

# MPL Tracking technical description



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## 1. View of synthesis

Magyar Posta Zrt. offers MPL API web services that allow its partners:

- to retrieve information about the life cycle of parcels

to track packages delivered by our company.

The MPL API services are free of charge, although customers may incur expenses developing their own related components.

Magyar Posta Zrt. does not assume any liability for such expenses arising from development, implementation and testing activities.

## 2. Document

### Purpose of the Document

This document provides guidelines for MPL API customers, and a detailed description for the integration of MPL API REST web services.

The document elaborates on the following:

- Web service interface specification
- Error codes returned by the API
- Non-functional description of the API, including the availability of the service, and security requirements

The document is mainly targeted at developers and system integrators.

### Document History

Alternative	Datum	Comments
1.0	18/08/2020	Document created
1.1		

### 3. Connecting to MPL Tracking API

The following flowchart shows a high-level description of the steps of connecting to the MPL API

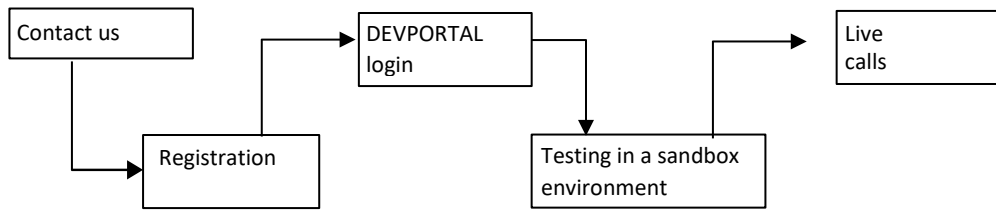


Figure 1 – Process of connecting to the MPL Tracking API

#### General Terms and Conditions

[https://www.posta.hu/general\\_terms\\_and\\_conditions](https://www.posta.hu/general_terms_and_conditions)

#### Devportal access

You can access the Devportal in the live environment at the following URL:

<https://devportal.posta.hu>

After logging in to the Devportal, you can view and copy the **API Key(client\_id)** and **API Secret (client\_secret)** values that are required for accessing the API Sandbox and the live environment.

#### Tracking API Access

You can access the MPL Tracking API in the live environment at the following URL:

<https://core.api.posta.hu/v2/nyomkovetes>

You can access the MPL Tracking API in the sandbox postal environment at the following URL:

<https://sandbox.api.posta.hu/v2/nyomkovetes>

Every business call should include the value of the Authorization key, otherwise you will receive an HTTP 401 (Unauthorized) error message.

#### Sandbox (test) environment

The Sandbox (test) endpoint published on the Internet is backed by a so called Mock service. By setting parameters, the Mock services can be configured so that its operation may approximate the live environment background service as much as possible.

## Live environment

Behind the live endpoint published on the Internet is a live environment background service.

## API versioning

Magyar Posta Zrt. has been developing its services all the time, which entails that from time to time a new version of MPL API services is rolled out.

Magyar Posta Zrt. plans to maintain 3 versions of the MPL API:

- Current version
- Previous version
- Cancelled version

You always need to connect to the current version of the MPL API service as it is the version that provides the longest stable operating time without having to make changes to the calling system. If integration is already being developed in a calling system when a new version of the MPL API is released, the calling system can continue using the **previous version**.

We recommend that you should not use a cancelled version to integrate you calling system.

## 4. Integration recommendations

API calls generate data traffic, and MPL incurs expenses as a result, and for this reason MPL reserves the right to limit access to the API service in case of extreme overuse.

For optimal operation, we suggest that the following should be considered when integrating the MPL Tracking API.

- The MPL Tracking API is not a high-volume data retrieval service but a fast, real-time parcel lifecycle data query solution. For this reason, a single call may be used to query the lifecycle data of several parcels, but currently **1 parcel** at the same time. (the system will return an error message if you attempt to retrieve data of more than 1 parcel at the same time)
- Our **recommended frequency** for queries is **4 hours**.  
If it is justifiable, queries may be launched **every hour at the most**. This frequency provides assured access even to the most recent data (even our systems do not produce more recent relevant lifecycle data more frequently).
- The lower number of calls helps speed up the process. Consequently, we strongly recommend configuring the process so as **not to initiate a new query for parcels that have been delivered**.

