



Record Locator & Exchange IHE Vendor

CONTENTS

1. Record Locator & Exchange IHE	3
2. Integration & Production	6
3. Messages Overview	8
4. Element Details	15
5. Message Examples	33
6. Error Scenarios and Conditions	105
7. Disclaimers	109
8. Document Change Log	110

1. Record Locator & Exchange IHE

Product Overview

Note: The Record Locator & Exchange product is based on the Integrating the Healthcare Enterprise Technical Framework.

Surescripts RLE allows requesting locations to electronically discover potential locations of patient records within their source hospital or vendor systems and provides support to retrieve those records using Integrating the Healthcare Enterprise (IHE) standard transactions.

The Surescripts implementation of RLE provides requesting locations access to the following sources of information:

1. Surescripts produces an on-demand document known as the Surescripts Location Summary. It is formatted following the Health Level 7 (HL7) standard of a Clinical Document Architecture (CDA). This document may be retrieved using standard IHE transactions sent to RLE.

Using network transactions to identify healthcare locations where patients have previously received care, RLE will provide the requesting healthcare provider with a CDA containing the names and contact information of the providers/locations where the patient has been seen. This information may then be used to contact those locations to obtain the patient's records.

2. When queried, RLE returns information required to retrieve patient documents from other RLE enabled vendor systems.

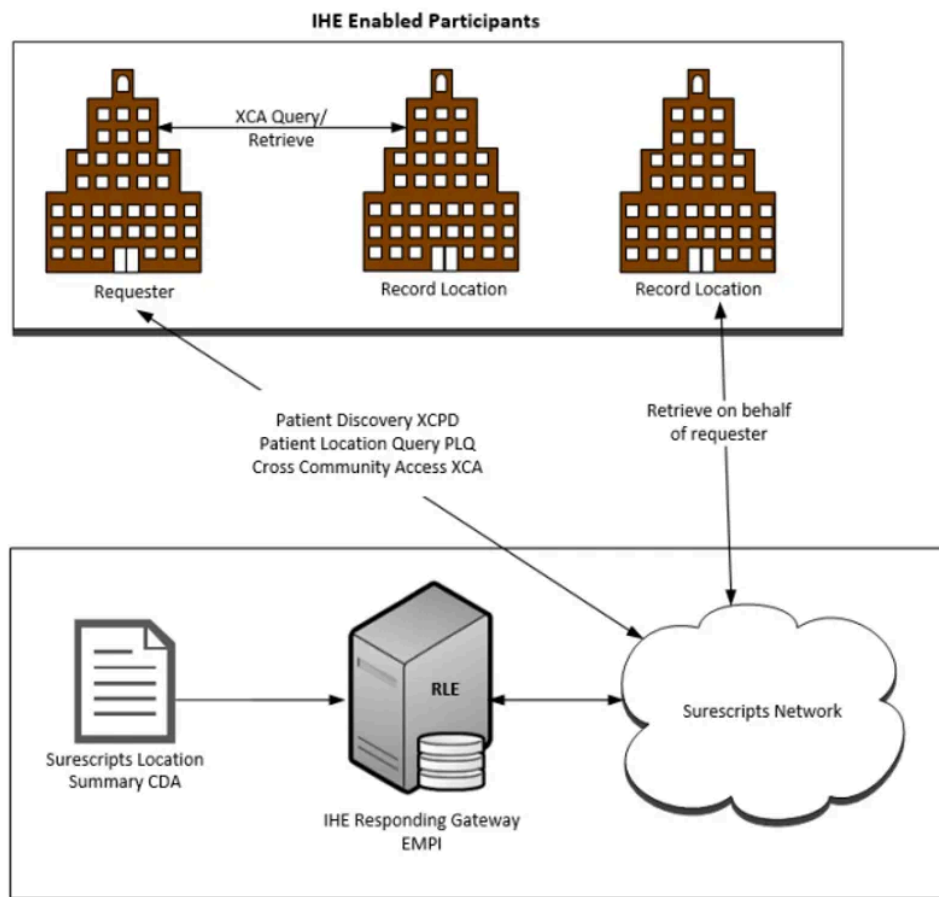
Option 1 – Records may be requested through RLE. Exchange will be facilitated by RLE using record locator transactions to query and retrieve clinical documents from discovered responding locations on behalf of the requesting location.

Option 2 – RLE provides endpoint information (Home Community ID) for other IHE responding locations. The requesting location will use existing, peer-to-peer connections to query and retrieve directly from the IHE enabled responding location.

Responding locations will provide access to patient rosters by sending one of the following: (1) an Admit, Discharge, and Transfer (ADT) data feed or, (2) means to accept Cross-Community Patient Discovery (XCPD) queries from Surescripts. Responding locations also have the option to enroll patients for RLE services or patient notifications via an ADT message and then send patient activity updates via an ADT data feed. For more information, see the Record Locator & Exchange ADT Implementation Guide.

Responding locations will receive requests for records from Surescripts on behalf of an RLE IHE enabled requester. IHE standard transactions will be sent by Surescripts to query and retrieve patient clinical documents from the responding location.

Responding locations may also receive IHE standard transactions directly from requesting locations to query and retrieve patient clinical documents, if preexisting peer-to-peer connections are established.



About This Guide

This guide was created to assist vendors in developing and transferring messages needed to electronically query locations of patient records from the Surescripts RLE and identify patient records within their source healthcare facilities or vendor systems and facilitate the exchange of records found.

The audience for this document includes any customer responsible for developing a system interface for these RLE messages.

This guide is meant to support, integrate and further clarify the IHE and HL7 guides and best practices as used when transacting through the Surescripts network. It does not reproduce the base standards in their entirety. When developing, this guide should be used along with additional documentation referenced and applicable customary coding standards.

Document References

Please reference the following documents when reading this guide:

Surescripts provided materials

Record Locator & Exchange ADT Implementation Guide

Connectivity and Authentication Implementation Guide

Directories Implementation Guide

Additional required external materials to be obtained by the customer

Note: These external materials contain additional obligations that must be met by the customer in order to access Record Locator & Exchange

Carequality Interoperability Framework documentation: <https://carequality.org/resources/>

- Carequality Connection (CC) Terms (latest version): This document contains the standard terms that customers are required to make legally binding on their members, customers, or participants who engage in exchange activities through the Carequality Framework and are listed in the Carequality Directory.
- Query-Based Document Exchange Implementation Guide (latest version): The initial Carequality Use Case is Query-Based Document Exchange.

HL7 Implementation Guide for CDA® Release 2

Integrating the Healthcare Enterprise IT Infrastructure Technical Framework

2. Integration & Production

Integration Process

When a customer begins integrating a Surescripts product into their application(s), they will be provided access to all the Surescripts documentation pertaining to the product being implemented. In addition, customers will be provided access to the staging environment to design, develop and test the product integration within their application.

Note: The time frame of the project can vary depending on the customer's resource allocation for the project.

Meeting Requirements

During Integration, customers will ensure their system has met all product requirements. The message validation testing will focus on message format, application workflow and display in accordance with Surescripts documentation. Upon successful completion of message validation and, when applicable, other pre-production network requirements (e.g., Identity Proofing, Attestations, DEA audit), customers will be enabled in production.

For requirements, consider the following:

- To ensure high-quality transactions, Surescripts applies additional business rules above and beyond the schema defined requirements that will cause a message to be successful or rejected.
- Surescripts test cases do not cover all possible scenarios in production. Customers are responsible for testing any other applicable scenarios specific to their production environment.
- In accordance with the customer's legal agreement with Surescripts, each customer is responsible for ensuring compliance with all applicable laws including, but not limited to, local and state laws/regulations where doing business.

Transition to Production

Once message validation testing is complete and the contract is approved, the customer is ready to move into production.

Surescripts will configure the production connection and ensure successful operations with the customer.

Before moving to production, Surescripts Account Management will collaborate with the customer and internal Surescripts teams to review the following items:

- **Production support contacts**
To be captured in an Escalation Matrix—a tool that specifies how Surescripts should contact customers for support needs, including case routing and escalation paths.
- **Support process and training**
- **Support availability**

Note: The Escalation Matrix for use by Surescripts customers can be found in the *Network Operations Guide*.

Surescripts Terminology Usage

For terminology usage throughout this guide, consider the following:

Term	Term usage
must	Requirements that are enforced as part of the production code or Surescripts business rules.
should	Used for guidance and best practices to produce superior results and enhance electronic messaging. Best practices can also be found in the Best Practice sections. Customers are encouraged, but not required, to meet best practices in order to be certified on the Surescripts network.

Timeouts

For timeouts, consider the following:

- When sending a message to Surescripts the timeout period for the responder is the following for these messages:
 - XCPD ITI-55 (Cross Community Patient Discovery) – 30 seconds
 - XCA Query ITI – 38 (Cross-Community Access) – 120 seconds
 - XCA Retrieve ITI – 39 (Cross-Community Retrieve) – 300 seconds

Connectivity HTTPS

Refer to the Mutual Transport Layer Security (mTLS) information in the Surescripts Connectivity & Authentication Implementation Guide.

Note: For RLE, the use of Carequality issued client certificates is preferred, but not required. Alternatively, Surescripts will issue a certificate, if needed.

3. Messages Overview

Responsibilities of an IHE Enabled Vendor

As previously described, the primary responsibility of an RLE requesting location is to submit record requests to the Surescripts record locator service (RLE).

In addition, IHE enabled requesting locations are also asked to be IHE enabled responding locations. This involves the following responsibilities:

1. Provide Surescripts access to patient rosters. This can be done through the following methods:
 - a. Updating the Surescripts Master Patient Index (MPI) through an ADT data feed. Reference the Record Locator & Exchange ADT Data Implementation Guide for more information.
 - b. Responding to XCPD Requests from Surescripts.
2. Optional: Send patient activity to Surescripts via an ADT data feed.
3. Optional: Enroll patients for notifications by sending an ADT message.
4. Respond to XCA Query and Retrieve requests from Surescripts and other RLE customers.

Note: Certification to AddOrganization and UpdateOrganization Directory messages is required for IHE-enabled vendors.

Message Descriptions

XCPD ITI-55 (Cross Community Patient Discovery)

The IHE XCPD Request/Response supports the means to locate communities that hold patient records and the translation of patient identifiers across communities holding the same patient's data. The request is sent from the requesting location to the Surescripts RLE to discover if a patient matching the demographics sent from the requester is known. The response sent from Surescripts to the requesting location indicates if there was a patient match or no match.

PLQ ITI-56 (Patient Location Query)

The optional IHE PLQ Request/Response queries for a list of communities that may have records for a patient referenced by a patient identifier. The request message is sent from the requesting location after receipt of an XCPD Response from Surescripts indicating a patient match. The response sent from Surescripts to the requesting location contains the patient's record locations.

XCA Query ITI-38 (Cross-Community Access)

The IHE XCA Query Request/Response supports the means to request retrieval of the list of available documents from responding locations.

XCA Retrieve ITI-39 (Cross-Community Retrieve)

The IHE XCA Retrieve Request/Response supports the means to obtain documents from RLE enabled responding locations.

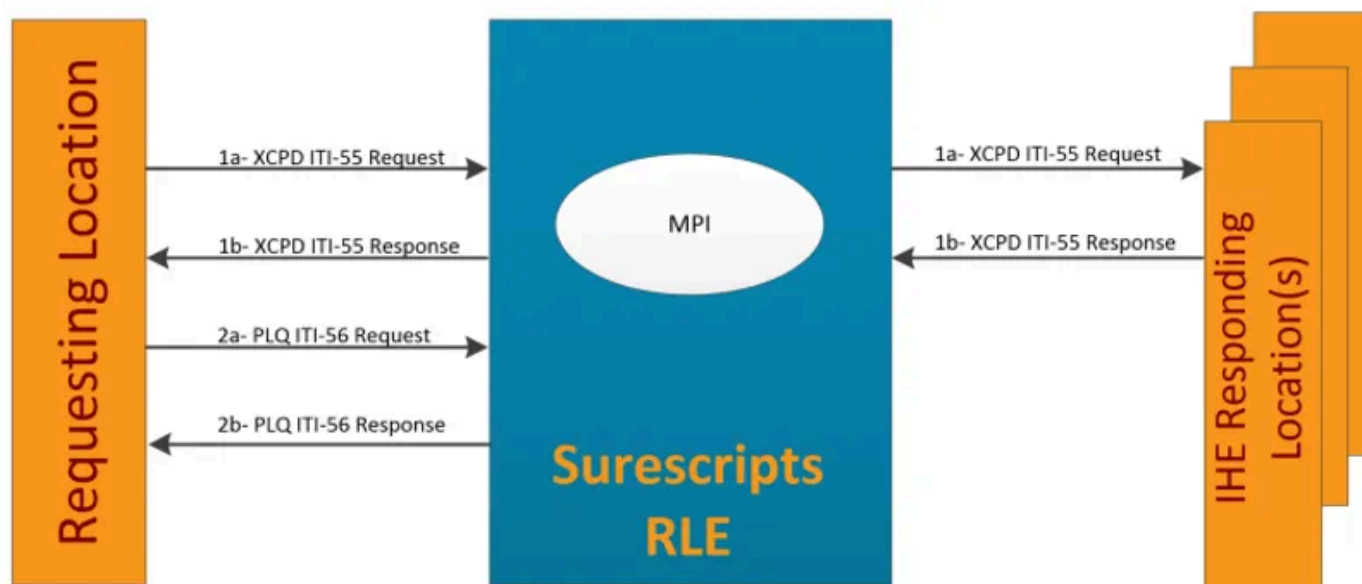
Surescripts Location Summary CDA

Surescripts Location Summary CDA contains information on locations where a patient has been seen based on information gathered from the Surescripts network.

