

FAST Update Da Vinci Project Update CMS NPRM Requirements

June 13, 2019

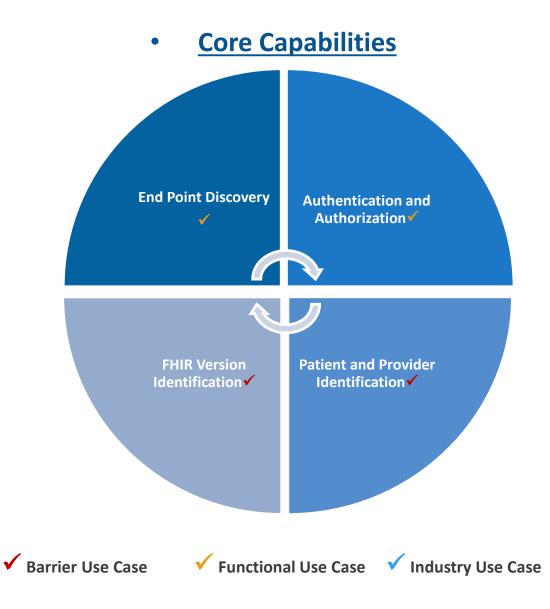
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FHIR At Scale Taskforce



The FAST Initiative - 10 Ecosystem Use Cases (all completed)

- Patient Information Request ✓
- Documentation Templates and Rules Processing√
- Event Based Alerts√
- Quality Reporting ✓



- Shared Care Planning
- Care team coordination ✓
- Push Patient
 Information ✓
- Scheduling ✓
- Referrals ✓



Capability			FAST				
	Identity	Directory/ Versioning/ Scale	Testing/ Certification	Exchange	Security	Pilot	Use Case Traceability
End Point Discovery		✓					End Point Discovery
Resource Version Identification		✓		✓			Version Identification
Authentication	✓				\checkmark		Authentication/Authorization
Authorization	✓				\checkmark		Authentication/Authorization
Reliable Patient Identity Management	✓				✓		Patient/Provider Identification
Reliable Provider Identity Management	✓						Patient/Provider Identification
Event/Message/Topic Subscription/Publication				✓			Event Based Alerts Push Patient Information
Guaranteed Message Delivery		✓					Event Based Alerts Push Patient Information
Role/Context Identification	✓				✓		Shared Care Planning Care Team Coordination
Readiness Credential			✓			\checkmark	End Point Discovery
Standard Based Endpoint Access		✓					End Point Discovery
Synchronous Transaction Support				✓			Patient Information Request
Asynchronous Transaction Support				✓			Event Based Alerts Push Patient Information

"FAST Technical Barriers"



Technical Barriers to FHIR Based Solutions Scalability

(1) Directory Versioning and Scale

Lack of FHIR end point look up system

How do we address the exponential growth in the number of endpoints?

How do we find an endpoint across organization boundaries?

How do we address potential end point variation across partners?

(2) Identity

Lack of consistency to cross walk patient identification during a FHIR exchange

How do we cross-walk patient identity real-time?

How do we address the missidentification risk?

When is member/patient ID a requirement in a FHIR resource?



Technical Barriers to FHIR Based Solutions Scalability

(3) Security

Lack of scalable authentication and authorization models for FHIR based information exchange

Need for a scalable solution to support millions of patients/payers/providers

How do we leverage exiting security guidelines and best practices?

How do we know the FHIR consumer has permission to ask or see?

(4) Conformance Testing and Certification

How do we test / validate consistently in a scalable environment? Automated tool?

What is the basic level of transaction conformance and validation required?

How do we test across multiple stakeholders with varying degrees of maturity?

How do we deal with backward compatibility?



