:TaxAmount>
  <cac:TaxSubtotal>
    <cbc:TaxTaxAmountableAmount currencyID="EUR">308.25</cbc:TaxableAmount>
    <cbc: currencyID="EUR">61.65</cbc:TaxAmount>
    <cbc:Percent>20</cbc:Percent>
    <cac:TaxCategory>
      <cbc:ID schemeID="UN/ECE 5305" schemeAgencyID="6" schemeVersionID="D07A">S</cbc:ID>
      <cbc:Percent>20</cbc:Percent>
      <cac:TaxScheme>
        <cbc:ID>1</cbc:ID>
        <cbc:Name languageID="IT">IVA</cbc:Name>
        <cbc:TaxTypeCode listID="UN/ECE 5153" listAgencyID="6"
      listVersionID="D07A">VAT</cbc:TaxTypeCode>
      </cac:TaxScheme>
    </cac:TaxCategory>
  </cac:TaxSubtotal>
</cac:TaxTotal>

<cac:LegalMonetaryTotal>
  <cbc:LineExtensionAmount currencyID="EUR">308.25</cbc:LineExtensionAmount>
  <cbc:TaxInclusiveAmount currencyID="EUR">369.9</cbc:TaxInclusiveAmount>
  <cbc:PayableAmount currencyID="EUR">369.9</cbc:PayableAmount>
</cac:LegalMonetaryTotal>
```

IVA 20%
VAT 20%

UN/ECE 5305
Duty/tax/fee category

sample:
S = Standard rate

Copyright (c) 2008, JAVEST

UBL 2.0 Invoice :: InvoiceLine

supplies of goods sample

```
<cac:InvoiceLine>
  <cbc:ID>1</cbc:ID>
  <cbc:InvoicedQuantity>1</cbc:InvoicedQuantity>
  <cbc:LineExtensionAmount currencyID="EUR">308.25</cbc:LineExtensionAmount>
  <cac:TaxTotal>
    <cbc:TaxAmount currencyID="EUR">61.65</cbc:TaxAmount>
    <cac:TaxSubtotal>
      <cbc:TaxableAmount currencyID="EUR">308.25</cbc:TaxableAmount>
      <cbc:TaxAmount currencyID="EUR">61.65</cbc:TaxAmount>
      <cbc:Percent>20</cbc:Percent>
      <cac:TaxCategory>
        <cbc:ID schemeID="UN/ECE 5305" schemeAgencyID="6" schemeVersionID="D07A">S</cbc:ID>
        <cbc:Percent>20</cbc:Percent>
        <cac:TaxScheme>
          <cbc:ID>1</cbc:ID>
        </cac:TaxScheme>
      </cac:TaxCategory>
    </cac:TaxSubtotal>
  </cac:TaxTotal>
  <cac:Item>
    <cbc:Description languageID="IT">Videocitofono monofamiliare a colori wireless (senza fili) a pannello
solare</cbc:Description>
    <cac:SellersItemIdentification>
      <cbc:ID>VDS721201</cbc:ID>
    </cac:SellersItemIdentification>
  </cac:Item>
  <cac:Price>
    <cbc:PriceAmount currencyID="EUR">308.25</cbc:PriceAmount>
    <cbc:BaseQuantity>1</cbc:BaseQuantity>
  </cac:Price>
</cac:InvoiceLine>
```

Additionally, both the ItemClassificationCode (*UN/SPSC*) and CommodityCode (*Harmonized code*) can be used under *cac:Item/cac:CommodityClassification*

Copyright (c) 2008, JAVEST

...not just an Invoice

Maximize interoperability (CCTS, qualified data)

1-1 with Paper

Allows eBookkeeping

Eliminates re-keying of data

Easier to process: eBusiness with XML

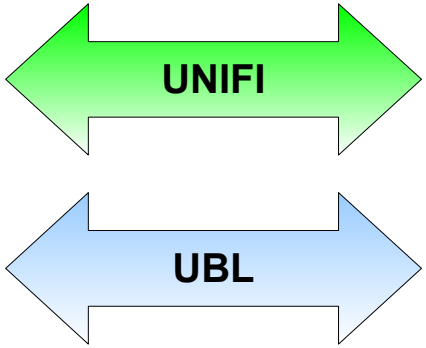
Easier to implement (community...)

