FAST Proposed Solutions - Subject Matter Expert (SME) Panel Sessions

Thank you for your interest in the *FAST* SME Panel Review Sessions!

- Each of the seven sessions is an **invite-only panel of SMEs**, identified and vetted by the *FAST* teams, *FAST* Chief Architects and ONC *FAST* Leads.
- A prep session (1-hour) and an discussion focused on the *FAST* solution evaluation session (3-hours) will be convened via video conference.
- SMEs will be asked to provide their individual expert opinion and guidance on feasibility, unintended consequences, stronger alternate approaches and best implementation path forward for the *FAST* proposed solutions

For individual session descriptions, and details on general logistics please use the menu items below or continue reading to learn more about *FAST* and the purpose of the SME Panel Sessions.

1. FHIR ENDPOINTS DIRECTORY
2. SCALABLE SECURITY SOLUTIONS
3. INDIVIDUAL IDENTITY MANAGEMENT
4. RELIABLE TRANSACTION EXCHANGE
5. SCALABLE FHIR TESTING & CERTIFICATION PLATFOR
6. METHODOLOGY FOR SUPPORTING MULTIPLE PRODU FHIR
7. SCALING REQUIREMENTS FOR FHIR RESTFUL EXCH INTERMEDIARIES

Sessions Summary

What	Why	When
Session Focus	*FAST* Proposed Solution Considerations and Goals for Discussion with the SMEs	Date and Time for the Prep and Expert Panel Sessions **(closed sessions, by invite only)**

SME Session #1 **A National Solution for FHIR Endpoint Discovery** *Session Summary Report*	A FHIR based approach for building a national endpoint directory capability, focused on easing the ability to identify endpoints currently located in multiple location by proposing a federated model that uses a single authoritative source of truth. Aims to ensure accuracy of the endpoint information and reduce burden to keep the information up to date.	• Prep Session **21 May 2020 | 4:00 - 5:00 PM EST** • SME Expert Panel Session **01 Jun 2020 | 3:00 - 6:00 PM EST**
SME Session #2 **Scalable Security Solutions** *Session Summary Report*	Develop of a scalable, easy to adopt, core security solution, using Unified Data Access Profiles (UDAP), focused on how to manage the security of millions of patient records, payers, providers and public health agencies information sharing needs at scale. Aims to provide the industry with scalable security solutions, that ensure the requestor of information using FHIR based information is appropriately authenticated and has the authorization to see the requested data.	• Prep Session **22 May 2020 | 3:00 - 4:00 PM EST** • SME Expert Panel Session **03 Jun 2020 | 3:00 - 6:00 PM EST**

SME Session #3 **National Standards Based Approaches for Individual Identity Management** *Session Summary Report*	Leverage most up to date industry considerations to build on best practices and recommendations for an appropriate, national, standards based approach for individual and organizational identity matching.	• Prep Session **18 Jun 2020 | 4:00 - 5:00 PM EST** • SME Expert Panel Session **24 Jun 2020 | 3:00 - 6:00 PM EST**
SME Session #4 **An HL7 FHIR Standard Based Solution for Intermediary-to-Intermediary Exchange and Reliable Routing with Metadata** *Session Summary Report*	A FHIR based scalable solution focused on enabling consistent and reliable transaction exchange and reliable routing with metadata across intermediaries	• Prep Session **22 Jun 2020 | 3:00 - 4:00 PM EST** • SME Expert Panel Session **29 Jun 2020 | 3:00 - 6:00 PM EST**

