



Financira  
Europska unija  
NextGenerationEU



Ministarstvo  
zdravstva

---

# Development of the System for Monitoring and Preventing Medicine Shortages in Croatia (PPNL)

---

PPNL Services  
for the reporting of medicine stock and trade

Version 2.10

20 January 2026

---

## Content

1	Introduction.....	4
1.1.	Methods of using data in the PPNL system.....	4
2.	Reporting to the PPNL system.....	4
2.1.	Methods of reporting to the PPNL system .....	4
2.2.	Possible ways to send data to the PPNL system.....	4
2.3.	Use cases .....	5
2.4.	Prerequisites for sending data through an application or service .....	6
2.5.	Sending data via PPNL application form or template.....	6
2.6.	Sending data via an additional software (helper tools).....	6
2.7.	Sending data by consuming PPNL service (Machine to Machine).....	7
2.7.1.	Basic information about the service.....	7
2.8.	Service methods and data to run methods.....	7
2.8.1.	Method 1: Ping .....	7
2.8.2.	Response to Method 1: Ping .....	7
2.8.3.	Method 2: SendSupplies.....	7
2.8.4.	Response to Method 2: SendSupplies.....	8
2.8.5.	Method 3: SendTraffic.....	8
2.8.6.	Response to Method 3: SendTraffic .....	9
2.8.7.	Method 4: SendSupplyPlan .....	9
2.8.8.	Response to Method 4: SendSupplyPlan .....	10
2.8.9.	Method 5: SendNumberOfUndeliveredMedicine .....	10
2.8.10.	Response to Method 5: SendNumberOfUndeliveredMedicine .....	11
2.8.11.	Method 6: SendWholesaleMedicineAvailability.....	11
2.8.12.	Response to Method 6: SendWholesaleMedicineAvailability .....	12
2.8.13.	Method 7: CheckMedicinePackageAvailability .....	12
2.8.14.	Response to Method 7: CheckMedicinePackageAvailability .....	13
2.8.15.	Method 8: SendSuppliesBulk.....	13
2.8.16.	Response to Method 8: SendSuppliesBulk.....	14
2.8.17.	Method 9: SendTrafficBulk.....	14
2.8.18.	Response to Method 9: SendTrafficBulk.....	16
2.8.19.	Method 10: SendSupplyPlanBulk .....	16
2.8.20.	Response to Method 10: SendSupplyPlanBulk.....	17
2.9.	Postman collection with examples.....	18
2	Additional codes.....	19



## 1 INTRODUCTION

This document serves as a detailed guide for understanding and implementing the integration of the web service of the System for Monitoring and Preventing Medicine Shortages (PPNL) with external systems. The document is intended for **reporting entities of the PPNL system** (hereinafter: reporting entities), i.e. key actors in the distribution chain of medicines in the Republic of Croatia (**marketing authorisation holders, wholesales, pharmacies, pharmacy depots, hospital pharmacies and specialized retail medicine stores**). The aim of the document is to provide reporting entities with the necessary information to achieve reliable, efficient and timely data exchange with the PPNL system. As part of the project, a support email address has been established: [info-ppnl@miz.gov.hr](mailto:info-ppnl@miz.gov.hr).

### 1.1. METHODS OF USING DATA IN THE PPNL SYSTEM

Data collected through the PPNL system are used to detect disruptions in the supply of medicines, i.e. in the prediction, prevention and management of medicine shortages (at the level of medicine packaging). Through the analytical and reporting modules of the PPNL system, **users of the system** (Ministry of Health – MIZ, and Agency for Medicinal Products and Medical Devices - HALMED) have an insight into the current consumption of medicines and a forecast of future consumption based on data from the previous period. The system also analyses the sufficiency of existing and secured medicine stock taking into account the forecasted consumption in the forthcoming period, and warns system users about the increased likelihood of shortages. The PPNL system collects data on medicine stock and trade on a weekly basis, to provide current forecasts regarding shortages and data on seasonality in the consumption of medicines. Finally, the PPNL system provides insight into the spatial distribution of medicine stock (at county or regional level).