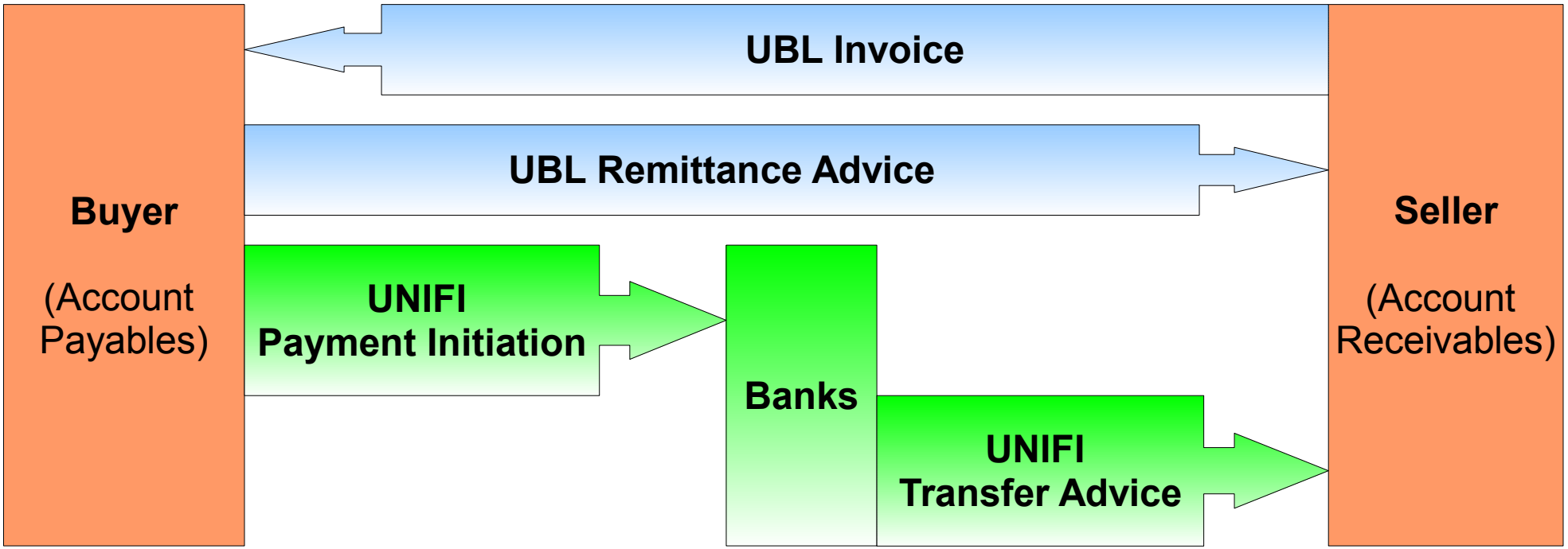
Allows eReconciliation

Copyright (c) 2008, JAVEST

UBL 2.0 :: eInvoicing & Financial Supply Chain

- eInvoicing (B2B / B2G)
  - EIP (*Electronic Invoice Presentment*)
  - EIPP (*Electronic Invoice Presentment & Payment*)
- eBilling (B2C)
  - EBP (*Electronic Bill Presentment*)
  - EBP (*Electronic Bill Presentment & Payment*)



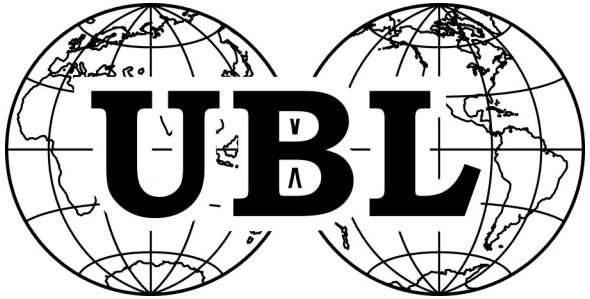


Abbreviations

CEN	*European Committee for Standardization*
OASIS	*Organization for the Advancement of Structured Information Standards*
ODETTE	*Organization for Data Exchange through Tele Transmission in Europe (Automotive industry)*
ODDC	*Odette Data Codes*
UBL	*Universal Business Language*
UN/CEFACT	*United Nations/Centre for Trade Facilitation and Electronic Business*

VAT directive 2001/115/EC

Copyright (c) 2008, JAVEST



UBL is ready for all of this !

Are You Ready ?

ALLIANCE MEMBER

Thanks !

Copyright (c) 2008, JAVEST

Universal Business Language

Italian Localization Sub-Committee

co-Chair

Roberto Cisternino

www.javest.com

roberto@javest.com

Mobile +39 328 2148123

- UBL Swinger 1.1 CE
- UBL Writer 1.2 CE (coming soon...)
- Universal Invoicer 1.0 (coming soon...)
- Codelist 1.0 (coming soon...)