

Care Everywhere Supported Standards

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Care Everywhere Supported Standards

Overview of Care Everywhere Supported Standards

Care Everywhere, Epic's interoperability platform, is used to exchange patient data with other healthcare institutions, HIEs, and government agencies during point-of-care treatment and care coordination workflows. Care Everywhere can exchange information directly between systems without an intermediary and follows transaction and terminology standards specified by IHE, ONC, HITSC, and other industry groups. In Epic's query-based approach, Care Everywhere can use transactions from the XCA and XDS.b integration profiles developed by IHE. When pushing or receiving pushed information for planned transitions of care, Care Everywhere can use the XDS.b integration profiles developed by IHE and Direct Project standards.

Using both query-based and push-based approaches, Care Everywhere can receive and display Continuity of Care Documents as well as other industry standard document types, including CDA-based documents. Care Everywhere supports the exchange of documents defined in the Consolidated CDA framework, which is required for ONC 2015 Edition certification (for Meaningful Use/Promoting Interoperability).

This document lists the standards supported by Care Everywhere, which is one method organizations can use to connect with Epic.

Supported Workflows

Workflow	Description	Relevant Standards	Use Cases
Patient Discovery	Discovers patient identifiers that can be used for interoperability exchange.	<ul style="list-style-type: none">• XCPD• PDQ HL7 v3	<p>Requesters can discover patient identifiers known by the exchange partner and use them in subsequent queries or pushes (information submissions):</p> <ul style="list-style-type: none">• A patient discovery query obtains the common identifier to be used for the patient in a healthcare information exchange community.• The patient discovery query precedes the targeted query for a document list. In addition to obtaining the identifier necessary for performing the document query, a

Workflow	Description	Relevant Standards	Use Cases
			positive response to the query also indicates that the patient is known by the exchange partner.
Targeted Document Query and Retrieval	Queries for and retrieves documents related to a patient.	<ul style="list-style-type: none"> • XCA • XDS.b 	<p>Requesters can find out what documents are available for a given patient (also known as a query for a document list) and retrieve the documents.</p> <ul style="list-style-type: none"> • The targeted query is sent to one or more organizations that have information about the patient. A Patient Discovery can be used to determine which organizations have information about the patient. • A document list query is sent to one or more Healthcare Information Exchange (HIE) communities. The query obtains the list of available documents and binary objects, and the locations they can be retrieved from. A Patient Discovery can be used to determine the common identifier known to each community.
Targeted Push	Sends a set of documents for a patient as a result of an end-user action. Can receive an unsolicited set of documents related to a patient.	<ul style="list-style-type: none"> • XDR • Direct IHE XDR Edge Protocol • Direct SMTP Edge Protocol • XDS.b 	<p>An organization can send clinical information to an exchange partner, as in the following scenarios:</p> <ul style="list-style-type: none"> • A patient is referred to a specialist at another organization. A clinical summary is sent to the specialist's system. • A patient is discharged from the hospital, and their

Workflow	Description	Relevant Standards	Use Cases
			PCP is at organization. The hospital sends a clinical summary to the PCP's system.
Targeted Resource Search and Retrieval	Searches for and retrieves certain FHIR resources related to a patient.	<ul style="list-style-type: none"> FHIR R4 	<p>Requesters can search for and read certain FHIR resources to support the following use cases:</p> <ul style="list-style-type: none"> Search for details about patients' notes (Document.Search) and retrieve (Binary.Read) the notes' contents, related problems (Condition.Read), and the notes' author (Provenance.Read). Search for genomics (Observation.Search) associated with patients or patients' ordered results.

Supported Exchange Networks

Network	Relevant Standards	Description
eHealth Exchange Support	<ul style="list-style-type: none"> NHIN Patient Discovery NHIN Document List Query NHIN Document Retrieve Authorization Framework 	An organization can support exchanging interoperable health information over the internet.
Carequality	<ul style="list-style-type: none"> Query-Based Document Exchange Implementation Guide 	An organization can support exchanging interoperable health information over the internet.
TEFCA	<p>Epic Nexus supports:</p> <ul style="list-style-type: none"> QHIN Technical Framework TEFCA Transactions and Workflows 	An organization can support exchanging interoperable health information over the internet via the Epic Nexus Qualified Health Information Network.