SME Session #5 **A Scalable FHIR Testing & Certification Platform** *Session Summary Report*	A Testing & Certification approach focused on ensuring standard conformance for scalable FHIR based solutions.	• Prep Session **07 Jul 2020 | 4:00 - 5:00 PM EST** • SME Expert Panel Session **13 Jul 2020 | 3:00 - 6:00 PM EST**
SME Session #6 **Methodology for Supporting Multiple Production Versions of FHIR** *Session Summary Report*	The proposed solution aims to address issues related to the existence of multiple versions of FHIR in production (e.g., DSTU2, STU3, R4) with breaking changes between them. Until FHIR becomes “normative” (i.e., content is stable between versions), the industry will need a way to manage different representations of the same information in different FHIR versions. The *FAST* team has proposed a solution for how to handle version control more effectively in various scenarios, potential tooling to reconcile different versions, and recommendations for what organizations can do to mitigate these issues.	• SME Expert Panel Session **15 Nov 2021 | 3:00 - 5:00 PM EST**

SME Session #7 **Scaling Requirements for FHIR RESTful Exchange Intermediaries** *Session Summary Report*	Intermediaries will be needed to scale FHIR across a growing number of healthcare ecosystem participants in anticipation of future healthcare needs and increased transactions embedded in clinical workflows. Yet there are no "rules of the road" for intermediaries to meet minimum requirements for performance, availability, or response times in support of synchronous end-to-end real-time data exchange. The *FAST* team has proposed a solution intended to support: • The ability to utilize intermediaries to reduce the complexity of connecting with a large number of endpoints and managing authentication and authorization with each • Predictable intermediary performance to meet real-time exchanges	• Prep Session **02 Dec 2021 | 4:00 - 5:00 PM EST** • SME Expert Panel Session **06 Dec 2021 | 3:00 - 6:00 PM EST**

FAST SME Panel Sessions Goals :

- Reach consensus on the need for and approach of the proposed solution *(Using Endpoint Discovery as an example i.e., Do we agree that single source should be federated?)*
- Identify alternative approaches that should be considered based on existing practice/experience (*Using Endpoint Discovery as an example e.g., reach consensus that there should be a single source of API endpoint information for providers and payers or identify competing models to entertain)*
- Once consensus is reached:
    - Identify potential challenges/barriers to implement the proposed solution
    - Identify additional requirements that may be needed to implement the proposed solution approach
    - Reach consensus on proposed industry path forward, and identify potential 'owners' who could execute upon the proposed solution *(i.e., Is CMS the right path forward/right 'home' for this solution? Are there other homes/owners/constituents that could execute this?)*
    - Identify next steps to move this effort forward *(i.e., Develop RFI or RFP, who issues it?)*

SME's who choose to participate in the *FAST* SME Sessions will have the opportunity to get an early look at the proposed solution(s) for their respective focus area and help shape the final output which will have an impact industry-wide.

