

C.H. Robinson Worldwide

MESSAGE IMPLEMENTATION GUIDE

TECHNICAL SPECIFICATION FOR XML LOAD BOOKING MESSAGE

Document Information

Document Name: MESSAGE IMPLEMENTATION GUIDE
 TECHNICAL SPECIFICATION FOR XML LOAD BOOKING MESSAGE
 Document Version No: 1.1
 Prepared By: C.H. Robinson Carrier Integration Team
 Document Version Date: October 4, 2018
 Preparation Date: April 11, 2017

Revision History

Version	Date	Author	Changes
1.0	04-11-2017	Jacob Oliver	Create Document
1.1	10-04-2018	Pratibha Yadav	Updated stop state, address2, Temp Control
1.2	05-13-2020	Francesco Lerro	Added Stackability field

Contents

- Revision History 2
- 1. Introduction 4
- 2. XML Structure 5
- 3. Load Booking Message..... 6
 - 3.1 Shipment 6
 - 3.2 Header 7
 - 3.3 Shipment Details 8
 - 3.4 Charges..... 10
 - 3.5 Stops..... 11
 - 3.6 Carriers 15
 - 3.7 Commodities 18
 - 3.8 Item Associations 23
- 4. Useful Contacts 24
- 5. Appendices..... 25
 - Appendix A: FTP Information..... **Error! Bookmark not defined.**
 - Appendix B: Outbound XML EDI Schema (Booking)..... **Error! Bookmark not defined.**
 - Appendix C: Example Messages 25

1. Introduction

This document is intended for business and technical personnel engaged in establishing an electronic connection with C.H. Robinson for the purpose of receiving a **Load Booking** XML EDI message. Separate Implementation Guides have been created for the XML Response and Status Update EDI messages.

The documents describes the XML schema's from which **three** types of standard messages can be created and communicated between C.H. Robinson and a Carrier

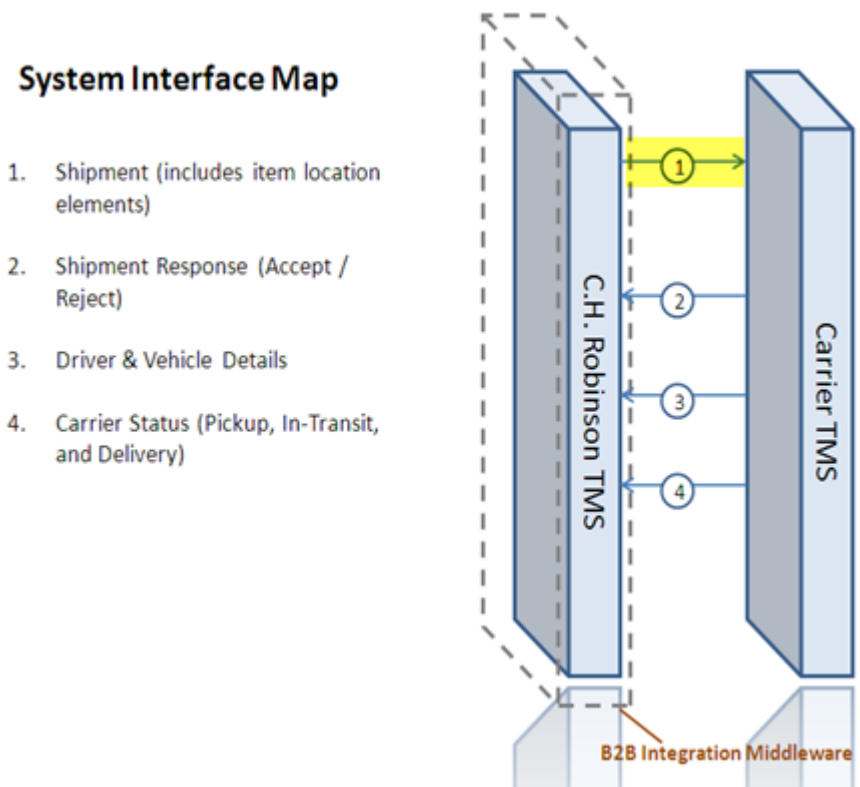
1. Outbound Message (C.H. Robinson to Carrier):

- **Load Booking** – C.H. Robinson sends a load booking to a carrier. This booking will include all information as to the pick-up and delivery of the load, required dates, rates, and item details.

2. Inbound Message (Carrier to C.H. Robinson):

- **Response to Load Booking** – The carrier sends C.H. Robinson a response to the received load booking (accept or decline).
- **Shipment Status Updates** – The carrier sends C.H. Robinson updates to provide up-to-date status and reference information on in-transit shipments.

These messages can be visualized in the below diagram. The diagram below outlines a typical EDI transmission scenario between C.H. Robinson and a carrier.



1. C.H. Robinson will send a Load booking to a carrier (**This Spec**)
2. A carrier will either accept or reject the booking
3. After acceptance a carrier will send driver and vehicle details (e.g. license plate information)
4. During transit up to the final delivery a carrier will send multiple status updates related to the location and status of the shipment.

2. XML Structure

- The message specification is broken down into sections for ease of explanation. In practice the entire message will be transmitted as one.
- In the below diagrams any element that displays 0...1, 0...*, etc. can be considered optional data elements.
- Min (Use) and Max (Use) refers to the minimum and maximum occurrence of the field it describes
- Min Children and Max Children refers to the minimum and maximum sub-elements linked to the field it describes
- Required describes if the element is mandatory (M), Optional (O) or Conditional (C)
- Length refers to the maximum length of the field it describes
- Type describes what kind of data a certain element holds (Alpha Numeric (AN) or Numeric (N) and its subtype (String, Integer, Long or Boolean).

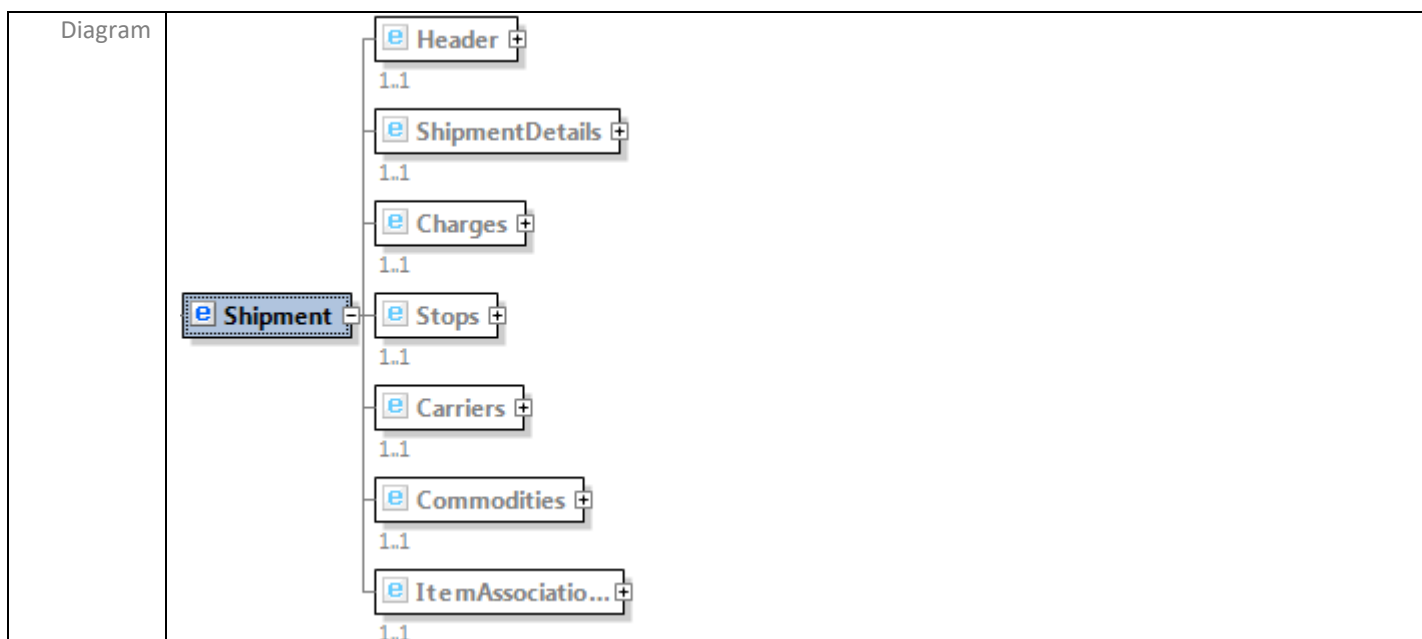
3. Load Booking Message

A Load Booking message will include all critical shipment information (locations, items, charges etc.) for pickup and delivery and will need to be either accepted or rejected by the recipient.

