



Royal Mail Confidential Information

Royal Mail Network Access

External Web Services

Version: 6.8

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If you require any further assistance or have questions regarding the content of any part of this document, in the first instance all enquiries should be made through the above person.

1.2 Change Control

Any changes to this document will be controlled and distributed by the document owner above.

Issue	Author	Date	History
V0.1	Mark Arnold (Mosaic)	17/10/2011	Initial Document release
V0.2	Onyemaechi Ezugwu	18/10/2011	Initial review of draft content
V0.3	Onyemaechi Ezugwu	21/10/2011	Update of the Dataflow map
V1.0	Onyemaechi Ezugwu	21/10/2011	Document publication
V1.1	Mark Arnold (Mosaic)	23/10/2011	Inclusion of Extended Vehicle web service methods
V1.2	Onyemaechi Ezugwu	26/10/2011	Review/update of content
V1.3	Onyemaechi Ezugwu	27/10/2011	Review/update of content
V1.4	Onyemaechi Ezugwu	28/10/2011	Update of TOC and to WSDL Production and UAT table
V1.5	Onyemaechi Ezugwu	07/12/2011	Move of the Vehicle Manifest introduction section. Update of the available get docketstatus codes. Alignment of the data element table to reflect the hierarchical format of the vehicle upload wsdl. Update to the Production URLs.
V1.6	Onyemaechi Ezugwu	09/12/2011	Clarification on lookup values available to use against data elements, error table update and general format
V2.0	Onyemaechi Ezugwu	09/12/2011	Document publication

V2.1	Mark Arnold	05/01/2012	Updated section 5.12 Production and UAT WSDL URLs to point to http://www.royalmail.dockethubtest.com/WebServices/import/ This is done to support existing Mixed Weight Web Services which use the same method names.
V2.1	Mark Arnold	14/01/2012	Added two new error codes:- 307B998 307B999
V3.0	Onyemaechi Ezugwu	28/02/2012	Document Publication
V3.1	Onyemaechi Ezugwu	27/03/2012	Update to the weight band profile settings
V3.2	Mark Arnold	10/09/2012	Added three new error codes:- HD2003, HD2004, HD2005 Updated TC1002 Message spelling mistake from "lenght" to "length"
V3.3	Mark Arnold	10/09/2012	Added three new error codes:- TC1009, PC1008, PC1009
V3.4	Mark Arnold	28/09/2012	Added Drawbar Trailer Vehicle Type reference "DC" to section 5.8.3: Tertiary Container Type Codes
V3.5	Mark Arnold	18/02/2013	Added three new error codes:- 307B907, 307B908, 307B909 Updated section 5.4.6 Import Docket/Append Docket Examples
V3.6	Chaz Parvez	20/02/2013	Corrected formatting error in both XML docs in section 5.6 "Error Messages Example Response"
V3.7	Chaz Parvez	06/06/2013	Base lined: Amended version
V3.8	Chaz Parvez	20/06/2013	Added two new optional EIB elements to support EIB searching of manifests in DocketHub. EIBSupplyChainID EIBManifestID

V3.9	Marc stevens	22/01/2014	Updated where appropriate the reference to the configuration change to the number of weight bands from 3 to 2 to align with the contractual change that took place 29 th July 13
V3.10	Onyemaechi Ezugwu	10/04/2014	Correction to the example reference weights to the average weight band in Docket Notes point 9. Additional Docket Notes point 10 to align with comments around handling of National Bespoke Parcel Postings.
V4.0	Marc Stevens	09/12/2014	Updated to Remove E*Pro references
V4.1	Marc Stevens	14/01/2015	Removed E*Pro reference in Docket Status WS description
V4.2	Marc Stevens	02/03/2015	Updated to include Regional Price. Updated URLs to use HTTPS Replaced dockethub10.co.uk with royalmail.dockethub.com Replaced www.royalmail.dockethubtest.com with with royalmail.dockethubtest.com
V4.2	Onyemaechi Ezugwu	07/04/2015	Formal authorisation
V5.0	Marc Stevens	08/04/2015	Document publication
V5.1	Marc Stevens	16/04/2015	Updated URLs to use /import/ instead of /manifest/
V5.2	Andrea Cooke	09/12/2015	Updated definition for non-mixed weight and mixed weight containers in Section 5.4 Dockets points 6 to 9 including format dependent weight Bands table.
V5.2	Andrea Cooke	09/12/2015	Updated definition for non-mixed weight and mixed weight containers in Section 5.5.2 Dockets points 6 to 9 including format dependent weight Bands table.
V6.0	Richard Parker	15/12/2016	Updated to include Forecasting Web Service Methods
V6.1	Michael Vaughan	26/01/2017	Updated WSDL to allow multiple forecasting dates in web service request.
V6.2	Michael Vaughan	03/02/2017	Added extra error codes 402A011- 402A020
V6.3	Michael Vaughan	08/02/2017	Added Mailing Reference and made CustomerField1 – 4, EIBSupplyChainID And EIBManifestID optional.
V6.4	Michael Vaughan	08/03/2017	Added extra note 5 to Forecasting Notes. Added error messages 402A021 - 402A024 to forecasting update and append methods. Updated example xml SOAP requests to show 2 forecast dates.

V6.5	Michael Vaughan	26/01/2018	Updated section 5.5.2 with the addition of point 12, relating to all National contracts.
V6.6	Michael Vaughan	16/03/2018	Updated section 5.4 with the addition of notes on National Bespoke Parcel Postings, Regional Postings and Zonal Profiles.
V6.7	Michael Vaughan	13/04/2018	Updated section 5.4 and 5.5.2 with a section on mixed weight catalogue letters
V6.8	Michael Vaughan	08/03/2019	Updated Legacy 12 character container id mixed weight restriction. The length is restricted to 12 characters if the service type is Mixed Weight otherwise 14 characters are allowed.

