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MESSAGE IMPLEMENTATION GUIDE

TECHNICAL SPECIFICATION
FOR XML RESPONSE MESSAGE

Document Information

Document Name:	MESSAGE IMPLEMENTATION GUIDE TECHNICAL SPECIFICATION FOR XML RESPONSE MESSAGE
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Document Version No:	2.1
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Document Version Date:	December 23, 2014
Preparation Date:	December 23, 2014

Revision History

Version	Date	Author	Changes
1.0	05-02-2010	Chris Lifford	Create Document
1.1	19-02-2010	Chris Lifford	Changed Structure & Layout
1.2	23-02-2010	Chris Lifford	Added Message Content
1.3	25-02-2010	Chris Lifford	Updated Content & Layout
1.4	03-03-2010	Chris Lifford	Added Fields & Tables
1.5	05-03-2010	Chris Lifford	Added Tables & Example Messages
1.6	08-03-2010	Chris Lifford / Pjotr Horowitz	Final Review. Layout, table of content, text highlights
1.7	12-08-2010	Chris Lifford	Updated Commodity Value
1.8	26-08-2010	Chris Lifford	Added Stop Notes to the Stop Element
2.0	01-07-2011	Steven Verhulst	Split document per message; Changed Layout; updated data types, added Diagrams; added new samples
2.1	28-04-2015	Vijay Jayanthi	Updated XSD file for TaxId .

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1. Introduction

This document is intended for business and technical personnel engaged in establishing an electronic connection with CHR for the purpose of transmitting a XML EDI **Response message** to a received Load Booking (Call-Off).Separate Implementation Guides have been created for the Booking (Call Off) 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 CHR and a Carrier

1. **Outbound Message (CHR to Carrier):**

   - **Load Booking (Call-Off)** – CHR 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.

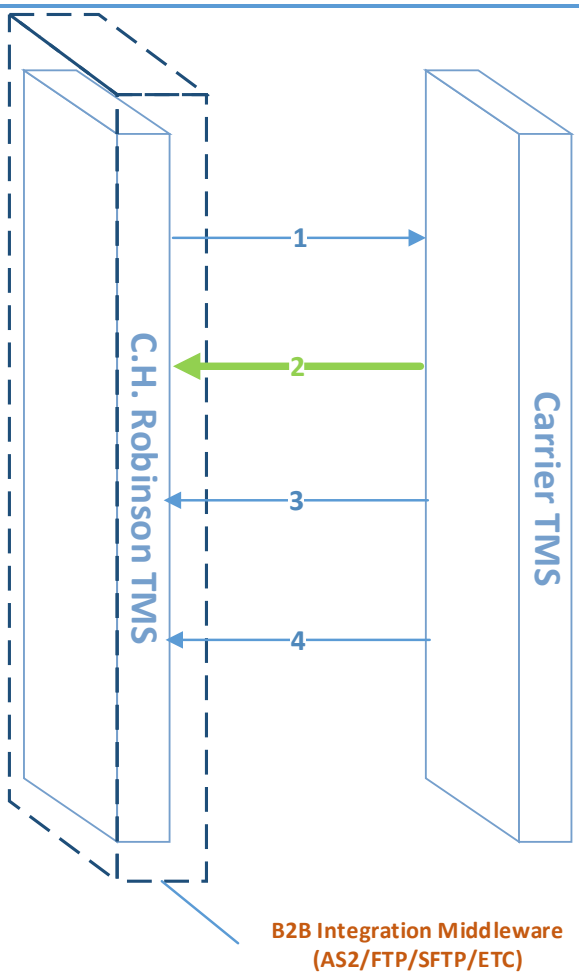
2. **Inbound Message (Carrier to CHR):**

   - **Response to Load Booking** – The carrier sends CHR a response to the received load booking (accept or decline).
   - **Shipment Status Updates** – The carrier sends CHR 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 CHR and a carrier.

