

الجمهورية اللبنانية
وزارة الصحة العامة



Ministry of Public Health

National Barcode System for Pharmaceuticals

Get Pharmacies Movements API Guide



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1. Introduction

The MediTrack API ensures the communication between the **National Barcode System for Pharmaceuticals** application and the other's applications. The API is a REST service that uses **Token Based Authentication** in order to authenticate the request. Token-based authentication is a process where the client application first sends a request to Authentication server with a valid credential. The Authentication server sends an Access token to the client as a response. This token contains enough data to identify a particular user and it has an expiry time. The client application then uses the token to access the restricted resources in the next requests until the token is valid. If the Access token is expired, then the client application can request for a new access token.

2. Service Methods

We are using a API service with the following methods:

1.1 Token Method: Generate a token using credentials

1.1.1 URL Pattern

<https://{BaseUrl}/token>

1.1.2 Method

- POST

1.1.3 Parameters

The method takes 3 parameters:

- 1- **grant_type**: "password"
- 2- **Username**: (**String**) username
- 3- **Password**: (**String**) password

1.1.4 Reply Back

Returns back a token information in the following JSON format:

```
{  
  access_token: "_Zf1GQ4BWNasW6EXjNyM8cxE6PjBb0cff3qbYZr-ta11Cn049NcGpsLnP3jWnJ56a",  
  token_type: "bearer",  
  expires_in: 86399  
}
```

Field Name	Type
access_token	String
token_type	String
expires_in	Int32

Note: the received **Token** should be passed in HTTP message headers for each call.

1.2 Physicians Method: Get all physicians list available at MOPH

1.2.1 URL Pattern

<https://{BaseUrl}/api/MOH/Physicians>

1.2.2 Method

- POST

1.2.3 Reply Back

Returns back a list of physicians in the following JSON format:

```
{"physicianName":null,"physicianOrderNumber":null,"specialty":null}
```

Field Name	Type
PhysicianName	Varchar(200)
PhysicianOrderNumber	Varchar(20)
Specialty	Varchar(100)

1.3 GetMovementDetailReception Method: Get pharmacies detailed receptions/returns movements

1.3.1 URL Pattern

<https://{BaseUrl}/api/MOH/GetMovementDetailReception>

1.3.2 Method

- POST

1.3.3 Parameters

The method takes JSON object as parameter:

```
{  
  "fromDate": "0001-01-01T00:00:00",  
  "toDate": "0001-01-01T00:00:00",  
}
```

- 1- **fromDate:** ([DateTime](#))
- 2- **toDate:** ([DateTime](#))

1.3.4 Reply Back

Returns back a list of movements in the following JSON format:

```
{"sequenceDescription":null,"mvtDate":"0001-01-01T00:00:00","confirmationDate":null,"transactionCode":0,"transactionType":null,"mvtReference":null,"source":null,"destination":null,"medicationCode":null,"medicationName":null,"lotNumber":null,"expiryDate":null,"barcode":null,"SerialNumber":null,"quantity":0,"packingCode":null }
```

Field Name	Type	Notes
SequenceDescription	Varchar(40)	
MvtDate	DateTime	
ConfirmationDate	DateTime	

transactionCode	Integer	1 (IN), 2 (OUT)
transactionType	Varchar(40)	
mvtReference	Varchar(50)	
Source	Varchar(200)	
destination	Varchar(200)	
medicationCode	Varchar(20)	
medicationName	Varchar(200)	
lotNumber	Varchar(50)	
expiryDate	DateTime	
Barcode	Varchar(100)	
SerialNumber	Varchar(100)	
Quantity	Integer	
packingCode	Varchar(50)	

1.4 GetMovementDetailSales Method: Get pharmacies detailed sales/returns movements

1.4.1 URL Pattern

<https://{BaseUrl}/api/MOH/GetMovementDetailSales>

1.4.2 Method

- POST

1.4.3 Parameters

The method takes JSON object as parameter:

```
{  
  "fromDate": "0001-01-01T00:00:00",  
  "toDate": "0001-01-01T00:00:00",  
}
```

- 1- **fromDate:** (**DateTime**)
- 2- **toDate:** (**DateTime**)