"FAST Regulatory & Policy Barriers"



Regulatory/Policy Barriers to FHIR Based Solutions Scalability

(1) HIPAA Minimum Necessary

Impossible to implement or enforce

Creates significant barriers for realtime access to records

Need solution where requester is responsible for limiting use of data to the declared purpose

"I'll know it when I see it" doesn't translate in computable language

(2) HIPAA Mandatory Transactions

Limiting transaction to the X12 standard impacts innovation and real time exchange for priorauthorization

Need to change from regulation, floor to ceiling change

NPRM – backward compatibility



Regulatory/Policy Barriers to FHIR Based Solutions Scalability

(3) Patient Identifiers

Inability for a single patient identifier causes significant cost and liability

Need ability to assign and communicate a single identifier for use by all providers and payers

(4) Data Blocking

Inability or excessive cost to share information to support TPO creates burden on payer and provider

Need requirement to make provider/payer information available based on need and limited associated cost

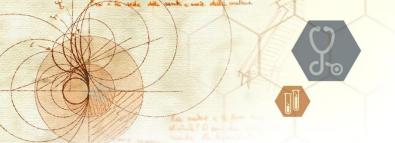
NPRM addressing



Four Adoption Approaches FAST Can Consider

- 1. Identify and evangelize best practices
- 2. Drive a solution approach through a standard
- 3. Drive a solution approach through a regulation
- 4. Identify solutions already in guidance







HL7 Da Vinci Project: An Overview

Laboratory

Reporting

To ensure the success of the industry's **shift to Value Based Care**, Da Vinci established 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.

Member

Identification

Provider Members:

Dallas Children's Health, MultiCare, OHSU, Providence St. Joseph Health, Rush University Medical Center, Sutter Health, Texas Health Resources, Weill Cornel Medicine

Payer Members:

Anthem, BCBSA, BCBSAL, BCBSM, BCBST, BC Idaho, Cambia Health, Cigna, CMS, GuideWell, HCSC, Humana, Independence, United Healthcare

Vendor Members:

Allscripts, Anthem, Athenahealth/Virence(aka GE Centricity), Casenet, Cerner, Cognosante, Edifecs, Epic, HealthLX, InterSystems, Juxly, Optum, InterSystems, Surescripts, ZeOmega

Partners:

HIMSS, NCQA

Documentation Coverage Data Exchange for Templates and **Project Process** Requirements Quality Measures Coverage Rules Define requirements (clinical, Discovery (comment ballot) business, technical and testing Health Record Create Implementation Guide (IG) Payer Data Clinical Data Exchange Create and test Reference Exchange Exchange Framework / Library Implementation (RI) (prove the IG works) Payer Data Pilot the solution Payer Data Prior-Authorization Exchange: Deploy the Solution **Exchange: Directory** Support Formulary Documentation Alerts/Notifications: Payer – Payer **Use Case Status** Templates and Transitions in Care, ER Coverage Coverage Rules admit/discharge Determination In HL7 May ballot as STU or ballot for comment (STU1 ballot) Planned for HL7 July ballot as STU Health Record Gaps in Care & Patient Cost **Exchange: Patient** Planned for HL7 September ballot as STU Information Transparency Data Exchange Use cases in discovery (some may be balloted in January 2020) Risk Based Contract Chronic Illness Performing

Documentation for

Risk Adjustment

So the second se

Ballots and Connectathons



MAY BALLOT (Mar 29 – Apr 29)

- STU Data Exchange for Quality Measures (DEQM)
- STU Coverage Requirements Discovery (CRD)
- Comment Documentation Templates & Rules (DTR)

APR

MAR

- EARLY SEPTEMBER BALLOT (June 21 July 21)
- STU Health Record Exchange (HRex)
- STU Payer Data Exchange (PDex)
- STU PDex Formulary
- STU Clinical Data Exchange (CDex)

JUL



SEP

OCT

ONC Annual Meeting
Da Vinci Meeting & Connectathon



Da Vinci Connectathon & Working Session

MAY

JUN



SEPTEMBER BALLOT (Aug 9 - Sept 9)

