

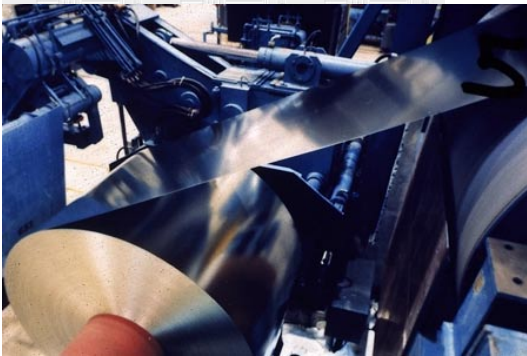
# isXML: Order Status

---

## An Industry Document Guideline for Metal Transactions

# American Iron & Steel Institute

*April 2001*



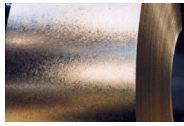
**DRAFT – Release 0.1**



*Published / Revised*

*5/2/2001*

*Printed*  
*05/03/2001*



## Table of Contents

<b>Topic</b>	<b>Page</b>
Background .....	1
Transaction Description and Usage .....	2
Class Relationships.....	3
Document Structure .....	4
isXML DTD .....	5
Examples .....	6
Example: Source Document .....	7
Example: Machine-Based Version .....	8
Example: Text-Based Version.....	12
Appendices .....	15



## Background

This document is intended to describe the ‘payload’ section of an XML-formatted ‘Order Status’ 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’.

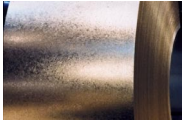
A number of sections in the guideline have been reserved for ‘examples’. The ‘source document’ is a representation of a paper document used to derive the example. The ‘machine version’ example is a fully extended version of the XML which would be used where sophisticated systems are communicating and 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 data content for reporting order status. The transaction can be used to report on the current status of an entire PO, selected items, or purchase orders for a specific customer or facility.



## Class Relationships

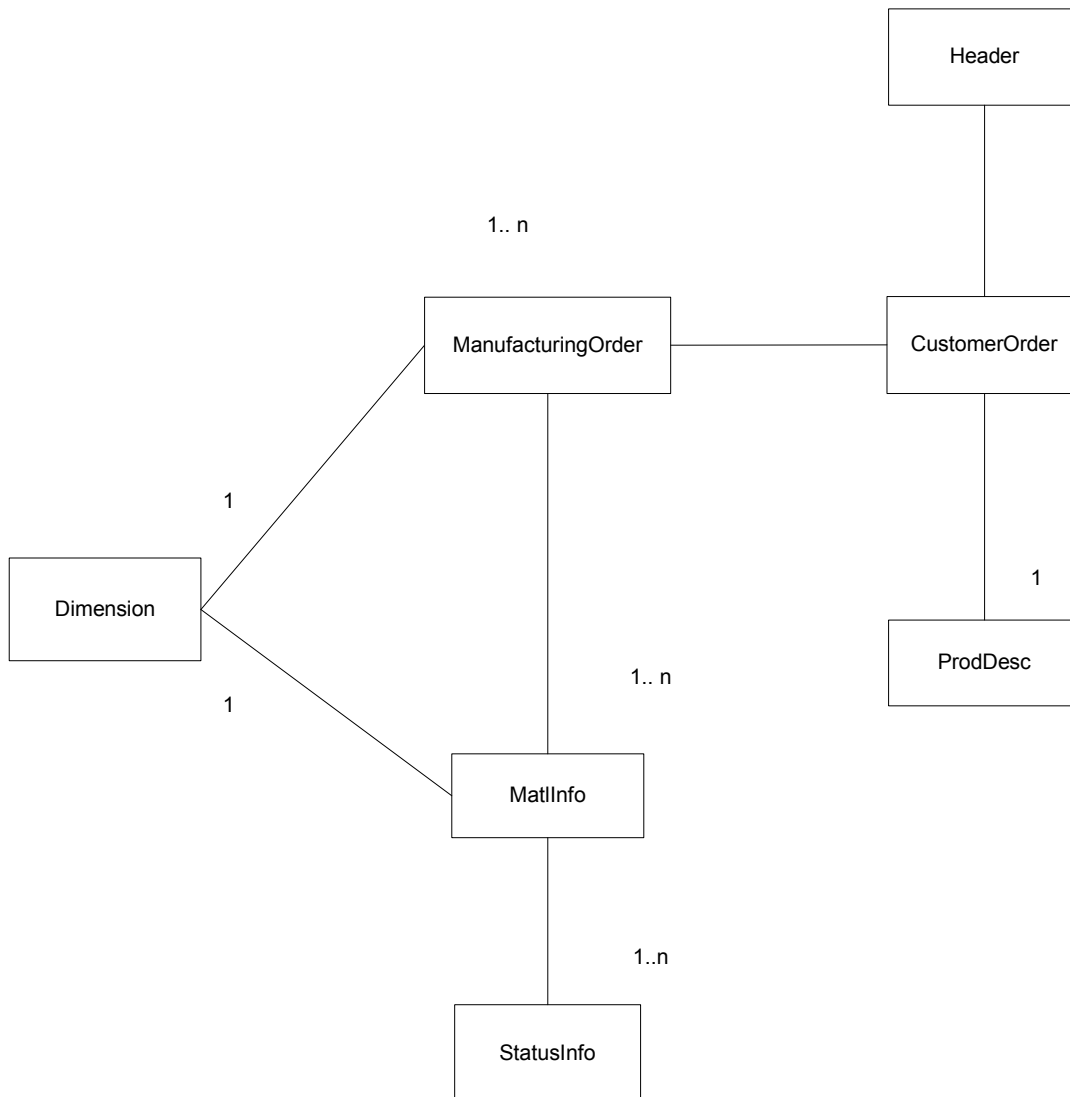
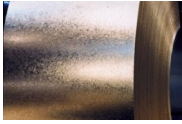


