HL7 FAST: SCALING FHIR APIs

AN UPDATE & INVITATION TO JOIN THE EFFORT TO INCREASE LONG TERM ADOPTION

March 2022
Presenters

Alex Kontur
Public Health Analyst, Office of the National Coordinator (ONC), Lead, ONC FAST

Patrick Murta
Chief Platform Architect, BehaVR
FAST Chief Architect
• The ONC FHIR At Scale Taskforce (FAST) (Hereinafter “Taskforce”) is committed to full compliance with existing federal and state antitrust laws.

• All members involved in the Taskforce effort, including its advisory groups, will comply with all applicable antitrust laws during the course of their activities. During Taskforce meetings and other associated activities, including all informal or social discussions, each member shall refrain from discussing or exchanging competitively sensitive information with any other member. Such information includes, but may not be limited to:
  • Price, premiums, or reimbursement charged or paid for products or services
  • Allocation of customers, enrollees, sales territories, sales of any products or contracts with providers
  • Any other competitively sensitive information that is proprietary to a member company

• If you have any specific questions or concerns, seek guidance from your own legal counsel.

• Members should not bring confidential information or intellectual property (hereinafter “Intellectual Property”) owned by their respective member companies into Taskforce meetings. To the extent such Intellectual Property is shared with the Taskforce that shall not be construed as a waiver of member company’s rights to, or ownership in, the Intellectual Property.
Agenda

• **Welcome**, Alex Kontur *(5 min)*
• **HL7 FAST Accelerator Overview**, Patrick Murta *(30 min)*
• **Industry Support of FAST**, Patrick Murta *(5 min)*
• **Next Steps**, Alex Kontur *(10 min)*
• **Questions**, Alex Kontur & Patrick Murta *(10 min)*
HL7 FAST
Accelerator Overview

Facilitator: Patrick Murta
What is the Problem?

**TODAY - Exchange**

API adoption requires point to point projects

Current adoption trajectory is slow, expensive, and at risk of significant fragmentation

**FUTURE - Interoperability**

A consistent infrastructure approach to API implementation

Consensus on implementation guides for key enablers, such as directory, security, patient matching, exchange and testing

**DESIRED RESULT:**

A national API interoperability approach that enables consistent clinical data exchange via contemporary APIs. We have precedents for this for administrative transactions (X12, clearinghouses, WEDI) and pharmacy transactions (NCPDP, Surescripts).
What is FAST?

The FHIR at Scale Taskforce (FAST) is composed of a highly representative group of motivated healthcare industry stakeholders and health information technology experts who have identified HL7® Fast Healthcare Interoperability Resources (FHIR®) scalability gaps and are actively working on solutions to address current barriers to enable scalable FHIR solutions.
### Example FHIR Transaction Journey

<table>
<thead>
<tr>
<th>Step</th>
<th>Requesting System</th>
<th>Receiving System</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Patient visits Primary Care Physician (PCP)</td>
<td>PCP needs information from Payer</td>
</tr>
<tr>
<td>2</td>
<td>Formulates FHIR Request</td>
<td>Looks Up the FHIR Endpoint for Recipient</td>
</tr>
<tr>
<td>3</td>
<td>Transaction Information (eg, Header) Appropriately Configured</td>
<td>Receives Transaction, Validates Requestor, Validates Version</td>
</tr>
<tr>
<td>4</td>
<td>Performs Patient Matching and Sends Back Not Found If Unable To Do So</td>
<td>Authenticates FHIR User’s Role</td>
</tr>
<tr>
<td>5a</td>
<td>Filters Out Data That Does Not Have Consent</td>
<td>Generates &amp; Returns FHIR Response</td>
</tr>
<tr>
<td>5b</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Steps Explained

1. **Requesting System**
   - Patient visits Primary Care Physician (PCP)
   - PCP needs information from Payer

2. **Requesting System** (Continued)
   - PCP formulates FHIR request.
   - Looks up FHIR endpoint for recipient.
   - Requests system receives data.

3. **Receiving System**
   - Receives transaction, validates requestor, validates version.
   - Performs patient matching and sends back not found if unable to do so.
   - Authenticates FHIR user’s role.
   - Filters out data that does not have consent.
   - Generates & returns FHIR response.

4. **Requesting System** (Continued)
   - PCP views patient information.