3.1 Shipment

XML documents must contain a root element. The **Shipment** element is the root element for the Load Booking XML message.

Element	Shipment									
Properties	Min Use	1	Max Use	1	Min Children	7	Max Children	7	Required	M



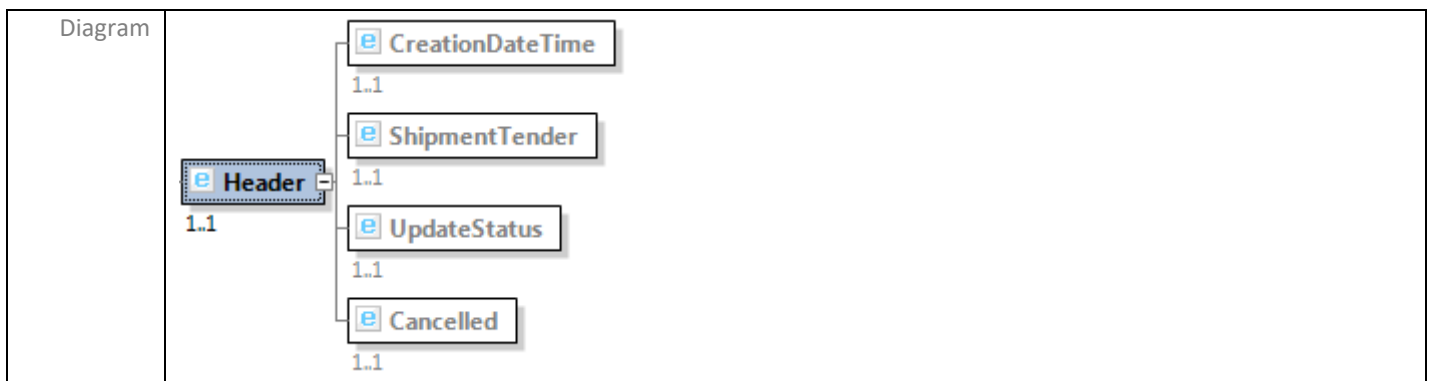
3.2 Header

The **Header** element is used to indicate the type of message and the date and time of creation. The element can indicate one of three message types:

- A new booking
- An updated booking
- A cancelled booking

Only one of the message type indicators will be set to “1” (Yes) per message. All other message type indicators will be set to “0” (No).

Element	Header									
Properties	Min Use	1	Max Use	1	Min Children	4	Max Children	4	Required	M



Sample

```

<Header>
  <CreationDateTime>20170409233400</CreationDateTime>
  <ShipmentTender>0</ShipmentTender>
  <UpdateStatus>1</UpdateStatus>
  <Cancelled>0</Cancelled>
</Header>
    
```

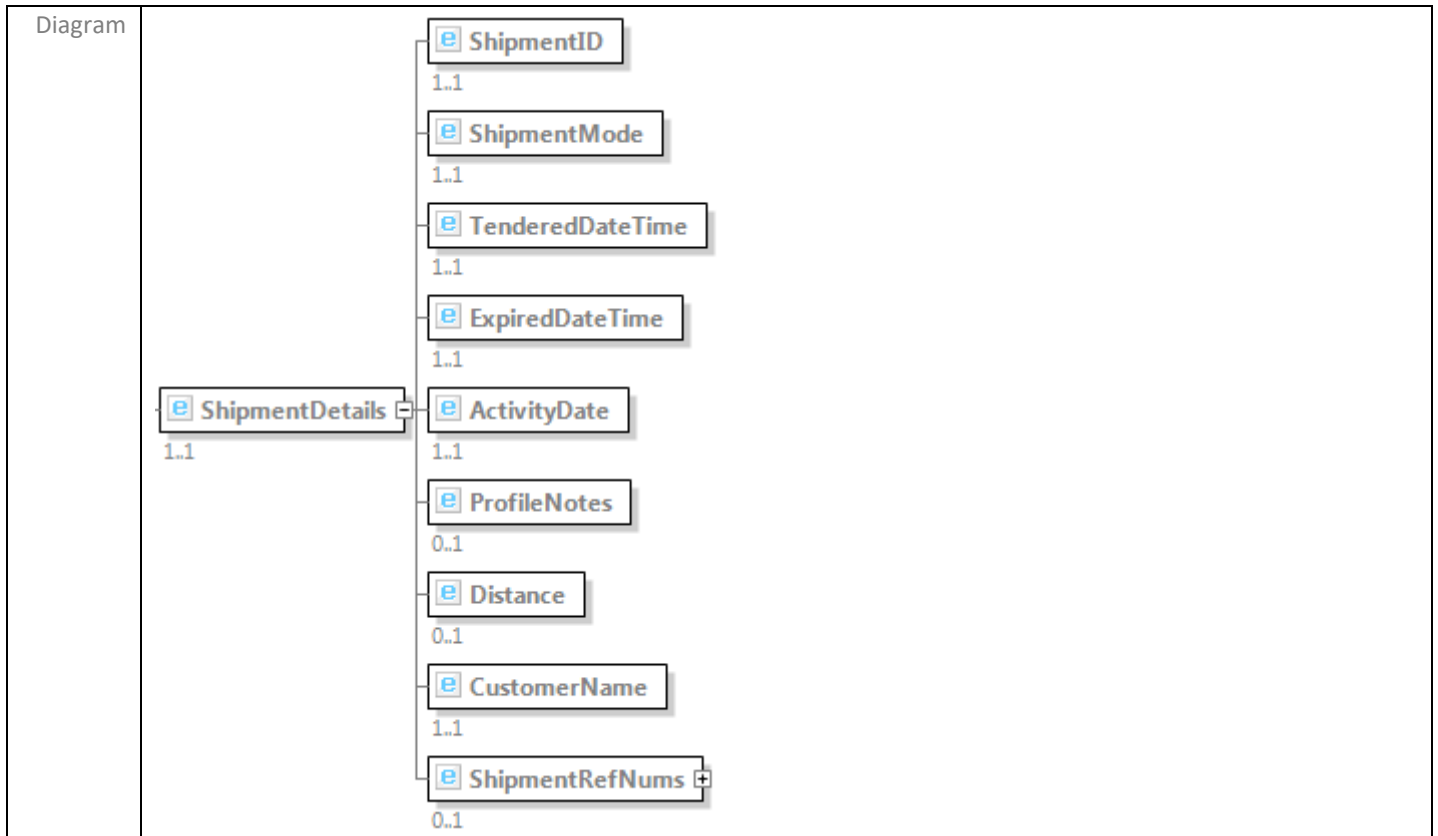
Element	Min	Max	Required	Type	Length	Description	Example
CreationDateTime	1	1	M	AN (String)	14	Document Creation Date and Time (Format: YMMDDHHMMSS)	20110110144343
ShipmentTender	1	1	M	N (Integer)	1	New booking indicator; Value “1” indicates a new booking (Format: 1 / 0)	1
UpdateStatus	1	1	M	N (Integer)	1	Updated booking indicator; Value “1” indicates an updated booking (Format: 1 / 0)	0
Cancelled	1	1	M	N (Integer)	1	Cancelled booking indicator; Value “1” indicates a cancelled booking. (Format: 1 / 0)	0

Notes	
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3.3 Shipment Details

The **ShipmentDetails** element contains information about the shipment including the date range wherein a carrier must approve or reject the booking request, and the C.H. Robinson shipment number, a key field in all communication between C.H. Robinson and all its business partners.

