Monday

Welcome

Karen Van Hentenryck
Executive Administrative Director
HL7 International
Monday

- CEO Report
- International Council Report
- Brazil: Perspectives on Interoperability Innovation, Digital Health and the G20
- FHIR Accelerator: Argonaut
- FHIR Accelerator: CARIN
- FHIR Accelerator: Vulcan
- Final Announcements
Monday

CEO’s Report

Charles Jaffe, MD, PhD
Chief Executive Officer
HL7 International
Welcome to the May 2024 Work Group Meeting

Chuck Jaffe

Dallas
May 20, 2024
The Role of HL7 in the Development of Consensus Standards for Healthcare
HIGHLIGHTS

• The HL7 Journey
• The HL7 AI Taskforce
• The HL7 Approach to AI
• 5 Collaboration Scenarios
• Next steps
For more than a decade, HL7 workgroups have addressed various aspects of AI, ML, and LLM. It has been sporadic, haphazard, and uncoordinated. That needs to change.
Change Management is about taking well-informed chances.

We probably shouldn’t mess with it.
Opportunities

• Global technology organizations that are committed to utilizing open standards have expressed interest in consensus-based standards development organizations.
• The US government has developed a high-level approach to ethical AI that will be funded by billion dollar commitments.
• Government agencies outside of North America are developing initiatives to fund oversight and enhance fraud prevention.
• Non-government agencies have begun efforts to collaborate with HL7 and its history of and commitment to open standards development for AI tools for testing, tooling, and assurance laboratories.”
“Knowledge is knowing that a tomato is a fruit. Wisdom is not putting a tomato in a fruit salad.”

Paul Miles Kington
HL7 Strategic Approach to AI

• Opportunities are promoted by member organizations or agencies, but development is entirely market-driven.
• New initiatives are promoted only if aligned with demand signals.
• External funding (government or private-sector) helps to define the value proposition.
• Collaboration with external partners defines specific opportunities that proceed when funded.
• Standards and development processes are impacted by government requirements and by regulation.
• Objectives for 2024 are aligned entirely with the ability of HL7 to substantiate financial support and to leverage available human resources.
“I’m not afraid of artificial intelligence. I’m afraid of natural stupidity.”

Albert Einstein
HL7 Strategic Collaboration

• CHAI (Coalition for Health AI)
  • HL7 has become a founding member and has led an initiative for standards development, development process, and testing.
  • CHAI has requested HL7 to provide contributors and work group leaders for evolving initiatives.

• HAIP (Health AI Partnership)
  • HL7 has joined the partnership with the intent of developing standards for ethical AI.

• AIMI (AI in Medicine and Imaging)
  • HL7 is evaluating the role it might play in this collaboration.

• Other collaborations
  • HL7 is committed to developing collaborations on a global scale.
5 Potential AI Projects for 2024 and Beyond
Words Matter

Disclaimer: Yes, this is my local library.
5 Opportunities for Collaboration

• **Provenance:**
  Extend HL7's existing standards framework to facilitate traceability of inputs and outputs in healthcare services delivery.

• **Communication specifications:**
  Extend HL7 standards framework to facilitate interoperable communication of systems, data sets, and AI models used in producing outputs within a healthcare environment.

• **Terminology specifications:**
  Establish standards enabling AI creators to transparently describe and AI users to consume the unambiguous AI development processes, content, and management.

• **Fraud detection & prevention:**
  Establish a framework of additional identifiers for each FHIR Resource to specify the source as well as source of health information attesting to the authenticity of data sets or outputs generated during healthcare documentation.

• **Implementation Guide enhancement:**
  Extend HL7 standards framework to enable GenAI-powered creation and compliance of HL7 Implementation Guides, including the development of Reference Implementations.
“Sometimes the road less traveled is less traveled for a reason.”

Jerry Seinfeld
Next Steps

• An open forum to which everyone is welcome to provide their input will be held this Wednesday, 12:30-1:30 in Stemmons AB.

• Two initiatives will be organized to advance HL7 work streams.
  • Provenance, chaired by David Bray, Dan Vreeman, and Diego Kaminker.
  • Fraud detection & prevention, chaired by David Bray, Janet Marchibroda, and Andy Truscott.

• The HL7 Advisory Council will meet in two locations (Seattle and Cambridge) on July 15 to provide guidance on development opportunities, collaboration partners, and funding sources.
Thank you

JUST COUGH FOR OLD TIME’S SAKE.

cjaffe@HL7.org
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International Council Report

Ron Parker
Co-Chair
Monday

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Monday – Brazil: Perspectives on Interoperability, Innovation, Digital Health and the G20

Guilherme Zwicker Rocha, MD
HL7 Brazil Chair

Ana Estela Haddad
Full Professor University of São Paulo, DMD, PhD; Secretary of Information and Digital Health, SEIDIGI
Monday

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FHIR Accelerator:
Argonaut

Brett Marquard
Project Manager and SME
What is the Argonaut Project?

The Argonaut Project is an implementation community comprising leading technology vendors and provider organizations to accelerate the use of FHIR and OAuth in health care information exchange.
### Technology Vendors
- Accenture
- Allscripts
- Apple
- Athenahealth
- eClinicalWorks
- Epic

### Technology Vendors (cont)
- Google
- Humana
- MEDITECH
- Microsoft
- Optum
- Oracle Cerner

### Provider Organizations
- Intermountain Health
- Mayo Clinic
- Mass General Brigham
- SMART at Boston Children’s Hospital
Prior Initiatives

- SMART App Launch
- Argonaut Data and Document
- Provider Directory
- Scheduling
- CDS Hooks support
- Bulk Data
- Questionnaire and Questionnaire Response
- Clinical Provenance
- SMART Health Links
- Clinical Notes

- SMART Web Messaging
- Clinical Data Subscriptions
- US Core Argonaut - USCDI
- SMART on FHIR Granular Controls
- Patient List
- FHIR Write
- Patient Access Brands
- EHI Export API
- International Patient Access
- SMART Imaging Access
- CDS for PAMA
2024 Projects ‘completed’

- US Core design to support USCDI v4
  - Consistent deployment of USCDI requires, review, testing, and clear FHIR profiles
  - Hosted ‘Granular Controls’ sprint in February
    - US Core 7.0.0 PUBLISHED

- Use Access Brands
  - Develop a recommended format, for servers to publish customer endpoint information
    - User Access Brands and Endpoints PUBLISHED

- Detecting + Reporting changes (_lastUpdated)
  - Hosted 6 calls to refine expectations on the _lastUpdated search parameter
  - Developed and received approval to add guidance to US Core

Projects in flight

- US Core 8 design to support USCDI v5
- FHIR Write – Continuous Glucose Monitoring (CGM)
- Bulk Optimize
# 2024 Project Schedule

<table>
<thead>
<tr>
<th>Jan</th>
<th>Feb</th>
<th>May</th>
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<th>Sept</th>
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<td>2024</td>
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<td>HL7/ONC Broad Public</td>
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<td>FHIR - Write - Lab (Continuous Glucose Monitoring)</td>
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<td>Bulk - Optimizations and Improvements</td>
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**Minis!**

- **Granular Controls**
- **Patient Access Brands**
- **_lastUpdated**
- **Detecting + Reporting changes**

**Explore**
- Subscriptions Feed
- CDS Order Suggestions (Standardize Order Suggestions in FHIR)

**USCDI v5 published!**
"We don’t make the FHIR APIs you deploy, we make them better"
How to Participate

● Review existing designs and comment using HL7 JIRA
● Zulip Chat Channel - Argonaut
● Argonaut Confluence Page

Contacts

○ Gino Canessa
○ Dan Gottlieb
○ Eric Haas
○ Josh Mandel
○ Brett Marquard
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FHIR Accelerator: CARIN

Mark Roberts
Associate
HL7 WGM

CARIN Alliance Updates 2024

Mark Roberts
5/20/24
Introductions

Mark Roberts
Director, Leavitt Partners
Lead, CARIN Alliance
mark.Roberts@leavittpartners.com
Zulip: mark.Roberts@leavittpartners.com
Digital Health Insurance Card IG

- An initiative aiming to enable every provider, payer, and insurance beneficiary in the United States to use a free and open-standards based digital insurance card.
- The Digital Insurance Card will allow individuals to carry their health insurance cards in their digital wallets or print them out, and easily share insurance information with health care providers at check-in.
Latest Updates

- STU Update 1.1.0 to the CARIN Digital Insurance Card Implementation Guide with support for SMART Health Cards (SHC) and SMART Health Links (SHLink) has been PUBLISHED!
- We expect implementations to be a relatively light lift.
- We expect payers to begin issuing digital insurance cards based on this specification in 2024.
SMART Health Cards and Links FHIR IG

Project Description:
- Leavitt Partners will bring SMART Health Cards and SMART Health Links to ballot within HL7's standards development process (expected as a Standard for Trial Use) for the September 2024 Ballot Cycle.

Project Deliverables & Budget:
- Develop a Confluence page for the project.
- Project Scope Statement (PSS) and FHIR IG Proposal development and approval.
- Draft a Continuous Integration (CI) build.
- Lead a track at the May 2024 Connectathon.
- Ensure IG is ready for September ballot and submit NIB.
- Complete Work Group review and ballot QA steps.

<table>
<thead>
<tr>
<th>Milestones</th>
<th>April</th>
<th>May</th>
<th>June</th>
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<tr>
<td>Project Kickoff</td>
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<tr>
<td>Develop a Confluence page for the project.</td>
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<td>PSS and FHIR IG Proposal approved.</td>
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<td>Draft CI build</td>
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<tr>
<td>May 2024 Connectathon</td>
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<td>Ensure IG is ready for September ballot</td>
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<td>Submit NIB</td>
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<tr>
<td>WG review and QA</td>
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</table>
Several states have recently passed or gone live with laws that will require health plans and insurers to provide comprehensive, real-time prescription drug cost and coverage data to patients and providers through standard APIs. Others have not yet gone that far but may look at outcomes in those states and adopt their own laws.

- California
  - SB1419
  - AB 2352
- Texas
  - SB 622
- California
  - SB1419
  - AB 2352
- Colorado
- New York
- Ohio
- Tennessee
- Virginia
Latest Updates

- We held working sessions to discuss what updates might need to be made to the CARIN RTPBC IG to meet these requirements.
- The general consensus is that implementing the current RTPBC IG would fulfill CA and TX requirements.
- We plan to stand up some pilots over the next several months and have 7 organizations already interested in participating. Please let us know if you would like to join.
- RTPBC calls are the 4th Friday 12-1 pm ET (next is May 31st due to Connectathon)
The Interoperability and Prior Authorization Final Rule made over 40 references to the CARIN IG for Blue Button.

CMS updated its recommendation to move from STU 1.1.0 to STU 2.0.0. to meet the requirements of the Patient Access API.

CARIN IG for Blue Button STU 2.0.0 includes dental and vision (vision as part of the professional and non-clinician profile).

CMS said, “. . . if impacted payers use the recommended IGs also listed in Table H3 for the APIs and follow the IGs to specification to build their APIs, they would be conformant with the technical requirements.” Oral and vision claims information is now required as part of the Patient Access API.
A commenter recommended that CMS reaffirm that impacted payers would be compliant with the requirements for the Patient Access and Provider Access, and Payer-to-Payer APIs if they follow the CMS recommended IGs. The commenter also recommended that CMS further explain that the absence of dental and vision claims information in the proposed APIs would not result in payer noncompliance given that the recommended CARIN IG for Blue Button does not include dental and vision claims.

Response: At the time the proposed rule was drafted, the CARIN IG for Blue Button v1.1.0: STU 1 was the latest published version for use. Since then, CARIN IG for Blue Button v2.0.0: STU 2 was released, which indeed includes dental and vision (vision as part of the professional and non-clinician profile). We are therefore modifying our recommendation listed in Table H3 to “HL7 FHIR Consumer Directed Payer Data Exchange (CARIN IG for Blue Button) IG v2.0.0: STU 2.” In addition to the required standards listed in Table H3, if impacted payers use the recommended IGs also listed in Table H3 for the APIs and follow the IGs to specification to build their APIs, they would be conformant with the technical requirements.
CMS requiring US Core IG STU 3.1.1 until this standard expires on January 1, 2026.