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**Examples**

- **PCP needs information from Payer**
- **Payer receives PCP request**
- **PCP views patient information**

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**Notes**

- **Identity**
- **Exchange**
- **Versioning**
- **Directory**

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**Conformance & Certification**

- **Security**
- **PILOTS**
Conceptual Integrated Architecture

Security (Authenticate/Authorize)
UDAP Trusted Dynamic Client Registration - UDAP Tiered OAuth User Authentication - UDAP JWT-Based Client Authentication - UDAP JWT-Based Authorization Assertions

Exchange Routing
Direct Connect or via Intermediaries

Intermediaries
Collaborative/Mediated Patient Matching – Collaborative/Mediated Identity Management

Identity

National Directory
Endpoints – Profiles – Versioning – Trust - Conformance

CONFORMANCE & CERTIFICATION (Testing & Certification Program)

PILOTS (FAST Capability Vetting with Existing HL7 Accelerators)
FAST Security for Registration, Authentication, and Authorization
Overview and Status – Scalable Security Solutions

BARRIER
Today, we have limitations on our ability to ensure, in a scalable way, that the requestor of information using a FHIR based information exchange is appropriately authenticated and has the authorization to see the data requested. Current registration processes are manual and too time-consuming to support expected growth.

SOLUTION
Leverage existing credentials and authorizations and best practice standards to establish common security processes that facilitate automated exchange and reuse existing infrastructure where possible.

IN SCOPE
Trusted Dynamic Client Registration using Unified Data Access Profiles (UDAP)
JWT-Based Client Authentication & Authorization

OUT OF SCOPE
Directory for Endpoint Discovery, Trust Policy Governance, Requirements for a specific architecture, Patient/provider or provider/patient

STATUS
Published IG for HL7 Sept 2021
STU Ballot

OPEN ITEMS
Ballot reconciliation
Continue testing at Connectathons

CURRENT SOLUTION
Security for Scalable Registration, Authentication, and Authorization (CI Build)
Security for Registration, Authentication, and Authorization

**UDAP JWT-Based Client Authentication:** Uses asymmetric cryptography to authenticate client apps

**UDAP Server Metadata:** Endpoint validation for added confidence

**UDAP Trusted Dynamic Client Registration:** Identify and dynamically register trusted client applications, streamlining app management

**UDAP JTW-Based Authorization Assertions:** Extensible JWT-based client authorization grants & other claims incidental to a token request

**UDAP Certifications & Endorsements:** Trusted informational assertion

**UDAP Tiered OAuth:** Reusable identities via scalable, dynamic, cross organizational use

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**Connectathon Track Page:**
2022-01 FAST Security & Identity

**Implementation Guide:**
Security for Scalable Registration, Authentication, and Authorization (CI Build)

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<table>
<thead>
<tr>
<th>HL7 Milestone</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Proposal</td>
<td>✓</td>
</tr>
<tr>
<td>Project Scope Statement (PSS)</td>
<td>✓</td>
</tr>
<tr>
<td>FHIR IG Proposal</td>
<td>✓</td>
</tr>
<tr>
<td>September 2021 Ballot</td>
<td>✓</td>
</tr>
<tr>
<td>Ballot Reconciliation</td>
<td>In Progress</td>
</tr>
<tr>
<td>Publish STU 1</td>
<td>Q1 2022</td>
</tr>
</tbody>
</table>
FAST Hybrid/Intermediary Exchange
Overview and Status – Hybrid/Intermediary Exchange

**BARRIER**
FHIR information exchange is typically performed “point-to-point” between trusted system endpoints. Because healthcare participants may also wish to leverage intermediaries in FHIR exchanges, a solution for conveying routing metadata is needed.

**SOLUTION**
Employ standard methods to convey routing information between exchange intermediaries.

**IN SCOPE**
Exchange using intermediaries in addition to point-to-point connections

**OUT OF SCOPE**
Value set defining exchange identifiers
Capturing provenance information from exchange through multiple intermediary “hops”

**STATUS**
HL7 Jan 2022 STU Ballot
In Ballot Reconciliation

**OPEN ITEMS**
Ballot Reconciliation

**CURRENT SOLUTION**
Hybrid/Intermediary Exchange Implementation Guide - Balloted
Supporting a Hybrid Exchange Model

- **Supporting a Hybrid Exchange Model**

- **HL7 Milestone**
  - **Due Date**
  - **Project Proposal**: ✓
  - **Project Scope Statement (PSS)**: ✓
  - **FHIR IG Proposal**: ✓
  - **January 2021 Ballot**: ✓
  - **Ballot Reconciliation**: In Progress
  - **Publish STU 1**: Q2 2022
FAST National Healthcare Directory
Overview and Status - National Healthcare Directory

**BARRIER**
The industry lacks a generally available method to find all FHIR endpoints and their associated capabilities and attributes, as well as a common process for maintaining the information and validating its accuracy.

