CMS Connectathon Track
Highlights

Gravity Track

7.21.22
Gravity Track Lead Team

Track Lead
Aaron Seib
Gravity Executive Committee Co-Chair

Track Lead
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Track Support
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Track Support
Demri Toop, MPA,
CAPM
Gravity Technical Project Coordinator
Gravity Technical Workstream, Powered By

newwave SAFFRON labs

&

AMA
Testers and Turnout

Session 1 features
Brian D. Handspicker, Open City Labs
Michelle Zancan, Zane Networks
Grey Faulkenberry, MayJuun
Matt Bishop, Open City Labs

Session 2 features
Aaron Seib - Saffron Labs
Greg Harris - Saffron Labs
Matt Elrod - MaxMD
Aziz Bozwala - Elimu
Jim Shalaby - Elimu
Yuriy Flyud - HealthLX

75 attendees out of the 95 registered!
Agenda

• Explanation of Use Cases the IG is used for

• Tester Report Out

• Key Findings from Testing Session for Future Useability

• How to Engage with the Gravity IG and the Use Cases Tested
Explanation of Use Cases the Gravity SDOH IG is used for
Gravity SDOH FHIR Implementation Guide

Use Cases

1. Document SDOH data in conjunction with the patient encounter and define Health Concerns / Problems.

2. Patient and provider establish SDOH related goals

3. Plan, communicate, and track related interventions to completion.

4. Measure outcomes.

5. Establish cohorts of patients with common SDOH characteristics for uses beyond the point of care (e.g., population health, quality reporting, public health, and risk adjustment/ risk stratification).

6. Manage patient consent

http://hl7.org/fhir/us/sdoh-clinicalcare/STU1/
Session 1 Tester Report Out

- Use Case 1 – Assessment
  - Care Coordinator using Zane Networks ODH will assign a Task to a Patient to take an Assessment
  - MayJuun will deliver a smartphone assessment survey supported by Questionnaire and QuestionnaireResponse
  - Based on the responses, MayJuun will generate of Observation and Condition – Health Concern FoodInsecurity
Session 1 Tester Report Out

Use Case 2 – Referral Initiation

- The **Practitioner**, using ODH, sets a **CarePlan SDOH Goal** and creates a “needs referral” **Task** for the Referral Manager.
- Referral Manager using ODH will check **Patient** record and launch Open City Labs Navigator360 using **SMART-on-FHIR**.

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Use Case 2 – Referral Initiation

- Navigator360 will use the National Directory to search for a HealthcareService for FoodInsecurity.
- Navigator360 will create ServiceRequest, Task resources for a referral to an NUCC-coded Home Delivered Meals.
Session 1 Tester Report Out

• Use Case 3 – Closed Loop Referral
  • Navigator360 will be used by a Community-based HealthcareService provider to accept the referral Task and ServiceRequest
  • The HealthcareService provider will then use Navigator360 to update the ServiceRequest status

• Use Case 4 – Provider Reviews Closed Loop Referral
  • Care Coordinator uses ODH to verify the Task and ServiceRequest status have been updated to Close the Loop
We used the Gravity Project’s Reference Implementation as the central FHIR Server to demonstrate the closed loop referral process enabled by the Gravity SDOH Exchange IG

Using the open-standard APIs & Gravity Terminology we illustrated one scenario, involving multiple vendors.

- **SAFFRON Labs** will demonstrate the assessment functionality enabled by the IG Featuring two MVPs – one for use by the practice and the other for use by the patient/client.
- **Elimu** will demonstrate how an EMR Launched application would be able to leverage the assessment to start the referral process.
- **HealthLX**, who developed the RI on Gravity’s behalf, will participate in the role of the CBO that is acting on the Elimu referral.
- **MaxMD**, also working against the RI, will demonstrate how the underlying standards can be used by different vendors to perform an assessment, here leveraging the Personal Characteristics survey that is a Survey instrument being fostered by Gravity to collect self reported RESOGI data.
Key Findings From Test Session for Future Useability
Key Findings for Future Useability

• Opportunity to harmonize between the Gravity Project and HL7 HHS WG’s Human Service Resource and Provider Directories FHIR IG activities
  – An opportunity to collaborate between the Gravity IG and the HHS Directory IG to align search criteria supported by the HHS Directory IG with those used in the Gravity IG during the Referral Initiation phase

• Opportunity to align the terminology search criteria supported by the Directory with the “Service” requests of the Gravity Project
Key Findings for Future Usability

- In the **Patient Assessment** process paired questionnaireResponse and structureMap are inputs to the extract operation’s generation of Observations & Conditions.
- The adoption of standard Survey Instruments would be facilitated by - not only the publication of these Survey’s - but their corresponding structureMap as well.
- Especially for validated Surveys - where errors in defining the transforms supported by the structureMap could invalidate the survey’s results.

**Bottom line** - if you are going to publish a Survey Instrument in FHIR Questionnaire, you should also publish its corresponding structureMap
Key Findings for Future Useability

• Emerging best practices on use of algorithms (i.e., portability and transparency).

• Having traceability to the algorithms used to assign a risk score and be able to surface this to the Practitioner so that they understand the source of the risk score.
  
  – It was suggested that US Preventive services could be engaged to evaluate algorithms to assess and minimize the risks associated with these emergent algorithms
  
  – How do we ensure that the algorithms support the goal of equity
• There is resounding support for the collection of self-reported Personal Characteristics (RELSOGI) when administering SDOH Questionnaires.
  – It was noted that the IG leaves to the implementer the enforcement of hierarchy between race/ethnicity and detailed race/ethnicity selections by end users.
  – Three of the testers had implementation specific approaches to handling this - should the spec be more explicit.

Many participants expressed the importance of collecting this data at the time of Patient Assessment to enable accurate evaluation of the programs and interventions delivered in a community.
How to Engage with the Gravity IG and Use Cases Tested
1. This is a framework Implementation Guide (IG) and supports multiple domains

2. IG support the following clinical activities
   • Assessments
   • Health Concerns / Problems
   • Goals
   • Interventions including referrals
   • Consent
   • Aggregation for exchange/reporting
   • Exchange with patient/client applications
   • Draft specifications for race/ethnicity exchange

3. STU1 published August 2021

4. STU2 balloted in HL7 January 2022 Ballot Cycle; target Summer 2022 publication

http://build.fhir.org/ig/HL7/fhir-sdoh-clinicalcare/toc.html