NYeC 1115 Waiver

Retrieve API Specification

For use by Qualified Entities

# Document History

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| --- | --- | --- | --- | --- |
| **Date** | **Author** | **Description** | **Version** | **Status** |
| 04/16/2024 | Fred Harmon | Initial Draft | 0.1 | Draft |
| 04/19/2024 | Fred Harmon | Updates based on working API Endpoints. Reorganized sections. Added Test Patients. Updated HTTP response codes | 0.2 | Draft |
| 4/21/2024 | Fred Harmon | Added support for APi to get just the latest screening date | 0.3 | Draft |
| 04/23/2024 |  | Published First Version to QE’s | 1.0 | V 1.0 |
| 04/24/2024 | Fred Harmon | Revised language for the second HRSNScreening API call example to be clear that it returns ALL screenings (not a single screening). Included Query parameters and http response codes sections for HRSNScreeningDate. Remove appendix as it was redundant info. | 1.1 |  |
| 04/24/2024 | Michael Berger | Added a footnote with expected values for “QE Name”[[1]](#footnote-2) and matched QE names to the values in data lake for example “Rochester” became “GRRHIO” | 1.1 |  |

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# Overview

## Background & Problem

The proposed 1115 Waiver was written to support the collection of Health-Related Social Needs (HRSN) screening and assessment data for Medicaid patients and get them into services. To be eligible for services, a Medicaid patient may be screened and present a need. To effectively manage, consolidate, and present screening and assessment data the SHIN-NY data lake has been created to ingest and persist these data.

## Purpose

The purpose of this document is to provide an API specification for an API developed by the Statewide Health Information Network for New York (SHIN-NY), specifically designed to access and present HRSN screening data for individual patients. This API initiative is a critical component of our broader efforts to support healthcare providers and care managers in identifying and addressing the social determinants of health that affect Medicaid recipients under the 1115 Waiver program.

These APIs will enable Qualified Entities (QEs) detailed information on all HRSN screenings for a specific patient, facilitating a focused and efficient approach to patient care planning and support. QE’s could then expose this data to their customers, such as MCO’s, for use in their customers clinical systems and workflows.

# API Specifications

## Authentication and Authorization

DEV – No Authentication or Authorization. Only synthetic data will ever be returned from this environment.

TEST/QA - Coming Soon

PROD - Coming Soon

NOTE: Over the course of the project QE’s should expect security to change, for example when we move to higher landscapes such as QE’s the underlying security will be increased.

## API Endpoints

|  |  |
| --- | --- |
| **Environment** | **BaseURL** |
| DEV | https://qo5beg39c8.execute-api.us-east-1.amazonaws.com/dev/ |
| TEST/QA | TBD – Will be developed once we have completed testing in DEV |
| PROD | TBD |

## Resources

### HRSNScreening

Get the latest screening or optionally all screenings for a single patient

#### Query Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Required** | **Sample** |
| qe\_name | Name of the QE the source and MRN is from. | Y | BRONX[[2]](#footnote-3) |
| source\_code | Facility/source code | Y | CNYSCN |
| mrn | Local MRN for the patient in the facility/source | Y | 222333444 |
| return\_all\_bundles | Flag if you want all available HRSN data for the MRN. Default is 0 if not sent. | N | 1 |

#### Response Codes

|  |  |
| --- | --- |
| **HTTP Status** | **Description** |
| 200 | OK – Available Screening Data Returned |
| 400 | Bad Request – Required parameter not provided |
| 404 | Not Found – Patient wasn’t found in the DB |
| 50X | Unexpected Error – Please Report to NYeC |

#### API Request Examples

Below are two examples, one for returning the latest data for a patient and one for returning all data. See [\_Test Patients](#_Test_Patients) for more possible combinations of pre-loaded data.

1. This example shows how you would call the API to retrieve the most recent 1115 Waiver Screening responses for a single patient using the MRN from at ‘CNYSCN’ facility that uses ‘HEALTHELINK’ as a QE.
   1. <https://qo5beg39c8.execute-api.us-east-1.amazonaws.com/dev/HRSNScreening?qe_name=HEALTHELINK&source_code=CNYSCN&mrn=111222333>
2. This example shows how you would call the API to retrieve **all of the**1 115 Waiver Screening responses for a single patient using the MRN from at ‘CNYSCN’ facility that uses BRONX as a QE. The data returned is a “bundle of bundles”.
   1. <https://qo5beg39c8.execute-api.us-east-1.amazonaws.com/dev/HRSNScreening?qe_name=BRONX&source_code=CNYSCN&mrn=222333444&return_all_bundles=1>

#### API Response Examples

The default response to the API request will be a [FHIR Bundle](https://www.hl7.org/fhir/R4/bundle.html). Within the FHIR bundle will be a collection of FHIR resources that represent the most recent 1115 Waiver screening data collected for this person. The FHIR Bundle will include the following resources: Patient, Encounter, Observation, Organization.

