

DISTRIBUTION SOLUTIONS INTERNATIONAL, Inc.

Systems Integration Guide



DISTRIBUTION SOLUTIONS INTERNATIONAL, Inc.

Systems Integration

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Version This guide addresses System Integration version 1.0. The System Integration Guide release date is January 2005. (1)

Content

- ABOUT THIS INTEGRATION GUIDE3**
 - Intended Audience*..... 3
- ABOUT DSI4**
- ORDER OVERVIEW.....5**
- TRANSMITTING AN ORDER TO DSI6**
 - Order File*..... 6
 - Order XML Schema v1.0*..... 7
 - How to Transmit the Order*..... 8
 - Order Summary*..... 9
- WEB SERVICES10**
 - Web Services Order Input XML Schema*..... 10
 - How to Transmit the Input XML*..... 11
- GET HELP11**
 - Contacting the Support Center*..... 11
 - Frequently Asked Questions*..... 13
- GLOSSARY14**
- APPENDIX A - LAST MILE ORDER DEFINITION15**
 - Element: Order*..... 15
 - Complex Type: Header*..... 16
 - Complex Type: Accessorial Need*..... 20
 - Complex Type: Address*..... 21
 - Complex Type: Contact*..... 23
 - Complex Type: Order Line*..... 24
 - Order in XML Format*..... 26
- APPENDIX B - WEB SERVICES INPUT REQUEST XML SCHEMA27**
 - Element: Order Request*..... 27
 - Element: Order Request by Date Range*..... 27
- APPENDIX C - WEB SERVICES OUTPUT XML SCHEMA30**
 - Element: Order Response*..... 30
 - Element: uxref (sub-element of Order)*..... 32
 - Element: Detail (sub-element of uxref)*..... 33
 - Element: Company (sub-element of uxref)*..... 34
 - Element: Consignee (sub-element of Order)*..... 35
 - Element: Address (Sub-element of Consignee)*..... 36
 - Element: Manifest (sub-element of Order)*..... 38
 - Element: Line Item (sub-element of Manifest)*..... 38
 - Element: Delivery (sub-element of Order)*..... 40
 - Element: Route (sub-element of Delivery)*..... 40
 - Element: Origin (sub-element of Route)*..... 41
 - Element: Destination (sub-element of Route)*..... 43
 - Element: Accessorial (sub-element of Order)*..... 44
 - Element: Event (sub-element of Accessorial)*..... 44

<i>Element: Client (sub-element of Order)</i>	46
<i>Element: Client Item (sub-element of Client)</i>	46
<i>Element: Status (sub-element of Order)</i>	47
<i>Element: Status Group (sub-element of Status)</i>	48
<i>Element: Status Event (sub-element of Status Group)</i>	49
<i>Element: Exceptions (sub-element of Order)</i>	50
<i>Element: Exception Item Type (sub-element of Exception)</i>	51
APPENDIX D - EVENTS	55
APPENDIX E - KEYID DEFINITIONS	57

About this Integration Guide

This integration guide has been designed to outline the technical requirements and the transmission methods for integrating data electronically with DSI systems.

Each section describes important concepts and includes illustrations and step-by-step instructions where applicable. Listed below is each of the major sections with a brief description.

Order Overview discusses the purpose and use of a DSI Order. In addition, this section reviews how an Order is used within DSI's Pickup & Delivery services.

Transmitting an Order to DSI outlines specific areas that are critical to successfully sending your Orders to DSI. This section addresses important information about document format, naming conventions, integration methods, and alert messages.

Web Services outlines specific areas which are critical to successfully requesting Order and Order status information via XML SOAP documents. This section addresses important information about document formatting and transmission.

Get Help reviews information that may be useful in the event you need assistance when integrating your data with DSI systems. Included in this section are Support information and FAQ's (Frequently Asked Questions), which assist you with avoiding common issues.

Glossary describes a number of common terms that are specific to integrating data with DSI systems. Since some terms may be unique to DSI and its related systems, this section has been included to assist you in better understanding DSI terminology.

Appendices illustrate the file formats and data definitions to assist you with integrating your data with DSI systems.

Intended Audience

This guide should serve as reference material for those Technical Resources that will participate in the preparation and transmission of data files to be integrated with DSI systems.

- Development Staff/Programmers
- Operations Staff

About DSI

Distribution Solutions International is an innovative, privately held corporation, which has been in operation since 1990 providing specialized supply chain management services to global corporations in highly regulated industries.

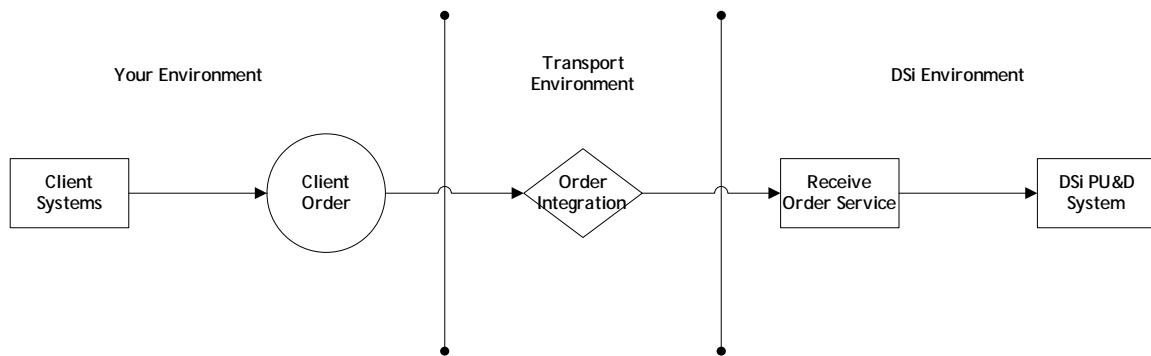
DSi embraces the responsibility to provide unique supply chain management solutions that leverages flexibility and efficiency. Through experience, DSI employs a proven methodology- *Plan, Execute, Verify* - which is driven by documented processes and procedures. DSI uses this methodology in combination with advanced and effective technologies to deliver lower costs and superior service, resulting in a supply chain partner that leads the industry in quality and performance. Ensuring a seamless and comprehensive integration between DSI and other systems is a top priority in customer satisfaction.

At DSI, our people, processes, and technology working in concert is our edge! We leverage the power of supply chain applications designed and created with simplicity in mind.

Order Overview

As in most cases, an Order is a formal request for goods and services. An Order is comprised of information that is critical to successfully routing the Order through the DSi Pickup & Delivery services.

Information such as, Origin and Destination, Weight and Dimensions, and Airline codes are included to name a few.



The illustration above displays a portion of the life cycle of an Order from the initial creation of the Order to the integration of the Order to the Pickup & Delivery system.

Once DSi has received the Order, it is processed based on the level of service being provided by DSi for that specific Order.

The processes include assigning a Bill of Lading (BOL) number to the Order, verifying the data submitted in the Order for completeness, and routing the Order to a qualified Vendor.

If the information is incomplete, a DSi Account Executive (AE) is notified. The AE will follow-up to obtain the required information before the Order can be processed further.

Transmitting an Order to DSI

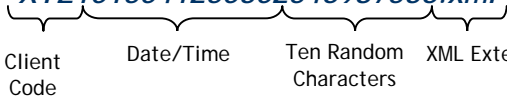
The procedure for sending an Order to DSI has been streamlined for simple and efficient processing. The information outlined in this section relates to the technical aspects of the file containing the Order and the actual transmission of the Order to DSI.

Order File

Before attempting to send an Order to DSI, it is important to understand the content of the Order and the format necessary to integrate the Order data into DSI systems. The data file can be defined programmatically using any number of XML tools such as, Visual Basic or Progress. The file itself must be created in XML (Extensible Markup Language) format with an XML extension. Without the proper extension, it will not be possible to integrate your Order into DSI automatically.

Each file can only contain a single Order; however, there is no limitation to the size of the file you send.

In addition to the file format, the file name has a specific structure. The file name differentiates one data file from another in the integration process. The file name should consist of the Client Code, Date/Time stamp (including seconds), and ten random characters. For example:

- ***XYZ1015041250302546987536.xml***


By using the unique file name, you will mitigate the risk of submitting files with duplicate file names. A file transmitted with a duplicate file name *cannot be integrated into DSI systems*.



Note the Client Code must be at least three characters (i.e. XYZ). Your DSI Account Executive provides your Client Code.



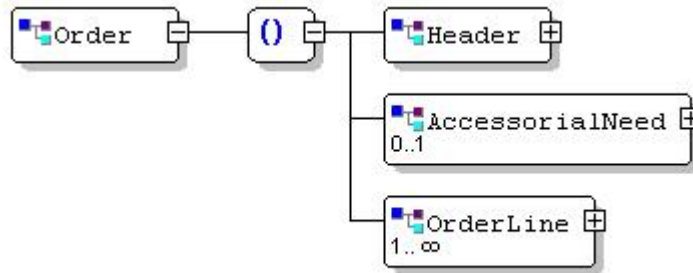
Note a .TMP extension **must** be used in place of the .XML extension during transmission via FTP. Rename the file extension to .XML upon successful transmission. See the *How to Transmit the Order- FTP Upload* section of this document for additional details.



Note the file name format does not apply to Orders that are sent to DSI via email since the order is included in the body of the email rather than as an attachment.

Order XML Schema v1.0

As mentioned previously, the file itself is an XML file that contains all the data for an Order. The foundation of the Order, or Element, is built around “Complex Types” that form the structure of the file. The major Complex Types are the Header, Accessorial Need, and Order Line as illustrated below.



Each Complex Type is comprised of various data attributes that contain the specific information for the Order itself. For example, the Header contains a number of pieces of information such as, Airline Code, Bill of Lading Number, Destination Address, and Order Type to name a few.

Refer to Appendix A at the end of this guide for a diagram that illustrates the layout of each Complex Type and the definition of the data attributes they contain.



Prior to sending Orders to DSI, it is recommended that you validate your Order format against the XML Schema outlined in Appendix A.