CMS said that impacted payers may use updated versions of the standards or IGs such as US Core IG STU 6.1.0 and SMART App Launch IG Release 2.0.0.

CMS will move from United States Core Data for Interoperability (USCDI) version 1, as currently adopted in 45 CFR 170.213, to USCDI v3 on January 1, 2026.
CARIN BB and US Core 6.1.0

- Both IGs have profiles on 5 common resources
  - Patient
  - Coverage
  - Practitioner
  - Organization
  - RelatedPerson
- Will not likely require major changes.
CARIN Blue Button IG and PDex for Prior Authorization

- All impacted payers would need to add Prior Auth EoB resources to meet the Jan 1, 2027 deadline.
- How will patients get their prior authorization information and non-financial EOB information based on the final rule?
- Please join us on **Tuesday Q2 at the PIE/FM WG session** to hear more and participate in the discussion!
Questions?

Mark Roberts
Director, Leavitt Partners
Lead, CARIN Alliance
mark.Roberts@leavittpartners.com
Zulip: mark.Roberts@leavittpartners.com
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FHIR Accelerator: Vulcan

Hugh Glover
Program Manager
Vulcan HL7 FHIR
Monday Breakfast Overview

Last Updated: May 2024
Vulcan in 4 Clouds …

An Accelerator for Clinical Research

Implementation Guides
four published:
• ePI
• Real World Data
• Schedule of Activities
• Adverse Events

Other Projects
• Phenomics
• FHIR to OMOP
• Sample Data
• UDP
• Implementation Bridge

Membership
Vulcan is a Diverse, Global Community with 45 Member Organizations
As of March 2024

Academia
• Duke University
• Johns Hopkins University
• University of Colorado Anschutz Medical Campus

Consortia
• NIH
• FHIR Works
• patientlink

Government
• PhD
• National Institutes of Health (NIH)
• FDA

Implementers
• Fujitsu
• carelane
• Epic

Pharma
• GSK
• Johnson & Johnson
• pfizer

ISDs
• cdllc
• HL7

Others
• OpenClinica
• vendors

Indicates a convening member of Vulcan
The protocol is what drives every detail of a clinical trial. Currently it is managed as PDFs and Word Documents.

Having a machine processable form of the protocol has huge implications across the board.
What if we:

> asked what we can do with our implementation guides?
> gave people an environment to try stitching multiple guides together?
> were end to end focused?

The Vulcan Interoperability Bridge:

• Planning now
• Event in Late 2024

More details at the Vulcan BoF on Wednesday Lunchtime
Vulcan Open Meeting – Wednesday Lunchtime

More details on:

- Implementation Bridge (The VIB!)
- UDP
- Phenomics Exchange Roundtable (May 31st)
- Participating in Vulcan

When:

Wednesday lunchtime – bring your lunch with you 😊

Where:

Salon B
Monday

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Final Announcements

Karen Van Hentenryck
Executive Administrative Director
HL7 International
Meeting Schedule

- General Sessions begin in this room at 8 am through Thursday
- Each day is organized in quarters
  - Q1: 9 -10:30 am  Q2: 11 am -12:30 pm
  - Q3: 1:45 – 3 pm  Q4: 3:30 – 5 pm
- 30-minute breaks
  - 10:30 am & 3 pm
- Lunch is at 12:30 pm each day. Those with an allergy should speak to a server (they may have an alternative meal)
Schedule Changes

Please notify Kirsten & Mary Ann of any schedule changes
(email WGMHelpDesk@HL7.org)
Wireless Access

- Connect to: HL7MAY2024

- Password: HealthLevel7
  - Password is case sensitive
Mobile & Web App – Whova

- Download the mobile app on the App Store or Google Play.

- Access the web app from your laptop: https://whova.com/portal/webapp/mwgm_202405/

- Stay up to date with event announcements, changes, view the site map and meeting agendas.

- If you experience any issues in your meeting rooms, send a message to Ask Organizers Anything under Community.
Evaluations

- Meeting evaluation links were in the welcome letter and will also be sent after the meeting concludes.
- There will be a drawing for $500 towards HL7 Education!

https://www.surveymonkey.com/r/May2024WGM
Thank You to Our Sponsor!

DOGWOOD
Health Consulting
Have a great day!

Monday, May 20, 2024
May Working Group Meeting

Dallas, Texas

Tuesday, May 21, 2024
Welcome

Karen Van Hentenryck
Executive Administrative Director
HL7 International
Tuesday

- May 2025 WGM Promotion, Madrid
- CSIO/DCSIO Report
- CSDO Report
- IHE: Gemini Presentation
- FHIR Accelerator: CodeX
- FHIR Accelerator: Da Vinci
- FHIR Accelerator: FAST
- Final Announcements
Tuesday

May 2025 WGM
Promotion, Madrid

Francisco Perez
HL7 Spain Chair
About HL7 Spain

HL7 Spain began its work 20 years ago and our outreach and training work in Spain is reflected in the massive use of both v2 and FHIR in all healthcare technology projects that are developed in Spain, in which it is always required to have certified people within the work teams.

Spain is the country with the most HL7 certified community in Europe and one of the largest in the world, with more than 800 certificates and around 1000 Certification vouchers acquired to HL7 int. (Last order of 40 new ones last week)

As a consequence of the work of HL7 Spain supporting the regional Govts, the implementation of FHIR in the regions and National Ministry is massive. All projects in Spain since 2020 have mandates to interoperate in FHIR.

We can say that:

SPAIN IS THE MOST SUCCESSFUL COUNTRY IN FHIR REAL IMPLEMENTATION IN THE WORLD!
Government Support

HL7 Spain has been working to have the government and political support independently of the sign/party of the government at national and regional levels.

So, a part of having the recognition of HL7 with regulations to improve the use of HL7 v2.x and FHIR, they want to participate actively in the spread of Spain’s successful model.

For the Madrid WGM, HL7 Intl and HL7 Spain will host a Regional Govts meeting to analyze and show to the international HL7 community these multiple HL7 v2/FHIR projects.

Here is the meeting of HL7 with Madrid Health Minister Fatima Matute, last March in Madrid.
FHIRE-BASED EXAMPLES IN MADRID

Corporate data lake based on FHIR standards for the transformation and consumption of information.

Healthcare Data on the Platform: June 2022

- Pacientes: 12,057,649
- Codificación: 2,643,519
- Código Enfermería: 1,560,647,807
- Constantes: 3,312,625
- Electrocardiograma: 1,079,968
- Episodios: 971,347
- Evaluación Primaria: 957,355
- Evaluación Secundaria: 905,523
- NIC: 618,236
- NOC: 386,783
- Observaciones Clínicas: 957,208
- Prescripciones: 15,447
- Tratamientos: 955,589

- Volumen de datos genómicos almacenados: 190 TB
- Muestras secuenciadas: +8,000
- Estudios genómicos: +15,000.

FHIR-BASED EXAMPLES IN MADRID

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- Analíticas de Microbiología: 52,426,266
- Antecedentes: 27,462,285
- Comentarios de Episodio: 597,984,737
- Contactos: 1,382,644,340
- Episodios: 287,806,116
- Interconsultas: 56,512,741
- Protocolos: 3,796,487,965
- Radiología: 18,068,895

Prescripciones: 220,530,002
Facturas: 620,814,508
Dispensaciones: 581,484,182

- Altas: 340,076
- Ingresos: 1,954,876
- Indicadores en Tiempo Real: 148,482,715
- Alertas SISPAL: 5,835,885

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CMAG

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- Notas de Progreso: 74,664,796
- Observaciones Clínicas: 989,809,657
- Prescripciones Administradas: 78,381,822
- Resultados de Laboratorios: 479,249,581
- Intervenciones Quirúrgicas: 112,722
- Planificación de Quirófanos: 782,889

HIS Tipo 2
- Codificación: 15,105,948
- Episodios: 59,790,574
- Prescripciones Administradas: 31,342,908
- Comorbilidades: 3,360,248
- Pedidos Laboratorios: 61,523,065
- Síntoma: 20,271,502
- Intervenciones: 2,878,018

FHIR-BASED EXAMPLES IN MADRID

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FHIR-BASED EXAMPLES IN MADRID

ZEUS, Clinical History Station based on FHIR archetypes for storage and interoperability.

Example of event-based integration

Clinical history station in ZEUS.
Un fallo en la web de la Sanidad de Madrid deja al descubierto los datos del rey, Pedro Sánchez o Aznar

La Comunidad de Madrid tumba el portal del certificado COVID, donde un error revelaba el nombre, teléfono y dirección de cualquier ciudadano introduciendo su DNI en la url.

— Madrid deja al descubierto datos personales de cientos de miles de pacientes con su sistema de autocita para la vacuna

El error de ciberseguridad de Madrid desvela desde los datos de tu vecino a los del rey Felipe VI o Pedro Sánchez

Miles de datos privados de miles de residentes de Madrid quedan al descubierto por un fallo de seguridad de algunas páginas web de la sanidad madrileña
EXAMPLES OF PROJECTS

MINISTERIO DE SANIDAD EN ESPAÑA.

TERMINOLOGY SERVER FOR SNOMED – CT AND (CIE-9-MC, ICD-10, CIE-10-ES, CIE-10-PCS, CIEO-3, CIAP-2 and ATC).

VENUE

HOTEL RIU PLAZA ESPAÑA


MADRID DOWNTOWN
HOTEL RIU PLAZA ESPAÑA

The Hotel Riu Plaza España, located in the emblematic Edificio España on Madrid’s Gran Vía, has 27 floors with a wide range of facilities to make your stay a memorable experience. This hotel on the Gran Vía offers free WiFi throughout the hotel, a Sky Bar with breathtaking views of the city and conference rooms for holding your best events.

SEE MORE
HOTEL RIU PLAZA ESPAÑA

The hotel offers:
582 guest rooms from 20m².
16 conference and meeting rooms with capacities for up to 1,500 persons, Total of 32,291.73 sq ft (3,000 m²).
Gym with complete range of sports equipment, free of charge.
Outdoor swimming pool located on the 21st floor, open in summer.
"360º" Rooftop bar on the 27th.
"360º" Sky bar located on the 26th floor.
"El Edén" Gastrobar located on the 26th floor.
Hotels in the area

There are many hotels of 3, 4 or 5 stars in a walking distance from Plaza España Square if you want to extend your visit and take some holidays.

Here is a Google Maps of the area with some pricing and location of Hotels.

As you can see there is also a Metro station at the Hotel door.
Special Webpage for HL7 WGM attendees

www.hl7goestomadrid.com

www.madridonfhir.com
CONTACT

Francisco Javier Pérez Fernández

presidente@hl7spain.org
fperezfernand@gmail.com
Tuesday

- May 2025 WGM Promotion, Madrid
- **CSIO/DCSIO Report**
- CSDO Report
- IHE: Gemini Presentation
- FHIR Accelerator: CodeX
- FHIR Accelerator: Da Vinci
- FHIR Accelerator: FAST
- Final Announcements
Tuesday – CSIO/DCSIO Report

Viet Nguyen, MD
Chief Standards Implementation Officer
HL7 International

Diego Kaminker
Deputy Chief Standards Implementation Officer
HL7 International
Standards Implementation Division

Brief Report May 2024

Viet Nguyen, MD
HL7 CSIO
viet@hl7.org

Diego Kaminker
HL7 DCSIO
diego@hl7.org

Disclaimer: In all our activities we involve our CSDO, Dr. Dan Vreeman. We work together. We do not mention it in every slide.
Agenda

1- Ecosystem Foundry
2- Program Management
3- Community Outreach
4- Best Practices / Patient Engagement
5- Education
6- Global Outreach
What did we promise? HL7 International 3-Year Plan 2022
https://projectlifedashboard.hl7.org/plan/#S03

HL7 Standards Implementation Division (Diego Kaminker)

The FHIR Foundry
We will create an open ecosystem platform, called the FHIR Foundry, where anyone in the world can discover, test, try, and install for themselves working reference implementations of the HL7 specifications.

