

HL7 Da Vinci Project December 2019



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.

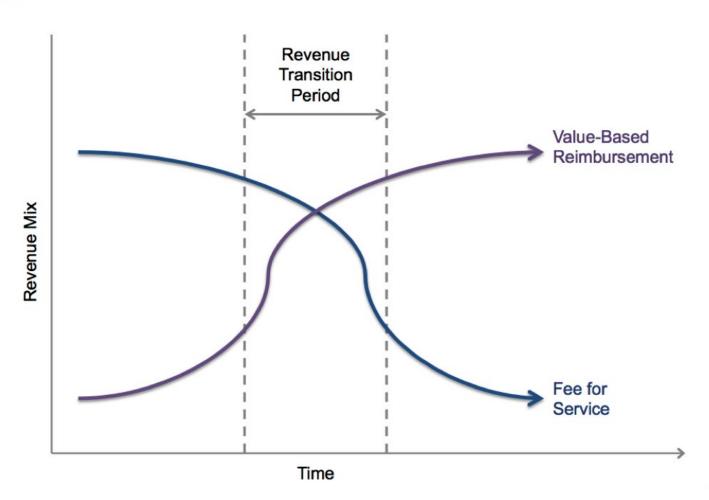


Success Measures:

Use of FHIR®, implementation guides and pilot projects.



Empower End Users to Shift to Value

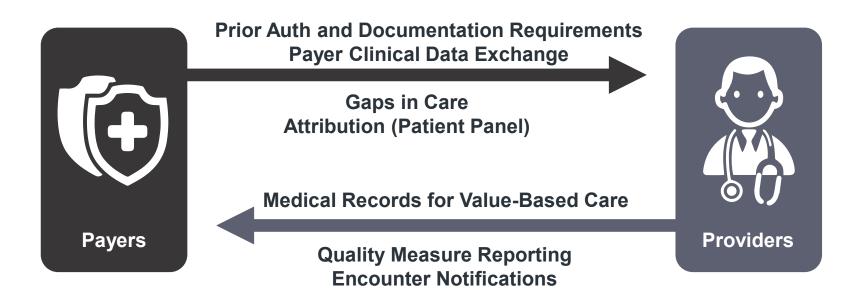


As a private industry project under HL7 International, Da Vinci will unleash critical data between payers and providers required for VBC workflows leveraging HL7® FHIR®





Da Vinci is Driving Standards for the Exchange of Information Critical to Patient Care





2019 MEMBERSHIP





Membership by Primary Industry Role

Providers





















Payers



































Vendors





























Partners









Quality

Improvement

Coverage

Burden

Reduction

Use Case Focus Areas

Member

Access

Data Exchange for **Quality Measures**

Gaps in Care & Information

Coverage Requirements Discovery

Documentation Templates and Rules

Prior-Authorization Support

Clinical Data Exchange

Payer Data Exchange: Formulary

Payer Coverage Decision Exchange

Payer Data Exchange

Payer Data Exchange: Directory

Patient Cost Transparency

Risk Based Contract Member Identification Chronic Illness
Documentation for
Risk Adjustment

Use Case

Status

Process Improvement

In Ballot Reconciliation

Early February or February 2020 Ballot

In Build

In Discovery

Payer Data Exchange

Clinical Data Exchange

Alerts / Notifications

Patient Data Exchange

Performing Laboratory Reporting

7

Clinical

Data

Exchange



Industry Progress and HIMSS Demonstration Update

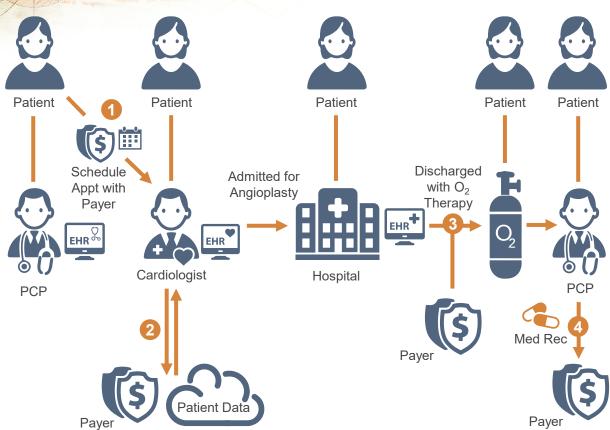






UNLOCKING PAYER INFORMATION TO IMPROVE CARE

HIMSS19 Demonstration



The visual describes the interactions demonstrated at HIMSS Interoperability Showcase, direction of each exchange, the FHIR standards used, the setting where the interaction is occurring and the participants.

