

HubBroker iPaaS Order specification

cXML OrderRequest

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1. Introduction

cXML is a standard created by Ariba, intended for communication of business documents between procurement applications, e-commerce hubs and suppliers.

Integrated suppliers can receive electronic orders in the cXML 1.2 format from the HubBroker iPaaS. HubBroker iPaaS does not yet handle inbound cXML requests from buyers, only outbound to suppliers.

The xCBL3.5 standard is implemented as the canonical format on HubBroker iPaaS. All outbound cXML OrderRequest documents sent from HubBroker iPaaS are mapped to cXML1.2 from the canonical format. The HubBroker iPaaS xCBL 3.5 Order specification is recommended as a reference to understand the canonical order format in HubBroker iPaaS.

2. Purpose

The purpose of this document is to provide information about the implementation of cXML 1.2 in HubBroker iPaaS and how suppliers can receive cXML documents from buyers via HubBroker iPaaS regardless which eProcurement solution they use.

In addition to this document there is comprehensive material about the cXML standard and a cXML users Guide provided at <http://www.cxml.org>

3. Trading Partner Identification

The HTTP or FTP protocols and optionally the HubBroker iPaaS SOAP 1.2 envelope are used for outbound cXML transactions from the HubBroker iPaaS. The standard way of identifying sender and receiver in HubBroker iPaaS is with the Sender and Receiver ID's cXML header or optionally in the SOAP envelope. The HubBroker iPaaS SOAP 1.2 specification can be provided in addition to this document.

Note: The cXML Header elements "From" and "To" contain similar information as the "From" and "To" elements in the SOAP envelope. This makes either the SOAP envelope or the cXML Header redundant if both are used.

4. Schema validation

All cXML documents sent from HubBroker iPaaS are valid against the cXML 1.2 schema which can be downloaded from <http://www.cxml.org>

5. cXML OrderRequest on HubBroker iPaaS Connect

Below is a description of the xml segments used in the HubBroker iPaaS implementation of cXML OrderRequest. Any format mapping problems (from HubBroker iPaaS canonical format to cXML format) are also described. If a cXML segment defined in the cXML official specification is not present below, it is currently not used on HubBroker iPaaS. XML examples are shown for each segment.

5.1 OrderRequestHeader

Includes "orderId", "orderDate", "orderType", "type" and "orderVersion" as attributes and the below sub sections.

```
<OrderRequestHeader orderId="OrderRequest12345" orderDate="20081017T01:46:57+01:00" orderType="regular" type="new" orderVersion="1">
```

When a Change or Cancellation Order is sent the orderType value will be "update" or "delete" and the orderVersion value will increase for each change or cancellation document sent.

5.1.1 Total

Total net amount of the order.

```
<Total>
  <Money currency="SEK">500.00</Money>
</Total>
```

5.1.2 ShipTo

The buyer's delivery address. The "DeliverTo" element might be listed twice if specific location information is sent from the buyer. The first line specifying the name of the person to receive the goods, and the second specifying their location (building, floor, room).

```
<ShipTo>
  <Address addressID="addr123">
    <Name xml:lang="sv">Company name</Name>
    <PostalAddress>
      <DeliverTo>Surname, First name</DeliverTo>
      <DeliverTo>Building: B1 Floor: F2 Room: R3</DeliverTo>
      <Street>Shipping street</Street>
      <City>Shipping City</City>
      <PostalCode>1234</PostalCode>
      <Country isoCountryCode="SE">SE</Country>
    </PostalAddress>
  </Address>
</ShipTo>
```

5.1.3 BillTo

The buyer's bill to address.

```
<BillTo>
  <Address addressID="addr456">
    <Name xml:lang="sv">Company Name</Name>
    <PostalAddress>
      <Street>Bill street</Street>
      <City>Bill city</City>
      <PostalCode>1234</PostalCode>
      <Country isoCountryCode="SE">SE</Country>
    </PostalAddress>
  </Address>
</BillTo>
```

