

Interoperability API

Endpoint Support Document

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| Scope: | This document provides the details needed to access and connect to the Patient Access API, Provider Directory API and the Formulary API Endpoints. | | | | |

POLICY

Per the United States Centers for Medicare & Medicaid Services (CMS) Interoperability (IO) and Patient Access Final Rule, data is made available via an Application Programming Interface (API) for accessing an individual's health information. Additional APIs include the Provider Directory and Formulary APIs.

RESPONSIBILITY

All associates, contractors and business partners must comply with the requirements in this document and the supporting procedures. Compliance with the CMS IO Final Rule and related procedures will be maintained and overseen by the Interoperability Center of Excellence (IO CoE).

PURPOSE

This document outlines all the endpoints available for connections and accessing the Patient Access API, Provider Directory API and the Formulary API. This document is intended to provide guidance to alliance partners, application developers or others seeking access to these APIs once an agreement is in place. The Provider Directory production environment, Formulary production environment, Patient Access Sandbox environment and are public, however they require registration. The Patient Access API production environment requires member consent. Once received, a token will be issued and valid for 90 days to access this data. Ongoing access will require renewed consent.

PATIENT ACCESS API

The Patient Access API contains 5 years of historical medical, dental and vision claims and clinical data for an individual. The Patient Access API adheres to the following specifications:

- [US Core Implementation Guide 6.1.0](#)
- [CARIN Consumer Directed Payer Data Exchange \(CARIN IG for Blue Button\) Implementation Guide STU 2.1.0](#)
- [HL7 FHIR Release 4.0.1](#)
- [SMART Application Launch Framework Implementation Guide Release 2.2.0](#)

Documentation and technical information related to the patient API can be found [here](#).

NOTE: Prior Authorization data required by CMS-0057 final rule will be added to the Patient Access API by 1/1/27.

Patient Access API – Sandbox Environment

This is a public environment for FHIR functional testing containing synthetic data. It is available for Application Developers upon registration and supports the HL7® FHIR® standard with SMART® authorization.

SMART® clients can be registered and maintained [here](#).

Users can self-register for sandbox accounts [here](#).

Patient Access API – Production Environment

This is the live data environment for the Patient Access API endpoints. Registration is required to properly establish connections. Requests can be made by completing the Patient Access API Production Environment request form on the Developer Portal.

For accessing the Formulary information of a specific member and the supported searches along with the endpoints, please refer to the Formulary API section. The same endpoints can also be used to fetch the formulary data for all our plans and have a member choose a plan for his/her plan specific formulary.

FHIR Endpoints (Production Base URL)

| Brand | Brand URL Endpoint |
|-------|--------------------|
|-------|--------------------|

| | |
|-------------------------------|---|
| Amerigroup | https://totalview.healthos.elevancehealth.com/resources/registered/Amerigroup/api/v1/fhir |
| Anthem Blue Cross | https://totalview.healthos.elevancehealth.com/resources/registered/AnthemBlueCross/api/v1/fhir |
| Anthem Blue Cross Blue Shield | https://totalview.healthos.elevancehealth.com/resources/registered/AnthemBlueCrossBlueShield/api/v1/fhir |
| Blue Medicare Advantage | https://totalview.healthos.elevancehealth.com/resources/registered/BlueMedicareAdvantage/api/v1/fhir |
| Clear Health Alliance | https://totalview.healthos.elevancehealth.com/resources/registered/ClearHealthAlliance/api/v1/fhir |
| Dell Children Health Plan | https://totalview.healthos.elevancehealth.com/resources/registered/DellChildrenHealthPlan/api/v1/fhir |
| Healthy Blue | https://totalview.healthos.elevancehealth.com/resources/registered/HealthyBlue/api/v1/fhir |
| Healthy Blue Blue Choice | https://totalview.healthos.elevancehealth.com/resources/registered/HealthyBlueBlueChoice/api/v1/fhir |
| Healthy Blue NC | https://totalview.healthos.elevancehealth.com/resources/registered/HealthyBlueNC/api/v1/fhir |
| Simply HealthCare | https://totalview.healthos.elevancehealth.com/resources/registered/SimplyHealthCare/api/v1/fhir |
| Summit | https://totalview.healthos.elevancehealth.com/resources/registered/Summit/api/v1/fhir |
| Unicare | https://totalview.healthos.elevancehealth.com/resources/registered/Unicare/api/v1/fhir |
| Wellpoint | https://totalview.healthos.elevancehealth.com/resources/registered/Wellpoint/api/v1/fhir |

PROVIDER DIRECTORY API

Provider Directory API enables current or prospective members to see which providers are in-network for a given insurance plan. This service includes multiple FHIR APIs: InsurancePlan, Practitioner, PractitionerRole, Organization, Organization Affiliation and Location.