Per IHE standards, the Location Summary CDA is an on-demand document. Metadata for the document will be returned in response to an XCA Query transaction. The actual CDA will be returned in response to an XCA Retrieve for the Location Summary CDA Unique Document ID. As an on-demand document, the content of the Location Summary CDA will reflect the most recent data available as of the date and time the XCA Retrieve transaction is processed.

RLE IHE Message Flow

Discover the Patient (XCPD) & Discover Responding Patient Locations (PLQ)



Discover the Patient

1a) The requesting location sends an XCPD Message to query the Surescripts RLE and discover if a patient matching the demographics sent is known.

1b) RLE responds with a patient match or no match.

Discover Responding Record Locations (optional)

2a) The requesting location sends a PLQ Message to retrieve from the RLE a list of locations that have records for the patient.

2b) The RLE responds with record locations identified by home community and patient identification.

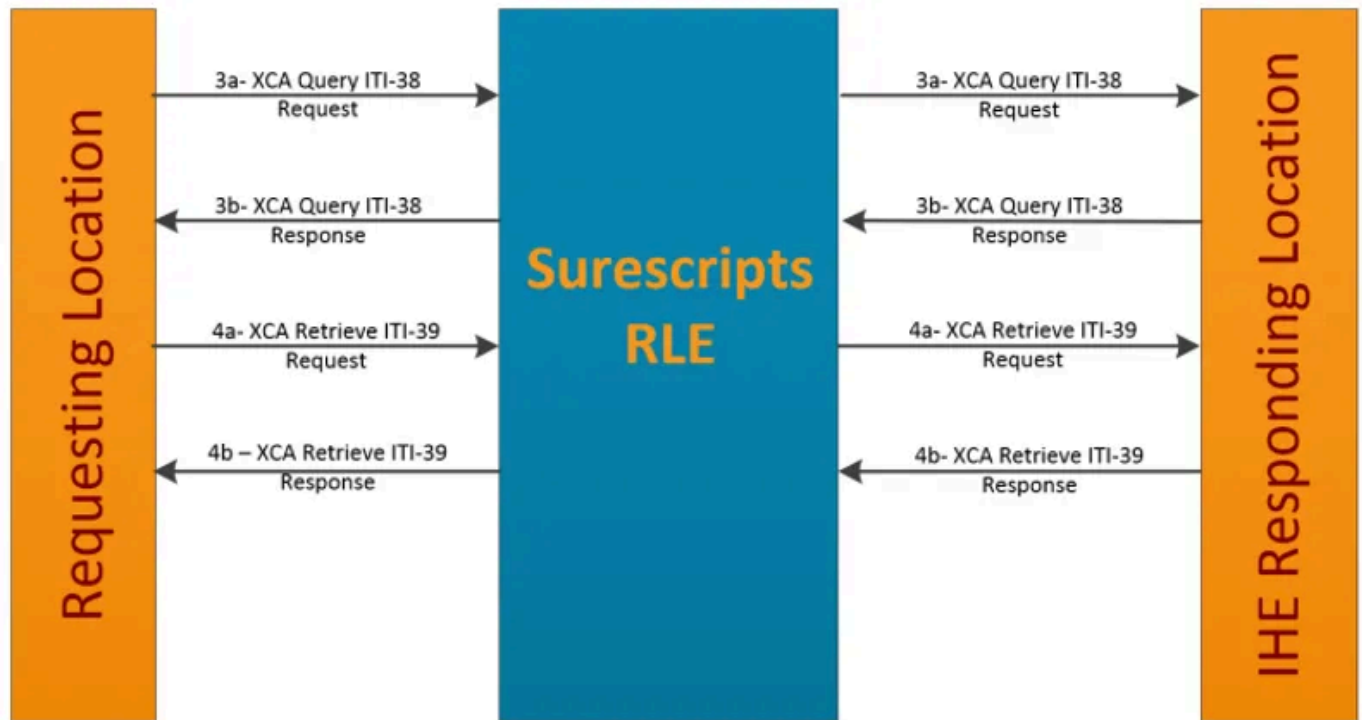
Query and Obtain Patient Records Message Flow when PLQ is used to Discover Responding Locations

RLE does not maintain a Clinical Document Repository. Documents are retrieved from the source.

There are three possible paths for retrieving documents from the responding locations including the following:

- Obtain patient records from RLE enabled vendor through Surescripts
- Obtain Location Summary Document from Surescripts
- Obtain patient records directly from IHE enabled vendor

Scenario 1: Obtain Patient Records from IHE Enabled Vendor through Surescripts



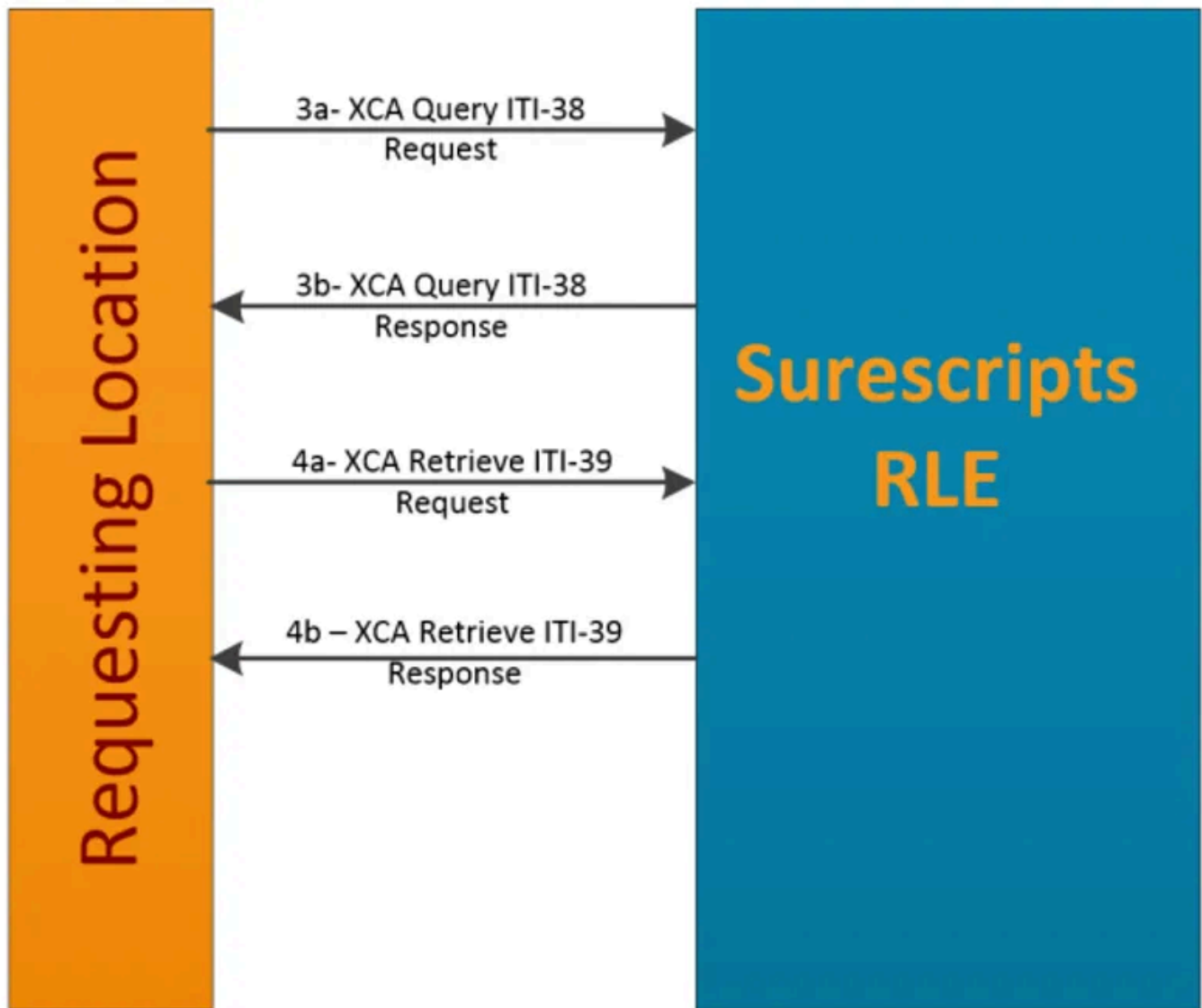
3a) An XCA Query Request is sent to Surescripts requesting patient records from the record location. The request is forwarded to the responding location(s).

3b) The responding location sends an XCA Query Response to Surescripts, which is forwarded to the requesting location.

4a) An XCA Retrieve Request is sent to Surescripts requesting retrieval of the patient records. The request is forwarded to the responding location.

4b) The responding location sends the patient records to Surescripts in an XCA Retrieve Response, which is forwarded to the requesting location.

Scenario 2: Obtain Location Summary Document from Surescripts



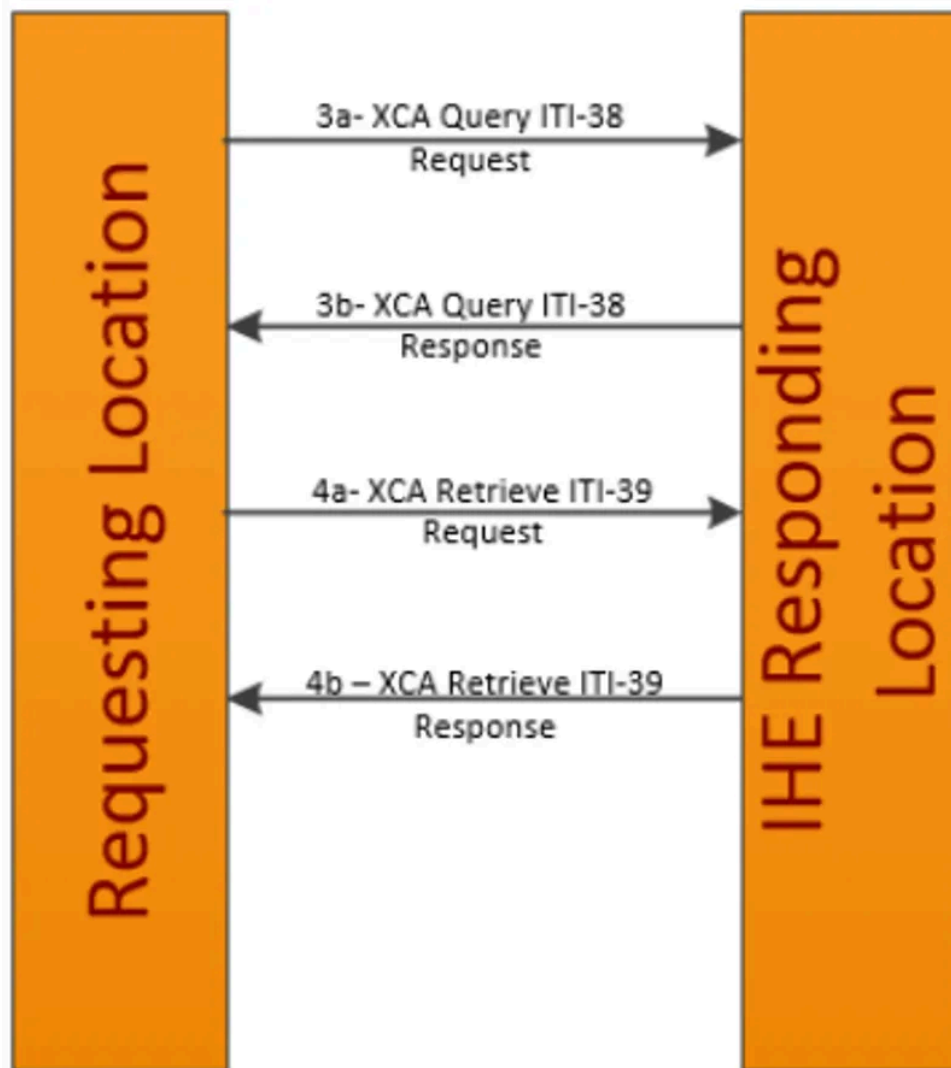
3a) An XCA Query Request is sent to Surescripts.