**SOLUTION**
One national source for validated directory information that is available to any national or local directory workflow environment.

**IN SCOPE**
Individual and entity demographics to determine endpoint relationships, computable endpoint information such as accessibility requirements, metadata for routing, trust framework, implementation guides and certification status.

Federated access by HIEs, state directories, EHRs

A FHIR standard implementation guide for use of the directory

**OUT OF SCOPE**
Manual / portal access, creation of a trust framework, non-FHIR related endpoints, application certification process

**STATUS**
Targeting 2022 Ballot Cycle
Incorporating feedback from industry stakeholders

**OPEN ITEMS**
Define the minimum viable product (MVP) and outline the incremental steps/roadmap to build a directory of endpoints

**CURRENT SOLUTION**
National Healthcare Directory FHIR IG (Draft)
National Healthcare Directory Endpoint Query IG (Draft)
Overview and Status - National Healthcare Directory

**HL7 Milestone (May 2022 Ballot Cycle)**

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Project Proposal</td>
<td>✓</td>
</tr>
<tr>
<td>Project Scope Statement (PSS)</td>
<td>✓</td>
</tr>
</tbody>
</table>

**FHIR IG Proposals:**

1. National Directory Exchange
2. National Directory Endpoint Query
3. National Directory Attestation and Validation

**Due Date:** Sept 2022

**Healthcare Organizations and Providers contribute attested information**

- **Request validation**
- **Respond to validation**

**Issuing Organizations and Assigned Parties contribute attested endpoint information**

**Attested Endpoint information is validated against primary sources**

**Validated Healthcare/Endpoint Directory (one)**

- **Federated Directory Subscribes to specific scope of Organizations and Providers**
- **On update push information to Subscriber**

**Federated Healthcare/Endpoint Directory (many)**

**Issuer Request validation**

**Attested Endpoint Information is validated against primary sources**

**End User Application**

- **Application requests endpoint information**
- **Federated directory responds with endpoint information**

**Population/Validation Implementation Guide**

**Federated Healthcare/Endpoint Directory Implementation Guide**

**Endpoint Query Implementation Guide**
FAST Identity Management
Overview and Status - Identity Management

**BARRIER**
The industry currently employs a range of patient matching and identity management processes with inconsistencies and limited scalability as volume and the number of participants increase.

**SOLUTION**
Establish a set of patient matching and identity management patterns and best practices that the industry can adopt to reduce the variations that exist today and provide a bridge to new approaches in the future.

**IN SCOPE**
Patient matching during payer/provider interactions:
- Mediated Patient Matching
- Patient-directed workflows focusing on identity management:
  - Networked Identity Management

**OUT OF SCOPE**
Patient as a requester or responder, contractual arrangements. (Security and directory considerations are addressed by other FAST solutions)

**STATUS**
Targeting 2022 Ballot Cycle
Incorporating feedback from industry stakeholders

**OPEN ITEMS**
Define Implementation Guide scope and test proposed solutions during Connectathons

**CURRENT SOLUTION**
Interoperable Digital Identity and Patient Matching Implementation Guide (Draft)
We prioritized patient directed and payer/provider interactions focus areas.

- **Mediated Patient Matching**: Trusted Identity Providers as source of demographic data and metadata for matching.
- **Networked Identity Management**: Best practices compliant matching service using demographic data from Requestor.
- **Payer/Provider interactions**: Includes Patient directed workflows Focus on identity management.
- **Focus on patient matching**: Includes Patient directed workflows Focus on patient matching.