Element	ShipmentDetails									
Properties	Min Use	1	Max Use	1	Min Children	5	Max Children	9	Required	Yes



Sample	XML
	<pre> <ShipmentDetails> <ShipmentID>229643413</ShipmentID> <ShipmentMode>V</ShipmentMode> <TenderedDateTime>20170409233400</TenderedDateTime> <ExpiredDateTime>20170410003400</ExpiredDateTime> <ActivityDate>20170410000000</ActivityDate> <ProfileNotes>Rush Order!!!</ProfileNotes> <Distance>461</Distance> <CustomerName>CH Robinson</CustomerName> <ShipmentRefNums> </ShipmentRefNums> </ShipmentDetails> </pre>

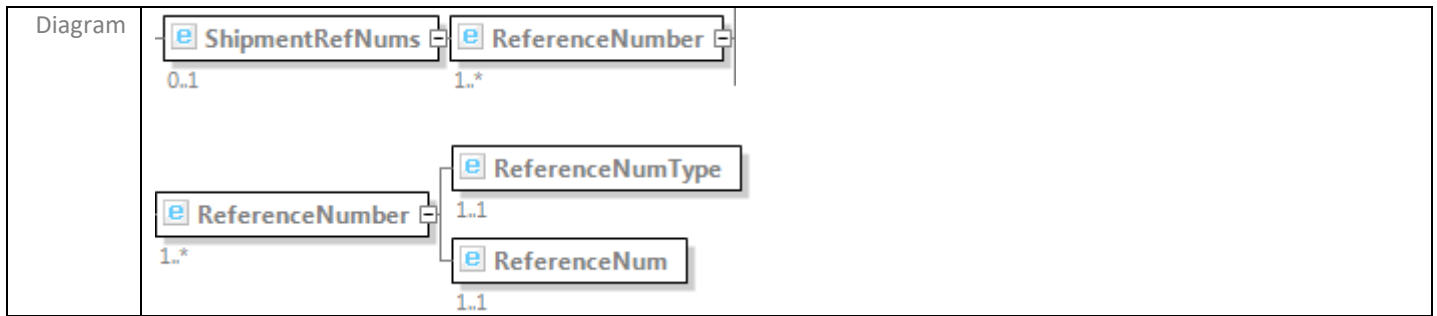
Element	Min	Max	Required	Type	Length	Description	Example
ShipmentID	1	1	M	N (String)	256	C.H. Robinson shipment number	229643413
ShipmentMode	1	1	M	AN (String)	256	Mode of Transport (Code)	V
TenderedDateTime	1	1	M	AN (String)	256	Start of acceptance time window (Format: YMMDDHHMMSS)	20170409233400
ExpiredDateTime	1	1	M	AN (String)	256	Deadline for acceptance of booking by carrier (Format: YMMDDHHMMSS)	20170410003400

ActivityDate	1	1	M	AN (String)	256	Requested Loading Date (Format: YMMDDHHMMSS)	2017041000000
ProfileNotes	0	1	O	AN (String)	256	Common Notes	Rush Order!!!
Distance	0	1	O	N (Integer)	256	Route Distance	461
CustomerName	1	1	M	AN (String)	256	For Shippers Agent business this will be the name of the customer, all other (brokerage) loads it will be CH Robinson	CH Robinson

3.3.1 Shipment Reference Numbers

The **ShipmentRefNums** element is an optional grouping that contains any additional reference number information at the shipment level.

Element	ShipmentRefNums									
Properties	Min Use	0	Max Use	1	Min Children	1	Max Children	∞	Required	No
Element	ReferenceNumber									
Properties	Min Use	1	Max Use	∞	Min Children	2	Max Children	2	Required	Yes



Sample	<pre> <ShipmentRefNums> <ReferenceNumber> <ReferenceNumType>XXXX</ReferenceNumType> <ReferenceNum>IBT</ReferenceNum> </ReferenceNumber> <ReferenceNumber> <ReferenceNumType>SHID</ReferenceNumType> <ReferenceNum>938705</ReferenceNum> </ReferenceNumber> </ShipmentRefNums> </ShipmentDetails> </pre>
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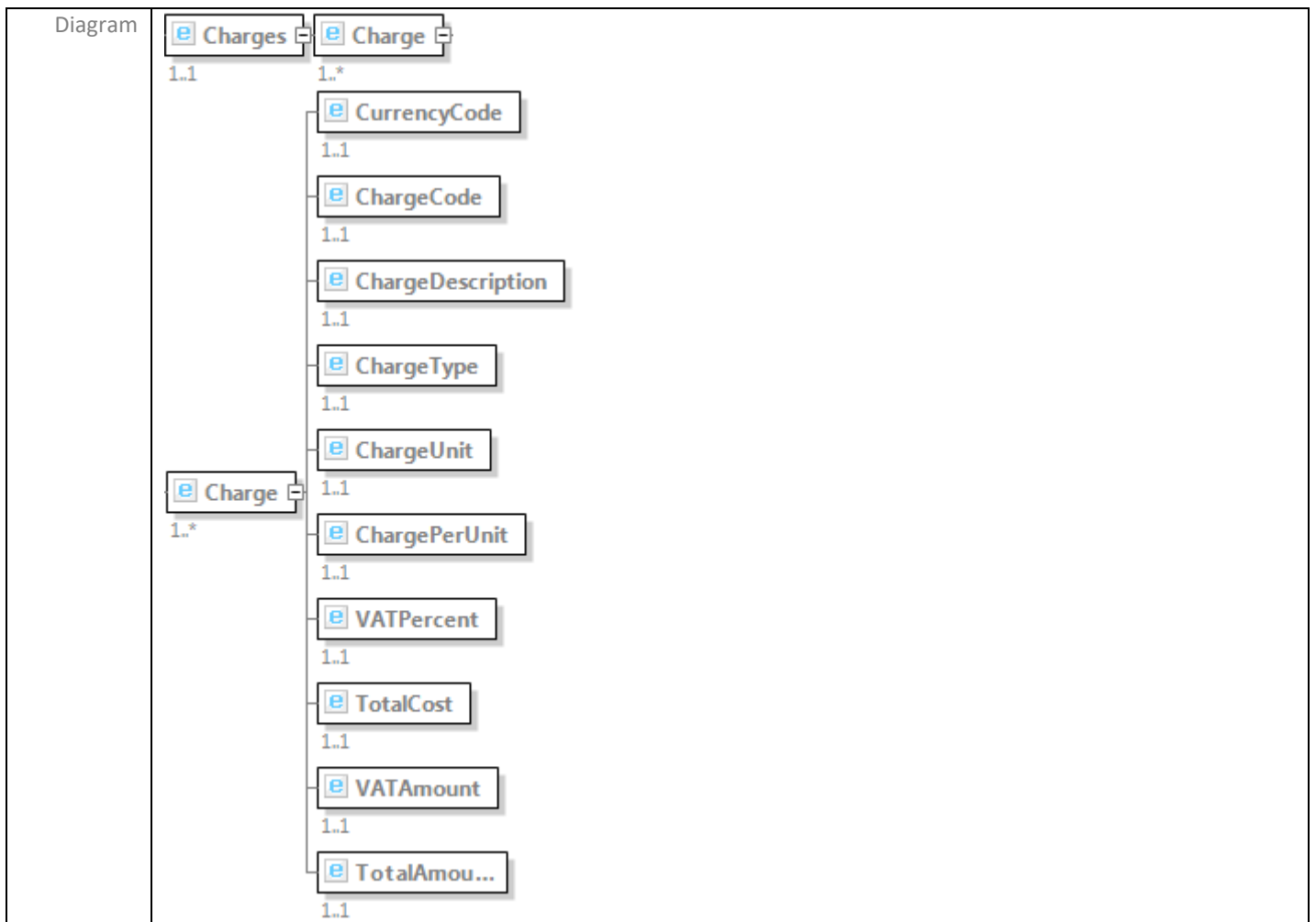
Sub Element	Min	Max	Required	Type	Length	Description	Example
RefNumType	1	1	M	AN (String)	256	Code used to identify type of reference number	SHID
ReferenceNum	1	1	M	AN (String)	256	Reference number	938705

3.4 Charges

The **Charges** element shows the agreed charges for the load. Each charge type will be sent in separate **Charge** elements.