1.3 Terms & Abbreviations

Term/ Abbreviation	Description
DocketHUB	A Third Party System currently used by Royal Mail Network Access
SOAP	Simple Object Access Protocol
WSDL	Web Service Definition Language
SSL	Secure Sockets Layer
HTTPS	Hypertext Transfer Protocol Secure

2 Purpose

This document is part of a suite of documents designed to provide Royal Mail Network Access Customers and posters with guidelines and detailed specifications for use with the Web Service interfaces for any Network Access Service.

3 Scope

The web service interfaces included in the document are:

- Docket Manifest
 - Insert
 - Append
 - Delete
 - Create
 - Exceptions
- Vehicle Manifest
 - Insert
 - Confirmation
 - Delete Vehicle By Mail Centre and Slot
 - Delete Vehicle Import By TransactionID

4 Introduction to External Web Services

The External Web Services enable Customers to utilise the current published Royal Mail Web Service interface standards.

5 External Web Service Interfaces

5.1 Security

Secure Web Service Access and Data Transmission

The Customer system will be required to submit known login security data each time mailing information is exported to the web service. A unique login (user identifier (UserID) / password and access code) will be provided to each Customer requiring access to the new External web services.

UserID and Password Validations:

The UserID and Password will follow current Royal Mail Group criteria. UserIDs will be no less than 8 characters in length and alpha numeric / special characters will be allowed.

Password Expiry:

Users will not be able to change the External web service passwords as doing so could affect the transfer of data out of core hours support. If a Customer requires a change to a password they must contact support@dockethub.com with a formal request.

5.2 Initial Docket Flow

5.3 Docket Flow Description

1. Carriers system uploads manifest data via published web service interfaces into DocketHUB. The first response from DocketHUB will include a transaction ID which is used to append subsequent batches of manifest data. Any errors will be returned in the response from DocketHUB.
2. Once all manifest data is successfully transferred to DocketHUB the carriers system calls the confirm web service interface with the transaction ID. This creates a “Z” docket number that is returned to the client.
3. Exceptions are uploaded by the carrier via published web service interfaces into DocketHUB.

5.4 Docket Notes

1. Docket uploads follow the same restrictions as the current services as specified in the Royal Mail Condition 9 User guide.
2. The Docket upload format is an xml structure

3. The web services allows batches of up to 2,000 primary containers per transaction. (A primary container being a bag, tray, etc.)
4. Regardless of the size of the request, DocketHUB will provide details of the number of successfully uploaded primary containers or an error message for each primary container within a request should a container be rejected.
5. A non-mixed weight manifest defines one format-dependent weight band. The poster shall, when filling a non-mixed weight mail container, count the number of items and accumulate the total weight of these items. The poster will then create a manifest record for each mail container, this record will have an average item weight profile for the weight band in the container. A weight profile consists of three pieces of information: the zone id; the number of items in the weight band; the average item weight.
6. A mixed weight manifest defines a number of format-dependent weight bands. For each format-dependent weight band, the poster shall, when filling a mixed weight mail container, count the number of items and accumulate the total weight of these items. The poster will then create a manifest record for each mail container, this record will have a weight profile for each weight band for which items are present in the container. A weight profile consists of three pieces of information: the zone id; the number of items in the weight band; the average item weight.

Format	Number of operational weight bands	Operational weight band id	Operational weight band lower weight limit (grams)	Operational weight band upper weight limit (grams)
A3	1	1	1	750
Parcel (inc Bespoke Parcel)	2	1	1	1000
Parcel (inc Bespoke Parcel)	2	2	1001	2000
Large Letter (exc Catalog Large Letter)	3	1	1	100
Large Letter (exc Catalog Large Letter)	3	2	101	250
Large Letter (exc Catalog Large Letter)	3	3	251	750

Catalog Large Letter	3	1	1	100
Catalog Large Letter	3	2	101	250
Catalog Large Letter	3	3	251	750
Catalog Letter	2	1	1	100
Catalog Letter	2	2	101	150
Mixed container	4	1	1	100
Mixed container	4	2	101	250
Mixed container	4	3	251	750
Mixed container	4	4	1000	2000

- For National Bespoke Parcel Postings, a single primary container could contain mail for one average weight belonging to each applicable zone per weight band. National Bespoke Parcels uploads must use the National Product Code and provide a Zonal Profile.

A Zonal Profile is a statement of the number of items that are to be delivered to each Zone, eg 10 items to Zone A, 11 items to Zone B. More formally, a Zonal Profile is a set of one or more Zonal Specifications, where a Zonal Specification consists of a Zone identifier, an item count and an average item weight for each allowed weight band.

The aim of this extension project is to allow a Zonal Profile to be conveyed using existing interfaces.

- For Regional Postings, a single primary container could contain mail for one average weight belonging to each applicable zone per weight band. Regional uploads must use the National Product Code and provide a Zonal Profile.
- National contracts must use the National Product Code and if the account is configured for Zonal Profiles must provide a Zonal Profile as part of the Line Listing Manifest.

A Zonal Profile is a statement of the number of items that are to be delivered to each Zone, eg 10 items to Zone A, 11 items to Zone B. More

formally, a Zonal Profile is a set of one or more Zonal Specifications, where a Zonal Specification consists of a Zone identifier, an item count and an average item weight for each allowed weight band.

The aim of this extension project is to allow a Zonal Profile to be conveyed using existing interfaces.

