

# Technical description

Oy Matkahuolto Ab – interface for office selection

## CHANGE LOG

Version / date	Description
1.0 / 30.03.2017	- First version (MPaketti)
1.1 / 29.01.2018	- Added Coordinates parameter
1.2 / 21.03.2018	- Added Id parameter
1.3 / 7.9.2019	- Added OfficeType values A and N
1.4 / 18.02.2020	- Added OfficeType values MHA and MHM
1.5 / 10.02.2022	- Added OfficeType value U
1.6 / 27.01.2023	- Added OfficeType value LQ

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## 1 GENERAL

Matkahuolto offers an interface for their customers to search and select the nearest pickup point for shipments. Matkahuolto maintains the list of current pickup points and offers needed geocoding services (Google Maps) to search nearest pickup points for given address.

Customers handle the response message in their system and saves information of the selected pickup point in the database. Information is sent to Matkahuolto's system with other shipment data (EDI-transfer, WWW-interface etc.).

Customer's customer number needs to be added to database before service is used (see Login -field below).

Request message is sent to address

<https://extservices.matkahuolto.fi/noutopistehaku/public/v2/searchoffices>

For previous version users (so called Map24MH) there's also another address. Actual service is same than above, but response message is url-encoded same way than in old version. Address for this legacy version is

<https://extservices.matkahuolto.fi/noutopistehaku/public/searchoffices>

Request must use http-method POST and "Content-Type" -header has to be set to "application/xml" or "text/xml".

## 2 MESSAGE DESCRIPTIONS

### 2.1 Request

XML-element	Description	Remarks
MHSearchOfficesRequest	Message id	
Login	Customer number	Matkahuolto's customer number

Version	Version number	
Id	Office id	Used when office id is known beforehand. Only one office is returned.
StreetAddress	Receiver's street address	
PostalCode	Receiver's postal code	
City	Receiver's city	
Country	Receiver's country code	Two letter country code, default FI = Finland
OfficeType	Wanted office types	
ResponseType	Response type (XML/CSV)	Default XML
MaxResults	Max number of results	Default 5
Coordinates	Return also coordinates	Value Y / N. Default N

Mandatory fields are Message id and Login. In addition request must contain postal code or city.

With OfficeType –field returned results can be restricted as followed;

M	Matkahuolto's terminals and Parcel Points
T	All pickup points
R	R-Kiosks
P	Safe delivery offices (requires agreement with Matkahuolto)
A	Only Parcel Lockers
N	All pickup points excluding Parcel Lockers
U	Leave outdoor Parcel Lockers off from response
LQ	Only pickup points that allow LQ shipments
MHA	Matkahuolto terminals
MHM	Matkahuolto's parcel points

Other values return all types of offices.

With ResponseType field value CSV responses are returned as comma-separated list, not as XML.

With Coordinates field value Y also office's coordinates are added to response message.

Id -parameter is used when office's id is known beforehand. In this case response contains only info for requested office. This can be used for example to get office name and address for label.

## 2.2 Response

XML-element	Description	Remarks
MHSearchOfficesReply	Message id	
Office	Group header	
SeqNumber	Sequence number	1 = nearest, 2 = second nearest, ...
Id	Office id	Office id number (sent with shipment data)
Type	Office type	
Name	Office name	
StreetAddress	Office street address	
PostalCode	Office postal code	
City	Office city	
Country	Office country code	
MhOffice	Matkahuolto handling office	Matkahuolto's nearest own office
ShopId	ShopId	Pickup points internal code
Distance	Distance km	Distance to given address
Latitude	Latitude in decimal format	Example 60,278755
Longitude	Longitude in decimal format	Example 25,103924

Value for office type is returned as follows:

MHA	Matkahuolto's terminal
MHM	Matkahuolto's Parcel Point
MHT	Matkahuolto's terminal
MHN	Matkahuolto Parcel Point
MHE	Matkahuolto Parcel Locker
MHX	Pickup point abroad

## 2.3 Error message

XML-element	Description	Remarks
MHSearchOfficesReply	Message id	
ErrorNbr	Error number	
ErrorMsg	Error text	

Error numbers and texts are as followed;

1001	Login failed
1002	Postal code or city must be defined in request message
1003	Address not found
1004	Offices not found
1005	Unexpected error

## 3 EXAMPLES

### 3.1 Request

Search nearest offices for given address:

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<MHSearchOfficesRequest>
  <Login>1234567</Login>
  <Version>1.0</Version>
  <StreetAddress>Moukarinkuja 2</StreetAddress>
  <PostalCode>04300</PostalCode>
  <City>Tuusula</City>
  <Country>FI</Country>
  <OfficeType></OfficeType>
  <ResponseType>XML</ResponseType>
  <MaxResults>3</MaxResults>
  <Coordinates>Y</Coordinates>
</MHSearchOfficesRequest>
```

Search office info for given office id:

```
<?xml version='1.0' encoding='ISO-8859-1'?>
<MHSearchOfficesRequest>
  <Login>1234567</Login>
  <Version>1.0</Version>
  <Id>8002</Id>
  <ResponseType>XML</ResponseType>
  <Coordinates>Y</Coordinates>
</MHSearchOfficesRequest>
```

### 3.2 Response as XML

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<MHSearchOfficesReply>
  <Office>
    <SeqNumber>1</SeqNumber>
    <Id>8677</Id>
    <Type>MHN</Type>
    <Name>K-MARKET TUUSULA SAHANKULMA</Name>
    <StreetAddress>MOUKARINKUJA 2</StreetAddress>
    <PostalCode>04300</PostalCode>
    <City>TUUSULA</City>
    <Country>FI</Country>
    <ShopId>L613</ShopId>
    <Distance>0</Distance>
    <Latitude>60,388721</Latitude>
    <Longitude>25,0218</Longitude>
  </Office>
  <Office>
    <SeqNumber>2</SeqNumber>
    <Id>4135</Id>
    <Type>MHN</Type>
    <Name>R-KIOSKI TUUSULA HYRYLÄ LINJA-AUTOASEMA</Name>
    <StreetAddress>KOSKENMÄENPOLKU 1</StreetAddress>
    <PostalCode>04300</PostalCode>
    <City>TUUSULA</City>
    <Country>FI</Country>
```



```
<ShopId>715944</ShopId>
<Distance>2</Distance>
<Latitude>60,402424</Latitude>
<Longitude>25,027363</Longitude>
</Office>
<Office>
  <SeqNumber>3</SeqNumber>
  <Id>2467</Id>
  <Type>MHM</Type>
  <Name>HYRYLÄ MH-ASIAMIES</Name>
  <StreetAddress>AUTOASEMANKATU 2</StreetAddress>
  <PostalCode>04300</PostalCode>
  <City>TUUSULA</City>
  <Country>FI</Country>
  <MhOffice>HELSINKI</MhOffice>
  <Distance>2,5</Distance>
  <Latitude>60,402011</Latitude>
  <Longitude>25,028236</Longitude>
</Office>
<Office>
  <SeqNumber>4</SeqNumber>
  <Id>4240</Id>
  <Type>MHN</Type>
  <Name>R-KIOSKI KERAVA SAVIO KOIVIKONTIE 2</Name>
  <StreetAddress>KOIVIKONTIE 2</StreetAddress>
  <PostalCode>04260</PostalCode>
  <City>KERAVA</City>
  <Country>FI</Country>
  <ShopId>715137</ShopId>
  <Distance>5,7</Distance>
  <Latitude>60,380401</Latitude>
  <Longitude>25,096312</Longitude>
</Office>
<Office>
  <SeqNumber>5</SeqNumber>
  <Id>8362</Id>
  <Type>MHN</Type>
  <Name>K-MARKET VANTAA KORSO VIERUMÄKI</Name>
  <StreetAddress>Riskiläkuja 2 A</StreetAddress>
```

```
<PostalCode>01450</PostalCode>
<City>VANTAA</City>
<Country>FI</Country>
<ShopId>L241</ShopId>
<Distance>6,6</Distance>
<Latitude>60,35516</Latitude>
<Longitude>25,049459</Longitude>
</Office>
</MHSearchOfficesReply>
```

### 3.3 Error message as XML

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<MHSearchOfficesReply>
  <ErrorNbr>1001</ErrorNbr>
  <ErrorMsg>Ei käyttöoikeutta</ErrorMsg>
</MHSearchOfficesReply>
```

### 3.4 Response as CSV

```
1;8222;MHN;K-MARKET TUUSULA HYRYLÄ;Moukarinkuja
2;04300;TUUSULA;;L613;0;;;FI
2;266;MHM;HYRYLÄ MH -ASIAMIES;AUTOASEMANKATU
2;04300;TUUSULA;;00000000;2,5;;;FI
3;4240;MHN;R-KIOSKI KERAVA SAVIO;KOIVIKONTIE
2;04260;KERAVA;;715137;5,7;;;FI
```

### 3.5 Error message as CSV

```
ERROR;1001;Ei käyttöoikeutta
```