How to Transmit the Order

Once the Order file has been compiled using the appropriate file naming convention and XML Schema, you may transmit the file to DSI by sending the file via email or uploading the file to DSI's FTP server.

Determine the method that best suits your business environment. It is important to consider aspects of your network that may prevent the successful transmission of the Order. For instance, if you intend to transmit via email ensure the file size limit on outbound mail will not reject the email. Also, consider how your firewall may interfere with sending a file via email or uploading it to the DSI FTP site.

Notification of receipt for a file using either method takes place on an exception basis only. If an Order has been rejected because it is incomplete for instance, your DSI Account Executive will contact you to resolve the issue. Once resolved, the Order can be reprocessed by DSI systems.

Email

To transmit the Order to DSI via email, include the content of the Order file in the body of the email. Order files cannot be processed if they are sent as attachments to the email. The body of the email cannot contain any other data outside of the XML file. The content must be in plain text; HTML or Rich Text cannot be processed.

The email address that is used for transmitting Order files is available from your DSI Account Executive.



Note that neither the email, nor the transmission of the email, can be encrypted. In addition, Read Receipts are not issued from DSI during the integration process.



Note for security purposes, Auto-Notification of receiving Orders via email is not provided.

FTP Upload

The upload process to the DSI FTP site includes just a few minor steps. First, obtain the FTP server address, your authentication information (username and password) from your Account Executive. You will be required to authenticate to access the FTP site. Once access has been granted, you will be homed to the directory that has been designated for your organization.

Two sub-directories are provided for inbound and outbound files. Files being transmitted to DSI should be placed in the inbound directory. Files you may retrieve from DSI should be picked up from the outbound directory.

Once you have completed the logon process, file transfer and/or retrieval can be initiated. FTP transfer mode should be ASCII. Use the naming conventions specified in the

Transmitting an Order to DSI - Order File section of this document. It is important to note that neither the file nor the transmission of the upload of the file can be encrypted.



Note that during the actual transfer of the Order file, use a .TMP file extension. Upon successful transfer of the Order file, rename it with an .XML file extension. This insures that the file will not be consumed while it is in the process of being transferred, and will provide DSI with an indicator for incomplete file transfers.



Note for security purposes, Auto-Notification of receiving Orders via email is not provided.



Note that neither the Order file, nor the transmission of the upload of the file, can be encrypted.

Order Summary

The list below summarizes the technical requirements and other notable information for the data file and transmission methods discussed previously in this section.

- Each file must be in XML format
- Each file must have a XML file extension (.xml)
- There is no limitation to the size of the data file
- Each file should contain a single Order
- Each file should have a unique file name
- Each file name should consist of the Client Code, Date/Time stamp, and ten random characters
- Files may be transmitted via email or FTP upload
- Email address and FTP Server Address information are available from your DSI Account Executive

Web Services

DSi Web Services provide a method to request specific existing Order and Order Status information from DSi systems. This process employs an XML document (XML formatted request) from the Client, resulting in an XML document response from DSi Online Services.

The XML response for an Order request will include the complete set of data relating to the DSi Order. For example, line items, quantities, costs, accessorials, and other details are included in the response.

An Order Status request is handled in much the same way. DSi Online Services responds with specific information about events relating to an Order. For example, the person who initiated the order (an event) and the corresponding date and time are included in the XML Document. In addition, the status of the Order such as Created, Routed, or Delivered is also included in the XML response to provide a clear sense of how the Order has been processed thus far.

Refer to Appendix C for an explanation of each segment of the output XML document including illustrations.

Web Services Order Input XML Schema

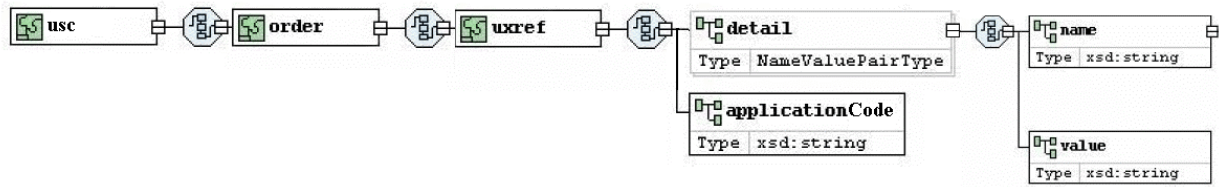
Before requesting Order information from DSi Online Services, it is important to understand the content of the Order and the XML format necessary to send a request to DSi. The request itself must be created in an XML¹ document and inserted into a standard XML SOAP envelope. The request document can be created programmatically or by using any number of XML tools such as MS Visual Studio or Stylus Studio.

The XML Web Services Description Language (WSDL)³ for DSi Online Services Order Web Services can be found at <http://onlineservices.dsii.com/Order/>.

¹ XML (Extensible Markup Language) - A simple, flexible text format derived from SGML (ISO 8879). For more information, visit: <http://www.w3.org/XML/>

² SOAP envelope - A construct that defines an overall framework for representing the contents of a SOAP message. For more information visit: <http://www.w3.org/TR/soap/>

³ WSDL - An XML format for describing network services as a set of endpoints operating on messages containing either document-oriented or procedure-oriented information. For more information, visit: <http://www.w3.org/TR/wsdl>



Refer to Appendix B and C at the end of this guide for a diagram that illustrates the layout of each Element and their corresponding Complex Types for the request and response documents. The tables also include definitions of the data attributes they contain.



Prior to sending a request to DSI, it is recommended that you validate your XML format against the XML Schema outlined in Appendix B and C.

How to Transmit the Input XML

Once your XML format has been validated against the XML schema found in this guide, it is possible to transmit your request. Use the link found below to send your XML input string.

Order Retrieval and Status Requests

<http://onlineservices.dsii.com/order/>

Get Help

In the event you encounter difficulty transmitting your Orders electronically to DSI, well trained support professionals are available to assist you in obtaining the help you need or providing solutions to common issues.

This section has been designed to provide some additional information that will help you answer questions regarding support and it includes Frequently Asked Questions (FAQ's) to assist you if you encounter unexpected events.

Contacting the Support Center

What information do you need to provide to DSI when you call?	Please provide the FTP Account information or Email address information with the file name, type of transport, transmission time, and any other relevant information.
What phone number should you call for support?	Please contact your DSI Account Executive at 800-968-4500.

What are the operating hours for the Support Center?	Support is available from 8 am to 5 pm EST.
I keep getting an alert message, what do I do?	Contact your Account Executive with specific information about the alert message.

Frequently Asked Questions

What is XML?	XML is the Extensible Markup Language. It is designed to improve the functionality of the Web by providing more flexible and adaptable information identification.
What method can I use to send my Orders to DSi?	You may send your file to DSi via email or upload the file to the DSi FTP site.
Will I get a reply once I have uploaded my file or send it via email?	Once the file has been transmitted to DSi, the contents of the file are integrated with DSi systems. You are notified on an exception basis only. In other words, you can assume the data has been integrated successfully, unless a DSi Account Executive contacts you.
What happens to the data once I have uploaded the file?	The data is verified for completeness and integrated into the DSi systems.
Can I test the upload to the DSi FTP site?	Yes, contact your Account Executive for the appropriate Server Address and additional instructions.
Our organization does not populate the same fields as defined in your XML schema. What do we do?	It is critical that all required fields are populated in the XML Schema. It may be possible to not populate non-required fields, but it is recommended that you contact DSi if it is not possible to populate the fields outlined in the XML Schema.
What version of the Order XML Schema is outlined in Appendix A?	The Order XML Schema described in this guide is version 1.0.

Glossary

Bill of Lading (BOL)

A document issued by a carrier to a shipper, listing and acknowledging receipt of goods for transport and specifying terms of delivery.

Data Attribute

A field or piece of data that is captured within the framework of the XML Schema.

Exception Notification

A notification sent to a DSI Account Executive when an attempt has been made to integrate the data with DSI systems, but the data fields are incorrect or incomplete.

Firewall

Any of a number of security schemes that prevent unauthorized users from gaining access to a computer network or that monitor transfers of information to and from the network.

FTP

A communications protocol that allows users to copy files between their local system and any system they can reach on the network.

LogiTrack

A DSI system used to generate and process Client Orders.

Order

A formal request for Goods or Services.

Proof of Delivery (POD)

An acknowledgement that goods have been successfully delivered to their destination.

Pickup & Delivery (PU&D)

The Order processing application employed by DSI.

Schema

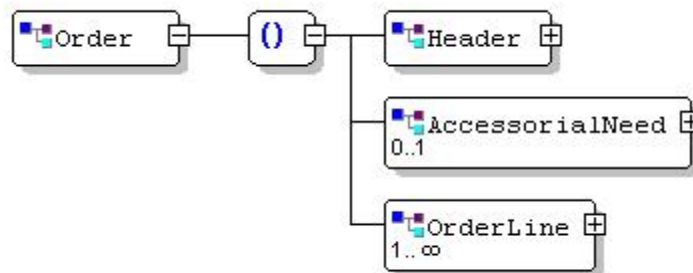
A design or format used to present information.

XML

XML is the Extensible Markup Language. It is designed to improve the functionality of the Web.

