eHealth Exchange

TEFCA Monthly eHealth Exchange Technical Webinar TEFCA Hub Development Updates

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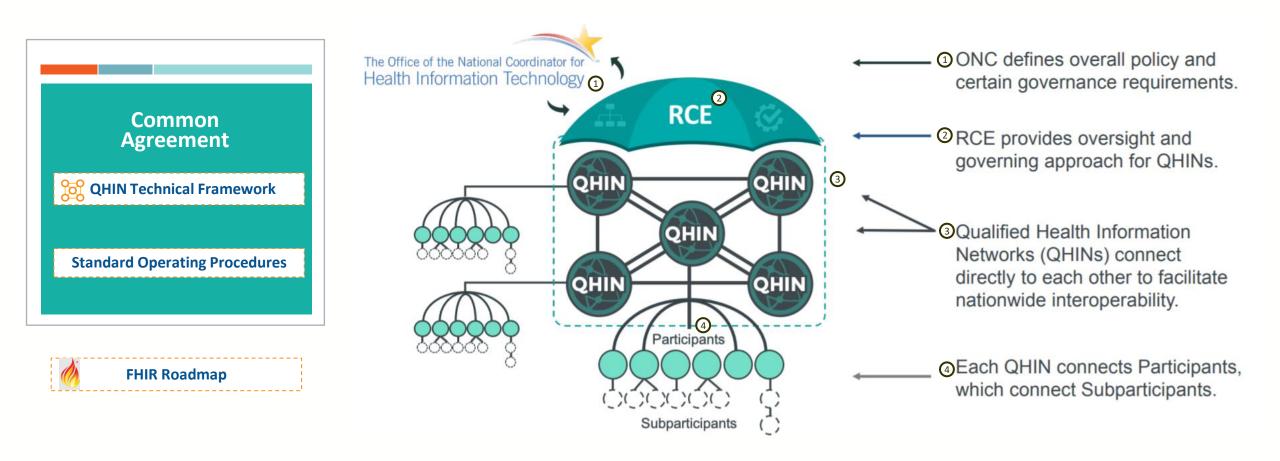
Agenda

- TEFCA Overview Reference
- TEFCA Monthly Technical Webinar Series
- ONC/HHS/RCE Announcement
- Updated FHIR Roadmap for TEFCA Exchange
- TEFCA Hub Technical Readiness
- TEFCA Readiness Checklist Updates
- Open Discussion / Q&A
- For More Information (Including Office Hours)



TEFCA Overview - Reference

How will TEFCA Work?



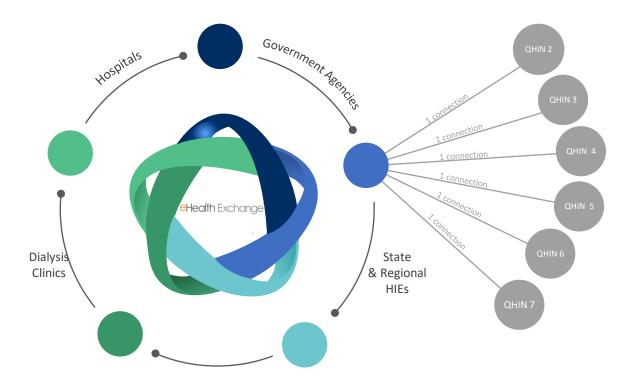
What is the Trusted Exchange Framework (TEFCA)?

It's a federally endorsed governance framework for **cross-network** exchange of healthcare records.

Similar to Carequality, it's a framework, and <u>not</u> a network:

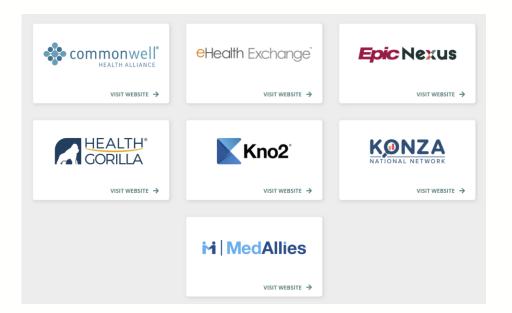
- Technical & policy agreements
- Governing structure
- Federated architecture

Enables healthcare organizations connected to a TEFCA Qualified Health Information Network (QHIN) to exchange patient data with other healthcare organizations connected to other QHINs.



