

NAVISTAR[®]

cXML Purchase Order Dispatch

Deployment Guide

Version 1.0

Navistar cXML Purchase Order Process

Navistar's corporate procurement system converts approved requisitions, both from PunchOut sessions or otherwise, into one or more purchase orders. Navistar supports the cXML specification at version 1.2.008 for transmission of electronic purchase orders. Further information on cXML can be found at <http://www.cxml.org>.

Navistar supports the cXML format for indirect goods and services orders originating from Corporate Procurement. cXML is not supported for direct material or production orders. For direct materials orders, please refer to Navistar's ANSI EDI X.12 implementation guides at <http://www.navistarsupplier.com>.

cXML Purchase Orders are transmitted via a synchronous request/response message over HTTPS only. Unsecured HTTP is not supported due to the presence of sensitive information (eg. authentication tokens, procurement card numbers) that may be contained in a purchase order message. In order to implement the cXML purchase order process, suppliers must accept the cXML OrderRequest document and send the cXML Response to the OrderRequest document.

Purchase Order Acknowledgement, Change, Cancel, and Status Updates

Navistar does not currently support transmission or receipt of purchase order acknowledgement (POA), change, cancellation, or status request messages in the cXML format. If these capabilities are required utilization of the Navistar supplier portal may provide capabilities to perform some of these transactions online. However, suppliers are required to send a functional acknowledgement (Response to the OrderRequest document) to indicate that a purchase order was received and accepted by the supplier system.

Common Data Synchronization

Navistar utilizes the following standards for synchronization of common data elements in cXML transactions. In the case of classification data, some additional mapping to Navistar's core UNSPSC set may be necessary.

Control Data	Standard Used by Navistar
Category codes	UNSPSC
Units of measure	UNUOM
Currency codes	ISO 4127
Country codes	ISO 3166
Language codes	ISO 639

Navistar cXML OrderRequest Message Template

```

<?xml version="1.0"?>
<!DOCTYPE cXML PUBLIC "" "http://xml.cxm.org/schemas/cXML/1.2.008/cXML.dtd">
<cXML payloadID="[payloadID]" timestamp="YYYY-MM-DD'T'HH:mm:ssZ" version="1.2.008" xml:lang="en-US">
  <Header>
    <From>
      <Credential domain="[From Domain]">
        <Identity>[From Identity]</Identity>
      </Credential>
    </From>
    <To>
      <Credential domain="[To Domain]">
        <Identity>[To Identity]</Identity>
      </Credential>
    </To>
    <Sender>
      <Credential domain="[Sender Domain]">
        <Identity>[Sender Identity]</Identity>
        <SharedSecret>[Shared Secret]</SharedSecret>
      </Credential>
      <UserAgent>[User Agent]</UserAgent>
    </Sender>
  </Header>
  <Request deploymentMode="production">
    <OrderRequest>
      <OrderRequestHeader orderDate="YYYY-MM-DDTHH:MM:SS+hh:mm" orderID="[PO Number]"
orderType="regular" type="new">
        <Total>
          <Money currency="USD">[PO Total]</Money>
        </Total>
        <ShipTo>
          <Address addressID="[Ship To Code]">
            <Name xml:lang="en">[Ship To Name]</Name>
            <PostalAddress name="[Ship To Code]">
              <DeliverTo>[Ship To Contact]</DeliverTo>
              <Street>[Street Address]</Street>
              <City>[City]</City>
              <State>[State Abbreviation]</State>
              <PostalCode>[Postal Code]</PostalCode>
              <Country isoCountryCode="[Country Code]">[Country Code]</Country>
            </PostalAddress>
            <Email name="Recipient">[Email Address]</Email>
            <Phone>
              <TelephoneNumber>
                <CountryCode isoCountryCode=""/>
              </TelephoneNumber>
            </Phone>
          </Address>
        </ShipTo>
      </OrderRequestHeader>
    </OrderRequest>
  </Request>
</cXML>