Element	Charges									
Properties	Min Use	1	Max Use	1	Min Children	1	Max Children	∞	Required	M

Element	Charge									
Properties	Min Use	1	Max Use	∞	Min Children	10	Max Children	10	Required	M



Sample	XML
	<pre> <Charges> <Charge> <CurrencyCode>EUR</CurrencyCode> <ChargeCode>400</ChargeCode> <ChargeDescription>Line Haul</ChargeDescription> <ChargeType>F</ChargeType> <ChargeUnit>1.0</ChargeUnit> <ChargePerUnit>990.0</ChargePerUnit> <VATPercent>0</VATPercent> <TotalCost>0.0</TotalCost> <VATAmount>0</VATAmount> <TotalAmount>934.56</TotalAmount> </Charge> </Charges> </pre>

Element	Min	Max	Required	Type	Length	Description	Example
CurrencyCode	1	1	M	AN (String)	256	Currency Code	EUR
ChargeCode	1	1	M	AN (String)	256	C.H. Robinson Charge Code	400
ChargeDescription	1	1	M	AN (String)	256	Charge Description	Line Haul
ChargeType	1	1	M	AN (String)	256	Charge Type	F
ChargeUnit	1	1	M	N (Decimal)	256	Number of Units	1.0
ChargePerUnit	1	1	M	N (Decimal)	256	Charge per Unit	990.0
VATPercent	1	1	M	N (Decimal)	256	VAT Percentage Rate	0
TotalCost	1	1	M	N (Decimal)	256	Total Charges	0
VATAmount	1	1	M	N (Decimal)	256	VAT Amount	0
TotalAmount	1	1	M	N (Decimal)	256	Total Including VAT	934.56

Notes	
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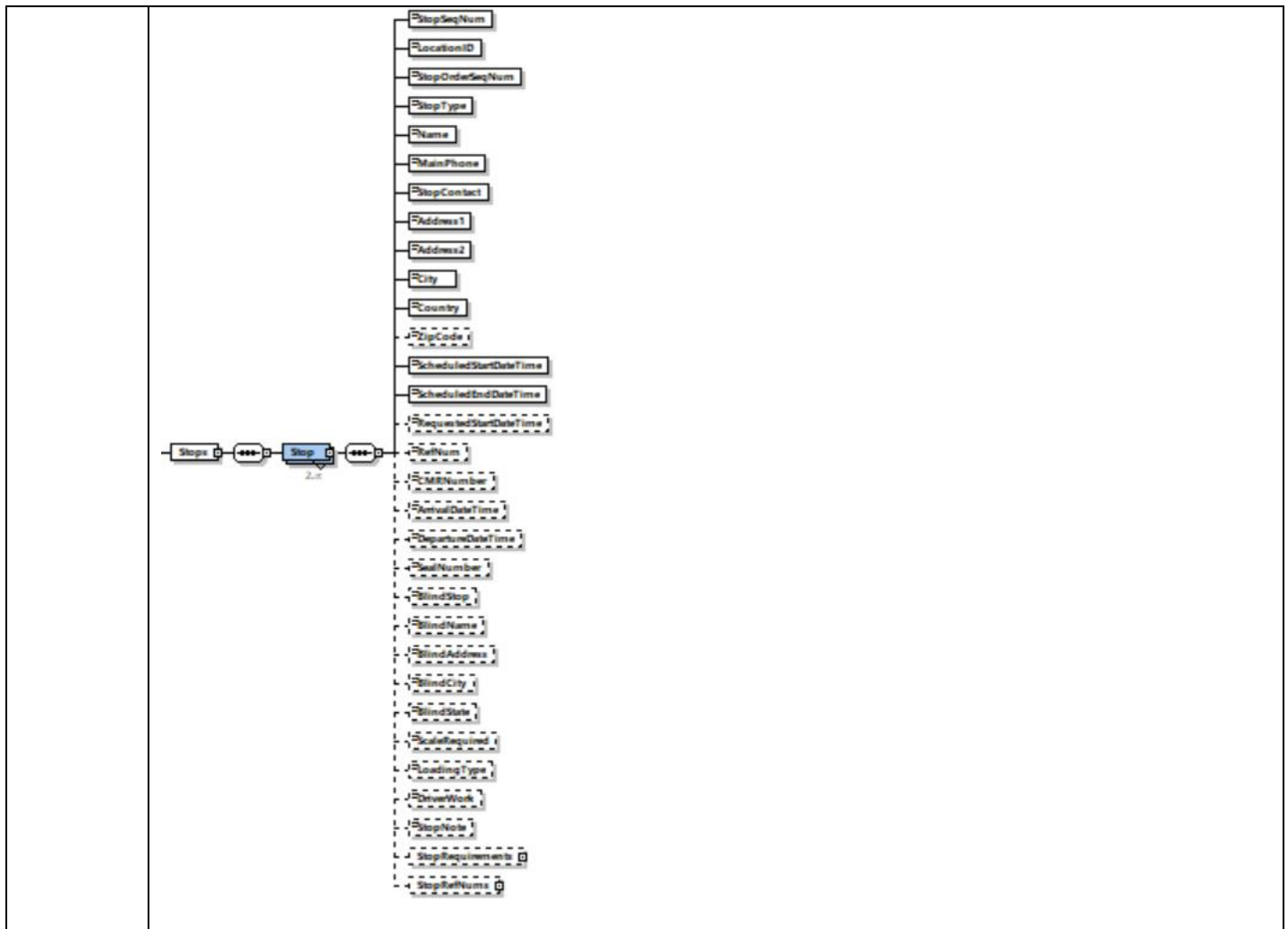
3.5 Stops

The **Stops** element contains information related to each pick-up and delivery location (stops). Every individual stop will be sent as a separate element. As a minimum of 2 stops are required for each shipment, 2 sections of **Stop** information will be present in the most basic message.

Element	Stops									
Properties	Min Use	1	Max Use	1	Min Children	2	Max Children	∞	Required	M

Element	Stop									
Properties	Min Use	2	Max Use	∞	Min Children	15	Max Children	31	Required	M