Which networks plan to exchange via TEFCA?

The HHS announced that the <u>eHealth Exchange</u> is one of six applicants that have had their applications to become a Qualified Health Information Network (QHIN) approved



It's not yet clear which healthcare organizations will agree to exchange via TEFCA. Will yours?

Source: https://rce.sequoiaproject.org/candidate-qhins/



Inaugural QHIN Candidate

Intent to Participate from 11 HIEs Operating in 15 States Serving up to 126 Million Patients



AL, AK, AZ, CA, CO, CT, DC, GA, IA, IN, MD, NE, TX, VA, and WV

What's changing?

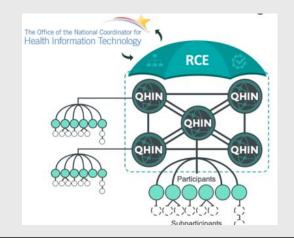
Prior to eHealth Exchange Connecting with TEFCA

Your organization can exchange with the eHealth Exchange's 320+ health systems, federal agencies, providers and provider collaboratives.



Once eHealth Exchange Goes Live on TEFCA

<u>**Option</u>** for your organization to **also** exchange with healthcare organizations participating in TEFCA QHINs.</u>



How is the eHealth Exchange different?

eHealth Exchange

- National non-profit focused on the Public Good
- Single technical connection instead of hundreds
- ✓ Vendor agnostic
- ✓ 24x7x365 monitoring
- Enforced content quality assurance
- ✓ Analytics dashboard
- ✓ Broad federal agency connectivity
- ✓ Trust (no patient tracking, no selling data)

Other Networks

- Single technical connection instead of hundreds
- Vendor agnostic
- ▲ 24x7x365 monitoring
- Mandatory content testing
- Analytics portal dashboard
- Broad federal agency connectivity

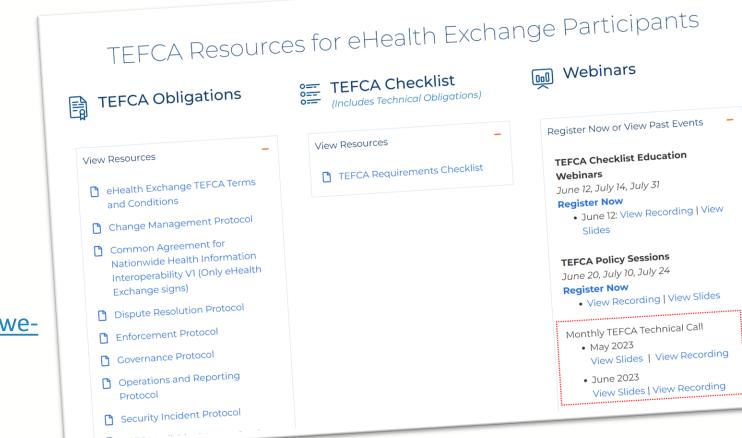


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TEFCA Monthly Technical Webinar Series

eHealth Exchange TEFCA Monthly Webinar Series

- Today's webinar is part of a series
- Prior webinars covered:
 - TEFCA Readiness Checklist
 - Individual Access Services Providers
 - Reporting Requirements
 - Error Handling
 - And more
- Prior webinars can be found at:
 - <u>https://ehealthexchange.org/what-we-</u> <u>do/tefca-and-ehealth-exchange/</u>



ONC/HHS/RCE Announcement

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PRESS RELEASES, RCE, THE SEQUOIA PROJECT NEWS • DECEMBER 12, 2023

ONC and The Sequoia Project Designate First TEFCA QHINs

TEFCA Goes Live On Schedule

(Washington, DC – December 12, 2023) – The Sequoia Project, selected by the Office of the National Coordinator for Health Information Technology (ONC) as the Recognized Coordinating Entity[®] (RCETM) to support the implementation of the Trusted Exchange Framework and Common AgreementSM (TEFCASM), today, on behalf of ONC, designated the country's first Qualified Health Information NetworksTM (QHINsTM) in a Common Agreement signing event alongside HHS Secretary Xavier Beccera, HHS Deputy Secretary Andrea Palm, and National Coordinator for Health Information Technology Micky Tripathi, in Washington, DC.