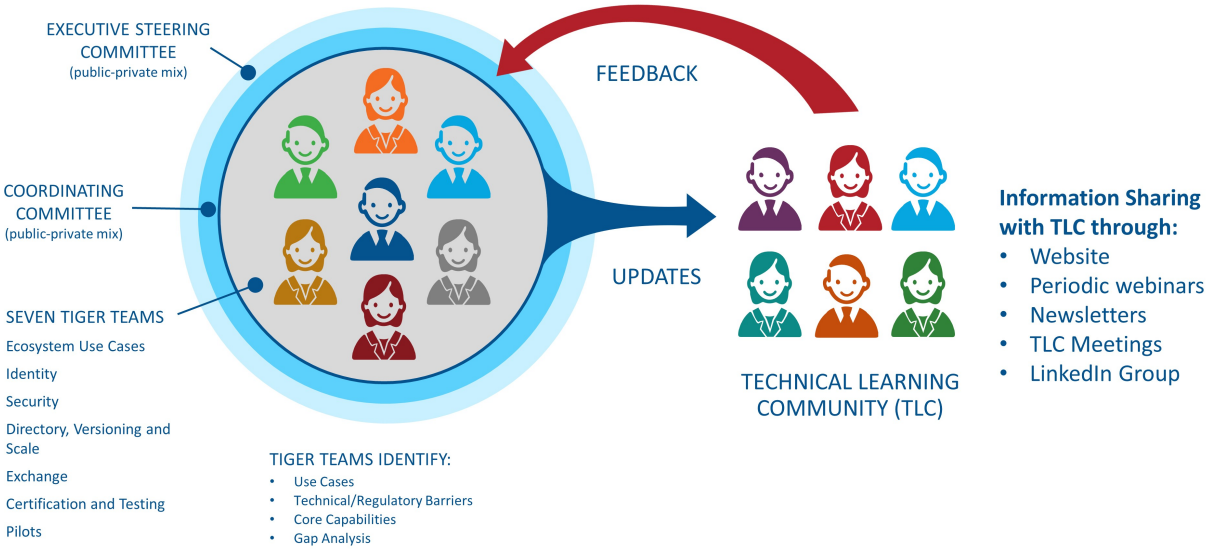
FAST Organization & Structure

With ONC serving as the convener, the *FAST* collaborative adopted a taskforce model to leverage the knowledge and expertise of various SMEs across the healthcare continuum. The seven Tiger Teams aim to develop proposed approaches to address the barriers to FHIR-based solutions scalability, through additional standards work, processes, or proposed regulatory measures.

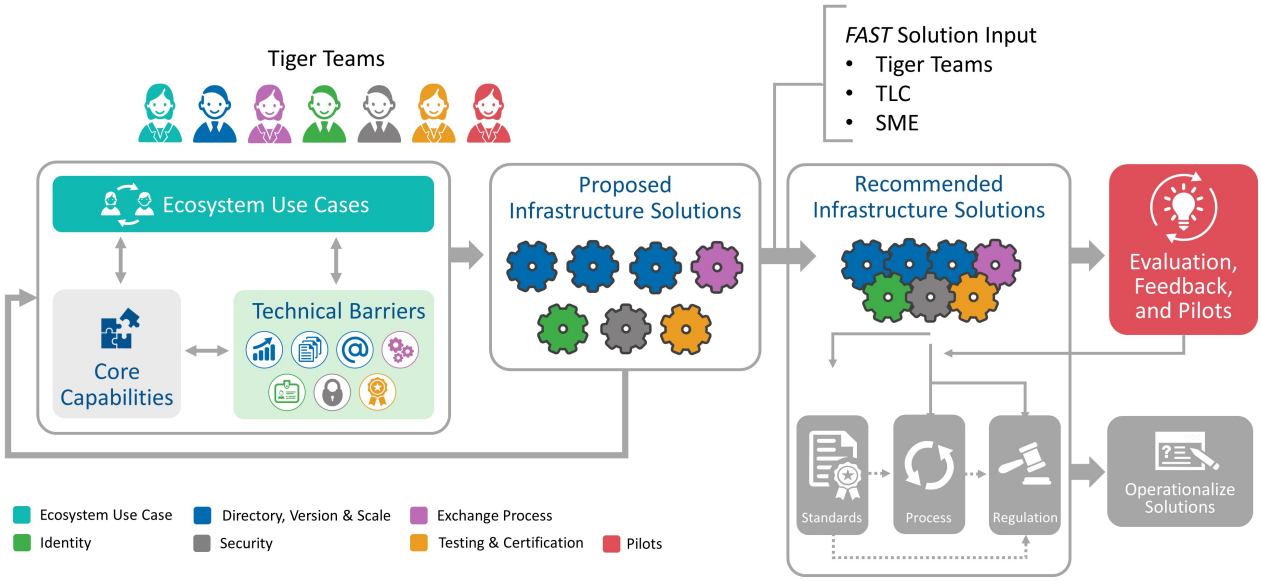
Two *FAST* Chief Architects ensure the taskforce is focused on the industry's most relevant infrastructural challenges and solutions.

The *FAST* Coordinating Committee and the Executive Steering Committee are comprised of a public-private mix of significant, top industry leaders that review and further guide the taskforce work.

A large technical learning community (TLC) provided feedback and validation as part of the solution development process.