## 2. REPORTING TO THE PPNL SYSTEM

### 2.1. METHODS OF REPORTING TO THE PPNL SYSTEM

The PPNL system offers three possible ways of reporting:

1. Through PPNL application (using forms or importing .csv files)
2. By implementation of the PPNL service (*Machine to Machine*)
3. By installing a helper tool within the organizational environment to which information is submitted in the form of a .csv file and the tool itself forwards the information to the necessary locations.

### 2.2. POSSIBLE WAYS TO SEND DATA TO THE PPNL SYSTEM

Reporting entities send data **defined by the Ministry of Health through the Ordinance on the Type, Method and Dynamics of Medicine Data Delivery**<sup>1</sup> to the PPNL system in the following way:

**Sending original data** - data is sent in individual (original) form at the medicine packaging level and is available to the defined working group of PPNL system users in the roles of MIZ and HALMED.

---

<sup>1</sup> <https://narodne-novine.nn.hr/eli/sluzbeni/2025/150/pdf>

## 2.3. USE CASES

### 1. Reporting by wholesales on medicine stock

Wholesalers submit stock data for each individual medicine packaging once a week (on the first working day of the week).

### 2. Reporting by wholesales on delivered and withdrawn quantities of medicines

Wholesales submit data for each individual medicine packaging once a week on:

- total quantities delivered in the previous week (which include quantities delivered to pharmacies and other entities in the Republic of Croatia, and outside the Republic of Croatia – quantities delivered to other wholesales in the Republic of Croatia should be excluded),
- total quantities withdrawn from stock in the previous week (due to quality testing, returns to the manufacturer, expiration date, etc.).

### 3. Reporting by pharmacies on medicine stock

Pharmacies, pharmacy depots, hospital pharmacies and specialized retail medicine stores submit stock data for each individual medicine packaging once a week (on the first working day of the week).

### 4. Reporting by pharmacies on medicine trade

Pharmacies, pharmacy depots, hospital pharmacies and specialized retail medicine stores report once a week (on the first working day of the week) for each medicine packaging on:

- the quantity of medicine dispensed to patients in the previous week,
- the quantity of valid medicine returned to wholesales in the previous week,
- the remaining quantity of medicine that was removed from stock (e.g. due to expiration date, etc.) in the previous week

### 5. Supply plans of marketing authorisation holders

Marketing authorisation holders are obliged to submit quarterly plans for the quantities secured for the Croatian market for each medicine packaging. Marketing authorisation holders shall report on the plan for each of the following two quarters individually no later than 15 days from the last day of the quarter.

### 6. Updating of marketing authorisation holder supply plans

In the event of a change to previously reported supply plans, marketing authorization holders are required to update the already entered data on the plans as soon as possible.

### 7. Reporting on impossibility to dispense medicine in pharmacies

Pharmacies, pharmacy depots, hospital pharmacies and specialized retail medicine stores are required to report daily on the number of cases in which it was not possible to dispense a medicine packaging.

### 8. Wholesale response to stock query

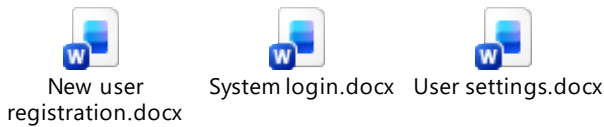
Wholesales are required to respond to the PPNL system's query as to whether they have the requested quantity of a medicine packaging in stock. In the event of a negative response, they must also send the exact quantity of medicine in stock and report on the quantity of medicine that is arriving in the defined period. When reviewing user settings within the PPNL system, it is possible to set additional reporting settings. Among the settings, it is necessary to set the address

of the service that the PPNL system can call for the purpose of querying active stock of a particular medicine packaging (see the *CheckMedicinePackageAvailability* and *SendWholesaleMedicineAvailability* methods that need to be developed on the wholesale service side so that the systems can communicate directly).

## 2.4. PREREQUISITES FOR SENDING DATA THROUGH AN APPLICATION OR SERVICE

In order for organizations that are obliged to report to the PPNL system to acquire the prerequisites for the consumption of services, they need to go through the process of user registration through the PPNL application.

