



Use Case Title: Nationwide Coordinated Care

Short Description: David, a 43-year-old living in rural Washington, is diagnosed with high blood pressure. A few months later, David suffers a stroke. After stabilizing him, his community hospital ED transfers him to a larger acute hospital, where he is admitted, treated and discharged to home care, avoiding readmission. Later that year, David moves to Texas and establishes a new PCP. Regardless of where his care occurs, David and his providers have access to his health records nationwide via CommonWell Health Alliance, resulting in positive health outcomes.

Scheduled times: This demonstration occurs 45 minutes past the hour.

Participants: Brightree, Cerner, CommonWell Health Alliance, eClinicalWorks, ELLKAY, Greenway Health, MEDITECH, OneRecord

Scenario	Vendor	Products	Standards
<p>Story: David Garcia is a typical mid-forties man, working at a fairly stressful 50-hour a week job near his home in Covington, WA. During his annual checkup at his PCP, the provider notes David has high blood pressure and puts him on Lisinopril.</p> <p>Technical: His PCP participates in the CommonWell Network via his eClinicalWorks EHR. As his PCP automatically enrolls their patients who have agreed to data sharing as part of their standard HIPAA agreement, David’s records from his current and past PCP visits will be available via the CommonWell network to other participating providers. The system also sees that he has previously been seen at the Seattle hospital in 2012 and links his records there.</p>	eClinicalWorks	Patient enrollment, ADT Notification	FHIR, XDS.b, C-CDA, HL7
<p>Story: Recently, the local community hospital has migrated from an older EHR system to MEDITECH, and legacy data from the previous EHR has been archived in LKArchive. From within MEDITECH, the provider can securely access David’s historical data from his visits before the hospital started using MEDITECH. In the Allergies module, the provider can see that David has an allergy to latex that was recorded during an ER visit for stitches years ago, which has not been captured in his current</p>	ELLKAY	LKArchive	C-CDA

<p>records. Access to this historical data will enable the provider to make more informed decisions about David’s current condition, and knowing that latex gives David a rash, will inform caregivers to use non-latex products and avoid increasing David’s discomfort.</p> <p>Technical: The data are pulled from LKArchive into David’s patient profile in MEDITECH and can be viewed via the LKArchive dashboard. The LKArchive stores all of David’s legacy data from the previous EHR, sorted by module.</p>			
<p>Story: Three months later, David wakes up Saturday morning with significant impairment and his wife calls 911. He presents at the local community hospital’s ED with slurred speech, a severe headache and an impaired gait.</p> <p>The physician accesses his CommonWell-available records from February, something that typically would have been challenging to access on a weekend, and discovers that he is currently on medication for high blood pressure, which he was not able to share due to his inability to speak. He is evaluated by the ED physician, a CT Scan is completed, and it is determined the patient is having a stroke. They administer Alteplase and transfer him to an urban hospital for in-patient care.</p> <p>Technical: Using FHIR(R), the MEDITECH EHR automatically queries the CommonWell network, and through a federated query, retrieves his PCP records. The ED physician is able to view the PCP CCDA from his earlier visit. Upon admittance and discharge, MEDITECH sends a notification to his PCP alerting him of David’s diagnosis and that he was transferred.</p>	MEDITECH	Expance	FHIR, C-CDA, HL7 ADT
<p>Story: David is admitted to the neurology floor at the larger hospital in Seattle. Twenty-four hours later, the patient is started on Heparin and Coumadin while in-patient and a follow-up MRI is completed to ensure there is no bleeding and to re-evaluate the clot. After a five-day, in-patient stay, David is discharged to home health with a prescription for Coumadin, Lisinopril and HCTZ, as well as orders for physical therapy, speech therapy and occupational therapy.</p> <p>Technical: The Cerner EHR automatically queries and retrieves the records from both the PCP and ED. The intensivist reviews the records, and notes and reconciles the medications list and CT Scan results directly into his Cerner chart for comparison to the subsequent in-patient scan. Since the patient has already linked their records at the hospital, the physician just needs to save his entries and the files will be available to all other CommonWell-participating providers. Upon admittance and discharge, Cerner sends a notification to the PCP alerting him of David’s diagnosis and that he was discharged to home health.</p>	Cerner	PowerChart	FHIR, ebXML, C-CDA, HL7, ADT, Direct
<p>Technical: eClinicalWorks shows receiving the notification in the PCP’s EMR from the Seattle hospital regarding David’s diagnosis and discharge to home health.</p>	eClinicalWorks	ADT Notification	HL7