Figure 1



## Document Structure

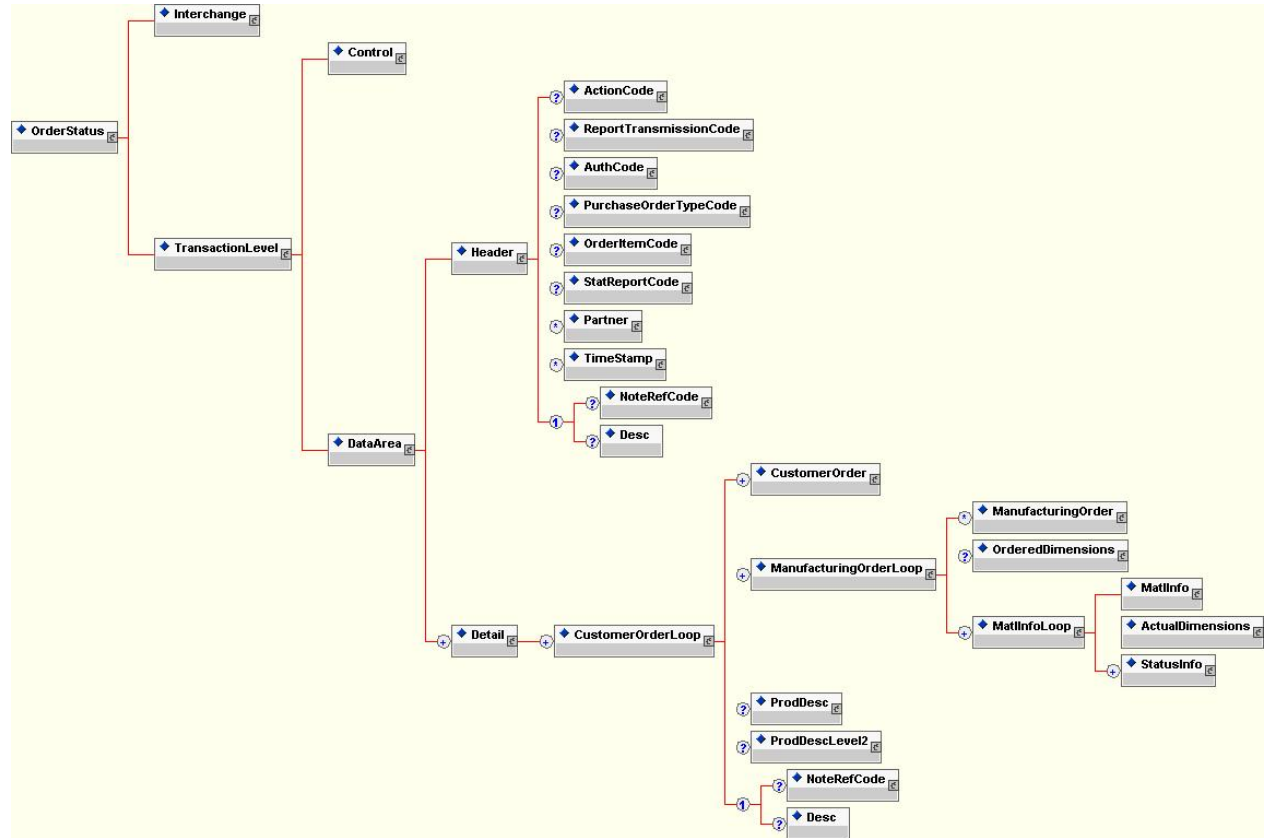


Figure 2



## isXML DTD

```
<?xml version="1.0" encoding="UTF-8"?>
<!ENTITY % classcommon.dtd SYSTEM "classcommon.dtd">
%classcommon.dtd;
<!ELEMENT OrderStatus (Interchange, TransactionLevel)>
<!-- Document Definition has envelope information and transaction information -->
<!ELEMENT TransactionLevel (Control, DataArea)>
<!ELEMENT DataArea (Header, Detail+)>
<!ELEMENT Detail (CustomerOrderLoop+)>