Building on the success of FHIR sandbox environments, we will create an integrated environment for the global community.

Reference Implementations
Find, use, and combine reference software implementations for client apps and servers that implement various HL7 FHIR specifications.

Sample Data
Leverage robust sample data to test specifications across their range of functionality, free from the security or privacy.

Test Scenarios
Run and evaluate test scenarios natively in the ecosystem or on other platforms like Inferno or Touchstone.

Anticipated Outcomes
1. Outreach and Discovery: The FHIR Foundry will be the recognized place where anyone in the world (including those with limited technical skills) can find and try out all of the reference implementations for FHIR specifications.
2. Continuous Testing: Beyond Connectathons and dedicated events, the FHIR Foundry will enable implementers to tests client applications and servers against reference implementations and test engines with robust sample data at any time.
3. Increasing Standards Development Rigor: Over time, the expectations of HL7 standards development will mature to include the development of reference implementation software deployed in the FHIR Foundry as part of the Quality Assurance and Publication processes.
The HL7 FHIR FOUNDRY
A place where anyone in the world can discover, test and try RIs for HL7 Specs

GALLERY
https://foundry.hl7.org/

01-DISCOVER
Search projects by technology, role, description or category/domain KNOW MORE!
What can I do using FHIR in Genomics?
How can I manage provider registries?

02-TRY
Use a client RI
Can I try an app to see what it actually MEANS to implement this for the end user?
Re-Use / Learn from the Source Code

03- TEST
Use the RI Server
Can I try my own client against a known server?

Want your project to be included?
https://forms.gle/dtw978f5XTGxk4G96
or by email: diego@hl7.org

Roadmap: Project download / auto-setup / submission
The HL7 FHIR FOUNDRY

A secure, HL7 managed place where we can install and run RIs for HL7 Specs

HOSTING
https://cd.hl7.org/

Server-less, container-based environment to host reference implementation (RI) clients and servers

Want your project to be included? *
Contact Karen karenvan@hl7.org

*Currently Limited to Accelerators

Roadmap: Shared Services, Ecosystem: Security, Terminology, mini EHR

RI Good Practices:
https://tinyurl.com/rigoodp
- Participating in AHIP/Civitas Demographic Data Project - Phase 1 Ready
- Standardizing Accelerator Operations - Transforming Accelerator Handbook Presentation into a Word Document
- Device Accelerator Prospect Progressing
Community Outreach

- Participation in DevDays 2024 / USA
- Organizing Security Event II / Open Source Event
- Finished FHIR Community Process (FCP) with FHIR Product Director and CSDO
Q1 2024/ Working on:

- FHIR Reference Implementation Playbook (published)
- FHIR Security Handbook
- FHIR Provenance Use Project
Education

- Credentialing Program
  - Pilot Test (107 participants) [https://www.hl7.org/training/fhir-exam.cfm](https://www.hl7.org/training/fhir-exam.cfm)
  
  - Finishing Evaluation

Creating the first Advanced Test:
FHIR Developer
Global Outreach

- Updates from Helina/Africa: elearning + f2f training + pan African event “African FHIR Connectathon” / Q3 or Q4
- AeHIN Regional Network - Agreement Signed
- Affiliate for Central America – BOD Approved
- Affiliate for Ecuador – BOD Approved
Locating them in the World Map

- Green: Current affiliates
- Yellow: Proposed New Affiliates
- Cyan: Regional Partners: Helina / Africa, AeHIN: Proposed for SE Asia

Costa Rica, El Salvador, Guatemala, Honduras, Panama, Dominican Republic, Nicaragua? Belize?

Bangladesh, Bhutan, Cambodia, Indonesia, Malaysia, Hong Kong*, Lao PDR, Maldives, Mongolia, Nepal, Sri Lanka, Phillipines*, Taiwan*, Thailand, Vietnam
WGM+ Atlanta / Sep.21-Sep.27 2024

- 38th Annual Plenary, WGM+ and HL7 FHIR Connectathon
- **Monday and Tuesday (1/2 day): WGM+ Sessions – No WG Meetings**
- Theme:
  - Building Futures, Bridging Borders: the Intersection of AI and Global FHIR Innovation
  - Including a FHIR Apps Roundtable

- OMNI Atlanta, GA
Thank You
Tuesday

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- CSIO/DCSIO Report
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- FHIR Accelerator: CodeX
- FHIR Accelerator: Da Vinci
- FHIR Accelerator: FAST
- Final Announcements
Tuesday

CSDO’s Report

Daniel Vreeman, DPT
Chief Standards Development Officer
HL7 International

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CSDO Report

HL7 Working Group Meeting
2024 05 21

Daniel J. Vreeman, PT, DPT, MS, FACMI, FIAHSI
Chief Standards Development Officer
HL7 International
EXPLORING HEALTHCARE INTEROPERABILITY

Podcast hl7

SCIENCE

A podcast about Healthcare Interoperability presented by Ed Hammond and Diego Kaminker

Episodes

11/30/2023
Episodio 19 - Davera Gabriel (USA)
Director for Terminology Management / Johns Hopkins University / Biomedical Informatics & Data Science HL7 Terminology Services Management Group (TSMG) / HL7 Vulcan Accelerator Operations Committee Vulcan FHIR-to-OMOP co-Lead / OHDSI OMOP + FHIR Working Group Lead / OHDSI CDM Vocabulary Working Group Liaison to...

11/24/2023
Episodio 18 - Kate Ebrill - Interoperability Lead AEHRC CSIRO FAIDH
Experienced executive with a demonstrated history of working in the health care industry. Skilled in government procurement, digital strategy, healthcare information technology (HIT), program development, change
2d ago: The Flaming Lips - Do You Realize??: The Flaming Lips formed in Oklahoma City in 1983. Over the last four decades, they've put out 16 albums. In 1999, they put out their album The Soft Bulletin, and that brought them a new level of success. And then, in 2002, they followed it up with Yoshimi Battles the Pink Robots, which was their biggest album to date.
73 of 267

People who submitted comments on HL7 specifications were NEW!

2024 (YTD)
57 Project Facilitators on 70 active projects (in Jira)
124 Track Leads enabling 68 tracks at 2 Connectathons
151 Co-Chairs and management group members serving 39 governance bodies
Now’s your opportunity.

Accepting leadership nominations through June 15.

hl7.org/participate/elections.cfm
Full (and future) updates here

hl7.me/updates
Tuesday

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Tuesday – IHE: Gemini Presentation

Daniel Vreeman, DPT
Chief Standards Development Officer HL7 International

Jürgen Brandstätter
IHE International Board Member
HL7: IHE Project Gemini

HL7 Working Group Meeting
May 2024

Daniel J. Vreeman, PT, DPT, MS, FACMI, FIAHSI
Chief Standards Development Officer at HL7

Jürgen Brandstätter, MSc
IHE International
A longstanding collaboration

Background
Twins, bridging, moonshot
Focus: advancing FHIR
Established circa 2018, refreshed 2022

Why GEMINI?
• Both orgs seek agility as FHIR spreads
• Close the gap between having a standard and widespread use
• Accelerating more complete standards “packages” for the industry
• Join forces to pull together capabilities from both groups
Gemini Coordination

Oversight by a joint Steering Committee

Communicate and promote collaboration

Identify common priorities

Connect leaders across organizations

Create plan using people, resources, processes of both organizations
How Gemini Projects work

Project accepted for Gemini by Steering Committee

Products hosted in either IHE or HL7

Standards governance sits with host entity

Participants from both organizations are welcome

Publishing as it’s done in the host entity

Every output gets the GEMINI logo and value statement
A true collaboration: a common vision, mutual respect, and shared credit
SDO community

Joint working groups within HL7 and IHE

SDO Community

Country / Global Entity

Requirements

• Whitepaper
• IHE Profile(s) / IG(s)
• Test tools
• Connectathons
• Tested products

All a country needs to create their national specifications as efficient as possible

Implementation

Requirements
Current Projects

Device Interoperability using SDPi+FHIR
Service-oriented Device Point-of-care Interoperability (SDPi) Technical Framework

FHIR Multi-domain HIE Architecture
Develop guidance on using the FHIR API that allows intermediaries to be deployed with

Medication Prescription and Delivery
Create FHIR-based IHE Profile for medication prescription and delivery workflow
Future Gemini Projects

IHE PALM

HL7 Lab

FHIR Resources

IG

Testing

European EHRxF

Other SDOs involved as well
Thank You
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FHIR Accelerator: CodeX

Saneel Vasram
CodeX Program Manager
HL7® FHIR® Accelerator Update

May 2024

https://www.hl7.org/codex/
https://confluence.hl7.org/display/COD/CodeX+Home
Core Team & Focus Areas (PMO@hl7codex.org)

**Saneel Vasram**  
Program Director  
- Strategic initiatives & planning  
- Governance  
- Membership

**Susan Rand**  
Program Manager  
- Use Cases  
- Finances  
- Operations

**Susan MacKirdy**  
Program Support  
- Scheduling  
- Communications  
- Support

Dogwood Leadership Team & Standards Expertise

**Michael van Campen**, CEO  
- Vulcan Accelerator PM  
- Standards expert  
- Digital health strategies

**Jean Duteau**, CTO  
- HL7 TSC Chair  
- Vulcan & Da Vinci Technical Lead  
- CDA, V2, V3 & FHIR expert

**Lloyd McKenzie**, CSDO  
- FHIR MG Co-chair  
- Gravity & Da Vinci Advisor  
- V3 & FHIR expert

**Louise Brown**, CBDO  
- V2 expert  
- Change management specialist

“Experts in solving the challenges of sharing health information”
1 Accelerator = Multiple Clinical Specialties

HL7 FHIR Accelerator

A Member-driven community accelerating interoperable data modeling and implementation around CodeX HL7 FHIR standards, such as mCODE, leading to substantial improvements in health care and research in cancer, cardiovascular health, genomics and beyond.
# CodeX Members (April 2024)