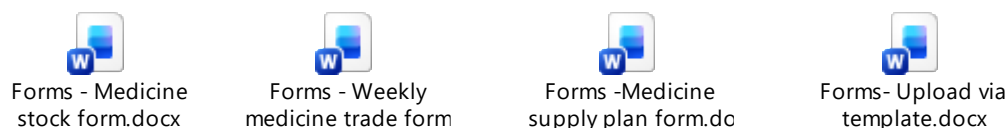
Please find attached the process of registering users to the PPNL system:



After the registration request, users (MIZ and HALMED) will review the attached evidence and approve the organization's representation. An approved registered user can review the user settings for service consumption - the assigned SenderID. If the reporting entity represents multiple organizations, it is necessary to register multiple accounts (email addresses) for each role they perform in the system (wholesale, marketing authorization holder, public pharmacy, hospital pharmacy) so that when reporting, it is known for which organization the data is being sent. The register of organizations may grow over time, i.e. reporting entity can fill out a form for registering a new organization that will be approved by users (MIZ and HALMED).

## 2.5. SENDING DATA VIA PPNL APPLICATION FORM OR TEMPLATE

Attached are test scenarios that, step by step with the images of the PPNL system (screenshots), guide reporting entities through scenarios related to data reporting.



The transmission of data via the form is primarily intended for smaller reporting entities in the distribution chain who do not have necessary IT support and do not have large amounts of data.

Uploading through templates can be used by all reporting entities who do not plan to develop their services and who have large amounts of data for reporting.

## 2.6. SENDING DATA VIA AN ADDITIONAL SOFTWARE (HELPER TOOLS)

Reporting entities that choose not to develop Machine to Machine (M2M) service can send data through .csv files and install helper tools that will send data to the required locations at specified time intervals (once a day, weekly, or quarterly). Attached are instructions for the use of tools, installation instructions and source code of helper tools in order for reporting entities to be familiar with reporting models and data pre-processing in the reporting process. The source code at the same time allows reporting entities to upgrade their own business systems for M2M integration with the PPNL system.



send-tool-v2.zip

## 2.7. SENDING DATA BY CONSUMING PPNL SERVICE (MACHINE TO MACHINE)

### 2.7.1. BASIC INFORMATION ABOUT THE SERVICE

Below is the technical specification related to the available methods of the web service, as well as the technical specification of the response of the web service.

- Address of the test API Service: <https://ppnltest.miz.hr/api/>
- Address of the preproduction API service: <https://ppnlstaging.miz.hr/api/>
- Address of the production API service: <https://ppnl.miz.hr/api/>

## 2.8. SERVICE METHODS AND DATA TO RUN METHODS

### 2.8.1. METHOD 1: PING

**Objective:** Service availability check

**Authentication:** Basic authentication (username + password) of an existing registered PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** GET

**Call:** <https://ppnltest.miz.hr/api/Transaction/Ping>

### 2.8.2. RESPONSE TO METHOD 1: PING

CurrentTime = 25.10.2024 15:20:23

### 2.8.3. METHOD 2: SENDSUPPLIES

**Objective:** Sending data on the organisation's medicine packaging stock

**Authentication:** Basic authentication (username + password) of an existing registered PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** POST

**Call:** <https://ppnltest.miz.hr/api/Transaction/SendSupplies>

Parameter	Type	Obligation	Comment
JSON object	Complex type	YES	Complex data type described in a call example below

**Example of call:**

```
{
  "SenderId": "37046156-7a68-42fd-8ced-cef3ac2075b6", //UserID from PPNL
  application - required
  "MedicineIndicator": "05099151015075", //GTIN of medicine packaging or
  PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
  - required
}
```

```

    "MedicineName": "Brufen 400 mg filmom obložene tablete", //Medicine name from
    sending system - required
    "Amount": 480, //amount of sending medicine supplies (stock) - required
    "ExpirationDate": null, // optional information
    "LotNumber": null, // optional information
    "WholesalePrice": null, // optional information - wholesale price excluding
    VAT
    "RetailPrice": null, // optional information - retail price excluding VAT
    "DataProcessingType": 20 //import supplies for organization (20 - wholesale
    supplies, 40 - public pharmacy supplies, 50 - hospital pharmacy supplies, 55 -
    hospital pharmacy supplies by units of presentation, 60 - HZJZ vaccine supplies)
    - full list available on PPNL application or in documentation - required
  }

