

Agenda

- What is Helios?
- Where have we been working?
- How are you thinking about bulk data access?



HELIOS FHIR Accelerator

Helping public health to align with and benefit from the widespread standardization and transformation that is happening around digital health data

Focusing on Impact

Bring People Together Aligning Efforts



HELIOS FHIR Accelerator

2024 Community-led priority areas

Deliver Aggregate
Information to
Public Health



Make Data in Public Health Systems Accessible in Bulk



Public Health Query & Response



Make Data in Public Health Systems Accessible in Bulk



Goals

Enable authorized users of Public Health data—such as healthcare partners, private sector payers, state Medicaid programs and schools—to access complete, accurate, and timely information on their patients and member populations in a consistent way using existing Bulk FHIR API standards.

Who is Actively Engaged

- IIS Community
 - AIRA
 - IIS Vendors & Jurisdictions

- EHR Vendors
- Federal Partners

Key Steps

- Document technical and business needs as well as workflows
- Identify common strategies for bulk patient matching
- Advance testing to be ready for real-world pilots



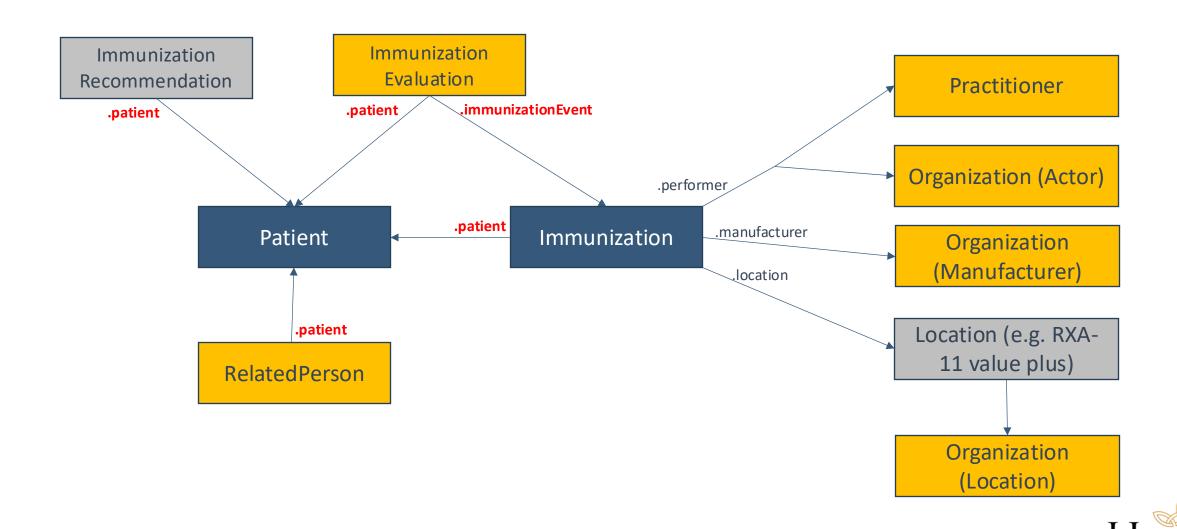
Bulk Data Access IG 2.0.0 - Standard for Trial Use



Home Export Authorization FHIR Artifacts Downloads Abbreviations

Table of Contents > Bulk Data IG Home Page

Immunization Payload



Testing

January 2023 HL7 Connectathon Henderson, NV

July 2023
Virtual Testing
Event

January 2024
HL7 Connectathon
Virtual































Patient Cohorts

Types of Groups

- Persistent Groups (enumerated)
 - A list of individuals where the list is expected to be relatively stable over time
 - Example use cases:
 - A healthcare organization (HCO) creates a list of patients under their longterm care
 - A payer creates a list of members they are responsible for
- Transient Groups (enumerated)
 - A list of individuals where many (or all) of the individuals are expected to change frequently
 - Example use case:
 - An HCO creates a Group of patients scheduled to be seen the follow day, and updates the list each day with a new set of individuals
- Characteristic Groups
 - A set of characteristics which describes qualities that Group members have
 - Example use cases:
 - All individuals residing in a specific zip code under a specified age