<table>
<thead>
<tr>
<th>PREMIER</th>
<th>PRINCIPAL</th>
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<tbody>
<tr>
<td>Alliance for Healthcare Technology</td>
<td>Cancer Action Network™ American Cancer Society</td>
</tr>
<tr>
<td>American Association of Physicists in Medicine</td>
<td>Syntropy</td>
</tr>
<tr>
<td>ASTRO American Society for Radiation Oncology</td>
<td>Myriad genetics</td>
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<td>EVERNORTH Health Services</td>
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<td>HL7 International</td>
<td>Varian</td>
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<td>MITRE</td>
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<td>ontada</td>
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<td>Pfizer</td>
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<td>UnitedHealthcare</td>
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<thead>
<tr>
<th>BENEFACCTOR</th>
<th>GOVERNMENT AGENCY</th>
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<tbody>
<tr>
<td>Abbott</td>
<td>U.S. Food &amp; Drug Administration</td>
</tr>
<tr>
<td>AMA American Medical Association</td>
<td>National Institutes of Health</td>
</tr>
<tr>
<td>American College of Cardiology</td>
<td>National Cancer Institute</td>
</tr>
<tr>
<td>ASCO American Society of Clinical Oncology</td>
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<tr>
<td>BIOTRONIK excellence for life</td>
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<tr>
<td>Boston Scientific</td>
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<td>CIBMTR</td>
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<td>Epic</td>
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<td>Foundation Medicine®</td>
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<td>Heart Rhythm Society</td>
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<td>MCSP Michigan Cancer Survival Program</td>
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<td>Medtronic</td>
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<td>NCQA</td>
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<td>Oracle</td>
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<td>Telligen</td>
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<td>TEMPUS</td>
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<thead>
<tr>
<th>SPONSORED MEMBER</th>
<th>DEVELOPER/IMPLEMENTER</th>
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<tbody>
<tr>
<td>AMGEN</td>
<td>AVOMD</td>
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<td>CANPASS</td>
<td>Cancer Insights</td>
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<tr>
<td>Compilis</td>
<td>CENTANNI PARK</td>
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<tr>
<td>Cochrane Collaboration</td>
<td>edifecs</td>
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<tr>
<td>cdisc</td>
<td>Elekta</td>
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<tr>
<td>NRG Oncology</td>
<td>elimu informatics</td>
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<tr>
<td>OCME</td>
<td>GRAPHITE</td>
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<td>OCPM</td>
<td>GuidelineCentral</td>
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<td>PatientLink</td>
<td>infoWorks</td>
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<tr>
<td>ONCOClinical Trials</td>
<td>iHealthcare Collaborative</td>
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<td>ONCO Medical</td>
<td>infoWorks</td>
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<td>Oncor</td>
<td>iHealthcare Collaborative</td>
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<tr>
<td>Otsuka America Pharmaceutical, Inc.</td>
<td>iHealthcare Collaborative</td>
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<tr>
<td>PatientLink</td>
<td>iHealthcare Collaborative</td>
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<td>PheノTips</td>
<td>iHealthcare Collaborative</td>
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<tr>
<td>Principia Health Sciences</td>
<td>iHealthcare Collaborative</td>
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<td>Quantum Leap Healthcare Collaborative</td>
<td>iHealthcare Collaborative</td>
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<td>Syneos Health</td>
<td>iHealthcare Collaborative</td>
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<tr>
<td>UBC</td>
<td>iHealthcare Collaborative</td>
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CodeX | Proprietary and Confidential
Use Cases

The CodeX framework spurs community-driven use case development and demonstration, piloted in-the-field by stakeholders expected to benefit in the future.

Each CodeX Use Case progresses through three stages of development.

- **In Discovery**
  - Cardiac Implantable Electronic Devices (CIED)

- **In Planning**
  - Genomics Operations
  - Risk Evaluation and Mitigation Strategies
  - Quality Measures for Cancer

- **In Execution**
  - EHR Endpoints for Cancer Clinical Trials (ICAREdata)
  - Integrated Trial Matching for Cancer Patients and Providers
  - Cancer Registry Reporting
  - Radiation Treatment Therapy Data for Cancer
  - Prior Authorization in Oncology
  - Genomics Data Exchange
  - CardX Hypertension Management
Use Cases with FHIR Standards in Use

In Use defined as the standard is past testing and has been exercised in a Proof of Concept (POC), a Pilot or is in Production.

- Prior Authorization in Oncology
- Quality Measures for Cancer
- Cancer Registry Reporting
- Integrated Trial Matching for Cancer Patients and Providers
- Genomics Data Exchange
- EHR Endpoints for Cancer Clinical Trials (ICAREdata)
- Radiation Treatment Therapy Data for Cancer

Join us at our BOF Session!

*TODAY*

5:15-7:00PM @ SALON F
## CodeX-Supported Standards Driving Real World Impact

<table>
<thead>
<tr>
<th><strong>Cancer</strong></th>
<th>mCODE IG</th>
<th><a href="http://hl7.org/fhir/us/mcode/">http://hl7.org/fhir/us/mcode/</a></th>
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<tbody>
<tr>
<td>[Checkmark]</td>
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<tr>
<td><strong>Impact</strong></td>
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<tr>
<td>1. Routine use in patient care at Mayo, U of Wisconsin, Oncoclinicas</td>
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<tr>
<td>2. &gt;45% US patients covered by vendors supporting mCODE</td>
<td></td>
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<tr>
<td>3. Significant increase in availability of data essential for cancer care</td>
<td>1, 2 Dienstmann et.al, multiple publications</td>
<td></td>
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<tr>
<td>4. Enhanced real-world estimates of progression-free survival</td>
<td></td>
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<tr>
<td>5. Feasibility studies demonstrating significant increase in patient clinical trial matching rates</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6. Referenced in proposed USCDI+ Quality Data Element List, CMS Enhancing Oncology Model</td>
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<tr>
<td><strong>Impact</strong></td>
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<td></td>
</tr>
<tr>
<td>1. CodeX Radiation Therapy Implementation Guide (RT IG) was published in July 2023</td>
<td></td>
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<tr>
<td>2. US radiation oncology information system vendors supporting 80% of North American treatment sites are adopting mCODE RT profiles and the RT IG</td>
<td></td>
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<tr>
<td>3. Added 312 RT-related SNOMED CT codes to the Global Patient Set. These codes are now publicly available for international use.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Genomics</strong></th>
<th>Genomics Reporting IG</th>
<th><a href="https://build.fhir.org/ig/HL7/genomics-reporting/">https://build.fhir.org/ig/HL7/genomics-reporting/</a></th>
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<tr>
<td><strong>Impact</strong></td>
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<td></td>
</tr>
<tr>
<td>1. Routine use for patient genomic diagnostic data exchange in Germany</td>
<td></td>
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<tr>
<td>2. Supporting multiple laboratories in driving towards a minimum viable product of FHIR-based genomics testing reports</td>
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<tr>
<td>3. Collaboration on genomic test reporting across US healthcare and England’s NHS</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Cardiovascular Health</strong></th>
<th>CardX Hypertension Management Use Case IG</th>
<th><a href="https://build.fhir.org/ig/HL7/cardx-ig/index.html">https://build.fhir.org/ig/HL7/cardx-ig/index.html</a></th>
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<tr>
<td><strong>Impact</strong></td>
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<td></td>
</tr>
<tr>
<td>1. Supported advancement of Average Blood Pressure into USCDI v4</td>
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<tr>
<td>2. Major US cardiovascular societies are now members, and American College of Cardiology (ACC) is moving its data standards work to CardX</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Risk Evaluation and Mitigation Strategies (REMS)</strong></th>
<th>US Medication Risk Evaluation and Mitigation Strategies (REMS) FHIR IG</th>
<th><a href="https://build.fhir.org/ig/HL7/fhir-medication-rems-ig/">https://build.fhir.org/ig/HL7/fhir-medication-rems-ig/</a></th>
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<tr>
<td><strong>Impact</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Growing a strong and engaged community including industry and government</td>
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<tr>
<td>2. Initiating sub pilots based on an existing prototype.</td>
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<tr>
<td>3. STU 1 Ballot</td>
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<tr>
<td>4. US FDA as champions working with growing membership base to help drive out next steps and impact.</td>
<td></td>
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</tr>
</tbody>
</table>

IG = Implementation Guide
Scale with Aligned Federal Initiatives

- **White House Cancer Moonshot** supported by mCODE and CodeX

- **OSTP** and ARPA-H noted CodeX as an important partner in strengthening the nation’s clinical trial infrastructure, ACTR

- **President’s Cancer Panel** noted the importance of mCODE in their recommendations for NCI’s National Cancer Plan

- **CMS** using mCODE in their Enhancing Oncology Model

- **FDA** championing CodeX REMS Integration Use Case

- **CDC’s** use of mCODE for Central Cancer Registry Reporting IG

- **ONC’s** US Core Data For Interoperability (USCDI) + Cancer is aligned with mCODE

- **ONC** included select mCODE data elements in their USCDI+ proposed Quality Data Element List
Build and Innovate on Our Work

We enable high-quality computable data using HL7 and FHIR standards to create a common language for clinical specialty domains in cancer, genomics, and cardiovascular health

GET ENGAGED

CodeX hosts a regular Community of Practice event to keep our community informed and engaged, and to make sure the public’s opinions are heard. We also hold Public Calls to give updates on ongoing CodeX use cases.

Attend Upcoming Events:
https://confluence.hl7.org/display/COD/CodeX+Calendar

EXPAND OUR REACH

There are currently over 250+ stakeholders involved in CodeX. We are looking to expand our membership and to partner with new health systems in our pilots. Spread the word and get involved as a CodeX Member!

Share our site: https://codex.hl7.org/
Become a Member: email CodeX@hl7.org

SUPPORT OUR MISSION

Funding from foundations, philanthropies, and government organizations will allow us to further scale and drive maximum adoption across systems. Please reach out about interesting opportunities that may apply to CodeX.

Email CodeX@hl7.org

Join our mailing list codex.hl7.org
Tuesday

- May 2025 in Spain
- CSIO Report
- CSDO Report
- IHE: Gemini Presentation
- FHIR Accelerator: CodeX
  - FHIR Accelerator: Da Vinci
- FHIR Accelerator: FAST
- Final Announcements
FHIR Accelerator: Da Vinci

Alix Goss
Da Vinci PMO
VBC Programs Drive Focus to Patient Outcomes

Da Vinci members are industry leaders and health IT technical experts who are working together to accelerate the adoption of HL7 Fast Healthcare Interoperability Resources (HL7® FHIR®) as the standard to support and integrate value-based care (VBC) data exchange across communities.

VBC programs enable providers to see right data at right time for specific patient coverage, benefits and care coordination.

Focus:
Use cases linked to high volume, manual activities that would benefit from automation of portions of the workflow that collect and exchange critical data to improve outcomes.

Da Vinci Project: Why
Use Case & IG Readiness

Clinical Data Exchange
- Payer Coverage Decision Exchange
- Clinical Data Exchange (CDex)
- Payer Data Exchange (PDex)

Coverage, Transparency & Burden Reduction
- Coverage Requirements Discovery (CRD)
- Documentation Templates and Rules (DTR)
- Prior-Authorization Support (PAS)

Foundational Assets
- Member Attribution List
- Notifications
- Health Record Exchange (HRex)
- Postable Remittance

Quality & Risk
- Value Based Performance Reporting (VBPR)
- Data Exchange for Quality Measures/Gaps In Care (DEQM/GIC)
- Risk Adjustment (RA)

* Referenced in or supports Federal Regulation
◆ Aligned with expected Federal Regulation
+ Guide Paused and Core Functionality moved to PDex

Dial denotes progress in current STU Phase

Overall Maturity:
- Most Mature
- Active Growth
- Least Mature

Da Vinci 2024 Program Priorities

Da Vinci Core Functions

Use Cases:
- Postable Remittance Use Case New
  - Duplicate Remit (835 or paper) Request via FHIR
  - Discovery completed; use case launch Q2 2024
- Updates related to final regulations
  - ONC HTI-1
  - CMS 0057
- Tackle enhancements:
  - Clinical Query Language (CQL) templates/use
  - Add scenarios to existing guides
- Implementer support
  - Support piloters/implementers
  - Coordinate with industry (FAST, Sequoia, NCQA)
  - Initial focus CDex/PDex, Prior Auth, Patient Cost Transparency (PCT)

Industry & Policy Impact
- Build awareness and transparency of FHIR adoption progress and success metrics from early adopters
- Provide implementer support for IGs named in regulations
- Continue to evangelize and provide thought leadership across Da Vinci community and key industry organizations e.g., AAFP, CMS, HIMSS, HL7, ViVE, WEDI
  - Prioritize member journey, results from implementation as focus
  - Introduce newest guides and opportunities to engage
  - Provide visible home for providers, payers and vendors to share their progress across guides and find each other
  - Grow and advance content and breadth of Community Roundtable, Case Studies

Da Vinci Resources:
Da Vinci In Action: https://confluence.hl7.org/display/DVP/Da+Vinci+In+Action+Interactive+-+Implementations+To+Date
Da Vinci YouTube Channel: https://www.youtube.com/watch?v=wa9bCw6EEKA&t=2s
Industry statements: https://confluence.hl7.org/display/DVP/Da+Vinci
The intent of this project is to create a Postable Remittance (Remit) FHIR API to retrieve a copy of a previously issued remittance. Rather than going to a number of different payer/clearinghouse portals or making phone calls to payers, this API is intended to make it simpler for providers/vendors to retrieve a copy of the already issued remittance.