AUG

- STU PDex Payer Directory
- STU Documentation Templates and Rules (DTR)
- STU Alerts / Notifications
- STU Payer Coverage Decision Exchange
- STU Prior Authorization Support (Prior Auth)

JANUARY BALLOT (Dec 27 – Jan 26)

DEC

STU Gaps in Care

NOV

STU STU Patient Cost Transparency

HL7 Connectathon MAR



Quality

Improvement

Coverage

Burden

Reduction

Use Case Focus Areas

Data Exchange for Quality Measures Framework:

Gaps in Care & Information

Coverage Requirements Discovery

Documentation Templates and Coverage Rules

Prior-Authorization Support

Clinical Data Payer Data Exchange Exchange Member **Payer Data Exchange:** Payer Data Exchange: **Provider Network Formulary** Access Payer - Payer **Patient Cost** Coverage **Transparency** Determination **Chronic Illness Risk Based Contract Documentation for Member Identification Risk Adjustment Process Improvement Use Case Balloted in May Status** Planned for July Ballot

Use cases in discovery (may be balloted in January 2020)

Planned for September Ballot

Payer Data Exchange Clinical Data Exchange Alerts/Notifications: Data **Transitions in Care, ER** admit/discharge Exchange **Health Record Exchange: Patient Data Exchange Performing Laboratory** Reporting



Information Exchanges Supported by Da Vinci IGs

Quality Measures and Gaps

- [1] Data Exchange for Quality Measures
- [2] Gaps in Care and Information

Member Directed Exchange (CMS NPRM)

- [3] Payer Data Exchange
- [4] Payer Data Exchange-Payer Network (Directory)
- [5] Payer Data Exchange-Formulary
- [6] Payer Coverage Decisions (Treatment)

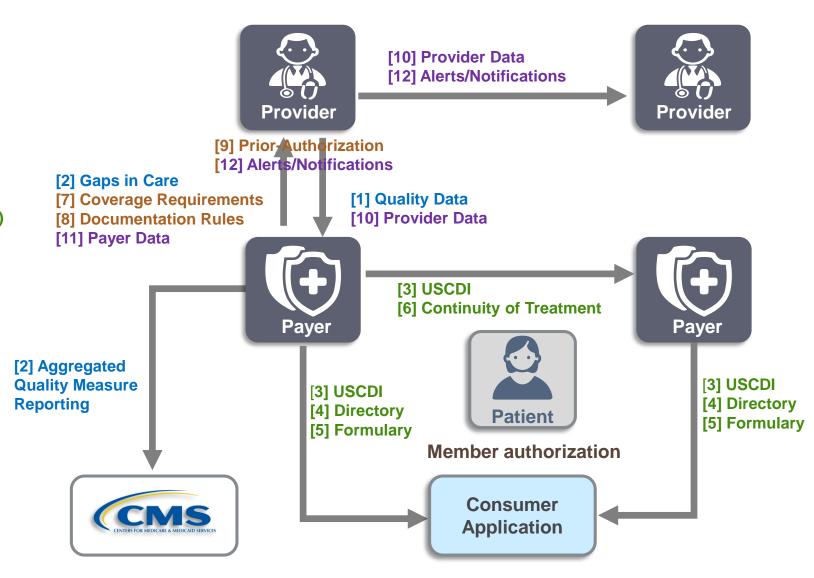
Coverage/Documentation Requirements

- [7] Coverage Requirements Discovery
- [8] Documentation Templates and Rule
- [9] Prior-Authorization Support

Patient Data Exchange

- [10] Clinical Data Exchange (Provider Data)
- [11] Payer Data Exchange (Payer Data)
- [12] Alerts/Notification

Patient Cost Transparency (in discovery)