## 5. Operations

### POST /registered

<b>Operation/ Resource name:</b>	<b>POST /registered</b>			
<b>Short description of operation:</b>	Tracking data for registered customers			
<b>Detailed description of request</b>				
Parameter Name	Type	Multiplicity	Note/description	Mappings
HttpHeader	HeaderType	1	General header parameters, always mandatory	
language	string	0..1	'hu' = Hungarian 'en' = English 'de' = German default: 'hu'	
ids	string	1	Product identifier, 1 identifier	
state	string	0..1	'last' = only the last state 'all' = all states default: 'last'	
<b>Detailed description of response</b>				
Parameter Name	Type	Multiplicity	Note/description	Mappings
HttpHeader	HeaderType	1	General header parameters, mandatory	
RegisteredTrackAndTraceResult	RegisteredCreateResult	0..n	Item data	
FaultCreateResult	ErrorResult	0..1	Common fault structure, optional.	
<b>Related background system</b>	IKRK			

### POST /guest.

<b>Operation/ Resource name:</b>	<b>POST /guest</b>			
<b>Short description of operation:</b>	Tracking data for non-registered customers			
<b>Detailed description of request</b>				
Parameter Name	Type	Multiplicity	Note/description	Mappings
HttpHeader	HeaderType	1	General header parameters,	



	pe		mandatory	
language	string	0...1	'hu' = Hungarian 'en' = English 'de' = German default: 'hu'	
ids	string	1	Product identifier, 1 identifier	
state	string	0...1	'last' = only the last state 'all' = all states default: 'last'	
<b>Detailed description of response</b>				
<b>Parameter Name</b>	<b>Type</b>	<b>Multiplicity</b>	<b>Note/description</b>	<b>Mappings</b>
HTTPHeader	HeaderType	1	General header parameters, mandatory	
GuestTrackAndTraceResult	GuestCreateResult	0...n, NULL	Item data	
FaultCreateResult	ErrorResult	0..1	Common fault structure, optional.	
<b>Related background system</b>	IKRK			

## 6. Classes

### RegisteredCreateResult

Item data

Parameter Name	Type	Multiplicity	Note/description	Mappings
c0	string	0..1	Name of background system in the case of EÉRT, BPU: Mail item type for IKR/"IKR" letter and "IKRCS" parcel	
c1	string	0..1	Mail item identifier	
c2	string	0..1	Base service name	
c4	string	0..1	Mode of delivery	
c5	string	0..1	Amount of value insurance	
c6	string	0..1	Amount of payment for goods	
c8	string	0..1	Retention time	
c9	string	0..1	Event description	
c10	string	0..1	Event description category	
c11	string	0..1	Event date	
c12	string	0..1	Event time	
c13	string	0..1	Accepting post office	
c38	string	0..1	Recipient's country identifier	
c39	string	0..1	Recipient's country name	
c41	string	0..1	Weight	
c42	string	0..1	Size	
c43	string	0..1	Event category code	
c49	string	0..1	Sender's country identifier	
c53	string	0..1	Exchange parcel identifier	
c55	string	0..1	Reason for failed delivery	
c56	string	0..1	Ground for receipt	

c57	string	0...1	Currency of the amount of payment for goods	
c58	string	0...1	Currency of the amount of value insurance	
c59	string	0...1	Related identifier	
c60	string	0...1	Retention period	
c61	string	0...1	Maximum value of transaction category (0-5) 0 Not classified 1 Acceptance 2 Processing 3 Transport 4 Delivery 5 Delivered	
c63	string	0...1	Sender's country	

## GuestCreateResult

Item data

GuestCreateResult				
c0	string	0...1	Name of background system in the case of EÉRT, BPU: Mail item type for IKR/"IKRL" letter and "IKRCS" parcel	
c1	string	0...1	Mail item identifier	
c2	string	0...1	Base service name	
c4	string	0...1	Mode of delivery	
c6	string	0...1	Amount of payment for goods	
c8	string	0...1	Retention time	
c9	string	0...1	Event description	
c10	string	0...1	Event description category	
c11	string	0...1	Event date	
c12	string	0...1	Event time	
c13	string	0...1	Accepting post office	
c38	string	0...1	Recipient's country identifier	
c39	string	0...1	Recipient's country name	
c43	string	0...1	Event category code	

c49	string	0...1	Sender's country identifier	
c53	string	0...1	Exchange parcel identifier	
c55	string	0...1	Reason for failed delivery	
c56	string	0...1	Ground for receipt	
c57	string	0...1	Currency of the amount of payment for goods	
c59	string	0...1	Related identifier	
c60	string	0...1	Retention period	
c61	string	0...1	Maximum value of transaction category (0-5) 0 Not classified 1 Acceptance 2 Processing 3 Transport 4 Delivery 5 Delivered	
c63	string	0...1	Sender's country	

## HTTPHeader

General header parameters, always mandatory

Parameter Name	Type	Multiplicity	Note/description	Mappings
X-Request-ID	string	1	GUID	
X-Correlation-ID	string	0...1	GUID	

## ErrorResult

Common fault structure, optional.