Appendix A - Last Mile Order Definition

Element: Order



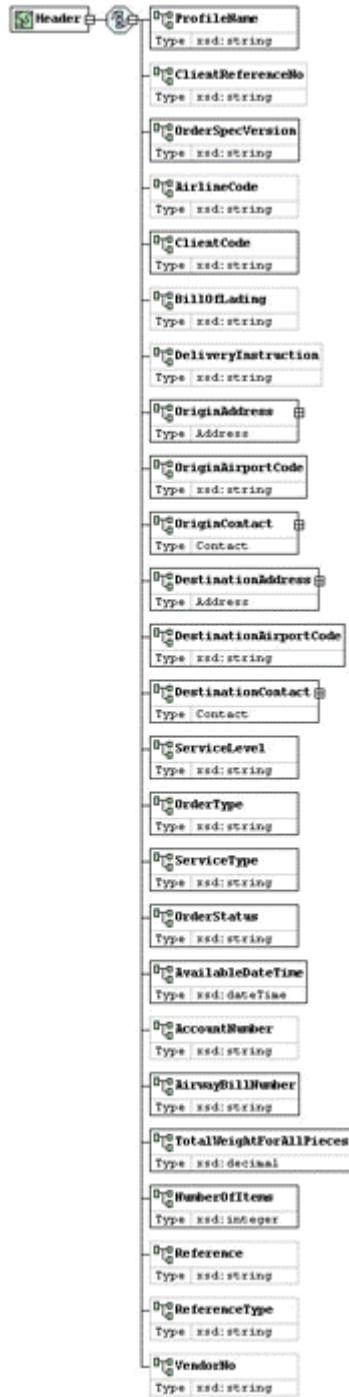
Definition Table - Order Element	
Complex Type	Definition
Header	The header is the base Complex Type and is used to capture data that relates to Airline Code, Bill of Lading, Order Type, and Account Number among others.
Accessorial Need	This Complex Type is used to capture data that relates to the Unit Type, Quantity, and Accessorial.
Order Line	This Complex Type is used to capture specific item related data such as, Pieces, Length, Width, and Height to name a few

XML Instance Representation - Order Element

```

<Order>
  <Header> Header </Header> [1]
  <AccessorialNeed> AccessorialNeed </AccessorialNeed> [0..1]
  <OrderLine> OrderLine </OrderLine> [1..*]
</Order>
  
```

Complex Type: Header



Definition Table - Header	
Complex Type	Definition

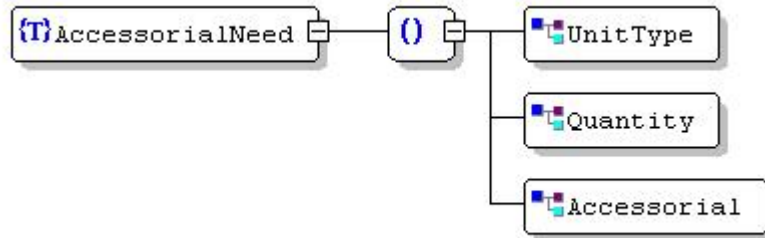
Profile Name	A unique set of parameters (or services) for a given client. <i>One client may have many profiles. Each profile is unique across systems.</i>
ClientReferenceNo	This is reserved for any internal identification needed by the client.
Order Specification Version	This field represents the version of the XML Schema being employed to format the Order file.
Airline Code	This field represents the actual Airline Code that applies to the Order.
Client Code	This field represents your DSi Client number. Typically, this value is alphanumeric and is at least three characters.
Bill of Lading	This field represents the initial Bill of Lading number for the Order.
Delivery Instruction	This field outlines specific instructions that are included to assist the Vendor in successfully delivering the goods to the destination.
Origin Address	This field represents the address of where the shipment of goods originates.
Origin Airport Code	This represents the standard FAA airport code for the airport where the shipment originates. For example, PHL is the airport code for Philadelphia International Airport.
Origin Contact	This field represents the Contact information of the Organization of where the shipment originates.
Destination Address	This field represents the address of where the shipment of goods is to be delivered.
Destination Airport Code	This represents the standard FAA airport code for the destination airport. For example, MCO is the airport code for Orlando International Airport.
Destination Contact	This field represents the Contact information of the Organization where the goods are to be delivered.
Service Level	This field represents the level for service for a specific Order. For example the service might be

	Pickup, Delivery, or a Site Inspection.
Order Type	This field represents a specific type of Order being sent to DSI. For example, Cargo and Luggage are types of DSI Orders.
Service Type	This field represents the general DSI service classification.
Order Status	This field represents the current status of the Order. For example, an Order may have a status of New, Updated, or Closed among others.
Available Date/Time	This field represents the date and time the Consignee is available to accept the shipment.
Account Number	This field represents the Client's Customer's account number
Airway Bill Number	This field represents the Airway Bill number for the specific Order.
Total Weight for all Pieces	This field represents the total weight of all the items included in the shipment.
Number of Items	This field represents the total number of items included in the shipment.
Reference	This field represents a reference number assigned by the Client.
Reference Type	This field represents what type of reference number is used. For example, a PO number or Airway Bill number.
Vendor Number	This field represents the Vendor number assigned by the Client. (this field is typically blank)

XML Instance Representation - Header Complex Type

```
<...>
  <ProfileName> xsd:string </ProfileName> [1]
  <ClientReferenceNo> xsd:string </ClientReferenceNo> [0..1]
  <OrderSpecVersion> xsd:string </OrderSpecVersion> [1]
  <AirlineCode> xsd:string </AirlineCode> [0..1]
  <ClientCode> xsd:string </ClientCode> [1]
  <BillOfLading> xsd:string </BillOfLading> [0..1]
  <DeliveryInstruction> xsd:string </DeliveryInstruction> [0..1]
  <OriginAddress> Address </OriginAddress> [1]
  <OriginAirportCode> xsd:string </OriginAirportCode> [1]
  <OriginContact> Contact </OriginContact> [1]
  <DestinationAddress> Address </DestinationAddress> [1]
  <DestinationAirportCode> xsd:string </DestinationAirportCode> [1]
  <DestinationContact> Contact </DestinationContact> [1]
  <ServiceLevel> xsd:string </ServiceLevel> [1]
  <OrderType> xsd:string </OrderType> [1]
  <ServiceType> xsd:string </ServiceType> [1]
  <OrderStatus> xsd:string </OrderStatus> [1]
  <AvailableDateTime> xsd:dateTime </AvailableDateTime> [1]
  <AccountNumber> xsd:string </AccountNumber> [0..1]
  <AirwayBillNumber> xsd:string </AirwayBillNumber> [1]
  <TotalWeightForAllPieces> xsd:decimal </TotalWeightForAllPieces> [1]
  <NumberOfItems> xsd:integer </NumberOfItems> [1]
  <Reference> xsd:string </Reference> [0..1]
  <ReferenceType> xsd:string </ReferenceType> [0..1]
  <VendorNo> xsd:string </VendorNo> [0..1]
</...>
```

Complex Type: Accessorial Need



Definition Table - Accessorial Need	
Complex Type	Definition
Unit Type	This field represents the Unit of Measure for the item(s) being shipped. For example, each, case, dozen, etc.
Quantity	This field represents the actual quantity of the item(s) being shipped based on the Unit Type.
Accessorial	This field represents a predetermined type of extra charge that may apply to the delivery.

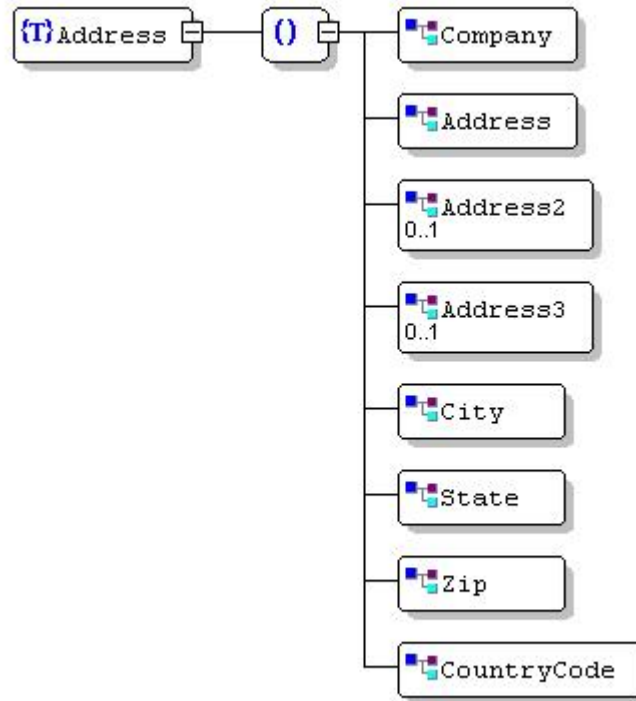
XML Instance Representation - Accessorial Need Complex Type

```

<...>
  <UnitType> xsd:string </UnitType> [1]
  <Quantity> xsd:integer </Quantity> [1]
  <Accessorial> xsd:string </Accessorial> [1]
</...>

```

Complex Type: Address



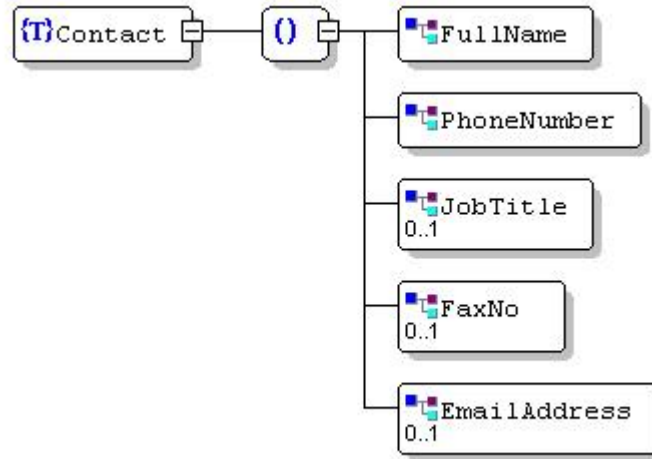
Definition Table - Address	
Complex Type	Definition
Company	This field represents the company name of the Company of origin or destination.
Address	This field represents the street address of the origin and destination of the shipment.
Address 2	This field represents additional street address information if necessary.
Address 3	This field represents additional street address information if necessary.
City	This field represents the City of origin and destination.
State	This field represents the State of origin and destination.

Definition Table - Address Cont.	
Zip	This field represents the Zip Code for the City of origin and destination.
Country Code	This field represents the Country Code for the City of origin and destination.

XML Instance Representation - Address Complex Type

```
<...>
  <Company> ... </Company> [1]
  <Address> xsd:string </Address> [1]
  <Address2> xsd:string </Address2> [0..1]
  <Address3> xsd:string </Address3> [0..1]
  <City> xsd:string </City> [1]
  <State> xsd:string </State> [1]
  <Zip> xsd:string </Zip> [1]
  <CountryCode> xsd:string </CountryCode> [1]
</...>
```

Complex Type: Contact



Definition Table - Contact	
Complex Type	Definition
Full Name	This field represents the name of the Contact at the origin of the shipment and at the destination.
Phone Number	This field represents the name of the phone number where the contact can be reached.
Job Title	This field represents the job title of the Contact.
Fax Number	This field represents the fax number of the Contact.
Email Address	This field represents the email address of the Contact.