The newly designated QHINs include eHealth Exchange, Epic Nexus, Health Gorilla, KONZA National Network, and MedAllies.

"The OHIN selection and onboarding process was necessarily arduous to ensure the pioneering



SequoiaProject.org

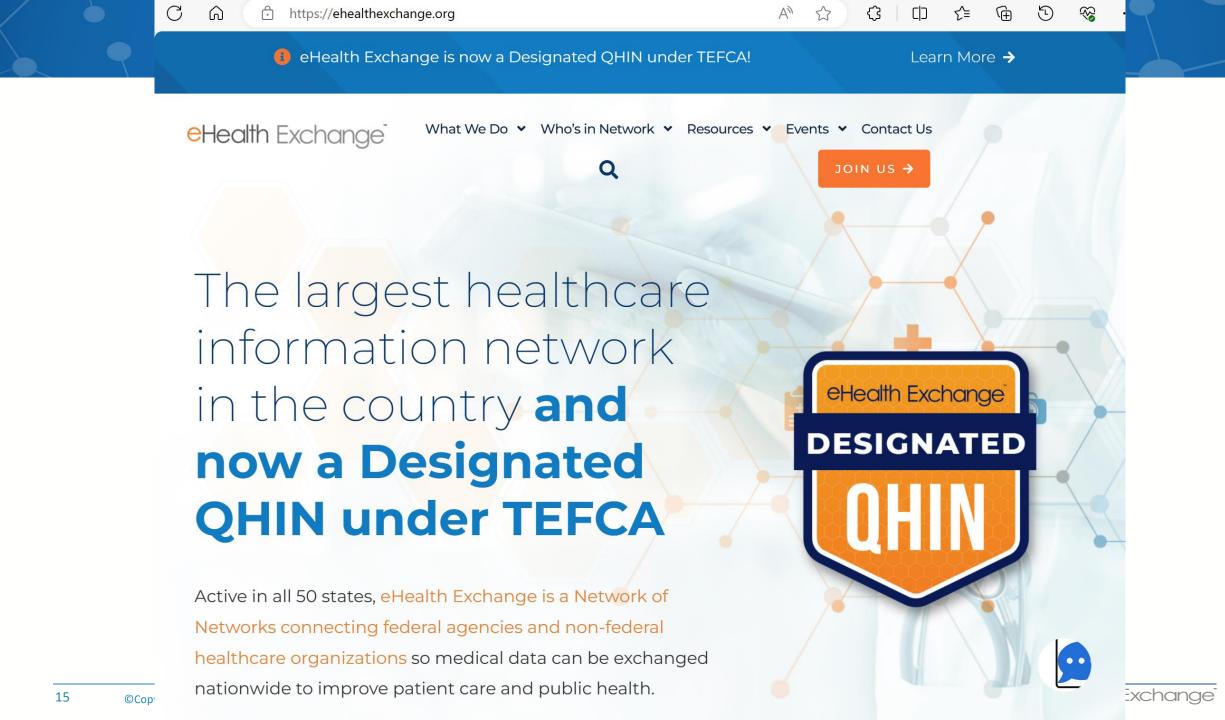
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Meet the Designated QHINs

Below are organizations that have successfully completed the Qualified Health Information Network[™] (QHIN[™]) onboarding process and are recognized as Designated QHINs for TEFCA exchange. There are additional Candidate QHINs still in the onboarding phase listed <u>here</u>.

Epic Nexus	eHealth Exchange
VISIT WEBSITE →	VISIT WEBSITE ->
KONZA NATIONAL NETWORK	HEALTH® GORILLA VISIT WEBSITE →
	MedAllies





Updated FHIR Roadmap for TEFCA Exchange

TEFCA FHIR Exchange Roadmap

Stage 2

Planned Stages of FHI

Stage 1 **FHIR Content Support**

- ✓ FHIR exchange possible within QHINs' own networks
- ✓ IHE exchange of FHIR payloads between QHINs[™] is possible with "out-of-band" coordination.

