Empowering Individuals through Interoperable Medication Lists

Technical Work Stream Meeting

April 27, 2017

Agenda

5 Minutes	**Welcome and Opening Remarks**
5 Minutes	**Session Goals** - Work Stream activities plan - Provider Adoption - Patient Single Sign-on and OAuth2 Implementations
15 Minutes	**Provider Adoption Showcase – Hackensack Meridian**
30 Minutes	**Work Session – Led by CareEvolution** - OAuth2 Implementation Issues - Patient Single Sign-on Approaches
5 Minutes	**Wrap Up and Next Steps**

Med List – Goals Recap (For Technical Work Stream)

- **By June 30th, Med List participants should be able to demonstrate expanded connectivity and enhanced usability App features for consumers and patients, and allow individuals' the ability to share medication lists with providers and others.**

  » Additional providers deploying FHIR-enabled systems

  » Improved patient-facing workflow and app features

  » Provider-facing workflow for viewing shared medication lists

Technical Work Stream –Topics

	March 30	April 27	**May 25**	**June 22**
Work Stream activities	FHIR Standard Update	Patient Single Sign-on	App Registration and Pluggability	Sharing data with providers
Provider Spotlight		[presentation]	[presentation]	[presentation]
Work Steam discussion Topic	FHIR STU3 Changes (Led by FHIR Standard SMEs)	Patient Single Sign-on approaches (Led by App and EHR developers)	Streamlining App registration and Scope consistency (Led by EHR developers)	Discuss approaches (Led by App and EHR vendors)
Work Stream Discusses the Future State	Discusses plans for support for FHIR STU3	Discuss approaches to improve patient single sign-on	Discuss best practices and changes for streamlining App registration and scope consistency to ensure pluggability	Discuss best practices to support App integration with provider workflow

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Tracking Spreadsheet updates

- Technical Work Stream Confluence

  » https://oncprojectracking.healthit.gov/wiki/display/OEITIML/Technical+Workstream

Provider Adoption Showcase

Provider Showcase - Hackensack Meridian

- FHIR server details

  » Epic EHR. Build on top of Apigee API management layer.

- FHIR Client details

  » HackensackUMC Mobile Access app, COTA, Medisafe

- Questions

  » Describe the implementation experience and any challenges?

  » What is your guidance for other implementers that are interested in deployment FHIR servers?

  » What has been user experience (Provider and Patients)?

  » Describe future plans

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- Jeremy is a CHIME CHCIO and as the Director of Enterprise Architecture at Hackensack University Medical Center, Jeremy has direct responsibility for a wide range of healthcare information technology including mobile applications, and the development of a Common Service Layer using FHIR. Jeremy was invited to the White House for participation in the Precision Medicine Initiative.

- Hackensack Meridian Health remains on the bleeding edge of consumer mediated healthcare and is dedicated to working with The Office of the National Coordinator(ONC) Med. List Project as well as National Institute of health (NIH) on the Sync for Science S4S initiative.

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Hackensack Meridian – Team

- Modi Boutrs is the lead of Enterprise Solutions and development at Hackensack Meridian Health. He joined the hospital back in 2011.

  » He is a developer at heart with over 15 years experience in financial and healthcare IT. He has very solid experience in .net development, integration, research, software engineering, design and interoperability. He strives to provide solutions to tough challenges applying his knowledge, skills and innovations that he has acquired over the years.