Document Content

Supported Standard	Description	Documentation/Specification
HL7/IHE Consolidated CDA	<p>Content for the exchange of different types of patient summary documents.</p> <ul style="list-style-type: none"> Document Creator: Care Plan (V2), Continuity of Care Document (CCD) (V3), Discharge Summary (V3), Progress Note (V3) (Subsequent Evaluation Note), Referral Note (V2) Document Consumer: Valid C-CDA document profiles 	<ul style="list-style-type: none"> CDA® Release 2: IHE Health Story Consolidation, Release 1.1 – US Realm CDA® Release 2: Consolidated CDA Templates for Clinical Notes (US Realm) CCHIT Certification Requirements for Promoting Interoperability (formerly known as Meaningful Use)
HL7/ASTM CCD, HITSP C32 Implementation, C-CDA Unstructured Document CCHIT 2011 certification criteria constraints	<p>Content for the exchange of patient summary document.</p> <ul style="list-style-type: none"> Document Creator: CCD Document Consumer: Valid CDA documents 	<ul style="list-style-type: none"> HL7 CCD HITSP C32 v2.5 CCHIT Certification Requirements for Promoting Interoperability (formerly known as Meaningful Use)
Plain-text documents	Free-form content for the exchange of patient-related information.	N/A
Binary files	Reference-quality images in PNG, BMP, JPEG, TIFF formats and PDFs.	N/A

C-CDA Templates

Template	Template ID
Care Plan (V2)	urn:hl7ii:2.16.840.1.113883.10.20.22.1.15:2015-08-01
Continuity of Care Document (CCD) (V3)	urn:hl7ii:2.16.840.1.113883.10.20.22.1.2:2015-08-01
Discharge Summary (V3)	urn:hl7ii:2.16.840.1.113883.10.20.22.1.8:2015-08-01
Progress Note (V3) (Subsequent Evaluation Note)	urn:hl7ii:2.16.840.1.113883.10.20.22.1.9:2015-08-01
Referral Note (V2)	urn:hl7ii:2.16.840.1.113883.10.20.22.1.14:2015-08-01

Supported Standards

Supported Standard	Description	Roles	Documentation/Specifications
PDQV3 ITI-47: Patient Demographics Query HL7 V3	Patient identification query.	<ul style="list-style-type: none"> • Patient Demographics Consumer • Patient Demographics Supplier 	<ul style="list-style-type: none"> • IHE ITI TF Volume 1 Chapter 24 • IHE ITI TF Volume 2 Section 3.47
XCPD ITI-55: Cross Gateway Patient Discovery	Patient identification query.	<ul style="list-style-type: none"> • Initiating gateway • Responding gateway • Option: Asynchronous web services exchange 	<ul style="list-style-type: none"> • IHE ITI TF Volume 1 Chapter 27 • IHE ITI TF Volume 2 Section 3.55
XCPD ITI-56: Patient Location Query (PLQ)	Query for a list of communities that have health data for particular patients.	<ul style="list-style-type: none"> • Initiating gateway 	<ul style="list-style-type: none"> • IHE ITI TF Volume 2 Section 3.56 • Cross-Community Patient Discovery (XCPD) Health Data Locator and Revoke Option, Rev 3.1

Supported Standard	Description	Roles	Documentation/Specifications
XCPD ITI-107: Cross Gateway Revoke Correlation	Notify other organizations that specific patient correlations should no longer be retained.	<ul style="list-style-type: none"> Initiating Gateway Responding Gateway 	<ul style="list-style-type: none"> IHE ITI TF Volume 2 Section 3.107 Cross-Community Patient Discovery (XCPD) Health Data Locator and Revoke Option, Rev 3.1
XDS.b ITI-18: Registry Stored Query Transaction	Query for a list of documents related to a patient.	<ul style="list-style-type: none"> Document consumer Document registry (supports all query types and concepts required by the IHE XCA profile). Option: On-Demand documents 	<ul style="list-style-type: none"> IHE ITI TF Volume 1 Chapter 10 IHE ITI TF Volume 2 Section 3.18
XCA ITI-38: Cross Gateway Query	Query for a list of documents related to a patient.	<ul style="list-style-type: none"> Initiating gateway Responding gateway Option: On-Demand documents Option: Asynchronous web services exchange 	<ul style="list-style-type: none"> IHE ITI TF Volume 1 Chapter 18 IHE ITI TF Volume 2 Section 3.38
XDS.b ITI-43: Retrieve Document Set	Query to retrieve a document included in a previous Registry Stored Query response.	<ul style="list-style-type: none"> Document consumer Document repository Option: On-Demand documents 	<ul style="list-style-type: none"> IHE ITI TF Volume 1 Chapter 10 IHE ITI TF Volume 2 Section 3.43
XCA ITI-39: Cross Gateway Retrieve	Query to retrieve a document included in a previous Cross Gateway Query	<ul style="list-style-type: none"> Initiating gateway Responding gateway Option: On- 	<ul style="list-style-type: none"> IHE ITI TF Volume 1 Chapter 18 IHE ITI TF Volume 2 Section 3.39