In scenarios where remits are missing due to any reasons, providers/vendors can request a copy of an already issued 835 or paper remit via the API, and payers/clearinghouses will respond with an attachment which is the copy of the HIPAA compliant 835 or pdf of a paper remit that the payer/clearinghouse already issued.

Sponsoring Workgroup: Payer/Provider Information Exchange Work Group (PIE)

Co-sponsoring Workgroup: Financial Management

Project Proposal: [https://jira.hl7.org/browse/PSS-2374](https://jira.hl7.org/browse/PSS-2374)

Project Space: [https://confluence.hl7.org/pages/viewpage.action?pageId=230557166](https://confluence.hl7.org/pages/viewpage.action?pageId=230557166)
HTI-1 Final Rule: Health Data, Technology, and Interoperability: Certification Program Updates, Algorithm Transparency, and Information Sharing

<table>
<thead>
<tr>
<th>USCDI v1 (July 2020 errata)</th>
<th>USCore 3.1.1</th>
<th>Expires on Jan 1, 2026</th>
</tr>
</thead>
<tbody>
<tr>
<td>USCDI v3</td>
<td>USCore 6.1.0</td>
<td>Only USCDI v3 will be available in the Program as of January 1, 2026</td>
</tr>
</tbody>
</table>

Work in progress within Da Vinci and collaboration with HL7

- Thanks to Lloyd McKenzie, Yan Heras and the Da Vinci IG leads

https://confluence.hl7.org/pages/viewpage.action?pageId=227219877
Identify opportunities to efficiently support Questionnaires

- Retrieving an initial set of data from the EHR that will meet the needs of the population and/or flow control processes in a manner that’s as efficient as possible
- Retrieving additional sets of data when the data to be retrieved is determined by user-provided answers to questions
- Managing flow control
- Best practices

Join us to learn more at Da Vinci’s Birds of a Feather:

Tuesday, Q5: Salon C
Da Vinci and others are exploring Piloting opportunities

Initial focus in two areas:

• Trebuchet: Accelerate FHIR adoption and scaling of FHIR APIs
• Patient Cost Transparency

Join us to learn more at Da Vinci’s Birds of a Feather:

Tuesday, Q5: Salon C

Da Vinci Trebuchet Objectives:

• Launch Da Vinci implementation guides into production
• Demonstrate the value of networked health data exchanges
• Ensure that standards-based solutions and technical requirements are informed by real-world implementation
• Develop a playbook for enabling pilots that support scalability
Congratulations to the 2023 Community Champions

- **Karen Ashton**, Director, Population Health Digital Solutions, MultiCare Health System
- **Hans Buitendijk**, Senior Director, Interoperability Strategy, Oracle Health
- **Daniel Cawood**, Senior Manager, Product Management, MCG Health
- **Naomi Miao**, Business Operations Manager, athenahealth
- **Linda Michaelsen**, Director, Healthcare Interoperability Standards, Optum
- **Alexandra Mugge**, Chief Health Informatics Officer, and Director of Health Informatics and Interoperability Group (HIIG), Centers for Medicare & Medicaid Services
- **Sreekanth Putam**, Chief Technology Officer, Mettle Solutions
CALL TO ACTION – 2024

• Implement the Da Vinci guides, share your progress, and find partners
  ✓ Da Vinci In Action Interactive – Implementations to Date:
    https://confluence.hl7.org/display/DVP/Da+Vinci+In+Action+Interactive+-+Implementations+To+Date

• Participate in weekly calls
  ✓ Provide implementation feedback
  ✓ Ask questions
  ✓ Help us improve the guides

• Help us test!
  ✓ Participate in Connectathons
  ✓ Join the Pilots and related discussions
Da Vinci Use Case Working Sessions – Join Us!

### Use Case Schedule

<table>
<thead>
<tr>
<th>Use Case</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value Based Performance Reporting (VBPR)</td>
<td>Mondays at 2pm Eastern</td>
</tr>
<tr>
<td>Postable Remittance</td>
<td>Tuesdays at 2pm Eastern (New!)</td>
</tr>
<tr>
<td>Burden Reduction</td>
<td>Wednesdays at 11am Eastern</td>
</tr>
<tr>
<td>Patient Cost Transparency (PCT)</td>
<td>Wednesdays at 12pm Eastern</td>
</tr>
<tr>
<td>Notifications</td>
<td>First Wednesday of each Quarter</td>
</tr>
<tr>
<td></td>
<td>1pm Eastern (6/5/24)</td>
</tr>
<tr>
<td>Clinical Data Exchange (CDex)</td>
<td></td>
</tr>
<tr>
<td>Health Record Exchange Framework (HRex) included</td>
<td>Wednesdays at 2pm Eastern</td>
</tr>
<tr>
<td>Member Attribution List (ATR)</td>
<td>Wednesdays biweekly at 3pm Eastern</td>
</tr>
<tr>
<td>Trebuchet FHIR Pilots</td>
<td>Thursdays biweekly at 2 pm Eastern</td>
</tr>
<tr>
<td></td>
<td>(New!)</td>
</tr>
<tr>
<td>Risk Adjustment (RA)</td>
<td>Thursdays at 3pm Eastern</td>
</tr>
<tr>
<td>Payer Data Exchange (PDex, Formulary, PlanNet)</td>
<td>Fridays at 1pm Eastern</td>
</tr>
</tbody>
</table>

### Conference Call Sign Up

- **HL7 Conference Call Center** - check the HL7 calendar for cancellations/changes!
- **Da Vinci Conference Call Sign Up Instructions**
- **Note:** There is no invitation, add to your own calendar
- **HL7 Da Vinci General Inquiries:** DaVinciPMO@pocp.com

### Sign Up for Da Vinci Community Roundtable and News:

- [https://confluence.hl7.org/display/DVP/Da+Vinci+Welcome](https://confluence.hl7.org/display/DVP/Da+Vinci+Welcome)
- [https://chat.fhir.org/#narrow/stream/179283-Da-Vinci](https://chat.fhir.org/#narrow/stream/179283-Da-Vinci)
DA VINCI 2024
MULTI-STAKEHOLDER MEMBERSHIP

PROVIDERS

EHRs

Payers

VENDORS

INDUSTRY PARTNERS

The above listed Blue Cross and Blue Shield companies are independent licensees of the Blue Cross and Blue Shield Association.
Rev 04/09/24

https://confluence.hl7.org/display/DVP/Da*Vinci*Project*Members

*Indicates a founding member of the Da Vinci Project.
Organization shown in primary Da Vinci role. Many members participate across categories.
Real world progress across implementers demonstrating improvement and benefit of automating critical workflows for provider and payer teams.

Shift driven by ONC and CMS coordinated acceleration to shift the industry to APIs across functional areas across Providers, Payers and Vendors.

Why Now, What is Different?

Convergence of Policy, Technology and Industry Alignment

Payers and Providers include clinical data sharing as base contract agreement with reality being better tools to scale. Shared agreement to do this with standards.

Real world value achieved by implementers demonstrating improvement and benefit of automating critical workflows for provider and payer teams alike.
HL7 Da Vinci General Inquiries: DaVinciPMO@pocp.com

HL7 Da Vinci Program Contacts:

Jocelyn Keegan,
Da Vinci Program Manager
Jocelyn.Keegan@pocp.com
781-264-1630

Crystal Kallem,
Da Vinci Project Manager
Crystal.Kallem@pocp.com
515-689-7819

Alix Goss,
Da Vinci PMO
Alix.Goss@pocp.com
717-805-0467

Da Vinci IG Dashboard:
https://confluence.hl7.org/display/DVP/Da+Vinci+Implementation+Guide+Dashboard
• Da Vinci has publicly available Confluence resources!

• Da Vinci Welcome – Confluence page to learn about Da Vinci project and signup for Listserv

• Da Vinci Implementation Guide Dashboard – Confluence summary view of information and links per use case

• New to Da Vinci? Check out the Implementer Resource Page

• Da Vinci Use Cases – Confluence parent page to each use case containing meeting meetings and use case materials

• Da Vinci Video Presentations – Confluence page to view past slides, recordings from Community Roundtable and more!

Request an Account – HL7 Jira/Confluence accounts are free and available to anyone (including non-members)

Quick Links have presentation slides for community to leverage
Da Vinci Implementation Guide Readiness Scale

Overall Maturity

Most Mature
Active implementations, workflows in place in production. Real world impacts available

Active Growth
Initial implementations, feedback in process to update IG and RI

Least Mature
Early adoption, pilot, projects and testing underway. Reference Implementation available

Real World Adoption

Standards Development Progress

STU3 - Normative
STU1-2
Pre STU, build

Regulatory Driver

In Use/Named In Standard
Active Deployment
Early Adopters

May 2024
Tuesday

- May 2025 in Spain
- CSIO Report
- CSDO Report
- IHE: Gemini Presentation
- FHIR Accelerator: CodeX
- FHIR Accelerator: Da Vinci
- FHIR Accelerator: FAST
- Final Announcements
FHIR Accelerator: FAST

David Pyke
FAST Technical Director
## FAST Project Updates

<table>
<thead>
<tr>
<th>Project</th>
<th>Status</th>
<th>Join Us!</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Identity</strong></td>
<td>STU 2 efforts continue – input needed!</td>
<td>1st and 3rd Thursdays at 2pm ET</td>
</tr>
<tr>
<td></td>
<td>• Details of issues being reviewed include: refinement of Identity level requirements in patient credentials and matching and expanding text on Use Cases.</td>
<td></td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>• Increased uptake due to adoption of IG by TEFCA</td>
<td>2nd Tuesday of the month at 2pm ET</td>
</tr>
<tr>
<td></td>
<td>• STU2 efforts are underway – input needed!</td>
<td></td>
</tr>
<tr>
<td><strong>Directory</strong></td>
<td>• Open terminology tickets continue to be worked on to move terminology from the IG into terminology.hl7.org</td>
<td>2nd &amp; 4th Mondays at 3pm ET</td>
</tr>
<tr>
<td><strong>Consent</strong></td>
<td>• A regular public call schedule has been established</td>
<td>2nd and 4th Fridays at 2pm ET</td>
</tr>
<tr>
<td></td>
<td>• Currently reviewing scope and actor roles to refine the goals of the project</td>
<td></td>
</tr>
<tr>
<td><strong>Testing &amp; Versioning</strong></td>
<td>• Current focus: community prioritization of Parking Lot of Discussion Topics and Ideas so that 2 or 3 topics can be selected as the next focus areas</td>
<td>1st and 3rd Thursdays at 10am ET</td>
</tr>
</tbody>
</table>
FAST Focus Webinars
• Held quarterly
• Highlights FAST projects
• Forum for questions & feedback
• Next Webinar will be held May 30, 4-5PM
  o Featuring FAST Security team.
  o REGISTER

Implementer Office Hours
• First Tuesday every month, 1-2pm ET
  o implementers questions
  o connect with other implementers
  o test against FAST RIs
  o hands on support between Connectathons
• Conference call details: https://www.hl7.org/concalls/CallDetails.cfm?concall=71857
• Next scheduled session: June 4th at 1pm ET

Implementer Fact Sheets
• FAST Fact Sheet: Implementing the Security for Scalable Registration, Authentication, and Authorization Implementation Guide
• FAST Fact Sheet: Implementing the Interoperable Digital Identity & Patient Matching Implementation Guide
• You can locate them in Confluence: FAST Implementer Support
Want to learn more about becoming a member of the HL7 FAST FHIR Accelerator?

Want to work with us to implement and test the FAST Security and Identity IGs?

