



Transport Inbound XML Specifications

Version 1.4.0

1. Purpose

This document outlines the EDI specific fields that are required to allow an XML file to be imported into the Mainfreight TMS directly.

2. Manifest Message Group Elements

2.1 Structure

Status

M = Mandatory

C = Conditional

D = Dependant. Usage is based on another field.

DM = Mandatory if the Group Element is used

Type

an..10 = Alphanumeric, up to 10 characters

an..20 = Alphanumeric, up to 20 characters

an..19 = Alphanumeric, up to 19 characters

an..50 = Alphanumeric, up to 50 characters

an..150 = Alphanumeric, up to 150 characters

an..200 = Alphanumeric, up to 200 characters

an..255 = Alphanumeric, up to 255 characters

n..6 = Numeric, up to 10 digits with no decimal

n..10 = Numeric, up to 10 digits with no decimal

n..13.2 = Numeric, up to 10 digits (plus an optional point and up to 2 decimal places)

TAG	Status	Repetition	Type	Notes
<Message>	M	1	Root	
<MessageHeader>	M	1	Group	
<Shipments>	M	1	Group	
<Shipment>	M	1..n	Group	
<HousebillNumber>	C	1	an..50	Maximum 14 alphanumeric characters. Prefixes must be confirmed with Mainfreight IT team and account manager
<TransportMode>	C	1	an..50	ROAD
<ServiceLevel>	C	1	an..50	Transport Services: LCL, MSD, PRM, PLA, FTL, MOV, M2H, B2B, EXP If blank or missing, the Service Level will calculate based on details provided.
<RoutingType>	C	1	an..50	Routing Type Services: LCL, MET, METDTC, FTLJOB If blank or missing, the Routing Type will calculate based on details provided.
<FreightTerms>	M	1	an..50	Freights Terms detail below: <ul style="list-style-type: none"> - DP2D – Required if customer is dropping in to a DEPOT but requires a Delivery to be made - D2DP – Required if customer wants the freight to be picked up from the Delivery site - DP2DP – Required if customer is dropping in to a DEPOT and then getting another party to pick up from the Delivery Site
<Customer>	M	1	Group	Billing account
<Pickup>	M	1	Group	Sender details
<Delivery>	M	1	Group	Recipient of goods
<Notes>	C	1	Group	Pickup and Delivery instructions
<References>	C	1	Group	
<Goods>	M	1	Group	
<DGSignatory>	C	1	Group	
<Hire>	C	1	Group	
</Shipment>	C	1	Group	
</Shipments>	C	1	Group	
</Message>				

2.2 Group Elements

TAG <MessageHeader>1	Status	Repetition	Type	Notes
<MessageHeader>	M	1		
<Sender>	M	1	an..10	CustomerName + SourceSystem
<Action>	M	1	an..50	NEW
</MessageHeader>				

TAG <Customer>1	Status	Repetition	Type	Notes
<Customer>	M	1		
<Code>	M	1	an..50	Billing account To be confirmed with account manager
</Customer>				

TAG <Pickup> 1	Status	Repetition	Type	Notes
<Pickup>	M	1		See Pickup and Delivery / Field Matrix
<Code>	M	1	an..50	Pickup code To be confirmed with account manager
<Name>	M	1	an..50	
<StreetName>	M	1	an..50	
<StreetName2>	C	1	an..50	
<Suburb>	C	1	an..50	
<City>	M	1	an..50	
<State>	C	1	an..50	
<Zip>	C	1	an..50	
<GPSLocation>	C	1	Group	GPS Location Detail
<Residential>	C	1	an...5	TRUE or FALSE
<Contact>	C	1	an..50	
<ContactPhone>	C	1	an..150	
<ContactPhoneExtension>	C	1	an..20	
<ContactEmail>	C	1	an..200	
<ReadyTo>	M	1	an..19	Date and Time (format: yyyy-mm-ddThh:mm:ss, eg 2012-12-25T05:30:00)
</Pickup>				

TAG <Delivery> 1	Status	Repetition	Type	Notes
<Delivery>	M	1		See Pickup and Delivery / Field Matrix
<Code>	C	1	an..50	Delivery code To be confirmed with Account manager
<Name>	M	1	an..50	
<StreetName>	M	1	an..50	
<StreetName2>	C	1	an..50	
<Suburb>	M	1	an..50	
<City>	M	1	an..50	
<State>	C	1	an..50	
<Zip>	C	1	an..50	
<GPSLocation>	C	1	Group	GPS Location Detail
<Residential>	C	1	an...5	TRUE or FALSE
<Contact>	C	1	an..50	
<ContactPhone>	C	1	an..150	
<ContactPhoneExtension>	C	1	an..20	
<ContactEmail>	C	1	an..200	
<Residential>	C	1	an..200	
<Timeslot>	C	1	an...5	TRUE or FALSE Please confirm with Account Manager before using
<RequiredFrom>	C	1	an..19	Date and Time (format: yyyy-mm-ddThh:mm:ss, eg 2012-12-25T05:30:00) - Required if <Timeslot> is TRUE Please confirm with Account Manager before using
<RequiredTo>	C	1	an..19	Date and Time (format: yyyy-mm-ddThh:mm:ss, eg 2012-12-25T05:30:00) - Required if <Timeslot> is TRUE - Required if <RequiredFrom> is used Please confirm with Account Manager before using
</Delivery>				