3b) Surescripts sends an XCA Query Response with the Document ID and metadata of the dynamically generated Location Summary Document.

4a) The requesting location sends an XCA Retrieve Request for the patient record locations.

4b) Surescripts sends the Location Summary Document in the XCA Retrieve Response.

Scenario 3: Obtain Patient Records Directly from IHE Enabled Vendor



3a) An XCA Query Request is sent directly to the IHE enabled responding location requesting patient records.

3b) The responding location sends an XCA Query Response to the requesting location.

4a) An XCA Retrieve Request is sent to obtain the records from the IHE responding location.

4b) The responding location sends the patient records in the XCA Retrieve Response.

Query and Obtain Patient Records Message Flow without PLQ

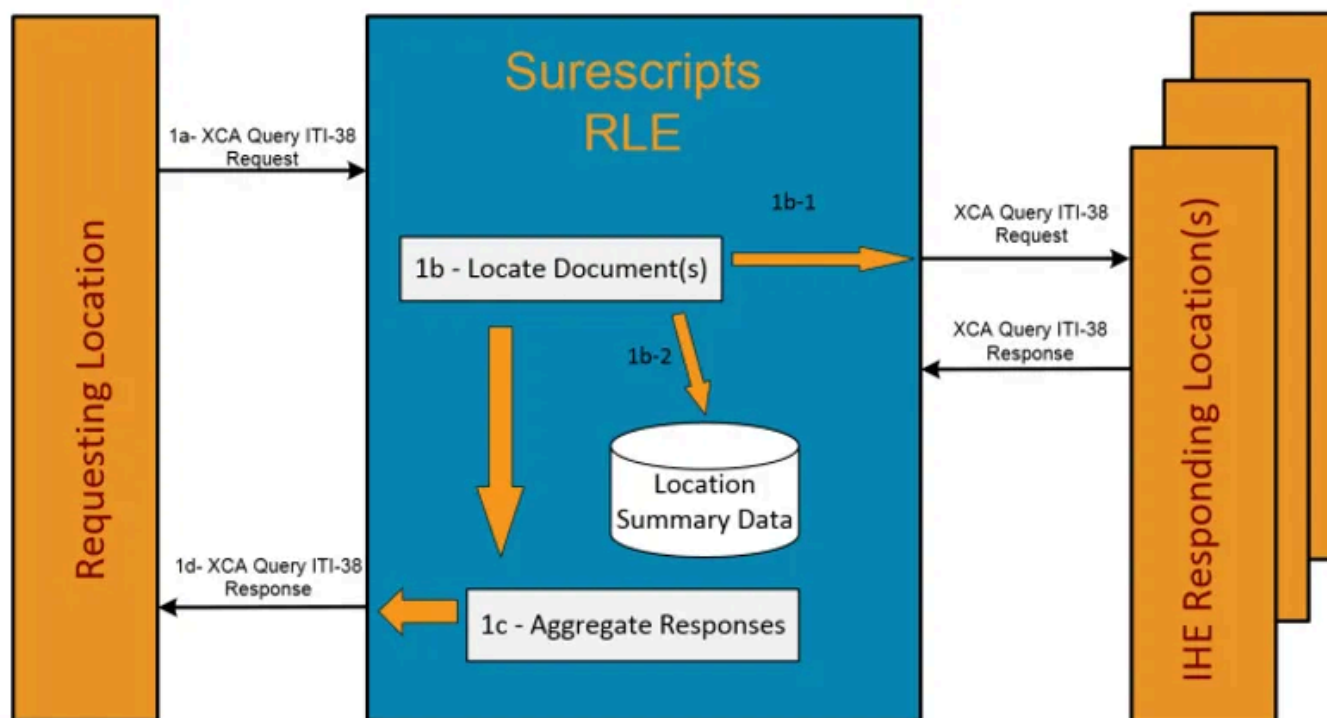
RLE does not maintain a Clinical Document Repository. Documents are retrieved from the source.

For systems that do not utilize PLQ, Surescripts is able to provide the detail of documents available from multiple sources using customized logic when processing an XCA Query request and response. This customized version allows systems to submit an XCA Query to Surescripts using the Surescripts assigned patient identifier returned in the XCPD response and receive information on documents available from the following sources:

- Patient records from IHE enabled vendors
- Location Summary Document from Surescripts

Scenario: Obtain documents from any responder using a single XCA Query followed by XCA Retrieve(s)

Step 1 - XCA Query



1a) An XCA Query Request is sent to Surescripts.

1b) Surescripts requests metadata from all possible responders:

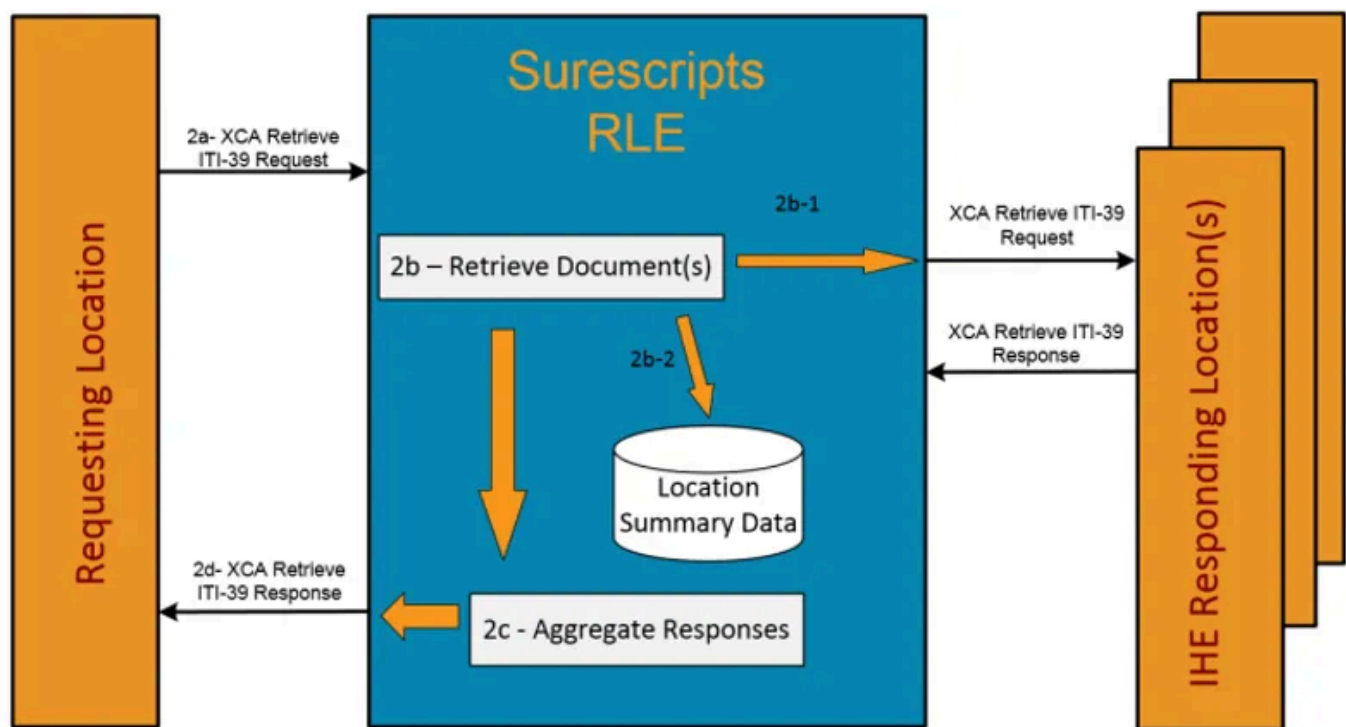
1b-1) An XCA Query is sent to available IHE responders.

1b-2) A search is issued for Location Summary data.

1c) Surescripts aggregates responses and builds an XCA Query Response containing the combined document IDs with metadata for all available documents.

1d) Surescripts sends the XCA Query Response to the requester.

Step 2 - XCA Retrieve



2a) The requesting location sends an XCA Retrieve Request for the desired documents.

Note: It is recommended that each document be requested in a separate XCA Retrieve Request. This avoids any issue with a slow responder delaying return of all requested documents.

2b) Surescripts requests documents from all requested responders:

2b-1) An XCA Retrieve is sent to IHE responders.

2b-2) A Location Summary is generated.

Note: Surescripts limits the lookback period for XCA Retrieve Requests to 30 days from the last XCA Query Request. A best practice is to send an XCPD Request, XCA Query Request, and XCA Retrieve Request sequentially within 30 days.

2c) Surescripts aggregates responses and builds an XCA Retrieve Response containing the requested documents.

2d) Surescripts sends the XCA Retrieve Response to the requester.

Note: Documents from IHE Enabled Vendors may be retrieved directly using peer-to-peer connectivity, when available.

4. Element Details

Requirement Designation

Element Attributes

Code	Description
mandatory	The element must be used per the specification (e.g., XML schema validation).
conditional	The element must be used per the conditions specified.

The element tables include only those elements specifically utilized or supplied by RLE. It is assumed customers will be familiar with the IHE standard. All data available should be included in every transaction for use by RLE, even when not specifically listed in these tables.

XCPD ITI-55 Request Message

Element	Code	Comment
Header Element		
Header	mandatory	
MessageID	conditional	Message ID of the request. Highly recommended, preferably a globally unique ID. Must be 255 characters or less. Example: urn:uuid:5466c2e4-h5er-85ed-448e-432ed6t315e
Attribute/@Name="urn:oasis:names:tc:xspa:1.0:subject:organization"/	mandatory	The text value for the name of the organization. Note: This is located in the SAML 2.0 header. Example: Originator Health Clinic
AttributeValue		
Attribute/@Name="urn:oasis:names:tc:xspa:1.0:subject:organization-id"/	mandatory	The unique ID used by the organization, the organization's Home Community ID (OID). Note: This is located in the SAML 2.0 header. Example: urn:oid:3.2.132.132132.1.32.13.2.1.3.321321.123
AttributeValue		
PurposeOfUse	mandatory	Specifies the purpose or reason this patient data is being requested. Values are defined by the NHIN PurposeOfUse. Currently, RLE supports TREATMENT, COVERAGE, OPERATIONS, PAYMENT, REQUEST, and PUBLIC HEALTH. More values will be supported in future releases. Link to NHIN specification: https://sequoiaproject.org/wp-content/uploads/2014/11/nhin-authorization-framework-production-specification-v3.0.pdf

Element	Code	Comment
		Example: Name="urn:oasis:names:tc:xspa:1.0:subject: purposeofuse" codeSystem="2.16.840.1.113883.3.18.7.1" code="TREATMENT"
Body Element		
Body	mandatory	
livingSubject AdministrativeGender/ value/@code	conditional	Gender Recommended to provide if available (M, F, UN) Warning: Values other than M, F, and UN will cause the message to be rejected by RLE. Example: M
livingSubject BirthTime/ value/@value	mandatory	Birth date Use YYYYMMDD format Example: 19560804
livingSubject Name/ value/given	mandatory	Given name (first name) Example: Adam
livingSubject Name/ value/given	conditional	Second given name (middle name) Example: John Note: Populate, if possible. Highly recommended to send to aid in patient matching.

Element	Code	Comment
livingSubject Name/ value/family	mandatory	Family name (last name) Example: Everyman
patientAddress/ value/ streetAddressLine	conditional	Patient address line 1 Example: 123 Any Street Note: Populate, if possible. Highly recommended to send to aid in patient matching.
patientAddress/ value/ streetAddressLine	conditional	Patient address line 2 Example: Apt 123
patientAddress/ value/ city	conditional	Patient city Example: Springfield Note: Populate, if possible. Highly recommended to send to aid in patient matching.
patientAddress/ value/ state	conditional	Patient address state Example: IL Note: Populate, if possible. Highly recommended to send to aid in patient matching.
patientAddress/ value/ postalCode	mandatory	Patient postal code Example: 12345 Note: RLE only supports US postal codes.