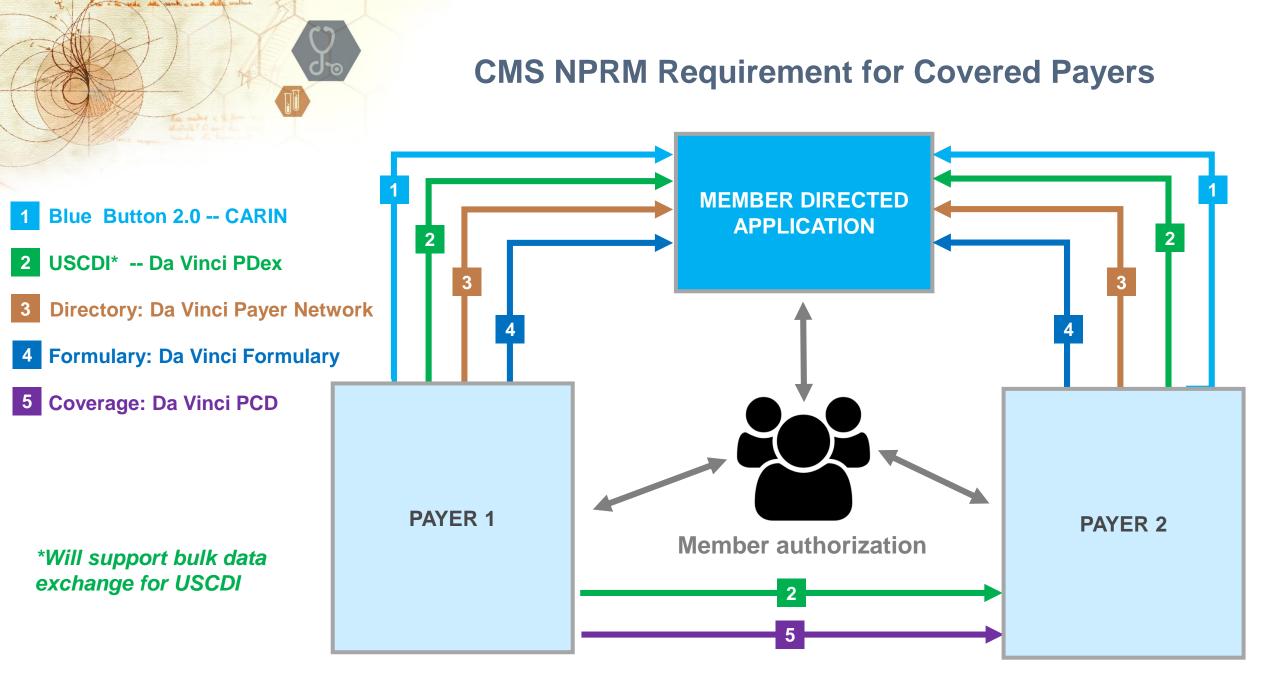


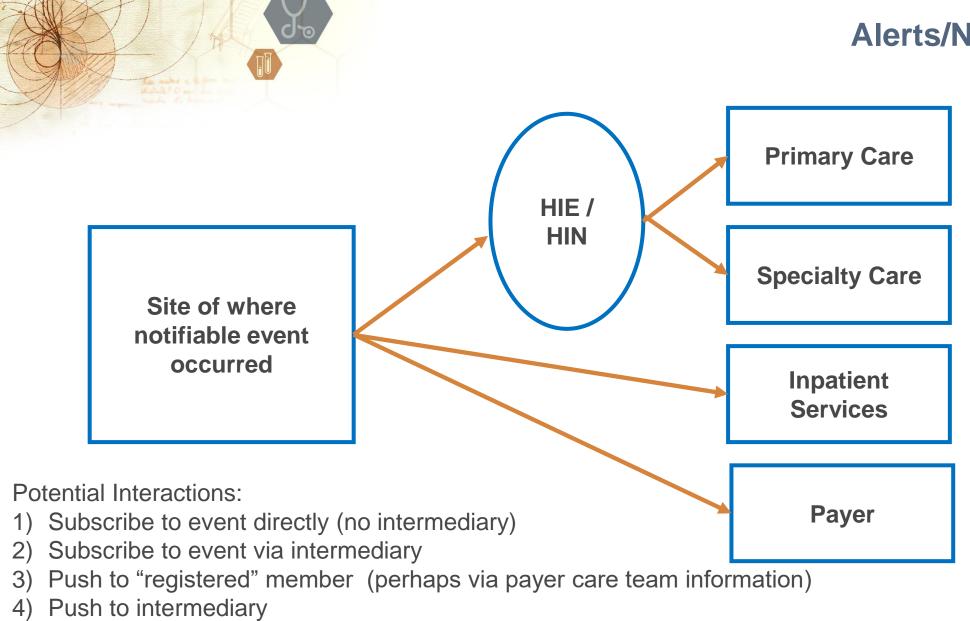


Work Breakdown to Support CMS NPRM

Approach (preliminary) to work efforts underway to meet the forthcoming CMS rules

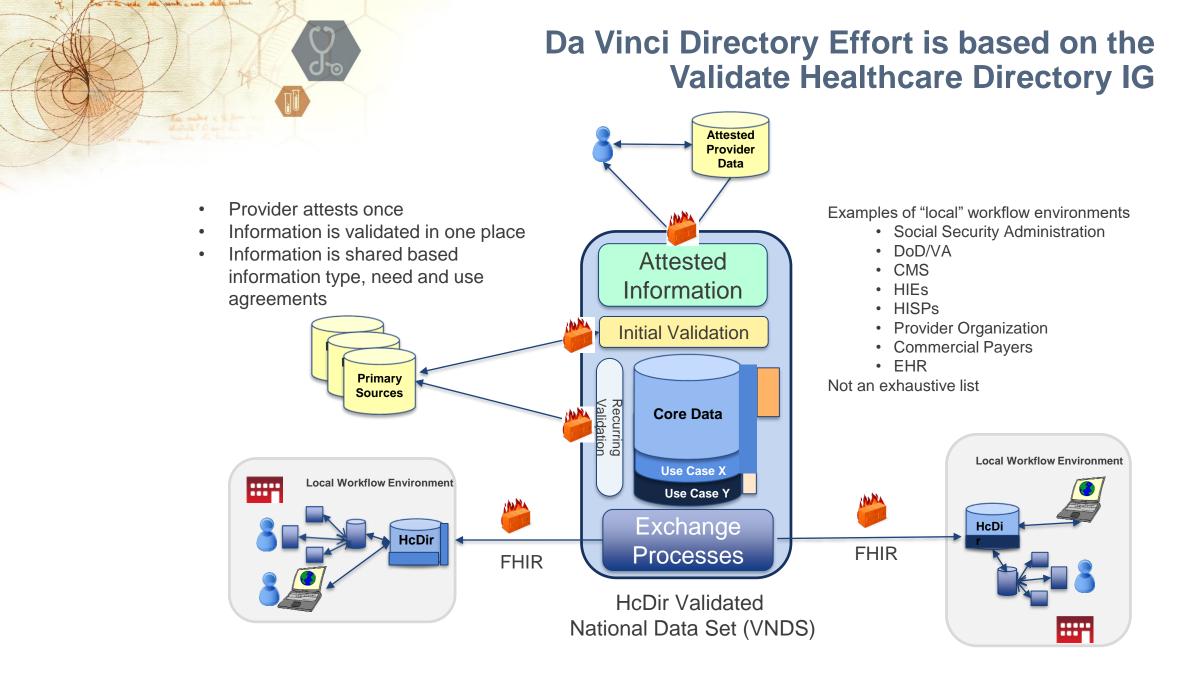
WORK BREAKDOW	VN TO SUPPORT CMS NPRM	PAYER TO:				
SUB TYPE	RESOURCE / PROFILE	BUILD	MEMBER	PROVIDER	PAYER	
Financial	EOB	CARIN	CARIN			
Clinical	USCDI / US Core / Da Vinci	Da Vinci	DV for CARIN	Da Vinci	Da Vinci	
All	USCDI / US Core / Da Vinci	Da Vinci	DV for CARIN	Da Vinci	Da Vinci	
Treatment	USCDI / US Core / Da Vinci	Da Vinci			Da Vinci	
RTBC	RTBP / FHIR R4	CARIN NCPDP	CARIN NCPDP	CARIN NCPDP		
Pharma Data Medications Formulary	USCDI / US Core	Da Vinci	DV for CARIN	Da Vinci	Da Vinci	
	Da Vinci (new Profile)	Da Vinci	DV for CARIN	Da Vinci	Da Vinci	
Payer & Pharma Network	US Core / VHDS / Da Vinci	Da Vinci	DV for CARIN	Da Vinci		
