Blazing the Technical Pathway to Value Based Care: The Da Vinci Project and FAST Initiative

January 27, 2020
Today’s Session & Goals

The HL7 Da Vinci Project is paving the way for increased data sharing between payers and providers by leveraging the FHIR Standard, while the ONC’s FHIR at Scale Taskforce (FAST) Initiative is tackling the infrastructure challenges necessary to enable FHIR solutions, like those being developed by Da Vinci, to be deployed at scale.

Complementary, these two collaborative industry efforts are improving accessibility and interoperability of key data that will be vital in the industry’s transition to value-based care (VBC).

SESSION GOALS

• To improve industry awareness
• Highlight the differences and similarities between the two efforts
• Understand how functional industry use cases can inform FAST infrastructural approaches to FHIR scalability challenges
Today’s Presenters

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ONC
Senior Innovation Strategist & FAST Lead

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Da Vinci Technical Director
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FAST Initiative Chief Architect & Da Vinci Operating Member
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Bob Dieterle
FAST Coordinating Committee Member & Da Vinci PMO/Sr. Advisor Enablecare
HL7 Da Vinci Project
Project Challenge

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.
### Membership by Primary Industry Role

#### Providers
- AMA
- Cedars-Sinai
- MultiCare Connected Care
- OHSU
- Providence St. Joseph Health
- Rush
- Sutter Health
- Texas Health Resources
- UNC Health Care
- Weill Cornell Medicine

#### Payers
- Anthem
- BlueCross BlueShield of Alabama
- BlueCross BlueShield Association
- Blue Cross of Idaho
- Blue Cross Blue Shield of Michigan
- Blue Cross Blue Shield Network of Tennessee
- Cambia
- CMS
- Cigna
- CVS Health
- Centene Corporation
- GuideWell
- HCSC Health Care Service Corporation
- Humana
- Independence
- UnitedHealthcare

#### Vendors
- Allscripts
- athenahealth
- casenet
- Cerner
- Cognosante
- edifecs
- Epic
- healow Insights
- HealthLX
- Infor
- InterSystems
- juxly
- OPTUM
- Surescripts
- ZeOmega

#### Partners
- HL7 International
- HIMSS
- NCQA

#### Deployment
- Availity
- MiHIN

For current membership: [http://www.hl7.org/about/davinci/members.cfm](http://www.hl7.org/about/davinci/members.cfm)
Use Case Focus Areas
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ONC FHIR at Scale Taskforce (FAST)
What is FAST?

The FHIR at Scale Taskforce (FAST), convened by the Office of the National Coordinator for Health IT (ONC), brings together a highly representative group of motivated healthcare industry stakeholders and health information technology experts.

The group is set to identify HL7® Fast Healthcare Interoperability Resources (FHIR®) scalability gaps and possible solutions, analysis that will address current barriers and will accelerate FHIR adoption at scale.
Lack of Consistent Infrastructure Impacts Flow
Well-Planned Infrastructure Creates Efficiency
Known Technical Barriers

1. Directory Services
2. Identity
3. Security
4. Testing, Conformance, & Certification
5. Versioning
6. Scaling
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For more information on the FAST Initiative, visit the FAST Project Page

Have any further questions/suggestions?

Please contact Stephen Konya at Stephen.Konya@hhs.gov
& Diana Ciricean at Diana.Ciricean@hhs.gov
Discussion

*FAST* Infrastructural Approaches to Known Scalability Challenges in the Context of Two Da Vinci Functional Use Cases: Payer Data Exchange (PDex) and Payer Coverage Decision Exchange (PCDE)
Freeing Payer Data to Support Patient Care

1. Endpoint Discovery
2. Security (Authentication/Authorization)
3. Patient Matching
4. Testing/Certification

Scaling applies to all transactions
Example FHIR Transaction Journey:
Da Vinci Payer Coverage Decision Exchange (PCDE)

Patient enrolls in new health plan

New payer needs information from old payer

Old payer receives request

REQUESTING SYSTEM

1

2

DIRECTORY

3

4

5a

5b

6

RECEIVING SYSTEM

DA VINCI PCDE CHALLENGE: Where can I find the endpoint for the patient’s old payer?

FAST SOLUTION: Directory services approach for endpoint discovery

For more information view FAST 101
Example FHIR Transaction Journey: Da Vinci Payer Coverage Decision Exchange (PCDE)

Patient enrolls in new health plan

New payer needs information from old payer

Old payer receives request

REQUESTING SYSTEM

1. Cloud
2. Local directory

3. Request
4. Authentication

5a. Payer information
5b. Request validation
6. Response

RECEIVING SYSTEM

DIRECTORY

EXCHANGE

IDENTITY

VERSIONS

DIRECTORY

CONFORMANCE & CERTIFICATION

SECURITY

PILOTS

New payer views patient information

DA VINCI PCDE CHALLENGE:
How can the new payer and old payer uniquely identify the patient/member?

FAST SOLUTION: Identity matching approach

For more information view FAST 101
Example FHIR Transaction Journey: Da Vinci Payer Coverage Decision Exchange (PCDE)

- Patient enrolls in new health plan
- New payer needs information from old payer
- Old payer receives request

REQUESTING SYSTEM

1. Cloud upload
2. Directory access

DIRECTORY

3. Exchange initiation
4. Identity verification
5a. Version check
5b. Data transfer
6. Document review

RECEIVING SYSTEM

For more information view FAST 101
Example FHIR Transaction Journey: Da Vinci Payer Data Exchange (PDex)

Patient accesses 3rd party application

Patient needs information from payer

Payer receives request

REQUESTING SYSTEM

1 2

3 4 5a 5b 6

RECEIVING SYSTEM

DIRECTORY

PROFILE

DA VINCI PDEX CHALLENGE: Where can I find the endpoint for the patient’s health plan?

FAST SOLUTION: Directory services approach for endpoint discovery

For more information view FAST 101
Example FHIR Transaction Journey: Da Vinci Payer Data Exchange (PDex)

DA VINCI PDEX CHALLENGE: How can the patient-facing application and the payer uniquely identify the patient/member?

FAST SOLUTION: Identity matching approach

For more information view FAST 101
Example FHIR Transaction Journey: Da Vinci Payer Data Exchange (PDex)

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Contact ONC

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