XCPD ITI-55 Response Message

Element	Code	Comment
Header Element		
Header	mandatory	
MessageID	conditional	Message ID of the response. Highly recommended, preferably a globally unique ID. Must be 255 characters or less. Example: urn:uuid:89d2e1e0-42e3-42c8-a507-221196d7bef6 Note: Populate, if possible. Highly recommended to send to aid in patient matching.
RelatesTo	conditional	Message ID of the original request. Example: urn:uuid:5466c2e4-h5er-85ed-448e-432ed6t315e
Body Element		
Acknowledgement/ typeCode	mandatory	Indicator of whether a patient match was found. Examples: AA = Application Accept. This is returned when the message was successfully processed. AE = Application Error. This is returned when the message was unable to be processed.
query/ queryResponseCode	mandatory	Indicator of the success of the transaction. Examples: OK = Data Found, No Errors NF = No Patient Match Found, No Errors AE = Application Error
subject/ registrationEvent/ subject1/ patient	conditional	Contains patient demographics including patient ID, patient name, and patient address for the matching patient within RLE. Included when a patient match is found.
queryByParameter/ parameterList	mandatory	Echo back of the incoming request parameters.

PLQ ITI-56 Request Message

Element	Code	Comment
Header Element		
Header	mandatory	
MessageID	conditional	Message ID of the request. Highly recommended, preferably a globally unique ID. Must be 255 characters or less. Example: urn:uuid:52e5fg51-7ed4-dg2e-7548-2e555e2s6fd Note: Populate, if possible. Highly recommended to send to aid in patient matching.
Attribute/ @Name= "urn:oasis:names:tc:xspa:1.0:subject:organization"/ Attribute Value	mandatory	The text value for the name of the organization. Example: Originator Health Clinic
Attribute/ @Name= "urn:oasis:names:tc:xspa:1.0:subject:organization-id"/ Attribute Value	mandatory	The unique ID used by the organization, the organization's Home Community ID (OID). Note: This is located in the SAML 2.0 header. Example: urn:oid:3.2.132.132132.1.32.13.2.1.3.321321.123
Purpose	mandatory	Specifies the purpose or reason this patient data is being requested. Values are defined by the NHIN PurposeOfUse. Currently, RLE supports TREATMENT, COVERAGE, OPERATIONS, PAYMENT, REQUEST, and

Element	Code	Comment
OfUse		PUBLIC HEALTH. More values will be supported in future releases. Link to NHIN specification: https://sequoiaproject.org/wp-content/uploads/2014/11/nhin-authorization-framework-production-specification-v3.0.pdf Example: Name="urn:oasis:names:tc:xspa:1.0:subject:purposeofuse" codeSystem="2.16.840.1.113883.3.18.7.1" code="TREATMENT"
Body Element		
Body	mandatory	
PatientLocation QueryRequest/ RequestedPatientID/ @root	mandatory	The assigning authority of the patient ID being requested. Example: 2.16.840.1.113883.3.2054.2.1
PatientLocation QueryRequest/ RequestedPatientID/ @extension	mandatory	The patient ID extension for the patient being requested. Example: 6509781

PLQ ITI-56 Response Message

Element	Code	Comment
Header Element		
Header	mandatory	
MessageID	conditional	Message ID of this response. Highly recommended, preferably a globally unique ID. Must be 255 characters or less. Example: urn:uuid:8f780679-e5b8-4769-aa99-ca21582aa6a3 Note: Populate, if possible. Highly recommended to send to aid in patient matching.
RelatesTo	conditional	Message ID of the original request. Example: urn:uuid:52e5fg51-7ed4-dg2e-7548-2e555e2s6fd
Body Element		
Body	mandatory	Note: When locations exist, there could be one or multiple Patient Location Response entries contained in the response. Example of multiple Patient Location Response entries: <pre><PatientLocationResponse> <HomeCommunityId>urn:oid:1.3.6.1.4.1.21367.13.70.82</HomeCommunityId> <CorrespondingPatientId extension="280024" root="1.2872.1.1" /> <RequestedPatientId extension="6509781" root="2.16.840.1.113883.3.2054.2.1" /> </PatientLocationResponse> <PatientLocationResponse> <HomeCommunityId>urn:oid:2.16.840.1.113883.3.2054.2.1</HomeCommunityId> <CorrespondingPatientId extension="B320025" root="2.16.840.1.113883.3.333" /> <RequestedPatientId extension="6509781" root="2.16.840.1.113883.3.2054.2.1" /> </PatientLocationResponse> <PatientLocationResponse> <HomeCommunityId>urn:oid:2.16.840.1.113883.3.2054.2.1</HomeCommunityId> <CorrespondingPatientId extension="6509781" root="2.16.840.1.113883.3.2054.2.1" /> <RequestedPatientId extension="6509781" root="2.16.840.1.113883.3.2054.2.1" /> </PatientLocationResponse> </PatientLocationQueryResponse></pre>
PatientLocation QueryResponse/ PatientLocationResponse/ HomeCommunityId	mandatory	The Home Community ID associated with the patient ID root and extension. Example: urn:oid: 1.3.6.1.4.1.21367.13.70.82
PatientLocation QueryResponse/ PatientLocationResponse/ CorrespondingPatient	mandatory	The patient ID extension for the patient at the related home community. Example: 280024

Element	Code	Comment
Id/ @extension		
PatientLocation QueryResponse/ PatientLocationRespo nse/ CorrespondingPatient Id/ @root	mandato ry	The assigning authority of the patient ID at the related home community. Example: 2.16.840.1.113883.3.333

XCA Query ITI-38 Request Message

Element	Code	Comment
Header Element		
Header	mandatory	
MessageID	conditional	Message ID of the request. Highly recommended, preferably a globally unique ID. Must be 255 characters or less. Example: urn:uuid:8dgs25ed-he8s-rtg5-wed1-26we15fs7ts Note: Populate, if possible. Highly recommended to send to aid in patient matching.
Attribute/ @Name= "urn:oasis: :names:tc: xsa:1.0:su bject: organizati on" /Attribute Value	mandatory	The text value for the name of the organization. Example: Originator Health Clinic
Attribute/ @Name= "urn:oasis: :names:tc: xspa1.0:su bject: organizati on-id" /Attribute Value	mandatory	The unique ID used by the organization, the organization's Home Community ID (OID). Note: This is located in the SAML 2.0 header. Example: urn:oid:3.2.132.132132.1.32.13.2.1.3.321321.123
PurposeOfUse	mandatory	Specifies the purpose or reason this patient data is being requested. Values are defined by the NHIN PurposeOfUse. Currently, RLE supports TREATMENT, COVERAGE, OPERATIONS, PAYMENT, REQUEST, and PUBLIC HEALTH. More values will be supported in future releases.

Element	Code	Comment
		Link to NHIN specification: https://sequoiaproject.org/wp-content/uploads/2014/11/nhin-authorization-framework-production-specification-v3.0.pdf Example: Name="urn:oasis:names:tc:xspa:1.0:subject:purposeofuse" codeSystem="2.16.840.1.113883.3.18.7.1" code="TREATMENT"
Body Element		
Body	mandatory	
AdhocQueryRequest	mandatory	
Slot name="XDSDocumentEntryPatientId"/ValueList/Value	mandatory	Patient of interest. Patient ID formatted per HL7. Example: 6509781^^^&2.16.840.1.113883.3.2054.2.1 In the example, 6509781 is the patient ID and 2.16.840.1.113883.3.2054.2.1 is the Assigning Authority.
Slot name="XDSDocumentEntryStatus"/ValueList/Value	mandatory	Example: urn:oasis:names:tc:ebxml-regrep:StatusType:Approved
Additional document	conditional	RLE supports receipt of additional document metadata parameters per the IHE standard. See IHE documentation for a complete list. Note: RLE respects metadata parameters when determining whether to include information on the Surescripts Location Summary CDA in the XCA Query Response.

Element	Code	Comment
metadata attributes		In addition, RLE will pass all input on to additional responders and return all responses from those sources to the original requester. Each responding system will handle filtering of documents included in the request within the responding system.

XCA Query ITI-38 Response Message

The response will include metadata for the Location Summary, if applicable.

Element	Code	Comment
Header Element		
Header	mandatory	
MessageID	mandatory	Message ID of the response. Highly recommended, preferably a globally unique ID. Must be 255 characters or less. Example: urn:uuid:34268e47-fdf5-41a6-ba33-82133c465248
RelatesTo	conditional	Message ID of the original request. Example: urn:uuid:8dgs25ed-he8s-rtg5-wed1-26we15fs7ts
Body Element		
Body	mandatory	
AdhocQueryResponse	mandatory	
TotalResultCount	mandatory	Count of the number of documents available for the requested patient. Example: totalResultCount="1" Example when no documents are found: totalResultCount="0"
Status	mandatory	Indicates success or failure of the processing of the request. Example: urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success Example indicating an error occurred in processing: urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Failure See the example error message below for more information.
RegistryObjectList/ ExtrinsicObject	conditional	When available, document metadata for one or more documents from RLE represented repositories will be returned. Metadata for each document is included as an ExtrinsicObject in the RegistryObjectList.
contentType	mandatory	Mime type of the document. Example: text/xml
status	mandatory	Status of the document Example: urn:oasis:names:tc:ebxml-regrep:StatusType:Approved

Element	Code	Comment
home	mandatory	Globally unique identifier for the community where this document may be retrieved. Example: urn:oid:2.16.840.1.113883.3.2054.2.1
repository UniqueId	mandatory	Globally unique identifier of the repository where this document may be found. Example: 2.16.840.1.113883.3.2054.2.1
sourcePatientId	conditional	Patient identifier for the subject of care. Formatted per HL7. Field will be populated if the sourcePatientId was returned by the responder. Be sure to note, though, that not all responders (ex: responders who use FHIR messaging) return a value that is equivalent to the sourcePatientId. Example: 6509781^^^&2.16.840.1.113883.3.2054.2.1&ISO In the Example, 6509781 is the patient ID and 2.16.840.1.113883.3.2054.2.1 is the Assigning Authority.
URI	mandatory	File containing the document. Example: LocationSummary.xml
Name	mandatory	The name of this document. Example: Surescripts Location Summary
authorInstitution	mandatory	Represents the entity that authored the document. authorInstitution is critical to several receiving application systems. It is displayed to users as the organization or provider with available documents to allow the user to determine whether or not to request these records. For responders that represent multiple organizations within the same home community, this element is required. Example 1: Surescripts^^^^^^^2.16.840.1.113883.3.2054.2.1 Example 2: Miller Orthopedics
classCode	mandatory	The code specifying the particular kind of document. Class code consists of a code, coding scheme, and name. Location Summary uses Loinc code 56816-2. Loinc coding scheme is specified by the OID value 2.16.840.1.113883.6.1.
code	mandatory	Example: 56816-2
codingScheme	mandatory	Example: 2.16.840.1.113883.6.1
Name	mandatory	Example: Location Summary
formatCode	mandatory	Code globally uniquely specifying the format of the document. Combined with typeCode, it allows consumers to know how to process the document. Format code consists of a code, coding scheme and name. http://wiki.ihe.net/index.php?title=IHE_Format_Codes

Element	Code	Comment
Code	mandatory	Example: urn:ihe:pcc:xphr:2007
codingScheme	mandatory	Example: 1.3.6.1.4.1.19376.1.2.3
Name	mandatory	Example: Exchange of Personal Health Records
typeCode	mandatory	Type code is set to the same values as class code.
code	mandatory	Example: 56816-2
codingScheme	mandatory	Example: 2.16.840.1.113883.6.1
Name	mandatory	Example: Location Summary
XDSDocumentEntry. uniqueId	mandatory	Globally unique identifier for this document. Example: 2.16.840.1.113883.3.2054.2.1.1503551
XDSDocumentEntry. patientId	mandatory	The person represented as the subject of care of the document. Root / assigning authority for Surescripts RLE is: 2.16.840.1.113883.3.2054.2.1 Example: 6509781^^^&2.16.840.1.113883.3.2054.2.1&ISO In the Example, 6509781 is the patient ID and 2.16.840.1.113883.3.2054.2.1 is the Assigning Authority.

