

Technical description

Matkahuolto's shipment document interface

CHANGE LOG

Version / date	Description of change
1.0 / 07.07.2009	- First version
1.1 / 27.07.2009	- Added info
1.2 / 13.08.2009	- puserId
1.3 / 23.05.2013	- Added SpecialHandling
2.0 / 21.02.2014	- Activation code, returns handling, other payer
2.1 / 09.04.2014	- Updated examples for version 2
2.2 / 29.12.2014	- Added version 2 addresses and countries
2.3 / 05.02.2015	- Added ShipmentRow examples
2.4 / 29.01.2019	- Added new error codes to reply message
2.5 / 20.03.2019	- Added service code 11 & cash payer validation
2.6 / 09.05.2019	- Added special handling code K06 (Delivery without signature)
2.7 / 29.01.2020	- Added service code 84 (XXS)
2.8 / 29.09.2020	- Fixed max number packages / shipment
2.9 / 1.10.2020	- Added new SpecialHandling code
2.10. / 23.10.2020	- Added new SpecialHandling code (JPL) and new fields for it
2.11. / 27.01.2021	- Added service code 97 (Export home delivery) - Removed unused service codes 40, 42, 43, 44
2.12. / 17.02.2021	- Added error codes 1020 and 1021
2.13 / 25.03.2021	- Added DocumentType 10X15
2.14 / 11.05.2021	- Added parcel measurements, service code 37 and fields for customs
2.15 / 18.06.2021	- Removed obsolete Special Handling code K03
2.16 / 01.07.2021	- Added PIN-code
2.17 / 20.05.2022	- Added Dangerous Goods information
2.18 / 15.06.2022	- Added service codes 81 and 91 (customer return domestic / abroad)
2.19 / 2.8.2022	- Added examples for product 91, new fields for dangerous goods
2.20 / 17.11.2022	- Small changes to dangerous goods
2.21 / 4.12.2023	- AdrVolume for dangerous goods
2.22 / 10.1.2024	- Product list updated correcting name for 95, 96 and 97. Obsolete products 10, 70 and 72 removed.
2.23 / 2.10.2024	- Added PackageType - Added special handling code SD (same day delivery)
2.24 / 11.2.2025	- Removed COD fields

	<ul style="list-style-type: none">- Removed ADR codes from shipment/root level- Removed special handover fields
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1 GENERAL

In this document is described Matkahuolto's shipment pdf interface. Interface can be used to request shipment documents and sending shipment data to Matkahuolto.

For version 2.0, it is possible to send multiple shipments in one request. In reply message there will be all the shipment documents in one pdf-file

This interface is based on XML-messages, that are transported between the customer and Matkahuolto. This interface does not use SOAP (Simple Object Access Protocol), it is based on simple XML-messages.

For live environment, the address for sending the XML-messages is:

<https://extservices.matkahuolto.fi/mpaketti/mhshipmentxml>

For testing, the address for sending XML-messages is:

<https://extservicetest.matkahuolto.fi/mpaketti/mhshipmentxml>

In HTTP-request, Content-Type -attribute must have value "text/xml". Otherwise server will reply with an error status.

Service is SSL secured, requests can only be made via https: -protocol.

2 MESSAGE DESCRIPTIONS

2.1 Request

XML-element	M	Description	Remarks	Version
MHShipmentRequest	X			
UserId	X	Account number in Matkahuolto	Matkahuolto gives this to the customer (account number)	

			without zeros in beginning)	
Password	X	Password for the account	Matkahuolto gives this to the customer	
Version	X	Version number		
Shipment	X	Begins new shipmentinfo		
ShipmentType	X	Shipment type	N=normal (default), A=activated shipment R=return	2.0
MessageType	X	Message type	N=New C=change D=delete	
ShipmentNumber		Shipment number	If empty, Matkahuolto will create shipment number	
ShipmentDate		Shipment date	DD.MM.YYYY	
Weight	X	Shipment weight (kg)	e.g. 1.23, use dot to separate	
Volume		Shipment volume (m ³)	e.g. 0.123, use dot to separate	
Packages	X	Packages in shipment	Integer	
PackageType		Package type of shipment	FIN = FIN-pallet EUR = EUR-pallet HP = Half pallet RC = Roller cage SP = Special pallet	2.23
SenderId	X	Account number in Matkahuolto	e.g 9430023	
SenderName1		Sender name 1		
SenderName2		Sender name 2		
SenderAddress		Sender address		
SenderAddress2		Sender address 2	Address line 2, floor, door number etc.	2.14
SenderPostal		Sender postal code		