UPDA SOATED Network-Fac Exchange ✓ QHIN[™]-facili exchange av option unde ASTAG9U



IR® Roadmap for TEFCA change

ary 2022

on 1

HHS) under grant

Source: https://rce.sequoiaproject.org/three-year-fhir-roadmap-for-tefca/

TEFCA FHIR Exchange Roadmap

Stage 2

Workgroup and Pilots

2025

Stage 3

QHIN-Facilitated FHIR Exchange

2026

Version 2.0

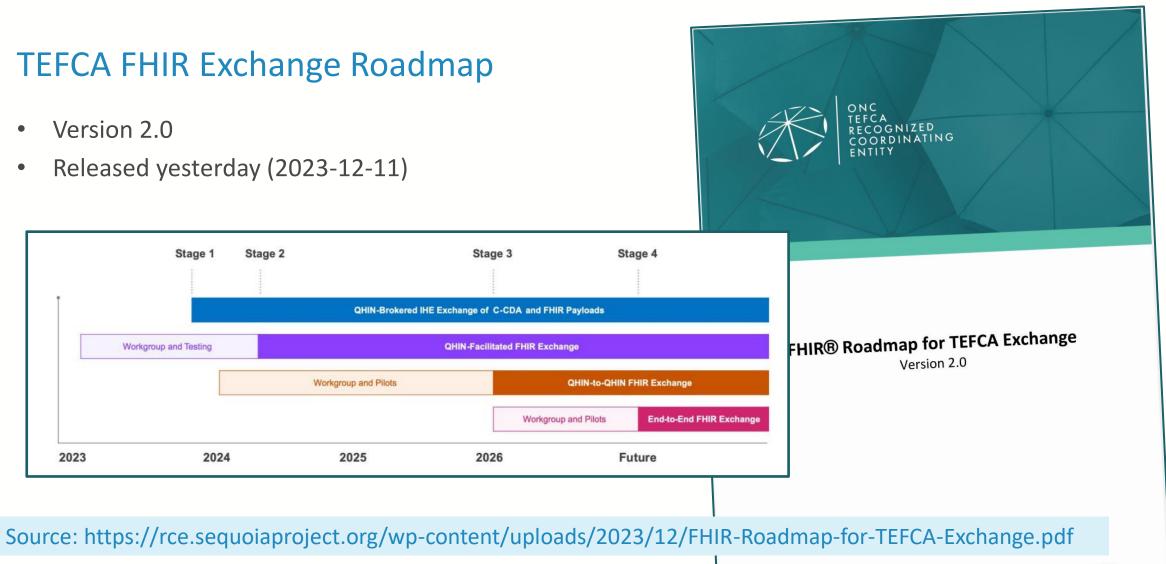
2023

Released yesterday (2023-12-11)

Stage 1

2024

Workgroup and Testing



Summary of Updates

- A new version of the FHIR[®] Roadmap for TEFCA Exchange was released yesterday
- RCE states version 2.0 "Completely supplants" the prior version (1.0)
- Recognizes ongoing FHIR intermediary pilots are already occurring
- Explicitly intended to bridge with the RCP states are "parallel tracks" of FHIR interoperability
 - ONC Certified Electronic Health Records
 - Health Information Exchanges using FHIR
- The term "Brokered FHIR" has mostly been replaced with the term "QHIN-to-QHIN FHIR Exchange"
- Also introduces the term "End-to-end FHIR Exchange"
- The following is a summary of this RCE document

RCE Focus on FHIR

 "We expect to accelerate adoption as FHIR APIs for general use are now required in all ONC-certified EHR systems as of the end of CY 2022 and in patient access APIs by CMS-regulated payers, and are proposed for provider access, payer-payer exchange, and prior authorization APIs by CMS-regulated payers." (emphasis mine)

RCE Focus on FHIR

- "Network exchange is essential to business-to-business (B2B) clinical interoperability"
 - Simple
 - High-volume
 - High-reliability
 - High-trust exchange patterns
 - Scalable
 - Secure
 - Well-established
- "Many elements in TEFCA were built to support existing network exchange"
- "TEFCA components such as endpoint directories, record location services, and security certificate
- infrastructure can dramatically enhance the scalability of currently deployed FHIR APIs to meet
- the demands of the network exchange built on TEFCA."