XCA Retrieve ITI-39 Request Message

Element	Cod e	Comment
Header Element		
Header	man dato ry	
Message ID	cond ition al	Message ID of the request. Highly recommended, preferably a globally unique ID. Must be 255 characters or less. Example: urn:uuid:ew8d2w81-95we-h2w8-71e5-25w5f1sd6f1 Note: Populate, if possible. Highly recommended to send to aid in patient matching.
Attribute /@Name = "urn:oasi s:names: tc: xspa:1.0: subject: organiza tion" /Attribut eValue	man dato ry	The text value for the name of the organization. Example: Originator Health Clinic
Attribute /@Name = "urn:oasi s:names: tc: xspa:1.0: subject: organiza tion-id"	man dato ry	The unique ID used by the organization, the organization's home community ID (OID). Note: This is located in the SAML 2.0 header. Example: urn:oid:3.2.132.132132.1.32.13.2.1.3.321321.123

Element	Code	Comment
/AttributeValue		
PurposeOfUse	mandatory	Updated comment to the following: Specifies the purpose or reason this patient data is being requested. Values are defined by the NHIN PurposeOfUse. Currently, RLE supports TREATMENT, COVERAGE, OPERATIONS, PAYMENT, REQUEST, and PUBLIC HEALTH. More values will be supported in future releases. Link to NHIN specification: https://sequoiaproject.org/wp-content/uploads/2014/11/nhin-authorization-framework-production-specification-v3.0.pdf Example: Name="urn:oasis:names:tc:xspa:1.0:subject:purposeofuse" codeSystem="2.16.840.1.113883.3.18.7.1" code="TREATMENT"
Body Element		
Body	mandatory	
DocumentRequest	mandatory	Even though the IHE standard allows a single XCA Retrieve to include multiple DocumentRequest elements, Surescripts highly recommends that each document is requested in a separate XCA Retrieve message. This will prevent any one document retrieval that may be slow from delaying return of all requested documents.
HomeCommunityId	mandatory	Value of the home community for the requested document. Comes from the XCA Query response metadata Example: urn:oid:2.16.840.1.113883.3.2054.2.1
RepositoryUniqueId	mandatory	Value of the repository where the requested document is located. Comes from the XCA Query response metadata Example: 2.16.840.1.113883.3.2054.2.1
DocumentUniqueId	mandatory	Value of the unique id for the requested document. Comes from the XCA Query response metadata Example: 2.16.840.1.113883.3.2054.2.1.1503551

XCA Retrieve ITI-39 Response Message

Element	Code	Comment
Header Element		
Header	mandatory	
MessageID	conditional	Message ID of the request. Highly recommended, preferably a globally unique ID. Must be 255 characters or less. Example: urn:uuid:3e9cab7-e902-44b3-8c33-a3ccc88b108f Note: Populate, if possible. Highly recommended to send to aid in patient matching.
RelatesTo	conditional	Contains the message id from the original XCA Retrieve request. Example: urn:uuid:ew8d2w81-95we-h2w8-71e5-25w5f1sd6f1
Body Element		
Body	mandatory	
RegistryResponse status	mandatory	Indicates success, partial success, or error. Example: urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success
DocumentResponse	mandatory	
HomeCommunityId	mandatory	Value of the home community for the requested document. Example: urn:oid:2.16.840.1.113883.3.2054.2.1
RepositoryUniqueid	mandatory	Value of the repository where the requested document is located. Example: 2.16.840.1.113883.3.2054.2.1
DocumentUniqueid	mandatory	Value of the unique id for the requested document. Example: 2.16.840.1.113883.3.2054.2.1.1503551
NewDocumentUniqueid	mandatory	Value of the unique id for the document returned. May be different than the DocumentUniqueid requested. For example, when returning an on-demand document. Example: 2.16.840.1.113883.3.2054.2.1.53008141
contentType	mandatory	Mime type of the attached document. Example: text/xml
Document	mandatory	Encoded document.

5. Message Examples

XCPD ITI-55 Request

The following is an example of an XCPD Request Message sent from a requesting location to the Surescripts RLE.

XML

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="http://docs.

<s:Header>

  <a:Action s:mustUnderstand="1">urn:ihe:iti:2007:CrossGatewayQuery</a:Action>

  <a:MessageID>urn:uuid:5466c2e4-h5er-85ed-448e-432ed6t315e</a:MessageID>

  <a:ReplyTo>

    <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>

  </a:ReplyTo>

  <o:Security s:mustUnderstand="1" xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">

    <Assertion ID="_cba9fd90-059c-4963-acbd-24b3ae8b7622" IssueInstant="2013-11-05T19:38:58.937Z" Version="2.0" xmlns="urn:oasis

      <AttributeStatement>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization">

          <AttributeValue>Originator Health Clinic</AttributeValue>

        </Attribute>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization-id">

          <AttributeValue>urn:oid:3.2.132.132132.1.32.13.2.1.3.321321.123</AttributeValue>

        </Attribute>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:purposeofuse">

          <AttributeValue>

            <PurposeOfUse

              code="TREATMENT" codeSystem="2.16.840.1.113883.3.18.7.1" codeSystemName="nhin-purpose" displayName="Treatment" >

            </PurposeOfUse>

          </AttributeValue>

        </Attribute>

      </AttributeStatement>

    </Assertion>

  </o:Security>

</s:Header>

<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

  <PRPA_IN201305UV02 ITSVersion="XML_1.0" xmlns="urn:hl7-org:v3">
```

```

<id root="1.2.840.114350.1.13.79051.1.7.2.696777" extension="33404" />

<creationTime value="20131105133858-0600" />

<interactionId root="2.16.840.1.113883.1.6" extension="PRPA_IN201305UV02" />

<processingCode code="P" />

<processingModeCode code="T" />

<acceptAckCode code="NE" />

<receiver typeCode="RCV">

  <device classCode="DEV" determinerCode="INSTANCE">

    <id root="1.2.840.114350.1.13.79051.1.7.2.688879.1001600" />

    <asAgent classCode="AGNT">

      <representedOrganization classCode="ORG" determinerCode="INSTANCE">

        <id root="1.2.840.114350.1.13.356.1.7.2.688879" />

        </representedOrganization>

      </asAgent>

    </device>

  </receiver>

  <sender typeCode="SND">

    <device classCode="DEV" determinerCode="INSTANCE">

      <id root="1.2.840.114350.1.13.79051.1.7.2.688879.2000" />

      <asAgent classCode="AGNT">

        <representedOrganization classCode="ORG" determinerCode="INSTANCE">

          <id root="1.2.840.114350.1.13.79051.1.7.3.688884.100" />

          </representedOrganization>

        </asAgent>

      </device>

    </sender>

    <controlActProcess classCode="CACT" moodCode="EVN">

      <code code="PRPA_TE201305UV02" />

      <authorOrPerformer typeCode="AUT">

        <assignedDevice classCode="ASSIGNED">

```

```

        <id root="1.2.840.114350.1.13.79051.1.7.3.688884.100" />

    </assignedDevice>

</authorOrPerformer>

<queryByParameter>

    <queryId root="ea35eb04-4651-11e3-a0b6-0050568b42ba" />

    <statusCode code="new" />

    <responseModalityCode code="R" />

    <responsePriorityCode code="I" />

    <parameterList>

        <livingSubjectAdministrativeGender>

            <value code="M" />

            <semanticsText>LivingSubject.administrativeGender</semanticsText>

        </livingSubjectAdministrativeGender>

        <livingSubjectBirthTime>

            <value value="19610601" />

            <semanticsText>LivingSubject.birthTime</semanticsText>

        </livingSubjectBirthTime>

        <livingSubjectId>

            <value root="1.2.840.114350.1.13.79051.1.7.3.688884.100" extension="P120665500" />

            <value root="2.16.840.1.113883.4.1" extension="511427863" />

            <semanticsText>LivingSubject.id</semanticsText>

        </livingSubjectId>

        <livingSubjectName>

            <value>

                <given>Roman</given>

                <family>Little</family>

            </value>

            <semanticsText>LivingSubject.name</semanticsText>

        </livingSubjectName>

```

```
<patientAddress>

  <value>

    <streetAddressLine>5E Gold Spike Rd</streetAddressLine>

    <city>Uta</city>

    <state>NV</state>

    <postalCode>95632</postalCode>

  </value>

  <semanticsText>Patient.addr</semanticsText>

</patientAddress>

</parameterList>

</queryByParameter>

</controlActProcess>

</PRPA_IN201305UV02>

</s:Body>
```

XCPD ITI-55 Response

XCPD ITI-55 Response - Patient Found

The following is an example of an XCPD Response Message sent from Surescripts to the requesting location containing the results of the XCPD Request when a patient match is found.

XML

```

<soap:Envelope

  xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action

      xmlns="http://www.w3.org/2005/08/addressing">urn:h17-org:v3:PRPA_IN201306UV02:CrossGatewayPatientDiscovery

    </Action>

    <MessageID

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:89d2e1e0-42e3-42c8-a507-221196d7bef6

    </MessageID>

    <To

      xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous

    </To>

    <RelatesTo

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:5466c2e4-h5er-85ed-448e-432ed6t315e

    </RelatesTo>

  </soap:Header>

  <soap:Body>

    <ns2:PRPA_IN201306UV02

      xmlns:ns10="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0"

      xmlns:ns9="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"

      xmlns:ns8="urn:oasis:names:tc:ebxml-regrep:xsd:rsm:3.0"

      xmlns:ns7="http://www.hhs.gov/healthit/nhin"

      xmlns:ns6="urn:gov:hhs:fha:nhinc:common:patientcorrelationfacade"

      xmlns:ns5="http://www.w3.org/2005/08/addressing"

      xmlns:ns4="urn:gov:hhs:fha:nhinc:common:nhinccommon"

      xmlns:ns3="urn:h17-org:sdte"

      xmlns:ns2="urn:h17-org:v3" ITSVersion="XML_1.0">

        <ns2:id root="a3a17464-55db-4d91-8012-ea37fcc2e959"/>

```

```

<ns2:creationTime value="20160620221404.443+0000"/>

<ns2:interactionId root="2.16.840.1.113883.1.6" extension="PRPA_IN201306UV02"/>

<ns2:processingCode code="P"/>

<ns2:processingModeCode code="T"/>

<ns2:acceptAckCode code="NE"/>

<ns2:receiver typeCode="RCV">

  <ns2:device classCode="DEV" determinerCode="INSTANCE">

    <ns2:id root="1.2.840.114350.1.13.79051.1.7.2.688879.2000"/>

    <ns2:asAgent classCode="AGNT">

      <ns2:representedOrganization classCode="ORG" determinerCode="INSTANCE">

        <ns2:id root="1.2.840.114350.1.13.79051.1.7.3.688884.100"/>

        </ns2:representedOrganization>

      </ns2:asAgent>

    </ns2:device>

  </ns2:receiver>

  <ns2:sender typeCode="SND">

    <ns2:device classCode="DEV" determinerCode="INSTANCE">

      <ns2:id root="2.16.840.1.113883.3.2054.2.1"/>

      <ns2:asAgent classCode="AGNT">

        <ns2:representedOrganization classCode="ORG" determinerCode="INSTANCE">

          <ns2:id root="2.16.840.1.113883.3.2054.2.1"/>

          <ns2:name>

            <ns2:family>Surescripts</ns2:family>

          </ns2:name>

        </ns2:representedOrganization>

      </ns2:asAgent>

    </ns2:device>

  </ns2:sender>

  <ns2:acknowledgement>

    <ns2:typeCode code="AA"/>
  
```

```

<ns2:targetMessage>

  <ns2:id root="1.2.840.114350.1.13.79051.1.7.2.696777" extension="33404"/>

</ns2:targetMessage>

</ns2:acknowledgement>

<ns2:controlActProcess classCode="CACT" moodCode="EVN">

  <ns2:code code="PRPA_TE201306UV02" codeSystem="2.16.840.1.113883.1.6"/>

  <ns2:subject typeCode="SUBJ">

    <ns2:registrationEvent classCode="REG" moodCode="EVN">

      <ns2:id nullFlavor="NA"/>

      <ns2:statusCode code="active"/>

      <ns2:subject1 typeCode="SBJ">

        <ns2:patient classCode="PAT">

          <ns2:id root="2.16.840.1.113883.3.2054.2.1" extension="6509781"/>

          <ns2:statusCode code="active"/>

          <ns2:patientPerson classCode="PSN" determinerCode="INSTANCE">

            <ns2:name>

              <ns2:given>ROMAN</ns2:given>

              <ns2:family>LITTLE</ns2:family>

            </ns2:name>

            <ns2:administrativeGenderCode code="M"/>

            <ns2:birthTime value="19610601"/>

            <ns2:addr>

              <ns2:streetAddressLine>5E GOLD SPIKE ROAD</ns2:streetAddressLine>

              <ns2:city>ULTA</ns2:city>

              <ns2:state>NV</ns2:state>

              <ns2:postalCode>95632</ns2:postalCode>

            </ns2:addr>

          </ns2:patientPerson>

          <ns2:subjectOf1>

```

```

        <ns2:queryMatchObservation classCode="OBS" moodCode="EVN">

            <ns2:code code="IHE_PDQ"/>

            <ns2:value

                xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="ns2:INT" value="100"/>

            </ns2:queryMatchObservation>

        </ns2:subjectOf1>

    </ns2:patient>

</ns2:subject1>

<ns2:custodian typeCode="CST">

    <ns2:assignedEntity classCode="ASSIGNED">

        <ns2:id root="2.16.840.1.113883.3.2054.2.1"/>

        <ns2:code code="SupportsHealthDataLocator" codeSystem="1.3.6.1.4.1.19376.1.2.27.2"/>