  » He is also the Lead analyst responsible mobile applications, and development of Common Service Layer using FHIR. Modi was invited to the White House for participation in the Precision Medicine Initiative. Hackensack Meridian Health is dedicated and continues to work with Office of the National Coordinator(ONC) Med. List Project as well as National Institute of health (NIH) on the Sync for Science S4S initiative.
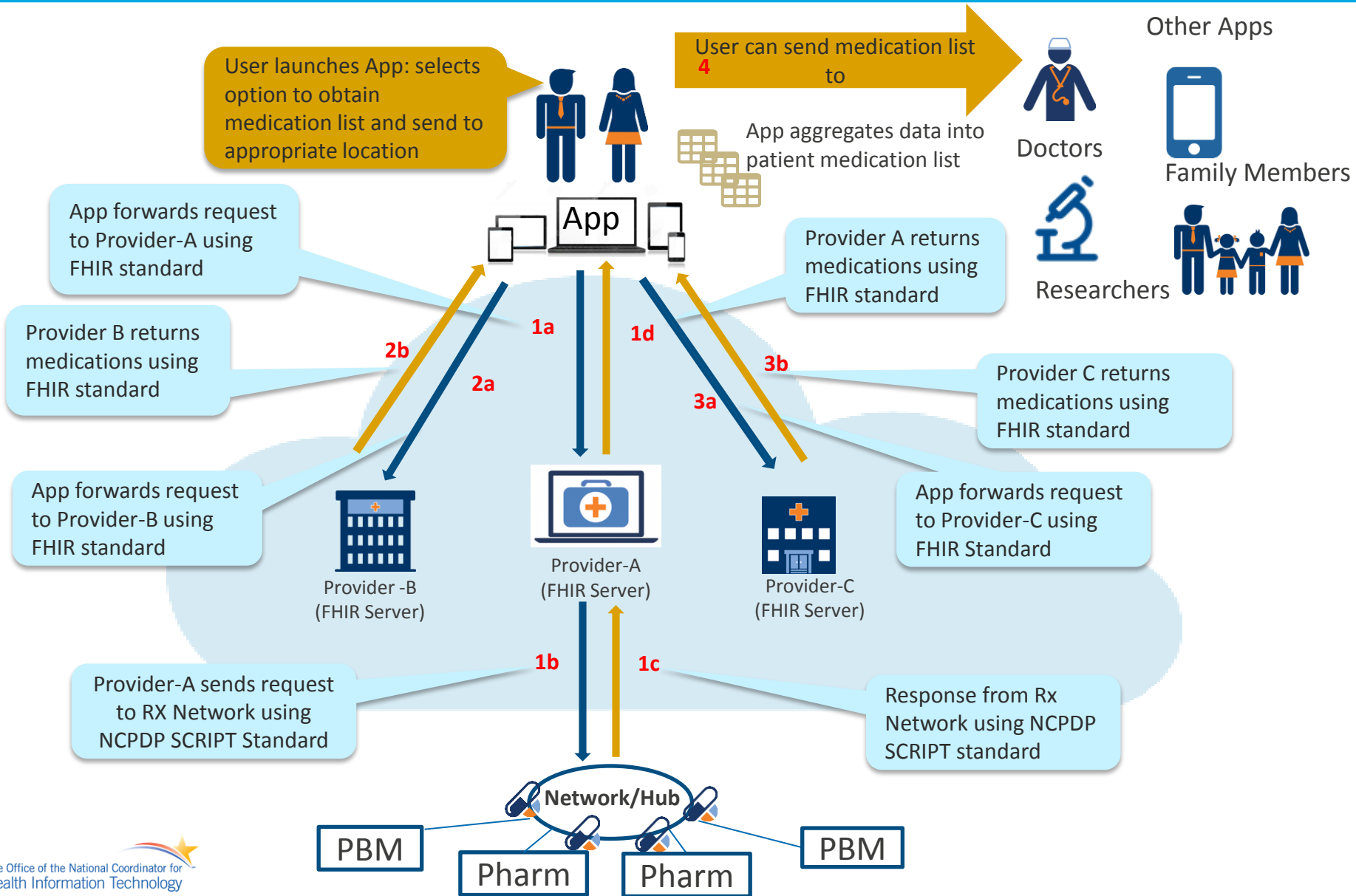
Work Session – OAuth2 Implementation Issues and Patient Single Sign-on

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Workflow Steps Data Flow – Patient Mediated

User launches App: selects option to obtain medication list and send to appropriate location

User can send medication list to

4

Other Apps

Doctors

Family Members

App aggregates data into patient medication list

Researchers

App forwards request to Provider-A using FHIR standard

Provider A returns medications using FHIR standard

1a

1d

Provider B returns medications using FHIR standard

2b

2a

3b

Provider C returns medications using FHIR standard

3a

App forwards request to Provider-B using FHIR standard

App forwards request to Provider-C using FHIR Standard

Provider -B (FHIR Server)

Provider-A (FHIR Server)

Provider-C (FHIR Server)

1b

1c

Provider-A sends request to RX Network using NCPDP SCRIPT Standard

Response from Rx Network using NCPDP SCRIPT standard

Network/Hub

PBM

Pharm

Pharm

PBM

Workflow Details – Summary of Technical Design

- Patient needs to identify end-points where information is present

- Apps use OAuth2 workflow profiled in SMART on FHIR Authorization Guide

  » http://docs.smarthealthit.org/authorization/

  » Standalone "Patient" Launch

- Questions

  » Describe the implementation experience and any challenges?

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Discussion Lead - CareEvolution

- Vik Kheterpal, MD, Principal, CareEvolution, Inc.   Focuses on product management and policy/governance issues related to exchange, aggregation, and usability of health information.

- Michele (pronounced Mi-kay-lay) Mottini, Sr. Architect, CareEvolution, Inc. FHIR Evangelist who leads real world implementation and connectivity initiatives using FHIR and RESTful APIs for CareEvolution

- Other resources who may participate in discussion

  » Steve Patches, Sr. Architect, CareEvolution, Inc. Security Evangelist who focuses on balancing security objectives with ease-of-access and reducing usability friction costs in initiatives such as Single-sign-on and standards based authentication and authorization

  » Eric DeLabar, Sr. Architect, CareEvolution, Inc. Focuses on mobile app development and real-world SSO/Authentication issues.

  » Chris Nowak, Sr. Architect, CareEvolution, Inc. Focuses on mobile app middle tier and server/cloud based issues and overall ecosystem linkages.

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Summary and Next Steps

2017 Sprint Cycle
- Next Usability Work Stream Call on Thursday, May 11th   3-4PM ET
- Next Technical Work Stream Call on Thursday, May 25th   3-4PM ET

Pre-work for Next Call
- Will be emailed and posted on confluence site
- Providers interested in highlighting their work, please contact us!

Refer additional participants by emailing anastasia.perchem@hhs.gov

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