```

```

        <AreaOrCityCode/>
        <Number>[Phone Number]</Number>
    </TelephoneNumber>
</Phone>
</Address>
</ShipTo>
<BillTo>
    <Address addressID="[Bill To Code]">
        <Name xml:lang="en">[Bill To Name]</Name>
        <PostalAddress name="[Location Code]">
            <DeliverTo>[AP Recipient]</DeliverTo>
            <Street>[Street Address ]</Street>
            <City>[City]</City>
            <State>[State Abbreviation]</State>
            <PostalCode>[Postal Code]</PostalCode>
            <Country isoCountryCode="[Country Code]">[Country Code]</Country>
        </PostalAddress>
        <Email name="">[Email Address]</Email>
        <Phone>
            <TelephoneNumber>
                <CountryCode isoCountryCode=""/>
                <AreaOrCityCode/>
                <Number>[Phone Number]</Number>
            </TelephoneNumber>
        </Phone>
    </Address>
</BillTo>
<Shipping>
    <Money currency="[Currency Code]">[Shipping Charge]</Money>
    <Description xml:lang="en">[Shipping Description]</Description>
</Shipping>
<Tax>
    <Money currency="[Currency Code]">[Tax Charge]</Money>
    <Description xml:lang="en">[Tax Description]</Description>
</Tax>
<Payment>
    <PCard expiration="YYYY-mm-DDTHH:MM:SS+hh:mm" number="[PCard Number]"/>
</Payment>
<Comments>[ Comments]</Comments>
<Extrinsic name="[Extrinsic Name]">[Extrinsic Value]</Extrinsic>
</OrderRequestHeader>
<ItemOut lineNumber="[Line Number]" quantity="[Quantity]" requestedDeliveryDate="[Requested Date]"
requisitionID="">
    <ItemID>
        <SupplierPartID>[Supplier Part ID]</SupplierPartID>
        <SupplierPartAuxiliaryID>[Supplier Aux Part ID]</SupplierPartAuxiliaryID>
    </ItemID>

```

```

</ItemID>
<ItemDetail>
  <UnitPrice>
    <Money currency="[Currency Code]">[Unit Price]</Money>
  </UnitPrice>
  <Description xml:lang="en">[Product Description]</Description>
  <UnitOfMeasure>[UOM]</UnitOfMeasure>
  <Classification domain="[Classification Domain]">[Classification Code]</Classification>
  <ManufacturerPartID>[Manufacturer Part ID]</ManufacturerPartID>
  <ManufacturerName>[Manufacturer Name]</ManufacturerName>
  <URL>[Manufacturer URL]</URL>
</ItemDetail>
<ShipTo>
  <Address addressID="[Ship To Code]">
    <Name xml:lang="en">[Ship To Name]</Name>
    <PostalAddress name="[Location Code]">
      <DeliverTo>[Package Recipient]</DeliverTo>
      <Street>[Street Address]</Street>
      <City>[City]</City>
      <State>[State Abbreviation]</State>
      <PostalCode>[Postal Code]</PostalCode>
      <Country isoCountryCode="[Country Code]">[Country Code]</Country>
    </PostalAddress>
    <Email name="Recipient">[Email Address]</Email>
    <Phone>
      <TelephoneNumber>
        <CountryCode isoCountryCode=""/>
        <AreaOrCityCode/>
        <Number>[Phone Number]</Number>
      </TelephoneNumber>
    </Phone>
  </Address>
</ShipTo>
<Shipping>
  <Money currency="[Currency Code]">[Shipping Charge]</Money>
  <Description xml:lang="en">[Shipping Description]</Description>
</Shipping>
<Tax>
  <Money currency="[Currency Code]">[Tax Charge]</Money>
  <Description xml:lang="en">[Tax Description]</Description>
</Tax>
<Distribution>
  <Accounting name="">
    <Segment description="" id="" type=""/>
  </Accounting>
<Charge>

```

```
<Money currency=""></Money>  
</Charge>  
</Distribution>  
<Comments>[Comments]</Comments>  
</ItemOut>  
</OrderRequest>  
</Request>  
</cXML>
```

Navistar cXML PO Sections

Section	Comments
Header	The header contains authentication information including from, to, and sender domains and identifiers as well as the shared secret used for authentication.
OrderRequest	The order request contains the detail of the order.
OrderRequestHeader	The order request header contains header level detail information such as header shipping and billing information.
ShipTo (header level) and BillTo	Navistar uses up to three <Street> tags along with <City>, <State>, <PostalCode>, and (optional) <Country>.
Shipping (header level) (optional)	If shipping amounts are specified on the purchase order, they will be specified in this section. This section will specify the sum of all Shipping charges for the entire order.
Tax (header level) (optional)	If tax amounts are specified on the purchase order, they will be specified in this section. This section will specify the sum of all Tax charges for the entire order.
Payment (optional)	If a PCard is used for payment of a purchase order, the card number and expiration date will be specified in this section.
Comments (header level) (optional)	Any comments specified on the purchase order header will be passed in this tag.
Extrinsics (header level) (optional)	Any extrinsic values at the header level will be passed in this section.
ItemOut	The item out contains the looped information for purchase order lines or schedules. Each PO line will have its own item out entry. Navistar uses a unique number for each PO line.
Ship To (Line Level) (optional)	Navistar supports purchase orders with multiple shipping schedules. As such, the shipping information must be evaluated for each LineOut in order to ensure that the correct shipment addresses are applied.
Shipping (line level) (optional)	If shipping amounts are specified on the purchase order, they will be specified in this section on a per-line basis.
Tax (line level) (optional)	If tax amounts are specified on the purchase order, they will be specified in this section on a per-line basis.
Distribution (not used)	This section is not currently implemented but is reserved for future use.