TAG - <GPSLocation> 1	Status	Repetition	Type	Notes
<GPSLocation>	C	1		

<Latitude>	DM	1	n..10.10	Latitude
<Longitude>	DM	1	n..10.10	Longitude
</GPSLocation >				

TAG - <Notifications> 1..20	Status	Repetition	Type	Notes
<Notifications>	C	1		
<Notification>	DM	1..20		
<Event>	DM	1	an..255	Please refer section 3.2 below
<ToAddress>	DM	1	an..255	Email Address
<TransportType>	DM	1	an..255	Default to Email SMS is available but needs to be organised with Account Manager
</Notification>	DM			
</Notes>				

TAG - <Notes> 1..2	Status	Repetition	Type	Notes
<Notes>	C	1		
<Note>	DM	1..2	an..255	Note (C) JobType = "Pickup" Type="Info" (C) JobType = "Delivery" Type="Instructions"
</Notes>				

TAG <References> 1..20	Status	Repetition	Type	Notes
<References>	C	1		
<Reference>	DM	1..20	an..12	Reference (C) Type = "REC" (C) Type = "SEN"
</References>		1	an..200	

TAG <DG Signatory> 1	Status	Repetition	Type	Notes
<DGSignatory>	C	1		
<Name>	DM	1	an..50	
<Title>	DM	1	n..10.10	
<Location>	DM	1	n..10.10	
<Signature>	DM	1	an..50	
<EmergencyPh>	DM	1	an..150	
</DGSignatory>				

TAG - <Hire> 1..2	Status	Repetition	Type	Notes
<Hire>	C	1		
<Line>	DM	1..2		
<Supplier>	DM	1	an..10	C – Chep L - Loscam
<PalletType>	DM	1	an..10	P – Pallet
<TransactionType>	DM	1	an..10	New Zealand T – Transfer Australia R - Retrieval
<Account>	C	1	an..50	
<FromAccount>	C	1	an..50	
<Quantity>	DM	1	n..10	
</Line>				
</Hire>				

2.3 Pickup and Delivery / Field Matrix

Field	Pickup	Delivery
<Code>	C	C
<Name>	C	M
<StreetName>	C	M
<StreetName2>	C	C
<Suburb>	(C) New Zealand (C) Australia	(C) New Zealand (M) Australia
<City>	(C) New Zealand (C) Australia	(M) New Zealand (M) Australia
<State>	(N/A) New Zealand (C) Australia	(N/A) New Zealand (M) Australia
<Zip>	(N/A) New Zealand (C) Australia	(N/A) New Zealand (M) Australia

- If the Pick up Code only is supplied, we will look up the code in the database. If a match is found, the remaining details will be populated for you. This does not work for Delivery Code

2.4 Line Items

TAG - <LINE> 1..60	Status	Repetition	Type	Notes
<Goods>				
<Line>	M	1..60		
<Pieces>	C	1	n..10	
<PackType>	C	1	an..10	Please refer to section 3.1 below
<Description>	M	1	an..50	
<Weight>	DM	1	n..6	
<Length>	C	1	n..13.2	Must not be EMPTY
<Width>	C	1	n..13.2	Must not be EMPTY
<Height>	C	1	n..13.2	Must not be EMPTY
<Volume>	DM	1	n..13.2	
<DangerousGoods>	C	1	Group	
<Items>	C	1	Group	
</Line>				
</Goods>				

TAG - <DangerousGoods> 1	Status	Repetition	Type	Notes
<DangerousGoods>		1		
<DGClass>	DM	1	an..50	
<UNNumber>	DM	1	an..50	
<Variant>	C	1	an..50	
<ProperName>	C	1	an..255	
<CommonName>	C	1	an..255	
<SubRisk>	C	1	an..50	
<TertiarySubRisk>	C	1	an..50	
<Hazchem>	C	1	an..50	
<PackingGroup>	C	1	an..50	
<Flashpoint>	C	1	an..50	
<AddInfo>	C	1	an..50	
<PackageType>	C	1	an..50	
<PackageInstruction>	C	1	an..50	