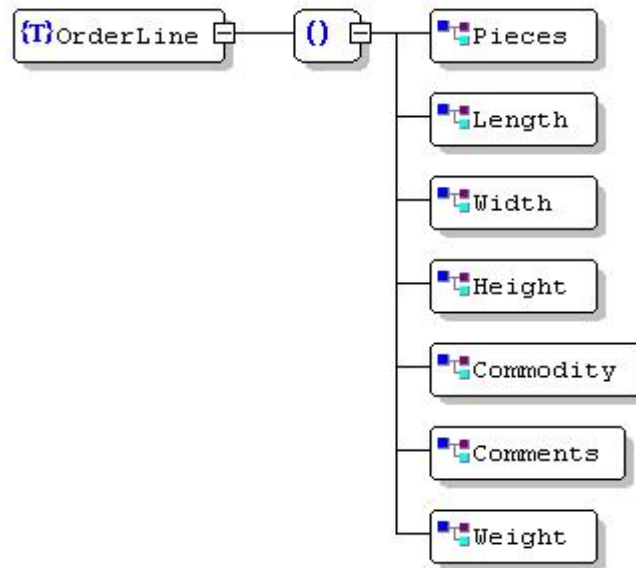
XML Instance Representation - Contact Complex Type

```

<...>
  <FullName> xsd:string </FullName> [1]
  <PhoneNumber> xsd:string </PhoneNumber> [1]
  <JobTitle> xsd:string </JobTitle> [0..1]
  <FaxNo> xsd:string </FaxNo> [0..1]
  <EmailAddress> xsd:string </EmailAddress> [0..1]
</...>

```

Complex Type: Order Line



Definition Table - Order Line	
Complex Type	Definition
Pieces	This field represents the specific number of pieces of a specific item included in the shipment.
Length	This field represents the length of the package for a specific item included in the shipment.
Width	This field represents the width of the package for a specific item included in the shipment.
Height	This field represents the height of the package for a specific item included in the shipment.
Commodity	This field describes the commodity being shipped (i.e., Fresh Flowers, Seafood, etc.)
Comments	This field represents any comments that should be included in the Order that relates to the specific item being shipped.
Weight	This field represents the weight of the specific item included in the shipment.

XML Instance Representation - Order Line Complex Type

```
<...>  
  <Pieces> xsd:integer </Pieces> [1]  
  <Length> xsd:decimal </Length> [1]  
  <Width> xsd:decimal </Width> [1]  
  <Height> xsd:decimal </Height> [1]  
  <Commodity> xsd:string </Commodity> [1]  
  <Comments> xsd:string </Comments> [1]  
  <Weight> xsd:decimal </Weight> [1]  
</...>
```

Order in XML Format

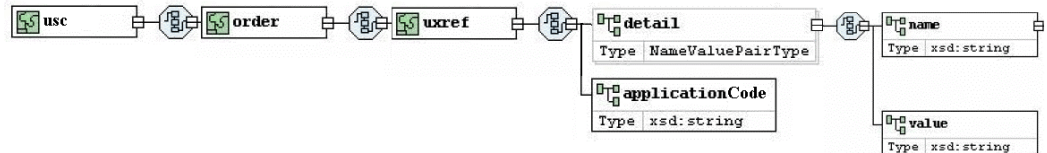
```

<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<Order>
- <Header>
  <ProfileName>ACME SPECIAL</ProfileName>
  <AirlineCode>XX</AirlineCode>
  <ClientCode>XXX001</ClientCode>
  <BillOfLading>57034106</BillOfLading>
  <DeliveryInstruction>PLEASE DELIVER UPON ARRIVAL THANKS+</DeliveryInstruction>
  <ServiceLevel>Standard</ServiceLevel>
  <OrderType>Cargo</OrderType>
  <ServiceType>Delivery</ServiceType>
  <OrderStatus>Received</OrderStatus>
  <AvailableDateTime>06/08/200507:02</AvailableDateTime>
  <AccountNumber>41051</AccountNumber>
  <AirwayBillNumber>57034106</AirwayBillNumber>
  <TotalWeightForAllPieces>190</TotalWeightForAllPieces>
  <NumberOfItems>2</NumberOfItems>
  <ReferenceType />
  <Reference />
  <ClientReferenceNo>Client 123</ClientReferenceNo>
  <VendorNo />
- <OriginAddress>
  <Company>Joe Cargo Inc.</Company>
  <Address>3400 S. Main</Address>
  <Address2 />
  <Address3 />
  <City>Austin</City>
  <State>TX</State>
  <Zip>78719</Zip>
  <Country>US</Country>
</OriginAddress>
  <OriginAirportCode>AUS</OriginAirportCode>
- <DestinationAddress>
  <Company>Joe Warehouse Inc.</Company>
  <Address>840 Washington Blvd.</Address>
  <Address2 />
  <Address3 />
  <City>Austin</City>
  <State>TX</State>
  <Zip>78721</Zip>
  <Country>US</Country>
</DestinationAddress>
  <DestinationAirportCode>AUS</DestinationAirportCode>
- <OriginContact>
  <FullName>Joe Cargo</FullName>
  <PhoneNumber>5125304150</PhoneNumber>
  <JobTitle>Jr. Sweeper</JobTitle>
  <FaxNo>5125304151</FaxNo>
  <EmailAddress>smith@cargo.com</EmailAddress>
</OriginContact>
- <DestinationContact>
  <FullName>Joe Public</FullName>
  <PhoneNumber>555121212</PhoneNumber>
  <JobTitle>Sr. Vice President</JobTitle>
  <FaxNo>555121213</FaxNo>
  <EmailAddress>joe@someother.com</EmailAddress>
</DestinationContact>
</Header>
- <AccessorialNeed>
  <Accessorial>OBH</Accessorial>
</AccessorialNeed>
- <OrderLine>
  <Pieces>2</Pieces>
  <Length>21</Length>
  <Width>21</Width>
  <Height>36</Height>
  <Weight>10</Weight>
  <Commodity>Fresh Flowers</Commodity>
</OrderLine>
</Order>

```

Appendix B - Web Services Input Request XML Schema

Element: Order Request



Definition Table - Order Element	
Complex Type	Definition
uxref	The Universal Cross Reference complex type allows DSI systems the ability to search by various order details. This complex type is used internally by DSI only.
Detail	This complex type represents <name><value> pairs that further describe information within the uxref complex type.

XML Instance Representation - Order Input Request

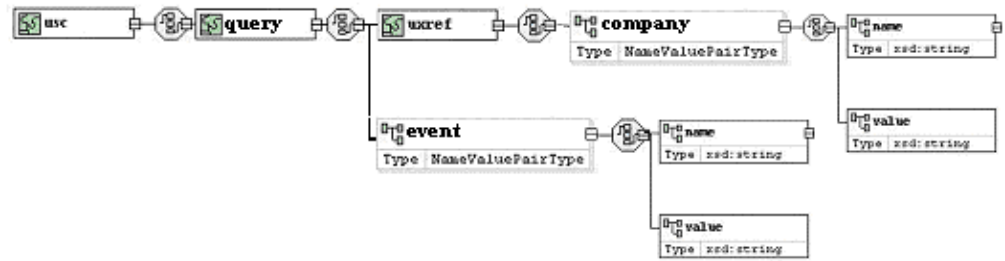
```

<usc>
  <order>
    <uxref>
      <detail>
        <name keyId='33' />
        <value>3068818</value>
      </detail>
    </uxref>
  </order>
</usc>

```

Element: Order Request by Date Range

This input format allows a user to request a range of orders and orders status related to a date range. Currently, date range is the only allowable query for multiple order retrieval.



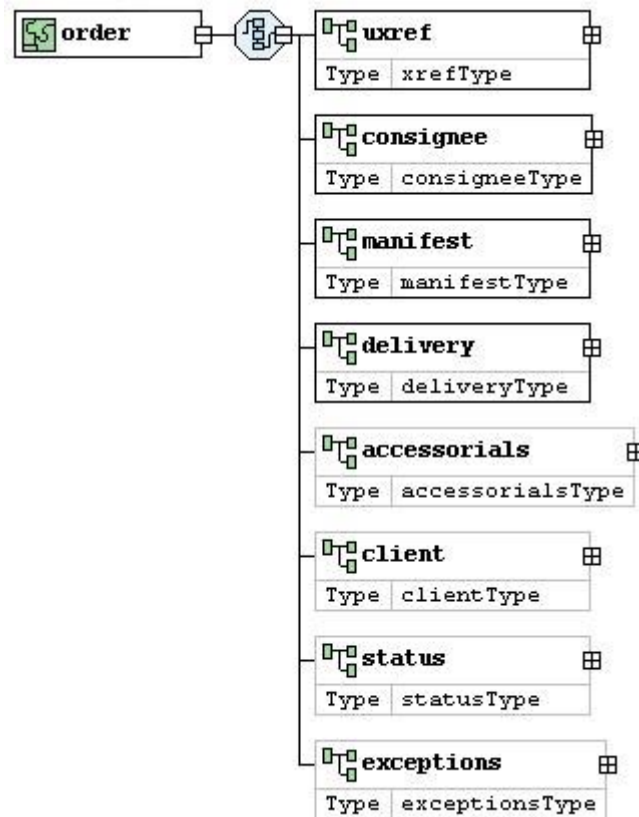
Definition Table - Order Element	
Complex Type	Definition
Company	<p>This complex type represents <name><value> pairs that further describe information within the event complex type.</p> <p>In this case, typeld is an attribute of name and corresponds to the type of order being requested. The value corresponds to the 6 character client code specific to DSI (please contact your AE to receive your 6 character DSI company code)</p>
Event	<p>This complex type represents <name><value> pairs that further describe information within the event complex type.</p> <p>Please pay special attention to the attributes listed below, as these are currently the only support query options available within the bulk order request.</p> <p>Start and End dates are in standard XML date/time+TimeZone format.</p>

XML Instance Representation - Order Input Request

```
<?xml version='1.0' ?>
<usc>
  <query>
    <uxref>
      <company>
        <name typeId="32"/>
        <value>XXX001</value>
      </company>
    </uxref>
    <event queryType="range">
      <name fieldname="eventDate"/>
      <value operator="gte">startdate</value>
      <value operator="lte">enddate</value>
    </event>
  </query>
</usc>
```

Appendix C - Web Services Output XML Schema

Element: Order Response



Definition Table - Order Element

Complex Type	Definition
uxref	The Universal Cross Reference complex type allows DSI systems the ability to search by various order details. This complex type is used internally by DSI only.
Consignee	The company or person goods are delivered to.
Manifest	This complex type represents a numeric value for the total amount of line items in the order.
Delivery	This complex type represents the origin and Destination address information.