Each step represents a provider – payer exchange using FHIR IG

Activities by the Numbers	Stats
Total practice runs	3
Total public runs	23
Filming runs	1
Total variations	14
Total roles	96
Total role system issues	7
Role availability	92.7%

Activities by the Numbers	Stats
AEGIS Touchstone available	100%
Total MCs	6
Total EHRs	2
Total Payer/Partner	4
Total Payer only	5
Total Sponsors	16
Number of visitors (approx.)	500
Percent that left during vignette	< 10 %

CLINICAL SUMMARY

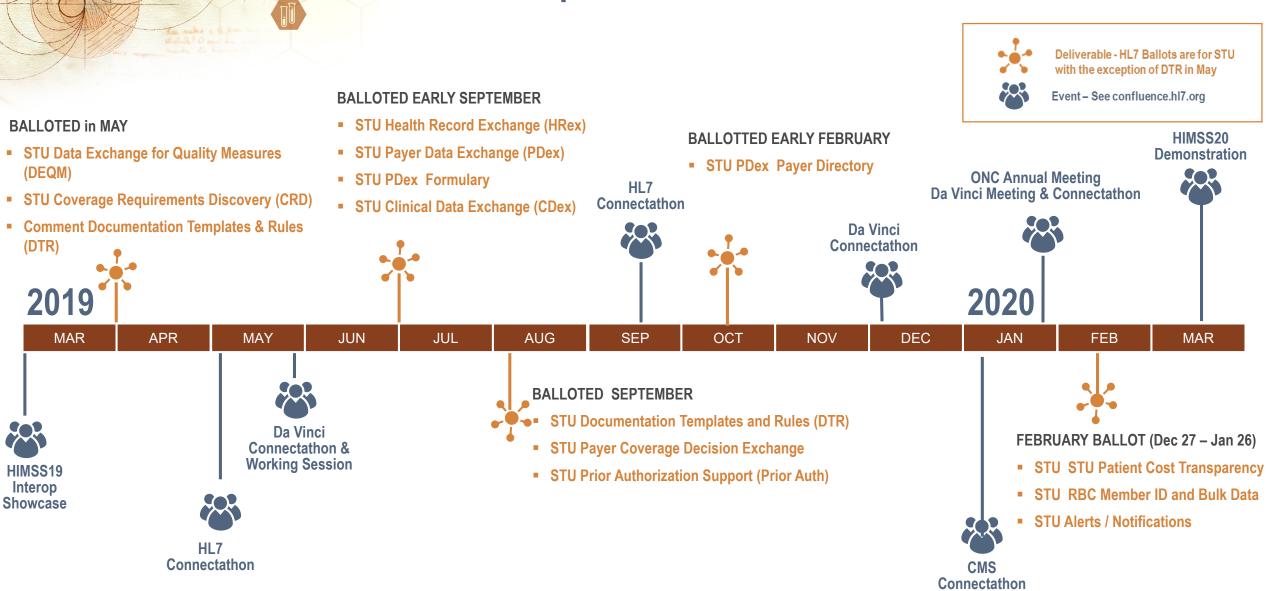
Da Vinci is demonstrating the ability to exchange information between payers and providers using HL7[®] FHIR[®] and CDS Hooks[®] as part of the Interoperability Showcase.

The vignette describes a clinical encounter for 78-year-old Asian women named Dara that starts with her primary care physician, proceeds to a cardiologist who admits Dara to the hospital for an angiogram and observation where it is determined that her chronic obstructive pulmonary disease has progressed to the point that she needs supplemental oxygen.