10. If a customer wishes to use Mixed Weight Catalogue Letters products they should request that their account is enabled for mixed weight uploads at least 1 working day before mailing. Any mixed weight containers must have the <MixedWeight> element set to "Y" in the Detail section

5.4.1 Import Docket/Append Docket Methods

```
DT_RESPONSE = MI_OS_IMPORT(DT_REQUEST)
DT_RESPONSE = MI_OS_APPEND(DT_REQUEST)
```

5.4.2 Import Docket/Append Docket WSDL

The SOAP Address Location in the WSDLs is specified as the production URL. You may have to change this to the corresponding section defining the UAT URLs.



mi_os_Import.wsdl mi_os_append.wsdl

5.4.3 Import Docket/Append Docket Request Data Elements

Mandatory = Must always be present otherwise Docket will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Header

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
UserID	Alpha Num 30	M	The user identification used for authentication by the web service.
Password	Alpha Num 30	M	The user name used for authentication by the web service.
Carrier	Num 5	M	Identifies the user access code for authentication.
Poster	Alpha Num 9	M	Identifies the account that will be invoiced for the mail.
PostingDate	Date 8	M	Date the mail was posted. (DDMMYYYY)
OrderNumber	Alpha Num 9	O	Customer reference data.
IntermediaryAccount	Alpha Num 10	I	Reserved for future use.
TransactionID	Char 32	M	(On append only), the transaction identifier returned by posting the initial container upload.

Detail

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
BagID	Alpha Num 14	M	Upto 14 characters.
SSC	Num 5	M	Identifies the destination of the container.
ProductCode	Char 3	M	The three character product code that will be billed against.
Mech	Char 1	M	Y = Machinable N = Not Machinable O = OCR B = CBC
Format	Char 1	I	Reserved for future use.
DiscountSurcharge	Char 1	I	Reserved for future use.
MixedWeight	Char 1	M	If 'Y' then identifies the bag has Mixed Weight items. See Note on Mixed Weight postings
ZoneCode	Char 3	M	For national, value will be "NAT". For zonal, values will be "ZOA", "ZOB", "ZOC", "ZOD", or "ZOZ".
ItemWeight	Int 4	M	Average Item weight. (Up to 4 separate entries per zone per container, one for each weight band. Ensuring same average weight across each zone per weight band)
NumberItems	Int 4	M	The number of items as part of the container. (Up to 4 separate entries per zone per container, one for each weight band).
ItemID	Char 13	I	Reserved for future use.
OriginatingCustomerID	Alpha Num 15	O	Customer reference data (e.g. originating Customer identifier/Unique Customer ID (UCID))
CustomerField1	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField2	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField3	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField4	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
MailingRef	Alpha Num 32	O	Mailing Reference
EIBSupplyChainID	Int 7	O	The EIB Supply Chain Identifier
EIBManifestID	Int 10	O	The EIB Manifest Identifier (Range 1 to 2000000000)

Trailer

Field	Field Length	Description
Record Count	Int 4	The number of detail lines in the request.

5.4.4 Import Docket/Append Docket Response Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Header

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
UserID	Alpha Num 30	M	The user identification used for authentication by the web service.
Password	Alpha Num 30	M	The user name used for authentication by the web service.
Carrier	Num 5	M	Identifies the user access code for authentication.
Poster	Alpha Num 9	M	Identifies the account that will be invoiced for the mail.
PostingDate	Date 8	M	Date The Mail was posted. (DDMMYYYY)
OrderNumber	Alpha Num 9	O	Customer reference data
IntermediaryAccount	Alpha Num 10	I	Reserved for future use.
TransactionID	Char 32	M	The transaction identifier returned by posting the initial container upload.
MessageID	Alpha Num 10	M	The message identifier.
MessageType	Alpha 1	M	The error type. Can be 'E'rror or 'S'uccess.
MessageText	Alpha Num 100	M	The message text identifier

Detail

Field	Field Length	Mandatory (M)/ Optional(O)/ Ignored (I)	Description
BagID	Alpha Num 14	M	Upto 14 characters.
SSC	Num 5	M	Identifies the destination of the container.
ProductCode	Char 3	M	The three character product code that will be billed against.
Mech	Char 1	M	Y = Machinable N = Not Machinable O = OCR B = CBC
Format	Char 1	I	Reserved for future use.
DiscountSurcharge	Char 1	I	Reserved for future use.
MixedWeight	Char 1	M	If 'Y' then Identifies the bag has Mixed Weight items. See Note on Mixed Weight Postings
ZoneCode	Char 3	M	For national, value will be "NAT". For zonal, values will be "ZOA", "ZOB", "ZOC", "ZOD", or "ZOZ".
ItemWeight	Int 4	M	Average Item weight. (Up to 4 separate entries per zone per container, one for each weight band, Ensuring same average weight across each zone per weight band)
NumberItems	Int 4	M	The number of items as part of the container. (Up to 4 separate entries per zone per container, one for each weight band).
ItemID	Char 13	I	Reserved for future use
OriginatingCustomerID	Alpha Num 15	O	Customer reference data (e.g. originating Customer identifier/Unique Customer ID (UCID))
CustomerField1	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField2	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField3	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField4	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
MailingRef	Alpha Num 32	O	Mailing Reference
EIBSupplyChainID	Int 7	O	The EIB Supply Chain Identifier
EIBManifestID	Int 10	O	The EIB Manifest Identifier (Range 1 to 2000000000)
MessageID	Alpha	M	The message identifier.

Field	Field Length	Mandatory (M)/ Optional(O)/ Ignored (I)	Description
	Num 10		
MessageType	Alpha 1	M	The error type. Can be 'E'rror or 'S'uccess.
MessageText	Alpha Num 100	M	The message text.