Parameter Name	Type	Multiplicity	Note/description	Mappings
code	string	0..1	400, 401, 500	
message	string	0..1	400 - Bad request 401 - Unauthorized 500 - Internal server error	

## 7. IKRNYomkovetes\_v2\_APG\_v1 Mock test description

Test cases available to external partners

Calling the service with an existing Product identifier

Return – a fixed completed response

Calling the service with several existing Product identifiers

Return – a fixed completed response about several mail items

Calling the service with a non-existent Product identifier

Return – empty

Acceptable Product identifiers – 1 product identifier can be added to a single call

Identifiers for Mock test:

Identifier	Event description/Event category description
UA000449616US	Collection from sender/ Collection
JJD149020000300000000332	Collection from sender/ Collection Arrival at processing point/ Processing Departure from international processing centre/ Transport Collection of mail item/ Collection Arrival at point of departure/ Processing
CH094935177US	Collection from sender/ Collection Reception of incoming item at office of exchange </i>k:r:C9><i>k:r:C10>Transport</i></i> Arrival at international sorting centre</i>k:r:C9><i>k:r:C10>Processing</i></i> Arrival at International Postal Exchange Centre for processing</i>k:r:C9><i>k:r:C10>Processing</i></i> Forwarding for processing/to delivery post office from IPEC</i>k:r:C9><i>k:r:C10> Transport</i></i> End of customs clearance/ Transport
RL10531000000032	Acceptance completed</i>k:r:C9><i>k:r:C10>Acceptance</i></i> Released for delivery</i>k:r:C9><i>k:r:C10>Delivery</i></i> Successfully delivered</i>k:r:C9><i>k:r:C10>Delivered</i></i>
PN00019954019	Prepared for delivery </i>k:r:C9><i>k:r:C10>Processing</i></i>

	<p>Prepared for delivery &lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Processing&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Your parcel is being delivered by the postman (Expected time of delivery: 8:00-17:00)&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Delivery&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Change of address&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Transport&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Successful delivery registered&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Delivery&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Successfully delivered to the door&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Delivered&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p>
PB2SW00021917	<p>Ready for pick-up at the post office&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Delivery&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Prepared for delivery &lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Processing&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Your parcel is being delivered by the postman (Expected time of delivery: 8:00-17:00)&lt;/i&gt;kr:C9&gt; &lt;i&gt;kr:C10&gt;Delivery&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Ready for pick-up at parcel terminal&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Delivery&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Successfully delivered to the door&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Delivered&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Successful delivery registered&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Delivery&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Acceptance completed&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Acceptance&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>Successfully picked up from parcel terminal&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Delivery&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p> <p>UTALT - Settlement event&lt;/i&gt;kr:C9&gt;&lt;i&gt;kr:C10&gt;Delivery&lt;/i&gt;&lt;/i&gt;kr:C10&gt;</p>

Example responses for Mock test:

/guest

**Non-existent identifier**

Request:

```
"language":"hu",
"ids":"UB1233",
"state":"last"
```

Response:

```
{  
  "trackAndTrace": []  
}
```



response\_1588234704556.json

### Existing identifier

Request:

```
"language": "de",  
"ids": "UA000449616US",  
"state": "last"
```

Response:

```
{  
  "trackAndTrace": [  
    {  
      "c0": "IKRL",  
      "c1": "UA000449616US",  
      "c2": "",  
      "c4": "Zustellung an die Haustür",  
      "c6": null,  
      "c8": null,  
      "c9": "Felvétel a feladótól",  
      "c10": "Annahme",  
      "c11": "20200107",  
      "c12": "15:06:00",  
      "c13": null,  
      "c38": "HU",  
      "c39": "Ungarn",  
    }  
  ]  
}
```

```
"c43": "1",
"c49": "US",
"c53": null,
"c55": null,
"c56": null,
"c57": "HUF",
"c59": "UA000449616US",
"c60": null,
"c61": "4",
"c63": "Vereinigste Staaten von Amerika"
}
]
}
```

