

Commerce One

TRP Multi-Hop with Reliable Messaging
Proof Of Concept
Draft Version 0.1

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Executive Summary

The TRP Multi-Hop With Reliable Messaging Proof Of Concept will validate the ebXML Transport, Routing, & Packaging specification for the secure and reliable exchange between two parties. This proof of concept will specifically demonstrate:

- Multi-Hop transport from sender, to hub, to end-recipient.
- Reliable messaging with retries and Failed Message Delivery.

Corporate Sponsorship

Commerce One is seeking to work with other partners in the implementation of this proposal.

1. POC Overview

1.1 Rationale

The proof of concept is designed to demonstrate multi-hop messaging in a hub-and-spoke model using a procurement business scenario. In addition, use of reliable messaging in multi-hop scenarios will be demonstrated.

1.2 Scenarios

Three scenarios will be demonstrated.

- Purchase Order sent from a buyer to a seller resulting in the return of a Purchase Order Response.
- Reliable Messaging: Automatic detection and correction of message loss between the seller and the hub.
- Reliable Messaging: Delivery failure message for an undeliverable message. The seller sends a Purchase Order Response that cannot be delivered to the Buyer. The Seller is informed of the failure.

1.3 References and Specifications Validated

The proof of concept will validate the following specifications:

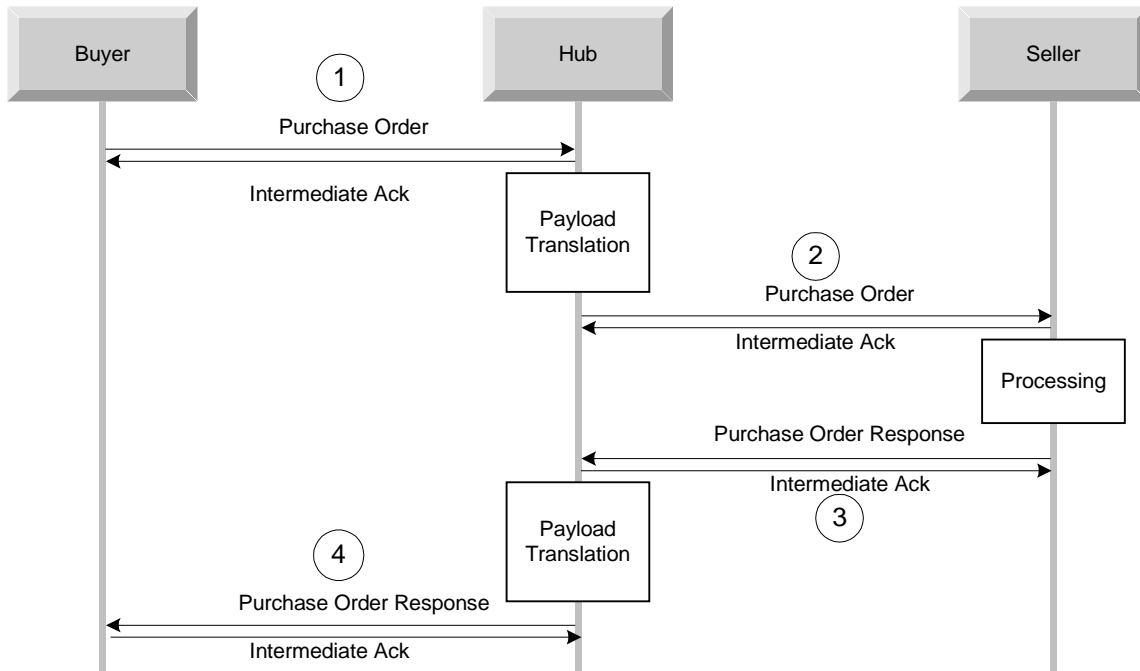
- EbXML Message Service Specification – Transport, Routing, & Packaging (version to be determined at the Vancouver meeting).

1.4 Variations in Approach

The scenario described assumes the use of a xCBL purchase order. Commerce One is prepared to consider alternative documents and business scenarios as the objective is to demonstrate reliable multi-hop messaging.

2. Purchase Order and Response

This scenario demonstrates successful message delivery with multiple hops and optional payload translation at the hub.