Navistar cXML PO Field Lengths and Examples

The following table lists the fields, data types, and lengths that are utilized by Navistar's ERP. All values are transformed to well-formed XML and as such, are transmitted in text. Suppliers can use this table to understand the types of values that can be transmitted and thus, better plan their implementation.

Variable	Type	Field Length	Example Value
AP Recipient	Char	30	Navistar, Inc.
Bill To Code	Char	10	00444X3
Bill To Name	Char	30	Knoxville, TN – IAC
City	Char	30	Warrenville
Classification	Char	10	43000000
Classification Domain	Char	10	UNSPSC
Comments	Long	2000	Long comments. These are comments for the order.
Contact Phone	Char	24	630/753-5000
Country Code	Char	30	US
Currency Code	Char	3	USD
Deployment Mode	Char	10	production
Email Address	Char	70	john.doe@navistar.com
Extrinsic Name	Char	254	email
Extrinsic Value	Char	254	me@you.com
From Domain	Char	50	DUNS
From Identity	Char	50	005214200
Line Number	Nbr	5	1
Manufacturer Name	Char	30	HP
Manufacturer Part ID	Char	50	KD852UP#ABA
Order Date	Char	30	2009-03-03T06:00:00+00:00
Order Total	Sign	23.3	1185.09
PCard Expiration	Char	30	2011-02-28T06:00:00+00:00
PCard Number	Char	20	1234567890123456
PO Number	Char	16	40100.0000001234
Postal Code	Char	12	60555
Product Description	Char	254	HP Compaq Business Desktop dc7800 - Core 2 Duo E4500 2.2 GHz
Quantity	Nbr	11.4	1
Sender Domain	Char	50	DUNS
Sender Identity	Char	50	005214200
Shared Secret	Char	88	[Shared secret agreed upon by supplier and Navistar]
Ship To Code	Char	10	00068X1
Ship To Contact	Char	30	Doe, John / Doe, John
Ship To Name	Char	30	Warrenville, IL – World HQ
Shipping Charge	Sign	11.4	5.23
Shipping Description	Char	254	Overnight Air
State	Char	6	IL
Street Address	Char	55	4201 Winfield Road

Supplier Aux Part ID	Char	50	35256875CA
Supplier Part ID	Char	50	KD852UP#ABA
Tax Charge	Nbr	15.6	2.55
Tax Description	Char	254	Sales Tax
To Domain	Char	50	DUNS
To Identity	Char	50	[Supplier DUNS number]
Unit Price	Sign	10.5	1177.31
UOM	Char	3	EA
User Agent	Char	30	PeopleSoft eProcurement

Sample cXML Purchase Order

```

<?xml version="1.0" encoding="Cp1252"?>
<!DOCTYPE cXML
  SYSTEM "http://xml.cxml.org/schemas/cXML/1.2.008/cXML.dtd">
<cXML version="1.2.008" xml:lang="en-US" timestamp="2009-03-27T11:20:49.000000-0500" payloadID="2009-03-
27T11:20:49.000000-0500">
  <Header>
    <From>
      <Credential domain="DUNS">
        <Identity>005214200</Identity>
      </Credential>
    </From>
    <To>
      <Credential domain="DUNS">
        <Identity>123456789</Identity>
      </Credential>
    </To>
    <Sender>
      <Credential domain="DUNS">
        <Identity>005214200</Identity>
        <SharedSecret>password</SharedSecret>
      </Credential>
      <UserAgent>PeopleSoft eProcurement</UserAgent>
    </Sender>
  </Header>
  <Request deploymentMode="production">
    <OrderRequest>
      <OrderRequestHeader type="new" orderID="40100.0000000143" orderDate="2009-03-03T06:00:00+00:00">
        <Total>
          <Money currency="USD">1177.31</Money>
        </Total>
        <ShipTo>
          <Address addressID="00068X1">
            <Name xml:lang="en">Warrenville, IL – World HQ</Name>
            <PostalAddress name="00068X1">
              <DeliverTo>Doe, John / Doe, John</DeliverTo>
              <Street>4201 Winfield Road</Street>
              <Street/>
              <Street/>
              <City>Warrenville</City>
              <State>IL</State>
              <PostalCode>60543</PostalCode>
              <Country isoCountryCode="US"/>
            </PostalAddress>
            <Email name="Recipient">john.doe@navistar.com</Email>
          </Address>
        </ShipTo>
      </OrderRequestHeader>
    </OrderRequest>
  </Request>
</cXML>