5.1.4 Tax

Total tax of the order and a tax description.

```
<Tax>
  <Money currency="SEK">50.00</Money>
  <Description xml:lang="sv">VAT</Description>
</Tax>
```

5.1.5 Contact

Buyer's contact information.

```
<Contact>
  <Name xml:lang="sv">Surname, First name</Name>
  <Email>test@test.se</Email>
  <Phone>
    <TelephoneNumber>
      <CountryCode isoCountryCode="SE">00</CountryCode>
      <AreaOrCityCode>00</AreaOrCityCode>
      <Number>+46123123123</Number>
    </TelephoneNumber>
  </Phone>
  <Fax>
    <TelephoneNumber>
      <CountryCode isoCountryCode="SE">00</CountryCode>
      <AreaOrCityCode>00</AreaOrCityCode>
      <Number>+46312312312</Number>
    </TelephoneNumber>
  </Fax>
</Contact>
```

Note: In HubBroker iPaaS canonical format xCBL 3.5 there is only one field for the whole phone number, whereas in cXML there are three fields required for phone/fax numbers (CountryCode, AreaOrCityCode and Number). To solve this format mapping problem CountryCode and AreaOrCityCode in outbound cXML order will be set to "00".

5.1.6 Comments

Free text information about the order entered by the buyer.

```
<Comments xml:lang="sv">Header note...</Comments>
```

Note: In cXML this section also contains any **attachment** information. However, attachments are currently not supported for cXML OrderRequest documents on HubBroker iPaaS.

5.1.7 DocumentReference

Only used for Change and Cancellation orders for reference to the original order.

```
<DocumentReference payloadID="0ahd6a00451k_OrderRequest12345"/>
```

5.2 ItemOut

Including "quantity", "lineNumber", "requestedDeliveryDate" and "isAdHoc" as attributes.

```
<ItemOut quantity="2.00" lineNumber="1" requestedDeliveryDate="20081024T11:00:00+01:00" isAdHoc="yes" >
```

The attribute "isAdHoc" is only included if the item is a free text item (not added from a product catalogue).

Note: In HubBroker iPaaS canonical format xCBL 3.5 you can specify multiple delivery dates for each line item and split the delivered quantity on these delivery dates. This is not possible in cXML. Only the first date (if several) from xCBL will be transferred to the outbound cXML order.

5.2.1 ItemID

The supplier's part ID.

```
<ItemID>  
  <SupplierPartID>123</SupplierPartID>  
</ItemID>
```

5.2.2 ItemDetail

Contains information about price, description, unit of measurement and classification code.

```
<ItemDetail>  
  <UnitPrice>  
    <Money currency="SEK">250.00</Money>  
  </UnitPrice>  
  <Description xml:lang="sv">Item description text</Description>  
  <UnitOfMeasure>EA</UnitOfMeasure>  
  <Classification domain="US-UN-SPSC">1234</Classification>  
</ItemDetail>
```

5.2.3 Tax

Total tax for the item.

```
<Tax>  
  <Money currency="SEK">25.00</Money>  
  <Description xml:lang="sv">VAT</Description>  
</Tax>
```

5.2.4 Comments

Free text information about the item entered by the buyer.

```
<Comments xml:lang="sv">Line_Item_Note...</Comments>
```