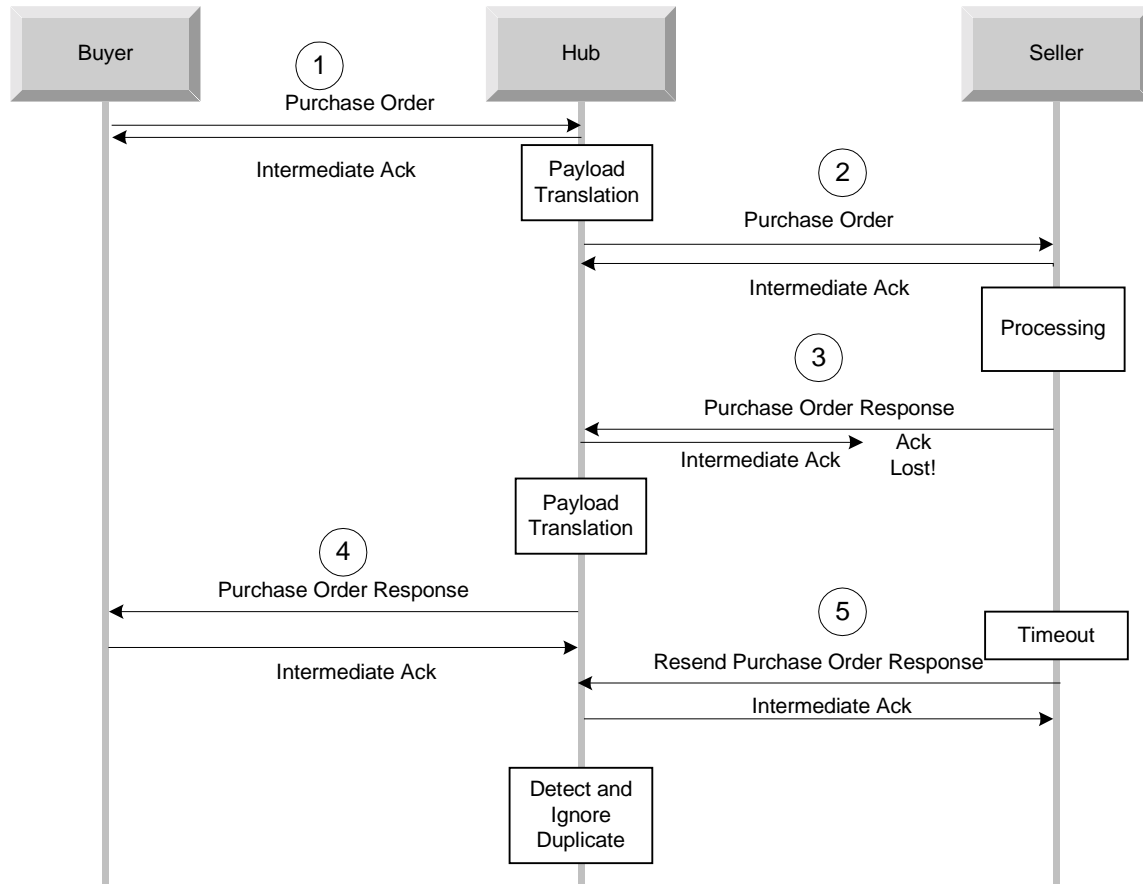


1. The Buyer sends a message containing Purchase Order payload to the Hub. The Hub returns an intermediate acknowledgement and performs payload translation from XML to EDI¹.
2. The Hub forwards the message to the Seller and receives an intermediate acknowledgement. The Seller processes the Purchase Order.
3. The Seller sends a Purchase Order Response to the Hub. The Hub returns an intermediate acknowledgement and performs payload translation from EDI to XML.
4. The Hub forwards the Purchase Order Response to the Buyer. The Buyer returns an intermediate acknowledgement.

¹ Here and in all other scenarios, EDI payload is transmitted using the ebXML transport.

3a. Reliable Messaging: Automatic Correction 1

In this scenario a lost message is detected by the Seller and re-sent, resulting in a duplicate message. The Hub ignores the duplicate message.



1. The Buyer sends a message containing Purchase Order payload to the Hub. The Hub returns an intermediate acknowledgement and performs payload translation from XML to EDI.

2. The Hub forwards the message to the Seller and receives an intermediate acknowledgement. The Seller processes the Purchase Order.

