

## **TECHNICAL DESCRIPTION**

Matkahuolto's shipment document interface

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2.3  
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## MUUTOSHISTORIA

Versio ja pvm	Laatija	Muutoksen kuvaus
1.0 / 07.07.2009	Ismo Koskinen	- First version
1.1 / 27.07.2009	Lasse Vuoti	- Added info
1.2 / 13.08.2009	Lasse Vuoti	- puserId
1.3 / 23.05.2013	Ismo Koskinen	- Added SpecialHandling
2.0 / 21.02.2014	Ismo Koskinen	- Activation code, returns handling, other payer
2.1 / 09.04.2014	Julian Iizuka	- Updated examples for version 2
2.2 / 29.12.2014	Ismo Koskinen	- added version 2 addresses and countries
2.3 / 5.2.2015	Janne Reiman	- added ShipmentRow examples

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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	e.g. 1.23, use dot to separate	
Volume		Shipment volume	e.g. 0.123, use dot to separate	
Packages	X	Packages in shipment	Integer	
SenderId	X	Account number in Matkahuolto	same as pUserId	
SenderName1		Sender name 1		
SenderName2		Sender name 2		
SenderAddress		Sender address		
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		
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		
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		
ReceiverReference		Receiver reference		
DestinationPlaceCode		Comes from office selection-interface	Needed when product is "Near parcel, 80"	
DestinationPlaceName		Comes from office selection-interface		
PayerCode		Payer for the shipment	S=sender	2.0
			R=receiver	
			O=other (when "O", payers account code given in PayerId)	
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		
CODSum		Sum for COD	2 decimals, use dot to separate	
CODCurrency		Currency for COD	Default=EUR	
CODAccount		Account for COD		
CODBic		BIC code for COD		2.0
CODReference		Reference for COD		
Goods		Goods		
SpecialHandling		Special handling	Code for special handling, see list below	
VAKCode		Possible ADR-code for the product		
VAKDescription		Description for possible ADR-product		
DocumentType		Document type	If value NO then no label is returned in response message	
SpecialHandover		Special Handover	Y=yes, N=no, default N	2.3
HandoverRemark1		HandoverRemark1		2.3
HandoverRemark2		HandoverRemark2		2.3
HandoverRemark3		HandoverRemark3		2.3
ShipmentRow		Begins package level	Max 15 packages / shipment	
Packageld		Package Id		
Weight		Package weight		
Volume		Package volume		
Goods		Goods		

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 Packageld in one shipment

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

```
<ShipmentRow>
<Packageld>MA018308594000000001</Packageld>
</ShipmentRow>
```

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

Product codes;

ProductCode	ProductName
10	Bus parcel
30	Delivery parcel
34	Home delivery
40	Freight bag
42	Delivery parcel for Freight bag
43	Document envelope
44	Delivery parcel for Document envelope
57	Pallets
80	Near Parcel

Erikoiskäsittelykoodit

SpecialHandling	Description
E01	ADR (ADR-code in VAKCode)
K02	Circumference
K04	Handle with care
K05	Temperature

## 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



### 3 EXAMPLES

#### 3.1 Request

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<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>
    <SenderId>9430023</SenderId>
    <SenderName1>TESTIASIAKAS OY</SenderName1>
    <SenderName2></SenderName2>
    <SenderAddress>Kaivokatu 1</SenderAddress>
    <SenderPostal>00100</SenderPostal>
    <SenderCity>HELSINKI</SenderCity>
    <SenderCountry>FI</SenderCountry>
    <SenderContactName>Liisa Lähettäjä</SenderContactName>
    <SenderContactNumber>050-1234567</SenderContactNumber>
    <SenderEmail>liisa.lahettaja@testiasiakas.fi</SenderEmail>
    <SenderReference>L12345678</SenderReference>
    <DeparturePlaceCode></DeparturePlaceCode>
    <DeparturePlaceName>HELSINKI</DeparturePlaceName>
    <ReceiverId></ReceiverId>
    <ReceiverName1>MALLIASIAKAS OY</ReceiverName1>
    <ReceiverName2></ReceiverName2>
    <ReceiverAddress>HÄMEENKATU 1</ReceiverAddress>
    <ReceiverPostal>33100</ReceiverPostal>
    <ReceiverCity>TAMPERE</ReceiverCity>
    <ReceiverCountry>FI</ReceiverCountry>
    <ReceiverContactName>Ville Varastomies</ReceiverContactName>
    <ReceiverContactNumber>03-1234567</ReceiverContactNumber>
    <ReceiverEmail>info@malliasiakas.fi</ReceiverEmail>
    <ReceiverReference>V112233</ReceiverReference>
    <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 BEFORE 16:00</PickupRemarks>
<Delivery>Y</Delivery>
<DeliveryPayer>R</DeliveryPayer>
<DeliveryRemarks>CALL BEFORE DELIVERY</DeliveryRemarks>
<CODSum>105.55</CODSum>
<CODCurrency>EUR</CODCurrency>
<CODAccount>FI1715963000011512</CODAccount>
<CODBic>NDEAFIHH</CODBic>
<CODReference>13</CODReference>
<Goods>Spare Parts</Goods>
<SpecialHandling>K04</SpecialHandling>
<VAKCode></VAKCode>
<VAKDescription></VAKDescription>
<DocumentType></DocumentType>
<SpecialHandover>Y</SpecialHandover>
<HandoverRemark1>Remark 1</HandoverRemark1>
<HandoverRemark2>Remark 2</HandoverRemark2>
<HandoverRemark3>Remark 3</HandoverRemark3>
</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>MA0183085940000000001</ShipmentNumber>
    <SenderReference>SR1</SenderReference>
    <ErrorNbr>1002</ErrorNbr>
    <ErrorMsg>Virheellinen lähettäjän asiakasnumero</ErrorMsg>
  </Shipment>
</MHShipmentReply>
```