Accessorials	This complex type represents a predetermined type of extra charge that may apply to the delivery.
Client	This complex type is not an active part of the XML schema. It serves as a placeholder for data that is unique to the order.
Status	This complex type represents a numeric value that indicates the status or level of completeness for the order.
Exceptions	This complex type is a processing error that contains a set of one or more exception items.

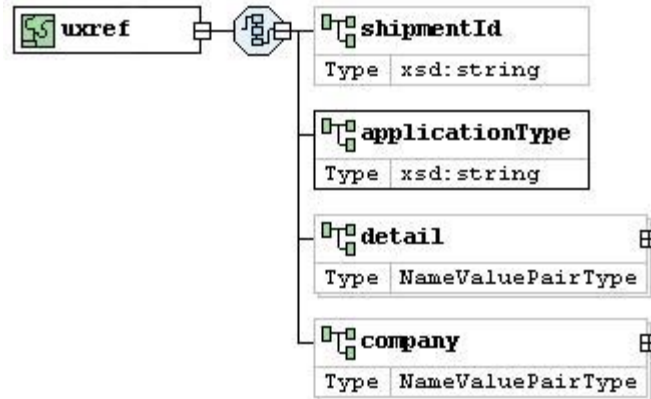
XML Instance Representation - Order Response

```

<order type="xsd:string">
  <uxref/> [1]
  <consignee/> [1]
  <manifest count="xsd:integer"/> [0...1]
  <delivery count="xsd:integer"/> [0...1]
  <accesssorials count="xsd:integer"/> [0...1]
  <client count="xsd:integer"/> [0...1]
  <status count="xsd:integer"/> [0...1]
  <exceptions count="xsd:integer"/> [0...1]
</order>

```

Element: uxref (sub-element of Order)



Definition Table - uxref Element

Complex Type	Definition
Shipment ID	This field represents a unique identifier for a specific shipment.
Application Code	This complex type is a numeric value that represents the application used to update events.
Detail	This complex type represents <name><value> pairs that further describe information within the uxref complex type.
Company	This complex type represents entities involved in the order.

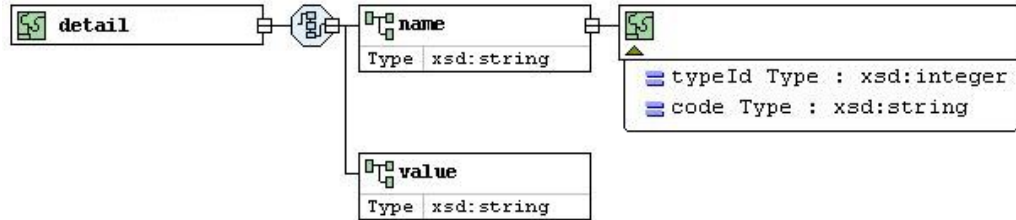
XML Instance Representation - uxref

```

<uxref>
  <shipmentId></shipmentId> [1]
  <applicationCode></applicationCode> [1]
  <company/> [0...n]
  <detail/> [0...n]
</uxref>

```

Element: Detail (sub-element of uxref)



Definition Table - uxref Element

Complex Type	Definition
Name	This complex type is used in conjunction with the Value complex type to describe an Element. The Name complex type contains attributes (Code and Key ID) that are context specific and provide alternate information to the value described within this complex type.
Value	This complex type is used in conjunction with the Name complex type to describe an Element. The value typically contains detailed results associated to the Name complex type.

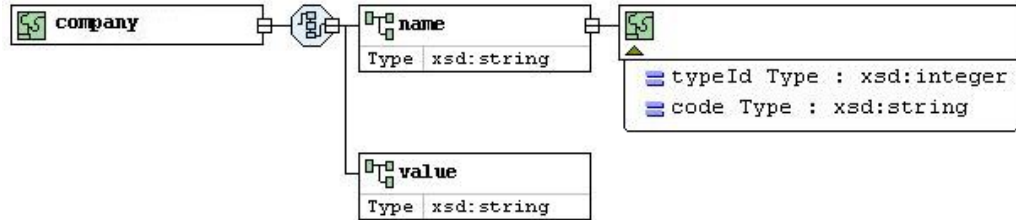
XML Instance Representation - detail

```

<detail>
  <name code="xsd:string" keyId="xsd:integer" > [1]
    xsd:string
  </name>
  <value>xsd:string</detail> [1]
</detail>

```

Element: Company (sub-element of uxref)



Definition Table - Company Element

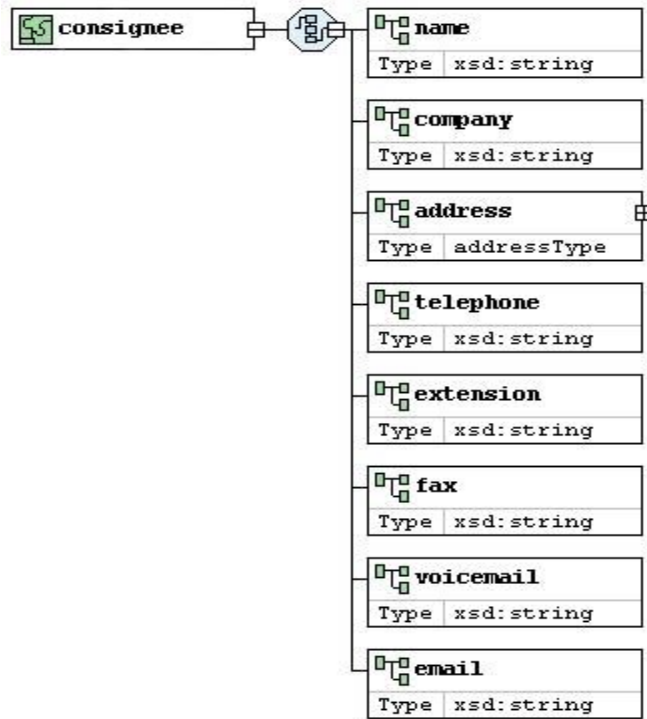
Complex Type	Definition
Name	This field represents a numeric value to indicate when the Company is either a Client or a Vendor.
Value	This field represents the DSI Client or Vendor number based on the Company name value.

XML Instance Representation - company

```

<company>
  <name code="xsd:string" keyId="xsd:integer"> [1]
    xsd:string
  </name>
  <value>xsd:string</detail> [1]
</company>
  
```

Element: Consignee (sub-element of Order)



Definition Table - Consignee Element	
Complex Type	Definition
Name	This field represents the name of the person to whom the goods are being shipped.
Company	This field represents the name of the company that is receiving the shipment of goods.
Address	This field represents the street address of the company.
Telephone/Extension	These fields represent the telephone number and extension of the consignee.
Fax	This field represents the fax number of the company.
Voicemail	This field represents the voicemail number of the consignee.
Email	This field represents the email address of the consignee.

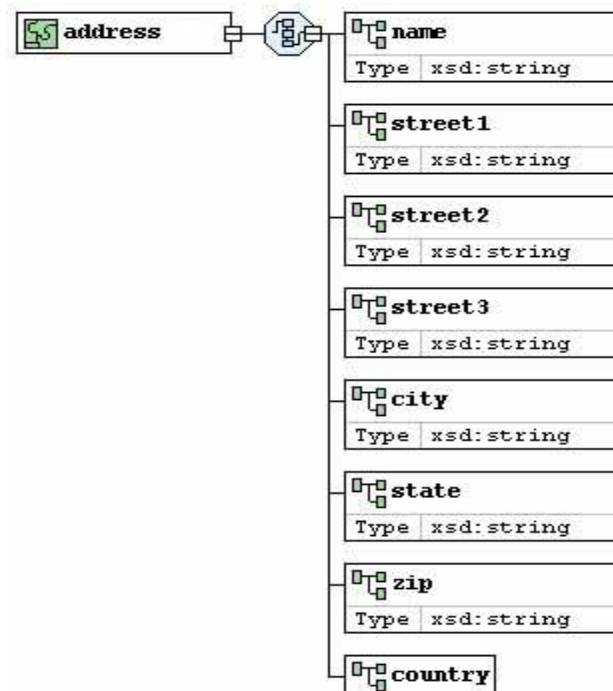
XML Instance Representation - consignee

```

<consignee>
  <name> xsd:string </name> [1]
  <company> xsd:string </company> [1]
  <address> </address> [1]
  <telephone> xsd:string </telephone> [1]
  <extension> xsd:string </extension> [0...1]
  <fax> xsd:string </fax> [0...1]
  <voicemail> xsd:string </voicemail> [0...1]
  <email> xsd:string </email> [0...1]
</consignee>

```

Element: Address (Sub-element of Consignee)



Definition Table - Address Element

Complex Type	Definition
Name	This field represents a unique identifier for the entire address.
Street 1	This field represents the street address for the Consignee.