As Dara returns to her primary care physician, her previous medications are reconciled with those prescribed at discharge, the PCP reports the medication reconciliation, in support of a quality measure the Medicare Advantage program is following for its members.



2019 Implementation Guides and Connectathons





Implementation Guide Status

Implementation Guide	IG Status	RI Live	Number of Connectathons
Quality Improvement			
Data Exchange for Quality Measures	•	V	5
Gaps in Care & Information			
Burden Reduction			
Coverage Requirements Discovery	•	V	5
Documentation Templates and Payer Rules	•	V	4
Prior Authorization Support		V	2
Member Access			
Health Record Exchange Framework (HRex)	•	*	*
Clinical Data Exchange (CDex)		V	3
Payer Data Exchange (PDex)		V	3
Payer Data Exchange (PDex): Formulary	•	V	2
Payer Data Exchange (PDex): Plan Network Directory	•	V	2
Payer - Payer Coverage Decision Exchange	•	V	2
Patient Cost Transparency	0	V	

Implementation Guide	IG Status	RI Live	Number of Connectathons
Clinical Data Exchange			
Alerts: Notification (ADT), Transitions in Care, ER admit/ discharge	•	V	2
Health Record Exchange: Patient Data Exchange	0		
Health Record Exchange: Patient Data Exchange	0		
Performing Laboratory Reporting	0		
Process Improvement			
Risk Based Contract Member Identification	•		
Chronic Illness Documentation for Risk Adjustment	0		

KEY

- Planning
- Build
- STU1 Ballot Reconciliation > Publish
- STU2 Ballot Reconciliation > Publish
- * Not Meaningful / Foundational IG



2020 Implementation Guide Progress



FEBRUARY BALLOT (Dec 27 - Jan 26)

- STU1 Alerts / Notifications
- STU 1 RBC Member ID and Bulk Data
- STU1 PDex Payer Directory (early)

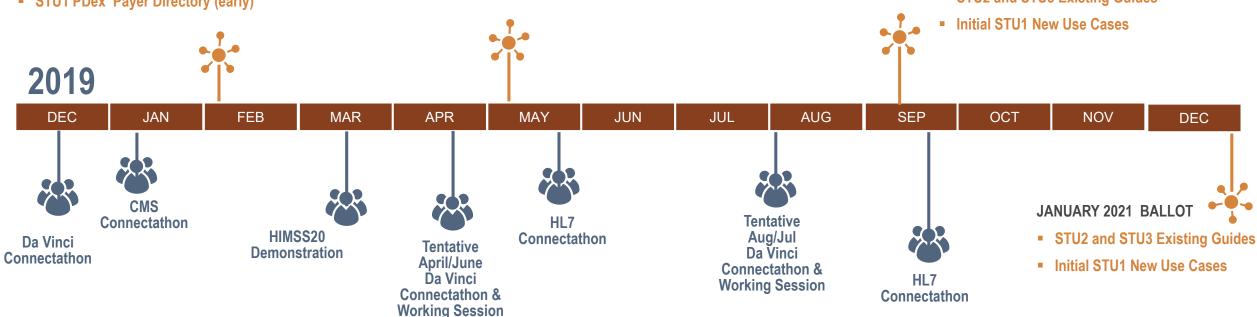
STU1 Gaps in Care

MAY BALLOT

- STU1 Clinical Data Exchange (CDex)
- STU2 and STU3 Existing Guides
- Initial STU1 New Use Cases