ONC FAST Organization and Structure

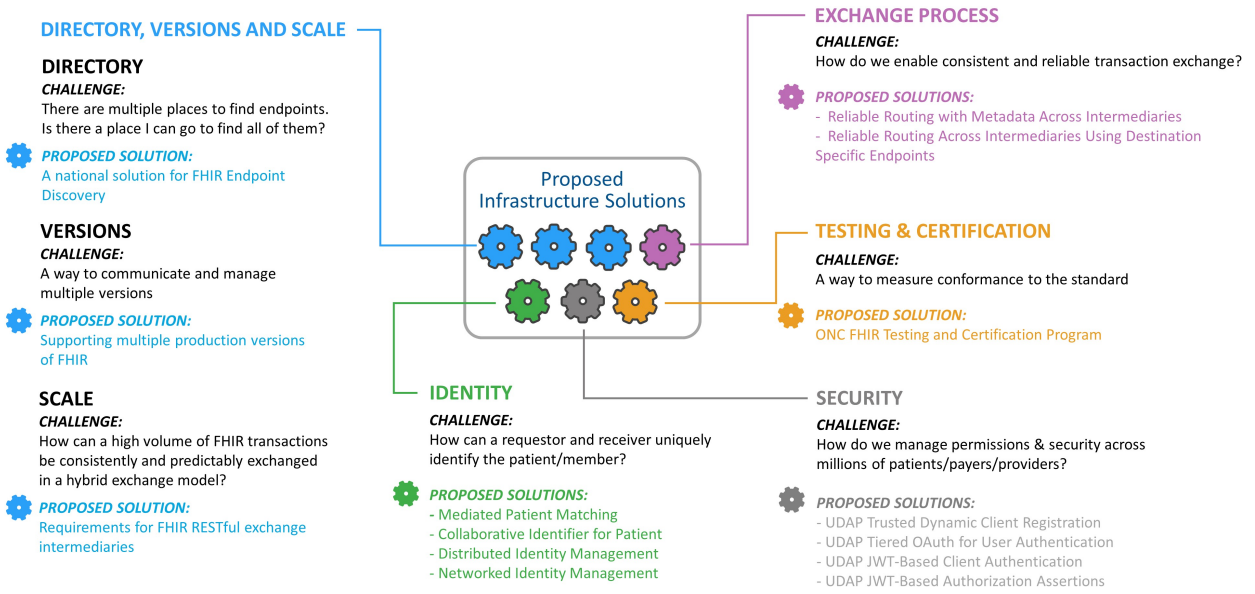


FAST Work & Process

- 15 ecosystem use cases, developed by the *FAST* Ecosystem Use Cases Tiger Team, reflect the the infrastructural needs for the industry functional use cases to scale and ensure an efficient and scalable model to support data exchange and accelerated FHIR adoption.
- A gap analysis identified 35 technical and regulatory barriers that need to be overcome, and 15 core capabilities required to develop scalable FHIR solutions.
- 11 proposed solutions were developed across five Tiger Teams: Directory, Versions and Scale; Identity; Security; Exchange Process; Testing & Certification
- Over 1900+ people attended six interactive TLC webinars and various industry meetings and provided relevant feedback which helped refine the proposed solutions to their current status.

We look forward to collecting your feedback via the upcoming *FAST* SME Panel and include it in our final taskforce deliverable which will support the scalability of the industry FHIR based solutions

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Proposed Solutions

The proposed solutions depicted in the diagram have been developed by each of the respective Tiger Teams.

These proposed solutions were already presented to the *FAST* Technical Learning Community for feedback which has been incorporated as appropriate in the current version the our proposed solutions.

The next step is where you come in. We are convening SME Panel Sessions to further refine, validate and determine best way to operationalize each of these proposed solutions.

Below is a full list of the proposed solutions and the form the Tiger Team believes may be the best format for use by the industry.

Contact Us

If you have any further questions, comments or would like more information please contact the ONC *FAST* Lead: Alex.Kontur@hhs.gov. To stay up to date with *FAST*, join the FAST TLC LinkedIn Page.