If the caller uses the query parameter “return\_all\_bundles=1” then multiple bundles will be returned if they exist. In this case, we will return a bundle of bundles.

### HRSNScreeningDate

Get the latest screening date for a patient.

#### Query Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Required** | **Sample** |
| qe\_name | Name of the QE the source and mrn is from. | Y | BRONX |
| source\_code | Facility/source code | Y | CNYSCN |
| mrn | Local MRN for the patient in the facility/source | Y | 222333444 |

#### Response Codes

|  |  |
| --- | --- |
| **HTTP Status** | **Description** |
| 200 | OK – Latest Screening Date Returned |
| 400 | Bad Request – Required parameter not provided |
| 404 | Not Found – Patient wasn’t found in the DB |
| 50X | Unexpected Error – Please Report to NYeC |

#### API Request Examples

Below are two examples, one for returning the latest data for a patient and one for returning all data. See [\_Test\_Patients](#_Test_Patients) for more possible combinations of pre-loaded data.

1. This example shows how you would call the API to retrieve the most recent 1115 Waiver Screening Date response for a single patient using the MRN from at ‘CNYSCN’ facility that uses ‘HEALTHELINK’ as a QE.
   1. <https://qo5beg39c8.execute-api.us-east-1.amazonaws.com/dev/HRSNScreeningDate?qe_name=HEALTHELINK&source_code=CNYSCN&mrn=111222333>

#### API Response Examples

1995-10-08T16:23:39+00:00

# Troubleshooting

TBD once we know issues QE’s are having.

# Test Patients

The below test patients can be used for all API Resources.

|  |  |  |  |
| --- | --- | --- | --- |
| **QE** | **Source** | **MRN** | **Notes** |
| BRONX | CNYSCN | 111222333 | Has a single bundle available |
| BRONX | CNYSCN | 222333444 | Has a 2 bundles available. |
| HEALTHECONN | CNYSCN | 111222333 | Has a single bundle available |
| HEALTHECONN | CNYSCN | 222333444 | Has a 2 bundles available. |
| HEALTHELINK | CNYSCN | 111222333 | Has a single bundle available |
| HEALTHELINK | CNYSCN | 222333444 | Has a 2 bundles available. |
| HEALTHIX | CNYSCN | 111222333 | Has a single bundle available |
| HEALTHIX | CNYSCN | 222333444 | Has a 2 bundles available. |
| HIXNY | CNYSCN | 111222333 | Has a single bundle available |
| HIXNY | CNYSCN | 222333444 | Has a 2 bundles available. |
| GRRHIO | CNYSCN | 111222333 | Has a single bundle available |
| GRRHIO | CNYSCN | 222333444 | Has a 2 bundles available. |

# Sample Code

Sample python code for getting calling the HRSN end point, using basic auth.

“Find more recent screening and get the date from the response”

import requests

# URL of the API endpoint

url = 'https://qo5beg39c8.execute-api.us-east-1.amazonaws.com/dev/HRSNScreening'

params = {

    'qe\_name': 'HEALTHELINK',

    'source\_code': 'CNYSCN',

    'mrn': '111222333'

}

# Send a GET request to the API endpoint

response = requests.get(url, params=params)

# Check if the request was successful

if response.status\_code == 200:

    data = response.json()

    # Extract the 'lastUpdated' date from the 'meta' field in the JSON response

    last\_updated\_date = data['meta']['lastUpdated']

    print("Last updated date:", last\_updated\_date)

else:

    print(f"Failed to retrieve data. Status code: {response.status\_code}")

1. QE Names match data lake | BRONX, HEALTHELINK, HEALTHIX, HIXNY, GRRHIO [↑](#footnote-ref-2)
2. QE Names match data lake | BRONX, HEALTHELINK, HEALTHIX, HIXNY, GRRHIO [↑](#footnote-ref-3)