5.4.5 Import Docket/Append Docket XML Structures



Import_Example.xml



Append_Example.xml

5.4.6 Import Docket/Append Docket Examples

Attached are ten xml examples for docket upload:-



append_USPA_national_nonmixed_weight_example.xml



append_zonal_nonmixed_weight_example.xml



append_zonal_mixed_weight_example.xml



append_national_nonmixed_weight_example.xml



append_national_mixed_weight_example.xml



import_USPA_national_nonmixed_weight_example.xml



import_zonal_nonmixed_weight_example.xml



import_zonal_mixed_weight_example.xml

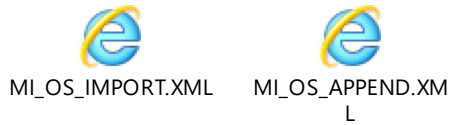


import_national_nonmixed_weight_example.xml

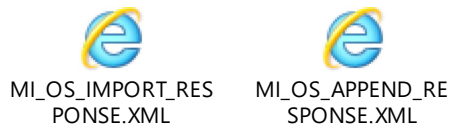


import_national_mixed_weight_example.xml

5.4.7 Import Docket/Append Docket Examples SOAP Request



5.4.8 Import Docket/Append Docket Examples SOAP Response



5.4.9 Import Docket/Append Docket Manual File Loading

In the event that your system encounters an error transferring the SOAP request via the External Web Service, the following backup actions should be followed:-

1. Save an exact copy of the SOAP request that has failed.
2. Send the data file to support@dockethub.com
3. Dockethub support will contact you once the data has been imported or respond with the reason the request failed.

Note on Delete Docket

If a carrier uploads information incorrectly, and they realise the mistake before calling the “MI_OS_CREATE” Web Service, they can call the “MI_OS_DELETE” web service method and this will remove all the data for a given transaction ID.

5.4.10 Delete Docket Method

`DT_DELETE_RES = MI_OS_DELETE(DT_DELETE_REQ)`

5.4.11 Delete Docket WSDL



MI_OS_DELETE.WSD
L

5.4.12 Delete Docket Request Data Elements

Note there is no Header element in the MI_OS_DELETE web service. This is by design based on original configuration of WSDL from previous project.

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Detail

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
UserID	Alpha Num 30	M	The user identification used for authentication by the web service.
Password	Alpha Num 30	M	The user name used for authentication by the web service.
Carrier	Num 4	M	Identifies the user access code for authentication.
TransactionID	Char 32	M	(On append only), the transaction identifier returned by posting the initial container upload.

5.4.13 Delete Docket Response Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the **DocketHUB** system and will not be validated.

Detail

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
Carrier	Num 4	M	Identifies the user access code for authentication.
TransactionID	Char 32	M	The transaction identifier returned by posting the initial container upload.
MessageID	Alpha Num 10	M	The message identifier.
MessageType	Alpha 1	M	The error type. Can be 'E'rror or 'S'uccess.
MessageText	Alpha Num 100	M	The message text.

5.4.14 Delete Docket XML Structure



Delete_Example.xml

5.4.15 Delete Docket Example



mixed_weights_delete_example.xml

5.4.16 Delete Docket Example SOAP Request



MI_OS_DELETE_REQUEST.xml

5.4.17 Delete Docket Example SOAP Response



MI_OS_DELETE_RESPONSE.xml

5.4.18 Delete Docket Manual File Loading

In the event that your system encounters an error transferring the SOAP request via the External Web Service, the following backup actions should be followed:-

1. Save an exact copy of the SOAP request that has failed.
2. Send the data file to support@dockethub.com
3. Dockethub support will contact you once the data has been imported or respond with the reason the request failed.

5.4.19 Create Docket Method

DT_CREATE_RES = MI_OS_CREATE(DT_CREATE_REQ)

5.4.20 Create Docket WSDL



MI_OS_CREATE.wsdl

5.4.21 Create Docket Request Data Elements

Note there is no Header element in the MI_OS_DELETE web service. This is by design based on original configuration of WSDL from previous project.

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Detail

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
UserID	Alpha Num 30	M	The user identification used for authentication by the web service.
Password	Alpha Num 30	M	The user name used for authentication by the web service.
Carrier	Num 5	M	Identifies the user access code for authentication.
Poster	Alpha Num 9	M	Identifies the account that will be invoiced for the mail.
PostingDate	Date 8	M	Date The Mail was posted – DDMMYYYY
TransactionID	Char 32	M	The transaction identifier returned by posting the initial container upload.

5.4.22 Create Docket Response Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the **DocketHUB** system and will not be validated.

Detail

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
Carrier	Num 5	M	Identifies the user access code for authentication.
Poster	Alpha Num 9	M	Identifies the account that will be invoiced for the mail.
PostingDate	Date 8	M	Date The Mail was posted. (DDMMYYYY)
TransactionID	Char 32	M	(On append only), the transaction identifier returned by posting the initial container upload.
SalesOrder	Alpha Num 9	M	The uniquely generated Docket Number number.

5.4.23 Create Docket XML Structure



5.4.24 Create Docket Example



5.4.25 Create Docket Example SOAP Request



5.4.26 Create Docket Example SOAP Response



5.4.27 Create Docket Manual File Loading

In the event that your system encounters an error transferring the SOAP request via the External Web Service, the following backup actions should be followed:-

1. Save an exact copy of the SOAP request that has failed.
2. Send the data file to support@dockethub.com
3. Dockethub support will contact you once the data has been imported or respond with the reason the request failed.