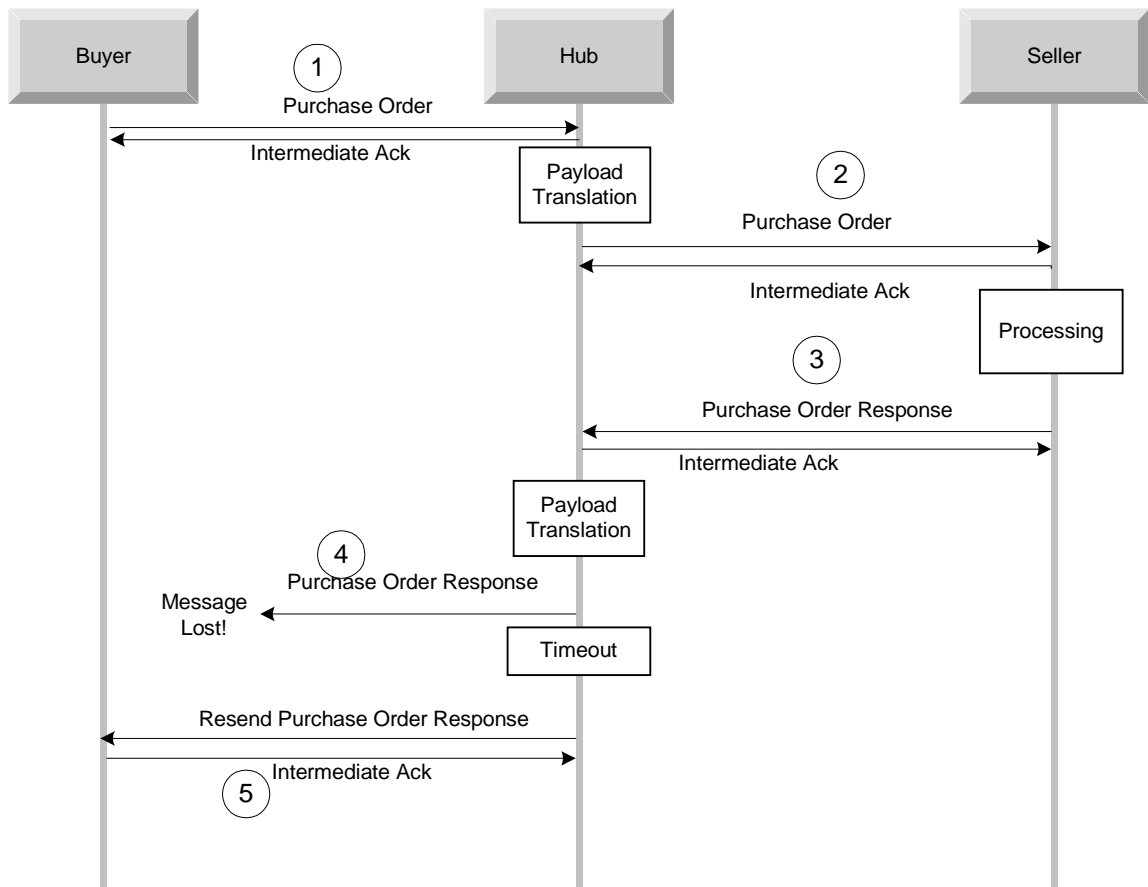
3. The Seller sends a Purchase Order Response to the Hub. The Hub returns an intermediate acknowledgement which fails to reach the Seller. The Hub performs payload translation from EDI to XML.

4. The Hub forwards the Purchase Order Response to the Buyer. The Buyer returns an intermediate acknowledgement.

5. The Seller re-sends the Purchase Order Response and receives an intermediate acknowledgement from the Hub. The Hub ignores the duplicate message.