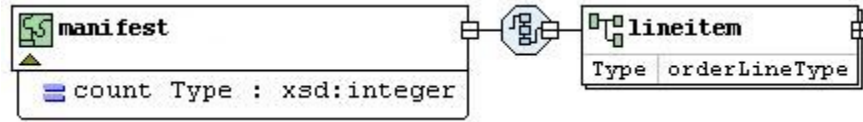
Street 2	This field represents additional street address information if necessary.
Street 3	This field represents additional street address information if necessary.
City	This field represents the City of the Consignee.
State	This field represents the State of the Consignee.
Zip	This field represents the Zip code of the Consignee.
Country	This field represents the Country of the Consignee.

```

<address>
  <company> xsd:string </company> [1]
  <name> xsd:string </name> [1]
  <street1> xsd:string </street1> [1]
  <street2> xsd:string </street2> [0...1]
  <street3> xsd:string </street3> [0...1]
  <city> xsd:string </city> [1]
  <state> xsd:string </state> [1]
  <zip> xsd:string </zip> [1]
  <country> xsd:string </country> [1]
</address>

```

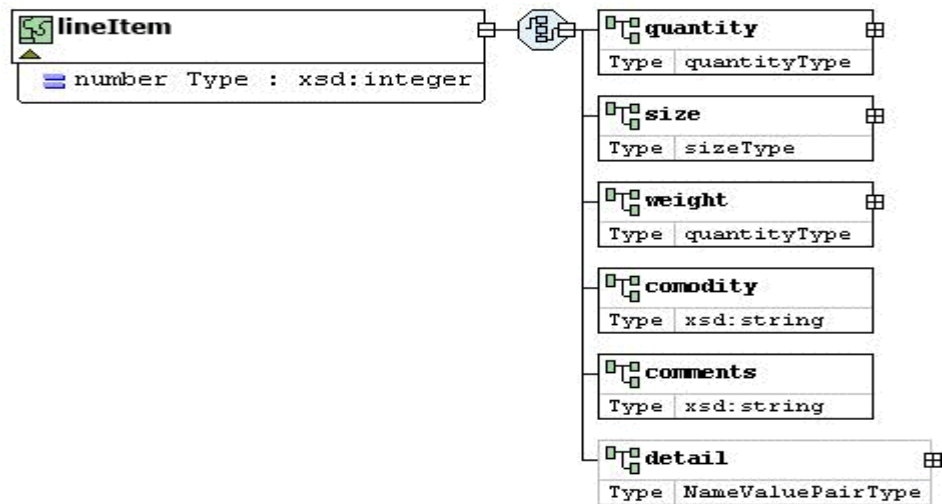
Element: Manifest (sub-element of Order)



Definition Table - Manifest Element	
Complex Type	Definition
Line Item	This complex type represents the total number of lines for this manifest.

```
<manifest count="xsd:integer">
  <lineitem number="xsd:integer"></lineitem> [1..n]
</manifest>
```

Element: Line Item (sub-element of Manifest)



Definition Table - Line Item Element	
Complex Type	Definition
Quantity	This complex type represents the actual number of packages being shipped.
Size	This complex type represents the size of each package being shipped.

Weight	This complex type represents the weight of each package being shipped.
Commodity	This complex type represents a description of what the package contains.
Comments	This complex type contains any comments related to an individual line on the order.
Detail	This complex type represents the type of record the order is. For example, the record may be an Air bill or a Bill of Lading.

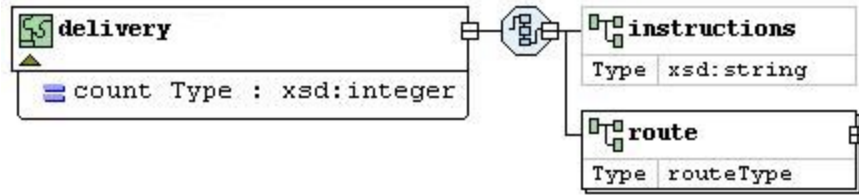
XML Instance Representation - manifest lineitem

```

<lineitem number="xsd:integer">
  <quantity amount="xsd:decimal" unit="xsd:string"/> [1]
  <size [1]
    length="xsd:decimal" width="xsd:decimal"
    height="xsd:decimal" unit="xsd:string"/>
  <weight amount="xsd:decimal" unit="xsd:string"/> [1]
  <commodity>xsd:string</commodity> [1]
  <comments>xsd:string</comments> [0...1]
  <detail/> [0...n]
</lineitem>

```

Element: Delivery (sub-element of Order)



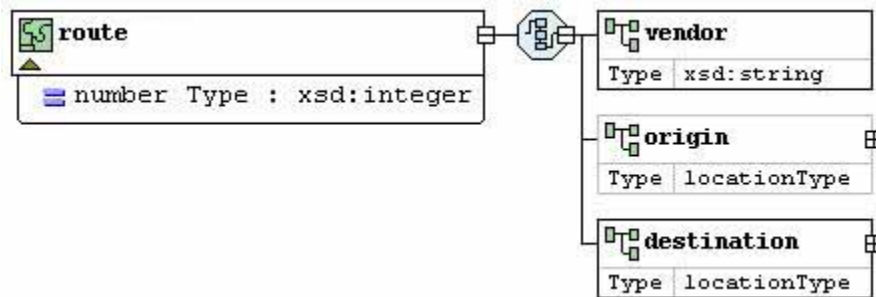
Definition Table - Delivery Element	
Complex Type	Definition
Instructions	This complex type represents any instructions that are specific to the delivery of the goods for this Order.
Route	This complex type is a numeric value that indicates the type of route. For example, Door to Door, Airport to Door, or Airport to Airport.

XML Instance Representation - delivery

```

<delivery count="xsd:integer">
  <instructions> xsd:string </instructions> [1]
  <route number="xsd:integer"></route> [1...n]
</delivery>
    
```

Element: Route (sub-element of Delivery)



Definition Table - Route Element	
Complex Type	Definition
Vendor	This field represents the Vendor who is making the

	delivery.
Origin	This field represents the location where the delivery begins.
Destination	This field represents the final location where the delivery is completed.

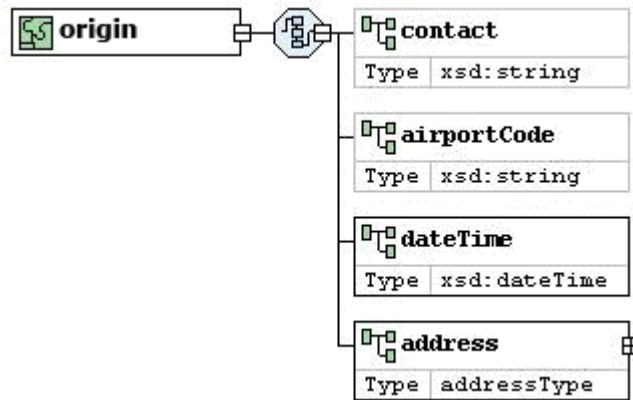
XML Instance Representation - delivery route

```

<route number="xsd:integer">
  <vendor> xsd:string </vendor> [1]
  <origin/> [1]
  <destination/> [1]
</route>

```

Element: Origin (sub-element of Route)



Definition Table - Origin Element

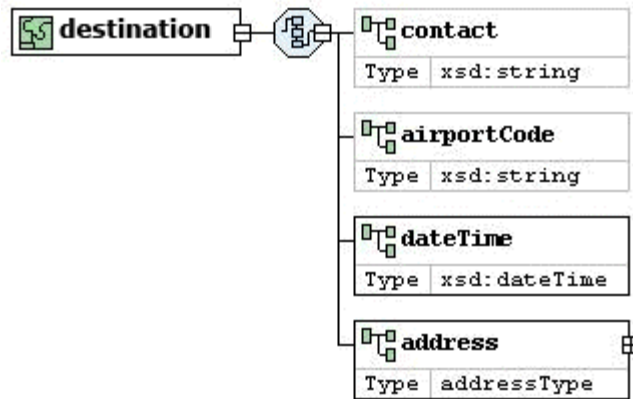
Complex Type	Definition
Contact	This complex type represents the name of the person who should be contacted at the point of origin.
Airport Code	This complex type represents the airport code for point of origin. For example, ORD is the airport code for Chicago's O'Hare International airport.
Date and Time	This complex type represents the date and time the package(s) is available for pickup.
Address	This complex type represents the address of origin for

	the delivery.
--	---------------

XML Instance Representation - route origin

```
<origin>
  <contact> xsd:string </contact> [1]
  <airportCode> xsd:string </airportCode> [0...1]
  <airlineCode>xsd:string</airlineCode> [0...1]
  <dateTime> xsd:dateTime </dateTime> [1]
  <address/> [1]
</origin>
```

Element: Destination (sub-element of Route)



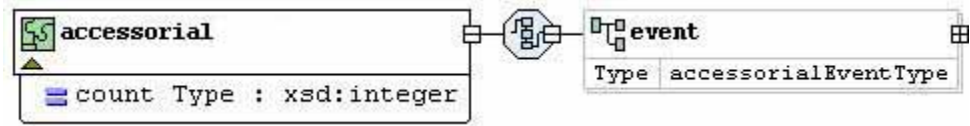
Definition Table - Route Element	
Complex Type	Definition
Contact	This complex type represents the name of the person who should be contacted at the final destination.
Airport Code	This complex type represents the airport code for the destination. For example, ORD is the airport code for Chicago's O'Hare International airport.
Date and Time	This complex type represents the date and time the package(s) was delivered for this portion of the route.
Address	This complex type represents the address of the final destination for this portion of the route.