5.4.28 Get Docket Status Method

DT_DOCKET_STATUS_RES = MI_OS_DOCKET_STATUS(DT_DOCKET_STATUS_REQ)

5.4.29 Get Docket Status WSDL



MI_OS_DOCKET_ST
ATUS.WSDL

5.4.30 Get Docket Status Request Data Elements

Note there is no Header element in the MI_OS_DOCKET_STATUS web service.

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Detail

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
UserID	Alpha Num 30	M	The user identification used for authentication by the web service.
Password	Alpha Num 30	M	The user name used for authentication by the web service.
Carrier	Num 5	M	Identifies the user access code for authentication.
Poster	Alpha Num 9	M	Identifies the account that will be invoiced for the mail.
PostingDate	Date 8	M	Date The Mail was posted – DDMMYYYY
TransactionID	Char 32	M	The transaction identifier returned by posting the initial container upload.

5.4.31 Get Docket Status Response Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the **DocketHUB** system and will not be validated.

Detail

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
Carrier	Num 45	M	Identifies the user access code for authentication.
Poster	Alpha Num 9	M	Identifies the account that will be invoiced for the mail.
PostingDate	Date 8	M	Date The Mail was posted. (DDMMYYYY)
TransactionID	Char 32	M	(On append only), the transaction identifier returned by posting the initial container upload.
SalesOrder	Alpha Num 9	M	The uniquely generated DocketHub Sales Order / Docket Number
Docket Number	Alpha Num 9	M	The uniquely generated Docket Number that will appear on your invoice
Status Code	Num 1	M	<i>See below</i>
Status Description	Alpha 30	M	Status of the docket.
MessageID	Alpha Num 10	M	The message identifier.
MessageType	Alpha 1	M	The error type. Can be 'E'rror or 'S'uccess.
MessageText	Alpha Num 100	M	The message text.

Status Code Definitions

Status Code	Status Description	Detail
1	Unconfirmed	Data uploaded but no Sales Order (DocketHUB Docket number) created yet. i.e. the MI_OS_CREATE method hasn't been called.
2	Transferring	N/A
3	Complete	Data has been accepted and Docket Number has been created.
4	Deleted	Transaction Deleted
-1	Unknown Transaction ID	An invalid TransactionID has been provided

5.4.32 Get Docket Status XML Structure



docketstatus.XML

5.4.33 Get Docket Status Example



docketstatus_exam
ple.XML

5.4.34 Get Docket Status Example SOAP Request



MI_OS_DOCKET_ST
ATUS.XML

5.4.35 Get Docket Status Example SOAP Response



MI_OS_DOCKET_ST
ATUS_RES.xml

Note on Exception Submission

To create a shortage exception the bag identifier must exist on the manifest and all item counts must be set to zero.

5.4.36 Exception Docket Method

`DT_RESPONSE = MI_OS_EXCEPTIONS(DT_REQUEST)`

5.4.37 Exception Docket WSDL



mi_os_exceptions.w
sdl

5.4.38 Exception Docket Request Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Header

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
UserID	Alpha Num 30	M	The user identification used for authentication by the web service.
Password	Alpha Num 30	M	The user name used for authentication by the web service.
Carrier	Num 5	M	This field Identifies the user access code for authentication.
Poster	Alpha Num 9	M	Identifies the account that will be invoiced for the mail.
PostingDate	Date 8	M	Date the mail was posted – DDMMYYYY
OrderNumber	Alpha Num 9	O	Optional - Customer reference data
IntermediaryAccount	Alpha Num 10	I	Reserved for future use.
TransactionID	Char 32	M	The transaction identifier returned by posting the initial container upload.
SalesOrder	Alpha Num 9	M	The uniquely generated docket number.

Detail

Field	Field Length	Mandatory (M)/ Optional(O) /Ignored (I)	Description
BagID	Alpha Num 14	M	Upto 14 characters.
SSC	Num 5	M	Identifies the destination of the container.
ProductCode	Char 3	M	The three character product code that will be billed against.
Mech	Char 1	M	Y = Machinable N = Not Machinable O = OCR B = CBC
Format	Char 1	I	Reserved for future use.
DiscountSurcharge	Char 1	I	Reserved for future use.
MixedWeight	Char 1	M	If 'Y' then identifies the bag has Mixed Weight items. See Note on Mixed Weight postings
ZoneCode	Char 3	M	For national value will be "NAT". For zonal, values will be "ZOA", "ZOB", "ZOC", "ZOD", or "ZOZ".
ItemWeight	Int 4	M	Average Item weight. (Up to 4 separate entries per zone per container, one for each weight band, Ensuring same average weight across each zone per weight band)
NumberItems	Int 4	M	The number of items as part of the container. (Up to 4 separate entries per zone per container, one for each weight band).
ItemID	Char 13	I	Reserved for future use
OriginatingCustomerID	Alpha Num 15	O	Customer reference data (e.g. originating Customer identifier/Unique Customer ID (UCID))
CustomerField1	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField2	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField3	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField4	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
MailingRef	Alpha Num 32	O	Mailing Reference
EIBSupplyChainID	Int 7	O	The EIB Supply Chain Identifier
EIBManifestID	Int 10	O	The EIB Manifest Identifier (Range 1 to 2000000000)

Trailer

Field	Field Length	Description
Record Count	Int 4	The number of detail lines in the request.