**Connectathon Track Page:**
- **2022-01 FAST Security & Identity**

**Draft Implementation Guide:**
- **Interoperable Digital Identity & Patient Matching**

**HL7 Milestone (May 2022 Ballot Cycle) Due Date**

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</tr>
<tr>
<td>FHIR IG Proposal</td>
<td>✓</td>
</tr>
<tr>
<td>Notice of Intent to Ballot (NIB)</td>
<td>✓</td>
</tr>
<tr>
<td>Ballot Signup Starts</td>
<td>March 1, 2022</td>
</tr>
<tr>
<td>Ballot Voting Ends</td>
<td>May 1, 2022</td>
</tr>
</tbody>
</table>
FAST FHIR Accelerator
Moving Forward - **FAST** as FHIR Accelerator

**HL7® FHIR® ACCELERATOR / COMMUNITY**

- **Payers/Providers**
- **Provider/Provider**
- **Public Health**
- **Social Determinants of Health**
- **Cancer Care and Research**
- **Consumers**
- **Other FHIR Initiatives**
- **Functional Use Cases**

**ARCHITECTURE**

- **FAST**
- **TBD**
- **Sandbox, Testing, Feedback**
- **TBD**
- **HL7 Working Groups**

**STAKEHOLDERS**

- **Non-Accelerator/Use Case Specific Initiatives**
- **SDOs**
- **IHE**
- **Frameworks/Networks/HIE**

**ADOPTION AND FEEDBACK**

- **Standards**
- **HL7 Governance Structure**
- **Government Participation/Contributions (ONC, CMS, CDC, VA, DoD, etc.)**
- **And More...**
Membership Value & Approach

Drive cost-effective interoperability to achieve the triple aim (cost, quality, outcomes).

Lead Strategy & Decision-Making
- Prioritize projects and use cases moving forward
- Drive what becomes the standard and how they are implemented

Provide Industry Thought Leadership
Position yourself and your organization as an industry thought leader

Gain Efficiencies
- Save money by minimizing the need across industry stakeholders to repeatedly address common implementation barriers encountered in most projects
- Scalable FHIR solutions leads to more ubiquitous FHIR adoption to support real-time, secure data exchange between the right stakeholders at the right time
Proposed Governance Structure Key: Cross Stakeholder

**Executive Committee: SC Chairs + PMO**

**STEERING COMMITTEE**
- Payers
- Providers
- Tech/HIT Vendors
- Govt. Agencies
- HL7

**OPERATING COMMITTEE**
- Use Case 1
  - Project Lead
- Use Case 2
  - Project Lead
- Use Case n+
  - Project Lead

**Program Management Office (PMO)**
- TBD

**Advisory Committee**
- TBD
### Initial Engagement Opportunities

An industry effort works best when key organizations drive purpose, fund the work, and support prioritization and focus.

<table>
<thead>
<tr>
<th></th>
<th>Premier</th>
<th>Principal</th>
<th>Sponsor</th>
<th>Sponsored Member</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Annual Membership Fee</strong></td>
<td>$80,000</td>
<td>$50,000</td>
<td>$20,000</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Steering Committee Seat</strong>*</td>
<td>1</td>
<td>- - -</td>
<td>- - -</td>
<td>With Approval</td>
</tr>
<tr>
<td><strong>Operating Committee Seat</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Sponsored Member</strong></td>
<td>2</td>
<td>1</td>
<td>- - -</td>
<td>- - -</td>
</tr>
<tr>
<td><strong>Opportunity to lead use case</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>- - -</td>
<td>- - -</td>
</tr>
<tr>
<td><strong>Pledge resources</strong></td>
<td>Encouraged</td>
<td>Encouraged</td>
<td>Encouraged</td>
<td>Encouraged</td>
</tr>
<tr>
<td><strong>Access to use case artifacts</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Provide feedback</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Levels other than Premier will be considered for Steering Committee membership depending upon the need to provide balance on the Steering Committee.

** Founders are organizations who have committed in writing to join by the end of March 2022.
## What Does Funding Cover?

