

# HL7 Updates - Da Vinci and Other Accelerators

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**HL7**<sup>®</sup>  
International

## HL7 International

- A not-for-profit, founded in 1987
- ANSI-accredited standards development organization (SDO)
- Dedicated to providing a comprehensive framework and related standards for the exchange, integration, sharing, and retrieval of electronic health information
- Three Product Families: FHIR, V3/CDA, V2.x

# HL7's Global Reach

- 50+ Countries
- 500+ Corporate Members
- 1600+ Individual Members
- Thousands of contributors





## **WELCOME RACHEL DUNSCOMBE AS HL7 CEO**



- Formerly CEO of OpenEHR
- Served as CEO of the NHS Digital Academy, where she helped shape the UK's digital health leadership strategy
- Provided advisory services to the UK Secretary of State for Health
- Served on the UK Government AI Council, demonstrating her expertise in health technology and the integration of AI into healthcare systems.

# HL7 AI Activities

- Dan Vreeman, HL7 Chief Standards Development Officer and Chief AI Officer
- [Try out the AI-powered HL7 AI Navigator!](#)
- [LLM-friendly text representations of HL7 FHIR specifications](#)
- [AI Transparency on FHIR - 1.0.0-ballot - STU1 Ballot](#)
- [AI tools in the HL7 Foundry](#)



# FHIR MCP Server

Close

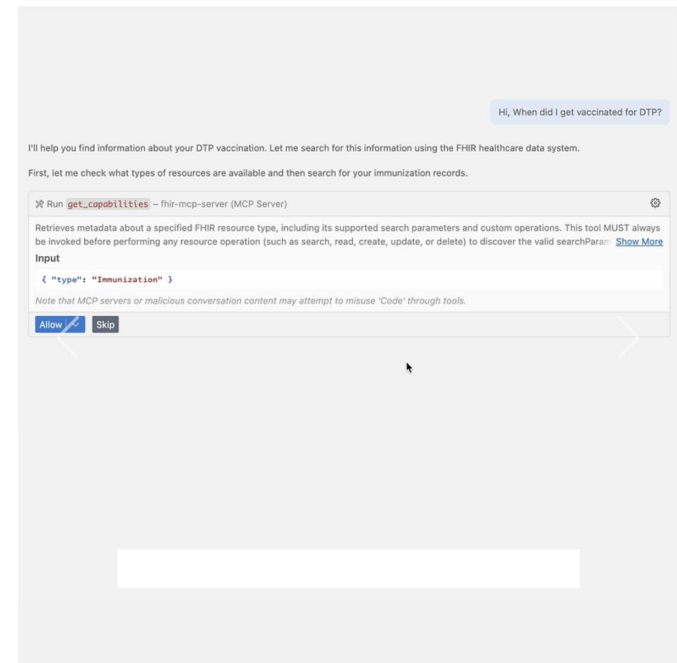
The FHIR MCP Server is a Model Context Protocol (MCP) server that provides seamless integration with FHIR APIs. Designed for developers, integrators, and healthcare innovators, this server acts as a bridge between modern AI/LLM tools and healthcare data, making it easy to search, retrieve, and analyze clinical information.

contributors 7 last commit march python 99.0% docker build manual

Support Source Code Leave Feedback

## Licensing Options

Apache 2.0 (free)



Instructions

Configuration Wizard

Included With

Running the fhir-mcp-server



# HL7 AI FHIR Bundle

Close

A complete offline, open source AI development environment for working on FHIR projects, including a ChatGPT-like web interface, pre-integrated FHIR server, opt-in web search capabilities, and MCP (Model Context Protocol) server support. This bundle enables you to run a fully functional, free AI environment behind your corporate firewall or on your local machine (see hardware requirements) for manipulating FHIR data, building apps, writing implementation guides, asking questions, and just having fun with FHIR!

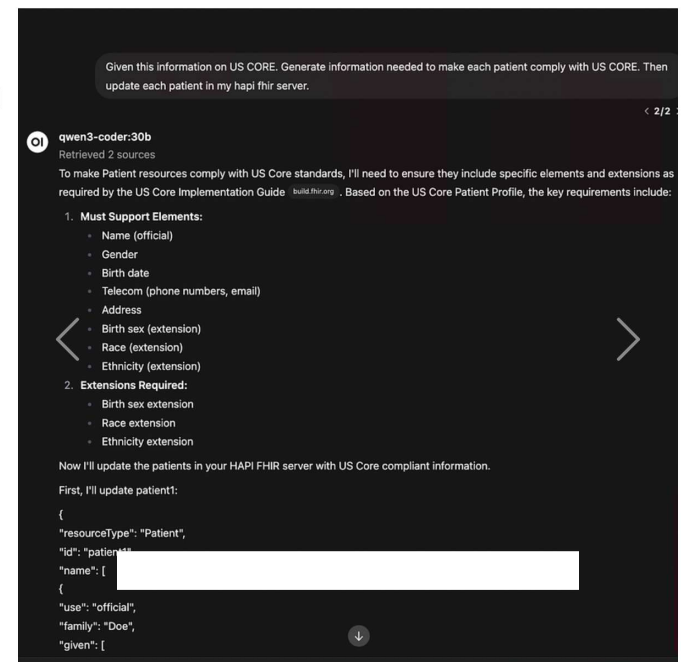
**This evergreen AI bundle is for development use only and requires technical tuning to work for your use cases and available hardware. Included components are from numerous open source projects that can change frequently and unexpectedly.**

