

CMS Interoperability third party application developer information

Overview

The Hennepin Health CMS Interoperability developer materials provide third party application developers with API documentation and registration processes.

The Hennepin Health CMS Interoperability APIs will allow third party application developers to retrieve Hennepin Health patient and provider directory information. The patient API exposes member data including claim information, select clinical data and drug formulary information. The provider directory API exposes various provider information including specialties and location data.

Authentication/authorization will be performed using OpenID Connect and OAUTH2 protocols. A private subscription key will be required to access the patient API. A subscription key will be required to access the provider API. A public subscription key can be used to access the provider directory API. Below are the header key and values that should be added to the request header to access the provider API using a public subscription key:

Key	Value
Ocp-Apim-Subscription-Key	9cff03cf12144a42888d98da4b01be56
Ocp-Apim-Trace	true
api-version	v2

Additionally, the member will be required to access a Hennepin Health web application to provide consent. The URL of the consent application is: fhirconsent.hennepin.us.

Obtaining developer access to Hennepin Health

To obtain access to Hennepin Health APIs, please email CMSInteropDevSupport@hennepin.us. The developer registration process is outlined below:

- Contact CMSInteropDevSupport@hennepin.us and request access to the Hennepin Health CMS Interop APIs. An attestation/registration form will be emailed back to the developer.

- Once the attestation/registration form has been received by Hennepin Health, Hennepin Health will configure access and provide developer access information, including a client ID, client secret and authorization endpoints.

API documentation

Two APIs will be provided:

- Patient API (clinical, claims and drug formulary data)
 - The patient API is protected by OpenID Connect and OAUTH2 and user consent to share their information with a third part app.
- Provider Directory (provider data)
 - The provider directory API does not require any authentication

API Endpoints

API	Resource	Resource endpoint	Implementation guide
Patient	Patient	api.hennepin.us/fhir/patientapi/Patient	Carin Blue Button
Patient	Coverage	api.hennepin.us/fhir/patientapi/Coverage	Carin Blue Button
Patient	Organization	api.hennepin.us/fhir/patientapi/Organization	Carin Blue Button
Patient	Practitioner	api.hennepin.us/fhir/patientapi/Practitioner	Carin Blue Button
Patient	EOB	api.hennepin.us/fhir/patientapi/ExplanationOfBenefit	Carin Blue Button
Patient	Formulary Drug	api.hennepin.us/fhir/patientapi/MedicationKnowledge	Da Vinci PDEX Drug Formulary
Patient	Coverage Plan	api.hennepin.us/fhir/patientapi/List	Da Vinci PDEX Drug Formulary
Patient	Procedure	api.hennepin.us/fhir/patientapi/Procedure	US Core
Patient	Goal	api.hennepin.us/fhir/patientapi/Goal	US Core
Patient	CarePlan	api.hennepin.us/fhir/patientapi/Careplan	US Core
Patient	Smoking Status	api.hennepin.us/fhir/patientapi/Observation	US Core
Patient	Location	api.hennepin.us/fhir/patientapi/Location	US Core
Patient	Organization	api.hennepin.us/fhir/patientapi/Organization	Carin Blue Button
Patient	Practitioner	api.hennepin.us/fhir/patientapi/Practitioner	Carin Blue Button

Provider Directory	Location	api.hennepin.us/fhir/providerapi/Location	US Core
Provider Directory	Organization	api.hennepin.us/fhir/providerapi/Organization	Carin Blue Button
Provider Directory	Practitioner	api.hennepin.us/fhir/providerapi/Practitioner	Carin Blue Button
Provider Directory	Practitioner Role	api.hennepin.us/fhir/providerapi/PractitionerRole	US Core

API get samples

Procedure parameters and example

Parameter name	Example URL
Patient	api.hennepin.us/fhir/patientapi/procedure?patient=xxxxxxx x

Goal parameters and example

Parameter name	Example URL
Patient	api.hennepin.us/fhir/patientapi/goal?patient=xxxxxxx

CarePlan parameters and example

Parameter name	Example URL
Patient AND category	api.hennepin.us/fhir/patientapi/CarePlan?Category=http://hl7.org/fhir/patientapi/uss/core/CodeSystem/careplan-category assess-plan&Patient=xxxxxxx

Smoking Status parameters and example

Parameter name	Example URL
Patient	api.hennepin.us/fhir/patientapi/Observation?Patient=xxxxxxx
Patient AND code	api.hennepin.us/fhir/patientapi/Observation?Code=LA18980-5&patient=xxxxxxx

Location parameters and example

Parameter name	Example URL
Name	api.hennepin.us/fhir/patientapi/Location?Name=Smith
Address	api.hennepin.us/fhir/patientapi/Location?address=Arbor

Organization parameters and example

Parameter name	Example URL
Name	api.hennepin.us/fhir/patientapi/Organization?Name=Smith
Address	api.hennepin.us/fhir/patientapi/Organization?address=Arbor

Practitioner parameters and example

Parameter name	Example URL
Name	api.hennepin.us/fhir/patientapi/Practitioner?Name=Smith
Identifier	api.hennepin.us/fhir/patientapi/Practitioner?identifier=http://hl7.org/fhir/patientapi/sid/us-npi 1003874892 OR api.hennepin.us/fhir/patientapi/Practitioner?identifier=xxxxxxxx

Patient parameters and example

Parameter name	Example URL
ID	api.hennepin.us/fhir/patientapi/Patient/xxxxxxxx
Identifier	api.hennepin.us/fhir/patientapi/Patient?identifier=xxxxxxxx
Name	api.hennepin.us/fhir/patientapi/Patient/?Name=Smith
Birthdate AND name	api.hennepin.us/fhir/patientapi/Patient/?Name=Smith&Birthdate=1985-06-24
Gender AND name	api.hennepin.us/fhir/patientapi/ Patient/?Name=Smith&Gender=unknown

Coverage plan parameters and example

Parameter name	Example URL
<None>	api.hennepin.us/fhir/patientapi/List
ID	api.hennepin.us/fhir/patientapi/List/NVMCS-80
Identifier	api.hennepin.us/fhir/patientapi/List?identifier=NVMCS-80