3b. Reliable Messaging: Automatic Correction 2

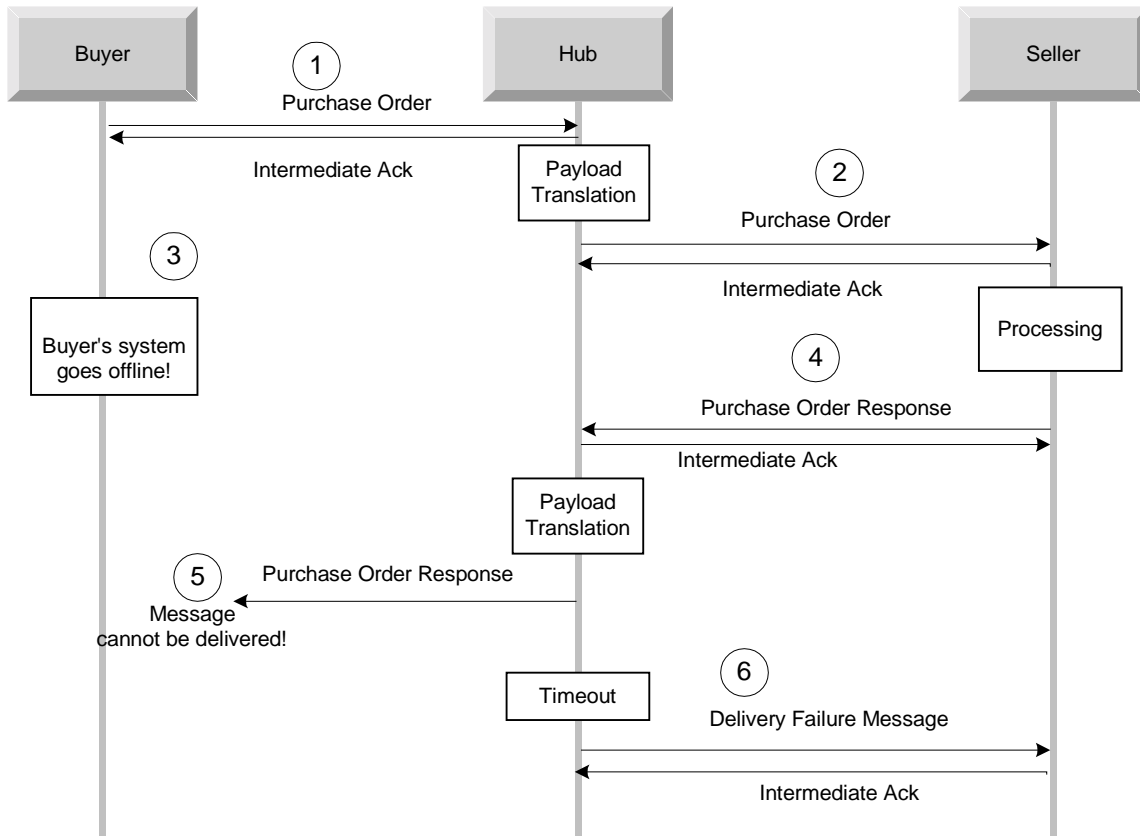
In this scenario, a lost message is detected by the Hub and re-sent.



1. The Buyer sends a message containing Purchase Order payload to the Hub. The Hub returns an intermediate acknowledgement and performs payload translation from XML to EDI.
2. The Hub forwards the message to the Seller and receives an intermediate acknowledgement. The Seller processes the Purchase Order.
3. The Seller sends a Purchase Order Response to the Hub. The Hub returns an intermediate acknowledgement and performs payload translation from EDI to XML.
4. The Hub forwards the message to the Buyer. The message is lost en route.
5. The Hub detects failed delivery and re-sends the message. The Buyer returns an acknowledgement.

4. Reliable Messaging: Message Delivery Failure

In this scenario, a message cannot be delivered successfully. The Hub notifies the Seller of the failed message delivery.



1. The Buyer sends a message containing Purchase Order payload to the Hub. The Hub returns an intermediate acknowledgement and performs payload translation from XML to EDI.
2. The Hub forwards the message to the Seller and receives an intermediate acknowledgement. The Seller processes the Purchase Order.
3. The Buyer's system suffers a catastrophic failure and goes offline.
4. The Seller sends a Purchase Order Response to the Hub. The Hub returns an intermediate acknowledgement and performs payload translation from EDI to XML.
5. The Hub forwards the message to the Buyer. The message does not get through. The Hub tries re-sending the message to the Buyer until the timeout setting is reached.

6. The Hub sends a Delivery Failure message to the Seller. The Seller acknowledges receipt.

Appendix A. Purchase Order and Purchase Order Response DTDs

See www.xcbl.org for the relevant DTDs.