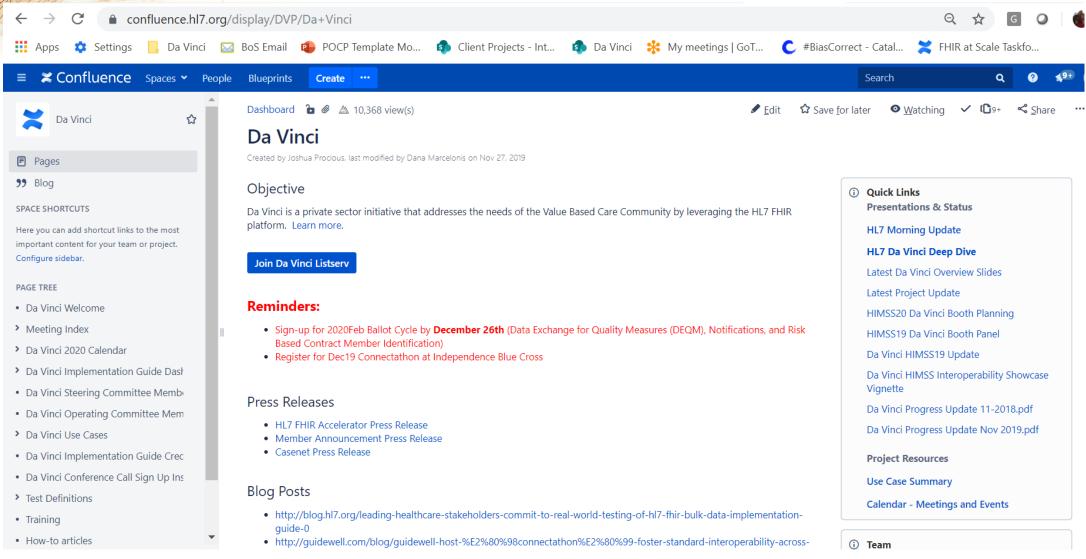
SEPTEMBER BALLOT

STU2 and STU3 Existing Guides





Resources on http://confluence.hl7.org





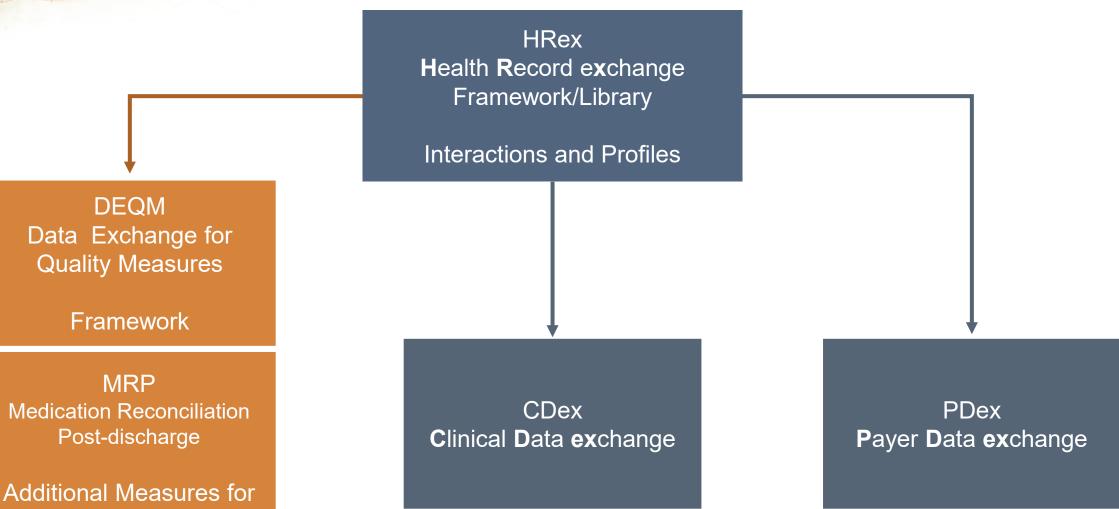
CDex – Clinical Data Exchange

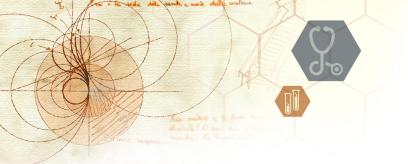




DEQMIG

Health Record Exchange





Health Record Exchange: Health Record Exchange Framework/Library

SUMMARY

- The Da Vinci Payer Health Record Exchange (HRex) Framework/Library specifies
 the FHIR elements used in multiple Da Vinci implementation guides. This includes
 FHIR profiles, functions, operations, and constraints on other specifications such
 as CDS-Hooks and other aspects of Da Vinci Use Cases that are common across
 more than a single use case.
- Da Vinci HRex Implementation Guide (IG) will make use of US Core profiles that are based on the FHIR R4 specification wherever practical. The HRex IG will use the HL7 FHIR Release 4/US Core STU3 specification as its base but will provide additional guidance and documentation to support implementations that follow the HL7 FHIR STU3/US Core STU2 and HL7 FHIR DSTU2/Argonaut specifications.
- The HRex profiles documented in this IG will be used to exchange data between providers systems (e.g. EHRs) and other providers, payers, and third-party applications were appropriate. In addition, exchanges from payer systems to providers, other payers, and third-party applications are supported by the HRex profiles and operations.
- HRex may define new extensions, profiles, value sets, constraints/extension to other specification (e.g. specific CDS-Hooks) that are specific Da Vinci requirements. Where appropriate these Da Vinci specific artifacts will be promoted for incorporation into the future versions of existing standards (e.g. R4 US Core profiles) and deprecated in this guide on publication in the updated standard.

STATUS

Stage	July STU Ballot
Implementation Guide	HRex – CI Build
Reference Implementation	N/A
Confluence Artifacts	Health Record Exchange Framework (HRex)



Health Record Exchange: Clinical Data Exchange (CDex)

SUMMARY

