The Payer/Provider Perspective on Interoperability – Da Vinci

Lenel James, Business Lead, HIE & Innovation, Blue Cross Blue Shield Association
Kirk Anderson, VP, and CTO, Cambia Health Solutions
Mark Gingrich, CIO, Surescripts
Viet Nguyen, MD, Technical Director, Da Vinci
AGENDA:

• Why We Are Here
• What Is The Da Vinci Project
• Introduce the Panel
• Presentations and Q&A
WHY ARE WE HERE: A Pathway to Better Care in America

Triple Aim
1. Better health for the population
2. Better care for individuals
3. Lower cost through improvement

Pathway to Better Health
1. Change the way doctors and hospitals are paid
2. Provide tools and data to doctors and hospitals
3. Help people be active partners in own health
4. Promote savings in the healthcare system

Dynamics of HIT
1. EHR
2. Interoperability
3. Analytics
4. Engage & Decide
5. Decision Support
6. Automation
7. Connectivity
8. Data Mining

https://www.bcbs.com/articles/four-pathways-better-care
The Da Vinci Project  **The Opportunity to Enable**

- **Enable providers**
  - Enable providers to make the best clinical, quality or administrative decision at point of service *in context* of their workflow.

- **Enable payers**
  - Enable *one method for interaction* between any payer and any provider when dealing with an interoperability use case.
  - Enable provider and payers to do it right the first time -- *eliminate rework* where possible.

- **Enable HIT vendors**
  - Enable HIT vendors to *implement one solution* for each use case --- reduces cost, complexity, deployment and support.

- **Enable Cooperation**
  - Enable the *first significant initiative* with payers and providers working together along with their HIT vendors to solve interoperability problems.

---

**Payers, providers and HIT vendors solving interoperability problems to improve patient care**
Scope of Work

- **Targets** “Payer – Provider” and “Provider – Provider” exchanges
- **Leverage existing HL7 FHIR resources** and identify gaps for concurrent standards development
- **Enable improved patient care outcomes**
- **Empower better clinical decision making** by integrating historical “administrative” decisions into the provider workflow
- **Open Source**- Da Vinci specifications and artifacts will be made available to the community and where relevant brought into the standards process at HL7 for balloting.

**INITIAL FOCUS AREAS:**

- Agree upon short and long term use cases to support VBC workflows
- **Business case priorities** established by Steering Committee
- Ideal phase one includes one simple and one complex use case to demonstrate value of using FHIR to establish ecosystem standards vs. one-off solutions
- **NOTE:** High membership interest and related resources could mean **TWO simpler use cases** and initiation of a **complex** use case.

Goal is to promote and accelerate HL7 FHIR for data exchange required for Value Based Care Delivery (VBC)
Da Vinci: 2018 Use Case Inventory and Project Deliverables

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

* Initial use cases under review
Da Vinci and ONC (P2) FHIR Task Force: Payer, Provider and HIT vendors

- Payers / Providers
- HIT Solutions
- Da Vinci Solutions to VBC Use Cases
- Providers
- HIT Solutions
- P2 FHIR Task Force Scale solutions nationally

Example:
- How can a payer request and receive a response from a provider regarding 30-day medication reconciliation (content and semantics the of messages)?

Example:
- How can a payer scale this to 35,000 provider serving 3 million members (in a multi-state region)?
The Payer/Provider Perspective on Interoperability – Da Vinci
Lenel James, Business Lead, HIE & Innovation, Blue Cross Blue Shield Association
Kirk Anderson, VP, and CTO, Cambia Health Solutions
Mark Gingrich, CIO, Surescripts
Shafiq Rab, Senior VP and CIO, Rush Medical Center
The Cambia Perspective on Interoperability – Da Vinci

Kirk Anderson, Vice President and Chief Technology Officer
Health Plans and Shared Solutions
Cambia Health Solutions
The Cambia Cause:

“To serve as a catalyst to transform health care, creating a person-focused and economically sustainable health care system.”
FHIR Encounter API

- Admit-Discharge-Transfer (ADT) data is ingested from facilities/clearinghouses
- Data is transformed from HL7 v2 to FHIR and written into Cambia Encounter Microservices hosted in the Cloud
- FHIR APIs expose ADT data to Care Management partners
- ADT data published for consumption by notification subscribers
**FHIR Claims API**

- Claim, Member, and Practitioner data from Facets Claim Management System is collected via Change Data Capture.
- Facets data is loaded into Cambia Cloud Data Lake.
- Data is transformed to FHIR and written into Claims, Member, and Practitioner Microservices.
- FHIR APIs exposed for Claims inquiry.
Why Project Da Vinci and Why Now?
Health Care Consumers Demand Better
Even Congress Loves APIs

• 21st Century Cures Act
  – Clear endorsement for interoperability
  – Requires published APIs to facilitate access, exchange, and use of health data
  – Establishes fines for “information blocking”
Engineers Want to Fix Healthcare
The Surescripts Perspective on Interoperability: Da Vinci

Mark Gingrich, Chief Information Officer, Surescripts
Better Actionable Patient Intelligence

**Purpose:** to serve the nation with the single most trusted and capable health information network built to increase patient safety, lower costs and ensure quality care.