	Financial Clinical All Treatment RTBC Medications Formulary Payer & Pharma	Financial Clinical USCDI / US Core / Da Vinci All USCDI / US Core / Da Vinci Treatment USCDI / US Core / Da Vinci RTBC RTBP / FHIR R4 Medications Formulary Da Vinci (new Profile) Payer & Pharma US Core / VHDS / Da Vinci	Financial Clinical EOB CARIN Clinical USCDI / US Core / Da Vinci Da Vinci Treatment USCDI / US Core / Da Vinci Da Vinci Treatment USCDI / US Core / Da Vinci RTBC RTBC RTBP / FHIR R4 Medications USCDI / US Core Da Vinci Tormulary Da Vinci Da Vinci	Financial EOB CARIN Clinical USCDI / US Core / Da Vinci Da Vinci Da Vinci Da Vinci Da Vinci Da Vinci Treatment USCDI / US Core / Da Vinci Da Vinci Da Vinci Da Vinci CARIN Da Vinci Da Vinci CARIN Da Vinci Da Vinci CARIN NCPDP Medications USCDI / US Core Da Vinci CARIN NCPDP Da Vinci Da Vin	Financial EOB CARIN Clinical USCDI / US Core / Da Vinci Da Vinci Da Vinci Da Vinci Da Vinci Da Vinci Treatment USCDI / US Core / Da Vinci Da Vinci Da Vinci Da Vinci Da Vinci CARIN Da Vinci Da Vinci CARIN Da Vinci Da Vinci CARIN NCPDP CARIN NCPDP Medications USCDI / US Core Da Vinci Do Vinci Da Vinci Da Vinci Da Vinci Da Vinci Da Vinci Da Vinci Do Vinci	