- Providers and Payers need to exchange information regarding prior and current healthcare services planned for or received by the patient/member to more effectively manage the patients care. Currently, no FHIR implementation guides exist to standardize the method of exchange (push, pull, triggers, subscription, etc.) and the formal representation (e.g. Documents, Bundles, Profiles and Vocabulary) for the range of exchanges between providers and providers or providers and payers of current and emerging interest to the involved parties.
- The focus is on the exchange of provider and payer originated information to improve patient care and reduce provider and payer burden.
- This use case will define combinations of exchange methods (push, pull, subscribe, CDS Hooks, ...), specific payloads (Documents, Bundles, and Individual Resources), search criteria, conformance, provenance, and other relevant requirements to support specific exchanges of clinical information between: 1) providers, 2) a provider and a payer, 3) a payer and providers, and/or a provider and any third party involved in value based care (e.g. a quality management organization).
- This project will reference, where possible, the prior work from Argonaut, US Core and QI Core effort for FHIR DSTU2, STU3

STATUS

Stage	July STU Ballot
Implementation Guide	CDex - CI Build
Reference Implementation	CDex Communication Response App CDex Communication Request App
Confluence Artifacts	Clinical Data Exchange (CDex)

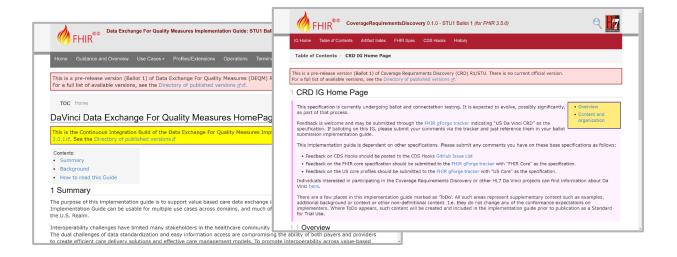


Links for CDex Upcoming Connectathon

- General links to Da Vinci and recent presentations: https://confluence.hl7.org/display/DVP/Da+Vinci
- Overview of all of the Use Cases: <u>https://confluence.hl7.org/display/DVP/Da+Vinci+Implementation+Guide+Dashboard</u>
- Detail link to Da Vinci CDex Resources: https://confluence.hl7.org/pages/viewpage.action?pageId=40738757



- Listserv Sign Up
- Background collateral
- Active Use Case content
- Implementation Guides
- Reference Implementations
- Calendar of Activities & Updates



Follow Progress, Test, Implement

RESOURCES

- HL7 Confluence Site https://confluence.hl7.org/display/DVP/
- Where to find Da Vinci in Industry https://confluence.hl7.org/display/DVP/Da+Vi nci+2020+Calendar
- Use Case Summary and Links to Call In & Artifacts https://confluence.hl7.org/display/DVP/Da+Vi nci+Use+Cases
- Reference Implementation Code Repository - https://github.com/HL7-DaVinci



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