These APIs adhere to the following specifications:

- [HL7 R4 FHIR](#)
- [DaVinci PDEX Plan Net 1.1.0](#)
- [HL7 FHIR US Core IG STU 3.1.1](#) (for the US Core resources, Plan-Net Location, Plan-Net Organization, Plan-Net Practitioner)

To establish connections, third party application (TPA) need to complete the Registration process. This involves filling out the Provider Directory API Production Environment request form, available on the Developer Portal. Once the registration is successfully completed, TPA will receive the client credentials and the access token URL through a secure email.

To access Provider Directory data using the OAuth 2.0 client credentials flow, follow these enhanced steps:

Step 1: Generate the Access Token

1. **Access Token URL:**
 - Use the access token endpoint URL which you received in the secure email
2. **Client Credentials:**
 - Ensure you have your client ID and client secret, which you received during registration.
3. **Request Parameters:**
 - Set the grant type to client credentials.
4. **Make an Access Token Request:**

Using CURL:

```
1curl -X POST <access token endpoint URL>
2-H 'Content-Type: application/x-www-form-urlencoded' \
3-H 'Authorization: Basic <my-base64-encoded-username-and-password>
4-d 'grant_type=client_credentials' \
```
5. **Receive and Store Access Token:**
 - Upon successful request, you'll receive a JSON response containing the access token. Securely store this token for your API requests.

Step 2: Query the Provider Directory Data

1. API Endpoint:

- Use the following FHIR data endpoint:
https://totalview.healthos.elevancehealth.com/resources/unregistered/api/v1/fhir/cms_mandate/mcd/

2. Make an API Request with the Access Token:

Using CURL:

```
1curl -X GET
'https://totalview.healthos.elevancehealth.com/resources/unregistered/api/v1/fhir/cms_mandate/mcd/'
\
2-H 'Authorization: Bearer YOUR_ACCESS_TOKEN'
```

By following these steps, you will be equipped to successfully generate an access token and use it to query the Provider Directory data. Ensure that your credentials are accurate and that you are handling the access token securely. If you run into any issues, consider verifying the endpoint URLs and your connectivity.

Supported Search Parameters

Insurance Plan Search Parameters

| Parameter | Example |
|--------------|---|
| _id | GET [base]/InsurancePlan?_id=[id] |
| _lastupdated | GET [base]/InsurancePlan?_lastUpdated=[date] |
| name | GET [base]/InsurancePlan?name=[string] |
| identifier | GET [base]/InsurancePlan?identifier=[system] [code] |
| type | GET [base]/InsurancePlan?type=[system] [code] |

Location Plan Search Parameters

| Parameter | Example |
|--------------------|---|
| _id | Get [base]/Location?_id=[id] |
| _lastupdated | GET [base]/Location?_lastUpdated=[date] |
| name | GET [base]/Location?=[name] |
| address-city | GET [base]/Location?address-city=[string] |
| address-postalcode | GET [base]/Location?address-postalcode=[string] |
| address-state | GET [base]/Location?address-state=[string] |

| | |
|---------|--------------------------------------|
| address | GET [base]/Location?address=[string] |
|---------|--------------------------------------|

Practitioner Search Parameters

| Parameter | Example |
|--------------|---|
| _id | Get [base]/Practitioner?_id=[id] |
| _lastupdated | GET [base]/Practitioner?_lastUpdated=[date] |
| name | GET [base]/Practitioner?name=[string] |
| family | GET [base]/Practitioner?family=[string] |
| given | GET [base]/Practitioner?given=[string] |

Organization Search Parameters

| Parameter | Example |
|--------------|--|
| _id | Get [base]/Organization?_id=[id] |
| _lastupdated | GET [base]/Organization?_lastUpdated=[date] |
| name | GET [base]/Organization?name=[string] |
| Type | GET [base]/Organization?type=[system] [code] |
| Address | GET [base]/Organization?address=[string] |

