



#### Bridging the Payer - Provider Data Divide: The P2 FHIR Taskforce & HL7 DaVinci Project

Washington, D.C. November 29<sup>th</sup>, 2018





The Office of the National Coordinator for Health Information Technology

## **ONC Payer + Provider (P2) FHIR Task Force Overview**

ONC Annual Meeting Washington, D.C. November 29<sup>th</sup>, 2018



"To ensure the success of the industry's shift to Value Based Care, there is a need to establish a rapid multi-stakeholder process to identify, exercise and implement initial use cases between payers and provider organizations."

"The objective is **to minimize** the development and deployment of unique solutions with focus on reference architectures that will promote industry wide standards and adoption."

- P2 and Da Vinci Project Founding Members



#### **Problem:**

There are ecosystem and infrastructure barriers that prevent the <u>wide-scale</u> adoption and deployment of FHIR, for the sharing of clinical data between payers and providers.

#### **Purpose:**

Through a collaborative effort, the taskforce aims to address such ecosystem barriers and accelerate adoption of FHIR for production exchange of clinical information between providers and payers.



#### **P2 FHIR Taskforce – Goals and Objectives**

- Identify and prioritize a list of broad-based architectural, technical or process barriers that are likely to curtail wide scale FHIR deployment for clinical data exchange.
- Develop practical, consensus based, solutions to these barriers that could accelerate adoption.
- Create or identify an existing knowledge sharing process to distribute, update and publish consensus best practice.
- Identify a list of barriers that need regulatory solutions and document same for consideration to regulatory process.
- Conduct demonstration projects between EHR/HIE and payer end points that show value, will scale, and will not require fundamental new standards development.
- Design of a national architecture to enable FHIR based clinical clearinghouse solutions.



#### Key Ecosystem Issues and Deliverables



The Office of the National Coordinator for Health Information Technology

#### P2 – A Tiger Team Approach

- **1. Ecosystem Use Cases** Create use cases that will assist the rest of the tiger teams in directing their efforts and driving their solutions
- 2. Identity Identify identity-proofing and patient-matching solutions across multiple types of users
- **3. Security** Identify scalable solutions for security authorization and authentication processes
- 4. Directory, Versions, and Scale Focus on resource directory solutions and ensuring a process to handle versioning and the anticipated scale of resources
- 5. Exchange Process (metadata) Focus on common metadata and process conventions
- 6. Testing and Certification Focus on specification for testing and certification of the requirements defined for identity, security, Endpoint discovery, scaling and exchange process
- 7. Pilots Identify the pilot models, technology, and participants needed to demonstrate the efficacy of the documentation and approaches created by other tiger teams



#### P2 Use Case Tiger Team – Initial Brainstorm and Prioritization Results



Coverage Requirements Discovery (CRD) Alerting -event based (ADT) (needed for VB) Prior Authorization 30 day Medication reconciliation Lab Results to support HEDIS reporting Open Gaps (payer sends to provider) ER admit alerts from payer to provider Medical Record per encounter or for a time period Clinical Summary (payer to provider and others) Re-admits, payer alerts provider Data for RAPs (Risk Adjustment Programs) reporting Shared Care Plan (Payer to provider and others?) Explanation of Benefit (EOB) FHIR resource Social Determinants of Health (SDOH) Problem lists Medication adherence notification (provider to payer) **Provider Searching** Prescription filled notification (payer to provider) Inform PCPs of other Caregivers (Behavioral Health) Complete Claims History (provider request - FHIR Bulk Data Xfer) Provider Directory Information



#### P2 Technical Learning Community (TLC)

- » Key component to a broader communications / engagement strategy
- » To include the following;
  - Bi-monthly "newsletter" sent to subscribers of the P2 FHIR TF public list serve
  - Quarterly public webinars for P2 FHIR TF updates (with Q&A), and community engagement
  - Notifications of opportunities to attend/participate in P2 / Da Vinci related events (i.e. connectathons, hackathons, meetups, workshops, etc.)









# **Get Involved!**

For latest information on the P2 FHIR Taskforce,

Please visit the official P2 FHIR Taskforce Project Page

Have any further questions/suggestions?