System Interface Map:

1. Shipment Tender (includes item location elements)
2. **Shipment Response (Accept / Reject)**
3. Shipment Status – Driver & Vehicle Details
4. Shipment Status – Pickup, In-Transit, Delivery



1. CHR will send a Load booking to a carrier
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 dotted lines represent optional data elements while solid lines represent mandatory/required 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).
- Elements marked bold will be referenced in the Notes of each section

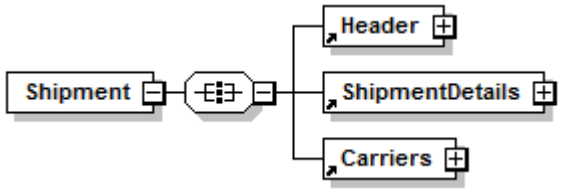
3. Response Message

The response and status update messages share the same basic XML schema. The type of message determines which elements are mandatory or optional. Any differences in application of these elements will be highlighted.

3.1 Shipment

The **Shipment** Element is the root element for the XML message

Element	**Header**									
Properties	Min Use	1	Max Use	1	Min Children	3	Max Children	3	Required	M

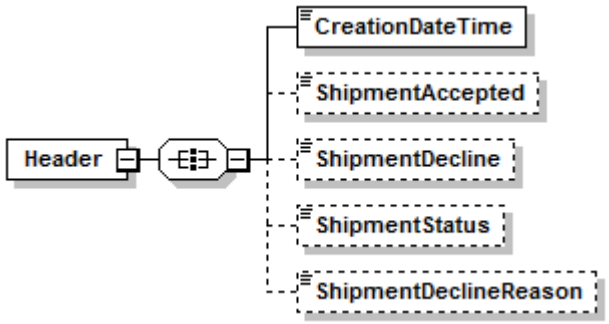
Diagram	

3.2 Header

The **Header** part of the message indicates the type of message and basic information about the date and time of creation. Only one of the three status flags should be set to “1”, the others should show “0”.

Element	Header									
Properties	Min Use	1	Max Use	1	Min Children	2	Max Children	5	Required	M

Diagram



Sample

```
<Header>
        <CreationDateTime>20110110144343</CreationDateTime>
        <ShipmentAccepted>0</ShipmentAccepted>
        <ShipmentDecline>1</ShipmentDecline>
        <ShipmentStatus>0</ShipmentStatus>
        <ShipmentDeclineReason>CAPACITY</ ShipmentDeclineReason >
</Header>
```

Sub Element	Min	Max	Required	Type	Length	Description	Example
CreationDateTime	1	1	M	AN (String)	14	Document Creation Date & Time (Format: YYYYMMDDHHMMSS)	200912301425
ShipmentAccepted	1	1	C	N (String)	1	If Value is "1" Flag indicates Shipment Accepted. If value is 0 then data element is not mandatory (Valid values: 1 or 0)	0
ShipmentDecline	1	1	C	N (String)	1	If Value is "1" Flag indicates Shipment Declined. If value is 0 then data element is not mandatory (Valid values: 1 or 0)	1
ShipmentStatus	1	1	C	N (String)	1	If Value is "1" Flag indicates Shipment Status Update. If value is 0 then data element is not mandatory (Valid values: 1 or 0)	0
ShipmentDeclineReason	**0**	**1**	**O/C**	**AN (String)**	**10**	**Reason codes, required when ShipmentDecline is “1”**	**CAPACITY**

Notes

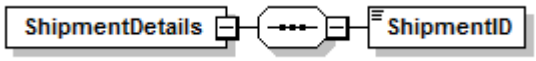
- **ShipmentDeclineReason** should contain one of the following reason codes:

  CAPACITY - No Capacity Available
  DELAPPT - Delivery Date / Time
  EQUIPMENT - Equipment
  HOLIDAY - Holidays
  LEADTIME- Not enough lead time
  OTHER - Other
  TRANSIT - Transit time
  WEIGHT - Weight too high

3.3 Shipment Details

The **Shipment Details** Element of the message contains basic information about the shipment.