Technical Approach

- QHIN-to-QHIN FHIR Exchange
 - Allows for FHIR between QHINs
 - Does not mandate FHIR for internal networks
- End-to-End FHIR Exchange
 - FHIR exchange directly between TEFCA members
 - Includes use of the QHIN as an intermediary
 - Focus of future research
- FHIR is permitted on day one of TEFCA exchange
 - Not profiled or defined by the QTF
 - Private agreements are indicated
 - Would use FHIR payloads in IHE transactions

Each stage will \bullet be supported by a new version of the QTF and managed via the change management process in the Common Agreement.

PLANNED STAGES OF FHIR AVAILABILITY IN TEFCA

The roadmap envisions four stages of FHIR exchange in TEFCA. Requirements for each stage build on the previous stage:

- Stage 1: FHIR Content Support
 - Included as part of the initial launch of TEFCA.
 - QHIN-brokered IHE exchange of FHIR payloads between QHINs available.
- Stage 2: QHIN-Facilitated FHIR Exchange
 - QHIN support for facilitated FHIR API exchange required.
 - Participant and Subparticipant exchange via FHIR APIs available.
- Stage 3: QHIN-to-QHIN FHIR Exchange
 - Support for exchange between QHINs via FHIR APIs required.
- Stage 4: End-to-End FHIR Exchange
 - Support for QHIN-brokered FHIR Exchange between Participants and Subparticipants.

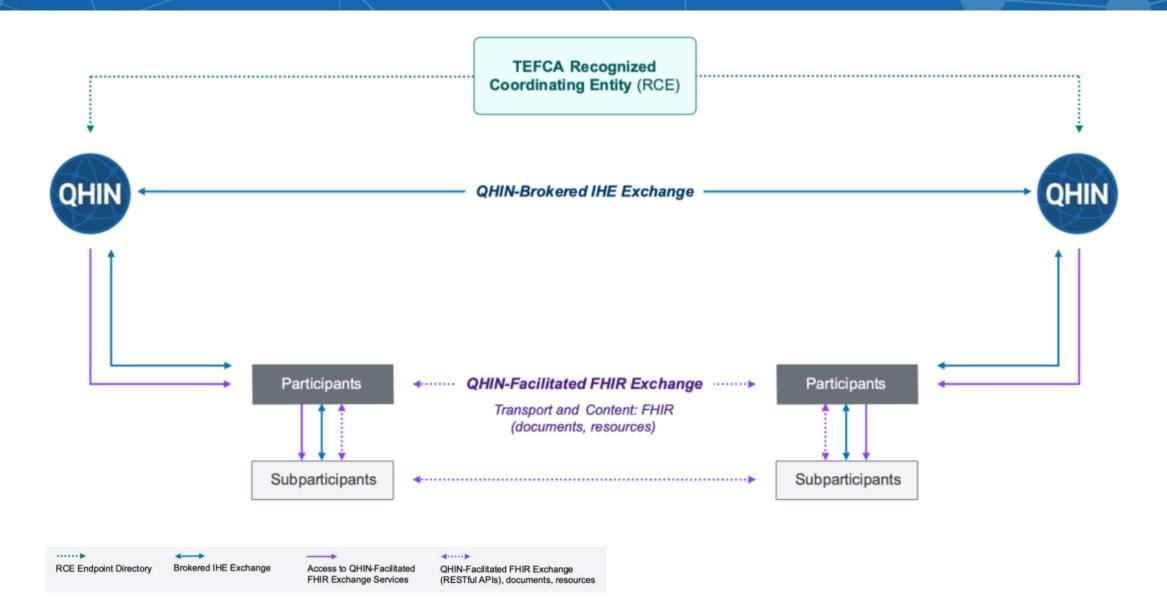
Stage 1: FHIR Content Support

- Available from "day one" of TEFCA Trusted Exchange
- Based in XCA IHE profiles
- HL7 C-CDA R2 Implementation Guide
- FHIR content is allowed, but not profiled
- Requires private agreements
- Thus not interoperable at scale