<MarinePollutant>	C	1	an..50	
<AcidAlkali>	C	1	an..50	
<Validated>	C	1	an..50	
</DangerousGoods>				

TAG - <Items> 1	Status	Repetition	Type	Note
<Items>				
<Item>	M	1.. 250		
<ItemNumber>	C	1	an...50	Customers Own ItemNumber (Non-SSCC) If EMPTY , Mainfreight will insert unique number
<SSCCNumber>	C	1	n..18	SSCC Number
<PackType>	M	1	an..10	Please refer to section 3.1 below
<Description>	M	1	an..50	
<Weight>	DM	1	n..6	
<Length>	C	1	n..13.2	Must not be EMPTY
<Width>	C	1	n..13.2	Must not be EMPTY
<Height>	C	1	n..13.2	Must not be EMPTY
<Volume>	DM	1	n..13.2	
</Item>				
</Items>				

2.5 Shipment Sample

```
<Message>
<MessageHeader>
  <Sender>SENDER</Sender>
  <Action>New</Action>
</MessageHeader>
<Shipments>
  <Shipment>
    <HousebillNumber>TEST00123</HousebillNumber>
    <TransportMode>ROAD</TransportMode>
    <ServiceLevel>LCL</ServiceLevel>
    <RoutingType>LCL</RoutingType>
    <FreightTerms>D2D</FreightTerms>
    <Customer>
      <Code>TESTCC</Code>
    </Customer>
    <Pickup>
      <Code>TESTSENDC</Code>
      <Name>Test Customer - Sender</Name>
      <StreetName>13 Elm Street</StreetName>
      <StreetName2>13 Elm Street</StreetName2>
      <Suburb>Penrose</Suburb>
      <City>AUCKLAND</City>
      <Zip>1061</Zip>
      <GPSLocation>
        <Latitude>-36.915347</Latitude>
        <Longitude>174.818018</Longitude>
      </GPSLocation>
      <Residential>FALSE</Residential>
      <Contact>Hulk Hogan</Contact>
      <ContactPhone>098341111</ContactPhone>
      <ContactPhoneExtension>879</ContactPhoneExtension>
      <ContactEmail>mainfreight@test.com</ContactEmail>
      <ReadyTo>2018-09-02T17:00:00</ReadyTo>
    </Pickup>
    <Delivery>
      <Code>TESTRECC</Code>
      <Name>Test Customer - Receiver</Name>
      <StreetName>123 Nowhere Ave</StreetName>
      <StreetName2>CNR of Nowhere and Elm</StreetName2>
      <Suburb>Hornby</Suburb>
      <City>CHRISTCHURCH</City>
```