1.4.4 Reply Back

Returns back a list of movements in the following JSON format:

```
{"sequenceDescription":null,"mvtDate":"0001-01-01T00:00:00","confirmationDate":null,"transactionCode":0,"transactionType":null,"mvtReference":null,"medicationCode":null,"medicationName":null,"lotNumber":null,"expiryDate":null,"barcode":null,"SerialNumber":null,"quantity":0,"unit":0,"packingCode":null,"pharmacy":null,"prescriptionNumber":null,"physicianName":null,"patientId":null,"patientName":null}
```

Field Name	Type	Notes
SequenceDescription	Varchar(40)	
MvtDate	DateTime	
ConfirmationDate	DateTime	
transactionCode	Integer	1 (IN), 2 (OUT)
transactionType	Varchar(40)	
mvtReference	Varchar(50)	

medicationCode	Varchar(20)	
medicationName	Varchar(200)	
lotNumber	Varchar(50)	
expiryDate	DateTime	
Barcode	Varchar(100)	
SerialNumber	Varchar(100)	
Quantity	Integer	
Unit	Integer	
packingCode	Varchar(50)	
Pharmacy	Varchar(200)	
prescriptionNumber	Varchar(30)	
physicianName	Varchar(100)	
patientName	Varchar(100)	

1.5 GetMovementDetailAdjustment Method: Get pharmacies detailed adjustment movements

1.5.1 URL Pattern

<https://{BaseUrl}/api/MOH/GetMovementDetailAdjustment>

1.5.2 Method

- POST

1.5.3 Parameters

The method takes JSON object as parameter:

```
{  
  "fromDate": "0001-01-01T00:00:00",  
  "toDate": "0001-01-01T00:00:00",  
}
```

- 1- **fromDate:** ([DateTime](#))
- 2- **toDate:** ([DateTime](#))

1.5.4 Reply Back

Returns back a list of movements in the following JSON format:

```
{"sequenceDescription":null,"mvtDate":"0001-01-01T00:00:00","confirmationDate":null,"transactionCode":0,"transactionType":null,"mvtReference":null,"source":null,"medicationCode":null,"medicationName":null,"lotNumber":null,"expiryDate":null,"barcode":null,"SerialNumber":null,"quantity":0,"unit":0,"packingCode":null}
```

Field Name	Type	Notes
SequenceDescription	Varchar(40)	
MvtDate	DateTime	
ConfirmationDate	DateTime	
transactionCode	Integer	1 (IN), 2 (OUT)
transactionType	Varchar(40)	
mvtReference	Varchar(50)	
source	Varchar(200)	
medicationCode	Varchar(20)	

medicationName	Varchar(200)	
lotNumber	Varchar(50)	
expiryDate	DateTime	
barcode	Varchar(100)	
SerialNumber	Varchar(100)	
quantity	Integer	
Unit	Integer	
packingCode	Varchar(50)	

1.6 GetAvailableQuantityByPharmacy Method: Get available quantity for pharmacy

1.6.1 URL Pattern

<https://{BaseUrl}/api/MOH/GetAvailableQuantityByPharmacy>

1.6.2 Method

- POST

1.6.3 Parameters

The method takes JSON object as parameter: { "MOHCode": "MOH Medication Code" }

- **MOHCode:** (**String**) **MOH Medication Code** (keep it null or empty to get the list of all medications)

1.6.4 Reply Back

Returns back a list of medications in the following JSON format:

```
{  
  "MOPHCode": "10103",  
  "Name": "TRAVOCORT 20g",  
  "Barcode": "]D201057021910244631722043010YY02L00",  
  "ExpiryDate": "2022-04-30T00:00:00",  
  "LotNumber": "YY02L00",  
  "SerialValue": "",  
  "QuantityInUnits": 0,  
  "QuantityInPack": 0  
}
```

Field Name	Type	Notes
MOPHCode	Varchar(40)	
Name	Varchar(400)	
Barcode	Varchar(200)	
ExpiryDate	DateTime	
LotNumber	Varchar(50)	
SerialValue	Varchar(200)	
QuantityInUnits	Int	
QuantityInPack	Int	

1.7 GetMedicationBatchExpiryBarcode Method: Get Medication Batch Expiry Barcode Info

1.7.1 URL Pattern

<https://{BaseUrl}/api/MOH/GetMedicationBatchExpiryBarcode>

1.7.2 Method

- POST

1.7.3 Parameters

The method takes JSON object as parameter:

```
{  
  "MOHCode": "MOH Medication Code"  
}
```