Stage 2: QHIN-Facilitated FHIR Exchange

- Work by the ONC commenced in 2023
- Leverages ONC requirements for FHIR APIs in certified EHRs by the end of CY 2022
- Acknowledges that direct end point to end point exchanges are occurring now
- Current exchange could be bolstered by:
 - FHIR endpoint directory
 - Record location services
 - Security certificate infrastructure
 - Uniform contracting
 - Transparent rules-of-the-road
- HL7 Connectathon tested
- QHINs must support both IHE XCA exchange and QHIN-Facilitated FHIR Exchange

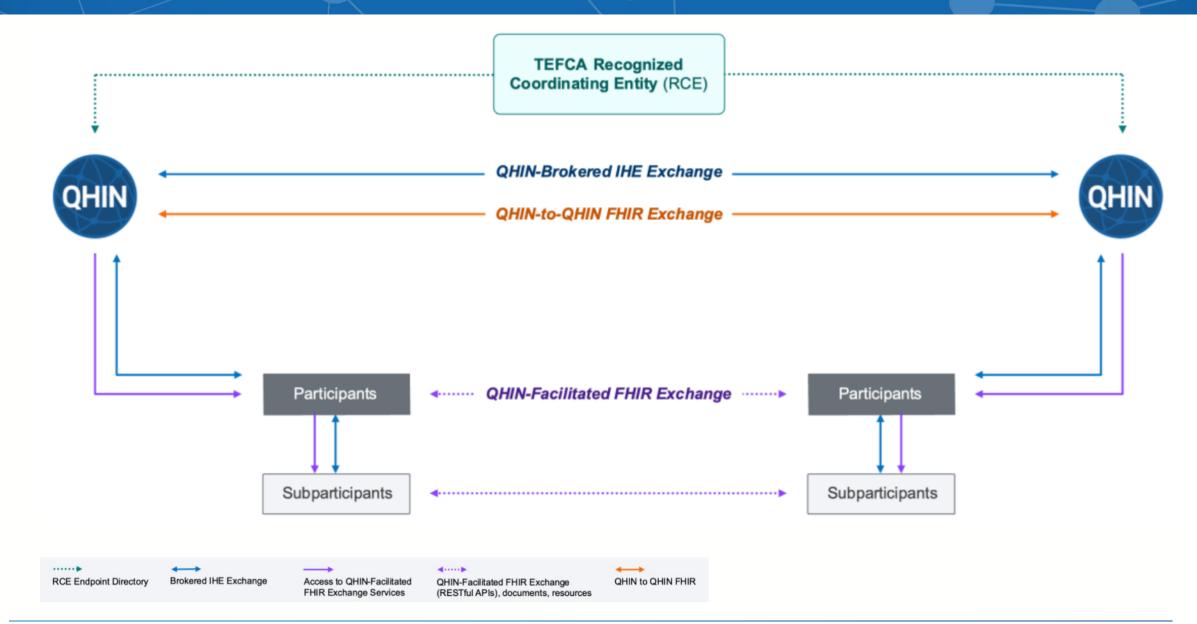


Stage 2: RCE Identified Work Items

- Adjustments needed to support FHIR exchange
- Any needed additional technical specifications
- QHIN FHIR API security infrastructure
- Overall trust model
- FHIR endpoint directory
- Patient matching
- Record locator services
- Identification verification services
- Issuing certificates
- Dynamic client registration
- Other potential services.