```

#### 2.8.4. RESPONSE TO METHOD 2: SENDSUPPLIES

```

{
  "ContentType": null,
  "SerializerSettings": null,
  "StatusCode": null,
  "Value": {
    "StatusCode": 200,
    "Message": "Successfully recorded medicine supplies."
  }
}

```

#### 2.8.5. METHOD 3: SENDTRAFFIC

**Objective:** Sending data on medicine packaging trade/exit from stock

**Authentication:** Basic authentication (username + password) of an existing PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** POST

**Call:** <https://ppnltest.miz.hr/api/Transaction/SendTraffic>

Parameter	Type	Obligation	Comment
JSON object	Complex type	YES	Complex data type described in a call example below

**Example of call:**

```

{
  "SenderId": "37046156-7a68-42fd-8ced-cef3ac2075b6", //UserID from PPNL
  application - required
  "MedicineIndicator": "05099151015075", //GTIN of medicine packaging or
  PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
  - required
  "MedicineName": "Brufen 400 mg filmom obložene tablete", //Medicine name from
  sending system - required
}

```

```

    "Amount":200, //amount of medicine traffic for the reporting period (DateFrom
- DateTo) - required
    "ExpirationDate":null, // optional information
    "LotNumber":null, // optional information
    "WholesalePrice":null, // optional information - wholesale price excluding VAT
    "RetailPrice":null, // optional information - retail price excluding VAT
    "DataProcessingType":22, //import traffic for organization (22 - wholesale
delivered quantity, 26 - wholesale withdrawn quantity, 42 - public pharmacy
medicine dispensing to patients, 45 - other public pharmacy traffic, 47 - public
pharmacy return of valid medicine to wholesales, 52 - hospital pharmacy medicine
dispensing to patients, 56 - hospital pharmacy medicine dispensing by units of
presentation, 57 - other hospital pharmacy traffic, 59 - hospital pharmacy return
of valid medicine to wholesale, 61 - HZJZ vaccine traffic) - full list available
on PPNL application or in documentation - required
    "DateFrom":"2024-01-01", //reporting week from - format yyyy-mm-dd
    "DateTo":"2024-01-05" // reporting week to - format yyyy-mm-dd
}

```

### 2.8.6. RESPONSE TO METHOD 3: SENDTRAFIC

```

{
  "ContentType": null,
  "SerializerSettings": null,
  "StatusCode": null,
  "Value": {
    "StatusCode": 200,
    "Message": "Successfully recorded medicine traffic."
  }
}

```

### 2.8.7. METHOD 4: SENDSUPPLYPLAN

**Objective:** Entry of the MAHs' supply plans

**Authentication:** Basic authentication (username + password) of an existing PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** POST

**Call:** <https://ppnltest.miz.hr/api/Transaction/SendSupplyPlan>

Parameter	Type	Obligation	Comment
JSON object	Complex type	YES	Complex data type described in a call example below

**Example of call:**

```

{

```

```

    "SenderId":"37046156-7a68-42fd-8ced-cef3ac2075b6", //UserID from PPNL
application - required
    "MedicineIdentificator": "05099151015075", //GTIN of medicine packaging or
PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
- required
    "MedicineName":"Brufen 400 mg filmom obložene tablete", //Medicine name from
sending system - required
    "Amount":200, //planned quantity of medicine for the reporting period
(DateFrom - DateTo) - required
    "ExpirationDate":null, // optional information
    "LotNumber":null, // optional information
    "WholesalePrice":null, // optional information - wholesale price excluding VAT
    "RetailPrice":null, // optional information - retail price excluding VAT

    "DataProcessingType":30, //Send supply plan for organization (30 - marketing
authorization holder quarter plans, 32 - marketing authorization holder quarter
plans update) - full list available on PPNL application or in documentation -
required

    "DateFrom":"2024-01-01", //reporting time from - format yyyy-mm-dd
    "DateTo":"2024-03-31" // reporting time to - format yyyy-mm-dd
}

