



Da Vinci Burden Reduction



CRD/DTR/PAS Testing Proposal

Raj Godavarthi | Director, Technology & Operations

Sree Mallipeddi | Principal Solution Architect
MCG Health



Background

- ▶ In order to test the interoperability principles defined in the CRD, DTR and PAS implementation guides, we propose a multi-participant approach to testing components/roles of the guides.

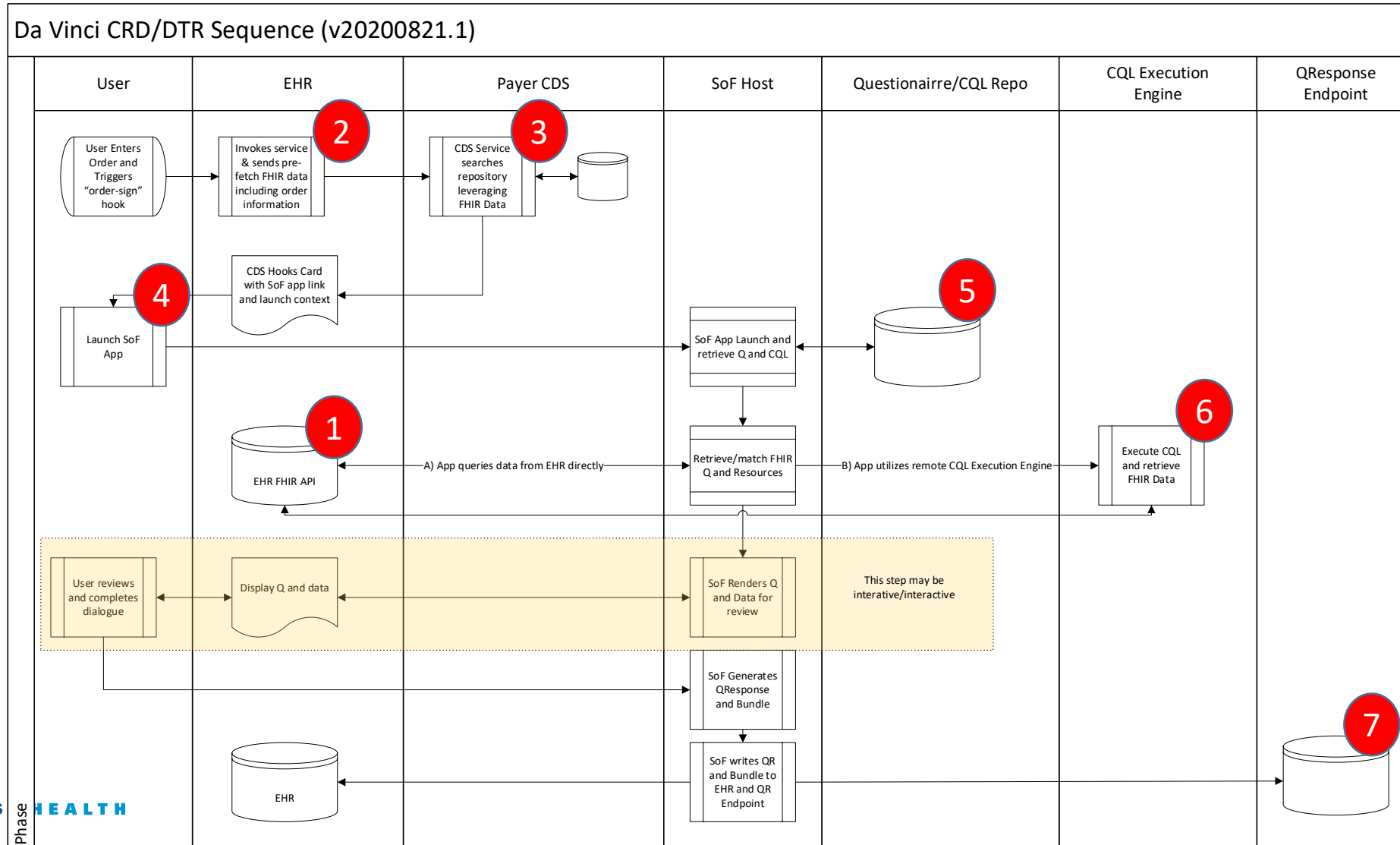


Roles

1. Patient Data FHIR Endpoint/Server
2. CDS Hooks Launch
3. CDS Hooks – CDS Service
4. SMART on FHIR App
5. PA Questionnaire/CQL repository
6. CQL Execution Endpoint (if necessary)
7. PAS Claim Submit Endpoint



Roles in a SMART-on-FHIR based CRD-DTR-PAS Interaction



Capabilities



Role	MITRE	MCG	Mettles	Logica
1. Patient Data Endpoint (FHIR)	X	X		X
2. CDS Hooks Launch				X
3. CDS Hooks CDS Service	X			X
4. SMART on FHIR App	X	X		X
5. PA Questionnaire/CQL repository	X	X		X
6. CQL Execution Endpoint (if necessary)	X	X		X
7. PAS Claim Submit Endpoint	Hosted by Logica	X		Hosted

Prior Authorization Examples

- ▶ Home Oxygen Therapy - Mitre
- ▶ COPD Admission - MCG
- ▶ Pneumonia Admission - MCG
- ▶ Cardiac Stress Echocardiogram - Mettles



Connectathon Testing Proposal



- ▶ Based on the combination of example PA scenarios and the participant capabilities, each testing scenario would use different combinations of capabilities from two or more participants.



Example Testing Scenario 1a – Home Oxygen

Role	MITRE	MCG	Mettles	Logica
1. Patient Data Endpoint (FHIR)	x			
2. CDS Hooks Launch				x
3. CDS Hooks CDS Service				x