Contact fast@hl7.org
Tuesday

- Paco – May 2025 in Spain
- CSIO Report
- CSDO Report
- IHE: Gemini Presentation
- FHIR Accelerator: CodeX
- FHIR Accelerator: Da Vinci
- FHIR Accelerator: FAST
- Final Announcements
Final Announcements

Karen Van Hentenryck
Executive Administrative Director
HL7 International
Tuesday

- Birds of a Feather Meetings
  - Tuesday 5:15 PM
    - Brazil Ministry Update on Digital Health & Interoperability BOF: Salon A
    - CodeX BOF: Salon F
    - Da Vinci BOF: Salon C
    - Dental BOF: Salon B
Reminder to Co-Chairs

Schedule Changes
Please notify Kirsten & Mary Ann of any schedule changes
(email WGMHelpDesk@HL7.org)
Evaluations

- Meeting evaluation links were in the welcome letter and will also be sent after the meeting concludes.
- There will be a drawing for $500 towards HL7 Education!

https://www.surveymonkey.com/r/May2024WGM
Thank You to Our Sponsor!

DOGWOOD
Health Consulting
Have a nice day!

Tuesday, May 21, 2024
Welcome

Karen Van Hentenryck
Executive Administrative Director
HL7 International
Wednesday

- HL7 Board Chair Report
- WGM+
- TSC Report
- HL7 FHIR Community Process (FCP) and the FCP Coordination Committee
- FHIR Accelerator: Helios
- FHIR Accelerator: Gravity
- BPM Update
- Final Announcements
Chair’s Report

Julia Skapik, MD
Chair, HL7 International
Board of Directors
jskapic@nachc.com
Viet Nguyen,
HL7 Chief Standards Implementation Officer
WGM+ Atlanta / Sep.21-Sep.27 2024

- 38th Annual Plenary, WGM+ and HL7 FHIR Connectathon
- Monday and Tuesday (1/2 day): WGM+ Sessions – No WG Meetings
- Theme:
  Building Futures, Bridging Borders: the Intersection of AI and Global FHIR Innovation
  Including a FHIR Apps Roundtable

- OMNI Atlanta, GA
Wednesday

- HL7 Board Chair Report
- WGM+
- **TSC Report**
- HL7 FHIR Community Process (FCP) and the FCP Coordination Committee
- FHIR Accelerator: Helios
- FHIR Accelerator: Gravity
- BPM Update
- Final Announcements
Wednesday

TSC’s Report

Jean Duteau
TSC Chair
May 2024 WGM TSC

Jean Duteau, FHL7

May 22, 2024
Agenda

- What is the TSC?
- Gold Stars
TSC Mission and Charter

- To provide technical leadership to the HL7 organization to achieve the vision of creating a world in which everyone can securely access and use the right health data when and where they need it.
  - The TSC oversees and coordinates the technical efforts contributed by the HL7 participants to ensure that the efforts of the Working Group are focused on the overall HL7 mission to provide standards that empower global health data interoperability.

- TSC will provide input to the HL7 Board of Directors and implement any Board strategies impacting the Working Group. The TSC provides oversight of the Working Group activities related to the development of HL7 standards.
TSC Composition

- **TSC Chair/Vice-Chair**: (2)
- **Affiliate/Realm Representatives**: (3 including USRSC; Max 6)
- **Product Management Groups**: (1 per group)
- **Working Group Representatives**: (5; Max 8)
- **Implementer Representatives**: (2)
- **Chief Standards Development Officer**
- **Ad Hoc (as needed)**
- **Board Chair (Ex-officio)**
Current TSC Members

- 18 members – elected and appointed
  - TSC-elected Chair – Jean Duteau
  - TSC Chair Elect/Vice Chair – Rick Geimer
  - CSDO – Dan Vreeman
  - 3 International Reps – Alexander Zautke, Christof Gessner and Chris Shawn (US Realm)
  - Working Group Reps
    - Gora Datta
    - Riki Merrick
    - Brian Pech
  - Management Group Reps
    - FMG – Gino Canessa
    - V2MG – Amit Popat
    - CDAMG – Linda Michaelson
    - TSMG - Rob McClure
  - Implementer Representatives
    - Jeff Brown
    - James Agnew
  - Ad Hoc Members
    - David Pyke – GOC Liaison
    - Austin Kreisler
  - Juliet Rubini
  - Lloyd McKenzie
<table>
<thead>
<tr>
<th>Working Group Representatives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gora Datta</strong></td>
</tr>
<tr>
<td>CIMI</td>
</tr>
<tr>
<td>CQI</td>
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<tr>
<td>Conformance</td>
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<tr>
<td>O&amp;O</td>
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<tr>
<td>Patient Care</td>
</tr>
<tr>
<td>Public Health</td>
</tr>
<tr>
<td>SOA</td>
</tr>
</tbody>
</table>
Work Groups - 32

- Arden Syntax
- Biomedical Research & Regulation (BR&R)
- Clinical Decision Support (CDS)
- Clinical Genomics
- Clinical Information Modeling Initiative (CIMI)
- Clinical Interoperability Council (CIC)
- Clinical Quality Information (CQI)
- Community-based Care and Privacy (CBCP)
- Conformance
- Cross-Group Projects (CGP)
- Devices
- Electronic Health Records (EHR)
- Emergency Care
- FHIR Infrastructure (FHIR-I)
- Financial Management
- Human and Social Services Imaging Integration (II)
- Implementable Technology Specifications (ITS)
- Infrastructure & Messaging (InM)
- Learning Health Systems (LHS)
- Mobile Health
- Orders & Observations (O&O)
- Patient Administration
- Patient Care
- Patient Empowerment (PE)
- Payer/Provider Information Exchange (PPIE)
- Pharmacy
- Public Health
- Security
- Services Oriented Architecture (SOA)
- Structured Documents
- Terminology Infrastructure
Gold Stars – 27

- Arden Syntax
- Biomedical Research & Regulation (BR&R)
- Clinical Decision Support (CDS)
- Clinical Information Modeling Initiative (CIMI)
- Clinical Interoperability Council (CIC)
- Clinical Quality Information (CQI)
- Community-based Care and Privacy (CBCP)
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- Financial Management
- Human and Social Services Imaging Integration (II)
- Implementable Technology Specifications (ITS)
- Infrastructure & Messaging (InM)
- Orders & Observations (O&O)
- Patient Administration
- Patient Care
- Payer/Provider Information

- Exchange (PPIE)
- Pharmacy
- Public Health
- Security
- Services Oriented Architecture (SOA)
- Structured Documents
- Terminology Infrastructure
Wednesday

- Board Chair Report
- TSC Report
- HL7 FHIR Community Process (FCP) and the FCP Coordination Committee
  - FHIR Accelerator: Helios
  - FHIR Accelerator: Gravity
- BPM Update
- Final Announcements
Wednesday - HL7 FHIR Community Process (FCP) and the FCP Coordination Committee

Reuben Daniels
Deputy FHIR Product Director
HL7 International

Grahame Grieve
FHIR Product Director
HL7 International
The FHIR Community Process (FCP) & the FCP Coordination Committee (FCPCC)

Reuben Daniels FAIDH CHIA  
Deputy FHIR Product Director, HL7 International
Problem Statement

- FHIR is an open standard allowing any individual or organization to freely develop and publish open / public FHIR specifications.

- Without a process or framework to ensure a consistent foundation for these specifications, they are likely to duplicate effort and not follow best practices.

- This lack of alignment will ultimately contribute to fragmentation and non-interoperable FHIR-based solutions and market confusion.
The FHIR Community Process (FCP)

- The FCP provides requirements (the ‘FCP Requirements’) which guides the global FHIR community to develop specifications which
  - follow best practices,
  - have better acceptance by the broader implementer community, and
  - lead to more interoperable solutions.
The FHIR Community Process (FCP)

- The FCP sets requirements for:

  **FCP Participants:** Parties (individuals or organizations) who wish to publish FHIR Specifications

  **FCP Projects:** FCP Participant projects to develop FCP Specifications

  **FCP Specifications:** FHIR Specifications which align to the FCP.

The FHIR Community Process (FCP)

1. FCP Projects:
   - FCP Participant projects to develop FCP Specifications

2. FCP Specifications:
   - FHIR Specifications which align to the FCP.
The first version of the FCP Requirements document has been finalized and is available from the following permalink:

https://hl7.org/permalink?FCPRequirements
Requirements for FCP Participants

- Publication of an **FCP Compliance Policy** which describes how the participant’s projects and FHIR specifications meet the FCP Requirements including those for:
  - Openness and transparency
  - Consistency and responsiveness
  - Collaboration with the broader community.
  - Providing documentation or rules for:
    - license and intellectual property (IP) contribution requirements.
    - how any party can provide feedback and contribute to outputs.
    - issue resolution, formal ballot, prioritization and project leadership.
    - provision of engagement and collaboration forums.
Requirements for FCP Specifications

- Providing documentation or rules for:
  - an open and consistent process
  - license and any other encumbrances
  - Participation
  - all known security, safety, and privacy issues associated with the specification
  - funding arrangements and provision of community support
  - actual, potential or perceived conflicts of interest of participating entities
  - registration in appropriate FHIR Registries
  - quality and versioning
Approved FCP Participants, Projects and Specifications will be added to HL7 maintained FCP registries

FCP Participants are authorized to use the associated FCP Icons
The FCP Coordination Committee (FCPCC)

- The FCP is governed by the FCPCC on behalf of HL7 International.

- The FCPCC is responsible for:
  - defining and maintaining the FCP Requirements
  - assessing and approving applications for FCP Participants, Projects and FCP Specifications
  - managing the FCP Registries
  - authorizing local FCP coordination committees (e.g. in HL7 Affiliates) to assess and approve FCP applications
  - monitoring the ongoing success of the process.

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FCP Participants welcome!

fhir-director@hl7.org

https://chat.fhir.org/#narrow/stream/427345-FCPCC
One more thing… DevDays Awards 2024!

- Everyone’s favorite: the **DevDays Nerd Award** is back! Unleash your inner nerd and showcase your most over-the-top home application. Nominate here: [https://www.devdays.com/nerd-award-2024/](https://www.devdays.com/nerd-award-2024/)

- New award: the **DevDays Implementer Award**. Nominate your project or a deserving peer to become the very first winner for this prestigious new award: [https://www.devdays.com/fhir-devdays-award-2024/](https://www.devdays.com/fhir-devdays-award-2024/)
Wednesday

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Wednesday

FHIR Accelerator: Helios

Craig Newman
Helios Program Manager
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
How the Pieces fit Together

Shared Priorities to Help Advance Public Health

**USCDI & USCDI+**
Prioritize and harmonize data most crucial to the needs of public health and beyond

**FHIR Advancement and Strategy**
Adopt standards that can be more easily extended and reused as conditions change

**TEFCA**
Develop common, pre-negotiated agreements to simplify data exchange nationwide

**North Star Architecture**
Help public health jurisdictions share and analyze data with each other and CDC

**Certification of IT & Data Systems**
Ensure IT & data systems used by public health are sustainable and meet baseline requirements for security and functionality
HELIOS FHIR Accelerator

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

Accomplishments
• Exploration of patient identification approaches
• Successful Connectathon testing

Next Steps
• Identify common strategies for bulk patient matching
• Advance testing to be ready for real-world pilots

Deliver Aggregate Information to Public Health

Accomplishments
• Definition of proof-of-concept PH Measures for testing
• Successful Connectathon testing – Measure & MeasureReport

Next Steps
• Gather input from stakeholders to define high priority Measures
• Plan activities for continued piloting of the exchange of Measures
## Goals

**Leverage existing FHIR API support** to enhance public health access to data necessary to perform critical functions such as case investigation and providing services and support to impacted individuals.