## System Requirements

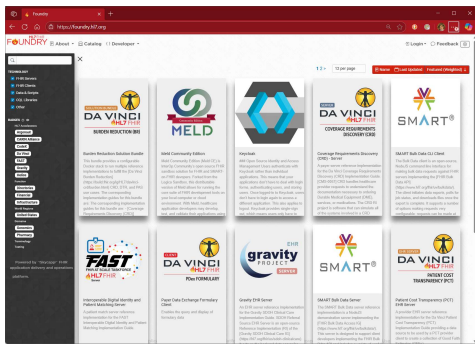
To support macOS, Windows, and Linux, and lessen the complexity of this software bundle, we only test using Docker Desktop and use a bring-your-own-LLM (BYOLLM) approach. You will need to separately install, or have access to, an instance of the free Ollama runner from <https://ollama.com> running on a GPU with enough RAM to completely load your model of choice. Our tests and default configuration use the qwen3-coder-next model that uses 52GB of GPU RAM!

- Apple macOS users must have an M-series machine. We recommend at least 32GB of unified system RAM.
- PC users MUST have an NVIDIA or AMD GPU with vendor graphics drivers. Lower amount of GPU RAM will need to use an alternate model to fit within your system's GPU specifications to avoid executing on the CPU.

**If you do not have a system capable of running Ollama with enough GPU memory, we strongly advise foregoing installation until you have access to a suitable system. Ollama will technically run on underpowered systems but will attempt to use CPU and system RAM with unusable results.**

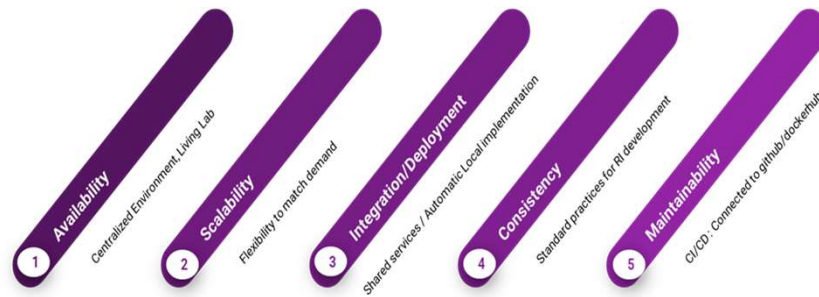


# HL7<sup>®</sup> FHIR Foundry<sup>®</sup>



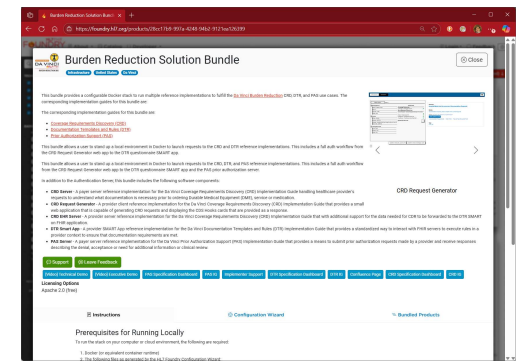
## Foundry Gallery

- Help your community find your reference implementations



## Foundry Hosting

- A secure, HL7 managed place where we can install and run RIs for HL7 Specs
- Server-less, container-based environment to host reference implementation (RI) clients and servers
- Integration with other RI's (e.g security, identity, etc.) to create an ecosystem



## Foundry Advanced Capabilities

- Allow users to download integrated reference implementations

Foundry.HL7.org

Search Ctrl+K

Name Last Updated Featured (Weighted)

TECHNOLOGY

- FHIR Servers
- FHIR Clients
- Data & Scripts
- CQL Tools
- Other

BADGES

- HL7 Accelerators
  - Argonaut
  - CARIN Alliance
  - CodeX
  - Da Vinci
  - FAST
  - Gravity
  - Helios
- Function
  - Directories
  - Financial
  - Infrastructure
- World Regions
  - United States
- Domains
  - Genomics
  - Pharmacy
- Public Health
- Terminology
- Testing



### Burden Reduction Solution Bundle

This bundle provides a configurable Docker stack to run multiple reference implementations to fulfill the [Da Vinci Burden Reduction] (<https://build.fhir.org/ig/HL7/davinci-crd/burden.html>) CRD, DTR, and PAS use cases. The corresponding implementation guides for this bundle are: The corresponding implementation



### CQL Studio

## Complete Bundle for CQL Development CQL Studio is a fully integrated CQL authoring environment for FHIR-based CQL authoring, artifact testing using FHIR data, engine implementation validation, CDS integration testing, visual engine compatibility reporting, and more. The user interface is entirely web based and further provides ALLM integration for



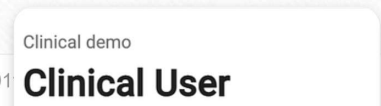
### Interoperable Digital Identity and Patient Matching Server

A patient match server reference implementation for the FAST Interoperable Digital Identity and Patient Matching Implementation Guide.