Diagram	
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<p>Sample</p>	<pre> <Stops> <Stop> <StopSeqNum>1</StopSeqNum> <LocationID>8187</LocationID> <StopOrderSeqNum>0</StopOrderSeqNum> <StopType>P</StopType> <Name>Johnson Controls Autobatterie Ceska Lipa - HALL B</Name> <MainPhone>+420.487807111</MainPhone> <StopContact>Antonin Olsar</StopContact> <Address1>Dubick 958,</Address1> <Address2>HALL B</Address2> <City>Ceska Lipa</City> <City>CZ</City> <Country>CZ</Country> <ZipCode>47090</ZipCode> <ScheduledStartDateTime>20170410061500</ScheduledStartDateTime> <ScheduledEndDateTime>20170410211500</ScheduledEndDateTime> <RequestedStartDateTime>201704102115</RequestedStartDateTime> <RefNum>938705</RefNum> <DriverWork>NT</DriverWork> <StopNote> ALL TRUCKS LOADING IN CESKA LIPA MUST HAVE ANTI-SLIDEMATS</StopNote> </Stop> </Stops> </pre>
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Sub Element	Min	Max	Required	Type	Length	Description	Example
StopSeqNum	1	1	M	N (Integer)	2	Unique Stop ID within the shipment	1
LocationID	1	1	M	AN (String)	10	C.H. Robinson Location ID	W90222948
StopOrderSeqNum	1	1	M	N (Integer)	2	Sequence number of the Stop in relation to all stops. (Ascending)	2
StopType	1	1	M	AN (String)	1	Type of Stop	P
Name	1	1	M	AN (String)	100	Location Name	LHR
MainPhone	1	1	M	AN (String)	25	Location Main Phone Number	+49.5117400150
StopContact	1	1	M	AN (String)	25	Location Contact	Adam Smith
Address1	1	1	M	AN (String)	100	Location Address	Units 8 & 9
Address2	1	1	O	AN (String)	100	Location Address	Blackthorne Crescent
City	1	1	M	AN (String)	60	Location City	Colebrook
State	1	1	M	AN (String)	60	Location State	GB
Country	1	1	M	AN (String)	2	Location Country	UK
ZipCode	0	1	O	AN (String)	10	ZIP or Postal Code	SL30QR
ScheduledStartDateTime	1	1	M	AN (String)	14	Scheduled Date & Time of Arrival at stop (Format: YMMDDHHMMSS)	20091229094510
ScheduledEndDateTime	1	1	M	AN (String)	14	Scheduled Date & Time of Departure at stop (Format: YMMDDHHMMSS)	20091229101515
RequestedStartDateTime	0	1	O	AN (String)	14	Requested Pickup or Delivery time (Format: YMMDDHHMMSS)	20091229111559
RefNum	0	1	O	AN (String)	50	Main Pickup or Delivery Reference	123456XY
CMRNumber	0	1	O	AN (String)	20	CMR Number	123456
ArrivalDateTime	0	1	O	AN (String)	14	Date & Time of Arrival at stop (Format: YMMDDHHMMSS)	20091229113057
DepartureDateTime	0	1	O	AN (String)	14	Date & Time of Departure at stop (Format: YMMDDHHMMSS)	20091229123055
SealNumber	0	1	O	AN (String)	50	Security Seal Number	45687965214
BlindStop	0	1	O	N	1	In case the actual	0

				(String)		shipper/consignee information should be disclosed, "Blind Stop" details will be provided here (Format: 1 / 0)	
BlindName	0	1	O	AN (String)	250	Blind Stop Company Name	
BlindAddress	0	1	O	AN (String)	250	Blind Stop Address	
BlindCity	0	1	O	AN (String)	60	Blind Stop City	
BlindState	0	1	O	AN (String)	2	Blind Stop State	
ScaleRequired	0	1	O	N (Boolean)	1	If Value is "1" Scale Infor is required for this stop (Format: 1 / 0)	0
LoadingType	0	1	O	AN (String)	10	(Un)Loading Requirements	REAR/SIDE
DriverWork	0	1	O	AN (String)	10	Driver Requirements	NT
StopNote	0	1	O	AN (String)	4000	Stop specific information	ALL TRUCKS LOADING ...
Notes							

3.5.1 StopRequirements

The **StopRequirements** element contains information related any special requirements that the carrier needs to observe while shipping the load.

Element	StopRequirements									
Properties	Min Use	0	Max Use	1	Min Children	1	Max Children	∞	Required	No



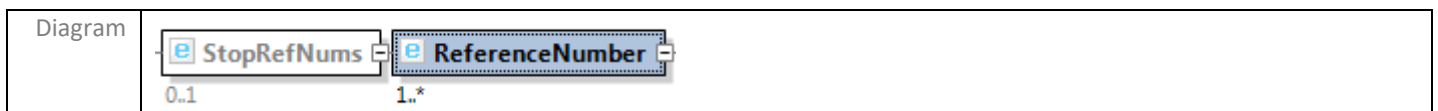
Sample	<pre> <StopRequirements> <StopRequirement>ALL TRUCKS LOADING IN CESKA LIPA MUST HAVE ANTI-SLIDEMATS</StopRequirement> </StopRequirements> </pre>
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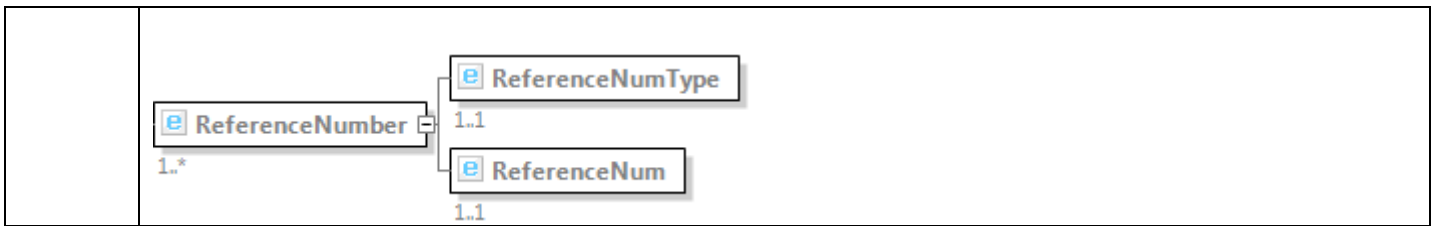
Sub Element	Min	Max	Required	Type	Length	Description	Example
StopRequirement	1	∞	M	AN (String)	1000	Stop specific requirements	ALL TRUCKS LOADING ...

3.5.2 StopRefNums

The **StopRefNums** element contains information related any stop specific reference numbers that the carrier needs to observe while shipping the load.

Element	StopRefNums									
Properties	Min Use	0	Max Use	1	Min Children	1	Max Children	∞	Required	No
Element	ReferenceNumber									
Properties	Min Use	1	Max Use	∞	Min Children	2	Max Children	2	Required	Yes





Sample

```

<StopRefNums>
<ReferenceNumber>
  <ReferenceNumType>PO</ReferenceNumType>
  <ReferenceNum>124516</ReferenceNum>
</ReferenceNumber>
</StopRefNums>
    
```

Sub Element	Min	Max	Required	Type	Length	Description	Example
RefNumType	1	1	M	AN (String)	256	Code used to identify type of reference number	PO
ReferenceNum	1	1	M	AN (String)	256	Reference number	124516