Alerts/Notification

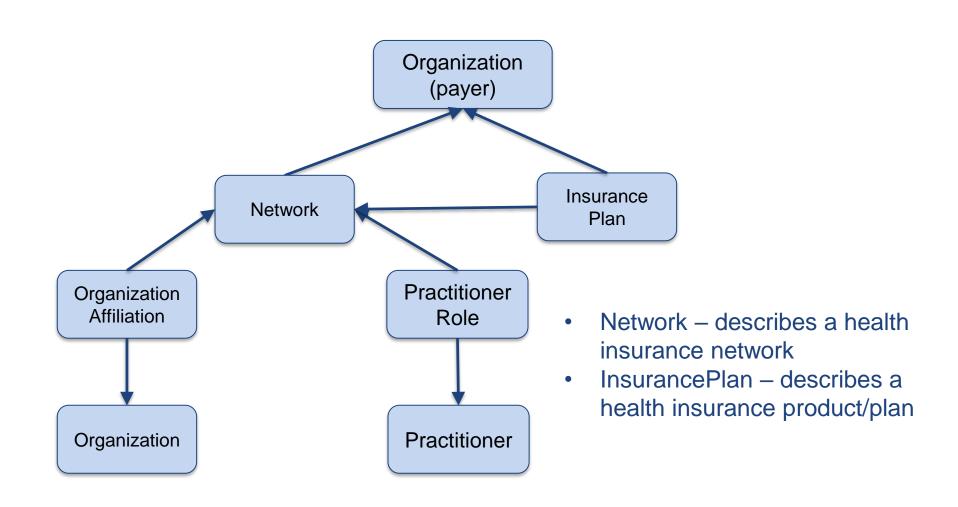
Any care team member can be connected directly or via an intermediary (e.g. HIE)