```

#### 2.8.8. RESPONSE TO METHOD 4: SENDSUPPLYPLAN

```

{
  "ContentType": null,
  "SerializerSettings": null,
  "StatusCode": null,
  "Value": {
    "StatusCode": 200,
    "Message": "Successfully recorded supply plan."
  }
}

```

#### 2.8.9. METHOD 5: SENDNUMBEROFUNDELIVEREDMEDICINE

**Objective:** Entry of the requested quantity of medicine packaging that could not be issued in a public pharmacy or hospital pharmacy. Once a day, the pharmacy reports how many times a particular medicine packaging was requested and could not be issued.

**Authentication:** Basic authentication (username + password) of an existing PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** POST

**Call:** <https://ppnltest.miz.hr/api/Transaction/SendNumberOfUndeliveredMedicine>

Parameter	Type	Obligation	Comment
JSON object	Complex type	YES	Complex data type described in a call example below

**Example of call:**

```
{
  "SenderId": "aa164067-a84f-4549-9204-3cc0e8805c0d", //UserID from PPNL
  application - required
  "MedicineIdentificator": "05099151015075", //GTIN of medicine packaging or
  PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
  - required
  "MedicineName": "Brufen 400 mg filmom obložene tablete", //Medicine name from
  sending system - required
  "Amount": 20, //amount of undelivered medicine - required
  "DataProcessingType": 25, //send number of undelivered medicine for
  organization (44 - public pharmacy undelivered medicine, 54 - hospital pharmacy
  undelivered medicine) - required
  "TransactionDate": "2025-01-22" //if needed transaction date doesn't have to be
  today - for batch purpose - optional
}
```

**2.8.10. RESPONSE TO METHOD 5: SENDNUMBEROFUNDELIVEREDMEDICINE**

```
{
  "ContentType": null,
  "SerializerSettings": null,
  "StatusCode": null,
  "Value": {
    "StatusCode": 200,
    "Message": "Successfully recorded quantity of undelivered medicine."
  }
}
```

**2.8.11. METHOD 6: SENDWHOLESALEMEDICINEAVAILABILITY**

**Objective:** Entering the wholesale's response to a query about the availability of a medicine packaging. Every time a wholesale is asked whether it has a certain quantity of a medicine packaging available and the answer is that it cannot deliver that quantity, the wholesale sends a record of the stock status of the requested medicine packaging and the quantity of the same in arrival.

**Authentication:** Basic authentication (username + password) of an existing PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** POST

**Call:** <https://ppnltest.miz.hr/api/Transaction/SendWholesaleMedicineAvailability>

Parameter	Type	Obligation	Comment
JSON object	Complex type	YES	Complex data type described in a call example below

**Example of call:**

```
{
  "SenderId": "aa164067-a84f-4549-9204-3cc0e8805c0d", //UserID from PPNL
  application - required
```

```

    "MedicineIdentificator": "05099151015075", //GTIN of medicine packaging or
    PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
    - required
    "RequestedQuantity":200, //amount of requested medicine from the wholesale -
    required
    "AvailableQuantity":100, //amount of medicine on stock - required

    "IncomingQuantity":500, //amount of incoming medicine - required
    "ResponseText":"We are currently out of stock, but 500 units are expected
    soon."//amount of medicines incoming by plans
}

```

### 2.8.12. RESPONSE TO METHOD 6: SENDWHOLESALEMEDICINEAVAILABILITY

```

{
  "ContentType": null,
  "SerializerSettings": null,
  "StatusCode": null,
  "Value":{
    "StatusCode": 200,
    "Message": "Successfully recorded the required amount of medicine."
  }
}

```

### 2.8.13. METHOD 7: CHECKMEDICINEPACKAGEAVAILABILITY

**Objective:** The PPNL system expects the wholesale to have a developed service on its side to check the availability of medicines. When the PPNL system detects a supply problem for a medicine packaging, it should be possible to check the quantity of this medicine packaging available for a future period.