Supported Standard	Description	Roles	Documentation/Specifications
	response.	<ul style="list-style-type: none"> Demand documents Option: Asynchronous web services exchange 	
XDS.b ITI-41: Provide and Register Document Set b	Provides a set of documents to a document repository or a recipient.	<ul style="list-style-type: none"> Document source 	<ul style="list-style-type: none"> IHE ITI TF Volume 1 Chapter 10 IHE ITI TF Volume 2 Section 3.41
IHE Cross-Enterprise Document Reliable Interchange (XDR)	Targeted push of a set of documents related to a patient. Based on XDS.b ITI-41.	<ul style="list-style-type: none"> Document source. Document recipient. Option: Metadata-limited document recipient Metadata-limited document source Option: Transmit Home Community Id 	<ul style="list-style-type: none"> IHE ITI TF Volume 1 Chapter 15 IHE ITI TF Volume 2 Section 3.41 IHE_ITI_Suppl_XCDR_Rev1-6_TI_2023-08-04
Direct Project	Targeted push using the Direct Project protocol using either SMTP/S/MIME XDM or SOAP-based XDR.	<ul style="list-style-type: none"> Sender Receiver 	<ul style="list-style-type: none"> Applicability Statement for Secure Health Transport 1.1 - 2012-07-10 Applicability Statement for Secure Health Transport 1.2 XDR and XDM for Direct Messaging Specification Rev 1.0 2011-03-09
eHealth Exchange NHIN Patient Discovery	Implementation guide for using XCPD within the eHealth Exchange.	<ul style="list-style-type: none"> Initiating gateway Responding gateway 	<ul style="list-style-type: none"> NHIN Patient Discovery Specification V 2.0 (Final Production) NHIN Patient Discovery Specification V 1.0 (Final Production)

Supported Standard	Description	Roles	Documentation/Specifications
eHealth Exchange NHIN Query for Documents	Implementation guide for using XCA within the eHealth Exchange.	<ul style="list-style-type: none"> Initiating gateway Responding gateway 	<ul style="list-style-type: none"> NHIN Query for Documents Specification V 3.0 (Final Production) NHIN Query for Documents Specification V 2.0 (Final Production)
eHealth Exchange NHIN Retrieve Documents	Implementation guide for using XCA within the eHealth Exchange.	<ul style="list-style-type: none"> Initiating gateway Responding gateway 	<ul style="list-style-type: none"> NHIN Retrieve Documents Specification V 3.0 (Final Production) NHIN Retrieve Documents Specification V 2.0 (Final Production)
eHealth Exchange Authorization Framework	Implementation guide for using SAML within the eHealth Exchange.	<ul style="list-style-type: none"> Initiating gateway Responding gateway 	<ul style="list-style-type: none"> Authorization Framework Specification V 3.0
Carequality	Implementation guide for using query-based document exchange with Carequality.	<ul style="list-style-type: none"> Initiating gateway Responding gateway 	<ul style="list-style-type: none"> Query-Based Document Exchange Implementation Guide
FHIR R4	HL7 FHIR standard based on FHIR APIs. Supports particular features over Certain resources can be requested using Care Everywhere.	<ul style="list-style-type: none"> Requester Responder 	<ul style="list-style-type: none"> US Core Epic on FHIR selected resources: <ul style="list-style-type: none"> Binary.Read DocumentReference.Search Provenance.Read Observation.Search Condition.Read
SMART Backend Services	Profile for authorized clients to gain access to resources from a	<ul style="list-style-type: none"> Requester Responder 	<ul style="list-style-type: none"> Backend Services - SMART App Launch v2.2.0

Supported Standard	Description	Roles	Documentation/Specifications
	FHIR server.		

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