Healthcare Services Parameters

| Parameter | Example |
|--------------|--|
| _id | Get [base]/HealthcareService?_id=[id] |
| _lastupdated | GET [base]/ HealthcareService?_lastUpdated=[date] |
| name | GET [base]/HealthcareService?name=[string] |
| organization | GET [base]/HealthcareService?organization=[organization] |
| location | GET [base]/HealthcareService?location=[location] |
| Specialty | GET [base]/HealthcareService?specialty=[system] [code] |
| service-type | GET [base]/HealthcareService?type=[system] [code] |

| | |
|--------------------------------|--|
| service-category | GET [base]/HealthcareService?category=[system] [code] |
| HealthcareService:location | GET [base]/HealthcareService?[parameter=value]&_include=HealthcareService:location |
| HealthcareService:organization | GET [base]/HealthcareService?[parameter=value]&_include=HealthcareService:organization |

Organization Affiliation Search Parameters

| Parameter | Example |
|--|--|
| _id | Get [base]/OrganizationAffiliation?_id=[id] |
| _lastupdated | GET [base]/OrganizationAffiliation?_lastUpdated=[date] |
| participating-organization | GET [base]/ OrganizationAffiliation?participating-organization=[string] |
| primary-organization | GET [base]/OrganizationAffiliation?primary-organization=[primary-organization] |
| Location | GET [base]/ OrganizationAffiliation?location=[location/reference] |
| Service | GET [base]/ OrganizationAffiliation?service=[service/reference] |
| Network | GET [base]/ OrganizationAffiliation?network=[network/reference] |
| Specialty | GET [base]/ OrganizationAffiliation?specialty=[system] [code] |
| Role | GET [base]/ OrganizationAffiliation?role=[system] [code] |
| OrganizationAffiliation:primary-organization | GET [base]/OrganizationAffiliation?[parameter=value]&_include=OrganizationAffiliation:primary-organization |
| OrganizationAffiliation:participating-organization | GET [base]/OrganizationAffiliation?[parameter=value]&_include=OrganizationAffiliation:participating-organization |

| | |
|----------------------------------|---|
| OrganizationAffiliation:location | GET [base]/OrganizationAffiliation?[parameter=value]&_include=OrganizationAffiliation:location |
| OrganizationAffiliation:service | GET [base]/OrganizationAffiliation?[parameter=value]&_include=OrganizationAffiliation:service |
| OrganizationAffiliation:network | GET [base]/OrganizationAffiliation?[parameter=value]&_include=OrganizationAffiliation:network |

Practitioner Role Search Parameters

| Parameter | Example |
|-------------------------------|---|
| _id | Get [base]/PractitionerRole?_id=[id] |
| _lastupdated | GET [base]/_PractitionerRole?_lastUpdated=[date] |
| Practitioner | GET [base]/_PractitionerRole?practitioner=[practitioner/reference] |
| organization | GET [base]/ PractitionerRole?organization=[organization/reference] |
| location | GET [base]/ PractitionerRole?location=[location/reference] |
| service | GET [base]/ PractitionerRole?service=[service/reference] |
| network | GET [base]/ PractitionerRole?network=[network/reference] |
| role | GET [base]/ PractitionerRole?role=[system][code] |
| specialty | GET [base]/ PractitionerRole?specialty=[system][code] |
| PractitionerRole:practitioner | GET[base]/PractitionerRole?[parameter=value]&_include=PractitionerRole:practitioner |
| PractitionerRole:organization | GET[base]/PractitionerRole?[parameter=value]&_include=PractitionerRole:organization |
| PractitionerRole:location | GET[base]/PractitionerRole?[parameter=value]&_include=PractitionerRole:location |
| PractitionerRole:service | GET[base]/PractitionerRole?[parameter=value]&_include=PractitionerRole:service |
| PractitionerRole:network | GET[base]/PractitionerRole?[parameter=value]&_include=PractitionerRole:network |

FORMULARY API

The Formulary API provides data on formularies associated with different insurance plans and the corresponding drug lists. Data on cost sharing for the drugs under a formulary, their respective tier and pharmacy type data is also available through the API. We currently have data on Medicare, Medicaid, and CHIP plans.

The API adheres to the following specifications:

- [HL7 R4 FHIR](#)
- [DaVinci Payer Data Exchange \(PDEX\) US Drug Formulary IG 2.0.1 STU2 US](#)

To establish connections, third party applications (TPA) need to complete the registration process. This involves filling out the Formulary API Production Environment request form, available on the Developer Portal. Once the registration is successfully completed, TPA will receive the client credentials and the access token URL through a secure email.

To access Formulary data using the OAuth 2.0 client credentials flow, follow these enhanced steps:

Step 1: Generate the Access Token

1. Access Token URL:

- Use the access token endpoint URL which you received in the secure email

2. Client Credentials:

- a. Ensure you have your client ID and client secret, which you received during registration.

3. Request Parameters:

- a. Set the grant type to client credentials.