**VIRTUALLY ALL:**
- ELECTRONIC HEALTH RECORDS (EHRs), PHARMACY BENEFIT MANAGERS (PBMs), PHARMACIES AND CLINICIANS
- PLUS:
  - HEALTH PLANS, LONG-TERM CARE AND SPECIALTY PHARMACY ORGANIZATIONS

**4.8 MILLION**
E-PRESCRIPTIONS DAILY

**12.8 BILLION**
TRANSACTIONS ANNUALLY
THE SURESCRIPTS NETWORK ALLIANCE™

INTELLIGENCE ENABLERS
- Provider & pharmacy directories
- Master patient index
- Clinical transactions
- Workflow, administrative & analytic tools

GOVERNANCE
- Alliance Framework
- Adoption tiers
- Development partnerships

TRUST, QUALITY & RELIABILITY
- Surescripts Sentinel™ Security
- High-availability operations

surescripts
WHERE ARE WE USING FHIR?

The Da Vinci Project

- eHealth Record Exchange: HEDIS/Stars & Clinician Exchange
- Documentation Templates and Coverage Rules *
- ADT Notification: Transitions in Care, ER admit/discharge
- Coverage Requirements Discovery *
- Laboratory Results
- Quality Measure Reporting
- 30 Day Medication Reconciliation
- Authorization Support
- Risk Based Contract Member Identification
A Clinician Perspective on Interoperability: The Da Vinci Project

Viet Nguyen, MD
Technical Director, Da Vinci
CMO, Healthcare Services Platform Consortium
API Based Integration

**FHIR Resources and Operations**

- A single standard; yet extensible
- API model with standard REST protocols (put/get) for specific discrete data points
- **Standard web programming proficiency used universally across industries**
- Highly extensible; allows for rapid development and reusable code regardless of workflow (even if you customize the original standard) [conformance statement]
- **Few moving parts with known designated endpoints**
- Result in highly-interoperable systems
- **Out of the box security compatibility** (i.e. OAuth)
Advancing EHRs in the FHIR Paradigm

SMART on FHIR
Advancing EHRs in the FHIR Paradigm

*CDS Hooks*
Multiple Levels of Care & Information

- Payers
- Unaffiliated Participants Different EHR
- Unaffiliated Participants Same EHR
- In-network Partners Different EHR
- In-network Partners Same EHR
- Internal Systems
API Based Integration

**SMART on FHIR Standard Interoperability**

- A single standard; yet extensible
- API model with standard REST protocols (put/get) for specific discrete data points
- **Standard web programming proficiency used universally across industries** (any developer will do)
- Highly extensible; allows for rapid development and reusable code regardless of workflow (even if you customize the original standard) [conformance statement]
- Few moving parts with known designated endpoints
- Result in highly-interoperable systems
- **Out of the box security compatibility** (i.e. oAuth)
API First Strategy

Why not FHIR for all Data Exchange

- Hundreds of heavy legacy HL7 interfaces
- When new integrations arise, think API first; “Do you support FHIR?”
- Identified need for BULK exchange of patients e.g. pop health systems, registries
- Beginning of custom architecture through our Common Services Layer
- HL7 begins development of flatFHIR standard
- DaVinci becomes perfect opportunity to push the envelope
The Da Vinci Project: HIMSS18 Q&A

Defining Value Based Care Standards Between Payers and Providers

March 7, 2018
**Define solutions for Value Based Care (VBC) use cases**

- 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

**Establish FHIR ecosystems standards and best practice to allow solutions to scale nationally**

- 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**

**Target VBC Exchange**

- **Convener**: HL7
- **Participants**: Da Vinci

**Scope**

- Define the vehicles

**Scale the Solution**

- **Convener**: ONC
- **Participants**: P2 FHIR Task Force

**Scope**

- Define the interstate highway system
Proposed Da Vinci Interaction with FHIR Standards Process

(When Da Vinci Project anticipates creating artifacts for HL7 balloting and publication)

1. PSS defining project, sponsors and supporting
2. Ongoing updates and coordination for IG/FHIR artifact development

Da Vinci Initiative (Use Case Projects)

1. Decision by sponsoring WG on level of participation
2. Alignment of Da Vinci effort into WG goals

HL7 International (Workgroups)
Project Team Roles (per use case)

- Project Lead
- Business Process SME
- Clinical Process SME
- Development Lead
- FHIR Profile/IG Author
- Testing Lead
- Use Case Organizational Participant Team
  - Organization POC
  - Organization Development Team

- Shared across projects
  - Project Manager
  - Technical Director
- Individuals may be partial FTEs
- Individuals may serve more than one role depending on experience and expertise
- Individuals may support more than one project
- Roles may be filled by in-kind contributions from members or by contractors if necessary