### HAPI FHIR

HAPI FHIR is a complete implementation of the HL7 FHIR standard for healthcare interoperability in Java. It is maintained by an open community developing software licensed under the business-friendly Apache Software License 2.0. HAPI FHIR is a product of Smile Digital Health and maintained on GitHub. These configurations of HAPI





# CMS HL7<sup>®</sup> FHIR<sup>®</sup> CONNECTATHON

JULY 14-16, 2026

FACILITATED BY CMS'S OFFICE OF HEALTHCARE EXPERIENCE  
& INTEROPERABILITY (OHEI) AND HEALTH INFORMATICS &  
INTEROPERABILITY GROUP (HIIG)

VIRTUAL EVENT



# HL7 FHIR Accelerator Program

Begun only 8 years ago, the program assists implementers across the healthcare and research spectrum in the creation of FHIR implementation guides and critical public- and private-sector solutions, including terminologies.



# Caliper: HL7's Newest Accelerator Begins Operations



- A new implementation community focused on improving how data from medical and personal health devices is exchanged, integrated, and used across healthcare systems
- <https://www.hl7.org/caliper>

# FHIR At Scale Taskforce (FAST) Update





## CMS-Aligned Interoperability Landscape (Payer View)



- **Payer Workflow Reality Today:**

- Fragmented identity across systems
- Manual onboarding & trust establishment
- Inconsistent consent enforcement
- Directory gaps → failed or delayed exchange

- **FAST Role (Infrastructure Layer):**

- Identity → Who is requesting/accessing?
- Security → Can they be trusted?
- Consent → What are they allowed to access?
- Directory → Where/how do we connect?



## FAST Security + Identity (Trust Foundation)

- **FAST Security (Toward STU 3 + Global Ballot):**
- Built on UDAP (cert-based trust, OAuth, dynamic registration)
- Expanding to Tiered OAuth + purpose-driven access
- Enables network-to-network trust (QHINs, payers)
- Approved for Global ballot (HL7 May – Rotterdam)

### FAST Identity STU 3 (Kickoff):

- Federated, network-mediated identity model
- Alignment with CARIN Digital Trust Framework
- Golden Record architecture for member matching
- Integration with CSPs (CLEAR, ID.me, Login.gov)
- Supports CMS Individual Access Services (IAS)