6. Example documents

6.1 cXML OrderRequest – original

```
<cXML payloadID="0ahd6a0037e5f7ab0000v9gb_PO_1234" timestamp="2013-04-15T03:09:18+01:00">
  <Header>
    <From>
      <Credential domain="NodeID">
        <Identity>CU_NO_123</Identity>
      </Credential>
    </From>
    <To>
      <Credential domain="NodeID">
        <Identity>senderID</Identity>
      </Credential>
    </To>
    <Sender>
      <Credential domain="NodeID">
        <Identity>CU_NO_123</Identity>
      </Credential>
      <UserAgent>N/A</UserAgent>
    </Sender>
  </Header>
  <Request>
    <OrderRequest>
      <OrderRequestHeader orderID="PO_1234" orderDate="20101123T14:26:23+01:00"
orderType="regular" type="new" orderVersion="1">
        <Total>
          <Money currency="USD">70.580</Money>
        </Total>
        <ShipTo>
          <Address addressID="8628">
            <Name xml:lang="en">ShipToName1</Name>
```

```

    <PostalAddress>
      <DeliverTo>RequisitionerName</DeliverTo>
      <Street>ShipToStreet 12</Street>
      <City>ShipToCity</City>
      <PostalCode>12345</PostalCode>
      <Country isoCountryCode="SE">SE</Country>
    </PostalAddress>
  </Address>
</ShipTo>
<BillTo>
  <Address addressID="1619">
    <Name xml:lang="en">BillToName1</Name>
    <PostalAddress>
      <Street>BillToStreet 12</Street>
      <City>BillToCity</City>
      <PostalCode>12345</PostalCode>
      <Country isoCountryCode="SE">SE</Country>
    </PostalAddress>
  </Address>
</BillTo>
<Contact>
  <Name xml:lang="en">RequisitionerName</Name>
  <Email>Requisitioner@buyer.com</Email>
  <Phone>
    <TelephoneNumber>
      <CountryCode isoCountryCode="SE">00</CountryCode>
      <AreaOrCityCode>00</AreaOrCityCode>
      <Number>+46081234567</Number>
    </TelephoneNumber>
  </Phone>
</Contact>
<Comments xml:lang="en">OrderHeader freetext note...
  <Attachment>
    <URL name="Attachment">http://192.168.181.26/nova/o/doc/207773a5-9a91-4743-b80e-
0ab2eb731e1d</URL>
  </Attachment>
  <Attachment>

```

```

        <URL name="Attachment">http://192.168.181.26/nova/o/doc/08eb5580-4e51-4a92-98e6-
0320584d4a58</URL>
    </Attachment>    </Comments>
</OrderRequestHeader>
    <ItemOut quantity="1.000" lineNumber="0000000001"
requestedDeliveryDate="20110523T00:00:00+01:00">
        <ItemID>
            <SupplierPartID>ALI0767000100</SupplierPartID>
        </ItemID>
        <ItemDetail>
            <UnitPrice>
                <Money currency="USD">59.250000</Money>
            </UnitPrice>
            <Description xml:lang="en">item description text</Description>
            <UnitOfMeasure>EA</UnitOfMeasure>
            <Classification domain="US-UN-SPSC">52152010</Classification>
            <ManufacturerPartID>0767 000 100</ManufacturerPartID>
        </ItemDetail>
        <Comments xml:lang="en">line item freetext note ...</Comments>
    </ItemOut>
    <ItemOut quantity="1.000" lineNumber="0000000002"
requestedDeliveryDate="20110523T00:00:00+01:00">
        <ItemID>
            <SupplierPartID>AWF144111</SupplierPartID>
        </ItemID>
        <ItemDetail>
            <UnitPrice>
                <Money currency="USD">11.330000</Money>
            </UnitPrice>
            <Description xml:lang="en">item description text</Description>
            <UnitOfMeasure>EA</UnitOfMeasure>
            <Classification domain="US-UN-SPSC">44121704</Classification>
            <ManufacturerPartID>14 41 11</ManufacturerPartID>
        </ItemDetail>
        <Comments xml:lang="en">line item freetext note ...</Comments>
    </ItemOut>
</OrderRequest>
</Request>