An example of a call will be developed in the PPNL system and should also work on the wholesale side.

By editing the user settings, it will be possible to set the address, username and password that will be called by the PPNL system.

**Authentication:** Basic authentication (username + password) of an existing PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** POST

**Helper example to be developed on the wholesale side:**

<https://ppnltest.miz.hr/api/Transaction/CheckMedicinePackageAvailability>

Parameter	Type	Obligation	Comment
JSON object	Complex type	YES	Complex data type described in a call example below

**Example of call:**

```
{
```

```

    "MedicineIdentifier": "05099151015075", //GTIN of medicine packaging or
    PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
    - required
    "DateFrom": "2024-01-01", //reporting time from - format yyyy-mm-dd
    "DateTo": "2024-01-05" // reporting time to - format yyyy-mm-dd
}

```

#### 2.8.14. RESPONSE TO METHOD 7: CHECKMEDICINEPACKAGEAVAILABILITY

```

{
  "MedicineIdentifier": "05099151015075",
  "Amount": 4000,
  "RequestedDateFrom": "2024-01-01",
  "RequestedDateTo": "2024-01-05"
}

```

#### 2.8.15. METOD 8: SENDSUPPLIESBULK

**Objective:** Entering an organization's medicine packaging stock for multiple items

**Authentication:** Basic authentication (username + password) of an existing PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** POST

**Poziv:** <https://ppnltest.miz.hr/api/Transaction/SendSuppliesBulk>

Parameter	Type	Obligation	Comment
JSON object	Complex type	YES	Complex data type described in a call example below

**Primjer poziva:**

```

[
  {
    "SenderId": "04e5ec06-1414-488b-953b-1b75adfac68b", //UserID from PPNL
    application - required
    "MedicineIdentifier": "3850343023924", //GTIN of medicine packaging or
    PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
    - required
    "MedicineName": "AMOKSICILIN tbl film obl.16x 500mg", //Medicine name from
    sending system - required
    "Amount": "661", //amount of sending medicine supplies - required
    "ExpirationDate": "2025-02-28", // optional information
    "LotNumber": "0000541033", // optional information
    "WholesalePrice": "1.51", // optional information
    "RetailPrice": "1.51", // optional information
    "DataProcessingType": "20" //import supplies for organization (20 - wholesale
    supplies, 40 - public pharmacy supplies, 50 - hospital pharmacy supplies, 55 -

```

```

hospital pharmacy supplies by units of presentation, 60 - HZJZ vaccine supplies)
- full list available on PPNL application or in documentation - required
},
{
  "SenderId":"04e5ec06-1414-488b-953b-1b75adfac68b", //UserID from PPNL
application - required
  "MedicineIdentificator": "3850114209496", //GTIN of medicine packaging or
PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
- required
  "MedicineName":"PLIVIT C 1000 PLUS vreć a20", //Medicine name from sending
system - required
  "Amount":"11.000", //amount of sending medicine supplies - required
  "ExpirationDate": "2025-07-31", // optional information
  "LotNumber":"0000G06485", // optional information
  "WholesalePrice":"526", // optional information
  "RetailPrice":"526", // optional information
  "DataProcessingType":"20" //import supplies for organization (20 - wholesale
supplies, 40 - public pharmacy supplies, 50 - hospital pharmacy supplies, 55 -
hospital pharmacy supplies by units of presentation, 60 - HZJZ vaccine supplies)
- full list available on PPNL application or in documentation - required
}
]

```

#### 2.8.16. RESPONSE TO METHOD 8: SENDSUPPLIESBULK

```

{
  "ContentType": null,
  "SerializerSettings": null,
  "StatusCode": null,
  "Value": {
    "StatusCode": 200,
    "Message": "Successfully recorded medicine supplies."
  }
}

```

#### 2.8.17. METHOD 9: SENDTRAFFICBULK

**Objective:** Entering an organization's medicine packaging trade/exit for multiple items

**Authentication:** Basic authentication (username + password) of an existing PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** POST