Appendix B. Purchase Order Sample

```
<?xml version="1.0"?>

<!-- SAMPLE FILE OF PARSABLE ORDER, THIS DOES NOT CONTAIN REAL DATA
-->
<!-- ORDER HEADER -->
<!DOCTYPE Order SYSTEM 'XCBL30.dtd'>

<Order>
  <OrderHeader>
    <OrderNumber>
      <BuyerOrderNumber>string of
characters</BuyerOrderNumber>
      <SellerOrderNumber>string of
characters</SellerOrderNumber>
      <ListOfMessageID>
        <MessageID>
          <IDNumber>string of characters</IDNumber>
          <IDAssignedBy>

          <IDAssignedByCoded>Other</IDAssignedByCoded>
          <IDAssignedByCodedOther>string of
characters</IDAssignedByCodedOther>
          </IDAssignedBy>

        <IDAssignedDate>20001211T15:25:00</IDAssignedDate></MessageID>
        </ListOfMessageID>
      </OrderNumber>
      <OrderIssueDate>20001005T09:30:00</OrderIssueDate>
      <OrderReferences>
        <AccountCode>
          <Reference>
            <RefNum>string of characters</RefNum>
            <RefDate>20001211T15:26:00</RefDate>
          </Reference>
        </AccountCode>
        <QuoteReference>
          <Reference>
            <RefNum>string of characters</RefNum>
            <RefDate>20001211T15:26:00</RefDate>
          </Reference>
        </QuoteReference>
        <OtherOrderReferences>
          <ListOfReferenceCoded>
            <ReferenceCoded>

            <ReferenceTypeCoded>Other</ReferenceTypeCoded>
            <ReferenceTypeCodedOther>string of
characters</ReferenceTypeCodedOther>
            <PrimaryReference>
              <Reference>
                <RefNum>string of
characters</RefNum>
```

```

    <RefDate>20001211T15:26:00</RefDate>
        </Reference>
    </PrimaryReference>
    <SupportingReference>
        <Reference>
            <RefNum>string of
characters</RefNum>

    <RefDate>20001211T15:26:00</RefDate>
        </Reference>
    </SupportingReference>
    <SupportingSubReference>
        <Reference>
            <RefNum>string of
characters</RefNum>

    <RefDate>20001211T15:26:00</RefDate>
        </Reference>
    </SupportingSubReference>
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characters</ReferenceDescription>
    </ReferenceCoded>
    <ReferenceCoded>

    <ReferenceTypeCoded>Other</ReferenceTypeCoded>
        <ReferenceTypeCodedOther>string of
characters</ReferenceTypeCodedOther>
    <PrimaryReference>
        <Reference>
            <RefNum>string of
characters</RefNum>

    <RefDate>20001211T15:26:00</RefDate>
        </Reference>
    </PrimaryReference>
    <SupportingReference>
        <Reference>
            <RefNum>string of
characters</RefNum>

    <RefDate>20001211T15:26:00</RefDate>
        </Reference>
    </SupportingReference>
    <SupportingSubReference>
        <Reference>
            <RefNum>string of
characters</RefNum>

    <RefDate>20001211T15:26:00</RefDate>
        </Reference>
    </SupportingSubReference>
    <ReferenceDescription>string of
characters</ReferenceDescription>
    </ReferenceCoded>
    </ListOfReferenceCoded>
    </OtherOrderReferences>

```

```

        </OrderReferences>
        <ReleaseNumber>string of characters</ReleaseNumber>
        <Purpose>
            <PurposeCoded>Original</PurposeCoded>
            <PurposeCodedOther>string of
characters</PurposeCodedOther>
        </Purpose>
        <OrderType>
            <OrderTypeCoded>AdviceOfAnAmendmentOfADocumentaryCredit</OrderType
Coded>
            <OrderTypeCodedOther>string of
characters</OrderTypeCodedOther>
        </OrderType>
        <OrderCurrency>
            <Currency>
                <CurrencyCoded>USD</CurrencyCoded>
                <CurrencyCodedOther>string of
characters</CurrencyCodedOther>
            </Currency>
        </OrderCurrency>
        <TaxAccountingCurrency>
            <Currency>
                <CurrencyCoded>USD</CurrencyCoded>
            </Currency>
        </TaxAccountingCurrency>
        <OrderLanguage>
            <Language>
                <LanguageCoded>en</LanguageCoded>
            </Language>
        </OrderLanguage>
        <OrderDates>
            <CancelByDate>20010115T09:00:00</CancelByDate>
            <ListOfDateCoded>
                <DateCoded>
                    <Date>20001211T15:30:00</Date>
                <DateQualifier>
                    <DateQualifierCoded>Other</DateQualifierCoded>
                    <DateQualifierCodedOther>string of
characters qualifying date</DateQualifierCodedOther>
                </DateQualifier>
            </DateCoded>
        </ListOfDateCoded>
        </OrderDates>
        <OrderParty>
            <BuyerParty>
                <Party>
                    <PartyID>
                        <Identifier>
                            <Agency>
                                <AgencyCoded>AIHA</AgencyCoded>
                                <AgencyCodedOther>string
of characters</AgencyCodedOther>
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characters</AgencyDescription><CodeListIdentifierCoded>Other</CodeListId

```

```

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                                <Ident>string of
characters</Ident>
                                </Identifier>
                                </PartyID>
                                <ListOfIdentifier>
                                <Identifier>
                                <Agency>

                                <AgencyCoded>AIHA</AgencyCoded>
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of characters</AgencyCodedOther>
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                                </Identifier>
                                <Identifier>
                                <Agency>

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of characters</AgencyCodedOther>
                                <AgencyDescription>string of
characters</AgencyDescription><CodeListIdentifierCoded>Other</CodeListId
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characters</CodeListIdentifierCodedOther></Agency>
                                <Ident>string of
characters</Ident>
                                </Identifier>
                                <Identifier>
                                <Agency>

                                <AgencyCoded>AIHA</AgencyCoded>
                                <AgencyCodedOther>string
of characters</AgencyCodedOther>
                                <AgencyDescription>string of
characters</AgencyDescription><CodeListIdentifierCoded>Other</CodeListId
entifierCoded><CodeListIdentifierCodedOther>string of
characters</CodeListIdentifierCodedOther></Agency>
                                <Ident>string of
characters</Ident>
                                </Identifier>
                                </ListOfIdentifier>
                                <MDFBusiness>>true</MDFBusiness>
                                <NameAddress
AddressTypeCodedOther="string">
                                <ExternalAddressID>string of
characters</ExternalAddressID>
                                <Name1>string of characters</Name1>
                                <Name2>string of characters</Name2>
                                <Name3>string of characters</Name3>
                                <Identifier>
                                <Agency>