    </ns2:assignedEntity>

</ns2:custodian>

</ns2:registrationEvent>

</ns2:subject>

<ns2:queryAck>

    <ns2:queryId root="ea35eb04-4651-11e3-a0b6-0050568b42ba"/>

    <ns2:queryResponseCode code="OK"/>

</ns2:queryAck>

<ns2:queryByParameter>

    <ns2:queryId root="ea35eb04-4651-11e3-a0b6-0050568b42ba"/>

    <ns2:statusCode code="new"/>

    <ns2:responseModalityCode code="R"/>

    <ns2:responsePriorityCode code="I"/>

    <ns2:parameterList>

        <ns2:livingSubjectAdministrativeGender>

            <ns2:value code="M"/>

            <ns2:semanticsText>LivingSubject.administrativeGender</ns2:semanticsText>

        </ns2:livingSubjectAdministrativeGender>

```

```

<ns2:livingSubjectBirthTime>

  <ns2:value value="19610601"/>

  <ns2:semanticsText>LivingSubject.birthTime</ns2:semanticsText>

</ns2:livingSubjectBirthTime>

<ns2:livingSubjectId>

  <ns2:value root="1.2.840.114350.1.13.79051.1.7.3.688884.100" extension="P120665500"/>

  <ns2:value root="2.16.840.1.113883.4.1" extension="511427863"/>

  <ns2:semanticsText>LivingSubject.id</ns2:semanticsText>

</ns2:livingSubjectId>

<ns2:livingSubjectName>

  <ns2:value>

    <ns2:given>Roman</ns2:given>

    <ns2:family>Little</ns2:family>

  </ns2:value>

  <ns2:semanticsText>LivingSubject.name</ns2:semanticsText>

</ns2:livingSubjectName>

<ns2:patientAddress>

  <ns2:value>

    <streetAddressLine>5E Gold Spike Rd</streetAddressLine>

    <city>Uta</city>

    <state>NV</state>

    <ns2:postalCode>95632</ns2:postalCode>

  </ns2:value>

  <ns2:semanticsText>Patient.addr</ns2:semanticsText>

</ns2:patientAddress>

</ns2:parameterList>

</ns2:queryByParameter>

</ns2:controlActProcess>

</ns2:PRPA_IN201306UV02>

```

<soap:Body>

XCPD ITI-55 Response - No Patient Match

The following is an example of an XCPD Response Message sent from Surescripts to the requesting location containing the results of the XCPD Request when no patient match is found.

XML

```

<soap:Envelope

  xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action

      xmlns="http://www.w3.org/2005/08/addressing">urn:h17-org:v3:PRPA_IN201306UV02:CrossGatewayPatientDiscovery

    </Action>

    <MessageID

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:f06012f2-a836-4413-a3de-f85b2cfc91ac

    </MessageID>

    <To

      xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous

    </To>

    <RelatesTo

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:f36c9790-5096-4008-92fb-7f88bcbb9f17

    </RelatesTo>

  </soap:Header>

  <soap:Body>

    <PRPA_IN201306UV02

      xmlns="urn:h17-org:v3"

      xmlns:ns2="urn:h17-org:sdtc"

      xmlns:ns3="urn:gov:hhs:fha:nhinc:common:nhinccommon"

      xmlns:ns4="urn:gov:hhs:fha:nhinc:common:patientcorrelationfacade"

      xmlns:ns5="http://www.w3.org/2005/08/addressing"

      xmlns:ns6="http://www.hhs.gov/healthit/nhin"

      xmlns:ns7="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"

      xmlns:ns8="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"

      xmlns:ns9="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0" ITSVersion="XML_1.0">

        <id root="752de60c-1d10-440f-87da-4c20708045de" />

```

```

<creationTime value="20160718232236.001+0000"/>

<interactionId root="2.16.840.1.113883.1.6" extension="PRPA_IN201306UV02"/>

<processingCode code="P"/>

<processingModeCode code="T"/>

<acceptAckCode code="NE"/>

<receiver typeCode="RCV">

  <device classCode="DEV" determinerCode="INSTANCE">

    <id root="1.2.840.114350.1.13.79051.1.7.2.688879.2000"/>

    <asAgent classCode="AGNT">

      <representedOrganization classCode="ORG" determinerCode="INSTANCE">

        <id root="1.2.840.114350.1.13.79051.1.7.3.688884.100"/>

        </representedOrganization>

      </asAgent>

    </device>

  </receiver>

  <sender typeCode="SND">

    <device classCode="DEV" determinerCode="INSTANCE">

      <id root="2.16.840.1.113883.3.2054.2.1"/>

      <asAgent classCode="AGNT">

        <representedOrganization classCode="ORG" determinerCode="INSTANCE">

          <id root="2.16.840.1.113883.3.2054.2.1"/>

          <name>

            <family>Surescripts</family>

          </name>

        </representedOrganization>

      </asAgent>

    </device>

  </sender>

  <acknowledgement>

    <typeCode code="AA"/>

```

```

    <targetMessage>

        <id root="1.2.840.114350.1.13.79051.1.7.2.696777" extension="33404"/>

    </targetMessage>

</acknowledgement>

<controlActProcess classCode="CACT" moodCode="EVN">

    <code code="PRPA_TE201306UV02" codeSystem="2.16.840.1.113883.1.6"/>

    <queryAck>

        <queryId root="ea35eb04-4651-11e3-a0b6-0050568b42ba"/>

        <queryResponseCode code="NF"/>

    </queryAck>

    <queryByParameter>

        <queryId root="ea35eb04-4651-11e3-a0b6-0050568b42ba"/>

        <statusCode code="new"/>

        <responseModalityCode code="R"/>

        <responsePriorityCode code="I"/>

        <parameterList>

            <livingSubjectAdministrativeGender>

                <value code="M"/>

                <semanticsText>LivingSubject.administrativeGender</semanticsText>

            </livingSubjectAdministrativeGender>

            <livingSubjectBirthTime>

                <value value="19891005"/>

                <semanticsText>LivingSubject.birthTime</semanticsText>

            </livingSubjectBirthTime>

            <livingSubjectId>

                <value root="1.2.840.114350.1.13.79051.1.7.3.688884.100" extension="P120665500"/>

                <value root="2.16.840.1.113883.4.1" extension="511427863"/>

                <semanticsText>LivingSubject.id</semanticsText>

            </livingSubjectId>

```

```

    <livingSubjectName>

      <value>

        <given>Morley</given>

        <family>Miller</family>

      </value>

      <semanticsText>LivingSubject.name</semanticsText>

    </livingSubjectName>

    <mothersMaidenName>

      <value>

        <family></family>

      </value>

      <semanticsText>Person.MothersMaidenName</semanticsText>

    </mothersMaidenName>

    <patientAddress>

      <value>

        <streetAddressLine>2841 Bryant Ave S</streetAddressLine>

        <streetAddressLine>Apt 922</streetAddressLine>

        <city>Minneapolis</city>

        <state>MN</state>

        <postalCode>55408</postalCode>

        <country></country>

      </value>

      <semanticsText>Patient.addr</semanticsText>

    </patientAddress>

    <patientTelecom>

      <value value="" use=""/>

      <semanticsText>Patient.telecom</semanticsText>

    </patientTelecom>

  </parameterList>

</queryByParameter>

```

```
</controlActProcess>

</PRPA_IN201306UV02>

</soap:Body>
```

XCPD ITI-55 Response - Error Returned Processing Request

The following is an example of a XCPD Response Message sent from Surescripts to the requesting system when an error was encountered while processing the request.

XML

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action xmlns="http://www.w3.org/2005/08/addressing">urn:h17-org:v3:PRPA_IN201306UV02:CrossGatewayPatientDiscovery</Action>

    <MessageID xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:56e063dd-d134-49e3-85f6-889a5f1f856d</MessageID>

    <To xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous</To>

    <RelatesTo xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:0b71ae63-f260-4cff-b1fa-7ba70e8b5f69</RelatesTo>

  </soap:Header>

  <soap:Body>

    <PRPA_IN201306UV02 xmlns="urn:h17-org:v3" xmlns:ns2="urn:h17-org:sdtc" xmlns:ns3="http://www.w3.org/2005/08/addressing" xmlns:

      <id root="e1b2f097-a805-40cd-94f0-88613936cc46"/>

      <creationTime value="20160726133257.733+0000"/>

      <interactionId root="2.16.840.1.113883.1.6" extension="PRPA_IN201306UV02"/>

      <processingCode code="P"/>

      <processingModeCode code="T"/>

      <acceptAckCode code="NE"/>

      <receiver typeCode="RCV">

        <device classCode="DEV" determinerCode="INSTANCE">

          <id root="1.2.840.114350.1.13.79051.1.7.2.688879.2000"/>

          <asAgent classCode="AGNT">

            <representedOrganization classCode="ORG" determinerCode="INSTANCE">

              <id root="1.2.840.114350.1.13.79051.1.7.3.688884.100"/>

            </representedOrganization>

          </asAgent>

        </device>

      </receiver>

      <sender typeCode="SND">

        <device classCode="DEV" determinerCode="INSTANCE">

          <id root="2.16.840.1.113883.3.2054.2.1"/>


```

```

<asAgent classCode="AGNT">

  <representedOrganization classCode="ORG" determinerCode="INSTANCE">

    <id root="2.16.840.1.113883.3.2054.2.1"/>

    <name>

      <family>Surescripts</family>

    </name>

  </representedOrganization>

</asAgent>

</device>

</sender>

<acknowledgement>

  <typeCode code="AE"/>

  <targetMessage>

    <id root="1.2.840.114350.1.13.79051.1.7.2.696777" extension="33404"/>

  </targetMessage>

</acknowledgement>

<controlActProcess classCode="CACT" moodCode="EVN">

  <code code="PRPA_TE201306UV02" codeSystem="2.16.840.1.113883.1.6"/>

  <reasonOf typeCode="RSN">

    <detectedIssueEvent classCode="ALRT" moodCode="EVN">

      <mitigatedBy typeCode="MITGT">

        <detectedIssueManagement classCode="ACT" moodCode="EVN">

          <code code="AnswerNotAvailable" codeSystem="1.3.6.1.4.1.19376.1.2.27.3"/>

          <text>Only M, F, UN administrative gender codes are accepted</text>

        </detectedIssueManagement>

      </mitigatedBy>

    </detectedIssueEvent>

  </reasonOf>

  <queryAck>

    <queryId root="ea35eb04-4651-11e3-a0b6-0050568b42ba"/>

```

```

    <queryResponseCode code="AE"/>

</queryAck>

<queryByParameter>

    <queryId root="ea35eb04-4651-11e3-a0b6-0050568b42ba"/>

    <statusCode code="new"/>

    <responseModalityCode code="R"/>

    <responsePriorityCode code="I"/>

    <parameterList>

        <livingSubjectAdministrativeGender>

            <value code="UNK"/>

            <semanticsText>LivingSubject.administrativeGender</semanticsText>

        </livingSubjectAdministrativeGender>

        <livingSubjectBirthTime>

            <value value="19280612"/>

            <semanticsText>LivingSubject.birthTime</semanticsText>

        </livingSubjectBirthTime>

        <livingSubjectId>

            <value root="1.2.840.114350.1.13.79051.1.7.3.688884.100" extension="P120665500"/>

            <value root="2.16.840.1.113883.4.1" extension="511427863"/>

            <semanticsText>LivingSubject.id</semanticsText>

        </livingSubjectId>

        <livingSubjectName>

            <value>

                <given>Theresa</given>

                <family>Olson</family>

            </value>

            <semanticsText>LivingSubject.name</semanticsText>

        </livingSubjectName>

        <mothersMaidenName>

```

```

        <value>

        <family></family>

    </value>

    <semanticsText>Person.MothersMaidenName</semanticsText>

</mothersMaidenName>

<patientAddress>

    <value>

        <streetAddressLine>3141 East Avenue South</streetAddressLine>

        <streetAddressLine></streetAddressLine>

        <city>La Crosse</city>

        <state>WI</state>

        <postalCode>546017228</postalCode>

        <country></country>

    </value>

    <semanticsText>Patient.addr</semanticsText>

</patientAddress>

<patientTelecom>

    <value value="" use=""/>

    <semanticsText>Patient.telecom</semanticsText>

</patientTelecom>

</parameterList>

</queryByParameter>

</controlActProcess>

</PRPA_IN201306UV02>

</soap:Body>

```

PLQ ITI-56 Request

The following is an example of a PLQ Request Message sent from the requesting location to the Surescripts RLE to locate a list of communities that may have records for a patient referenced by a patient identifier.