SenderCity		Sender city		
SenderCountry		Sender country	Country code (FI = Finland)	2.0
SenderContactName		Contact person for sender		
SenderContactNumber		Contact number for sender		
SenderEmail		Email for sender		
SenderBusinessCode		Sender business code		2.14
SenderCustomsCode		Sender customs code		2.14
SenderReference		Sender reference		
DeparturePlaceCode				
DeparturePlaceName				
ReceiverId		Receivers account number	Account number in Matkahuolto	
ReceiverName1	X	Receiver name 1		
ReceiverName2		Receiver name 2		
ReceiverAddress		Receiver address		
ReceiverAddress2		Receiver address 2	Address line 2, floor, door number etc.	2.14
ReceiverPostal	X	Receiver postal		
ReceiverCity	X	Receiver city		
ReceiverCountry		Receiver country	Country code (FI = Finland)	2.0
ReceiverContactName		Contact person for receiver		
ReceiverContactNumber		Receiver phonenumber		
ReceiverEmail		Receiver email		
ReceiverBusinessCode		Receiver business code		2.14
ReceiverCustomsCode		Receiver customs code		2.14
ReceiverReference		Receiver reference		

ReceiverLanguage		Receiver language code	FI=Finnish, SV=Swedish, EN=English	2.3
DestinationPlaceCode		Comes from office selection-interface		
DestinationPlaceName		Comes from office selection-interface		
PayerCode		Payer for the shipment	S=sender R=receiver O=other (when "O", payers account code given in PayerId)	2.0
PayerId		Account code for payer	Mandatory when PayerCode "O"	2.0
PayerName1		Payer name		2.0
PayerName2		Payer name 2		2.0
PayerAddress		Payer address		2.0
PayerPostal		Payer postal code		2.0
PayerCity		Payer city		2.0
PayerCountry		Payer country	Country code (FI = Finland)	2.0
PayerContactName		Payer contact person		2.0
PayerContactNumber		Payer contact number		2.0
PayerEmail		Payer email		2.0
PayerReference		Payer reference		2.0
Remarks		Remarks		
ProductCode	X	Code for Matkahuoltos product	See list below	
ProductName		Name for Matkahuoltos product	See list below	
Pickup		Pickup	Y=yes, N=no, default="N"	

PickupPayer		Payer for the pickup	S=sender R=receiver default=S	
PickupRemarks		Remarks for pickup		
Delivery		Delivery	Y=yes, N=no, default=N	
DeliveryPayer		Payer for the delivery	S=sender R=receiver default=S	
DeliveryRemarks		Remarks for delivery		
Goods		Goods		
SpecialHandling		Special handling	Code for special handling, see list below. If several per shipment then values separated by comma.	
DocumentType		Document type	NO = no label is returned in response message 10X15 = returns 100x150mm label By default returns A5 label	
Terminal		Terminal code (post box delivery)		2.10
RouteNumber		Route number (post box delivery)		2.10
RouteName		Route name (post box delivery)		2.10
DeliveryPointId		Delivery point (post box delivery)		2.10
Transport		Transport (post box delivery)		2.10
Location		Location (post box delivery)		2.10
AddressSequence		Address sequence (post box delivery)		2.10
CurrencyCode		Currency code	Currency code for customs value	2.14

CustomsType		Goods type for customs	See list below	2.14
CustomsStatus		Customs status	See list below	2.14
DeliveryPinCode		PIN-code for delivery		2.16
ShipmentRow		Starts parcel level	Max 5 parcels per shipment	
Packageld		Parcel id		
Weight		Parcel weight (kg)		
Volume		Parcel volume (kg)		
Length		Parcel length (cm)		2.14
Width		Parcel width (cm)		2.14
Height		Parcel height (cm)		2.14
Goods		Parcel goods		
GoodsRow		Starts goods level, max. 5 goods per ShipmentRow	For customs	2.14
GoodsDescription		Goods description		2.14
Quantity		Quantity of goods		2.14
CustomsValue		Customs value	2 decimals	2.14
NetWeight		Net weight	2 decimals	2.14
CountryOfOrigin		Country of origin	Country code	2.14
CommodityCode		Commodity code		2.14
DangerousGoodsRow		Starts dangerous goods level, max 3 goods per ShipmentRow	Used with shipments containing dangerous goods	2.17
UNCode		UN-code	E.g. 1234, without the UN prefix	2.17
AdrDescription		Dangerous goods name		2.17
AdrTechnicalName		Technical name		2.17
AdrClass		Adr class code		2.17
AdrType		Adr type code		2.17
AdrPackageGroup		Package group		2.17
AdrWeight		Weight (kg)	2 decimals	2.20
AdrVolume		Volume (liters)	2 decimals	2.21