**Poziv:** <https://ppnltest.miz.hr/api/Transaction/SendTrafficBulk>

Parameter	Type	Obligation	Comment
-----------	------	------------	---------

JSON object	Complex type	YES	Complex data type described in a call example below
-------------	--------------	-----	---

**Primjer poziva:**

```
[{
  "SenderId":"04e5ec06-1414-488b-953b-1b75adfac68b", //UserID from PPNL
application - required
  "MedicineIdentifier": "05099151015075", //GTIN of medicine packaging or
PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
- required
  "MedicineName":"Brufen 400 mg filmom obložene tablete", //Medicine name from
sending system - required
  "Amount":200, //amount of medicine traffic for the reporting period (DateFrom
- DateTo) - required
  "ExpirationDate":null, // optional information
  "LotNumber":null, // optional information
  "WholesalePrice":"526", // optional information
  "RetailPrice":"526", // optional information
  "DataProcessingType":22, //import traffic for organization (22 - wholesale
delivered quantity, 26 - wholesale withdrawn quantity, 42 - public pharmacy
medicine dispensing to patients, 45 - other public pharmacy traffic, 47 - public
pharmacy return of valid medicine to wholesales, 52 - hospital pharmacy medicine
dispensing to patients, 56 - hospital pharmacy medicine dispensing by units of
presentation, 57 - other hospital pharmacy traffic, 59 - hospital pharmacy return
of valid medicine to wholesale, 61 - HZJZ vaccine traffic) - full list available
on PPNL application or in documentation - required
  "DateFrom":"2024-01-01", //reporting week from - format yyyy-mm-dd
  "DateTo":"2024-01-05" // reporting week to - format yyyy-mm-dd
},
{
  "SenderId":"04e5ec06-1414-488b-953b-1b75adfac68b", //UserID from PPNL
application - required
  "MedicineIdentifier": "05099151015075", //GTIN of medicine packaging or
PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
- required
  "MedicineName":"Brufen 400 mg filmom obložene tablete", //Medicine name from
sending system - required
  "Amount":500, //amount of medicine traffic for the reporting period (DateFrom
- DateTo) - required
  "ExpirationDate":null, // optional information
  "LotNumber":null, // optional information
  "WholesalePrice":"526", // optional information
  "RetailPrice":"526", // optional information
  "DataProcessingType":22, //import traffic for organization (22 - wholesale
delivered quantity, 26 - wholesale withdrawn quantity, 42 - public pharmacy
medicine dispensing to patients, 45 - other public pharmacy traffic, 47 - public
pharmacy return of valid medicine to wholesales, 52 - hospital pharmacy medicine
dispensing to patients, 56 - hospital pharmacy medicine dispensing by units of
presentation, 57 - other hospital pharmacy traffic, 59 - hospital pharmacy return
of valid medicine to wholesale, 61 - HZJZ vaccine traffic) - full list available
on PPNL application or in documentation - required
  "DateFrom":"2024-01-02", //reporting week from - format yyyy-mm-dd
```

```
"DateTo":"2024-01-06" // reporting week to - format yyyy-mm-dd
}]
```

### 2.8.18. RESPONSE TO METHOD 9: SENDTRAFFICBULK

```
{
  "ContentType": null,
  "SerializerSettings": null,
  "StatusCode": null,
  "Value": {
    "StatusCode": 200,
    "Message": " Successfully recorded medicine traffic."
  }
}
```

### 2.8.19. METHOD 10: SENDSUPPLYPLANBULK

**Objective:** Entering an organization's medicine packaging supply plans for multiple items

**Authentication:** Basic authentication (username + password) of an existing PPNL user. The service returns status code 401 if the user is not sent or does not exist.