Notes

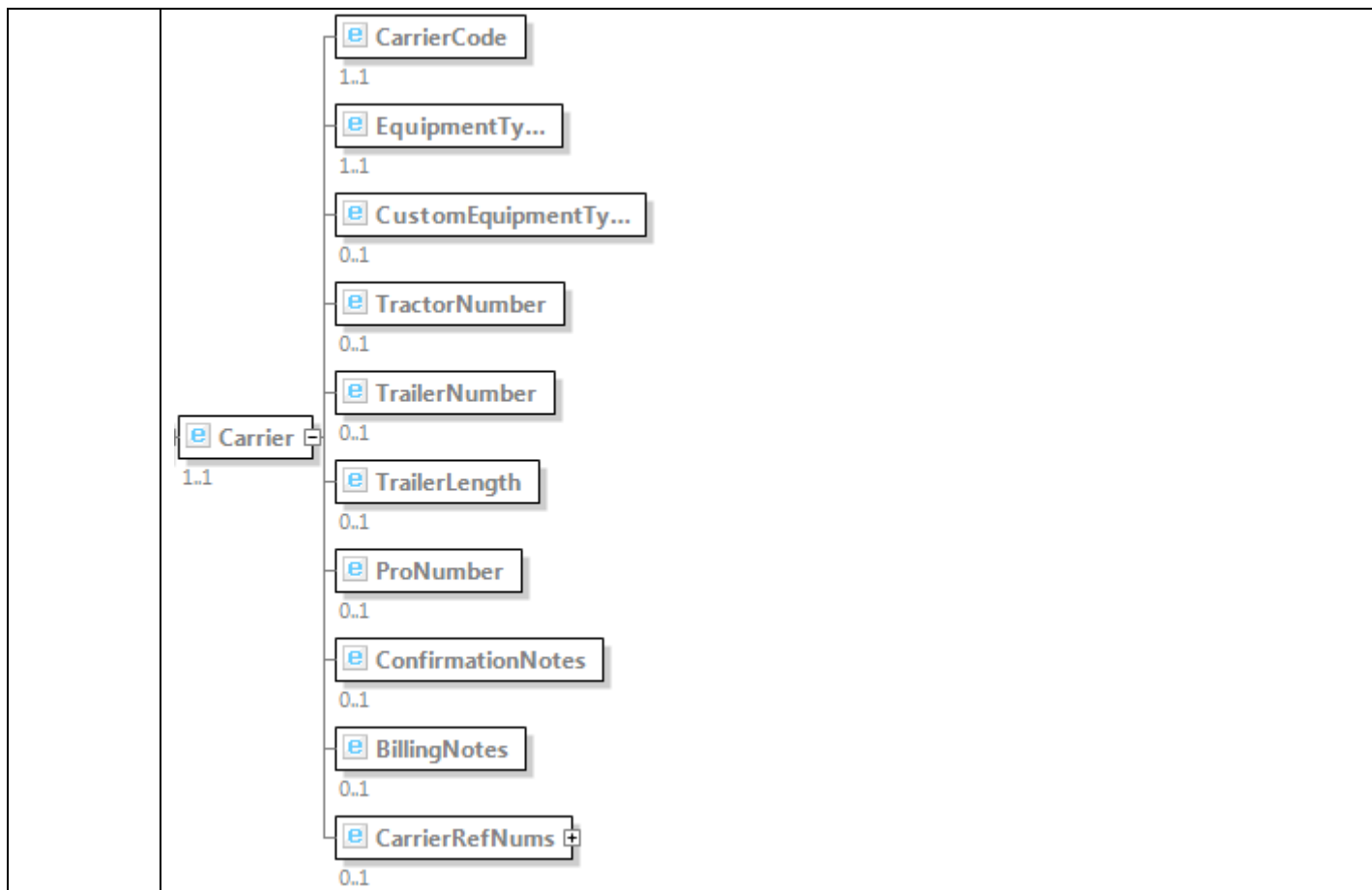
3.6 Carriers

The **Carriers** message Element includes basic carrier and carrier equipment information.

Element	Carriers									
Properties	Min Use	1	Max Use	1	Min Children	1	Max Children	1	Required	M

Element	Carrier									
Properties	Min Use	1	Max Use	1	Min Children	2	Max Children	10	Required	M





Sample	<pre> <Carriers> <Carrier> <CarrierCode>T9370971</CarrierCode> <EquipmentType>V</EquipmentType> <CustomEquipmentType/> <TrailerLength>45</TrailerLength> <ProNumber>1278/704/0058/001</ProNumber> </Carrier> </Carriers> </pre>
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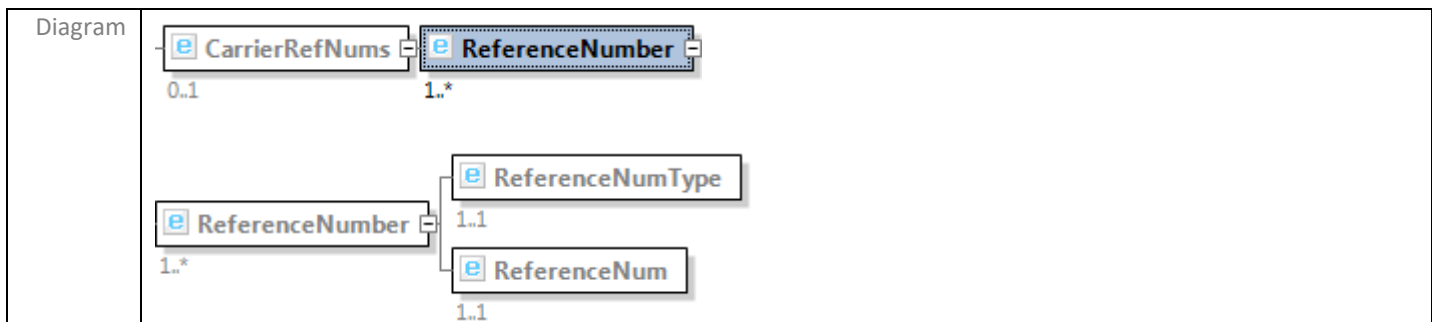
Element	Min	Max	Required	Type	Length	Description	Example
CarrierCode	1	1	M	AN (String)	256	CHR Carrier ID	T9014293
EquipmentType	1	1	M	AN (String)	256	Requested equipment type	T
TractorNumber	0	1	O	AN (String)	256	Tractor Registration Number	Y454THU
TrailerNumber	0	1	O	AN (String)	256	Trailer Registration Number	A450CAV
TrailerLength	0	1	O	N (String)	256	Trailer Length (Meter)	13.6
ProNumber	0	1	O	AN (String)	256	Carrier Shipment Reference Number	123456YHTE
ConfirmationNotes	0	1	O	AN (String)	256	Load Specific Notes	Text
BillingNotes	0	1	O	AN (String)	256	Invoice Requirements	Text

Notes

3.6.1 CarrierRefNums

The **CarrierRefNums** element contains information related any carrier specific reference numbers that the carrier needs to observe while shipping the load.

Element	CarrierRefNums									
Properties	Min Use	0	Max Use	1	Min Children	1	Max Children	∞	Required	No
Element	ReferenceNumber									
Properties	Min Use	1	Max Use	∞	Min Children	2	Max Children	2	Required	Yes



Sample	<pre> <CarrierRefNums> <ReferenceNumber> <ReferenceNumType>PO</ReferenceNumType> <ReferenceNum>112345</ReferenceNum> </ReferenceNumber> </CarrierRefNums> </pre>
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Sub Element	Min	Max	Required	Type	Length	Description	Example
RefNumType	1	1	M	AN (String)	256	Code used to identify type of reference number	PO
ReferenceNum	1	1	M	AN (String)	256	Reference number	124516

