Carequality Annual Meeting

2022

Grand Hyatt Washington

Implementing FHIR Bill Mehegan



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Implementing FHIR - Agenda

- Background
- Current State of Affairs
- Panel Discussion



Background

- Why FHIR® (Fast Healthcare Interoperability Resources)?
 - The latest HL7® standard, following V2 and others
 - Allows you to target specific data elements (FHIR Resources) with laser precision
 - Bundle FHIR Resources to form message and documents
 - More flexible than other standards
- In 2018, Carequality began its work on establishing a FHIR Based Exchange ecosystem
- Over the next 2 years, workgroups were formed, Connectathons occurred, and there
 was a lot of industry collaboration
- In December of 2020, V1 of the Carequality FHIR Based Exchange Implementation Guide (IG) was published

Current State of Affairs

- Carequality is still waiting for its 1st FHIR Exchange applicant. But the industry kept moving and so did we
- In Feb of 2022, a workgroup was formed to address some updates that were needed to the original IG
 - UDAP (Unified Data Access Profiles), which was heavily referenced in the IG, became an HL7 standard
 - The Framework Policy Document became an official Carequality Element, thus making much of the IG policy language redundant (and removed wherever possible)
- V2 of the FHIR Based Exchange IG is 99% complete and we expect to publish it in January of 2023

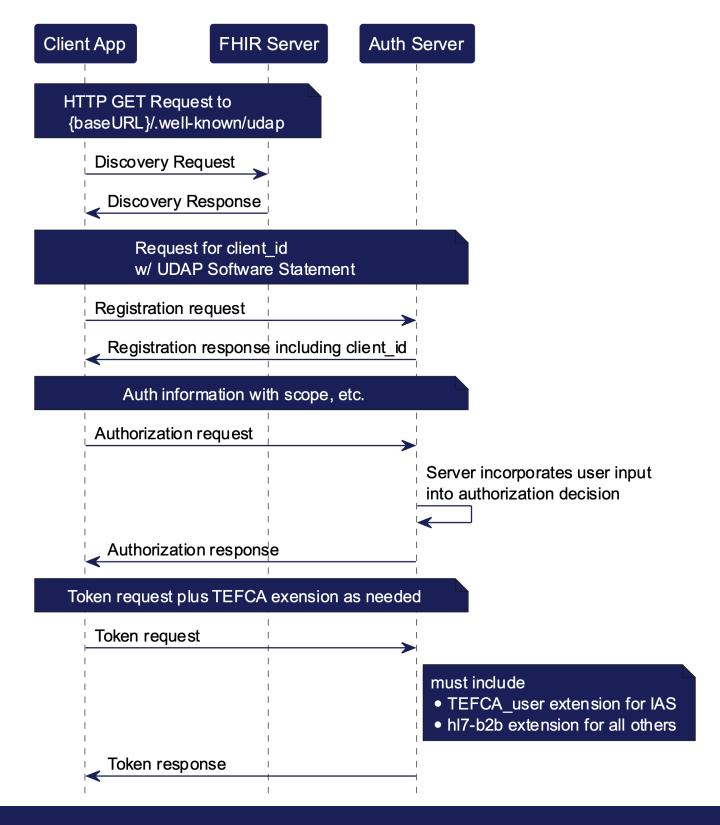
UDAP Recap

A quick summary of UDAP and Client Dynamic Registration with Dave Pyke

Authentication and Authorization

- Due to the scale of the Network, automation of the authorization and authentication process is an absolute necessity
- Carequality is requiring the use of the UDAP protocol as specified in the <u>HL7/UDAP Security for Scalable Registration, Authentication, and Authorization</u> FHIR IG
 - Is an extension on the OAuth 2.0 workflows
 - Allows for automation of client_id issuance and works well with SMART on FHIR as well as has its own authentication framework

UDAP Flow



Requirements

- Conform to the mandatory requirements in <u>RFC 7515</u> (JSON Web Signature) and <u>RFC 7519</u> (JSON Web Token)
- Conform to the additional JWS header and JWT claims requirements in TEFCA Facilitated FHIR Implementation Guide
- Be digitally signed using the signer's private key that corresponds to the public key listed in the signer's TEFCA X.509 certificate
- Be digitally signed using one of the permitted signature algorithms listed in the guide
- Include the signer's TEFCA X.509 certificate in the 'x5c' JWS header parameter array as per <u>Section 4.1.6 of RFC 7515</u>
- Be serialized using JWS Compact Serialization as described in <u>Section 7.2 of</u> <u>RFC 7515</u>

Panel Discussion



Jason Vogt Meditech



Dave Pyke Audacious Inquiry



Jennifer Blumenthal OneRecord



Marilee Benson Zen Healthcare IT



Labib Rahman Particle Health

Thank you for your participation

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