## Community Leaders
- Bill Howard
- Angel Aponte/Shiva Reddy
- Tina Hardin
- Jim Collins

## Engaged Partners
- HIT/EHR Vendors
- STLTs
- Network Partners
- Federal Partners

## Key Steps
1. Test a set of initial use cases
2. Promote testing of APIs to support move to pilot scale testing
Testing Activities

September 2023
HL7 Connectathon
Phoenix, AZ

January 2024
HL7 Connectathon
Virtual

May 2024
HL7 Connectathon
Dallas, TX

- Test USCDI-based FHIR APIs with a query/response workflow for a variety of use cases applicable to public health investigations
  - Obtain Demographic and Contact Information
  - Query for Newborn Screening Results (hearing and pulse oximetry)
  - Case Investigation of Positive Reportable Condition (e.g., sexually transmitted infections)
  - Cancer Registry Data (pathology, radiology, medications)

- Outcomes
  - Mapping of use case data needs to FHIR-based queries
  - Development of a flexible tools that allows users to easily query FHIR servers for multiple public health use cases
  - Successful retrieval of information from FHIR servers directly and through a network (eHealth Exchange)
Query & Response

**USE CASE 1:** Positive notification (eICR, ELR, etc) triggers FHIR query(s)
**USE CASE 2:** Patient matching (with MRN or various demographics)
**USE CASE 3:** Query for STI clinical data (several FHIR resources)
**USE CASE 4:** Query for Newborn screening data (EHDI, CCHD)
**USE CASE 5:** Query for Cancer (Treatment, Medications)

**NOTE:**
- eHealth Exchange is playing the QHIN Actor for Connectathon testing (but this could be any QHIN or other network type)
Next Steps

- Further discuss and refine approaches to Patient identification
- Explore QHIN, HIE, HIN interaction for TEFCA
- Explore how data will be used once received by public health
- End-to-end testing with a variety of use cases
- Continued mapping of use case data requirements to FHIR queries
- Work with partners to identify STLTs for potential pilots
Participating Groups

Thank you for your contributions to improving public health!
Call to Action

Get involved!

• Helios Priority Area Project Team calls

  • Bulk Data
    o Bi-weekly on Mondays at 12:00PM Eastern
    o Reach out – craig.newman@altarum.org
  • Aggregate Data
    o Bi-weekly on Wednesdays at 1:00PM Eastern
    o Reach out – forest.white@altarum.org
  • Query & Response
    o Bi-weekly on Thursdays at 1:00PM Eastern
    o Reach out – forest.white@altarum.org
  • Operating Committee
    o Regular calls throughout the year
    o Reach out – helios@hl7.org
Thank you and please get involved!

helios@hl7.org
Helios Confluence Site
Wednesday

- Board Chair Report
- TSC Report
- HL7 FHIR Community Process (FCP) and the FCP Coordination Committee
- FHIR Accelerator: Helios
- FHIR Accelerator: Gravity
- BPM Update
- Final Announcements
Wednesday

FHIR Accelerator: Gravity

Corey Smith
Member, Gravity Project Steering Committee
Consensus-driven Standards on Social Determinants of Health

Gravity Project General Update
HL7 Working Group Meeting Wednesday, May 22, 2024

Corey Smith, Vice President, Informatics and Digital Products, Health Solutions, American Medical Association, and Gravity Project Technical Director
Gravity Strategic Goals

• Grow and maintain a vibrant community with **sustainable** governance, funding, and an operational model that strengthens Gravity Project partnerships and **community-led** consensus-based goals

• Convene and support a **diverse community** with expertise and lived experience of addressing and meeting social needs, through care, administrative support and informatics

• **Accelerate data standard solutions** to address the payment and reporting needs of community-based organizations and other stakeholders that **promote equitable health** and social care, leveraging HL7® FHIR®, in conjunction with other standards as needed

• Enable Health and Social Care organizations to effectively **implement and test** Gravity Project SDOH data exchange and terminology standards to ensure they better meet community needs

• Increase **awareness** of Gravity work among broader stakeholder groups
2024 Project Sponsors, Members and Partners

Special thanks to the following for your in-kind contributions to Gravity Project: CMS, AMA and Civitas Networks for Health

Rev. 4/16/24
Workstream Happenings
Terminology, Technical, Implementation

- New Domain Work:
  - Utility Insecurity completed consensus process with May 16 public vote
- Planned for Fall 2024:
  - Coding for Food
  - Language Barriers
  - Legal Action/Incarceration
- Enhancement of existing program terms to support documentation and reimbursement

Pursuing an STU Update, including:
- Incorporating new terminology domains: digital access and digital literacy
- Gravity Value Sets guidance
- Assessment Instrument Support
- Support for Adaptive Profiles for easier implementation and validation of value sets

Active Discussions for:
- Translating HRSN Assessment Data To Consistent, Computable Data
- Referral harmonization across IGs

- NY 1115 Waiver Gravity Implementation Technical Assistance
- Gravity Implementation Affinity Group – Monthly Real-World Learning forum
How to Engage

Gravity convenes participants from across the health and human services ecosystem via the following virtual public open meetings (all times in ET):

1. Terminology Workstream: Community Collaborative - Bi-weekly Thursdays 4:00 - 5:30pm
2. Technical Workstream: Implementation Guide - Bi-weekly Wednesdays 1:00 - 2:00pm
3. Implementation Affinity Group - Last Thursday each month 2:30 - 4:00pm

View the Upcoming Meeting Information confluence page and HL7 conference call calendar for meeting details.

Become a Gravity Project sponsor!

Become a sponsor here
Contact: vanessa.candelora@pocp.com
Learn More!

**Visit us at:**

Gravity Website: [https://thegravityproject.net/](https://thegravityproject.net/)

Gravity Confluence Page: [https://confluence.hl7.org/display/GRAV/The+Gravity+Project](https://confluence.hl7.org/display/GRAV/The+Gravity+Project)

**Help us with Gravity Education & Outreach**

Use Social Media handles to share or tag us to relevant information:

Twitter: @thegravityproj

LinkedIn: [https://www.linkedin.com/company/gravity-project](https://www.linkedin.com/company/gravity-project)
Archive
Gravity Overview

A collaborative initiative with the goal to develop consensus-driven data standards to support the collection, use, and exchange of data to address the social determinants of health (SDOH).
Gravity Project Timeline

- **2017**
  - **SIREN Exploration**
  - **November:** SIREN/Academy Health Host Multi-Stakeholder Group

- **2018**
  - **November:** SIREN Contracts with EMI to Initiate Gravity Project

- **2019**
  - **Launch**
    - **August:** Gravity becomes an HL7 FHIR Accelerator Project
  - **Food Insecurity**
  - **Housing Instability**
  - **Homelessness**
  - **Transportation Insecurity**

- **2020**
  - **November:** Gravity Value Sets in VSAC
  - **July:** Gravity Data Sets in USCDI v2
  - **August:** Gravity IG STU1 Published

- **2021**
  - **November:** Gravity Value Sets in VSAC
  - **December:** Gravity IG STU2 Published
  - **Medical Cost Burden**
  - **Health Insurance Coverage Status**
  - **Health Literacy**

- **2022**
  - **September:** Gravity Pilots Affinity Group launch
  - **April:** Gravity Pilots Phase II Launch: Focus on Public Health/Health Equity
  - **January, May, Q2:** IG Testing and Updates
  - **March:** Discovery to advance national data standards for payment and reporting use case
  - **April/May:** Program Classification

- **2023**
  - **November:** Gravity IG STU2.1 Published
  - **Digital Access**
  - **Digital Literacy**
  - **Utility Insecurity**
  - **Legal Access/Incarceration**
  - **Language Barriers**

- **2024**
  - **February:** Gravity Implementation Affinity Group Re-Launch
  - **Social Care Co-Design Final Report Release**

*Italicized text is planned.*
Gravity 2024 Roadmap

Timing TBD - Dependent on Partner/Grant Funding

### Terminology
- **Utility Insecurity**
- **New Use Case Discovery:**
  - Social Care
  - Payment and Reporting
- **New Use Case Discovery:**
  - Intervention
  - Outcomes
  - Tracking & Measurement

### Technical
- **Build, Dissemination and Evaluation**
- **Coding for Food**
- **Language Barriers**
- **Legal / Incarceration**

### Implementation
- **Maintenance**
- **STU Update (Value Sets)**
- **STU Ballot With Adaptive Profiles**
  - HL7 FHIR Connectathon
  - CMS HL7 Connectathon
  - HL7 FHIR Connectathon

### Pilots Affinity Group Calls (Civitas Hosted)

### Gravity Implementation Affinity Group

### Improving Education and Dissemination for Implementers
- **LOINC Code Release (FEB/AUG)**
- **SNOMED Code Release (MAR/SEP)**
- **ICD-10 Code Release (APR/OCT)**
- **Monthly Meeting**

---

The Gravity SDOH Clinical Care FHIR Implementation Guide is an STU 2.1. Updated February 2024.
Gravity Implementation Across the Nation

This is a sample (not all-inclusive list) of organization locations that participated in Gravity Pilots over 2021-2023. In 2024, Gravity has moved from focused pilots to forums and resources to support widespread implementation.

Implementation Workstream 2023

- Focus on public health and health equity in partnership with Civitas Networks for Health, with support from the Robert Wood Johnson Foundation*

- Pilot sites: Bronx (RHIO)/New York State, MyHealth Access Network/Oklahoma State; University of Colorado Hospital/Denver Metro Area; Pima County Department of Public Health & Southwest Tribe/Pima County Arizona
  - Highlights: NY State 1115 waiver design and implementation TA for terminology and IG, learning about opportunities and barriers for health system terminology implementation

Implementation Workstream 2024- continued support!

- Ongoing assistance with the NY 1115 waiver leveraging the AHC HRSN Resource as a primary tool!

*Support for 2023 was provided by the Robert Wood Johnson Foundation. The views expressed here do not necessarily reflect the views of the Foundation.
Social Care Voice Co-Design Project

Social Care Voice Engagement

- Partnered with Civitas Networks for Health, with support from the Robert Wood Johnson Foundation*
- 6-session series completed
- Focused on soliciting, synthesizing, and documenting social care and community based organizations’ feedback and insights
- Proposed new use cases to inform Gravity data standards

*Support for this initiative was provided by the Robert Wood Johnson Foundation. The views expressed here do not necessarily reflect the views of the Foundation.
Wednesday

- Board Chair Report
- TSC Report
- HL7 FHIR Community Process (FCP) and the FCP Coordination Committee
- FHIR Accelerator: Helios
- FHIR Accelerator: Gravity
- BPM Update
- Final Announcements
BPM Update

Ken Rubin
HL7 International
Board of Directors
BPM+ Health joins HL7
Context

- Focused on computable clinical pathways and guidelines
- Allows for human and machine readable expression
- Advances learning health systems, high-reliability organizations, consistent care practices
- Highly complementary with FHIR
Without Changes, Keeping Pace is Untenable

- Best-practices are constantly evolving
- Each new care pathway impacts human processes, HIT, or both
- **17 years** from discovery to bedside is untenable
- Every **6 months** what we know doubles

So if there were only 1000 care pathways today, what would this look like…. 

What is a BPM+ Process Model?

**What it is**
Set of diagrams illustrating flow, actions, decisions
Each box, symbol, and line has precise meaning
Suitable for use by both people and computers
Integrates several visual "languages" including BPMN

**How it is used**
Tool for expressing business requirements
Communication vehicle to foster shared understanding
Alternative to narrative Documentation
Consumable software asset expressing knowledge, state

**Why do I care?**
VHA starting to document requirements this way
Less ambiguous than narrative requirements
This approach provides a functional complement to FHIR
BPM+ Health is now a part of HL7 – Come Join Us!!

- Collaborative work with several WGs
- Have participated in past 3 connectathons
- Formal Board vote yesterday transitioning into HL7
- You are invited to an open discussion on next steps in Q1 (Salon F)
Wednesday

- Board Chair Report
- TSC Report
- HL7 FHIR Community Process (FCP) and the FCP Coordination Committee
- FHIR Accelerator: Helios
- FHIR Accelerator: Gravity
- BPM Update
- Final Announcements
Final Announcements

Karen Van Hentenryck
Executive Administrative Director
HL7 International
Wednesday

- **AI Opportunities Meeting**
  - Wednesday 12:30 PM
    - Stemmons AB

- **Birds of a Feather Meetings**
  - Wednesday 9:00 AM
    - Government BOF: Stemmons AB
  - Wednesday 12:30 PM
    - Vulcan BOF: Salon B
The Networking Reception will take place at 5:15 PM in the City View and City View Terrace.