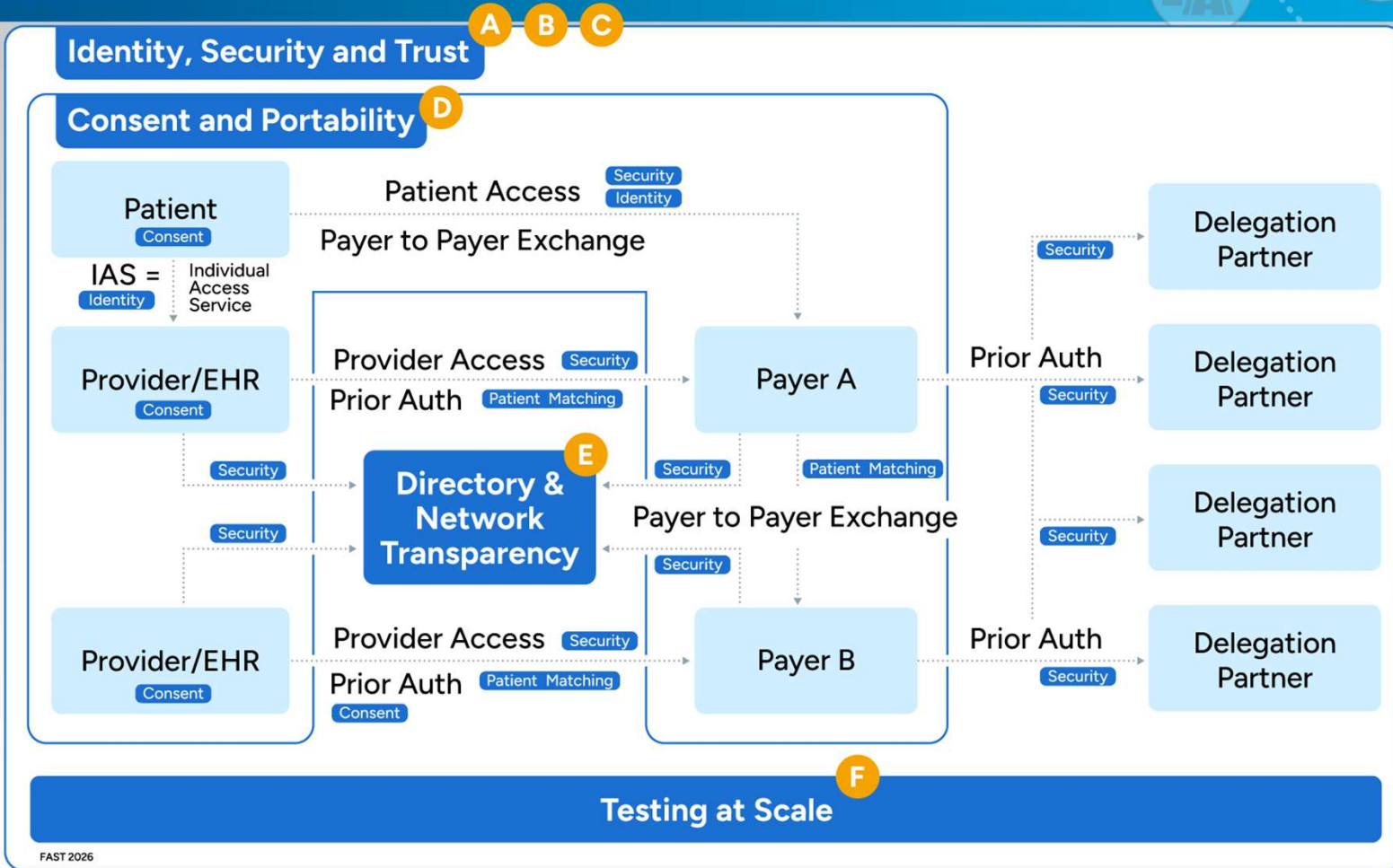


## FAST Consent + Directory (Operationalizing Exchange)



- **FAST Consent IG (Publishing 2026):**
- Full lifecycle: capture, update, revoke, audit
- Event-driven + subscription-based model
- Standard FHIR profiles + operations
- Aligns with CMS Patient Preferences WG
- **FAST Directory (NDH):**
- Standardized provider & endpoint discovery
- Supports CMS National Provider Directory
- Reduces payer/provider directory fragmentation
- Enables real-time routing of FHIR transactions

# CMS Aligned Networks – FAST Infrastructure



# FAST as FHIR Accelerator – Connecting the Healthcare Ecosystem

## HL7® FHIR® ACCELERATOR / COMMUNITY

Healthcare Applications



Common Scalability Approaches & Enablers

### ARCHITECTURE



Sandbox, Testing, Feedback

Foundry

Pilots

Trebuchet

HL7 Working Groups

Standards

CMS Aligned Networks

## STAKEHOLDERS

Non-Accelerator/  
Use Case Specific Initiatives

SDOs

IHE

Networks/ HIEs

TEFCA™

carequality

commonwell®  
HEALTH ALLIANCE

CIVITAS  
Networks for Health

DirectTrust®

## ADOPTION AND FEEDBACK





## What This Means for Blues Plans + Call to Action

- **Impact for Blues Plans:**
- Accelerate CMS compliance (IAS, P2P exchange)
- Reduce onboarding & integration costs
- Improve member matching + experience
- Enable scalable, secure API exchange



## FAST provides the interoperable trust infrastructure enabling Blues plans to operate effectively within CMS Aligned Networks at scale.

- **FAST + CMS Alignment:**

- HL7 signed CMS Ecosystem Pledge
- Active in CMS Working Groups:
  - Identity
  - Patient Preferences
  - Directory

- **Call to Action:**

- Participate in CMS Connectathons (July 2026)
- Participate in HL7 Connectathon (September 19<sup>th</sup> – 25<sup>th</sup>, Rockville, MD)
- Align internal architecture to FAST frameworks
- Engage in FAST workgroups to shape implementation



# Advancing the Trust Infrastructure for CMS-Aligned Networks



The FAST Implementer Support Hours series is designed to provide **hands-on guidance, real-world implementation insights, and open collaboration** across the FAST ecosystem. Each session focuses on a core component of the FAST trust infrastructure—supporting **Identity, Security, Consent, Directory, and Testing at Scale**.

## Series Overview

- **Audience:** Implementers, architects, developers, policy leaders, payers, providers, HIEs, vendors
- **Format:** Monthly virtual working sessions (interactive, implementation-focused)
- **Objective:** Accelerate **real-world adoption, Connectathon readiness, and CMS-aligned implementation maturity**

**May 5, 2026 — FAST Directory (NDH)**

**12:00 p.m. CDT/1:00 p.m. EDT**

**Topic:** *National Directory (NDH) – Foundational Discovery for CMS-Aligned Networks*

Guest: Fred Trotter – CMS Provider Directory

## Focus Areas:

Endpoint and organization discovery using **FAST NDH IG**  
Role of directory in **TEFCA and CMS-Aligned Networks**  
Implementation patterns for:  
Practitioner, Organization, Endpoint relationships  
Network identification and tagging (e.g., CMS-aligned status)  
Connectathon testing readiness



## FAST Artifacts and Resources



Want to learn more about becoming a member of the HL7 *FAST* FHIR Accelerator?

Want to work with us to implement and test *FAST* IGs?

Contact Janice Reese  
([janice.reese@pocp.com](mailto:janice.reese@pocp.com))

**CONTINUE THE  
CONVERSATION!**



*Join the FAST Community to stay up to date – receive updates about FAST presentations & events, provide additional input and follow our progress.*

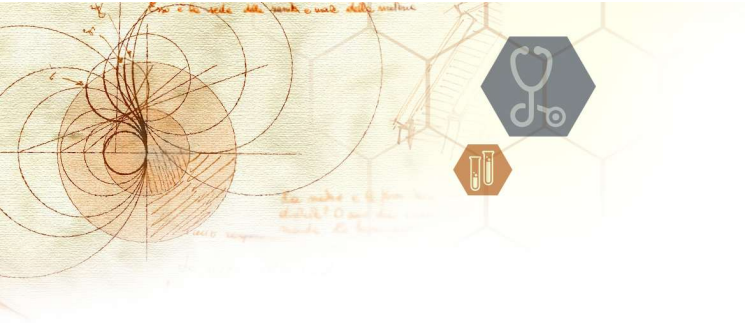
**[VISIT FAST PROJECT PAGE](#)**

**[JOIN FAST LISTSERV](#)**

**[JOIN THE PRIVATE LINKEDIN GROUP](#)**

**[FOLLOW FAST LINKEDIN PAGE](#)**

# HL7 Da Vinci Project Updates



# HL7 Da Vinci Project 2026 Multi-Stakeholder Membership

## PROVIDERS



## EHRs



## PAYERS



## VENDORS



## INDUSTRY PARTNERS



\* Indicates a founding member of the Da Vinci Project. Organization shown in primary Da Vinci role. Many members participate across categories.