```



```

    <AgencyCoded>ACORD</AgencyCoded>
                                <AgencyCodedOther>string
of characters</AgencyCodedOther>

    <AgencyDescription>string of characters</AgencyDescription>

    <CodeListIdentifierCoded>Other</CodeListIdentifierCoded>

    <CodeListIdentifierCodedOther>string of
characters</CodeListIdentifierCodedOther>
                                </Agency>
                                <Ident>string</Ident>
                                </Identifier>
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POBoxPostalCode="553">Other</POBox>
                                <Street>ABC Street</Street>
                                <HouseNumber>string of
characters</HouseNumber>
                                <StreetSupplement1>string of
characters</StreetSupplement1>
                                <StreetSupplement2>string of
characters</StreetSupplement2>
                                <Building>string of
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                                <Department>string of
characters</Department>
                                <PostalCode>string of
characters</PostalCode>
                                <City>string of characters</City>
                                <County>string of
characters</County>
                                <Region>

    <RegionCoded>Other</RegionCoded>
                                <RegionCodedOther>string of
characters</RegionCodedOther>
                                </Region>
                                <District>string of
characters</District>
                                <Country>

    <CountryCoded>US</CountryCoded>
                                <CountryCodedOther>string of
characters</CountryCodedOther>
                                </Country>
                                <Timezone>

    <TimezoneCoded>09.45</TimezoneCoded>
                                <TimezoneCodedOther>-
09.45</TimezoneCodedOther>
                                </Timezone>
                                </NameAddress>
                                </Party>
                                </BuyerParty>
                                <SellerParty>
                                <Party>

```

```

        <PartyID>
            <Identifier>
                <Agency>
                    <AgencyCoded>AIHA</AgencyCoded>
                    <AgencyCodedOther>string
of characters</AgencyCodedOther>
                    <AgencyDescription>string of characters</AgencyDescription>
                    <CodeListIdentifierCoded>BalanceTypeCode</CodeListIdentifierCoded>
                    </Agency>
                    <Ident>string of
characters</Ident>
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characters</ExternalAddressID>
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                <Name2>string of characters</Name2>
                <Name3>string of characters</Name3>
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characters</AgencyCodedOther>
                    <AgencyDescription>string of
characters</AgencyDescription>
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characters</CodeListIdentifierCodedOther>
                    </Agency>
                    <Ident>string</Ident>
                </Identifier>
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                <Street>ABC Street</Street>
                <HouseNumber>string of
characters</HouseNumber>
                <StreetSupplement1>string of
characters</StreetSupplement1>
                <StreetSupplement2>string of
characters</StreetSupplement2>
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                <Department>string of
characters</Department>
                <PostalCode>string of
characters</PostalCode>
                <City>string of characters</City>
                <County>string of characters</County>
                <Region>
                    <RegionCoded>Other</RegionCoded>
                    <RegionCodedOther>string of
characters</RegionCodedOther>

```

```

                                </Region><District>string of
characters</District>
                                <Country>
                                    <CountryCoded>US</CountryCoded>
                                <CountryCodedOther>string of
characters</CountryCodedOther>
                                </Country>
                                <Timezone>
                                    <TimezoneCoded>09.45</TimezoneCoded>
                                <TimezoneCodedOther>-
09.45</TimezoneCodedOther>
                                </Timezone>
                                    </NameAddress>
                                </Party>
                                </SellerParty>
                                <BillToParty>
                                    <Party>
                                        <PartyID>
                                            <Identifier>
                                                <Agency>
                                                    <AgencyCoded>ACORD</AgencyCoded>
                                                    <AgencyCodedOther>string of
characters</AgencyCodedOther>
                                                    <AgencyDescription>string of
characters</AgencyDescription>
                                                    <CodeListIdentifierCoded>Other</CodeListIdentifierCoded>
                                                    <CodeListIdentifierCodedOther>string of
characters</CodeListIdentifierCodedOther>
                                                    </Agency>
                                                    <Ident>string</Ident>
                                                </Identifier>
                                            </PartyID>
                                        <NameAddress AddressTypeCodedOther="string">
                                            <ExternalAddressID>string of
characters</ExternalAddressID>
                                            <Name1>string of characters</Name1>
                                            <Name2>string of characters</Name2>
                                            <Name3>string of characters</Name3>
                                            <Identifier>
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                                                    <AgencyCoded>ACORD</AgencyCoded>
                                                    <AgencyCodedOther>string of
characters</AgencyCodedOther>
                                                    <AgencyDescription>string of
characters</AgencyDescription>
                                                    <CodeListIdentifierCoded>Other</CodeListIdentifierCoded>
                                                    <CodeListIdentifierCodedOther>string of
characters</CodeListIdentifierCodedOther>
                                                    </Agency>
                                                    <Ident>string</Ident>
                                                </Identifier>

