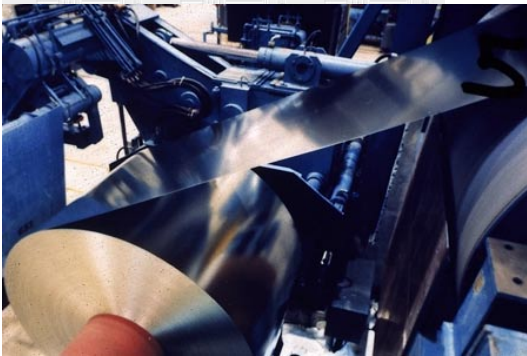


isXML: Vendor Order

An Industry Document Guideline for Metal Transactions

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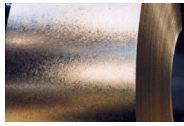


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Background

This document is intended to describe the ‘payload’ section of an XML-formatted ‘Vendor Order’ message. Message routing structures are not currently a part of these guidelines.

The **structure** of the AISI XML message is as follows:

isXML DTD

1. Interchange level (described in ‘Draft V0001 – Control.doc)
2. Transaction level
 - 2.1. Control (described in ‘Draft V0001 – Control.doc)
 - 2.2. Data Area
 - 2.2.1. Header
 - 2.2.2. Detail

As part of the methodology used to develop these guidelines, the work group mapped transaction data requirements, grouped like elements together as ‘classes’ or common components, and structured the document.

The section labeled ‘**Class Relationships**’ diagrams the document structure in terms of the identified classes or components. The section labeled ‘**Document Structure**’ further outlines the hierarchical structure of the message.

The ‘**isXML DTD**’ portion of the guideline contains the message DTD. The common class definitions have been ‘included’ in the DTD and are described in ‘Draft V0001 – Overview.doc’.

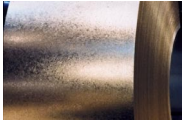
A number of sections in the guideline have been reserved for ‘examples’. The ‘source document’ is a representation of a paper document used to derive the example. The ‘machine version’ example is a fully extended version of the XML which would be used where sophisticated systems are communicating and have access to industry and society codes and table structures. Finally, the ‘text version’ example is used for a lower-tech implementation where codes and tables need not be referenced.

A tag dictionary is included in ‘Draft V0001 – Overview.doc’.



Transaction Description and Usage

This draft guideline contains the format and establishes the data content of the purchase order transaction set as communicated between a vendor and a steel supplier. This transaction could be used by a supplier to purchase commodities or services.