<table>
<thead>
<tr>
<th>Subject to change based on founding member priority-setting and final accelerator structure*</th>
<th>Maintain In Flight Cost</th>
<th>Estimated Annual Cost <em>w/out in-kind support</em></th>
<th>Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Existing Projects - HL7 IGs, Future Versions (6)</strong></td>
<td>$180,000 + CMS in-kind + volunteers</td>
<td>$700,000 - $900,000</td>
<td>Project Lead, IG Writer, Ref Implementation Dev, Test Script Dev, PM</td>
</tr>
<tr>
<td><strong>HL7 Connectathons &amp; Testing Events</strong></td>
<td>Volunteer</td>
<td>TBD</td>
<td>Depends upon virtual vs. in-person and amount of on-site support needed</td>
</tr>
<tr>
<td><strong>Governance Support</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Management</td>
<td>$110,000</td>
<td>$130,000 - $200,000</td>
<td></td>
</tr>
<tr>
<td>Technical Direction</td>
<td>Volunteer</td>
<td>$140,000 - $210,000</td>
<td></td>
</tr>
<tr>
<td>Communications</td>
<td>$50,000</td>
<td>$50,000 - $75,000</td>
<td></td>
</tr>
<tr>
<td><strong>SUB-TOTAL: MAINTAIN EXISTING</strong></td>
<td>$340,000 + CMS in-kind + volunteers</td>
<td>$1M – $1.5M <em>w/out in-kind support</em></td>
<td></td>
</tr>
<tr>
<td><strong>New HL7 IGs (2-3)</strong></td>
<td>Volunteer</td>
<td>$400,000 - $600,000</td>
<td>• FAST Tiger Team solution development transitions to HL7 work  • Project Lead, IG Writer, Ref Implementation Dev, Test Script Dev, PM</td>
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<tr>
<td><strong>New Discovery Project</strong></td>
<td>NA</td>
<td>$20,000 - $25,000</td>
<td>Project Lead/Facilitator, PM; 4-month project</td>
</tr>
<tr>
<td><strong>FAST Sandbox for Reference Implementations</strong></td>
<td>NA</td>
<td>$75,000</td>
<td></td>
</tr>
<tr>
<td><strong>Implementation Support</strong></td>
<td>NA</td>
<td>TBD</td>
<td>Provide support services via implementer forums, documentation, testing tools, HL7 Ecosystem-wide Sandbox Contributions</td>
</tr>
<tr>
<td><strong>Education Events</strong></td>
<td>NA</td>
<td>TBD</td>
<td></td>
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<tr>
<td><strong>Member Onboarding</strong></td>
<td>NA</td>
<td>$20,000 - $25,000</td>
<td></td>
</tr>
<tr>
<td><strong>HL7 Convener &amp; Support Fees</strong></td>
<td>NA</td>
<td>$50,000 (Year 1)</td>
<td>$32,000 annual renewals - HL7 content management, meeting tools, contracting &amp; invoicing, HL7 sandbox access, some testing support</td>
</tr>
<tr>
<td><strong>Travel</strong></td>
<td>NA</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$340,000 + CMS in-kind + volunteers</td>
<td>$1.5M – $2M <em>w/out in-kind support</em></td>
<td>• Cost could be reduced with in-kind resources  • Cost will vary depending upon contractor rates, number and complexity of projects</td>
</tr>
</tbody>
</table>
# FAST Membership Status

<table>
<thead>
<tr>
<th>Interested</th>
<th>Ready to be a founding member – determining level of funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allscripts</td>
<td>Kaiser Permanente</td>
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<tr>
<td>AMA</td>
<td>Leavitt Partners/ The CARIN Alliance</td>
</tr>
<tr>
<td>Amazon</td>
<td>Linux Foundation Public Health</td>
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<tr>
<td>Anthem</td>
<td>Mayo Clinic</td>
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<tr>
<td>Availity</td>
<td>MCG</td>
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<tr>
<td>BCBSA</td>
<td>New Wave/ Onyx</td>
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<tr>
<td>CDC</td>
<td>Ontada</td>
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<tr>
<td>Centene</td>
<td>Rachel Foerster &amp; Associates Ltd*</td>
</tr>
<tr>
<td>Change Healthcare</td>
<td>Savage &amp; Savage LLC*</td>
</tr>
<tr>
<td>Diameter Health</td>
<td>Smile CDR</td>
</tr>
<tr>
<td>Drummond Group</td>
<td>The Kibbe Group LLC*</td>
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<tr>
<td>Edifecs</td>
<td>UC Davis Health</td>
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<tr>
<td>Epic</td>
<td>United Healthcare</td>
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<tr>
<td>Geisinger</td>
<td>UPMC</td>
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<td></td>
<td>Walmart</td>
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<td>Cigna</td>
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<tr>
<td></td>
<td>CMS (in-kind MITRE)</td>
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<td>EHNAC</td>
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<td>EMR Direct</td>
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<td>Humana</td>
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<td>Lantana Consulting Group</td>
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<td>Surescripts</td>
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<td>Tata Consulting Services (TCS)</td>
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<td>The Sequoia Project</td>
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<td>VA</td>
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*Individuals willing to support FAST as founding members*
<table>
<thead>
<tr>
<th>FAST Membership Pipeline</th>
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<tbody>
<tr>
<td>AbbVie</td>
</tr>
<tr>
<td>AEGIS</td>
</tr>
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<td>Amazon</td>
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<td>Ascension</td>
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<td>AstraZeneca</td>
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<td>BCBS IL</td>
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<td>Cleveland Clinic</td>
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Next Steps