```

```

                                <POBox POBoxPostalCode="553">Other</POBox>
                                <Street>ABC Street</Street>
                                <HouseNumber>string of
characters</HouseNumber>
                                <StreetSupplement1>string of
characters</StreetSupplement1>
                                <StreetSupplement2>string of
characters</StreetSupplement2>
                                <Building>string of characters</Building>
                                <Department>string of
characters</Department>
                                <PostalCode>string of
characters</PostalCode>
                                <City>string of characters</City>
                                <County>string of characters</County>
                                <Region>
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                                    <RegionCodedOther>string of
characters</RegionCodedOther>
                                </Region>
                                <District>string of characters</District>
                                <Country>
                                    <CountryCoded>US</CountryCoded>
                                    <CountryCodedOther>string of
characters</CountryCodedOther>
                                </Country>
                                <Timezone>
                                    <TimezoneCoded>09.45</TimezoneCoded>
                                    <TimezoneCodedOther>-
09.45</TimezoneCodedOther>
                                </Timezone>
                                </NameAddress>
                                </Party>
                                </BillToParty>
                                </OrderParty>
                                <OrderHeaderNote>string of characters</OrderHeaderNote>
                                </OrderHeader>
<!-- ORDER DETAIL -->
                                <OrderDetail>
                                    <ListOfItemDetail>
                                        <ItemDetail>
                                            <BaseItemDetail>
                                                <LineItemNum>
<BuyerLineItemNum>55</BuyerLineItemNum>
<SellerLineItemNum>66</SellerLineItemNum>
                                                </LineItemNum>
                                                <CountryOfOrigin>
<Country>
<CountryCoded>AF</CountryCoded>
                                                <CountryCodedOther>string of
characters</CountryCodedOther>
                                                </Country>

```

```

        </CountryOfOrigin>
        <CountryOfDestination>
            <Country>

<CountryCoded>US</CountryCoded>
            </Country>
        </CountryOfDestination>
        <FinalRecipient>
            <Party>
                <PartyID>
                    <Identifier>
                        <Agency>

<AgencyCoded>AIHA</AgencyCoded>

<AgencyCodedOther>string of characters</AgencyCodedOther>

        <AgencyDescription>string of
characters</AgencyDescription><CodeListIdentifierCoded>Other</CodeListId
entifierCoded><CodeListIdentifierCodedOther>string of
characters</CodeListIdentifierCodedOther></Agency>
                <Ident>string of
characters</Ident>
                    </Identifier>
                </PartyID>
            <ListOfIdentifier>
                <Identifier>
                    <Agency>

<AgencyCoded>AIHA</AgencyCoded>

<AgencyCodedOther>string of characters</AgencyCodedOther>

<AgencyDescription>string of characters</AgencyDescription>

<CodeListIdentifierCoded>Other</CodeListIdentifierCoded>

        <CodeListIdentifierCodedOther>string of
characters</CodeListIdentifierCodedOther>
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            <Ident>string of
characters</Ident>
                </Identifier>
            <Identifier>
                <Agency>

<AgencyCoded>AIHA</AgencyCoded>

<AgencyCodedOther>string of characters</AgencyCodedOther>

<AgencyDescription>string of characters</AgencyDescription>

<CodeListIdentifierCoded>Other</CodeListIdentifierCoded>

        <CodeListIdentifierCodedOther>string of
characters</CodeListIdentifierCodedOther>
                </Agency>