<!ELEMENT CustomerOrderLoop (CustomerOrder+, ManufacturingOrderLoop+, ProdDesc?,
ProdDescLevel2?, Note*)>
<!ELEMENT ManufacturingOrderLoop (ManufacturingOrder*, OrderedDimensions?, MatlInfoLoop+)>
<!ELEMENT OrderedDimensions (%Dimension;)>
<!ELEMENT MatlInfoLoop (MatlInfo, ActualDimensions, StatusInfo+)>
<!ELEMENT ActualDimensions (%Dimension;)>
```

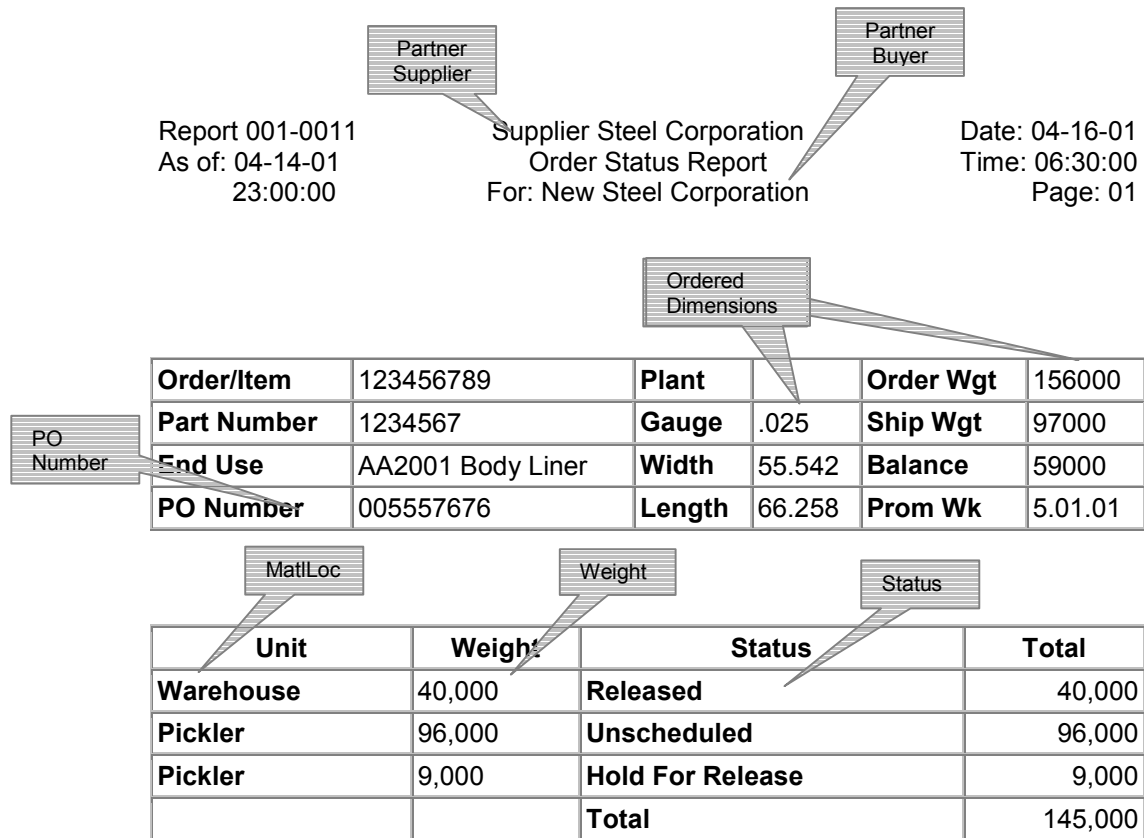


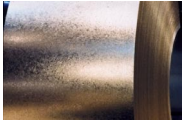
## Examples

The following are examples of the actual order status 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