Class Relationships

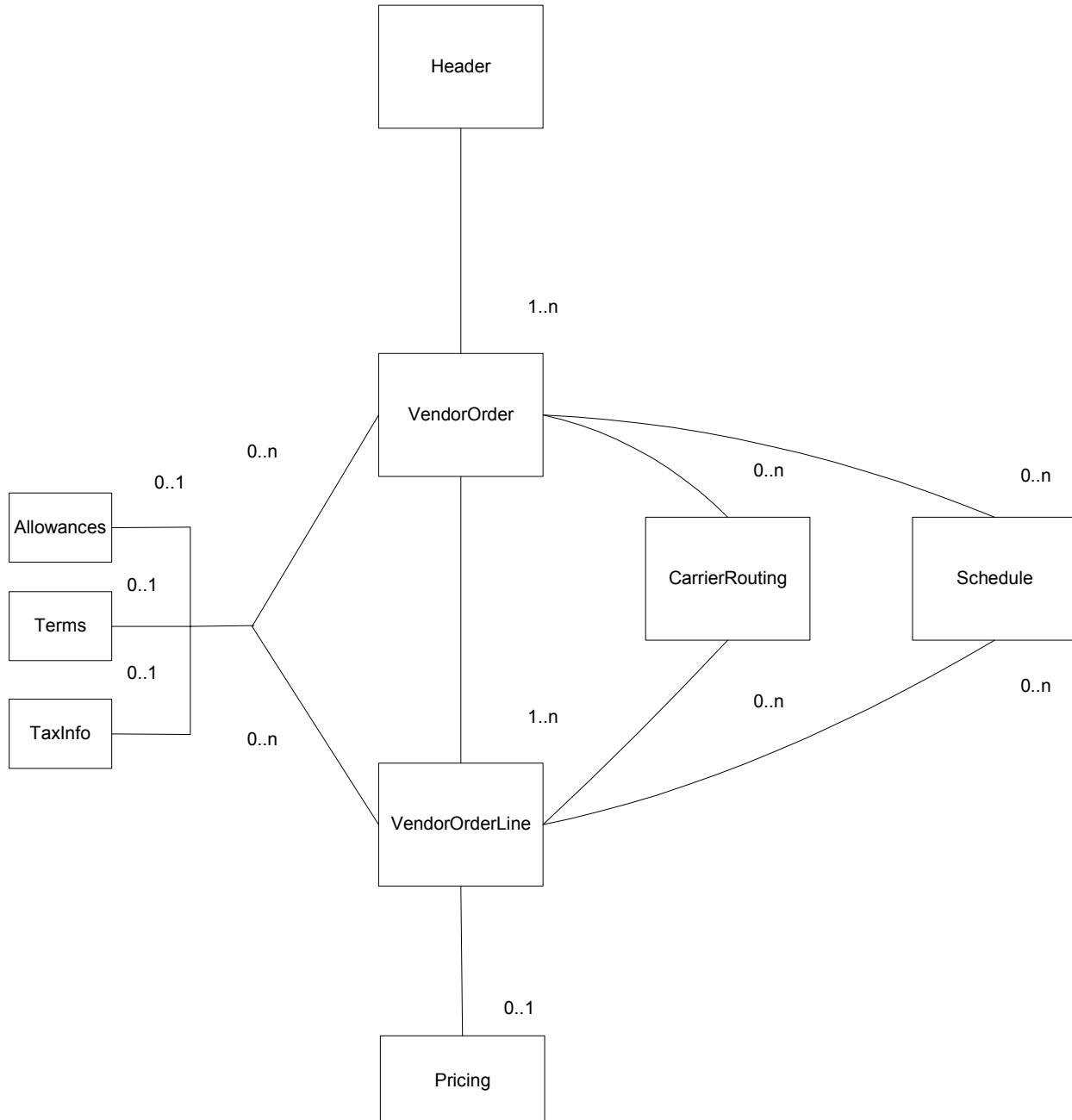
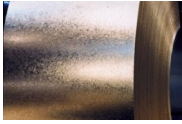