**HTTP method:** POST

**Poziv:** <https://ppnltest.miz.hr/api/Transaction/SendSupplyPlanBulk>

Parametar	Tip	Obaveznost	Komentar
JSON objekt	Kompleksan tip	DA	Kompleksan tip podataka raspisan u primjeru poziva

**Primjer poziva:**

```
[
  {
    "SenderId":"04e5ec06-1414-488b-953b-1b75adfac68b", //UserID from PPNL
    application - required
    "MedicineIndicator": "05099151015075", //GTIN of medicine packaging or
    PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
    - required
    "MedicineName":"Brufen 400 mg filmom obložene tablete", //Medicine name from
    sending system - required
    "Amount":200, //planned quantity of medicine for the reporting period
    (DateFrom - DateTo) - required
    "ExpirationDate":null, // optional information
    "LotNumber":null, // optional information
    "WholesalePrice":"526", // optional information
    "RetailPrice":"526", // optional information
  }
]
```

```

    "DataProcessingType":30, //Send supply plan for organization (30 - marketing
authorization holder quarter plans, 32 - marketing authorization holder quarter
plans update) - full list available on PPNL application or in documentation -
required
    "DateFrom":"2024-01-01", //reporting time from - format yyyy-mm-dd
    "DateTo":"2024-03-31" // reporting time to - format yyyy-mm-dd
},
{
    "SenderId":"04e5ec06-1414-488b-953b-1b75adfac68b", //UserID from PPNL
application - required
    "MedicineIndicator": "05099151015075", //GTIN of medicine packaging or
PMAN (Packaging Marketing Authorization Number) from eLijekovi system (ISO IDMP)
- required
    "MedicineName":"Brufen 400 mg filmom obložene tablete", //Medicine name from
sending system - required
    "Amount":260, //planned quantity of medicine for the reporting period
(DateFrom - DateTo) - required
    "ExpirationDate":null, // optional information
    "LotNumber":null, // optional information
    "WholesalePrice":"526", // optional information
    "RetailPrice":"526", // optional information

    "DataProcessingType":30, //Send supply plan for organization (30 - marketing
authorization holder quarter plans, 32 - marketing authorization holder quarter
plans update) - full list available on PPNL application or in documentation -
required
    "DateFrom":"2024-01-01", //reporting time from - format yyyy-mm-dd
    "DateTo":"2024-03-31" // reporting time to - format yyyy-mm-dd
}
]

```

#### 2.8.20. RESPONSE TO METHOD 10: SENDSUPPLYPLANBULK

```

{
    "ContentType": null,
    "SerializerSettings": null,
    "StatusCode": null,
    "Value": {
        "StatusCode": 200,
        "Message": " Successfully recorded medicine supply plan."
    }
}

```

## 2.9. POSTMAN COLLECTION WITH EXAMPLES



PPNL-ReportingAPI.  
postman\_collection.

## 2 ADDITIONAL CODES

### Types of transactions (DataProcessingType)

Code	Description
20	Wholesale stock
22	Wholesale quantities delivered
26	Wholesale quantities withdrawn
30	Marketing authorization holder (MAH) supply plans
32	Marketing authorization holder supply plan update
40	Public pharmacy supplies (including pharmacies, specialized medicine retail stores and pharmacy depots)
42	Quantities dispensed to patients by public pharmacies (including pharmacies, specialized retail medicine stores and pharmacy depots)
44	Requested quantities of medicine that could not be dispensed in public pharmacies (including pharmacies, specialized retail stores and pharmacy depots)
45	Other - public pharmacy (everything that was removed from stock and does not belong to any of the other transactions)
47	Return of valid medicine to wholesales - public pharmacies
50	Hospital pharmacy supplies
52	Quantities dispensed to patients - hospital pharmacies
54	Requested quantities of medicine that could not be dispensed in hospital pharmacies
55	Stock by units of presentation for hospital pharmacy
56	Quantities dispensed to patients by units of presentation for hospital pharmacies
57	Other - hospital pharmacy (everything that was removed from stock and does not belong to any of the other transactions)
59	Return of valid medicine to wholesales - hospital pharmacies
60	Vaccine stock - Croatian Institute of Public Health
61	Vaccine trade - Croatian Institute of Public Health

### Service response types

Code	Explanation
200	Success - successfully completed action
400	Bad request – data or validation issue
401	Unauthorized - unauthorized user
500	Internal server error - error in processing the request