Document Information

Document Name: MESSAGE IMPLEMENTATION GUIDE
TECHNICAL SPECIFICATION FOR XML RESPONSE MESSAGE

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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 an 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 Diagram]

- 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

<table>
<thead>
<tr>
<th>Element</th>
<th>Properties</th>
<th>Min Use</th>
<th>Max Use</th>
<th>Min Children</th>
<th>Max Children</th>
<th>Required</th>
</tr>
</thead>
</table>

Diagram:

```
  +----------+          +----------------+          +----------------+
  | Header   |        | ShipmentDetails |        | Carriers     |
  +----------+          +----------------+          +----------------+
    | Shipment |          |                  |          |              |
```

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”.

<table>
<thead>
<tr>
<th>Element</th>
<th>Header</th>
</tr>
</thead>
<tbody>
<tr>
<td>Properties</td>
<td>Min Use</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

**Diagram**

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

**Sub Element**

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

**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.

<table>
<thead>
<tr>
<th>Element</th>
<th>Header</th>
</tr>
</thead>
<tbody>
<tr>
<td>Properties</td>
<td>Min Use</td>
</tr>
<tr>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

#### Diagram

![Diagram](image)

#### Sample

```
<ShipmentDetails>
  <ShipmentID>31284583</ShipmentID>
</ShipmentDetails>
```

#### Sub Element

<table>
<thead>
<tr>
<th>Sub Element</th>
<th>Min</th>
<th>Max</th>
<th>Required</th>
<th>Type</th>
<th>Length</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>ShipmentID</td>
<td>1</td>
<td>1</td>
<td>M</td>
<td>N (String)</td>
<td>10</td>
<td>CHR Load Number</td>
<td>30792334</td>
</tr>
</tbody>
</table>
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).

<table>
<thead>
<tr>
<th>Element</th>
<th>Carriers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Properties</td>
<td>Min Use</td>
</tr>
<tr>
<td>Carrier</td>
<td>1</td>
</tr>
</tbody>
</table>

Sample

```xml
<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>
```

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

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.xml`