<https://confluence.hl7.org/display/DVP/Da+Vinci+Project+Members>

The above listed Blue Cross and Blue Shield companies are independent licensees of the Blue Cross and Blue Shield Association.  
Rev 03/26/26



# Da Vinci 2026: Program Priorities

## Da Vinci Core Functions



## Implementation Guide (IG) Specifications: *Develop, Pilot & Adopt*

- Enhance **implementer support** for IGs named in regulations directly and/or through partners
- Foster/Stimulate **piloting and implementer community** engagement and shared-learnings
- Advance methodologies for stakeholder **feedback during IG development** cycles
- Explore **rubric for assessing IG** development investments and adoption readiness
- **Coordinate** with industry and federal partners (e.g., AAFP, AHA, AHIMA, AHIP, AMA, Cooperative Exchange, FAST, Health IT End Users Alliance, HIMSS, NCQA, Sequoia, TEFCR/RCE, WEDI, X12, and HHS's ASTP, CMS/OHEI's HIIG and NSG, HIPAA Modernization, and CMS Aligned-Networks)

## Industry & Policy Impact

- **Monitor, assess and respond** to Da Vinci IG opportunities
  - Align and support rules ASTP/ONC/HTI, CMS-0057, No Surprises Act
  - Assess related NPRMs, RFI, and other feedback cycles
- **Heighten awareness of FHIR** adoption opportunities, progress and related success metrics
- Continue to **evangelize and provide thought leadership** across Da Vinci community and key industry organizations

Da Vinci In Action: <https://confluence.hl7.org/display/DVP/Da+Vinci+In+Action+Interactive+-+Implementations+To+Date>

Da Vinci LinkedIn <https://www.linkedin.com/company/hl7-da-vinci-project>

HL7 Da Vinci Project Community Roundtable – April 2026

Da Vinci YouTube Channel:

<https://www.youtube.com/watch?v=wa9bCw6EEKA&t=2s>

Industry Statements and Updates: <https://confluence.hl7.org/display/DVP/Da+Vinci>

As of Jan 2026



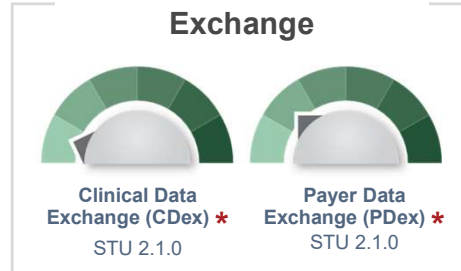
# Use Case & IG Readiness

## STU Phase:

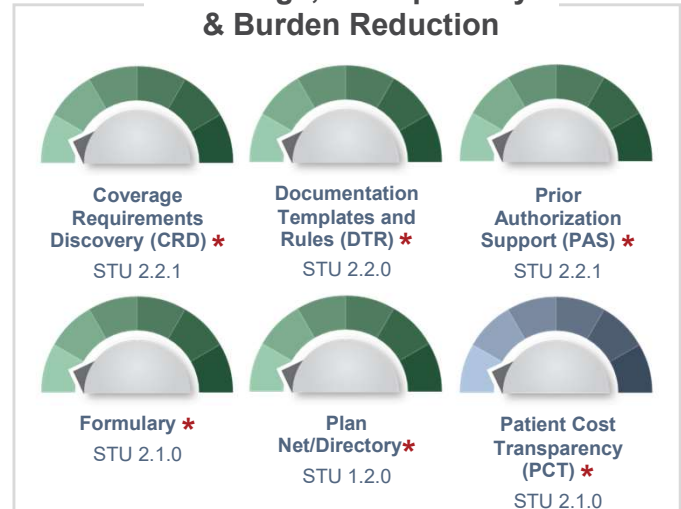
Lighter color – Early Stages  
 Darker color – Advanced Stages

\* Referenced in or supports Federal Regulation

## Clinical Data Exchange



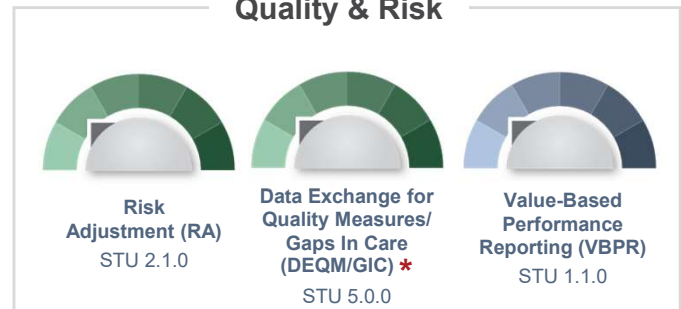
## Coverage, Transparency & Burden Reduction