AdrAdditionalClass1		Subsidiary Risks		2.19
AdrAdditionalClass2		Subsidiary Risks		2.19

Mandatory info marked with "X" in column "M".

Notice 1.: Payer's id (account number in Matkahuolto) is always mandatory (senderId, receiverId or payerId).

Notice 2: When ShipmentNumber given by customer, ShipmentRow must be added for each PackageId in one shipment

Example: If shipment id is MA018308594000000001 and shipment includes parcels MA018308594000000001 and MA018308594000000002, then:

```
<ShipmentRow>
  <PackageId>MA018308594000000001</PackageId>
</ShipmentRow>
<ShipmentRow>
  <PackageId>MA018308594000000002</PackageId>
</ShipmentRow>
```

In shipments where customs clearance is needed sender should send additional information for customs by using GoodsRow -elements (max. 5 goods rows per parcel). For example

```
<ShipmentRow>
  <GoodsRow>
    <GoodsDescription>Goods 1</GoodsDescription>
    <Quantity>5</Quantity>
    <CustomsValue>185</CustomsValue>
    <NetWeight>2.65</NetWeight>
    <CountryOfOrigin>CN</CountryOfOrigin>
    <CommodityCode>1122334455</CommodityCode>
  </GoodsRow>
  <GoodsRow>
    <GoodsDescription>Goods 2</GoodsDescription>
    <Quantity>1</Quantity>
    <CustomsValue>15</CustomsValue>
    <NetWeight>8</NetWeight>
```

```
<CountryOfOrigin>JP</CountryOfOrigin>  
<CommodityCode>1122334466</CommodityCode>  
<GoodsRow>  
</ShipmentRow>
```

Shipments containing dangerous goods require special information to be sent for each parcel containing those (max. 3 different goods per parcel). For example:

```
<ShipmentRow>  
<DangerousGoodsRow>  
<UNCode>1263</UNCode>  
<AdrDescription>Maali</AdrDescription>  
<AdrTechnicalName>Liuotin</AdrTechnicalName>  
<AdrClass>3</AdrClass>  
<AdrType>FI</AdrType>  
<AdrPackageGroup>I</AdrPackageGroup>  
<AdrWeight>0.85</AdrWeight>  
<AdrVolume>1.23</AdrVolume>  
<AdrAdditionalClass1></AdrAdditionalClass1>  
<AdrAdditionalClass2></AdrAdditionalClass2>  
</DangerousGoodsRow>  
</ShipmentRow>
```

Product codes

	ProductCode	ProductName	Product checkout name
*	30	Jakopaketti	Matkahuolto yritysjakelu päivällä
	34	Kotijakelu	Matkahuolto kotiinkuljetus
	37	XXS-luukkujakelu	Matkahuolto kotiinkuljetus
	57	Lavarahti	Matkahuollon kotiinkuljetus kotipihaan
*	58	Rahti	
	80	Lähellä-paketti	Matkahuolto pakettipiste tai - automaatti
*	81	Asiakaspalautus	

	84	XXS	Matkahuolto pakettipiste tai - automaatti
*	91	Ulkomaan Asiakaspalautus	
	95	Ulkomaan Lähellä-paketti	Matkahuolto parcel point or parcel locker
*	96	Ulkomaan Jakopaketti	Matkahuolto daytime business delivery
	97	Ulkomaan Kotijakelu	Matkahuolto home delivery

*Not to be visible to consumers.

Special handling codes

SpecialHandling Description

E01	ADR (old version, VA / LQ should be used)
K02	Large shipment
K04	Handle with care
K06	Delivery without signature
HL	Handing over in person
SP1	Postpone timeout return for 7 days
VA	Dangerous goods (specified in group DangerousGoodsRow)
LQ	Dangerous goods - Limited Quantity
SET	Pre-delivery Call

If there are several special handlings for shipment their codes are separated by comma.