<Zip>8025</Zip>
<GPSLocation>
 <Latitude>-43.542161</Latitude>
 <Longitude>172.558158</Longitude>
</GPSLocation>
<Residential>TRUE</Residential>
<Contact>Hulk Hogan</Contact>
<ContactPhone>038796112</ContactPhone>
<ContactPhoneExtension>879</ContactPhoneExtension>
<ContactEmail>mainfreighttest@test.com</ContactEmail>
<Timeslot>TRUE</Timeslot>
<RequiredFrom>2019-11-17T10:00:00</RequiredFrom>
<RequiredTo>2019-11-17T13:00:00</RequiredTo>
</Delivery>
<Notes>
 <Note JobType="Pickup" Type="Info">Test Instructions</Note>
 <Note JobType="Delivery" Type="Instructions">Test Instructions</Note>
</Notes>
<References>
 <Reference Type="REC">0092647078A</Reference>
 <Reference Type="SEN">0092647078A</Reference>
 <Reference Type="SEN">00926470781A</Reference>
</References>
<Goods>
 <Line>
 <Pieces>2</Pieces>
 <PackType>PLT</PackType>
 <Description>Palleted Goods</Description>
 <Weight>1000</Weight>
 <Length>2.0</Length>
 <Width>2.0</Width>
 <Height>2.0</Height>
 <Volume>2.0</Volume>
 <DangerousGoods>
 <DGClass>3</DGClass>
 <UNNumber>1123</UNNumber>
 <Variant>1</Variant>
 <ProperName>BUTYL </ProperName>
 <CommonName>DESMOPH</CommonName>
 <SubRisk>1</SubRisk>
 <TertiarySubRisk>2</TertiarySubRisk>
 <Hazchem>3[Y]</Hazchem>
 <PackingGroup>III</PackingGroup>

```
<Flashpoint>52</Flashpoint>
<AddInfo>DO NOT STORE IN DIR</AddInfo>
<PackageType>METAL DRUM</PackageType>
<PackageInstruction/>
<MarinePollutant>N</MarinePollutant>
<AcidAlkali/>
<Validated>Y</Validated>
</DangerousGoods>
<Items>
  <Item>
    <ItemNumber/>
    <SSCCNumber/>
    <PackType>PLT</PackType>
    <Description>Pallet of Goods</Description>
    <Weight>500</Weight>
    <Length>1</Length>
    <Width>1</Width>
    <Height>1</Height>
    <Volume>1</Volume>
  </Item>
  <Item>
    <ItemNumber/>
    <SSCCNumber/>
    <PackType>PLT</PackType>
    <Description>Pallet of Goods</Description>
    <Weight>500</Weight>
    <Length>1</Length>
    <Width>1</Width>
    <Height>1</Height>
    <Volume>1</Volume>
  </Item>
</Items>
</Line>
<Line>
  <Pieces>1</Pieces>
  <PackType>CTN</PackType>
  <Description>Carton of Goods</Description>
  <Weight>50</Weight>
  <Length>0.3</Length>
  <Width>0.3</Width>
  <Height>0.3</Height>
  <Volume>0.3</Volume>
</Items>
```

```
        <Item>
            <ItemNumber/>
            <SSCCNumber/>
            <PackType>PLT</PackType>
            <Description>Pallet of Goods</Description>
            <Weight>50</Weight>
            <Length>0.3</Length>
            <Width>0.3</Width>
            <Height>0.3</Height>
            <Volume>0.3</Volume>
        </Item>
    </Items>
</Line>
</Goods>
<DGSignatory>
    <Name>TEST DG</Name>
    <Title>Dispatch</Title>
    <Location>160 TEST STREET</Location>
    <Signature>TEST DG</Signature>
    <EmergencyPh>094129957</EmergencyPh>
</DGSignatory>
<Hire>
    <Line>
        <Supplier>C</Supplier>
        <PalletType>B</PalletType>
        <TransactionType>T</TransactionType>
        <Account>12345678</Account>
        <FromAccount>12345678</FromAccount>
        <Quantity>2</Quantity>
    </Line>
</Hire>
<Notifications>
    <Event>StatusUpdateShipmentPickedUp</Event>
    <ToAddress>mainfreighttest@test.com</ToAddress>
    <TransportType>Email</TransportType>
</Notifications>
</Shipment>
</Shipments>
</Message>
```

3. Data Code Lists

3.1 PackType Code List

- New Zealand Supported Commodities/Pack Types

Pack Type Code	Description
BAG	BAG
BDL	BUNDLE
CTN	CARTON
DRM	DRUM
IBC	IBC
ITEM	ITEM
PAIL	PAIL
PLT	PALLET
ROLL	ROLL
ST	STILLAGE

- Australia Supported Commodities/Pack Types

Pack Type Code	Description
BAG	BAG
BDL	BUNDLE
CRT	CRATE
CTN	CARTON
DRM	DRUM
IBC	IBC
ITEM	ITEM
PAIL	PAIL
PK	PACK
PLT	PALLET
ROLL	ROLL
SK	SKID
ST	STILLAGE

3.2 Notifications Event List

Events (For XML)	Event Status Name	Description
StatusUpdateShipmentPickedUp	Picked Up	Updated as Picked Up
StatusUpdateShipmentOutForDelivery	Out for Delivery	On Delivery Vehicle
StatusUpdateShipmentDelivered	Delivered	Updated as Delivered
StatusUpdateShipmentPODReceivedHardCopy	Delivery Imaged POD	POD document has been uploaded

4. XML Special Characters

The characters &, “ and ‘ need to be encoded in XML before being sent through.

The characters < and > cannot be used inside nodes.

5. Document Revision History

Date	Version	Description	Author
01/06/2018	1.0.0	Created	Pateriki Te Pou
27/06/2018	1.1.0	Revised	Pateriki Te Pou
04/12/2018	1.2.0	Amended <ul style="list-style-type: none">- Line Repetition to 1..60- Shipment Sample file to make it a multi-line Shipment- Shipment Sample to adjust Hire Quantity counts Added <ul style="list-style-type: none">- GPSLocation group	Pateriki Te Pou
01/04/2019	1.2.1	Amended: <ul style="list-style-type: none">- Update Sample XML for Sender	Pateriki Te Pou
05/04/2019	1.2.2	Amended <ul style="list-style-type: none">- Spec has been amended to be an Inbound Only document	Pateriki Te Pou
26/06/2019	1.3.0	Amended <ul style="list-style-type: none">- Pickup\Delivery mandatory fields- Document Name	Pateriki Te Pou
30/07/2020	1.4.0	Amended <ul style="list-style-type: none">- Added Item Group- Added Residential tag	Pateriki Te Pou