Notes

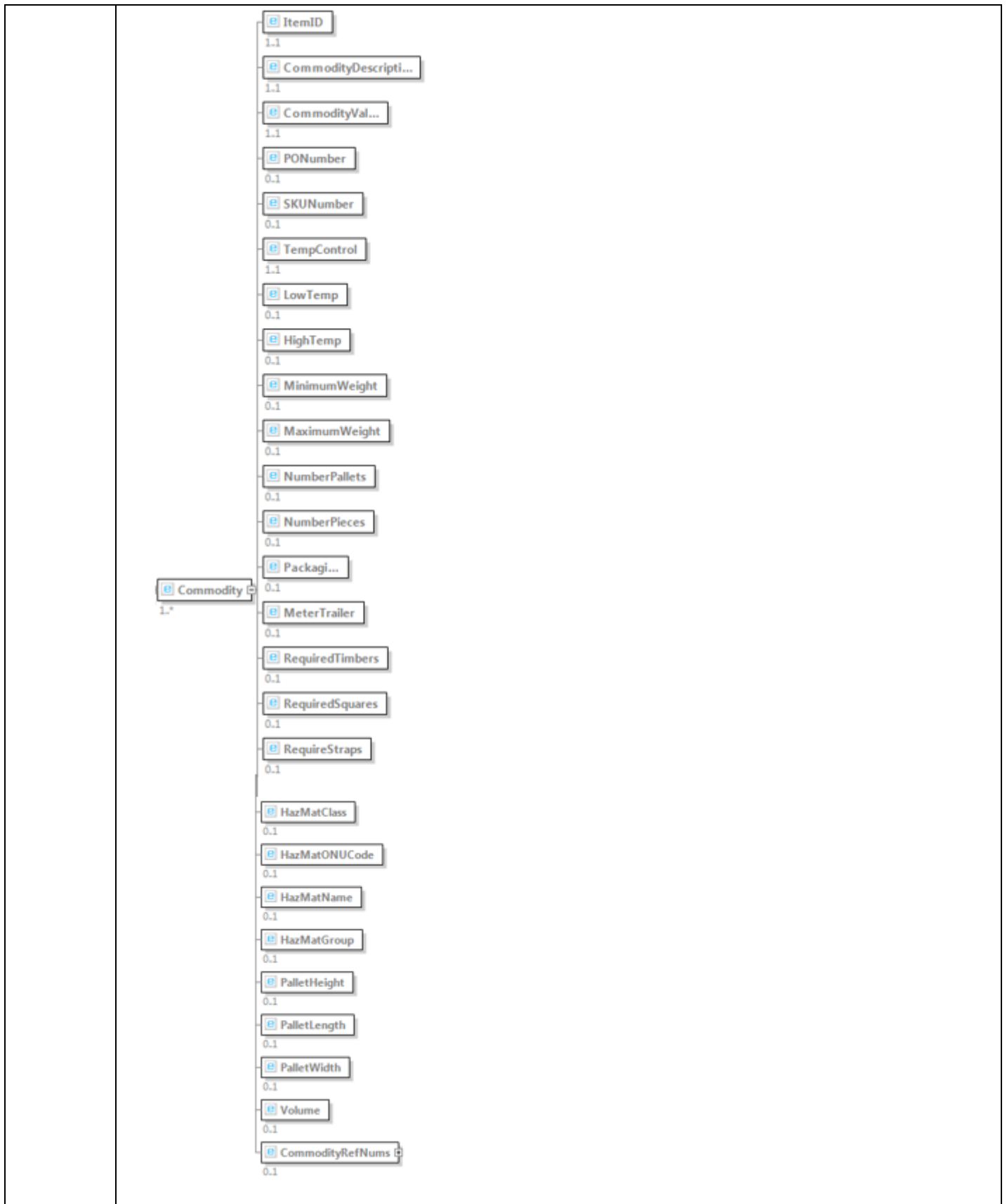
3.7 Commodities

The **Commodities** message Element includes all item information including pieces, pallets and/or meter of trailer. This Element describes the goods in transit, and highlights any special requirements. This message section will be included for each commodity. Multiple commodities can exist.

Element	Commodities									
Properties	Min Use	1	Max Use	1	Min Children	1	Max Children	∞	Required	M

Element	Commodity									
Properties	Min Use	1	Max Use	∞	Min Children	4	Max Children	22	Required	M





Sample	<pre> <Commodities> <Commodity> <ItemID>229643413-0</ItemID> <CommodityDescription>Battery,wet prefix 2</CommodityDescription> <CommodityValue>80000</CommodityValue> <PONumber>123456</PONumber> <SKUNumber>987654</SKUNumber> <TempControl>FALSE</TempControl> <LowTemp>-2</LowTemp> <HighTemp>10</HighTemp> <MinimumWeight>780</MinimumWeight> <MaximumWeight>780</MaximumWeight> <NumberPallets>10</NumberPallets> <NumberPieces>48</NumberPieces> <Packaging>PCS</Packaging> <MeterTrailer>13.6</MeterTrailer> <RequiredTimbers>9</RequiredTimbers> <RequiredStraps>0</RequiredStraps> <HazMatClass>3</HazMatClass> <HazMatONUCode>0197</HazMatONUCode> <HazMatName>Signals</HazMatName> <HazMatGroup>Very Dangerous Material</HazMatGroup> <PalletHeight>150 </PalletHeight> <PalletLenght>120 </PalletLenght> <PalletWidth>80 </PalletWidth> <Volume>0.00034 </Volume> <StackableFlag>1</StackableFlag> <CommodityRefNums> </CommodityRefNums> </Commodity> </Commodities> </pre>
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Sub Element	Min	Max	Required	Type	Length	Description	Example
ItemID	1	1	M	AN (String)	256	Reference number for item	229643413-0
CommodityDescription	1	1	M	AN (String)	256	Description of the Goods in Transit	Battery,wet prefix 2
CommodityValue	1	1	M	N (Decimal)	256	Cargo Value (in Local currency)	80000
PONumber	0	1	O	AN (String)	256	Commodity PO Number	123456
SKUNumber	0	1	O	AN (String)	256	Commodity SKU Number	987654
TempControl	1	1	M	AN (String)	256	Temp. controlled indicator; Value "TRUE" indicates temperature control is required (Format: TRUE / FALSE)	TRUE
LowTemp	0	1	C	AN (String)	256	Minimum Temperature (Celsius)	-2

HighTemp	0	1	C	AN (String)	256	Maximum Temperature (Celsius)	10
MinimumWeight	0	1	O	N (Decimal)	256	Minimum Weight (Kg)	150
MaximumWeight	0	1	O	N (Decimal)	256	Maximum Weight (Kg)	200
NumberPallets	0	1	O	N (Integer)	256	Number of Pallets	10
NumberPieces	0	1	O	N (Integer)	256	Number of Pieces	500
Packaging	0	1	O	AN (String)	256	Type of Packaging	PLT
MeterTrailer	0	1	O	N (Decimal)	256	Loading Meter	13.6
RequiredTimbers	0	1	O	N (Integer)	256	Number of required timbers	9
RequiredSquares	0	1	O	N (Integer)	256	Number of required squares	15
RequiredStraps	0	1	O	N (Integer)	256	Number of required straps	1
HazMatClass	0	1	O	AN (String)	256	ADR Classification	3
HazMatONUCode	0	1	O	AN (String)	256	ADR UN code	0197
HazMatName	0	1	O	AN (String)	256	ADR Description	Signals, smoke
HazMatGroup	0	1	O	AN (String)	256	ADR Group description	Very Dangerous Materials
PalletHeight	0	1	O	AN (String)	256	Pallet Height (in Cm)	150
PalletLength	0	1	O	AN (String)	256	Pallet Length (in Cm)	120
PalletWidth	0	1	O	AN (String)	256	Pallet Width (in Cm)	80
Volume	0	1	O	AN (String)	256	Pallet Volume in (Cubic meters)	.0034
StackableFlag	0	1	O	N (Integer)	1	Pallet Stackability	1