Element	**Header**									
Properties	Min Use	1	Max Use	1	Min Children	1	Max Children	5	Required	M

Diagram	

Sample	<ShipmentDetails> <ShipmentID>31284583</ShipmentID> <ShipmentDetails>

Sub Element	Min	Max	Required	Type	Length	Description	Example
ShipmentID	1	1	M	N (String)	10	CHR Load Number	30792334

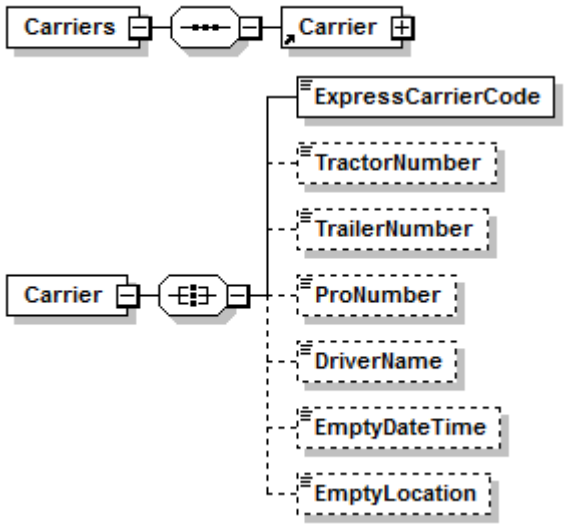
3.3 Carriers

This Element contains **carrier** specific information. Optionally the carrier can transmit Driver, Vehicle and shipment reference (PRO Number) information. If provided, the PRO Number will be printed on the self-bill (if applicable).

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

Element	Carrier									
Properties	Min Use	1	Max Use	1	Min Children	1	Max Children	7	Required	Yes

Diagram



Sample

```
<Carriers>
    <Carrier>
        <ExpressCarrierCode>T9370971</ExpressCarrierCode>
        <TractorNumber>4U44478</TractorNumber>
        <TrailerNumber>4U26774</TrailerNumber>
        <ProNumber>1377/103/0167/001</ProNumber>
        <DriverName>John Smith</DriverName>
        <EmptyDateTime>20091231090000</EmptyDateTime>
        <EmptyLocation>Shanghai</EmptyLocation>
    </Carrier>
</Carriers>
```

Sub Element	Min	Max	Required	Type	Length	Description	Example
ExpressCarrierCode	1	1	M	AN (String)	10	CHR Carrier ID	T9014293
TractorNumber	0	1	O	AN (String)	25	Tractor Registration Number	Y678HGT
TrailerNumber	0	1	O	AN (String)	25	Trailer Registration Number	TR123456
ProNumber	0	1	O	AN (String)	20	Carrier Shipment Reference Number	123456789X
DriverName	0	1	O	AN (String)	20	Driver Name	Charles Robinson
EmptyDateTime	0	1	O	AN (String)	14	Actual Date & Time of Vehicle now available (Format: YYYYMMDDHHMMSS)	20091231090000
EmptyLocation	0	1	O	AN	60	Actual Location of Vehicle now	Leeds, UK

				(String)		available	

4. Useful Contacts

For questions regarding EDI implementations, send an email to - EuropeBA@chrobinson.com

For questions regarding EDI production support, send an email to - EuropeanEDISupport@chrobinson.com

EDI Hotline: **+33 (0)231465230**

5. Appendices

Appendix A: Connection Details

Supported Connection types

- As2 (Preferred)
- FTP/sFTP

Appendix B: Inbound XML EDI Schema

Inbound Carrier EDI - Response and Stat

Appendix C: Example Messages

Outbound Messages

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

1A_Booking_Request_Simple.xml

- 1B: Booking (Call-Off) for a complex shipment (1 Pickup and 2 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 at Pickup Location) to the above mentioned 1A

3B_IB_Status_Arrived-at-Pickup.xml

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

3C_IB_Status_Arrived-at-Destination.xm