Stage 3: QHIN-to-QHIN FHIR Exchange

- Will build on TEFCA FHIR Stage 2
- Introduces brokered FHIR-based exchange between QHINs
- Enables QHINs to leverage FHIR-based exchange between QHINs
- Allows non-FHIR approaches within the QHINs' internal networks
- QHINs must support QHIN-Facilitated FHIR Exchange too
- Expected to require an update to the QTF



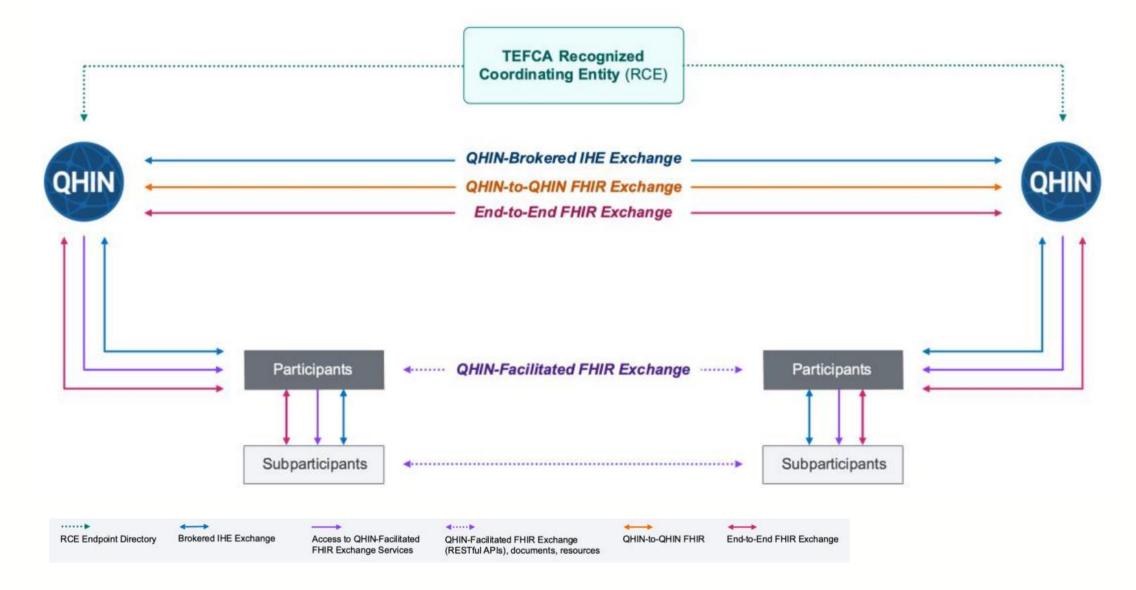
Stage 3 RCE Identified Work Items

- Pilots expected in CY 2025
- IGs will be developed soon after the pilots are completed
- Updated QTF
- Updated infrastructure by QHINs and the RCE during CY 2026



Stage 4: End-to-End FHIR Exchange

- "Intended to permit a Participant/Subparticipant to seamlessly exchange FHIR data between themselves and other network members through the QHINs and multiple other intermediaries both within a QHINs' network and through the TEFCA-governed network"
- RCE states this requires significant development
- Security
- Privacy
- Data preservation
- Multiple intermediaries creates new challenges:
 - Privacy
 - Security
 - Performance



Stage 4 RCE Identified Work Items

- Research into optimal methods for secure exchange
- Pilot with TEFCA users
- Driven by market needs in
 - QHIN-Facilitated
 - QHIN-to-QHIN FHIR Exchange methods
- Adapted future FHIR Roadmap
- Developed under TEFCA's collaborative participation and governance process

