

# INTERFACE DESCRIPTION

## Matkahuolto Tracking Interface

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## CHANGE LOG

<b>Version / date</b>	<b>Author</b>	<b>Description</b>
1.0 / 19.02.2018	Ismo Koskinen	First version
1.1 / 22.03.2018	Ismo Koskinen	Changed parameter names
1.2 / 08.05.2020	Ismo Koskinen	Added new event 97 (delivery unsuccessful)
1.3 / 03.06.2024	Ismo Koskinen	Added new event 104 (deviation added)

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# 1 GENERAL

This document describes Matkahuolto Tracking Interface. Interface is used by customers of Matkahuolto parcel services. Customers can get tracking events for their own shipments.

Service uses REST-requests with http-method GET.

Authentication is based on http basic authentication. Matkahuolto sales department creates user id and password on request of customer.

Address for live environment:

<https://extservices.matkahuolto.fi/mpaketti/public/tracking>

Address for test environment:

<https://extservicetest.matkahuolto.fi/mpaketti/public/tracking>

## 2 MESSAGES

### 2.1 Request

GET `mpaketti/public/tracking?ids=<id1,id2,...>&from=<date>&to=<date>`

Parameters

1. **ids** = comma-separated list of shipment / parcels ids. Max. 10 values per request is allowed.
2. **from** = timestamp of time range start. Format is `dateTime`, for example `2018-01-11T11:47:30`.
3. **to** = timestamp of time range end. Format is `dateTime`, for example `2018-01-11T13:47:30`.

Either id or one of the time ranges is mandatory. If they are missing, service returns error HTTP-status 400 Bad request.

Response is returned as XML by default. If customer wants it to be in JSON, it can be done by setting HTTP Accept -header to "Accept: application/json".

## 2.2 Event codes

Event codes of statuses are listed in table below.

Event code	Description
02	Electronic advance notice received
08	Picked up from sender
10	Received at departing parcel point
12	Consolidated
15	Received for carriage
25	Loaded for main transport
35	Received at destination terminal
40	Waiting to be loaded for delivery
41	Waiting to be loaded for parcel point
45	Loaded for delivery
46	Loaded for delivery to parcel point
47	Delivered to parcel point
48	Received at parcel point
50	Ready to be collected
55	First arrival notification sent
56	Second arrival notification sent
57	Manual arrival notification sent
60	Handed over to the recipient
61	Handed over to the proxy
62	Handover cancelled
65	COD paid to sender
70	Returned uncollected
97	Delivery attempt unsuccessful
104	Deviation added

## 2.3 Error codes

Error codes are listed in table below.

HTTP-status	Error code	Description
400	10	Mandatory parameter missing
400	11	Date format is not valid

400	12	Max. 10 numbers per request allowed
400	13	Time range too large
401	50	Authentication failed
405	60	Only GET method allowed

## 2.4 Response (XML)

XML-element	Description	Remarks
MHTrackingEvents	Message header	
Event	Event group header	
EventId	Unique id of event	
ShipmentNumber	Shipment id	
ParcelNumber	Parcel id	
SenderReference	Sender's reference	
EventCode	Event code	See table above
EventTime	Event timestamp	E.g. 2014-04-14T13:35:10+02:00
EventPlace	Event place	City of event
OfficeCode	Event office code	Matkahuolto's office id of event
Signature	Name of receiving person	Only with delivery statuses
Remarks	Shipment remark text	
ReturnShipmentNumber	Return shipment id	Only with timeout return

Some fields return only with certain event codes. For example, Signature returns only with delivery status (event code 60 or 61) and return shipment id only with return (event code 70).

Example:

```
<?xml version='1.0' encoding='UTF-8'?>
<MHTrackingEvents>
  <Event>
    <EventId>197897868688</EventId>
    <ShipmentNumber>MH302164795FI</ShipmentNumber>
    <ParcelNumber>MH302164795F3</ParcelNumber>
    <SenderReference>SR66893</SenderReference>
```

```
<EventCode>60</EventCode>
<EventTime>2014-04-14T13:35:10+02:00</EventTime>
<EventPlace>HELSINKI</EventPlace>
<OfficeCode>7</OfficeCode>
<Signature>Mr. Receiver</Signature>
<Remarks>Additional Info</Remarks>
<ReturnShipmentNumber></ReturnShipmentNumber>
</Event>
<MHTrackingEvents>
```

## 2.5 Error message (XML)

XML-element	Description	Remarks
MHTrackingEvents	Message header	
Error	Group header	
EventId	Unique id of event	
ErrorCode	Error code	See separate table
ErrorText	Error description	

Example:

```
<?xml version='1.0' encoding='UTF-8'?>
<MHTrackingEvents>
  <Error>
    <EventId>197897868688</EventId>
    <ErrorCode>10</ErrorCode>
    <ErrorText>Mandatory parameter missing</ErrorText>
  </Error>
  <Error>
    <EventId>197897868689</EventId>
    <ErrorCode>50</ErrorCode>
    <ErrorText>Login failed</ErrorText>
  </Error>
</MHTrackingEvents>
```

Error message is not returned when request is in valid format. For example, if no event can be found with given criteria, service returns empty return message, not error.

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