4. Make an Access Token Request:

When using CURL:

```
1curl -X POST <access token endpoint URL>
2-H 'Content-Type: application/x-www-form-urlencoded' \
3-H 'Authorization: Basic <my-base64-encoded-username-and-password>' \
4-d 'grant_type=client_credentials' \
```

5. Receive and Store Access Token:

- Upon successful request, you'll receive a JSON response containing the access token. Securely store this token for your API requests.

Step 2: Query Formulary Data

6. API Endpoint:

- a. Use the following FHIR data endpoint:

https://totalview.healthos.elevancehealth.com/resources/unregistered/api/v1/fhir/cms_mandate/frmlry

7. Make an API Request with the Access Token:

When using CURL:

```
1curl -X GET  
'https://totalview.healthos.elevancehealth.com/resources/unregistered/api/v1/fhir/cms_mandate/frmlry/  
' \  
2-H 'Authorization: Bearer YOUR_ACCESS_TOKEN'
```

By following these steps, you will be equipped to successfully generate an access token and use it to query the Formulary data. Ensure that your credentials are accurate and that you are handling the access token securely. If you run into any issues, consider verifying the endpoint URLs and your connectivity.

Covered API Searches

PayerInsurancePlan & Formulary (InsurancePlan)

| Parameter | Example |
|-------------------|--|
| _id | GET [base]/InsurancePlan?_id=[id] |
| _lastUpdated | GET [base]/InsurancePlan?_lastUpdated=[date] |
| identifier | GET [base]/InsurancePlan?identifier=[system] [code] |
| status | GET [base]/InsurancePlan?status=[code] |
| period | GET [base]/InsurancePlan?period=[date] |
| type | GET [base]/InsurancePlan?type=[system] [code] |
| name | GET [base]/InsurancePlan?name=[string] |
| coverage-type | GET [base]/InsurancePlan?coverage-type=[system] [code] |
| formularycoverage | GET [base]/InsurancePlan?formulary-coverage=[reference] |
| coverage-area | GET [base]/InsurancePlan?coverage-area=[reference] |

FormularyItem (Basic)

| Parameter | Sample URL |
|-----------------------|--|
| _id | GET [base]/Basic?_id=[id] |
| _lastUpdated | GET [base]/Basic?_lastUpdated=[date] |
| code | GET [base]/Basic?code=formulary-item |
| subject | GET [base]/Basic?subject=[reference] |
| status | GET [base]/Basic?status=[code] |
| period | GET [base]/Basic?period=[date] |
| formulary | GET [base]/Basic?formulary=[reference] |
| pharmacy-benefit-type | GET [base]/Basic?pharmacy-benefit-type=[system] [code] |
| drug-tier | GET [base]/Basic?drug-tier=[system] [code] |

FormularyDrug (MedicationKnowledge)

| Parameter | Sample URL |
|--------------|---|
| _id | GET [base]/MedicationKnowledge?_id=[id] |
| _lastUpdated | GET [base]/MedicationKnowledge?_lastUpdated=[date] |
| status | GET [base]/MedicationKnowledge?status=[code] |
| code | GET [base]/MedicationKnowledge?code=[system] [code] |
| drug-name | GET [base]/MedicationKnowledge?drug-name=[string] |

Anticipated Client Queries

| Search | Example |
|---|---|
| Find All PayerInsurancePlans | GET [base]/InsurancePlan?type=http://hl7.org/fhir/us/davinci-pdex-plannet/CodeSystem/InsuranceProductTypeCS |
| Find All Insurance Plans with Drug Coverage | GET [base]/InsurancePlan?coverage-type=http://terminology.hl7.org/CodeSystem/v3-ActCode DRUGPOL |
| Find All Formulary Resource | GET [base]/InsurancePlan?type=http://terminology.hl7.org/CodeSystem/v3ActCode DRUGPOL |

| | |
|---|---|
| Find a Formulary by its Identifier | GET [base]/InsurancePlan?type=http://terminology.hl7.org/CodeSystem/v3ActCode DRUGPOL&identifier=D1002 |
| Find All PayerInsurancePlans by a Formulary | GET [base]/InsurancePlan?formularycoverage=InsurancePlan/FormularyD1002 |

PAYER TO PAYER API

The Payer-to-Payer API will be implemented as required in the CMS-0057 final rule by 1/1/27.

PRIOR AUTHORIZATION API

The Prior Authorization API will be implemented as required in the CMS-0057 final rule by 1/1/27.

PROVIDER ACCESS API

The Provider Access API will be implemented as required in the CMS-0057 final rule by 1/1/27.