XML

```
<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:xcpd="urn:ihe:
  <s:Header>

  <a:Action s:mustUnderstand="1">urn:ihe:iti:2007:CrossGatewayQuery</a:Action>

  <a:MessageID>urn:uuid:52e5fg51-7ed4-dg2e-7548-2e555e2s6fd</a:MessageID>

  <a:ReplyTo>

    <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>

  </a:ReplyTo>

  <DirectAddressReplyOverride/>

  <o:Security s:mustUnderstand="1" xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">

    <Assertion ID="_cba9fd90-059c-4963-acbd-24b3ae8b7622" IssueInstant="2013-11-05T19:38:58.937Z" Version="2.0" xmlns="urn:oasis:
      <AttributeStatement>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization">

          <AttributeValue>Originator Health Clinic</AttributeValue>

        </Attribute>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization-id">

          <AttributeValue>urn:oid:3.2.132.132132.1.32.13.2.1.3.321321.123</AttributeValue>

        </Attribute>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:purposeofuse">

          <AttributeValue>

            <PurposeOfUse

              code="TREATMENT" codeSystem="2.16.840.1.113883.3.18.7.1" codeSystemName="nhin-purpose" displayName="Treatment" >

            </PurposeOfUse>

          </AttributeValue>

        </Attribute>

      </AttributeStatement>

    </Assertion>

  </o:Security>

</s:Header>

<s:Body xmlns:xsd="http://www.w3.org/2001/XMLSchema">
```

```
<PatientLocationQueryRequest xmlns="urn:ihe:iti:xcpd:2009">

  <RequestedPatientId assigningAuthorityName="Surescripts" root="2.16.840.1.113883.3.2054.2.1" extension="6509781"/>

</PatientLocationQueryRequest>

</s:Body>

</s:Envelope>
```

PLQ ITI-56 Response

PLQ ITI-56 Response - Patient Record Locations Returned

The following is an example of a PLQ Response Message sent from Surescripts to the requesting location containing the results of the PLQ Request.

XML

```

<soap:Envelope

  xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action

      xmlns="http://www.w3.org/2005/08/addressing">urn:ihe:iti:2009:PatientLocationQueryResponse

    </Action>

    <MessageID

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:8f780679-e5b8-4769-aa99-ca21582aa6a3

    </MessageID>

    <To

      xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous

    </To>

    <RelatesTo

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:52e5fg51-7ed4-dg2e-7548-2e555e2s6fd

    </RelatesTo>

  </soap:Header>

  <soap:Body>

    <PatientLocationQueryResponse

      xmlns="urn:ihe:iti:xcpd:2009"

      xmlns:ns10="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0"

      xmlns:ns2="urn:hl7-org:v3"

      xmlns:ns3="urn:hl7-org:sdtc"

      xmlns:ns4="urn:gov:hhs:fha:nhinc:common:nhinccommon"

      xmlns:ns5="http://www.w3.org/2005/08/addressing"

      xmlns:ns6="urn:gov:hhs:fha:nhinc:common:patientcorrelationfacade"

      xmlns:ns7="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"

      xmlns:ns8="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"

      xmlns:ns9="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0">

```

```

    <PatientLocationResponse>

      <HomeCommunityId>urn:oid:1.3.6.1.4.1.21367.13.70.82</HomeCommunityId>

      <CorrespondingPatientId extension="280024" root="1.2872.1.1"/>

      <RequestedPatientId extension="6509781" root="2.16.840.1.113883.3.2054.2.1"/>

    </PatientLocationResponse>

    <PatientLocationResponse>

      <HomeCommunityId>urn:oid:2.16.840.1.113883.3.2054.2.1</HomeCommunityId>

      <CorrespondingPatientId extension="B320025" root="2.16.840.1.113883.3.333"/>

      <RequestedPatientId extension="6509781" root="2.16.840.1.113883.3.2054.2.1"/>

    </PatientLocationResponse>

    <PatientLocationResponse>

      <HomeCommunityId>urn:oid:2.16.840.1.113883.3.2054.2.1</HomeCommunityId>

      <CorrespondingPatientId extension="6509781" root="2.16.840.1.113883.3.2054.2.1"/>

      <RequestedPatientId extension="6509781" root="2.16.840.1.113883.3.2054.2.1"/>

    </PatientLocationResponse>

  </PatientLocationQueryResponse>

</soap:Body>

</soap:Envelope>

```

PLQ ITI-56 Response - Not a Health Data Locator

The following is an example of a PLQ Response Message sent from Surescripts to the requesting location when Surescripts never had, or no longer has information on the requested patient. The response will be a soap fault and indicate that Surescripts is 'Not a Health Data Locator'. The requesting system should drop this Patient ID correlation and start over with an XCPD for this patient.

XML

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action xmlns="http://www.w3.org/2005/08/addressing">urn:ihe:iti:xcpd:2009:RespondingGateway_PortType:RespondingGateway_PatientRegistrationRequest</Action>

    <MessageID xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:094671f5-264f-4132-a86e-ceb3c01d55f1</MessageID>

    <To xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous</To>

    <RelatesTo xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:97adff56-3721-4f4a-bdab-7920874c53f3</RelatesTo>

  </soap:Header>

  <soap:Body>

    <soap:Fault>

      <soap:Code>

        <soap:Value>soap:Sender</soap:Value>

      </soap:Code>

      <soap:Reason>

        <soap:Text xml:lang="en">Not a Health Data Locator for patient identifiers with root 0<Brien></soap:Text>

      </soap:Reason>

    </soap:Fault>

  </soap:Body>

</soap:Envelope>
```

PLQ ITI-56 Response - Error Returned Processing Request

The following is an example of a PLQ Response Message sent from Surescripts to the requesting system when an error was encountered while processing the request.

XML

```
<soap:Envelope

  xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action

      xmlns="http://www.w3.org/2005/08/addressing">urn:ihe:iti:xcpd:2009:RespondingGateway_PortType:RespondingGateway_PatientLoc

    </Action>

    <MessageID

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:c54b4e94-686d-4e8f-9257-430e13d6b026

    </MessageID>

    <To

      xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous

    </To>

    <RelatesTo

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:6cb07a13-7c55-47a3-a299-88e5f53e7a60

    </RelatesTo>

  </soap:Header>

  <soap:Body>

    <soap:Fault>

      <soap:Code>

        <soap:Value>soap:Sender</soap:Value>

      </soap:Code>

      <soap:Reason>

        <soap:Text xml:lang="en">A patient identifier root (max length = 64 characters) must be entered.</soap:Text>

      </soap:Reason>

    </soap:Fault>

  </soap:Body>

</soap:Envelope>
```

XCA Query ITI-38 Request

The following is an example of a XCA Query Request Message sent from the requesting location to Surescripts.

XML

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="http://docs.

<s:Header>

  <a:Action s:mustUnderstand="1">urn:ihe:iti:2007:CrossGatewayQuery</a:Action>

  <a:MessageID>urn:uuid:8dgs25ed-he8s-rtg5-wed1-26we15fs7ts</a:MessageID>

  <a:ReplyTo>

    <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>

  </a:ReplyTo>

  <DirectAddressReplyOverride/>

  <o:Security s:mustUnderstand="1" xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">

    <Assertion ID="_cba9fd90-059c-4963-acbd-24b3ae8b7622" IssueInstant="2013-11-05T19:38:58.937Z" Version="2.0" xmlns="urn:oasis

      <AttributeStatement>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization">

          <AttributeValue>Originator Health Clinic</AttributeValue>

        </Attribute>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization-id">

          <AttributeValue>urn:oid:3.2.132.132132.1.32.13.2.1.3.321321.123</AttributeValue>

        </Attribute>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:purposeofuse">

          <AttributeValue>

            <PurposeOfUse

              code="TREATMENT" codeSystem="2.16.840.1.113883.3.18.7.1" codeSystemName="nhin-purpose" displayName="Treatment" >

            </PurposeOfUse>

          </AttributeValue>

        </Attribute>

      </AttributeStatement>

    </Assertion>

  </o:Security>

</s:Header>

<s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
```

```
<AdhocQueryRequest xmlns="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0">

  <ResponseOption returnType="LeafClass" returnComposedObjects="true"/>

  <AdhocQuery id="urn:uuid:14d4debf-8f97-4251-9a74-a90016b0af0d" xmlns="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0">

    <Slot name="$XDSDocumentEntryPatientId">

      <ValueList>

        <Value>6509781^^^&2.16.840.1.113883.3.2054.2.1</Value>

      </ValueList>

    </Slot>

    <Slot name="$XDSDocumentEntryStatus">

      <ValueList>

        <Value>( 'urn:oasis:names:tc:ebxml-regrep:StatusType:Approved' )</Value>

      </ValueList>

    </Slot>

  </AdhocQuery>

</AdhocQueryRequest>

</s:Body>

</s:Envelope>
```

XCA Query ITI-38 Response

XCA Query ITI-38 Response - Location Summary Metadata Returned

The following is an example of an XCA Query Response Message sent from Surescripts to the requesting location.

XML

```

<soap:Envelope

  xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action

      xmlns="http://www.w3.org/2005/08/addressing">urn:ihe:iti:2007:CrossGatewayQueryResponse

    </Action>

    <MessageID

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:5f13b87f-02bc-4d6d-aa93-eba20017b153

    </MessageID>

    <To

      xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous

    </To>

    <RelatesTo

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:8dgs25ed-he8s-rtg5-wed1-26we15fs7ts

    </RelatesTo>

  </soap:Header>

  <soap:Body>

    <ns4:AdhocQueryResponse

      xmlns:ns5="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0"

      xmlns:ns4="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0"

      xmlns:ns3="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"

      xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rjm:3.0" totalResultCount="1" status="urn:oasis:names:tc:ebxml-regrep:F

    <ns2:RegistryObjectList>

      <ns2:ExtrinsicObject mimeType="text/xml" lid="81d301a8-60a6-4730-b00a-2cc09b840e10" objectType="urn:uuid:34268e47-

        <ns2:Slot name="languageCode">

          <ns2:ValueList>

            <ns2:Value>en-us</ns2:Value>

          </ns2:ValueList>

        </ns2:ExtrinsicObject>

      </ns2:RegistryObjectList>

    </ns4:AdhocQueryResponse>

  </soap:Body>

</soap:Envelope>

```

```

</ns2:Slot>

<ns2:Slot name="repositoryUniqueId">

  <ns2:ValueList>

    <ns2:Value>2.16.840.1.113883.3.2054.2.1</ns2:Value>

  </ns2:ValueList>

</ns2:Slot>

<ns2:Slot name="sourcePatientId">

  <ns2:ValueList>

    <ns2:Value>6509781^^^&2.16.840.1.113883.3.2054.2.1&ISO</ns2:Value>

  </ns2:ValueList>

</ns2:Slot>

<ns2:Slot name="URI">

  <ns2:ValueList>

    <ns2:Value>LocationSummary.xml</ns2:Value>

  </ns2:ValueList>

</ns2:Slot>

<ns2:Name>

  <ns2:LocalizedString value="Surescripts Location Summary"/>

</ns2:Name>

<ns2:VersionInfo versionName="1.0" comment="initial version"/>

<ns2:Classification classificationScheme="urn:uuid:93606bcf-9494-43ec-9b4e-a7748d1a838d" classifiedObject="81c

  <ns2:Slot name="authorInstitution">

    <ns2:ValueList>

      <ns2:Value>Surescripts^^^^^^^2.16.840.1.113883.3.2054.2.1</ns2:Value>

    </ns2:ValueList>

  </ns2:Slot>

</ns2:Classification>

<ns2:Classification classificationScheme="urn:uuid:41a5887f-8865-4c09-adf7-e362475b143a" classifiedObject="81c

  <ns2:Slot name="codingScheme">

    <ns2:ValueList>