Please contact Stephen Konya (Stephen.Konya@hhs.gov)







Da Vinci Project

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November 29, 2018



#### **ANSI Antitrust Policy**

ANSI neither develops standards nor conducts certification programs but instead accredits standards developers and certification bodies under programs requiring adherence to principles of openness, voluntariness, due process and non-discrimination. ANSI, therefore, brings significant, procompetitive benefits to the standards and conformity assessment community.

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Approved by the ANSI Board of Directors May 22, 2014

# Objective



To ensure the success of the industry's **shift to Value Based Care** there is a need to establish a *rapid multi-stakeholder* process to identify, exercise and implement initial use cases between payers and provider organizations.

The objective is to minimize the development and deployment of unique solutions with focus on reference architectures that will promote industry wide standards and adoption. Components for success include (and where needed, create extensions to or craft revisions for) common:

- 1. Standards (HL7 FHIR<sup>®</sup>),
- 2. Implementation guides, and
- 3. Reference implementations and pilot projects to guide the development and deployment of interoperable solutions on a national scale.

## **VBC** Programs Drive Focus to Patient Outcomes



Enable provider to see right data at right time for specific patient coverage, benefits and care coordination

Historically, payment and coverage data completely separate from care

## Empower End Users to Shift to Value



As a private industry project under HL7 International, Da Vinci will unleash critical data between payers and providers required for VBC workflows leveraging HL7<sup>®</sup> FHIR<sup>®</sup>



## **Founding Members**



Work Underway to Identify Initial Sites by Use Case



#### **Project Deliverables**

Define requirements (technical, business and testing)

Create Implementation Guide

- Create and test Reference Implementation (prove the guide works)
- Pilot the solution

Deploy the solution

In HL7 ballot reconciliation as draft standard

Discovery and requirements underway

Proposed 2019 Use Cases

#### Use Case Alignment

Quality Measure Collection	Clinical Data Exchange	Pre Order Burden Reduction	
Data Exchange for Quality Measures	eHealth Record Exchange: HEDIS/Stars & Clinician Exchange	Coverage Requirements Discovery	<ul> <li>Observations</li> <li>Relationships emerging around use cases</li> </ul>
Gaps in Care	Alerts: Notification (ADT), Transitions in Care, ER admit/discharge	Documentation Templates and Coverage Rules	<ul> <li>Early use cases create building blocks, incremental improvements</li> <li>Currently three categories with expectations others will emerge</li> </ul>
Risk Based Contract Member Identification	Laboratory Results	Authorization Support	as we advance and mature existing and add new use cases

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# 2018-19 Membership



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## Da Vinci Members

**Premier Members** 





An association of independent Blue Cross and Blue Shield companies







**Associates** 







## Da Vinci Members



#### Active Use Cases



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#### 2018 Initial Delivered Use Cases



## 2018 In Flight Use Cases

	Stage	Q42018 Priorities	2019 Min Investment
Documentation Templates and Coverage Rules	Definition	<ul> <li>Finalize scope</li> <li>Submit Project Scope Statement</li> <li>Identify Implementers</li> </ul>	<ul> <li>Ballot v1 IG</li> <li>Connectathons</li> <li>Implementations</li> <li>March 2019 CMS Testing</li> </ul>
eHealth Record Exchange: HEDIS/Stars & Clinician Exchange	Discovery	<ul> <li>Identify scenarios and architectural approach</li> <li>Get IG work underway</li> <li>Identify Implementers</li> </ul>	<ul> <li>Ballot v1 for 3 current IGs</li> <li>Connectathons</li> <li>Implementations</li> </ul>







### Da Vinci 2018 Use Cases – Year 2



# **Project Construct**



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#### Sample Project Structure & Timeline



Work with appropriate HL7 workgroup for IG sponsorship and input

## **Demonstration Projects Recommendation**



#### **Build Your Implementation Organization**

#### **HL7** Balloted Implementation Guides



# Follow Progress, Test, Implement

Find

- Background collateral
- Implementation Guide
  - Balloted Sept '18, reconciliation underway
- Reference Implementation
  - HL7 Connectathon participants
  - Publicly available