Figure 1



Document Structure

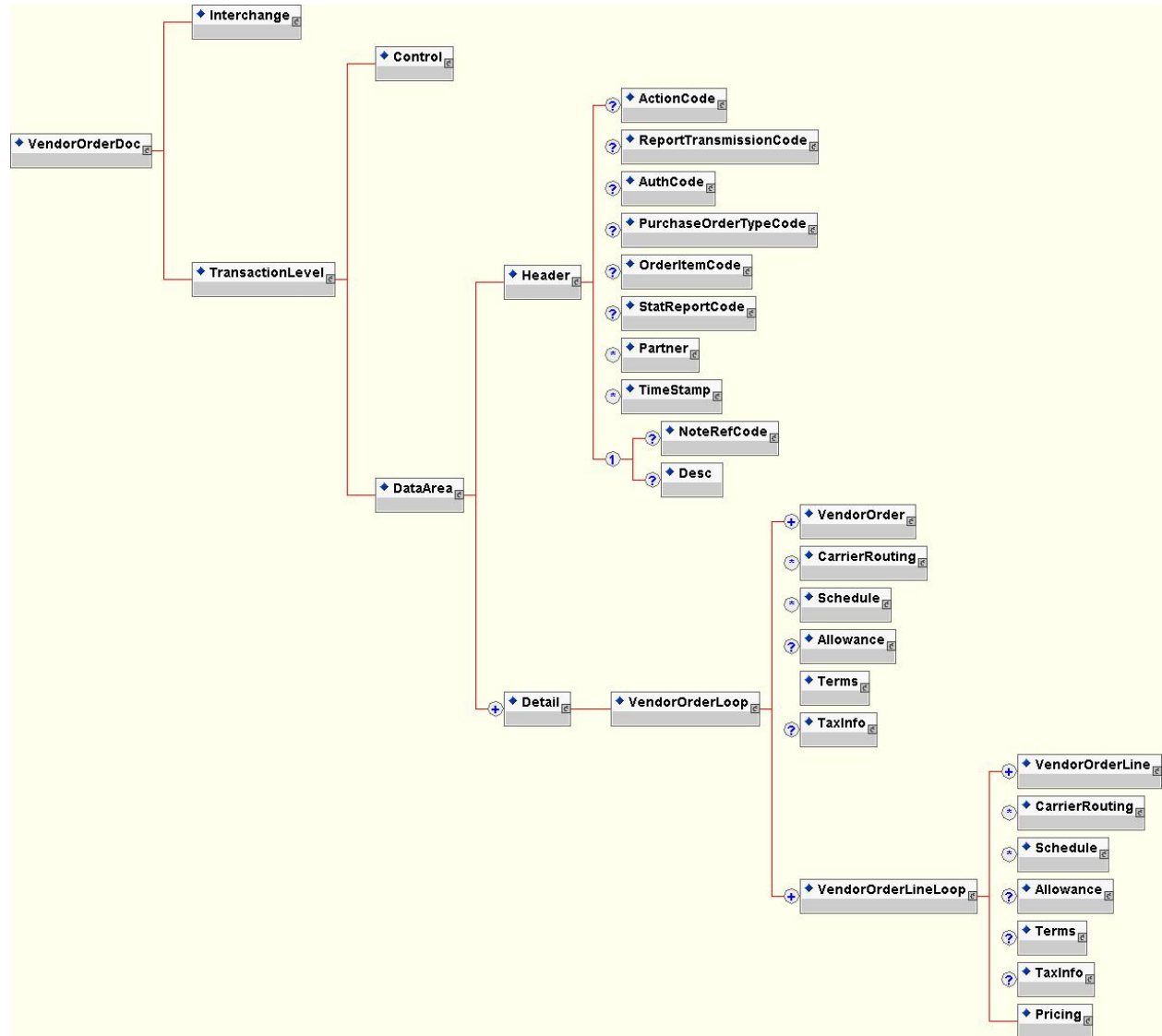


Figure 2



isXML DTD

```
<?xml version="1.0" encoding="UTF-8"?>
<!ENTITY % classcommon.dtd SYSTEM "classcommon.dtd">
%classcommon.dtd;
<ELEMENT VendorOrderDoc (Interchange, TransactionLevel)>
<!-- Document Definition has envelope information and transaction information -->
<ELEMENT TransactionLevel (Control, DataArea)>
<ELEMENT DataArea (Header, Detail+)>
<ELEMENT Detail (VendorOrderLoop)>
<ELEMENT VendorOrderLoop (VendorOrder+, CarrierRouting*, Schedule*, Allowance?, Terms,
TaxInfo?, VendorOrderLineLoop+)>
<ELEMENT VendorOrderLineLoop (VendorOrderLine+, CarrierRouting*, Schedule*, Allowance?,
Terms?, TaxInfo?, Pricing)>
```



Examples

The following are examples of the actual vendor order transaction in use. You will see a sample source document followed by both a machine-based and a text-based isXML example that matches the source document



Vendor Order

Example: Source Document

SUPPLIER STEEL CORPORATION

"Steel from us
Is a real steal"

Partner
Vendor

To:
Steel Supplies Ltd
1111 Little Steel Drive
Steel Town, USA 10002

(Hereinafter "Seller")

Delivery date:ASAP
(If date cannot be met, advise at once)

Partner
Buyer

1111 Big Steel Road
Steel Town, USA 10001-0001

Vendor
Order

Purchase Order

Order date: 04/09/2001 Order No.100-123456

MAIL ORIGINAL INVOICE ON
DATE OF SHIPMENT TO:
Supplier Steel Corporation
Comptroller - Room 001
1111 Big Steel Road
Steel Town, USA 10001
United States