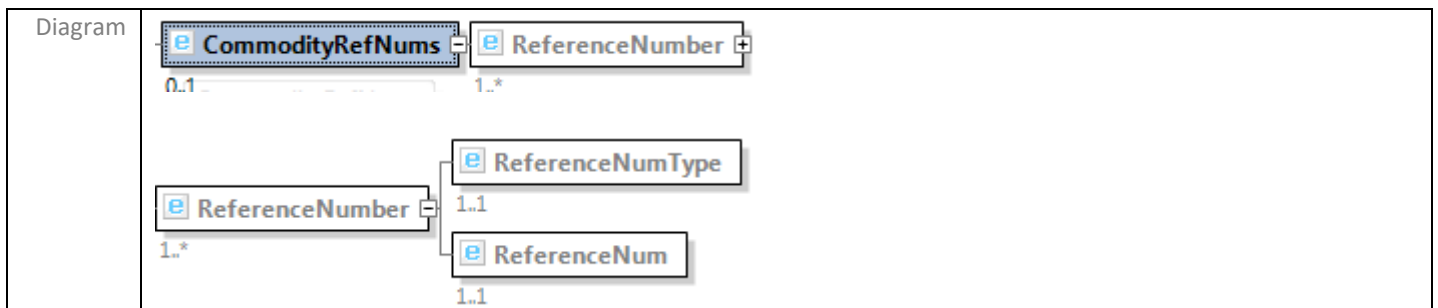
Notes	<ul style="list-style-type: none"> Packaging can be (but not limited to) one of the following possible codes: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #002060; color: white;">Code</th> <th style="background-color: #002060; color: white;">Description</th> <th style="background-color: #002060; color: white;">Code</th> <th style="background-color: #002060; color: white;">Description</th> </tr> </thead> <tbody> <tr><td>BAG</td><td>Bag</td><td>LNFT</td><td>Linear Foot</td></tr> <tr><td>BAL</td><td>Bale</td><td>LSE</td><td>Loose</td></tr> <tr><td>BDL</td><td>Bundle</td><td>LUG</td><td>Lug</td></tr> <tr><td>BGBAG</td><td>Big bags</td><td>OTHR</td><td>Other</td></tr> <tr><td>BIN</td><td>Bin</td><td>PAL</td><td>Pail</td></tr> <tr><td>BOT</td><td>Bottle</td><td>PANELS</td><td>panels</td></tr> <tr><td>BOX</td><td>Box</td><td>PCS</td><td>Pieces</td></tr> <tr><td>BULK</td><td>Bulk</td><td>PKG</td><td>Package</td></tr> <tr><td>BXT</td><td>Bucket</td><td>PLT</td><td>Pallets</td></tr> <tr><td>CA</td><td>Case</td><td>RCK</td><td>Rack</td></tr> <tr><td>CRT</td><td>Crate</td><td>REEL</td><td>Reels</td></tr> <tr><td>CTN</td><td>Carton</td><td>REL</td><td>Reels</td></tr> <tr><td>DRM</td><td>Drum</td><td>ROL</td><td>Roll</td></tr> <tr><td>DRUM</td><td>Drums</td><td>SAK</td><td>Sack</td></tr> <tr><td>DZ</td><td>Dozens</td><td>SKD</td><td>Skid</td></tr> </tbody> </table>	Code	Description	Code	Description	BAG	Bag	LNFT	Linear Foot	BAL	Bale	LSE	Loose	BDL	Bundle	LUG	Lug	BGBAG	Big bags	OTHR	Other	BIN	Bin	PAL	Pail	BOT	Bottle	PANELS	panels	BOX	Box	PCS	Pieces	BULK	Bulk	PKG	Package	BXT	Bucket	PLT	Pallets	CA	Case	RCK	Rack	CRT	Crate	REEL	Reels	CTN	Carton	REL	Reels	DRM	Drum	ROL	Roll	DRUM	Drums	SAK	Sack	DZ	Dozens	SKD	Skid
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DRUM	Drums	SAK	Sack																																																														
DZ	Dozens	SKD	Skid																																																														

EAC	Eaches	SKE	Skid, elevating or lift truck
GAL	Gallon	SLP	Slip Sheet
GYL	Gaylords	TLD	Intermodal Trailer/Container Load (Rail)
HDW	Hundred Weight (lbs)	TOT	Totes
IPLT	(Industrial) Pallets	TRY	Tray
JAR	Jar	TUB	Tub
LBS	Pounds	YD	Yards

3.7.1 CommodityRefNums

The **CommodityRefNums** element contains information related any additional commodity specific reference numbers that the carrier needs to observe while shipping the load.

Element	CommodityRefNums									
Properties	Min Use	0	Max Use	1	Min Children	1	Max Children	∞	Required	No
Element	ReferenceNumber									
Properties	Min Use	1	Max Use	∞	Min Children	2	Max Children	2	Required	Yes



```

<CarrierRefNums>
<CommodityRefNums>
<ReferenceNumber>
  <ReferenceNumType>PO</ReferenceNumType>
  <ReferenceNum>112345</ReferenceNum>
</ReferenceNumber>
</CommodityRefNums>
    
```

Sub Element	Min	Max	Required	Type	Length	Description	Example
RefNumType	1	1	M	AN (String)	256	Code used to identify type of reference number	PO
ReferenceNum	1	1	M	AN (String)	256	Reference number	112345

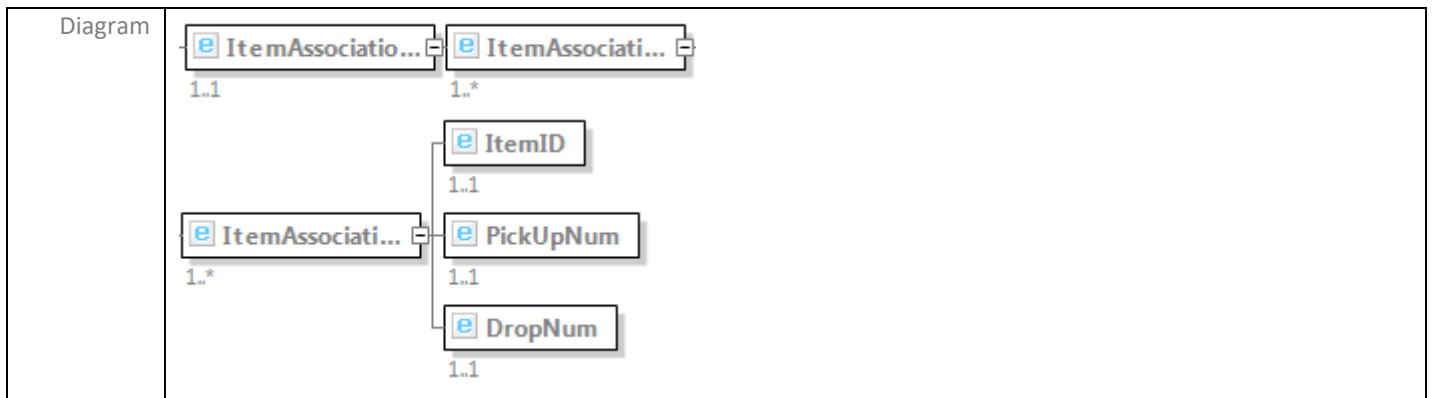
Notes	
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3.8 Item Associations

The **Item Associations** Element details how the items are associated to the various stops. Especially when there are multiple pickups or deliveries and details which item(s) is expected to be picked up at stop 1, stop 2, stop 3, etc. Essentially, it determines which goods are picked up what pickup location, and then delivered to which delivery location. There will be an Item Associations section for each item in the load.

Element	ItemAssociations									
Properties	Min Use	1	Max Use	1	Min Children	1	Max Children	∞	Required	M

Element	Item Association									
Properties	Min Use	1	Max Use	∞	Min Children	3	Max Children	3	Required	M



Sample	XML
	<pre> <ItemAssociations> <ItemAssociation> <ItemID>229643413-0</ItemID> <PickUpNum>0</PickUpNum> <DropNum>1</DropNum> </ItemAssociation> </ItemAssociations> </pre>

Sub Element	Min	Max	Required	Type	Length	Description	Example
ItemID	1	1	M	AN (String)	256	ItemID in Commodity Element	1512343-0
PickUpNum	1	1	M	N (Integer)	256	StopSeqNum of the Pickup Location	0
DropNum	1	1	M	N (Integer)	256	StopSeqNum of the Delivery Location	1

Notes

4. Useful Contacts

For questions send an email to CIT_Carrier_BA@chrobinson.com

There will be a separate and more specific contact when a project is created to implement the XML trading between partners and CH Robinson.

5. Appendices

Appendix A: Outbound XML EDI Schema



GlobalXML_Bookin
g.xsd

Appendix B: Example Messages

Outbound Messages

- 1A: Booking for a simple shipment (1 Pickup and 1 Delivery)



1A_Booking_Request_Simple.xml

- 1B: Booking for a complex shipment (1 Pickup and 3 Deliveries)



1B_Booking_Request_MultiStop.xml

Inbound Messages

- 2A: A Response (Accept) message to the above mentioned 1A



2A_IB_Response_Accept.xml

- 2B: A Response (Decline) message to the above mentioned 1B



2B_IB_Response_Decline.xml

- 3A: A Status Update (Vehicle Information) to the above mentioned 1A



3A_IB_Status_Vehicle_Information.xml

- 3B: A Status Update (Arrived and Departed Pickup Location) to the above mentioned 1A



3B_IB_Status_Arrived-at-Pickup.xml



3B_IB_Status_Departed-Pickup.xml

- 3C: A Status Update (Arrived and Departed Destination) to the above mentioned 1A



3C_IB_Status_Arrived-at-Destination.xml



3C_IB_Status_Departed-Destination.xml

- 4A: A Status Update (Shipment Delayed) to the above mentioned 1A



4A_IB_Status_Shipm
entDelay.xml