CustomsType	Description
COMMODITY	Normal goods
DOCUMENT	Document
SAMPLE	Sample
GIFT	Gift

CustomsStatus	Description
UNCLEARED	Uncleared
TRANSIT	In transit
CLEARANCE	In customs clearance
CLEARED	Cleared

2.2 Reply

XML-element	Description	Remarks	Version
MHShipmentReply	Message id		
Version	Version number		
Shipment	Begins shipmentlevel		
ShipmentNumber	Number of the shipment		
SenderReference	Sender reference		
ActivationCode	Activation code		2.0
ShipmentPdf	Shipping document	Binary-pdf	
pdfName	Original name of the document	xxxxx.pdf	

In response there is the shipment pdf and also the shipment number and the shipment reference. These can be saved to tracking and other purposes.

If the request is made for shipment with activation code, the code will be in response

If the request is for deleting (MessageType = D) and deleting is done correctly, the reply will be error message with an ErrorNbr 0.

2.3 Reply when error

XML-elementti	Kuvaus	Huomautukset	Versio
MHShipmentReply	Sanoman tunnus		
Version	Version number		
ErrorNbr	Error number		
ErrorMsg	Error description		
Shipment	Begins shipment level		
ShipmentNumber	Shipment number		2.3

SenderReference	Sender reference		2.3
ErrorNbr	Error number		2.3
ErrorMsg	Error description		2.3

Possible error numbers and descriptions are:

0	Shipment deleted
1001	Login failed
1002	Wrong Userid
1003	Mandatory information missing
1004	Other error in request message
1005	System error
1006	Weight is greater than allowed
1007	Parcel count is greater than allowed
1008	Error in shipment number
1009	Error in parcel number
1010	Error in shipment type
1011	Error in messagetype
1012	Error in product code
1013	Error in destination place
1014	Volume is greater than allowed
1015	COD-sum is greater than allowed
1016	Parcel count is greater than allowed
1017	COD not allowed for product
1018	Error in decimal field (point should be used as decimal separator)
1019	Selected product is not allowed for cash payer
1020	COD is not allowed for pickup point
1021	Additional service is not allowed for product
1022	Customs clearance is already defined for shipment
1023	Invalid UNCode for dangerous goods defined
1024	Too many dangerous goods rows for shipment row