Next Steps

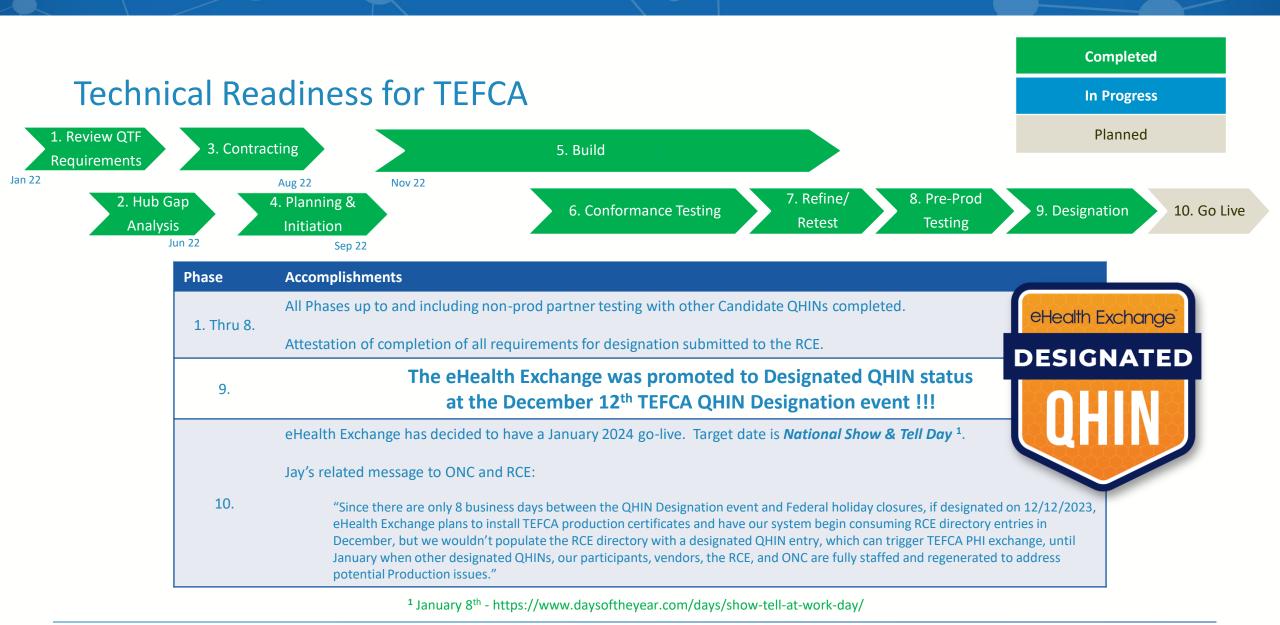
- RCE has launched working groups
 - Update the QTF
 - Further develop the use of FHIR
 - QHIN-Facilitated
 - QHIN-to-QHIN
 - End-to-End FHIR
- "Experience gained regarding standards, workflows, implementation/operations, and market needs will inform any necessary future adjustments to the timeline detailed later in this document."
- "TEFCA approach to governance, oversight, and QHIN-based architecture will remain"
- eHealth Exchange analysis

Source: https://rce.sequoiaproject.org/wp-content/uploads/2023/12/FHIR-Roadmap-for-TEFCA-Exchange.pdf

TEFCA QHIN Technical Readiness Roadmap

Technical Readiness for TEFCA





TEFCA Readiness Checklist Updates

For More TEFCA eHealth Exchange Information

<u>https://ehealthexchange.org/what-we-do/tefca-and-ehealth-exchange/</u>



Q&A/Open Discussion

For More Information

Major Technical Differences eHealth Exchange QHIN Participants Must Support

- 1. Adopt USDCI v1 data classes and elements
- 2. Adhere to the Concise Consolidated CDA 1.1 Specification
- 3. Adhere to Project US@ patient addressing
- 4. Adopt IHE ITI Technical Framework Revisions 17.0 (versus Revision 8.0)
- 5. Accept aggregated XCPD responses
- 6. Various requirements such Purpose Of Use values, different consent attribute structure, sub-participant directory entries and detailed reporting, onboarding log submissions, specific test patients, and quarterly reporting.

Next Steps

Review the published policy documents (not discussed today)
Review the TEFCA Readiness Checklist
Let the eHealth Exchange staff know of your organization's intentions (if you haven't already)

email: administrator@ehealthexchange.org



How might I obtain additional information?

How	When	Where
1. Visit eHealth Exchange Web Site	Any time	<u>https://ehealthexchange.org/what-we-</u> <u>do/tefca-and-ehealth-exchange</u>
2. Monthly Participant Web Meetings	Typically, the 3rd Thursday of Each Month at 1 pm ET	https://ehealthexchange.org/events
3. Monthly TEFCA Technical Call	Dec 12, 2023 , more dates coming soon!	https://ehealthexchange.org/events
4. Email	Any time if you have a specific question	administrator@ehealthexchange.org
5. TEFCA Office Hours (Q&A)	10/25, 11/29, 12/11 , 1/8, 1/24	administrator@ehealthexchange.org