4. SMART on FHIR App		x		Context
5. PA Questionnaire/CQL repository	x			
6. CQL Execution Endpoint (if necessary)		x		
7. PAS Claim Submit Endpoint	Hosted by Logica			

Example Testing Scenario 1b – Home Oxygen

Role	MITRE	MCG	Mettles	Logica
1. Patient Data Endpoint (FHIR)	x			
2. CDS Hooks Launch			?	x
3. CDS Hooks CDS Service			?	
4. SMART on FHIR App			x	Context
5. PA Questionnaire/CQL repository	x			
6. CQL Execution Endpoint (if necessary)			?	
7. PAS Claim Submit Endpoint	Hosted by Logica			

Example Testing Scenario 2a – COPD



Role	MITRE	MCG	Mettles	Logica
1. Patient Data Endpoint (FHIR)		X		
2. CDS Hooks Launch				X
3. CDS Hooks CDS Service		X		
4. SMART on FHIR App		X		
5. PA Questionnaire/CQL repository		X		
6. CQL Execution Endpoint (if necessary)		X		
7. PAS Claim Submit Endpoint		X		

Example Testing Scenario 2b – COPD



Role	MITRE	MCG	Mettles	Logica
1. Patient Data Endpoint (FHIR)		x		
2. CDS Hooks Launch				x
3. CDS Hooks CDS Service				x
4. SMART on FHIR App			x	
5. PA Questionnaire/CQL repository		x		
6. CQL Execution Endpoint (if necessary)			?	
7. PAS Claim Submit Endpoint			?	

Next Steps

- ▶ Identify additional participants for testing along with their capabilities and supported PA examples
- ▶ Document participant's capabilities in Confluence
 - Endpoint URLs
 - PA Scenario artifacts
 - Example patient data
 - Questionnaire
 - CQL Library
- ▶ Establish a weekly “scrum” call of participants to identify blockers address resolution
- ▶ Asynchronous testing and communication via ... Zulip?



Questions?