```

```

    <Phone>
      <TelephoneNumber>
        <CountryCode isoCountryCode=""/>
        <AreaOrCityCode/>
        <Number/>
      </TelephoneNumber>
    </Phone>
  </Address>
</ShipTo>
<BillTo>
  <Address addressID="00068X1">
    <Name xml:lang="en">IL-NAVISTAR, INC.</Name>
    <PostalAddress name="">
      <DeliverTo>Navistar, Inc.</DeliverTo>
      <Street>4201 Winfield Road</Street>
      <Street/>
      <City>Warrenville</City>
      <State>IL</State>
      <PostalCode>60555</PostalCode>
      <Country isoCountryCode="US"/>
    </PostalAddress>
    <Email name="">john.doe@navistar.com</Email>
    <Phone>
      <TelephoneNumber>
        <CountryCode isoCountryCode="US"/>
        <AreaOrCityCode/>
        <Number/>
      </TelephoneNumber>
    </Phone>
  </Address>
</BillTo>
<Shipping>
  <Money currency="USD">0</Money>
  <Description xml:lang="en"/>
</Shipping>
<Tax>
  <Money currency="USD">0</Money>
  <Description xml:lang="en">Sales Tax</Description>
</Tax>
<Payment>
  <PCard expiration="2011-02-28T06:00:00+00:00" number="1234567890123456"/>
</Payment>
<Comments/>
</OrderRequestHeader>
<ItemOut requestedDeliveryDate="" quantity="1" lineNumber="1" requisitionID="">
  <ItemID>

```

```

    <SupplierPartID> KD852UP#ABA</SupplierPartID>
    <SupplierPartAuxiliaryID>QA5060296</SupplierPartAuxiliaryID>
  </ItemID>
  <ItemDetail>
    <UnitPrice>
      <Money currency="USD">1177.31</Money>
    </UnitPrice>
    <Description xml:lang="en">HP Compaq Business Desktop dc7800 - Core 2 Duo E4500 2.2
GHz</Description>
    <UnitOfMeasure>EA</UnitOfMeasure>
    <Classification domain=""/>
    <ManufacturerPartID>KD852UP#ABA</ManufacturerPartID>
    <ManufacturerName/>
    <URL/>
  </ItemDetail>
  <ShipTo>
    <Address addressID="00068X1">
      <Name xml:lang="en">Warrenville, IL – World HQ</Name>
      <PostalAddress name="00068X1">
        <DeliverTo>Doe, John / Doe, John</DeliverTo>
        <Street>4201 Winfield Road</Street>
        <Street/>
        <City>Warrenville</City>
        <State>IL</State>
        <PostalCode>60543</PostalCode>
        <Country isoCountryCode="US" />
      </PostalAddress>
      <Email name="Recipient">john.doe@navistar.com</Email>
      <Phone>
        <TelephoneNumber>
          <CountryCode isoCountryCode="" />
          <AreaOrCityCode/>
          <Number/>
        </TelephoneNumber>
      </Phone>
    </Address>
  </ShipTo>
  <Shipping>
    <Money currency="USD">0</Money>
    <Description xml:lang="en" />
  </Shipping>
  <Tax>
    <Money currency="USD">0</Money>
    <Description xml:lang="en">Sales Tax</Description>
  </Tax>
  <Distribution>

```

```
<Accounting name="DistributionCharge">
  <Segment type="" id="" description=""/>
</Accounting>
<Charge>
  <Money currency="USD"/>
</Charge>
</Distribution>
<Comments/>
</ItemOut>
</OrderRequest>
</Request>
</cXML>
```

cXML Order Response

Navistar expects to receive an order response in the 200 range if the purchase order is processed successfully and accepted by the supplier system. Response codes at 300 or above are treated as exceptions and will indicate that the order dispatch has failed.

Return Status Code Range	Handled As
200	OK
< 300	OK
400	Status code: 400 - Bad Request
401	Status code: 401 - Unauthorized
402	Status code: 402 - Payment Required
403	Status code: 403 - Forbidden
406	Status code: 406 - Not Acceptable
409	Status code: 409 - Conflict
500	Status code: 500 - Internal Server Error
501	Status code: unknown
550, 551, 560	Status code: 409 - Conflict
Other	Status code: unknown

Sample Order Response Document

```
<?xml version="1.0"?>
<!DOCTYPE cXML PUBLIC "" "http://xml.cxm.org/schemas/cXML/1.2.019/cXML.dtd">
<cXML payloadID="2009-04-06T17:26:45.000000-0500" timestamp="04/06/09 03:26:51 PM"
version="1.0">
  <Response>
    <Status code="200" text="OK"/>
    <PunchOutSetupResponse>
      <StartPage>
        <URL>https://www.supplier.com/punchout/handler.web?token=xxxxxx</URL>
      </StartPage>
    </PunchOutSetupResponse>
  </Response>
</cXML>
```