Facilitator: Alex Kontur
Founding Member Journey

1. Express Interest in FAST Membership
   - Attend FAST Info Session
   - Meet with FAST Transition Team Member
   - Choose FAST membership & funding level
   - Sign FAST Statement of Understanding

   Learn more about FAST objectives and current work (via “live” or recorded sessions)
   If needed, discuss your organization’s goals and FAST membership options

2. Participate in FAST Founder Transition Committee
   - Ramp up on FAST activities, artifacts & tools
   - Update Decision-Making Model & Project Oversight
   - Define Year 1 Membership & Financial Models
   - Establish Initial 2022 Goals

3. Ongoing FAST Participation

   FAST Governance Committees
   - Identify Steering Committee Rep If Eligible
   - Identify Voting Member of Operating Committee
   - Finalize Governance Model
   - Finalize Membership Model
   - Finalize Financial Model
   - Select Tools & Resources
   - Finalize Staff & Project Teams
   - Continue to Prioritize Work & Set Roadmap

   FAST Workgroups
   - Identify priority projects
   - Select SME(s) from your org to participate
   - Provide input on IG scope & requirements
   - Identify technical resources from your org
   - Participate in Connectathon testing
   - Participate/vote in HL7 Ballot Cycles
   - Provide feedback during ballot reconciliation
   - Implement IGs

FAST Accelerator Launch Q1 2022
Next Steps

Ready to Become a Founding Member

1. Review HL7 FAST Statement of Understanding – standard SOU will be provided after this meeting
2. Email commitment to join FAST including the organization’s selected membership level by **March 31st**
3. Sign the HL7 FAST Statement of Understanding
4. HL7 will initiate the invoicing/payment process
5. Attend Founder Transition Committee Kick-Off Call end of March
   - Primary representatives will be contacted for scheduling, but may assign a designee to participate

*If your organization’s membership interest status was incorrectly listed in this presentation or your organization is ready to become a founding member, please email fast@hl7.org*

Interested, but Need More Information

Decide if your organization would like to become founding members by **March 31st** in order to participate in transition planning

- If you would like to further discuss how HL7 FAST fits in with your organization’s goals, please contact fast@hl7.org to schedule time with a member of the FAST Transition Team
## Simple Ways to Join FAST’s Work

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**FAST: Scalable Registration, Authentication, and Authorization for FHIR Ecosystem Participants**

Public Meetings the 1st and 3rd Tuesdays Each Month from 1-2 PM ET
[https://global.gotomeeting.com/join/262996117](https://global.gotomeeting.com/join/262996117)
Chat.fhir Stream

**FAST: National Directory**

Public Meetings: Mondays at 3pm ET
[https://zoom.us/j/98517334633?pwd=dHV0T2hrN3o1Q1NQVTNHaTVaQURSQT09](https://zoom.us/j/98517334633?pwd=dHV0T2hrN3o1Q1NQVTNHaTVaQURSQT09)
Chat.fhir Stream
[https://chat.fhir.org/#narrow/stream/283066-united-states.2Fnational.20directory](https://chat.fhir.org/#narrow/stream/283066-united-states.2Fnational.20directory)

**FAST: Interoperable Digital Identity & Patient Matching**

Public Meetings the 1st and 3rd Thursdays Each Month at 2PM ET
[https://global.gotomeeting.com/join/919790117](https://global.gotomeeting.com/join/919790117)
Chat.fhir Stream
[https://chat.fhir.org/#narrow/stream/294750-FHIR-at.20Scale.20Taskforce.20.28FAST.29.3A.20Identity](https://chat.fhir.org/#narrow/stream/294750-FHIR-at.20Scale.20Taskforce.20.28FAST.29.3A.20Identity)
Questions
Thank you!

For more information on the FAST Initiative, visit the HL7 FAST Project Page and sign up for the FAST Listserv

Have any further questions or want to discuss next steps?

Please contact fast@hl7.org