**Example: Source Document**





## Example: Machine-Based Version

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE OrderStatus SYSTEM "OrderStatus.dtd">
<OrderStatus>
  <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>
      </Header>
      <Detail>
        <CustomerOrderLoop>
          <CustomerOrder>
            <PurchaseOrderNum>005557676</PurchaseOrderNum>
            <TimeStamp TimeStampType="Promise">
              <Date>2001.05.01</Date>
            </TimeStamp>
            <Partner PartnerType="Supplier">
              <Name>New Steel Corp</Name>
              <Addr1>Any Street</Addr1>
              <CityName>Any Town</CityName>
              <PostalCode>99999</PostalCode>
              <CountryCode>
                <Desc>USA</Desc>
              </CountryCode>
            </Partner>
            <Partner PartnerType="Buyer">
              <Name>Buyer of Steel Corp</Name>
              <IdCodeQual>
                <AgencyQualCode>AX</AgencyQualCode>
                <TableNum>66</TableNum>
                <CodeValue>91</CodeValue>
                <Desc>Assigned by Seller or Seller's Agent</Desc>
              </IdCodeQual>
              <IdCode>123456789</IdCode>
              <Addr1>Any Other Street</Addr1>
              <CityName>Any OtherTown</CityName>
              <PostalCode>12456</PostalCode>
            </Partner>
          </CustomerOrder>
        </CustomerOrderLoop>
      </Detail>
    </DataArea>
  </TransactionLevel>
</Interchange>
</OrderStatus>
```

PO Number

Partner Supplier

Partner Buyer



---

### Example: Machine-Based Version (con't)

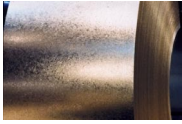
---

```
<CountryCode>
  <Desc>USA</Desc>
</CountryCode>
</Partner>
<PartName>1234567</PartName>
<EndUse>AA201 Body Liner</EndUse>
</CustomerOrder>
<ManufacturingOrderLoop>
  <OrderedDimensions>
    <Len>
      <MeasValue>66.258</MeasValue>
      <UnitOrBasisForMeasCode>
        <AgencyQualCode>AX</AgencyQualCode>
        <TableNum>355</TableNum>
        <CodeValue>LF</CodeValue>
        <Desc>LINEAL FEET</Desc>
      </UnitOrBasisForMeasCode>
    </Len>
    <Thk>
      <MeasValue>.025</MeasValue>
      <UnitOrBasisForMeasCode>
        <AgencyQualCode>AX</AgencyQualCode>
        <TableNum>355</TableNum>
        <CodeValue>IN</CodeValue>
        <Desc>INCH</Desc>
      </UnitOrBasisForMeasCode>
    </Thk>
    <Width>
      <MeasValue>.55.542</MeasValue>
      <UnitOrBasisForMeasCode>
        <AgencyQualCode>AX</AgencyQualCode>
        <TableNum>355</TableNum>
        <CodeValue>IN</CodeValue>
        <Desc>INCH</Desc>
      </UnitOrBasisForMeasCode>
    </Width>
    <Weight>
      <MeasValue>156000</MeasValue>
      <UnitOrBasisForMeasCode>
        <AgencyQualCode>AX</AgencyQualCode>
        <TableNum>355</TableNum>
        <CodeValue>LB</CodeValue>
        <Desc>POUNDS</Desc>
      </UnitOrBasisForMeasCode>
    </Weight>
  </OrderedDimensions>
  <MatlInfoLoop>
    <MatlInfo>
      <MatlLoc>Warehouse</MatlLoc>
    </MatlInfo>
  </MatlInfoLoop>
</ManufacturingOrderLoop>
</Order>
```

Ordered Dimensions

MatlLoc

Weight

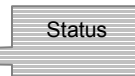


---

### Example: Machine-Based Version (con't)

---