<p>Story: David transitions home with home health nursing, physical therapy, speech therapy and occupational therapy. After six weeks of care and rehab by his home health team, David is discharged. Later that year, David wants to move closer to family and relocates to Hurst, TX, a Fort Worth suburb.</p> <p>Technical: Referred to Home Health via Direct secure message containing a CCD and a face-to-face document. Via FHIR(R), Brightree queries and retrieves records via the CommonWell network and pulls select records into his home health record as needed for use by clinicians.</p>	Brightree		
<p>Story: A few weeks after moving to Texas, David looks to establish a new PCP. To prepare for the visit, he accesses all his patient records from the past year as well as some additional records from his past, through his connected PHR. He reviews the records and notes that he no longer is taking his allergy medicine for molds now that he is no longer in Washington. He makes a note to tell the doctor at his appointment this week, as well as notes it in his own PHR to reflect he stopped the medication.</p> <p>Technical: David logs into his OneRecord and queries and retrieves his records via the CommonWell network. OneRecord automatically imports clinical data from his retrieved CCDs into his aggregate health record. Duplicate items are automatically ignored, and potential duplicates are flagged for his review. David reviews and reconciles duplicate items, keeping the new items that he imported from the CommonWell network. After he reviews his longitudinal health record, he preps for his next appointment with his new PCP.</p>	OneRecord		IHE ITI ebXML XCA HL7 CDA C-CDA
<p>Story: David arrives at his new PCP office for a new patient visit. The doctor can see all of David's past encounters, including his history of stroke and high blood pressure in Washington, as well as David's notes in his PHR regarding the stopping of his allergy medication. After a physical exam, the doctor is impressed with how well David has recovered from his stroke and advises that he should schedule an appointment in six months for follow-up.</p> <p>Technical: The new PCP can use the Summary view in the Greenway enrollment application to see all of David's past visits. Within the patient's summary, he can preview the clinical documents files and/or save a select number of records. Once it is saved to the chart, the clinician can consume portions of the data directly into the Greenway EHR, as he sees fit.</p>	Greenway Health	Intergy	XCA
<p>Thanks to the CommonWell services and network, David's providers were able to coordinate his care across thousands of miles, different providers and venues of care, and health IT systems, including records from an EHR system no longer in use. David was also able to help manage his own</p>			

care and be a more empowered patient thanks to his personal health record connected to the CommonWell network. All of which resulted in positive health outcomes for David.			
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HIMSS18 Interoperability Showcase Use Case

Data exchange standards:

Vendor	Product	Category	Protocol	Interop Body	Interop Profile	Interop Actor	Interop Message	Send or Receive	Transaction Description
MEDITECH	Expanse	EHR	FHIR	HL7	CommonWell Health Alliance REST API	N/A	N/A	Retrieve	Find Documents Retrieve Documents
			FHIR	HL7	CommonWell Health Alliance REST API	N/A	N/A	Respond	Find Documents Retrieve Documents
			CDA	HI7	CCDA	N/A	N/A	Create and Consume	Content Creator Content Consumer
			ADT	HL7	ADT	N/A	N/A	Send	Patient Provider Notifications
ELLKAY	LKArchive	Archived Data Repository	CDA	HL7	CCDA	N/A	N/A	Send	Clinical Document Export
			SAML	SAML	XUA	Service Provider	N/A	N/A	Single Sign-on
			FHIR	FHIR	XUA	Service Provider	N/A	N/A	Single Sign-on
eClinicalWorks	V11	EHR	FHIR	HL7	CommonWell Health Alliance REST API			Send	Patient enrollment
			ebXML	IHE ITI	XDS	Document consumer	ITI-18, ITI-43	Query & Retrieve	Find Documents & Retrieve Documents

			ebXML	IHE ITI	XDS	Document Source	ITI-18, ITI-43	Send	Respond to find documents & retrieve documents
			CDA	HI7	CCDA			Create and Consume	Content Creator Content Consumer
			ADT	HL7	ADT			Send and Receive	Patient Provider Notifications
Brightree	Brightree HHP	Home Health	SMTP	ONC	Direct	Document Recipient	N/A	Receive	
			FHIR	HL7	CommonWell Health Alliance REST API	N/A	N/A	Retrieve	Find Documents, Retrieve Documents
			XCA	IHE	CommonWell Health Alliance REST API	N/A	N/A	Respond	Cross-Gateway Query, Cross-Gateway Retrieve

OneRecord	OneRecord	PHR	FHIR	HL7	CommonWell Health Alliance REST API	N/A	N/A	Send	Patient enrollment
			ebXML	IHE ITI	XCA	Document consumer	ITI-38ITI-39	Query & Retrieve	Find Documents & Retrieve Documents
			ebXML	IHE ITI	XCA	Document Source	ITI-38ITI-39	Send	Respond to find documents & retrieve documents
			CDA	HI7	CCDA	N/A	N/A	Create and Consume	Content Creator Content Consumer

Greenway	Intergy	EHR	FHIR	HL7	CommonWell Health Alliance REST AP	N/A	N/A	Send	Person Enrollment Patient Linking
			XCA	IHE ITI	CommonWell Health Alliance Broker	Initiating Gateway	ITI-38 ITI-39	Retrieve	Cross-Gateway Query Cross-Gateway Retrieve
			CDA	CDA	CCDA	N/A	N/A	Create and Consume	Content Creator Content Consumer

Cerner	PowerChart	EHR	FHIR	HL7	CommonWell Health Alliance REST API	N/A	N/A	Send	Person Enrollment Patient Link
			XCA	IHE ITI	CommonWell Health Alliance Broker	Initiating Gateway	ITI-38 ITI-39	Retrieve	Cross-Gateway Query Cross-Gateway Retrieve
			XCA	IHE ITI	CommonWell Health Alliance Broker	Responding Gateway	ITI-38 ITI-39	Respond	Cross-Gateway Query Cross-Gateway Retrieve

			CDA	HL7	CCDA	N/A	N/A	Create and Consume	Content Creator Content Consumer Unstructured Documents
			ADT	HL7	ADT	N/A	N/A	Send	Patient Provider Notifications