We will be honoring Mark McDougall’s contributions to HL7 and wishing him well in retirement.

If you haven’t signed the memory book, please do so today!
Reminder to Co-Chairs

Schedule Changes

Please notify Kirsten & Mary Ann of any schedule changes
(email WGMHelpDesk@HL7.org)
Evaluations

- Meeting evaluation links were in the welcome letter and will also be sent after the meeting concludes.
- There will be a drawing for $500 towards HL7 Education!

https://www.surveymonkey.com/r/May2024WGM
Thank You to Our Sponsor!

[Logo: Dogwood Health Consulting]
Have a fabulous day!

Wednesday, May 22, 2024
May Working Group Meeting
Dallas, Texas
Thursday, May 23, 2024
HL7 International and openEHR are pleased to inform our collective communities that we are jointly considering aligning some of our standards and specifications for the global good.

We believe that this will be beneficial for:

* The digital health ecosystem: in the long term, having some aspects of openEHR co-published as HL7 standards will deliver clarity and harmony. This will increase the choices and power of software as an inevitable outcome is demonstrating how the specifications work together more completely than has been done previously.
* The openEHR community: by gaining additional community, alignment of formal adoption processes, and availability of shared conformance, compliance, publication tools and processes
* The HL7 community: by leveraging openEHR’s open collaborative culture, platforms, and people - particularly the clinical community - an extensive clinical model library, clinical modelling methodology, elements of the specifications and the value provided by better integration of tooling and modelling between the communities

We appreciate that this news may surprise some of you, and we recognise that there will be questions on how we can best work together. The questions we have already posed ourselves include:

* Which openEHR specifications are appropriate to benefit from an HL7 driven standardisation process? Initial potential candidates include IPS and EHDS.
* Can we create a path through HL7 that meets openEHR’s standardisation needs, but works for an already existing community with a different geographical distribution and a different core requirement than HL7’s existing community?
* Can HL7 create a path that meets its standards obligations, and works for the existing openEHR community that has a different geographical distribution and different core needs?
* Where we believe mutual value can be achieved in the alignment or reconciliation of openEHR and HL7 standards and specifications, how can we achieve that? How do we describe the process? How does the ecosystem benefit?
* Can (and should) we introduce more formal standardisation for some parts of openEHR and is this possible without harming the proven openEHR culture of open innovation?
* Can (and should) we introduce some aspects of openEHR methodology to HL7 without compromising a well-established standards process?
* Given the effort and commitment that this will take, and a need for ongoing activities such as standards maintenance, is there a lasting benefit for both our communities?

We do not have any formal agreement at this time, or even any certainty that we can overcome these challenges. We are announcing our intention to explore a closer collaboration.

Both openEHR and HL7 are open communities; our true value is that openness and having a transparent dialogue. We must not consider these matters without involving you, which is why we’re letting you know that we’re looking at this, and asking you for your input.

If we together decide to move forward, whatever we do will take time to build trust, develop approaches, and deliver outcomes.

Please do provide your honest feedback - in the spirit of working together towards our shared vision of an enhanced digital health ecosystem. Indeed, we anticipate and look forward to getting many comments!

Thank you for your time, and considering this next step in the future of both our organisations.

Best wishes

Rachel and Chuck
rachel.dunscombe@openehr.org
cjaffe@hl7.org

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Thursday

- Upcoming Meetings & Education
- Recognition of Individuals and Companies
- Final Announcements
Thursday

Upcoming Education & Meetings

Sadhana Alangar, PhD
Director of Education
HL7 International
Agenda

• 2024 Online Synchronous Classes
• 2024 Asynchronous (Self-Paced) Classes
• Credentialing Program
• Certified Educator Program
• 2025 Courses - Suggestions
### 2024 Synchronous Online Classes

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<th>Dates</th>
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<td>SMART on FHIR &amp; CDS Hooks</td>
<td>June 18-20</td>
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<tr>
<td>HL7 FHIR in the Clouds</td>
<td>July 30 – August 1</td>
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<tr>
<td>HL7 FHIR by Trial</td>
<td>August 13-14</td>
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<tr>
<td>Referrals and Orders: How to Ask for Stuff in HL7 FHIR</td>
<td>August 28-29</td>
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<tr>
<td>Hands-On HL7 FHIR Data Modeling &amp; Profiling (Education Partner Class)</td>
<td>September 9-11</td>
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<tr>
<td>How to Exchange Data Between EHRs</td>
<td>September 10-11</td>
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<tr>
<td>Applied FHIR Questionnaire &amp; Data Capture</td>
<td>October 22–24</td>
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2024 Asynchronous Courses

- HL7 Fundamentals – May 23, Sep 5
- HL7 FHIR Fundamentals – Jul 11, Oct 24
- HL7 FHIR Intermediate – May 30, Sep 12
- HL7 FHIR Exam Prep – Jun 13, Sep 26
- HL7 V2 to FHIR Mapping – Sep 5
2024 Free Webinar

- HL7 Enabling US Nationwide Networks – June 20 @ 3:30 PM ET
  - Panel:
    - Hans J. Buitendijk, M.Sc., FHL7
    - Rob Klootwyk
    - Virginia Lorenzi, FHL7
1. Go to HL7.org
2. Click on Training tab or Education Calendar
3. Fill out form to download

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Credentialing Program

- HL7 FHIR Foundational Pilot Exam
- May – The pilot exam results will be assembled and be analyzed
- June – Standards setting calls, and SMEs will take the exam
- Exam results expected to be announced by the end of June
Next Certification Exam

- Advanced Exam
  - Software Developers
- Job Task Analysis – end of May
- Item Development Workshop – June & July
- August (Pilot)
- Expect to be completed in November
Certificate Educator Program

- Membership
- Certification
- Teaching Experience and Philosophy
- Course Evaluations
Education Advisory Council

- Thank you Desla Mancilla
- Required Expertise
  - Experience with Continuing Education Credits
- Suggestions for 2025 Courses
DevDays 2024

HL7® FHIR® DevDays 2024
McNamara Alumni Center
Minneapolis, Minnesota

June 10-13, 2024
https://www.devdays.com/
Upcoming HL7 Events

HL7 FHIR Connectathon
The Omni
Atlanta, Georgia
September 21 & 22, 2024

WGM+ & Working Group Meeting
The Omni
Atlanta, Georgia
September 21-27, 2024
Upcoming HL7 Events

HL7 FHIR Virtual Connectathon
Virtual
January 14-16, 2025

HL7 Virtual Working Group Meeting
Virtual
January 27-30, 2025
Thursday

- Upcoming Meetings & Education
- Recognition of Individuals and Companies
- Final Announcements
Recognition of Individuals & Companies

Karen Van Hentenryck
Executive Administrative Director
HL7 International
Recognition of the Backbone of HL7

Sincere thanks to our dedicated mentors, facilitators, TSC members, instructors and all co-chairs…

the *backbone* of HL7
Recognition of Long Time Members

HL7 members for **20-24** years:

Noam Arzt
Anne Badame
Mary Lynn Bushman
Christopher Chute
Gora Datta

Tom de Jong
Helen Drijfhout-Wisse
Sheldon Gilmer
Matthew Greene
Norman Gregory
Recognition of Long Time Members

HL7 members for 20-24 years

Grahame Grieve  Beat Heggli
Smita Hastak  Kai Heitmann
John Hatem  William Hess
Alexander Henket  Masaaki Hirai
Robert Hausam  Jeff Jacobs
Recognition of Long Time Members 3/4

HL7 members for **20-24** years:

Lenel James       Austin Kreisler
Robert Jenders    David Marotz
Phillip Kiefer   James McClay
Michio Kimura     Lloyd McKenzie
Peter Kranich     Eliot Muir
Recognition of Long Time Members

HL7 members for 20-24 years:

Nancy Orvis
Ron Parker
John Ritter
Ken Rubin
Masakazu Shimomura

Corey Spears
Sadamu Takasaka
Sylvia Thun
Denise Warzel
Recognition of Very Long Time Members 1/2

HL7 members for 25-29 years:

Liora Alschuler
Bernd Blobel
Durwin Day
Ray Duncan

Carl Dvorak
Tony Julian
Christopher Melo
Karen Nocera
Recognition of Very Long Time Members 2/2

HL7 members for **25-29** years:

Frank Oemig  
Vassil Peytchev  
AbdulMalik Shakir  
Judith Snow  
Rene Spronk  
Robert Stegwee  
Timo Tarhonen
Recognition of Very Long Time Members

HL7 members for 30-34 years:

Hans Buitendijk
Ted Klein
Virginia Lorenzi
Clem McDonald
Recognition of Very Long Time Members

HL7 members for **35+** years:

Gary Dickinson  
Ed Hammond, PhD
<table>
<thead>
<tr>
<th>2024 Benefactor Members</th>
<th>1/2</th>
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<tr>
<td>Accenture</td>
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<td>Allscripts</td>
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<td>Food &amp; Drug Administration (FDA)</td>
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<td>Mass General Brigham</td>
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NCQA
Office of the National Coordinator for Health IT (ONC)
Optum
Oracle
Pfizer
Philips Healthcare
PointClickCare

Quest Diagnostics, Incorporated
Ready Computing Inc.
U.S. Department of Veterans Affairs
Gold Members

Academy of Nutrition & Dietetics
ADVault, Inc.
Alphora
Altarum
American College of Physicians
Apothesource Inc
Association of Public Health Laboratories
ASSYST, Inc.
Availity, LLC

Azuba Corporation
Blue Cross Blue Shield Association
BlueCross BlueShield of Alabama
C-HIT
CAL2CAL Corporation
Carradora Health, Inc.
CCS Health
CITRIOM LLC
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Gold Members

Connecticut Department of Public Health
Council of State and Territorial Epidemiologists
CU Anschutz Medical Campus
Dogwood Health Consulting Inc.
Double Lantern Informatics
Drummond Group
Duteau Design Inc.
EMI Advisors LLC

Evernorth
EyeMD EMR Healthcare Systems, Inc.
Firely USA
Graphite Health
Greater Rochester RHIO
Health Care Service Corporation
Health Intersections Pty Ltd
Hi3 Solutions
Humanized Health Consulting
ICF
Gold Members

ICHOM
Intelligent Medical Objects (IMO)
INTERFACEWARE, Inc.
Labware, Inc.
Logibec
Massachusetts Health Data Consortium
MedCom
Meridian Analytics
Michigan Health Information Network
Microsoft Corporation

Milliman IntelliScript
MY Synergy Ltd.
National Association of Community Health Centers
National Association of Dental Plans
National Marrow Donor Program
NICTIZ
North Star Health Solutions
Northwestern Medicine
Onyx Technology LLC
Gold Members

- P.G.M.D. Consulting S.r.l.
- Public Health Informatics Institute
- Redox
- Regenstrief Institute, Inc.
- Remo Health
- Rhoads Systems Inc.
- RTI International
- Samvit Solutions
- Security Risk Solutions, Inc.
- SMART Health IT
- Systex, Inc.
- The Sequoia Project
- Therap Services LLC
- U.S. Department of Defense, Military Health System
- UC Davis Health
- UNC Health
- United Physicians
Gold Members

Univ of TX Health Science Center San Antonio
University of Arkansas Medical Sciences
USAging
UW Medicine Information Technology Services
Velatura Services
VICO Open Modeling

VNB Health Solutions
Washington State Department of Health
Thursday

- Upcoming Meetings & Education
- Recognition of Individuals and Companies
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Final Announcements

Karen Van Hentenryck
Executive Administrative Director
HL7 International
Meeting evaluation links were in the welcome letter and will also be sent after the meeting concludes.

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Thank you!

Thursday, May 23, 2024