```

```

characters</Ident>
<Ident>string of
</Identifier>
<Identifier>
<Agency>
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characters</Ident>
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AddressTypeCodedOther="string">
<ExternalAddressID>string of characters</ExternalAddressID>
<Name1>string of
characters</Name1>
<City>string of
characters</City>
<Country>
<CountryCoded>US</CountryCoded>
<CountryCodedOther>string of characters</CountryCodedOther>
</Country>
<Timezone>
<TimezoneCoded>09.45</TimezoneCoded>
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</Timezone>
</NameAddress>
<CorrespondenceLanguage>
<Language>
<LanguageCoded>fr</LanguageCoded>
</Language>
</CorrespondenceLanguage>
</Party>
</FinalRecipient>
<ConditionsOfSale>
<SalesRequirement>
<SalesRequirementCoded>Other</SalesRequirementCoded>

```

```

        <SalesRequirementCodedOther>string of
characters</SalesRequirementCodedOther>
                </SalesRequirement>

        <SalesActionCoded>Other</SalesActionCoded>
                <SalesActionCodedOther>string of
characters</SalesActionCodedOther>
                <SalesActionValue>string of
characters</SalesActionValue>
                </ConditionsOfSale>
                <HazardousMaterials>
                <Hazardous>

        <HazardNote>string</HazardNote>
                <EMSNum>string</EMSNum>
                <Mfag>string</Mfag>
                </Hazardous>
                </HazardousMaterials>
        </BaseItemDetail>
        <LineItemNote>string of
characters</LineItemNote>
                </ItemDetail>
        </ListOfItemDetail>
</OrderDetail>

<!-- ORDER SUMMARY -->

<OrderSummary>
        <NumberOfLines>5</NumberOfLines>
        <TotalAmount>
                <MonetaryValue>

        <MonetaryAmount>000000000000000.000000</MonetaryAmount>
                <Currency>
                <CurrencyCoded>USD</CurrencyCoded>
                </Currency>
                </MonetaryValue>
        </TotalAmount>
        <TransportPackagingTotals>
                <TotalPackages>566</TotalPackages>
        </TransportPackagingTotals>
        <SummaryNote>string of characters</SummaryNote>
</OrderSummary>
</Order>

```

Appendix C. Purchase Order Response Sample

```
<?xml version="1.0"?>

<!-- THIS IS A SAMPLE ONLY, NO REAL DATA CONTAINED WITHIN      -->

<!DOCTYPE OrderResponse SYSTEM 'XCBL30.dtd'>

<OrderResponse>
  <OrderResponseHeader>
    <OrderResponseNumber>
      <BuyerOrderResponseNumber>string of
characters</BuyerOrderResponseNumber>
      <SellerOrderResponseNumber>string of
characters</SellerOrderResponseNumber>
    <ListOfMessageID>
      <MessageID>
        <IDNumber>string of characters</IDNumber>
        <IDAssignedBy>

      <IDAssignedByCoded>Other</IDAssignedByCoded>
        </IDAssignedBy>

      <IDAssignedDate>20001006T11:30:00</IDAssignedDate>
        </MessageID>
      </ListOfMessageID>
    </OrderResponseNumber>

    <OrderResponseIssueDate>20001006T11:38:00</OrderResponseIssueDate>
    <OrderResponseDocTypeCoded>Other</OrderResponseDocTypeCoded>
    <OrderResponseDocTypeCodedOther>string of
characters</OrderResponseDocTypeCodedOther>
    <OrderReference>
      <Reference>
        <RefNum>556</RefNum>
        <RefDate>20001023T17:43:00</RefDate>
      </Reference>
    </OrderReference>
    <ChangeOrderReference>
      <Reference>
        <RefNum>556</RefNum>
        <RefDate>20001006T13:40:00</RefDate>
      </Reference>
    </ChangeOrderReference>
    <SellerParty>
      <Party>
        <PartyID>
          <Identifier>
            <Agency>

          <AgencyCoded>ACORD</AgencyCoded>
```



```

        <AgencyCodedOther>string of
characters</AgencyCodedOther>
        </Agency>
        <Ident>string of characters</Ident>
    </Identifier>
</PartyID>
<OrderContact>
    <Contact>
        <ContactName>John Doe</ContactName>
        <ContactFunction>

<ContactFunctionCoded>Advisor</ContactFunctionCoded>
        </ContactFunction>
        <ListOfContactNumber>
            <ContactNumber>
                <ContactNumberValue>666-
666-6666</ContactNumberValue>

<ContactNumberTypeCoded>PagerNumber</ContactNumberTypeCoded>
                </ContactNumber>
            </ListOfContactNumber>
        </Contact>
    </OrderContact>
    <CorrespondenceLanguage>
        <Language>
            <LanguageCoded>fr</LanguageCoded>
            <LocaleCoded>Other</LocaleCoded>
        </Language>
    </CorrespondenceLanguage>
</Party>
</SellerParty>
<BuyerParty>
    <Party>
        <PartyID>
            <Identifier>
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