Terms

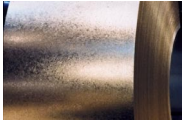
Terms: 1% 10 NET 30

Please furnish STEEL SUPPLIER CORP (Hereafter "Purchaser") in accordance with all conditions specified in this purchase order including the next page hereto and all attachments hereto, the following:

Item Description	Quantity	Price	Ext Price
001 1" x 2" Shiny Widgets	1,200	\$1.00/DOZ	\$100.00
1x2 WIDGETS, MODEL X12, SHINY, THREADED ON ONE END, LUBRICATED, PAINT ONE END BLUE.			
Total			\$100.00

Vendor
OrderLine

Pricing



Example: Machine-Based Version

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE VendorOrderDoc SYSTEM "VendorOrder.dtd">
<VendorOrderDoc>
  <Interchange/>
  <TransactionLevel>
    <Control/>
    <DataArea>
      <Header>
        <ActionCode>
          <AgencyQualCode>AX</AgencyQualCode>
          <TableNum>306</TableNum>
          <CodeValue>5</CodeValue>
          <Desc>Send</Desc>
        </ActionCode>
        <ReportTransmissionCode>
          <AgencyQualCode>AX</AgencyQualCode>
          <TableNum>756</TableNum>
          <CodeValue>9</CodeValue>
          <Desc>Electronic Mail</Desc>
        </ReportTransmissionCode>
        <Partner PartnerType="Buyer">
          <Name>SUPPLIER STEEL CORPORATION</Name>
          <Addr1>1111 BIG STEEL ROAD</Addr1>
          <CityName>STEEL TOWN</CityName>
          <PostalCode>10001-0001</PostalCode>
          <CountryCode>
            <Desc>USA</Desc>
          </CountryCode>
        </Partner>
        <Partner PartnerType="Vendor">
          <Name>Steel Supplie Ltd</Name>
          <Addr1>1111 LITTLE STEEL ROAD</Addr1>
          <CityName>STEEL TOWN</CityName>
          <PostalCode>10001-0001</PostalCode>
          <CountryCode>
            <Desc>USA</Desc>
          </CountryCode>
        </Partner>
        <Partner PartnerType="BillTo">
          <Name>SUPPLIER STEEL CORPORATION</Name>
          <Addr1>COMPTRROLLER - ROOM 001</Addr1>
          <Addr2>1111 BIG STEEL ROAD</Addr2>
          <CityName>STEEL TOWN</CityName>
          <PostalCode>10001</PostalCode>
          <CountryCode>
            <CodeValue>USA</CodeValue>
          </CountryCode>
        </Partner>
      </Header>
    </DataArea>
  </TransactionLevel>
</VendorOrderDoc>
```

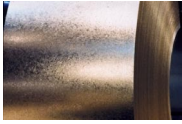
The diagram consists of two rectangular boxes with a horizontal-line pattern. The first box, labeled "Partner Buyer", has a pointer line extending from its left side to the "<Partner PartnerType='Buyer'>" element in the XML code. The second box, labeled "Partner Vendor", has a pointer line extending from its left side to the "<Partner PartnerType='Vendor'>" element in the XML code.



Example: Machine-Based Version (con't)