```
<ActualDimensions>
  <Weight>
    <MeasValue>40,000</MeasValue>
    <UnitOrBasisForMeasCode>
      <AgencyQualCode>AX</AgencyQualCode>
      <TableNum>355</TableNum>
      <CodeValue>LB</CodeValue>
      <Desc>POUNDS</Desc>
    </UnitOrBasisForMeasCode>
  </Weight>
</ActualDimensions>
<StatusInfo>
  <Status StatusType="Processor">
    <AgencyQualCode>ST</AgencyQualCode>
    <TableNum>70</TableNum>
    <CodeValue>R</CodeValue>
    <Desc>RELEASED</Desc>
  </Status>
  <TimeStamp TimeStampType="ProcessorStatus">
    <Date>2001.4.17</Date>
  </TimeStamp>
</StatusInfo>
</MatlInfoLoop>
<MatlInfoLoop>
  <MatlInfo>
    <MatlLoc>Pickler</MatlLoc>
  </MatlInfo>
  <ActualDimensions>
    <Weight>
      <MeasValue>96,000</MeasValue>
      <UnitOrBasisForMeasCode>
        <AgencyQualCode>AX</AgencyQualCode>
        <TableNum>355</TableNum>
        <CodeValue>LB</CodeValue>
        <Desc>POUNDS</Desc>
      </UnitOrBasisForMeasCode>
    </Weight>
  </ActualDimensions>
  <StatusInfo>
    <Status StatusType="Processor">
      <AgencyQualCode>ST</AgencyQualCode>
      <TableNum>70</TableNum>
      <CodeValue/>
      <Desc>UNSCHEDULED</Desc>
    </Status>
    <TimeStamp TimeStampType="ProcessorStatus">
      <Date>2001.4.17</Date>
    </TimeStamp>
  </StatusInfo>
</MatlInfoLoop>
```



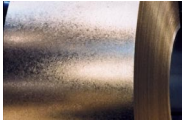


---

### Example: Machine-Based Version (con't)

---

```
<MatlInfoLoop>
  <MatlInfo>
    <MatlLoc>Pickler</MatlLoc>
  </MatlInfo>
  <ActualDimensions>
    <Weight>
      <MeasValue>9,000</MeasValue>
      <UnitOrBasisForMeasCode>
        <AgencyQualCode>AX</AgencyQualCode>
        <TableNum>355</TableNum>
        <CodeValue>LB</CodeValue>
        <Desc>POUNDS</Desc>
      </UnitOrBasisForMeasCode>
    </Weight>
  </ActualDimensions>
  <StatusInfo>
    <Status StatusType="Processor">
      <AgencyQualCode>ST</AgencyQualCode>
      <TableNum>70</TableNum>
      <CodeValue>3</CodeValue>
      <Desc>HOLD FOR RELEASE</Desc>
    </Status>
    <TimeStamp TimeStampType="ProcessorStatus">
      <Date>2001.4.17</Date>
    </TimeStamp>
  </StatusInfo>
</MatlInfoLoop>
</ManufacturingOrderLoop>
</CustomerOrderLoop>
</Detail>
</DataArea>
</TransactionLevel>
</OrderStatus>
```

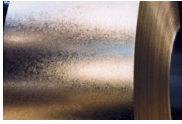


## Example: Text-Based Version

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE OrderStatus SYSTEM "OrderStatus.dtd">
<OrderStatus>
  <Interchange/>
  <TransactionLevel>
    <Control/>
    <DataArea>
      <Header>
        <ActionCode>
          <Desc>Send</Desc>
        </ActionCode>
        <ReportTransmissionCode>
          <Desc>Electronic Mail</Desc>
        </ReportTransmissionCode>
      </Header>
      <Detail>
        <CustomerOrderLoop>
          <CustomerOrder>
            <PurchaseOrderNum>005557676</PurchaseOrderNum>
            <TimeStamp TimeStampType="Promise">
              <Date>2001.05.01</Date>
            </TimeStamp>
            <Partner PartnerType="Supplier">
              <Name>New Steel Corp</Name>
              <Addr1>Any Street</Addr1>
              <CityName>Any Town</CityName>
              <PostalCode>99999</PostalCode>
              <CountryCode>
                <Desc>USA</Desc>
              </CountryCode>
            </Partner>
            <Partner PartnerType="Buyer">
              <Name>Buyer of Steel Corp</Name>
              <IdCodeQual>
                <Desc>Assigned by Seller or Seller's Agent</Desc>
              </IdCodeQual>
              <IdCode>123456789</IdCode>
              <Addr1>Any Other Street</Addr1>
              <CityName>Any OtherTown</CityName>
              <PostalCode>12456</PostalCode>
              <CountryCode>
                <Desc>USA</Desc>
              </CountryCode>
            </Partner>
            <PartName>1234567</PartName>
            <EndUse>AA201 Body Liner</EndUse>
          </CustomerOrder>
          <ManufacturingOrderLoop>
            <OrderedDimensions>
```