3 EXAMPLES

3.1 Request

```
<?xml version='1.0' encoding='UTF-8'?>
<MHShipmentRequest>
  <UserId>9430023</UserId>
  <Password>456</Password>
  <Version>2.0</Version>
  <Shipment>
    <ShipmentType>N</ShipmentType>
    <MessageType>N</MessageType>
    <ShipmentNumber></ShipmentNumber>
    <ShipmentDate>21.02.2014</ShipmentDate>
    <Weight>3.25</Weight>
    <Volume>0.025</Volume>
    <Packages>2</Packages>
    <PackageType>RC</PackageType>
    <SenderId>9430023</SenderId>
    <SenderName1>TESTIASIAKAS OY</SenderName1>
    <SenderName2></SenderName2>
    <SenderAddress>Kaivokatu 1</SenderAddress>
    <SenderAddress2>3. floor, door 2</SenderAddress2>
    <SenderPostal>00100</SenderPostal>
    <SenderCity>HELSINKI</SenderCity>
    <SenderCountry>FI</SenderCountry>
    <SenderContactName>Liisa Lähetäjä</SenderContactName>
    <SenderContactNumber>050-1234567</SenderContactNumber>

    <SenderEmail>liisa.lahettaja@testiasiakas.fi</SenderEmail>
    <SenderBusinessCode>1234567-8</SenderBusinessCode>
    <SenderCustomsCode>1234-5</SenderCustomsCode>
    <SenderReference>L12345678</SenderReference>
    <DeparturePlaceCode></DeparturePlaceCode>
    <DeparturePlaceName>HELSINKI</DeparturePlaceName>
    <ReceiverId></ReceiverId>
    <ReceiverName1>MALLIASIAKAS OY</ReceiverName1>
    <ReceiverName2></ReceiverName2>
```

```
<ReceiverAddress>HÄMEENKATU 1</ReceiverAddress>
<ReceiverAddress2>Backyard</ReceiverAddress2>
<ReceiverPostal>33100</ReceiverPostal>
<ReceiverCity>TAMPERE</ReceiverCity>
<ReceiverCountry>FI</ReceiverCountry>
<ReceiverContactName>Ville
Varastomies</ReceiverContactName>
<ReceiverContactNumber>03-1234567</ReceiverContactNumber>
<ReceiverEmail>info@malliasiakas.fi</ReceiverEmail>
<ReceiverBusinessCode>1234567-8</ReceiverBusinessCode>
<ReceiverCustomsCode>1234-5</ReceiverCustomsCode>
<ReceiverReference>V112233</ReceiverReference>
<ReceiverLanguage>FI</ReceiverLanguage>
<DestinationPlaceCode></DestinationPlaceCode>
<DestinationPlaceName>TAMPERE</DestinationPlaceName>
<PayerCode>0</PayerCode>
<PayerId>9430878</PayerId>
<PayerName1>MAKSAJA OY</PayerName1>
<PayerName2></PayerName2>
<PayerAddress>Asematie 1</PayerAddress>
<PayerPostal>01300</PayerPostal>
<PayerCity>VANTAA</PayerCity>
<PayerCountry>FI</PayerCountry>
<PayerContactName>Matti Maksaja</PayerContactName>
<PayerContactNumber>050-8834567</PayerContactNumber>
<PayerEmail>liisa.lahettaja@testiasiakas.fi</PayerEmail>
<PayerReference>M2233</PayerReference>
<Remarks></Remarks>
<ProductCode>30</ProductCode>
<ProductName>JAKOPAKETTI</ProductName>
<Pickup>Y</Pickup>
<PickupPayer>S</PickupPayer>
<PickupRemarks>Pickup earlier than 16:00</PickupRemarks>
<Delivery>Y</Delivery>
<DeliveryPayer>R</DeliveryPayer>
<DeliveryRemarks>Call beforehand</DeliveryRemarks>
<Goods>Spare parts</Goods>
<SpecialHandling>K04,K06</SpecialHandling>
<DocumentType></DocumentType>
```



```
<RouteNumber>9272024</RouteNumber>
<RouteName>NUMMELA 24</RouteName>
<DeliveryPointId>10466571</DeliveryPointId>
<Transport>NUMMI-P & NUMMELA</Transport>
<Location>OJAKKALANTIE 1</Location>
<AddressSequence>858</AddressSequence>
<CurrencyCode>USD</CurrencyCode>
<CustomsType>COMMODITY</CustomsType>
<CustomsStatus>CLEARED</CustomsStatus>
<DeliveryPinCode>12345678</DeliveryPinCode>
</Shipment>
</MHShipmentRequest>
```

3.2 Reply

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<MHShipmentReply>
  <Version>2.0</Version>
  <Shipment>
    <ShipmentNumber>MH833844050FI</ShipmentNumber>
    <SenderReference>L12345678</SenderReference>
  </Shipment>
  <ShipmentPdf>
    ... Document in pdf-form...BASE64-ENCODED
  </ShipmentPdf>
  <PdfName>
    MH833844050FI.pdf
  </PdfName>
</MHShipmentReply>
```

3.3 Reply (Shipment with activation code)

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<MHShipmentReply>
  <Version>2.0</Version>
  <Shipment>
    <ShipmentNumber>MH833844050FI</ShipmentNumber>
```

```
        <SenderReference>L12345678</SenderReference>
        <ActivationCode>1000019</ActivationCode>
    </Shipment>
    <ShipmentPdf>
        ...Document in pdf-form...BASE64-ENCODED
    </ShipmentPdf>
    <PdfName>
        MH833844050FI.pdf
    </PdfName>
</MHShipmentReply>
```

3.4 Reply when error

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<MHShipmentReply>
    <Version>2.0</Version>
    <ErrorNbr>1001</ErrorNbr>
    <ErrorMsg>Ei käyttöoikeutta</ErrorMsg>
</MHShipmentReply>
```

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<MHShipmentReply>
    <Version>2.0</Version>
    <ErrorNbr>1002</ErrorNbr>
    <ErrorMsg>Virheellinen lähettäjän asiakasnumero</ErrorMsg>
    <Shipment>
        <ShipmentNumber>MA018308594000000001</ShipmentNumber>
        <SenderReference>SR1</SenderReference>
        <ErrorNbr>1002</ErrorNbr>
        <ErrorMsg>Virheellinen lähettäjän
            asiakasnumero</ErrorMsg>
    </Shipment>
</MHShipmentReply>
```