Request:

```
"language": "hu",
"ids": "PB2SW00021917",
"state": "last"
```

Response:

```
{
  "trackAndTrace": [
    {
      "c0": "IKRCS",
      "c1": "PB2SW00021917",
      "c2": "Üzleti csomag",
      "c4": "Csomagautomatára kézbesítés",
      "c6": "2200",
      "c8": "5",
      "c9": "UTALT - Elszámolási esemény",
      "c10": "Kézbesítés",
    }
  ]
}
```



```
"c11": "20190607",
"c12": "01:30:59",
"c13": null,
"c38": null,
"c39": null,
"c43": "4",
"c49": null,
"c53": null,
"c54": null,
"c55": null,
"c56": null,
"c57": "HUF",
"c59": null,
"c60": null,
"c61": "4",
"c63": null
}
]
}
```

/registered

**Non-existent identifier**

Request:

```
"language": "hu",
"ids": "UB1233",
"state": "last"
```

Response:

```
{  
  "trackAndTrace": []  
}
```

### Existing identifier

Request:

```
"language":"de",  
"ids":"UA000449616US",  
"state":"last"
```

Response:

```
{  
  "trackAndTrace": [  
    {  
      "c0": "IKRL",  
      "c1": "UA000449616US",  
      "c2": "",  
      "c4": "Zustellung an die Haustür",  
      "c5": null,  
      "c6": null,  
      "c8": null,  
      "c9": "Felvétel a feladótól",  
      "c10": "Annahme",  
      "c11": "20200107",  
      "c12": "15:06:00",  
      "c13": null,  
      "c38": "HU",  
      "c39": "Ungarn",  
      "c41": "700",  
      "c42": null,  
    }  
  ]  
}
```

```
"c43": "1",
"c49": "US",
"c53": null,
"c55": null,
"c56": null,
"c57": "HUF",
"c58": "HUF",
"c59": "UA000449616US",
"c60": null,
"c61": "4",
"c63": "Vereinigste Staaten von Amerika"
}
]
}
```

Request:

```
"language": "hu",
"ids": "PB2SW00021917",
"state": "last"
```

Response:

```
{
  "trackAndTrace": [
    {
      "c0": "IKRCS",
      "c1": "PB2SW00021917",
      "c2": "Üzleti csomag",
      "c4": "Csomagautomatára kézbesítés",
      "c5": "2000",
      "c6": "2200",
    }
  ]
}
```

```
"c8": "5",
"c9": "UTALT - Elszamolasi esemeny",
"c10": "Kézbesítés",
"c11": "20190607",
"c12": "01:30:59",
"c13": null,
"c39": null,
"c41": "800",
"c42": "-",
"c43": "4",
"c49": null,
"c53": null,
"c55": null,
"c56": null,
"c57": "HUF",
"c58": "HUF",
"c59": null,
"c60": null,
"c61": "4",
"c63": ""
}
]
}
```