- HL7 Da Vinci Wiki & Listserv signup http://www.hl7.org/about/davinci/index.cfm
- HL7 Confluence Site -<u>https://confluence.hl7.org/display/DVP/</u>
- Data Exchange For Quality Measures (DEQM) Implementation Guide STU1 Ballot 1
  - <u>http://hl7.org/fhir/us/davinci-</u> <u>deqm/2018Sep/STU3/index.html</u>
- Coverage Requirements Discovery (CRD) Implementation Guide STU1 Ballot 1
  - <u>http://hl7.org/fhir/us/davinci-</u> <u>crd/2018Sep/index.html</u>
- Reference Implementation Code Repository -<u>https://github.com/HL7-DaVinci</u>















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## Relationship Between Da Vinci & P2 FHIR Task Force

Using FHIR to Solve Payer-Provider and Provider-Provider Interoperability Problems



- Start with a VBC use case (e.g. 30-day medication reconciliation)
- Define the requirements (business, technical)
- Create implementation guide and reference implementation
- Pilot the solution

- Identity management
- Security and authentication
- API discovery

- Scaling solutions
- Content identification and Routing
- Testing and certification



Using FHIR to Solve Payer-Provider and Provider-Provider Interoperability Problems



#### **Use Case Details**



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# **Use Case/Architecture Model**



#### Patient Information Request – Provider to Payer/Plan

<b>Clinical Actor</b>		<b>Endpoint Capability Actor</b>		Payer Actor	
	Provider system nee	Endpoint address request	В		
	D E	Endpoint and version response Provider request to payer	Core Capability (CC1) Endpoint Discovery Core Capability (CC2) Authenticate/Authorize	Core Capability (CC2) Authenticate/Authorize Core Capability (CC3) Payer Endpoint Access	
	G.	Payer response		F	

# **30 Day Medication Reconciliation**



- Need for provider to attest that Med Rec has been completed post-discharge
- Increasingly required for HEDIS and commercial at risk contracts
- Focus is to compare pre/post medication lists to avoid errors
- Today done through claims processing or manual review of lists



Implementation Guide Shifted to Framework to Support Wider Set of Data for Quality

# Quality Data Exchange Implementation Guide



- Enables the exchange of raw quality measure data between quality measurement Teams 2. Collect and Care teams that provide patient care
- Timely exchange of key data is critical to evaluate and capture quality
   3. Subscribe





## **Coverage Requirements Discovery**

- Providers need to easily discover which payer covered services or devices have
  - Specific documentation requirements,
  - Rules for determining need for specific treatments/services
  - Requirement for Prior Authorization (PA) or other approvals
  - Specific guidance.
- With a FHIR based API, providers can discover in real-time specific payer requirements that may affect the ability to have certain services or devices covered by the responsible payer.
- Response may be
  - The answer to the discovery request
  - A list of services, templates, documents, rules
  - URL to retrieve specific items (e.g. template)



#### **Coverage Requirements Discovery Implementation Guide**

 Based on a specific clinical workflow event: scheduling, start of encounter, planning treatment, ordering, discharge

Provider's send FHIR based request, with appropriate clinical context to the responsible payer

- 2) Payer may request additional information from the provider EHR using existing FHIR APIs
- 3) Payer responds to the EHR with any specific requirements that may impact the clinical decisions or coverage

Provider utilizes this information to make treatment decisions while considering specific payer coverage requirements.



Optional: request additional information

Provider requests coverage requirements from payer

Payer responds to the request



## **Documentation Templates and Payer Rules**

- Providers need to easily incorporate payer requirements into their clinical workflow
  - Specific documentation requirements,
  - Rules for determining need for specific treatments/services
  - Requirement for Prior Authorization (PA) or other approvals
  - Specific guidance.
- Use a FHIR based standard for representing payer "rules" to communicate, in real-time, payer medical necessity and best clinical practice requirements that may affect the ability to have certain services or devices covered by the responsible payer.
- The template/rules may (examples, not complete list)
  - Specify provider documentation requirements for coverage, medical necessity
  - Provide guidance / documentation requirements regarding social determinates that are antecedents for specific care
  - Collect information for some purpose (e.g. authorizations)
  - Indicate clinical requirements including appropriate use
  - Collect specific documentation for Quality Measures
  - Respond with specific information as requested/documented in the template/rules

### eHealth Record Exchange