## Foundational Assets



## Quality & Risk



Overall Maturity:

Most Mature

Active Growth

Least Mature

DaVinci in Action-Implementations to Date:

<https://confluence.hl7.org/spaces/DVP/pages/161057767/Da+Vinci+In+Action+Interactive+-+Implementations+To+Date>



## Use Case Updates: New Publications

- Coverage Requirements Discovery (CRD) v2.2.1: <https://hl7.org/fhir/us/davinci-crd/2.2.1>
- Documentation Templates and Rules (DTR) v2.2.0: <https://hl7.org/fhir/us/davinci-dtr/2.2.0>
- Prior Authorization Support (PAS) v2.2.1: <https://hl7.org/fhir/us/davinci-pas/2.2.1>
- Health Record Exchange (HRex) v1.2.0: <https://hl7.org/fhir/us/davinci-hrex/1.2.0/en/>
- Patient Cost Transparency (PCT) v2.0.1: <https://build.fhir.org/ig/HL7/davinci-pct/>

### Coming Soon!

- Payer Data Exchange (PDex) v2.2.0: <https://build.fhir.org/ig/HL7/davinci-epdx/>
- Risk Adjustment v3.0.0: <https://build.fhir.org/ig/HL7/davinci-ra/en/>

## Slide 27

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**CT1** CRD, DTR, PAS and HREx Implementation Guides have been published!

Coverage Requirements Discovery (CRD) v2.2.1: <https://hl7.org/fhir/us/davinci-crd/2.2.1>

Documentation Templates and Rules (DTR) v2.2.0: <https://hl7.org/fhir/us/davinci-dtr/2.2.0>

Prior Authorization Support (PAS) v2.2.1: <https://hl7.org/fhir/us/davinci-pas/2.2.1>

Health Record Exchange (HREx) v1.2.0: <https://hl7.org/fhir/us/davinci-hrex/1.2.0/en/>

We encourage implementers and stakeholders to join the weekly Da Vinci Burden Reduction community calls to ask questions, share implementation experiences, and provide feedback on CRD, DTR, PAS, and related workflows.

Casey Thompson, 2026-04-17T16:12:02.347

**CT1 0** Patient Cost Transparency (PCT)

On 3/20/26, the PCT Tech Correction IG 2.0.1 was published!

Join the next call on to learn more.

Casey Thompson, 2026-04-17T16:12:58.434

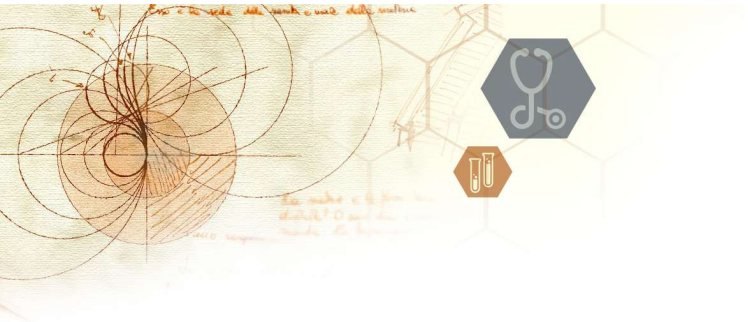
**CT1 1** Payer Data Exchange (PDex)

PDex is planning a potential STU Update related to Provider Access in 2026. More information can be found here: [PDex Implementer Support and PDex Continuous Integration Build](#).

Risk Adjustment

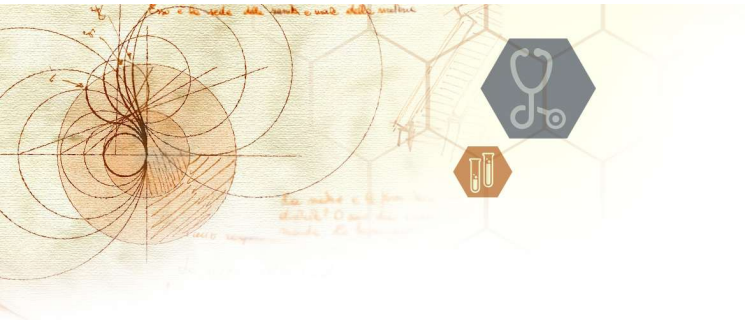
Risk Adjustment is planning an STU update in May which includes adding new operations, simplifying MeasureReports and remarks, and updating guidance so data can be submitted with a standard POST request. More information can be found here: <https://build.fhir.org/ig/HL7/davinci-ra/>.

Casey Thompson, 2026-04-17T16:13:45.707



## Patient Cost Transparency Pilots

- Patient Cost Transparency is entering year two of pilots with both payers and provider systems.
- Participants have now tested the full end-to-end workflow for Good Faith Estimates and Advanced EOBs.
- Recent testing moved beyond polling to use subscriptions for patient and provider access to AEOBs.
- The pilots also supported collaboration across multiple providers on a single estimate.
- This enables patients to receive a more holistic cost view for complex services, such as knee surgery.
- Meetings are held every other Monday at 1:00 p.m. ET.
- To get involved, contact Vanessa Candelora at [vanessa.candelora@pocp.com](mailto:vanessa.candelora@pocp.com).