XML Instance Representation - route destination

```

<destination>
  <contact> xsd:string </contact> [1]
  <airportCode> xsd:string </airportCode> [0...1]
  <airlineCode>xsd:string</airlineCode> [0...1]
  <dateTime> xsd:dateTime </dateTime> [1]
  <address/> [1]
</destination>
  
```

Element: Accessorial (sub-element of Order)

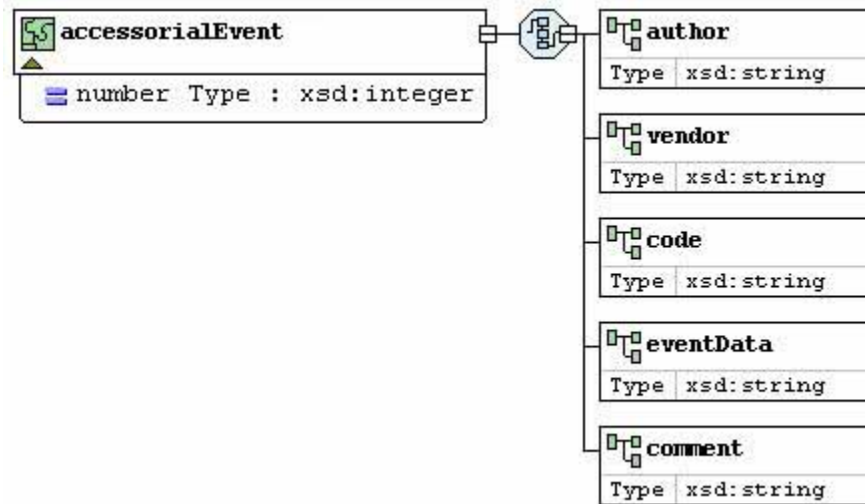


Definition Table - Accessorial Element	
Complex Type	Definition
Event	This complex type is a numeric value that represents the sequence of the event relating to accessorial charges.

XML Instance Representation - accessorials

```
<accessorials count="xsd:integer">
  <event number="xsd:integer"></accessorialEvent > [1...n]
</accessorials>
```

Element: Event (sub-element of Accessorial)



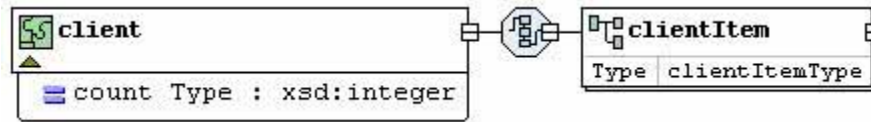
Definition Table - Event Element	
Complex Type	Definition
Author	This complex type represents the person who created

	the accessorial entry.
Vendor	This field represents the Vendor who is charging the client for additional delivery services.
Code	This complex type is a numeric value that represents the type of accessorial that the Event Element is related to.
Event Data	This complex type represents the currency amount for the accessorial that the Event Element is related to.
Comment	This field represents any comments that are associated with the Accessorial.

XML Instance Representation - accessorial event

```
<event number="xsd:integer">  
  <author> xsd:string </author>  
  <vendor> xsd:string </vendor>  
  <code> xsd:string </code>  
  <eventData> xsd:string <eventData/>  
  <comment> xsd:string </comment >  
</event >
```

Element: Client (sub-element of Order)

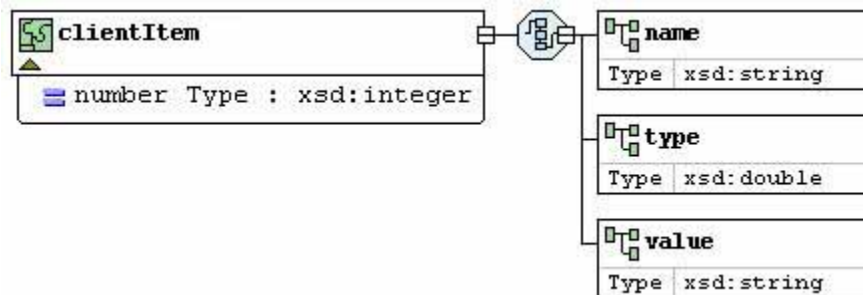


Definition Table - Client Element	
Complex Type	Definition
Client Item	This complex type is not an active part of the XML schema. It serves as a placeholder for data that is unique to the order.

XML Instance Representation - accessorial event

```
<client count="xsd:integer">
  <clientItem number="xsd:integer"/> [1...n]
</client>
```

Element: Client Item (sub-element of Client)



Definition Table - Client Item Element	
Complex Type	Definition
Name	This complex type is currently undefined.
Type	This complex type is currently undefined.
Value	This complex type is currently undefined.

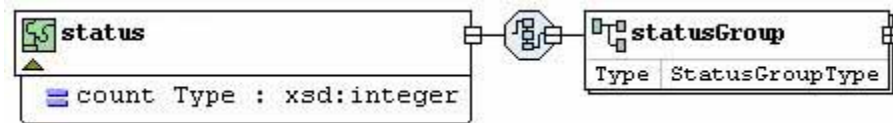
XML Instance Representation - Client Item

```

<clientItem number="xsd:integer">
  <name> xsd:string </name> [1]
  <type> xsd:string </type> [1]
  <value> xsd:string </value> [1]
</clientItem>

```

Element: Status (sub-element of Order)



Definition Table - Status Element

Complex Type	Definition
Status Group	This complex type is a numeric value that indicates a grouping of similar events. For example, Prepared and Order Delivered are status groups.

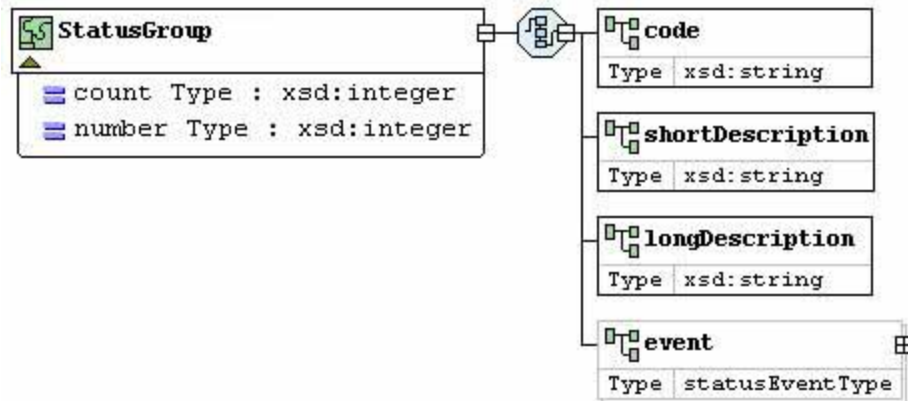
XML Instance Representation - status

```

<status count="xsd:integer">
  <statusGroup number='n' count='m' /> [1...n]
</status>

```

Element: Status Group (sub-element of Status)



Definition Table - Status Group Element

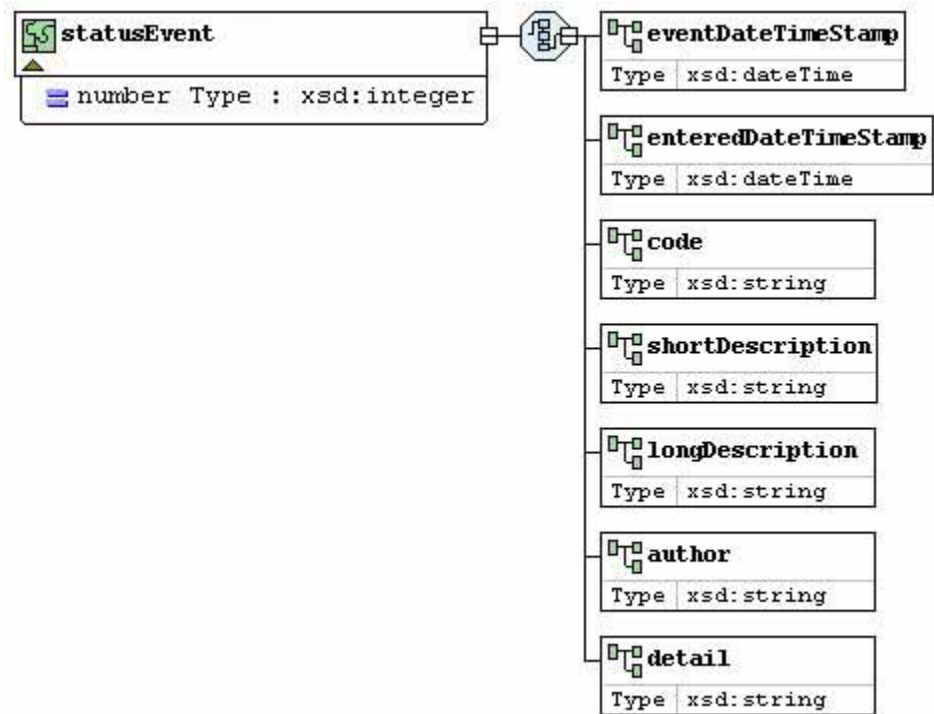
Complex Type	Definition
Code	This complex type is a numeric value that indicates an event code.
Short Description	This complex type is a text value that describes the event.
Long Description	This complex type is a text value that describes the event.
Event	This complex type is an action that is taken for an order. For example, Order Created, Order Received, and Order Delivered are events.

XML Instance Representation - status

```

<statusGroup number='xsd:integer' count='xsd:integer' >
  <code> xs:string </code> [1]
  <shortDescription> xs:string </shortDescription> [1]
  <longDescription> xs:string </longDescription> [1]
  <statusEvent number='1' /> [1...n]
</statusGroup>
    
```

Element: Status Event (sub-element of Status Group)



Definition Table - Event Element	
Complex Type	Definition
Event Date and Time	This complex type is the date and time the user entered information.
Entered Date and Time	This complex type is the system date and time the order was entered into the system
Code	This complex type is a numeric value that initiates which type of event has taken place.
Short Description	This complex type is a text value that describes the event.

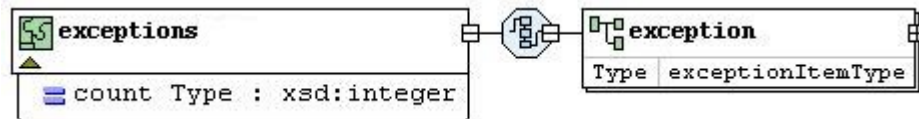
Long Description	This complex type is a text value that describes the event.
Author	This complex type represents the person who created the event.
Detail	This complex type represents <name><value> pairs that further describe information within the Event Element complex type.