5.4.39 Exception Docket Response Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Header

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
Carrier	Num 5	M	This field Identifies the user access code for authentication.
Poster	Alpha Num 9	M	Identifies the account that will be invoiced for the mail.
PostingDate	Date 8	M	Date The Mail was posted. (DDMMYYYY)
OrderNumber	Alpha Num 9	O	Customer reference data
IntermediaryAccount	Alpha Num 10	I	Reserved for future use.
TransactionID	Char 32	M	The transaction ID returned by posting the initial container upload.
SalesOrder	Alpha Num 9	M	The uniquely generated docket number.
MessageID	Alpha Num 10	M	The message identifier.
MessageType	Alpha 1	M	The error type. Can be 'E'rror or 'S'uccess.
MessageText	Alpha Num 100	M	The message text identifier

Detail

Field	Field Length	Mandatory (M)/ Optional(O)/ Ignored (I)	Description
BagID	Alpha Num 14	M	Upto 14 characters.
SSC	Num 5	M	Identifies the destination of the container.
ProductCode	Char 3	M	The three character product code that will be

Field	Field Length	Mandatory (M)/ Optional(O)/ Ignored (I)	Description
			billed against.
Mech	Char 1	M	Y = Machinable N = Not Machinable O = OCR B = CBC
Format	Char 1	I	Reserved for future use.
DiscountSurcharge	Char 1	I	Reserved for future use.
MixedWeight	Char 1	M	If 'Y' then Identifies the bag has Mixed Weight items. See Note on Mixed Weight Postings
ZoneCode	Char 3	M	For national value will be "NAT". For zonal, values will be "ZOA", "ZOB", "ZOC", "ZOD", or "ZOZ".
ItemWeight	Int 4	M	Average Item weight. (Up to 4 separate entries per zone per container, one for each weight band, Ensuring same average weight across each zone per weight band)
NumberItems	Int 4	M	The number of items as part of the container. (Up to 4 separate entries per zone per container, one for each weight band).
ItemID	Char 13	I	Reserved for future use.
OriginatingCustomerID	Alpha Num 15	O	Customer reference data (e.g. originating Customer identifier/Unique Customer ID (UCID))
CustomerField1	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField2	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField3	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
CustomerField4	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
MailingRef	Alpha Num 32	O	Mailing Reference
EIBSupplyChainID	Int 7	O	The EIB Supply Chain Identifier
EIBManifestID	Int 10	O	The EIB Manifest Identifier (Range 1 to 2000000000)
MessageID	Alpha Num 10	M	The message identifier.
MessageType	Alpha 1	M	The error type. Can be 'E'rror or 'S'uccess.

Field	Field Length	Mandatory (M)/ Optional(O)/ Ignored (I)	Description
MessageText	Alpha Num 100	M	The message text.

5.4.40 Exception Docket XML Structures



Exception_Example.xml

5.4.41 Exception Docket Example



exceptions_mixed_weights_example.xr



exceptions_non-mixed_weights_example

5.4.42 Exception Docket Example SOAP Request



MI_OS_EXCEPTIONS_REQ.XML

5.4.43 Exception Docket Example SOAP Response



MI_OS_EXCEPTIONS_RESPONSE.XML

5.4.44 Exception Docket/Manual File Loading

In the event that your system encounters an error transferring the SOAP request via the External Web Service, the following backup actions should be followed:-

1. Save an exact copy of the SOAP request that has failed.
2. Send the data file to support@dockethub.com
3. Dockethub support will contact you once the data has been imported or respond with the reason the request failed.

5.5 Vehicle Manifest Flow

5.5.1 Vehicle Manifest Flow Description

1. Carriers system uploads vehicle manifest data via published web service interfaces into DocketHUB. Any errors will be returned in the response from DocketHUB.
2. Once the contents of a vehicle have been uploaded the carrier calls the vehicle confirmation web service.

5.5.2 Vehicle Manifest Notes

1. The Vehicle manifest uploads presents its datasets within the WSDL structure as multi levels of nested information to reflect the business presentation of data by primary containers, within secondary containers within tertiary containers. (E.g Bags within a York, and Yorks within a Vehicle). This multi-level structure of information is referred to as a “*hierarchical file format*”.
2. Vehicle manifest uploads will be accepted by RM’s production system only once the appropriate agreement has been reached with all business prerequisites met and that the appropriate customer testing performed and signed off by Royal mail systems as complete and successful.
3. Vehicle manifest uploads will be allowed up to a pre-determined time by Royal Mail. After that time vehicle manifests will be rejected. In this instance DSACC must be contacted by the carrier and if allowed will send the vehicle manifest file to DSACC for upload into Dockethub.
4. The web services will allow batches of up to 2,000 primary containers per transaction. (A primary container being a bag, tray, etc.). The system will let you continue to upload the final secondary container and primary containers if the limit has not yet been reached. For example if the carrier has uploaded 1990 primary containers and starts to upload a new secondary container this will be allowed.
5. Regardless of the size of the request, DocketHUB will provide an error message for each primary container within a request should a container be rejected.
6. A non-mixed weight manifest defines one format-dependent weight band. The poster shall, when filling a non-mixed weight mail container, count the number of items and accumulate the total weight of these items. The poster will then create a manifest record for each mail container, this record will have an average item weight profile for the weight band in the container. A weight profile consists of three pieces of information: the zone id; the number of items in the weight band; the average item weight.
7. A mixed weight manifest defines a number of format-dependent weight bands. For each format-dependent weight band, the poster shall, when filling a mixed weight mail container, count the number of items and accumulate the total weight of these items. The poster will then create a manifest record for each mail container, this record will have a weight profile for each weight band for which items are present in the container. A

weight profile consists of three pieces of information: the zone id; the number of items in the weight band; the average item weight.