Request:

```
"language": "hu",
"ids": "PB2SW00021917",
"state": "all"
```

Response:

```
{
  "trackAndTrace": [
    {
      "c0": "IKRCS",
      "c1": "PB2SW00021917",
      "c2": "Üzleti csomag",
      "c4": "Háznál kézbesítés",
      "c5": "2000",
      "c6": "2200",
      "c8": "5",
      "c9": "Küldemény postán átvehető",
      "c10": "Kézbesítés",
      "c11": "20190326",
      "c12": "11:44:42",
      "c13": "Szegedi Logisztikai Üzem",
      "c38": null,
      "c39": null,
      "c41": "800",
      "c42": "S",
      "c43": "4",
      "c49": null,
      "c53": null,
      "c55": null,
      "c56": null,
      "c57": "HUF",
      "c58": "HUF",
      "c59": null,
      "c60": "20190402",
      "c61": "4",
      "c63": ""
    }
  ]
}
```

```
},  
{  
  "c0": "IKRCS",  
  "c1": "PB2SW00021917",  
  "c2": "Üzleti csomag",  
  "c4": "Háznál kézbesítés",  
  "c5": "2000",  
  "c6": "2200",  
  "c8": "5",  
  "c9": "Kézbesítésre előkészítve",  
  "c10": "Feldolgozás",  
  "c11": "20190326",  
  "c12": "11:45:20",  
  "c13": "Szegedi Logisztikai Üzem",  
  "c38": null,  
  "c39": null,  
  "c41": "800",  
  "c42": "S",  
  "c43": "2",  
  "c48": null,  
  "c49": null,  
  "c53": null,  
  "c55": null,  
  "c56": null,  
  "c57": "HUF",  
  "c58": "HUF",  
  "c59": null,  
  "c60": null,  
  "c61": "4",  
  "c63": ""  
},
```

```
{
  "c0": "IKRCS",
  "c1": "PB2SW00021917",
  "c2": "Üzleti csomag",
  "c4": "Háznál kézbesítés",
  "c5": "2000",
  "c6": "2200",
  "c8": "5",
  "c9": "Csomagja a kézbesítőnél van (Várható kézbesítési idő: 8:00-17:00)",
  "c10": "Kézbesítés",
  "c11": "20190326",
  "c12": "11:45:20",
  "c13": "Szegedi Logisztikai Üzem",
  "c38": null,
  "c39": null,
  "c41": "800",
  "c42": "S",
  "c43": "4",
  "c49": null,
  "c53": null,
  "c55": null,
  "c56": null,
  "c57": "HUF",
  "c58": "HUF",
  "c59": null,
  "c60": null,
  "c61": "4",
  "c63": ""
},
{
  "c0": "IKRCS",
```

```
"c1": "PB2SW00021917",
"c2": "Üzleti csomag",
"c4": "Csomagautomatára kézbesítés",
"c5": "2000",
"c6": "2200",
"c8": "5",
"c9": "Csomagautomatában átvehető",
"c10": "Kézbesítés",
"c11": "20190326",
"c12": "11:49:08",
"c13": "Teszt csomagautomata",
"c38": null,
"c39": null,
"c41": "800",
"c42": "S",
"c43": "4",
"c49": null,
"c53": null,
"c55": null,
"c56": null,
"c57": "HUF",
"c58": "HUF",
"c59": null,
"c60": null,
"c61": "4",
"c63": ""
},
{
  "c0": "IKRCS",
  "c1": "PB2SW00021917",
  "c2": "Üzleti csomag",
```



```
"c4": "Háznál kézbesítés",
"c5": "2000",
"c6": "2200",
"c8": "5",
"c9": "Sikeresen kézbesítve háznál",
"c10": "Kézbesítés",
"c11": "20190326",
"c12": "11:51:41",
"c13": null,
"c38": null,
"c39": null,
"c41": null,
"c42": null,
"c43": "4",
"c49": null,
"c53": null,
"c55": null,
"c56": "Címzett",
"c57": "HUF",
"c58": "HUF",
"c59": null,
"c60": null,
"c61": "4",
"c63": ""
},
{
  "c0": "IKRCS",
  "c1": "PB2SW00021917",
  "c2": "Üzleti csomag",
  "c4": "Háznál kézbesítés",
  "c5": "2000",
```

```
"c6": "2200",  
"c8": "5",  
"c9": "Sikeres kézbesítés rögzítése",  
"c10": "Kézbesítés",  
"c11": "20190326",  
"c12": "11:51:41",  
"c13": "Szegedi Logisztikai Üzem",  
"c38": null,  
"c39": null,  
"c40": "0",  
"c41": "800",  
"c42": "S",  
"c43": "4",  
"c49": null,  
"c53": null,  
"c55": null,  
"c56": "Címzett",  
"c57": "HUF",  
"c58": "HUF",  
"c59": null,  
"c60": null,  
"c61": "4",  
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```

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"c12": "18:04:31",
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"c58": "HUF",
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"c63": ""
},
{
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  "c1": "PB2SW00021917",
  "c2": "Üzleti csomag",
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"c42": "-",
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  "c6": "2200",
  "c8": "5",
  "c9": "UTALT - Elszámolási esemény",
  "c10": "Kézbesítés",
  "c11": "20190607",
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"c63": ""
}
]
}
```

## 8. Non-functional properties

### Availability

#### Service period

The MPL Tracking API is available 24 hours a day on 365 days a year.

#### Maintenance Period

The planned maintenance period of the MPL Tracking API is specified in the General Terms and Conditions.

#### Unavailability

If the MPL Tracking API v1 interface is unavailable, then the calling system should be able to handle this situation.

### Improved safety and security

All MPL Tracking API operations are REST web service calls available through https protocol based requests. Basic and OAuth2 authorization can be used when calling service functions.

### Unsupported JSON tags

The MPL Tracking API ignores unsupported JSON tags.