The diagram consists of four callout boxes with arrows pointing to specific elements in the XML code:

- PO Number**: Points to the `<PurchaseOrderNum>` element.
- Partner Supplier**: Points to the `<Partner PartnerType="Supplier">` element.
- Partner Buyer**: Points to the `<Partner PartnerType="Buyer">` element.
- Ordered Dimensions**: Points to the `<OrderedDimensions>` element.



---

### Example: Text-Based Version (con't)

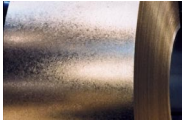
---

```
<Len>
  <MeasValue>66.258</MeasValue>
  <UnitOrBasisForMeasCode>
    <Desc>LINEAL FEET</Desc>
  </UnitOrBasisForMeasCode>
</Len>
<Thk>
  <MeasValue>.025</MeasValue>
  <UnitOrBasisForMeasCode>
    <Desc>INCH</Desc>
  </UnitOrBasisForMeasCode>
</Thk>
<Width>
  <MeasValue>.55.542</MeasValue>
  <UnitOrBasisForMeasCode>
    <Desc>INCH</Desc>
  </UnitOrBasisForMeasCode>
</Width>
<Weight>
  <MeasValue>156000</MeasValue>
  <UnitOrBasisForMeasCode>
    <Desc>POUNDS</Desc>
  </UnitOrBasisForMeasCode>
</Weight>
</OrderedDimensions>
<MatlInfoLoop>
  <MatlInfo>
    <MatlLoc>Warehouse</MatlLoc>
  </MatlInfo>
  <ActualDimensions>
    <Weight>
      <MeasValue>40,000</MeasValue>
      <UnitOrBasisForMeasCode>
        <Desc>POUNDS</Desc>
      </UnitOrBasisForMeasCode>
    </Weight>
  </ActualDimensions>
  <StatusInfo>
    <Status StatusType="Processor">
      <Desc>RELEASED</Desc>
    </Status>
    <TimeStamp TimeStampType="ProcessorStatus">
      <Date>2001.4.17</Date>
    </TimeStamp>
  </StatusInfo>
</MatlInfoLoop>
<MatlInfoLoop>
  <MatlInfo>
    <MatlLoc>Pickler</MatlLoc>
  </MatlInfo>
```

MatlLoc

Weight

Status



---

### Example: Text-Based Version (con't)

---

```
<ActualDimensions>
  <Weight>
    <MeasValue>96,000</MeasValue>
    <UnitOrBasisForMeasCode>
      <Desc>POUNDS</Desc>
    </UnitOrBasisForMeasCode>
  </Weight>
</ActualDimensions>
<StatusInfo>
  <Status StatusType="Processor">
    <Desc>UNSCHEDULED</Desc>
  </Status>
  <TimeStamp TimeStampType="ProcessorStatus">
    <Date>2001.4.17</Date>
  </TimeStamp>
</StatusInfo>
</MatlInfoLoop>
<MatlInfoLoop>
  <MatlInfo>
    <MatlLoc>Pickler</MatlLoc>
  </MatlInfo>
  <ActualDimensions>
    <Weight>
      <MeasValue>9,000</MeasValue>
      <UnitOrBasisForMeasCode>
        <Desc>POUNDS</Desc>
      </UnitOrBasisForMeasCode>
    </Weight>
  </ActualDimensions>
  <StatusInfo>
    <Status StatusType="Processor">
      <Desc>HOLD FOR RELEASE</Desc>
    </Status>
    <TimeStamp TimeStampType="ProcessorStatus">
      <Date>2001.4.17</Date>
    </TimeStamp>
  </StatusInfo>
</MatlInfoLoop>
</ManufacturingOrderLoop>
</CustomerOrderLoop>
</Detail>
</DataArea>
</TransactionLevel>
</OrderStatus>
```



## Appendices