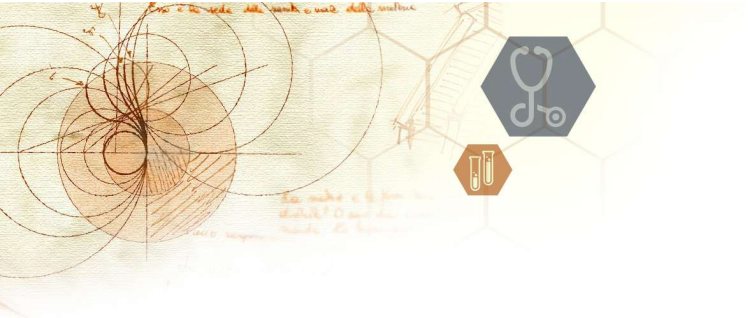
## Trebuchet Pilots New Cohorts

### New: Trebuchet Payer-to-Payer Workgroup

- The Da Vinci Trebuchet Payer-to-Payer (P2P) Workgroup is actively advancing payer-to-payer data exchange.
- The group is testing direct and networked connectivity approaches.
- A practical toolkit is in development to address endpoint discovery, data exchange governance, and member consent.
- Meetings are held every other Thursday at 1:00 p.m. ET.
- To get involved, contact Scott Rossignol at [srossignol@ehealthexchange.org](mailto:srossignol@ehealthexchange.org).

### New: Trebuchet Clearinghouse Cohort

- The HL7 Da Vinci Trebuchet Clearinghouse-to-Clearinghouse (CH-to-CH) Prior Authorization Pilot is sponsored by the Cooperative Exchange in collaboration with the HL7 Da Vinci Project.
- The pilot aims to reduce prior authorization administrative burden through scalable, standards-based interoperability between clearinghouses.
- Focuses on Clearinghouse-to-Clearinghouse (CH-to-CH) prior authorization workflows.
- Extends Da Vinci prior authorization standards beyond point-to-point implementations.



## Learn More and Get Involved!

### Bi-Weekly Calls

Thursdays, 2-3 PM ET

[Join Zoom Meeting](#)

Meeting ID: 964 8883 5514

Passcode: DAVINCI

One tap mobile

+13092053325,,96488835514# US

+13126266799,,96488835514# US (Chicago)

### Project Trebuchet

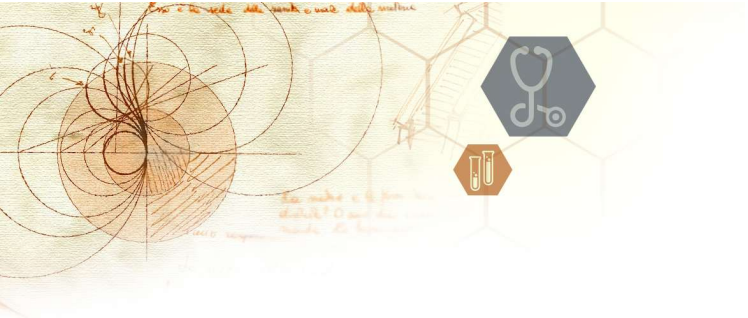
Join Project Trebuchet calls to learn more about our pilot process and [get signed up for a cohort.](#)

### Da Vinci Project

- Initial investment and project management secured through Da Vinci
- Formal process, allowing for the implementation of standards-based solutions in a standards-based way
- Process efficiencies
- Visibility
- Utilize industry relationships which already exist
- Funding model to support the creation of the standards-based way of implementation
- Expand to additional use cases (PCT pilots underway)

## Additional Resources





# COMMUNITY ROUNDTABLE

## Community Roundtable Schedule

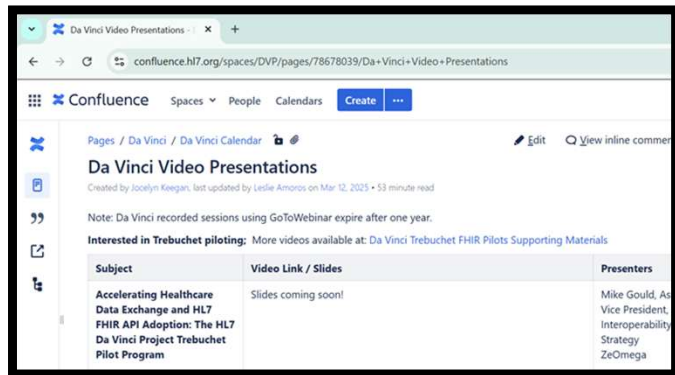
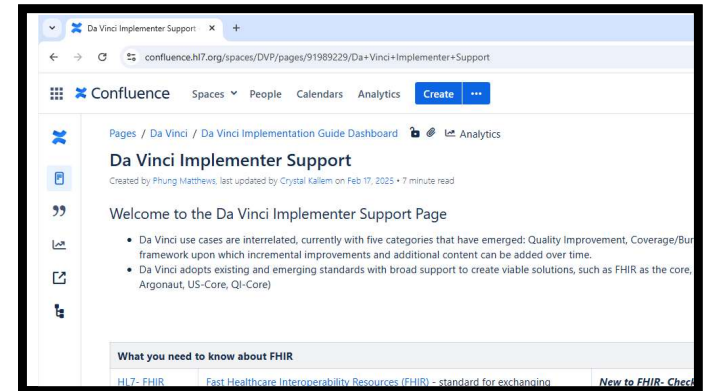
- Next meeting to be held **May 27, 4 p.m. ET**
  - Da Vinci typically holds the sessions on the 4th Wednesday at 4 pm ET
  - Stay informed through Da Vinci's [listserv](#) and [use case listservs](#)
- Registration details will be posted to the [Da Vinci Calendar](#)
- Recordings and slides available [here](#)



