DA VINCI PROJECT UPDATE

HIMSS19
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• Approved by the ANSI Board of Directors May 22, 2014
To ensure the success of the industry’s shift to Value Based Care

**Pre-Collaboration / Controlled Chaos:**
Develop *rapid multi-stakeholder* process to identify, exercise and implement initial use cases.

**Collaboration:**
Minimize the development and deployment of *unique solutions.*
*Promote* industry wide *standards* and adoption.

**Success Measures:**
Use of FHIR®, implementation guides and pilot projects.
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® FHIR®

Source: © 2018 Health Catalyst
In Less Than Two Years, Da Vinci Efforts Will Drive Standards for the Exchange of Information Critical to Patient Care

- Prior Auth and Documentation Requirements Payer Clinical Data
- Gaps in Care Attribution (Patient Panel)
- Medical Records for Value-Based Care
- Quality Measure Reporting Encounter Notifications
2019 MEMBERSHIP
Founding Members

Members have begun to implementing use cases.
Da Vinci Members

**Premier Members**

- **Anthem**
- **BlueCross BlueShield Association**
- **Blue Cross of Idaho**
- **Cambia Health Solutions**
- **Blue Cross Blue Shield Blue Care Network of Michigan**
- **Optum**
- **UnitedHealthcare**

**Associates**

- **Allscripts**
- **Cerner**
- **Epic**
- **GuideWell of Tennessee**
- **Humana**
- **Virence**

For current membership: http://www.hl7.org/about/davinci/members.cfm
Da Vinci Members

Sponsors

HCSC
HealthCare Service Corporation

HLZ
HealthLinx

Cigna

InterSystems
Health | Business | Government

RUSH

surescripts

Members

BlueCross BlueShield of Alabama

casenet

cognosante

edifecs

HealthLX

Independence

juxly

zeomega
ACTIVE USE CASES
Use Case Alignment

**Project Outputs**
- Define requirements (technical, business and testing)
- Create Implementation Guide
- Create and test Reference Implementation (prove the guide works)
- Pilot the solution
- Deploy the solution

**Use Case Status**
- In HL7 ballot reconciliation as draft standard
- Under active development
- Planned 2019 Use Cases
- Future Use Case
Progress Toward End Goal

Build Your Implementation Success Story

TRUE INTEROPERABILITY
Use Case Details
Sample Project Timeline

IG Development
- Assemble Team
- Requirements
- RI Tech Approach
- Specify profiles, ...
- IG Framework
- Create Draft IG
- Revise and Finalize IG
- FHIR Gap Analysis

RI Development
- Build Initial RI
- Test RI
- Update Final RI
- Build Data Set
- Build Test Set
- Work with appropriate HL7 workgroup for IG sponsorship and input

Week 0 2 4 6 8 10 12 14 16

Represents 4 weeks
2 - 4 sprints
• 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
Use case creates a common framework for quality data exchange

1. **Submit**
   - Enables the exchange of raw quality measure data between quality measurement Teams and Care teams that provide patient care
   - Timely exchange of key data is critical to evaluate and capture quality
   - Future work will incorporate additional use cases

2. **Collect**

3. **Subscribe**

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**Quality Data Exchange Implementation Guide**
Pilot Implementation REST Architecture Model

Provider EHR Implementation Scope

- EHR Database
- EHR Backend Services
- FHIR Translation Services
- Implementations conforming to the DaVinci FHIR Profiles following the Implementation Guides

Da Vinci’s Deliverable Scope

- EHR
- Request Resource
- FHIR Endpoint & APIs
- Industry standard DaVinci Use Case FHIR Profiles with respective Implementation Guides
- Response Resource

Payer Implementation Scope

- Payer Database
- Payer Backend Services
- FHIR Translation Services
- Implementations conforming to the DaVinci FHIR Profiles following the Implementation Guides
• 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

1. 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

1. Payer may request additional information from the provider EHR using existing FHIR APIs

2. 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.
Pilot Implementation CDS Hooks/REST Architecture Model

**Provider EHR Implementation Scope**
- EHR Backend Services
- EHR Database

**Da Vinci’s Deliverable Scope**
- CDS HOOKS
- Endpoint & APIs
- Request Resource
- Response Resource

**Payer Implementation Scope**
- Payer Backend Services
- Payer Database

Industry standard CDS HOOKS implementing Use Case FHIR Profiles with respective Implementation Guides

Implementations conforming to the DaVinci FHIR Profiles following the Implementation Guides

Disclaimer
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<thead>
<tr>
<th>Stage</th>
<th>Q1 2019 Activities</th>
<th>2019 Min Investment</th>
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</table>
| Data Exchange for Quality Measures | • Publish  
   • Identify Implementers  
   • Test  
   • Finalize next measure sets | • v2: sync with FHIR STU4  
   • Incorporate feedback  
   • Further define pattern |
| Coverage Requirements Discovery | • Publish  
   • Identify Implementers  
   • CMS drive Pilot Test | • v2: sync with FHIR STU4  
   • Incorporate feedback  
   • Add pricing by location functionality |
## 2019 In Flight Use Cases

<table>
<thead>
<tr>
<th>Stage</th>
<th>Q12018 Activities</th>
<th>2019 Min Investment</th>
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</table>
| Definition | • Finalize scope  
• Gain support for Project Scope Statement  
• Identify Implementers | • Ballot initial IG  
• Connectathons  
• Implementations  
• CMS Testing |
| Discovery | • Drive architectural approach  
• Get IG work underway  
• Identify Implementers | • Ballot initial IG for payer to provider, provider to payer & eHRx framework  
• Connectathons  
• Implementations |
FIND
• Background collateral
• Implementation Guide
  – Balloted Sept ‘18, reconciliation underway
• Reference Implementation
  – HL7 Connectathon participants
  – Publicly available

RESOURCES
• HL7 Da Vinci Wiki & Listserv signup - http://www.hl7.org/about/davinci/index.cfm
• HL7 Confluence Site - https://confluence.hl7.org/display/DVP/
• Data Exchange For Quality Measures (DEQM) Implementation Guide STU1 Ballot 1
• Coverage Requirements Discovery (CRD) Implementation Guide STU1 Ballot 1
• Reference Implementation Code Repository - https://github.com/HL7-DaVinci
Follow Progress, Develop, Test, Implement

Da Vinci Resources
• Listserv signups
• Background collateral
• Draft Implementation Guides
• Reference Implementation links

HL7 Public Confluence Site -
https://confluence.hl7.org/display/DVP/

General Comments or Recommendations on CMS Document Requirement Lookup Service?
• Monitor DRLS progress or for information on upcoming SODF calls:
go.cms.gov/MedicareRequirementsLookup
• Send feedback and suggestions on the Documentation Requirement Lookup Service - MedicareDRLS@cms.hhs.gov
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Da Vinci Operating Committee Member

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Architect, Independence Blue Cross, Da Vinci Operating Committee
Use Case/Architectural Model

Use Case Sources
- Da Vinci UC Base
- Existing Workflow (ie, PA)
- Known Barrier to Scalability

Use Case Team
- P2 Use Case Refinement
- P2 Use Case Document via Template
- Cross use case core / common capabilities identification / recognition

Architecture Team
- CORE CAPABILITIES EXAMPLES
  - Endpoint Discovery
  - Identity Management
  - Authentication/Authorization

Tiger Teams
- Identity
- Directory/Versioning/Scale
- Testing/Certification
- Exchange
- Security
- Pilots
- Technical Learning Center

CORE CAPABILITIES EXAMPLES
- Use cases, core / common capabilities and team mapping, architecture blueprints
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