- **MOHCode:** (**String**) MOH Medication Code (keep it null or empty to get the list of all medications)

1.7.4 Reply Back

Returns back a list of medications in the following JSON format:

```
{  
  "MOPHCode": "10103",  
  "Name": "TRAVOCORT 20g",  
  "Barcode": "]D201057021910244631722043010YY02L00",  
  "ExpiryDate": "2022-04-30T00:00:00",  
  "LotNumber": "YY02L00",  
  "Date": "2020/10/10",  
}
```

Field Name	Type	Notes
MOPHCode	Varchar(40)	
Name	Varchar(400)	
Barcode	Varchar(200)	
ExpiryDate	DateTime	
LotNumber	Varchar(50)	
FirstEntryDate	Nullable<DateTime>	

1.8 GetMedicationGTIN Method: Get Medication GTIN Info

1.8.1 URL Pattern

<http://{BaseUrl}/api/MOH/GetMedicationGTIN>

1.8.2 Method

- POST

1.8.3 Reply Back

Returns back a list in the following JSON format:

```
{  
  "MOHCode": "10103",  
  "GTIN": "06285111000819",  
  "SourceType": "1",  
  "SourceTypeDescription": "Imported",  
  "NeedPrescription": true  
}
```

Field Name	Type	Notes
MOHCode	Varchar(40)	
GTIN	Varchar(200)	
SrouceType	Bigint	1- Imported 2- Manufactured
SourceTypeDescription	Varchar(200)	
NeedPrescription	Boolean	

1.9 Validate UHID Method: validate patient ID on UHID

1.9.1 URL Pattern

<http://{BaseUrl}/api/UHID/ValidateUHID>

1.9.2 Method

- GET

1.9.3 Parameters:

string patientId

1.9.4 Reply Back

Returns back a list in the following JSON format:

```
{
  Success: true,
  Message: "",
  PatientInfo: {
    patientUUID: "10803011587322",
    firstNameAr: "جميل",
    fatherNameAr: "دام",
    lastNameAr: "فرح",
    motherNameAr: "حليمة",
    motherLastNameAr: "لمسة",
    firstNameEn: "JAMIL",
    fatherNameEn: "DAM",
    lastNameEn: "FARAH",
    motherNameEn: "HALIMA",
    motherLastNameEn: "LAMSA",
    dateOfBirth: "2001-03-08T00:00:00",
    idNumber: "2312312312",
    registryNumber: "90",
    Gender: { id: "", name: "" }
  }
}
```

Field Name	Type	Notes
Success	bool	
Message	String	
PatientInfo	Object	

1.10 GetMedicationPriceInfo Method: Get Medication Price Info

1.10.1 URL Pattern

<https://{BaseUrl}/api/MOH/GetMedicationPriceInfo>

1.10.2 Method

- POST

1.10.3 Reply Back

Returns back a list in the following JSON format:

```
{  
  "MOHCode": "6408",  
  "RegistrationNumber": "24656/07",  
  "BrandName": "REMEPRAZOLE 20",  
  "BrandId": 2788,  
  "Strength": "20mg",  
  "Presentation": "14",  
  "Form": "Capsule",  
  "Agent": "MAZEN PHARM PHARMACEUTICAL COMPANY SARL",  
  "AgentId": 64188,  
  "Manufacturer": "Remedica Ltd",  
  "ManufacturerId": 215,  
  "Country": "Cyprus",  
  "CountryId": 13,  
  "PublicPrice": 471831.0,  
  "PriceDate": "2023-02-01T00:00:00",  
  "GTIN": "05290665002951",  
  "NeedPrescription": false,  
  "NeedPatientId": false  
}
```

Field Name	Type	Notes
MOHCode	varchar(40)	
GTIN	varchar(200)	

RegistrationNumber	varchar(200)	
BrandName	varchar(200)	
BrandId	bigint	
Strength	varchar(200)	
Presentation	Varchar(200)	
Form	Varchar(200)	
Agent	Varchar(400)	
AgentId	bigint	
Manufacturer	Varchar(400)	
ManufacturerId	bigint	
Country	Varchar(200)	
CountryId	bigint	
PublicPrice	Decimal	nullable
PriceDate	Datetime	nullable
NeedPrescription	Boolean	
NeedPatientId	Boolean	