XML Instance Representation - statusEvent

```

<statusEvent number="xsd:integer">
  <eventDateTimeStamp>xsd:dateTime</eventDateTimeStamp>      [1]
  <enteredDateTimeStamp>xsd:dateTime</enteredDateTimeStamp> [1]
  <code>xsd:string</code>                                       [1]
  <shortDescription>xsd:string</shortDescription>              [1]
  <longDescription>xsd:string</longDescription>                [0...1]
  <author>xsd:string</author>                                   [1]
  <detail/>                                                       [0...n]
</statusEvent >
    
```

Element: Exceptions (sub-element of Order)



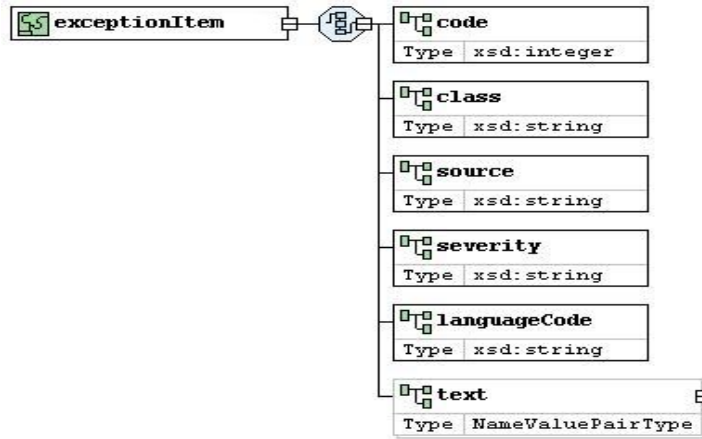
Complex Type	Definition
Exception	This complex type is a processing error that contains a set of one or more exception items.

XML Instance Representation - exceptions

```

<exceptions count="xsd:integer">
  <languageCode> xzd:string </languageCode> [1]
  <exceptionItem number="xsd:integer"/> [1..n]
</exceptions>
    
```

Element: Exception Item Type (sub-element of Exception)



Definition Table - Exception Item Type Element	
Complex Type	Definition
Code	This complex type is a numeric value that represents a type of exception.
Class	This complex type is a numeric value that represents a class (specific group) of exceptions.
Source	This complex type is a numeric value that represents the exception source. The source is an uxref, order, exception, event, log, or lookup service.
Severity	This complex type is a numeric value that represents the severity of the exception. For example, the exception might be a warning, an error, or even fatal.
Language Code	This complex type represents the language any descriptive text is displayed in. Languages include English, French, and Spanish.
Text	This complex type contains the short and long description values for the exception.

XML Instance Representation - exceptions

```
<exceptionItem number=xsd:integer code=xsd:string>
  <code> xsd:string </code> [1]
  <class> xsd:string </class> [1]
  <source> xsd:string </source> [1]
  <severity> xsd:string </severity> [1]
  <languageCode> xsd:string </languageCode> [1]
  <text> [1..n]
    <name> xsd:string </name>
    <value> xsd:string </value>
  </text>
</exceptionItem>
```

XML Instance Representation - Order Output

```

<?xml version="1.0" encoding="UTF-8" ?>
- <usc>
- <order>
- <uxref>
  <shipmentId>AF000034940</shipmentId>
  <applicationCode>1</applicationCode>
- <detail>
  <name code="BL" keyId="33">BolNo</name>
  <value>123456</value>
</detail>
- <detail>
  <name code="OI" keyId="37">ORDER ID</name>
  <value>1234-12345-1</value>
</detail>
- <company>
  <name code="VN" keyId="29">VENDOR</name>
  <value>12345</value>
</company>
- <company>
  <name code="CL" keyId="32">ClientNo</name>
  <value>XXX001</value>
</company>
</uxref>
- <consignee>
  <name>Consignee, Joe</name>
  <company>Your Company</company>
  <telephone>5558826838</telephone>
  <voicemail>63131</voicemail>
  <email>joe.consignee@yourcompany.com</email>
- <address>
  <name>Consignee, Joe</name>
  <street1>Lock It</street1>
  <street2>754 SYLVANIA AVE</street2>
  <city>SYLVANIA</city>
  <state>OH</state>
  <zip>43560</zip>
</address>
</consignee>
- <manifest count="4">
- <lineitem number="1">
  <quantity unit="C" amount="3" />
</lineitem>
- <lineitem number="2">
  <quantity unit="C" amount="1" />
</lineitem>
- <lineitem number="3">
  <quantity unit="C" amount="1" />
</lineitem>
- <lineitem number="4">
  <quantity unit="C" amount="1" />
</lineitem>
</manifest>

```

```

- <delivery>
- <route number="1">
  <vendor>12345</vendor>
- <destination>
  <dateTime>2005-08-08T00:00:00.000-04:00</dateTime>
- <address>
  <name>Consignee, Joe</name>
  <street1>Lock It</street1>
  <street2>754 SYLVANIA AVE</street2>
  <city>SYLVANIA</city>
  <state>OH</state>
  <zip>43560</zip>
</address>
</destination>
</route>
</delivery>
- <accessorials count="1">
- <event number="1">
  <vendor>12345</vendor>
  <code>DZY</code>
  <eventData>24.00</eventData>
  <comment>PRE-RATED WT RANGE:31@26-50= 24 ZN=A ZIP 43560 ZN A</comment>
</event>
</accessorials>
- <status>
- <statusGroup number="1">
  <statusCode code="PRE" keyId="39">Prepare</statusCode>
- <statusEvent number="1">
  <code code="CRE" keyId="40">Create</code>
  <author>bgobject</author>
  <eventDateTimeStamp>2005-08-08T15:06:18-04:00</eventDateTimeStamp>
  <enterDateTimeStamp>2005-08-08T15:06:18-04:00</enterDateTimeStamp>
  <shortDescription>Order create.</shortDescription>
  <longDescription>This order create process has been completed.</longDescription>
- <detail>
  <value>Automated Record Create</value>
  <name code="CO" keyId="35">COMMENT</name>
</detail>
</statusEvent>
- <statusEvent number="2">
  <code code="ROU" keyId="45">Routing</code>
  <author>bgobject</author>
  <eventDateTimeStamp>2005-08-08T15:06:18-04:00</eventDateTimeStamp>
  <enterDateTimeStamp>2005-08-08T15:06:18-04:00</enterDateTimeStamp>
  <shortDescription>Routing completed.</shortDescription>
  <longDescription>The routing process for this order has been completed.</longDescription>
</statusEvent>
- <statusEvent number="3">
  <code code="PLA" keyId="42">Plan</code>
  <author> 12345</author>
  <eventDateTimeStamp>2005-08-11T10:53:08-04:00</eventDateTimeStamp>
  <enterDateTimeStamp>2005-08-11T10:53:08-04:00</enterDateTimeStamp>
  <shortDescription>Order planning.</shortDescription>
  <longDescription>The order plan process is complete.</longDescription>
</statusEvent>
</statusGroup>

```

```

- <statusGroup number="2">
  <statusCode code="OUTB" keyId="48">Outbound</statusCode>
- <statusEvent number="1">
  <code code="SDC" keyId="49">Shipped from DC</code>
  <author>bgobject</author>
  <eventDateTimeStamp>2005-08-08T11:07:02-04:00</eventDateTimeStamp>
  <enterDateTimeStamp>2005-08-08T15:06:18-04:00</enterDateTimeStamp>
  <shortDescription>Order shipped from DC</shortDescription>
  <longDescription>This order has been shipped from the distribution center.</longDescription>
</statusEvent>
</statusGroup>
- <statusGroup number="3">
  <statusCode code="INB" keyId="58">Inbound</statusCode>
- <statusEvent number="1">
  <code code="RCV" keyId="59">Received by Vendor</code>
  <author>babiakha</author>
  <eventDateTimeStamp>2005-08-10T00:00:00-04:00</eventDateTimeStamp>
  <enterDateTimeStamp>2005-08-10T10:57:17-04:00</enterDateTimeStamp>
  <shortDescription>Order received by vendor.</shortDescription>
  <longDescription>The Pharmaceutical order has been received by the vendor.</longDescription>
</statusEvent>
- <statusEvent number="2">
  <code code="APS" keyId="67">Appt scheduled</code>
  <author>babiakha</author>
  <eventDateTimeStamp>2005-08-11T12:00:00-04:00</eventDateTimeStamp>
  <enterDateTimeStamp>2005-08-10T10:57:17-04:00</enterDateTimeStamp>
  <shortDescription>Appointment scheduled.</shortDescription>
  <longDescription>The appointment with the client representative has been scheduled.</longDescription>
</statusEvent>
</statusGroup>
</status>
</status>
</order>
</usc>

```

Appendix D - Events

Events Table - Events that may be captured by business line		
Event Key ID	Event Description Short	High-Level Event Status
Airline Event Activity		
17	BDO Created	Prepared
19	Luggage Recovered	Outbound
23	Luggage Delivered	Delivered
27	Client Invoiced	Billing
30	Payment Received	Billing
34	Vendor Paid	Completed
Pharm Event Activity		
40	Created	Prepared
42	Planned	Prepared
45	Routed	Prepared

49	Shipped from DC	Outbound
52	Received for Crossdock	Outbound
55	Shipped from Crossdock	Outbound
59	Received by Vendor	Inbound
62	Recovered by Vendor	Inbound
65	Rep Notified	Inbound
67	Appointment Scheduled	Inbound
71	Order Delivered	Delivered
74	Hardcopy POD Received	Delivered
78	Client Invoiced	Billing
81	Payment Received	Billing
34	Vendor Paid	Complete
Cargo Event Activity		
116	Created	Prepared
117	Dispatched	Prepared
118	Accepted	Prepared
119	Received by Vendor	Outbound
120	Recovered by Vendor	Outbound
121	Arrived at Pickup Location	Outbound
122	Departure Date/Time	Outbound
123	Appointment Scheduled	Outbound
124	Arrived at Drop-off Location	Inbound
125	Departure Date/Time	Inbound
126	Delivered	Delivered
127	Hardcopy POD Received	Delivered
128	Client Invoiced	Billing
129	Payment Received	Billing
130	Vendor Paid	Complete

Appendix E - KeyId/Code Definitions

Uxref Key ID	Uxref Code	Key Id Description
29	VN	Vendor
32	CL	Client
31	AN	Airway Bill
33	BL	Dsi Bill Of Lading
34	CB	Client Bill of Lading
37	OI	Order Id