```

</cXML>

6.2 cXML OrderRequest - change

```
<cXML payloadID="0ahd6a0037e5f7ab0000v9gb_ChangeOrder_1234567890_1"
timestamp="2013-04-15T03:51:43+01:00">
  <Header>
    <From>
      <Credential domain="NodeID">
        <Identity>CU_NO_123</Identity>
      </Credential>
    </From>
    <To>
      <Credential domain="NodeID">
        <Identity>senderID</Identity>
      </Credential>
    </To>
    <Sender>
      <Credential domain="NodeID">
        <Identity>CU_NO_123</Identity>
      </Credential>
      <UserAgent>N/A</UserAgent>
    </Sender>
  </Header>
  <Request>
    <OrderRequest>
      <OrderRequestHeader orderID="ChangeOrder_1234567890"
orderDate="20110819T14:39:22-05:00" orderType="regular" type="update" orderVersion="2">
        <Total>
          <Money currency="USD">70.580</Money>
        </Total>
        <ShipTo>
          <Address addressID="8628">
            <Name xml:lang="en">ShipToName1</Name>
```

```

    <PostalAddress>
      <DeliverTo>RequisitionerName</DeliverTo>
      <Street>ShipToStreet 12</Street>
      <City>ShipToCity</City>
      <PostalCode>12345</PostalCode>
      <Country isoCountryCode="SE">SE</Country>
    </PostalAddress>
  </Address>
</ShipTo>
<BillTo>
  <Address addressID="1619">
    <Name xml:lang="en">BillToName1</Name>
    <PostalAddress>
      <Street>BillToStreet 12</Street>
      <City>BillToCity</City>
      <PostalCode>12345</PostalCode>
      <Country isoCountryCode="SE">SE</Country>
    </PostalAddress>
  </Address>
</BillTo>
<Contact>
  <Name xml:lang="en">RequisitionerName</Name>
  <Email>Requisitioner@buyer.com</Email>
  <Phone>
    <TelephoneNumber>
      <CountryCode isoCountryCode="SE">00</CountryCode>
      <AreaOrCityCode>00</AreaOrCityCode>
      <Number>+46081234567</Number>
    </TelephoneNumber>
  </Phone>
</Contact>
<Comments>
  <Attachment>
    <URL name="Attachment">http://192.168.181.26/nova/o/doc/207773a5-9a91-4743-b80e-0ab2eb731e1d</URL>
  </Attachment>
  <Attachment>

```

```

    <URL name="Attachment">http://192.168.181.26/nova/o/doc/08eb5580-4e51-4a92-98e6-
0320584d4a58</URL>
  </Attachment>
</Comments>
  <DocumentReference payloadID="0ahd6a0037e5f7ab0000v9gb_Order_1234567890"/>
</OrderRequestHeader>
  <ItemOut quantity="1.000" lineNumber="0000000001"
requestedDeliveryDate="20110523T00:00:00+01:00">
    <ItemID>
      <SupplierPartID>ALI0767000100</SupplierPartID>
    </ItemID>
    <ItemDetail>
      <UnitPrice>
        <Money currency="USD">59.250000</Money>
      </UnitPrice>
      <Description xml:lang="en">item description text</Description>
      <UnitOfMeasure>EA</UnitOfMeasure>
      <Classification domain="US-UN-SPSC">52152010</Classification>
      <ManufacturerPartID>0767 000 100</ManufacturerPartID>
    </ItemDetail>
  </ItemOut>
  <ItemOut quantity="1.000" lineNumber="0000000002"
requestedDeliveryDate="20110523T00:00:00+01:00">
    <ItemID>
      <SupplierPartID>AWF144111</SupplierPartID>
    </ItemID>
    <ItemDetail>
      <UnitPrice>
        <Money currency="USD">11.330000</Money>
      </UnitPrice>
      <Description xml:lang="en">item description text</Description>
      <UnitOfMeasure>EA</UnitOfMeasure>
      <Classification domain="US-UN-SPSC">44121704</Classification>
      <ManufacturerPartID>14 41 11</ManufacturerPartID>
    </ItemDetail>
  </ItemOut>
</OrderRequest>
</Request>

```

</cXML>