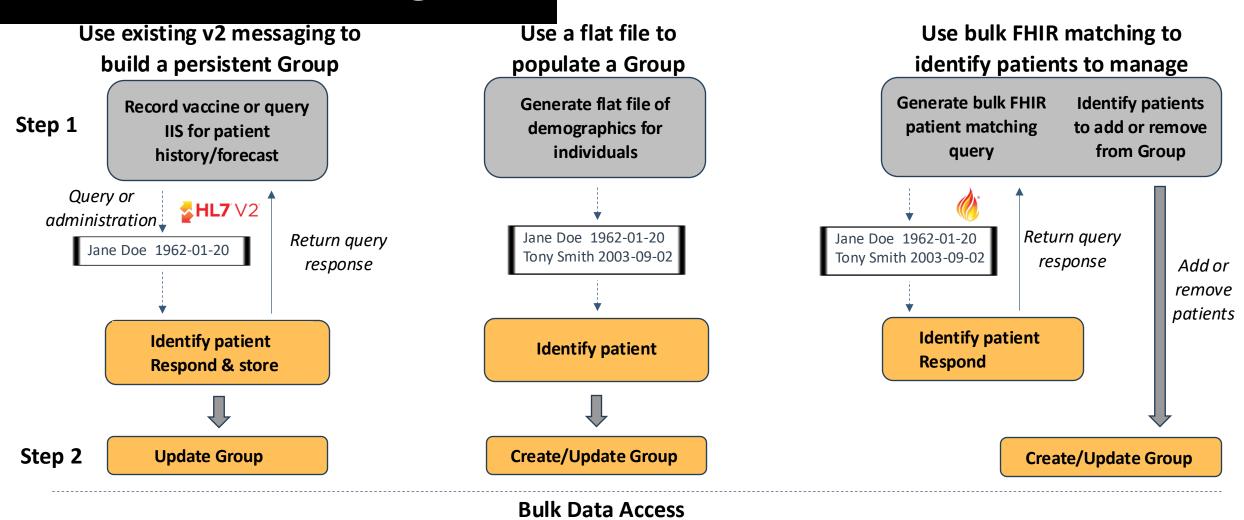


Patient Matching

User System (e.g. EHR)

AKA FHIR Client

IIS AKA FHIR Server



Step 3

Submit query that references existing list

Bulk FHIR request

Reference to Cohort ID

Query Response Return data for members of the cohort referenced in the request

Security/Authentication

Authentication on FHIR

HL7 v2 Authentication

- Typically involves username/password tedious to share and can leak or be weak
- Some use certificate authentication, but also tedious

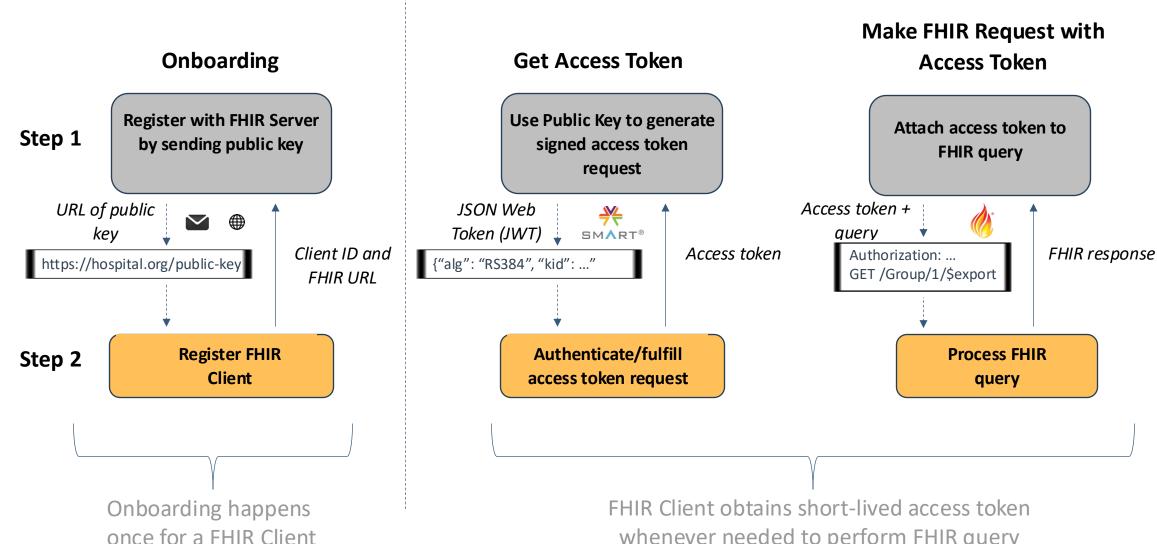
SMART Backend Services Authentication

- Makes it possible to *not* have to share passwords with senders during onboarding
- Partners provide IIS a URL containing their public key
- Leverages public key authentication to securely provide
 FHIR access tokens

SMART Authentication

User System (e.g. EHR) **AKA FHIR Client**

IIS **AKA FHIR Server**



whenever needed to perform FHIR query

Discussion

Technology

- Have you heard of work in your jurisdiction about developing a common FHIR infrastructure?
- Are you part of the FHIR conversations that are happening?
- What plans does your jurisdiction have for FHIR?



Discussion

Groups

- What sort of requests do you get for bulk data?
 - How uniform are the requests and your responses?
 - How many individuals are in a cohort?
 - Are cohorts consistent over time?
- What sort of matching and cohort selection approaches would be useful to your program?



Call to Action

- Helios Priority Area Project Team calls
 - Bi-weekly on Mondays at 12:00PM Eastern
 - o Reach out craig.newman@altarum.org



Talk to your Colleagues

Find out what is happening in your area and beyond



Learn More

Interoperability training opportunities abound

https://phinterop.org/



Create a Plan

Be part of your organization's strategy for FHIR



Get Involved

Lend your voice and come test with us