```
</Partner>
<TimeStamp TimeStampType="Vendor">
  <Date>2001.04.09</Date>
</TimeStamp>
<TimeStamp TimeStampType="Delivery">
  <Date>ASAP</Date>
</TimeStamp>
<Note>
  <NoteRefCode>
    <AgencyQualCode>AX</AgencyQualCode>
    <TableNum>363</TableNum>
    <CodeValue>ADD</CodeValue>
    <Desc>ADDITIONAL INFORMATION</Desc>
  </NoteRefCode>
  <Desc>PLEASE FURNISH STEEL SUPPLIER CORP HEREAFTER ("PURCHASER")
  IN ACCORDANCE WITH ALL CONDITIONS SPECIFIED IN THIS PURCHASE ORDER INCLUDING
  THE NEXT PAGE HERETO AND ALL ATTACHMENTS HERETO, THE FOLLOWING:</Desc>
</Note>
</Header>
<Detail>
  <VendorOrderLoop>
    <VendorOrder>
      <VendorOrderNum>100-123456</VendorOrderNum>
    </VendorOrder>
    <Terms>
      <TermsNetDays>30</TermsNetDays>
      <CurrencyCode>
        <AgencyQualCode>AX</AgencyQualCode>
        <TableNum>100</TableNum>
        <CodeValue>USD</CodeValue>
        <Desc>US DOLLARS</Desc>
      </CurrencyCode>
      <PaymentTerms>
        <Desc>1% 10 NET 30</Desc>
      </PaymentTerms>
    </Terms>
  </VendorOrderLoop>
  <VendorOrderLineLoop>
    <VendorOrderLine>
      <VendorOrderItem>01</VendorOrderItem>
      <VendorProdDesc>1" x 2 " SHINY WIDGETS</VendorProdDesc>
      <VendorItemQty>
        <MeasValue>1200</MeasValue>
      </VendorItemQty>
    </VendorOrderLine>
    <Pricing>
      <PriceUnitOfMeas>
        <AgencyQualCode>AX</AgencyQualCode>
        <TableNum>355</TableNum>
        <CodeValue>DZ</CodeValue>
      </PriceUnitOfMeas>
    </Pricing>
  </VendorOrderLineLoop>
</Detail>
```

The diagram consists of four rectangular boxes with a horizontal line extending from their left side to point to specific XML elements in the code above. The boxes are labeled: 'Vendor Order' (points to <VendorOrder>), 'Terms' (points to <Terms>), 'Vendor Order Line' (points to <VendorOrderLine>), and 'Pricing' (points to <Pricing>).



Example: Machine-Based Version (con't)

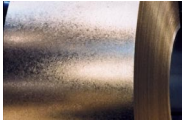
```
        <Desc>DOZEN</Desc>
      </PriceUnitOfMeas>
      <UnitPrice>1.00</UnitPrice>
      <Note>
        <NoteRefCode>
          <AgencyQualCode>AX</AgencyQualCode>
          <TableNum>363</TableNum>
          <CodeValue>PDS</CodeValue>
          <Desc>PRODUCT SPECIFICATION</Desc>
        </NoteRefCode>
        <Desc>PLEASE FURNISH STEEL SUPPLIER CORP HEREAFTER
("PURCHASER") IN ACCORDANCE WITH ALL CONDITIONS SPECIFIED IN THIS PURCHASE
ORDER INCLUDING THE NEXT PAGE HERETO AND ALL ATTACHMENTS HERETO, THE
FOLLOWING:</Desc>
      </Note>
    </Pricing>
  </VendorOrderLineLoop>
</VendorOrderLoop>
</Detail>
</DataArea>
</TransactionLevel>
</VendorOrderDoc>
```



Example: Text-Based Version

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE VendorOrderDoc SYSTEM "VendorOrder.dtd">
<VendorOrderDoc>
  <Interchange/>
  <TransactionLevel>
    <Control/>
    <DataArea>
      <Header>
        <ActionCode>
          <Desc>Send</Desc>
        </ActionCode>
        <ReportTransmissionCode>
          <Desc>Electronic Mail</Desc>
        </ReportTransmissionCode>
        <Partner PartnerType="Buyer">
          <Name>SUPPLIER STEEL CORPORATION</Name>
          <Addr1>1111 BIG STEEL ROAD</Addr1>
          <CityName>STEEL TOWN</CityName>
          <PostalCode>10001-0001</PostalCode>
          <CountryCode>
            <Desc>USA</Desc>
          </CountryCode>
        </Partner>
        <Partner PartnerType="Vendor">
          <Name>Steel Supplie Ltd</Name>
          <Addr1>1111 LITTLE STEEL ROAD</Addr1>
          <CityName>STEEL TOWN</CityName>
          <PostalCode>10001-0001</PostalCode>
          <CountryCode>
            <Desc>USA</Desc>
          </CountryCode>
        </Partner>
        <Partner PartnerType="BillTo">
          <Name>SUPPLIER STEEL CORPORATION</Name>
          <Addr1>COMPTRROLLER - ROOM 001</Addr1>
          <Addr2>1111 BIG STEEL ROAD</Addr2>
          <CityName>STEEL TOWN</CityName>
          <PostalCode>10001</PostalCode>
          <CountryCode>
            <CodeValue>USA</CodeValue>
          </CountryCode>
        </Partner>
        <TimeStamp TimeStampType="Vendor">
          <Date>2001..04.09</Date>
        </TimeStamp>
        <TimeStamp TimeStampType="Delivery">
          <Date>ASAP</Date>
        </TimeStamp>
      </Header>
    </DataArea>
  </TransactionLevel>
</Interchange>
</VendorOrderDoc>
```