# IMPLEMENTER RESOURCES

## Implementer Support Page:

<https://confluence.hl7.org/spaces/DVP/pages/91989229/Da+Vinci+Implementer+Support>

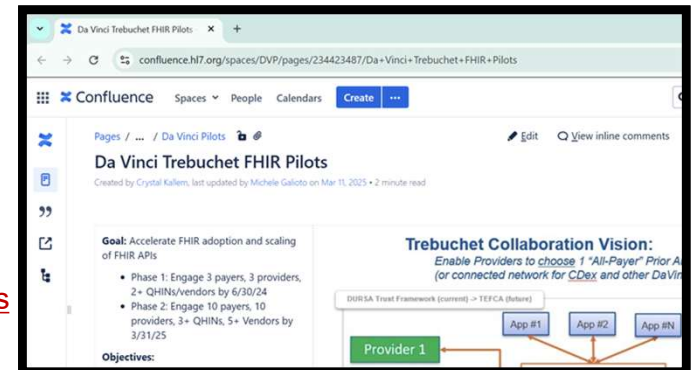


## Da Vinci Video Presentations:

<https://confluence.hl7.org/spaces/DVP/pages/78678039/Da+Vinci+Video+Presentations>

## Da Vinci Trebuchet:

<https://confluence.hl7.org/spaces/DVP/pages/234423487/Da+Vinci+Trebuchet+FHIR+Pilots>



## Patient Cost Transparency (PCT) Pilot:

<https://confluence.hl7.org/spaces/DVP/pages/234423483/Patient+Cost+Transparency+PCT+Pilot>

# Da Vinci Project Working Sessions— Join Us!

Use Case	Schedule
Value Based Performance Reporting (VBPR)	First Monday at 2pm Eastern
Postable Remittance	Quarterly on Tuesday at 1pm Eastern
Burden Reduction	Wednesdays at 11am Eastern
Clinical Data Exchange (CDex) / Health Record Exchange Framework (HREx)	Wednesdays bi-weekly at 11am Eastern (joint with Burden Reduction)
Patient Cost Transparency (PCT)	Wednesdays at 12pm Eastern
Notifications	Quarterly on Wednesday at 1pm Eastern
Trebuchet FHIR Pilots	Thursdays bi-weekly at 2pm Eastern
Risk Adjustment (RA)	Thursdays bi-weekly at 3pm Eastern
Payer Data Exchange (PDex, Formulary, PlanNet, Member Attribution)	Fridays at 1pm Eastern
CQL Questionnaire Support	Da Vinci sponsored calls ended Dec 2025: Please visit the <a href="#">Clinical Quality Information</a> WG for ongoing support.

## 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](mailto:DaVinciPMO@pocp.com)

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

<https://confluence.hl7.org/display/DVP/Da+Vinci+Welcome>

## Zulip:

<https://chat.fhir.org/#narrow/stream/179283-Da-Vinci>



# Opportunities to Join and Support Da Vinci

- As Da Vinci advances and becomes the standard for Payer Provider workflows, goal is to expand foundation, spread support of work to more participants
- Continue focus on adding breadth and depth to membership representation:
  - Continue to add multispecialty and independent providers voices
  - Increase smaller EHRs and provider vendor partners
  - Recruit small, regional and Medicare/Medicaid health plans
  - Scaling partners like candidate QHINs, networks and quality and risk vendors

## Membership Category Considerations:

- Da Vinci is an autonomous project that operates under HL7 with a separate and distinct governance process and operating guidelines to delineate difference from HL7 GOM
- Premier and Principal Members have the opportunity to nominate Associate organizations to join the Operating Committee (proxy membership) and must be approved by the operating and steering committees
- Partner membership is designed to ensure representation for providers and organizations under \$50M annual revenues. Partners approved for Member Leadership on a case-by-case basis
- Contributor is an attestation and pledge from provider organizations to support and implement Da Vinci workflows

**GET INVOLVED**

<https://confluence.hl7.org/display/DVP/Membership>

OR

Contact [davincipmo@pocp.com](mailto:davincipmo@pocp.com) with Questions or to Join

Level	Cost (000s)	Operating Committee Vote	Sponsor Associate Members*	PMO Opportunity	Pledge Resource	Access to Playbook	Access to Use Case Artifacts	Provide Feedback
Premier	\$ 70k	1	2	X	X	X	X	X
Principal	\$ 50k	1	1	-	X	X	X	X
Associate	\$ 0	1	-	-	X	X	X	X
Partner	\$ 10k	-	-	-	X	X	X	X
Contributor	In Kind	-	-	-	X	X	X	X



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**Thank You!**