Da Vinci Directory Effort is based on the Validate Healthcare Directory IG

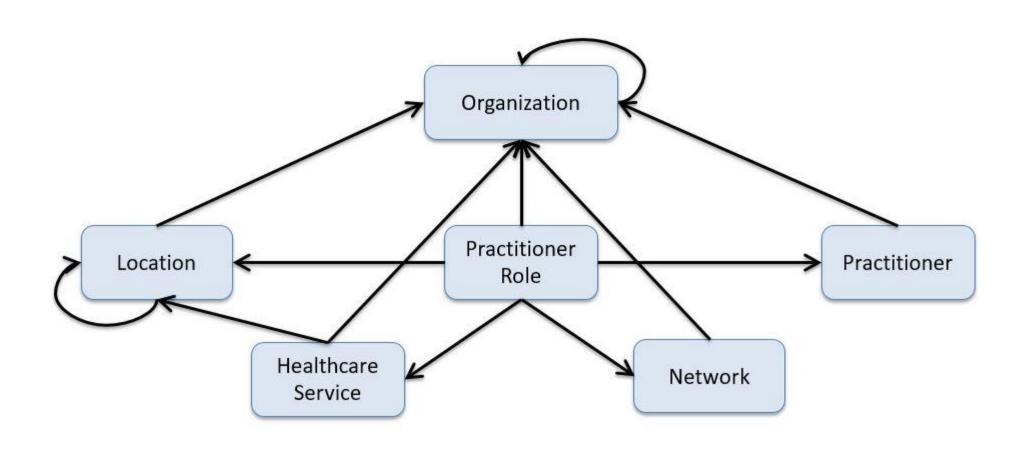
Data Model – Health Insurance





Da Vinci Directory Effort is based on the Validate Healthcare Directory IG

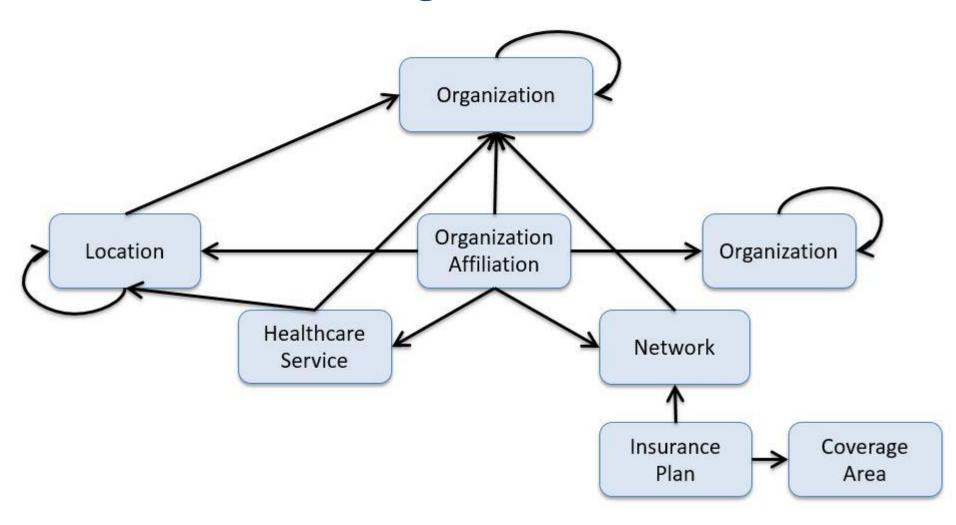
Data Model – Practitioner Role





Da Vinci Directory Effort is based on the Validate Healthcare Directory IG

Data Model – Organization Affiliation





Questions?