The diagram consists of two callout boxes. The first callout box, labeled 'Partner Buyer', has a line pointing to the '<Partner PartnerType="Buyer">' element in the XML code. The second callout box, labeled 'Partner Vendor', has a line pointing to the '<Partner PartnerType="Vendor">' element in the XML code.



Example: Text-Based Version (con't)

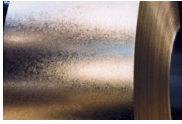
```
</TimeStamp>
<Note>
  <NoteRefCode>
    <AgencyQualCode>AX</AgencyQualCode>
    <TableNum>363</TableNum>
    <CodeValue>ADD</CodeValue>
    <Desc>ADDITIONAL INFORMATION</Desc>
  </NoteRefCode>
  <Desc>PLEASE FURNISH STEEL SUPPLIER CORP HEREAFTER ("PURCHASER")
IN ACCORDANCE WITH ALL CONDITIONS SPECIFIED IN THIS PURCHASE ORDER INCLUDING
THE NEXT PAGE HERETO AND ALL ATTACHMENTS HERETO, THE FOLLOWING:</Desc>
</Note>
</Header>
<Detail>
  <VendorOrderLoop>
    <VendorOrder>
      <VendorOrderNum>100-123456</VendorOrderNum>
    </VendorOrder>
    <Terms>
      <TermsNetDays>30</TermsNetDays>
      <CurrencyCode>
        <Desc>US DOLLARS</Desc>
      </CurrencyCode>
      <PaymentTerms>
        <Desc>1% 10 NET 30</Desc>
      </PaymentTerms>
    </Terms>
    <VendorOrderLineLoop>
      <VendorOrderLine>
        <VendorOrderItem>01</VendorOrderItem>
        <VendorProdDesc>1" x 2 " SHINY WIDGETS</VendorProdDesc>
        <VendorItemQty>
          <MeasValue>1200</MeasValue>
        </VendorItemQty>
      </VendorOrderLine>
      <Pricing>
        <PriceUnitOfMeas>
          <Desc>DOZEN</Desc>
        </PriceUnitOfMeas>
        <UnitPrice>1.00</UnitPrice>
      </Pricing>
      <Note>
        <NoteRefCode>
          <Desc>PRODUCT SPECIFICATION</Desc>
        </NoteRefCode>
        <Desc>PLEASE FURNISH STEEL SUPPLIER CORP HEREAFTER
("PURCHASER") IN ACCORDANCE WITH ALL CONDITIONS SPECIFIED IN THIS PURCHASE
ORDER INCLUDING THE NEXT PAGE HERETO AND ALL ATTACHMENTS HERETO, THE
FOLLOWING:</Desc>
      </Note>
    </VendorOrderLineLoop>
  </VendorOrderLoop>
</Detail>
```

Vendor Order

Terms

Vendor OrderLine

Pricing



Example: Text-Based Version (con't)

```
        </Pricing>  
      </VendorOrderLineLoop>  
    </VendorOrderLoop>  
  </Detail>  
</DataArea>  
</TransactionLevel>  
</VendorOrderDoc>
```



Appendices