Format	Number of operational weight bands	Operational weight band id	Operational weight band lower weight limit (grams)	Operational weight band upper weight limit (grams)
A3	1	1	1	750
Parcel (inc Bespoke Parcel)	2	1	1	1000
Parcel (inc Bespoke Parcel)	2	2	1001	2000
Large Letter (exc Catalog Large Letter)	3	1	1	100
Large Letter (exc Catalog Large Letter)	3	2	101	250
Large Letter (exc Catalog Large Letter)	3	3	251	750
Catalog Large Letter	3	1	1	100
Catalog Large Letter	3	2	101	250
Catalog Large Letter	3	3	251	750
Catalog Letter	2	1	1	100
Catalog Letter	2	2	101	150
Mixed container	4	1	1	100
Mixed container	4	2	101	250
Mixed container	4	3	251	750
Mixed container	4	4	1000	2000

8. For National Bespoke Parcel Postings, a single primary container could contain mail for one average weight belonging to each applicable zone per weight band. National Bespoke Parcels uploads must use the National Product Code and provide a Zonal Profile.

A Zonal Profile is a statement of the number of items that are to be delivered to each Zone, eg 10 items to Zone A, 11 items to Zone B. More formally, a Zonal Profile is a set of one or more Zonal Specifications, where a Zonal Specification consists of a Zone identifier, an item count and an average item weight for each allowed weight band.

The aim of this extension project is to allow a Zonal Profile to be conveyed using existing interfaces.

9. For Regional Postings, a single primary container could contain mail for one average weight belonging to each applicable zone per weight band. Regional uploads must use the National Product Code and provide a Zonal Profile.

10. National contracts must use the National Product Code and if the account is configured for Zonal Profiles must provide a Zonal Profile as part of the Line Listing Manifest.

A Zonal Profile is a statement of the number of items that are to be delivered to each Zone, eg 10 items to Zone A, 11 items to Zone B. More formally, a Zonal Profile is a set of one or more Zonal Specifications, where a Zonal Specification consists of a Zone identifier, an item count and an average item weight for each allowed weight band.

The aim of this extension project is to allow a Zonal Profile to be conveyed using existing interfaces.

11. If a customer wishes to use Mixed Weight Catalogue Letters products they should request that their account is enabled for mixed weight uploads at least 1 working day before mailing. Any mixed weight containers must have the <MixedWeight> element set to “Y” in the PrimaryContainer section.

Extended Vehicle Import

```
VEH_IMPORT_EXTENDED_RESPONSE = MI_OS_VEH_IMPORT_EXTENDED  
(VEH_IMPORT_EXTENDED_REQUEST)
```

5.5.3 Extended Vehicle Import WSDL

The SOAP Address Location in the WSDLs is specified as the UAT URL. You may have to change this to the corresponding section defining the Production URLs.

The following operations are supported in the WSDL.

- a) VEH_IMPORT_EXTENDED
- b) VEH_CONFIRM_VEHICLE
- c) VEH_DELETE_VEHICLEBYSLOT
- d) VEH_DELETE_VEHICLEIMPORT



MI_OS_VEH_IMPORT
_EXTENDED.wsdI

5.5.4 Extended Vehicle Import Request Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Header

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
UserID	Alpha Num 30	M	The user identification used for authentication by the web service.
Password	Alpha Num 30	M	The user name used for authentication by the web service.
Carrier	Num 5	M	Identifies the user access code for authentication.
PostingDate	Date 8	M	Date the mail was posted. (DDMMYYYY)

Tertiary Container

Field	Field Length	Mandatory (M)/ Optional(O) /Ignored (I)	Description
AccessTime	Alpha 4	M	The regular slot start time for the Mail Centre being delivered to.
MailCentre	Alpha 30	M	Name of the Mail Centre being delivered to. (Note: The mail centre names are limited to the values provided within the DSADESTN file available from the CFL datafile available via the RM Wholesale website.)
Type	Char 2	M	Tertiary Container Type (See look up values 5.13.3 Tertiary Container Type codes)
ContainerID	Alpha	M	Tertiary container identifier.

Field	Field Length	Mandatory (M)/ Optional(O) /Ignored (I)	Description
	Num 10		
VehicleID	Alpha Num 10	O	Tertiary container vehicle identifier. This should be the vehicle registration

Secondary Container

Field	Field Length	Mandatory (M)/ Optional(O) /Ignored (I)	Description
Type	Char 1	M	Secondary Container Type (See look up values 5.13.2 Secondary Container Type codes)
ContainerID	Alpha Num 50	M	Secondary container identifier.
WeightKg	Num 5	M	The weight of the container in Kg
DeckID	Num 1	O	The deck number should be the following values: 1 = Deck level 1 2 = Deck level 2 <i>(Note: If this field is not populated it will default the deck level value to 1.)</i>

Primary Container

Field	Field Length	Mandatory (M)/ Optional(O) /Ignored (I)	Description
Poster	Alpha Num 9	M	Identifies the account that will be invoiced for the mail.
ContainerID	Alpha Num 14	M	Upto 14 characters.
Type	Char 1	M	Primary Container Type (See look up values 5.13.1 Primary Container Type codes and Weight Limits)
SSC	Num 5	M	Identifies the destination of the container.
Product	Char 3	M	The three character product code that will be billed against.
Mech	Char 1	M	Y = Machinable N = Not Machinable O = OCR B = CBC
MixedWeight	Char 1	M	If 'Y' then identifies the bag has Mixed Weight items.
WeightKg	Num 5	M	Weight of Container in Kg
UCID	Alpha Num 15	O	Customer reference data (e.g. Unique Customer Identifier)
OrderNumber	Alpha Num 9	O	Customer reference data.

Customer Container

MailRef	Alpha Num 32	O	Mailing Reference
Ref1	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
Ref2	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect..
Ref3	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect..
Ref4	Alpha Num 30	O	Cost Code field that can be used in invoice reconciliation for applying custom campaigns ect.
EIBSupplyChainID	Int 7	O	The EIB Supply Chain Identifier
EIBManifestID	Int 10	O	The EIB Manifest Identifier (Range 1 to 2000000000)

Weight Container

Items	Num 4	M	The number of items as part of the container. (Up to 4 separate entries per zone per container, one for each weight band).
AvgWeightGm	Num 4	M	Average Item weight. (Up to 4 separate entries per zone per container, one for each weight band. Ensuring same average weight across each zone per weight band)
Zone	Char 3	M	For national, value will be "NAT". For zonal, values will be "ZOA", "ZOB", "ZOC", "ZOD", or "ZOZ".
Items	Num 8	I	Reserved for future use.
ItemWeightGm	Num 4	I	Reserved for future use.
ChargeTo	Alpha Num 9	I	Reserved for future use.

5.5.5 Extended Vehicle Import Response Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Detail

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
TransactionID	Alpha Num 30	M	The user identification used for authentication by the web service.
ErrorCount	Num 3	M	If there are any errors the value will be 1
MessageID	Alpha Num 6	M	Message identifier
MessageType	Alpha 1	M	Error = E Warning = W Success = S
MessageText	Alpha Num 100	M	Message associated with error.
ContainerLevel	Alpha Num 10	M	The level at which the warning/error occurred. Header. These are listed below:- <ul style="list-style-type: none"> • TertiaryContainer • SecondaryContainer • PrimaryContainer • CustomerData • Weights
ContainerID	Alpha Num 50	M	The identification of the container.
MessageCode	Alpha Num 6	M	Unique message code of the error.
Message	Alpha Num 100	M	Message associated with error.

5.5.6 Extended Vehicle Import XML Structures



VEH_IMPORT_EXTEN
DED.xml

5.5.7 Extended Vehicle Import Example SOAP Request



VEH_IMPORT_EXTEN
DED_REQ.xml

5.5.8 Extended Vehicle Import Example SOAP Response



VEH_IMPORT_EXTEN
DED_RES.xml

5.5.9 Extended Vehicle Import Manual File Loading

In the event that your system encounters an error transferring the SOAP request via the DocketHub External Web Service, the following backup actions should be followed:-

1. Save an exact copy of the SOAP request that has failed.
2. Send the data file to support@dockethub.com
3. Dockethub support will contact you once the data has been imported or respond with the reason the request failed.

5.5.10 Vehicle Confirm

VEH_CONFIRM_VEHICLE_RESPONSE = MI_OS_VEH_IMPORT_EXTENDED(VEH_CONFIRM_VEHICLE_REQUEST)

5.5.11 Vehicle Confirm Request Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Header

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
UserID	Alpha Num 30	M	The user identification used for authentication by the web service.
Password	Alpha Num 30	M	The user name used for authentication by the web service.
Carrier	Num 5	M	In the External solution this field Identifies the user access code for authentication.
PostingDate	Date 8	M	Date the mail was posted. (DDMMYYYY)

Detail

Field	Field Length	Mandatory (M)/ Optional(O) /Ignored (I)	Description
AccessTime	Alpha 4	M	The regular slot start time for the Mail Centre being delivered to.
MailCentre	Alpha 30	M	Name of the Mail Centre being delivered to. <i>(Note: The mail centre names are limited to the values provided within the DSADESTN file available from the CFL datafile available via the RM Wholesale website.)</i>
ContainerID	Alpha Num 10	M	Tertiary container identifier.
VehicleID	Alpha Num 10	O	Tertiary container vehicle identifier.

5.5.12 Vehicle Confirm Response Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Detail

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
ErrorCount	Num 3	M	If there are any errors the value will be 1
MessageID	Alpha Num 6	M	Message identifier
MessageType	Alpha 1	M	Error = E Warning = W Success = S
MessageText	Alpha Num 100	M	Message associated with error.

5.5.13 Vehicle Confirm XML Structures



VEH_CONFIRM_VEH
ICLE.xml

5.5.14 Vehicle Confirm Example SOAP Request



VEH_CONFIRM_VEH
ICLE_REQ.xml

5.5.15 Vehicle Confirm Example SOAP Response



VEH_CONFIRM_VEH
ICLE_RES.xml

5.5.16 Vehicle Confirm Manual File Loading

In the event that your system encounters an error transferring the SOAP request via the DocketHub External Web Service, the following backup actions should be followed:-

1. Save an exact copy of the SOAP request that has failed.
2. Send the data file to support@dockethub.com
3. Dockethub support will contact you once the data has been imported or respond with the reason the request failed.

5.5.17 Vehicle Delete

VEH_DELETE_VEHICLEIMPORT_RESPONSE = MI_OS_VEH_IMPORT_EXTENDED
(VEH_DELETE_VEHICLEIMPORT_REQUEST)

5.5.18 Vehicle Delete Request Data Elements

Mandatory = Must always be present otherwise container will be rejected.

Optional = Can be omitted.

Ignored = The data is not used by the DocketHUB system and will not be validated.

Header

Field	Field Length	Mandatory (M)/ Optional (O) /Ignored (I)	Description
UserID	Alpha Num 30	M	The user identification used for authentication by the web service.
Password	Alpha Num 30	M	The user name used for authentication by the web service.
Carrier	Num 5	M	In the External solution this field Identifies the user access code for authentication.
PostingDate	Date 8	M	Date the mail was posted. (DDMMYYYY)

Detail

Field	Field Length	Mandatory (M)/ Optional(O) /Ignored (I)	Description
TransactionID	Char 32	M	The transaction identifier returned by posting the initial container upload.