```

```

        <ns2:Value>2.16.840.1.113883.6.1</ns2:Value>

    </ns2:ValueList>

</ns2:Slot>

<ns2:Name>

    <ns2:LocalizedString xml:lang="en-us" charset="UTF-8" value="Location Summary"/>

</ns2:Name>

</ns2:Classification>

<ns2:Classification classificationScheme="urn:uuid:a09d5840-386c-46f2-b5ad-9c3699a4309d" classifiedObject="81c

    <ns2:Slot name="codingScheme">

        <ns2:ValueList>

            <ns2:Value>1.3.6.1.4.1.19376.1.2.3</ns2:Value>

        </ns2:ValueList>

    </ns2:Slot>

    <ns2:Name>

        <ns2:LocalizedString xml:lang="en-us" charset="UTF-8" value="Exchange of Personal Health Records"/>

    </ns2:Name>

</ns2:Classification>

<ns2:Classification classificationScheme="urn:uuid:f0306f51-975f-434e-a61c-c59651d33983" classifiedObject="81c

    <ns2:Slot name="codingScheme">

        <ns2:ValueList>

            <ns2:Value>2.16.840.1.113883.6.1</ns2:Value>

        </ns2:ValueList>

    </ns2:Slot>

    <ns2:Name>

        <ns2:LocalizedString xml:lang="en-us" charset="UTF-8" value="Location Summary"/>

    </ns2:Name>

</ns2:Classification>

<ns2:ExternalIdentifier registryObject="81d301a8-60a6-4730-b00a-2cc09b840e10" identificationScheme="urn:uuid:2

    <ns2:Name>

```

```

        <ns2:LocalizedString xml:lang="en-us" charset="UTF-8" value="XSDocumentEntry.uniqueId"/>

    </ns2:Name>

    </ns2:ExternalIdentifier>

    <ns2:ExternalIdentifier registryObject="81d301a8-60a6-4730-b00a-2cc09b840e10" identificationScheme="urn:uuid:5

    <ns2:Name>

        <ns2:LocalizedString xml:lang="en-us" charset="UTF-8" value="XSDocumentEntry.patientId"/>

    </ns2:Name>

    </ns2:ExternalIdentifier>

    </ns2:ExtrinsicObject>

    </ns2:RegistryObjectList>

</ns4:AdhocQueryResponse>

</soap:Body>

</soap:Envelope>

<Slot name="codingScheme">

    <ValueList>

        <Value>2.16.840.1.113883.6.1</Value>

    </ValueList>

</Slot>

<Name>

    <LocalizedString xml:lang="en-us" charset="UTF-8" value="Summary of episode note"/>

</Name>

</Classification>

<Classification classificationScheme="urn:uuid:a09d5840-386c-46f2-b5ad-9c3699a4309d" classifiedObject="d52192e8-97c

    <Slot name="codingScheme">

        <ValueList>

            <Value>1.3.6.1.4.1.19376.1.2.3</Value>

        </ValueList>

    </Slot>

    <Name>

        <LocalizedString xml:lang="en-us" charset="UTF-8" value="Exchange of Personal Health Records"/>

```

```

        </Name>

    </Classification>

    <Classification classificationScheme="urn:uuid:f0306f51-975f-434e-a61c-c59651d33983" classifiedObject="d52192e8-97c

        <Slot name="codingScheme">

            <ValueList>

                <Value>2.16.840.1.113883.6.1</Value>

            </ValueList>

        </Slot>

        <Name>

            <LocalizedString xml:lang="en-us" charset="UTF-8" value="Summary of episode note"/>

        </Name>

    </Classification>

    <ExternalIdentifier registryObject="d52192e8-97d7-4608-aa62-c0f038cff984" identificationScheme="urn:uuid:2e82c1f6-e

        <Name>

            <LocalizedString xml:lang="en-us" charset="UTF-8" value="XDSDocumentEntry.uniqueId"/>

        </Name>

    </ExternalIdentifier>

    <ExternalIdentifier registryObject="d52192e8-97d7-4608-aa62-c0f038cff984" identificationScheme="urn:uuid:58a6f841-e

        <Name>

            <LocalizedString xml:lang="en-us" charset="UTF-8" value="XDSDocumentEntry.patientId"/>

        </Name>

    </ExternalIdentifier>

</ExtrinsicObject>

</RegistryObjectList>

</ns3:AdhocQueryResponse>

</soap:Body>

```

XCA Query ITI-38 Response - No Documents Available

The following is an example of an XCA Query Response Message sent from Surescripts to the requesting location when no documents are available for the requested patient.

XML

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action xmlns="http://www.w3.org/2005/08/addressing">urn:ihe:iti:2007:CrossGatewayQueryResponse</Action>

    <MessageID xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:b2d43bfd-2fba-4adc-8887-18915c07c0bc</MessageID>

    <To xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous</To>

    <RelatesTo xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:077f3111-6609-48db-88cf-dd4280498461</RelatesTo>

  </soap:Header>

  <soap:Body>

    <ns3:AdhocQueryResponse xmlns="urn:oasis:names:tc:ebxml-regrep:xsd:rjm:3.0" xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rjm:3.0">

    </ns3:AdhocQueryResponse>

  </soap:Body>

</soap:Envelope>
```

XCA Query ITI-38 Response - Error Returned Processing Request

The following is an example of an XCA Query Error Response Message sent from Surescripts to the requesting location.

XML

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action xmlns="http://www.w3.org/2005/08/addressing">urn:ihe:iti:2007:CrossGatewayQueryResponse</Action>

    <MessageID xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:8ab7dcfa-7aee-4415-98a9-9eb7f5a97a9d</MessageID>

    <To xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous</To>

    <RelatesTo xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:6ac7dafa-8aee-4415-98a9-9eb7f5a97a6f</RelatesTo>

  </soap:Header>

  <soap:Body>

    <ns3:AdhocQueryResponse xmlns="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0" xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:r

      <ns2:RegistryErrorList highestSeverity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error">

        <ns2:RegistryError codeContext="Subject Organization required" errorCode="XDSRegistryError" severity="urn:oasis:names:

      </ns2:RegistryErrorList>

      <RegistryObjectList/>

    </ns3:AdhocQueryResponse>

  </soap:Body>

</soap:Envelope>
```

XCA Retrieve ITI-39 Request

The following is an example of a XCA Retrieve Request Message sent from the requesting location to Surescripts.

XML

```
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="http://docs.

<s:Header>

  <a:Action s:mustUnderstand="1">urn:ihe:iti:2007:CrossGatewayQuery</a:Action>

  <a:MessageID>urn:uuid:ew8d2w81-95we-h2w8-71e5-25w5f1sd6f1</a:MessageID>

  <a:ReplyTo>

    <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>

  </a:ReplyTo>

  <a:To s:mustUnderstand="1" u:Id="_1">https://test.abc.com/abc.community/xca.svc</a:To>

  <a:From a:IsReferenceParameter="true">

    <a:Address>urn:abc:123.xcarequest</a:Address>

  </a:From>

  <o:Security s:mustUnderstand="1" xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"

    <u:Timestamp u:Id="_0">

      <u:Created>2013-11-05T19:38:58.953Z</u:Created>

      <u:Expires>2013-11-05T19:43:58.953Z</u:Expires>

    </u:Timestamp>

    <Assertion ID="_cba9fd90-059c-4963-acbd-24b3ae8b7622" IssueInstant="2013-11-05T19:38:58.937Z" Version="2.0" xmlns="urn:oasis:names:tc:xacml:3.0"

      <AttributeStatement>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization">

          <AttributeValue>Originator Health Clinic</AttributeValue>

        </Attribute>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization-id">

          <AttributeValue>urn:oid:3.2.132.132132.1.32.13.2.1.3.321321.123</AttributeValue>

        </Attribute>

        <Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:purposeofuse">

          <AttributeValue>

            <PurposeOfUse

              code="TREATMENT" codeSystem="2.16.840.1.113883.3.18.7.1" codeSystemName="nhin-purpose" displayName="Treatment" >
```

```

        </AttributeValue>

    </Attribute>

    </AttributeStatement>

</Assertion>

</o:Security>

</s:Header>

<s:Body>

    <urn:RetrieveDocumentSetRequest><!--One Document request-->

        <urn:DocumentRequest>

            <urn:HomeCommunityId>urn:oid:2.16.840.1.113883.3.2054.2.1</urn:HomeCommunityId>

            <urn:RepositoryUniqueId>2.16.840.1.113883.3.2054.2.1</urn:RepositoryUniqueId>

            <urn:DocumentUniqueId>2.16.840.1.113883.3.2054.2.1.53008131</urn:DocumentUniqueId>

        </urn:DocumentRequest>

    </urn:RetrieveDocumentSetRequest>

</s:Body>

</s:Envelope>

```

XCA Retrieve ITI-39 Response

XCA Retrieve ITI-39 Response - Records Returned

The following is an example of a XCA Retrieve Response Message sent from Surescripts to the requesting location.

XML

```
<soap:Envelope

  xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action

      xmlns="http://www.w3.org/2005/08/addressing">urn:ihe:iti:2007:CrossGatewayRetrieveResponse

    </Action>

    <MessageID

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:3e9cab7-e902-44b3-8c33-a3ccc88b108f

    </MessageID>

    <To

      xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous

    </To>

    <RelatesTo

      xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:ew8d2w81-95we-h2w8-71e5-25w5f1sd6f1

    </RelatesTo>

  </soap:Header>

  <soap:Body>

    <ns2:RetrieveDocumentSetResponse

      xmlns:ns6="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0"

      xmlns:ns5="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0"

      xmlns:ns4="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"

      xmlns:ns3="urn:oasis:names:tc:ebxml-regrep:xsd:rsm:3.0"

      xmlns:ns2="urn:ihe:iti:xds-b:2007">

      <ns4:RegistryResponse status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success"/>

      <ns2:DocumentResponse>

        <ns2:HomeCommunityId>urn:oid:2.16.840.1.113883.3.2054.2.1</ns2:HomeCommunityId>

        <ns2:RepositoryUniqueId>2.16.840.1.113883.3.2054.2.1</ns2:RepositoryUniqueId>

        <ns2:DocumentUniqueId>2.16.840.1.113883.3.2054.2.1.53008131</ns2:DocumentUniqueId>

      </ns2:DocumentResponse>

    </ns2:RetrieveDocumentSetResponse>

  </soap:Body>

</soap:Envelope>
```

```

<ns2:NewDocumentUniqueId>2.16.840.1.113883.3.2054.2.1.53008141</ns2:NewDocumentUniqueId>

<ns2:mimeType>text/xml</ns2:mimeType>

<ns2:Document>PD94blwwgdmVy0ZD48G...

... encoded document data truncated for readability ....

</ns2:Document>

</ns2:DocumentResponse>

</ns2:RetrieveDocumentSetResponse>

</soap:Body>

</soap:Envelope>

```

XCA Retrieve ITI-39 Response - Error Returned Processing Request

The following is an example of an XCA Retrieve Error Response Message sent from Surescripts to the requesting location.

XML

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">

  <soap:Header>

    <Action xmlns="http://www.w3.org/2005/08/addressing">urn:ihe:iti:2007:CrossGatewayRetrieveResponse</Action>

    <MessageID xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:d64dc016-c965-4808-b773-f57b679ff487</MessageID>

    <To xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous</To>

    <RelatesTo xmlns="http://www.w3.org/2005/08/addressing">3a4655c4-b075-4c10-8af2-c5b16b442b9d</RelatesTo>

  </soap:Header>

  <soap:Body>

    <RetrieveDocumentSetResponse xmlns="urn:ihe:iti:xds-b:2007" xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0" xmlns:ns3=

      <ns3:RegistryResponse status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Failure">

        <ns3:RegistryErrorList highestSeverity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error">

          <ns3:RegistryError codeContext="Home Community ID must be specified" errorCode="XDSMissingHomeCommunityId" severity="urn

        </ns3:RegistryErrorList>

      </ns3:RegistryResponse>

    </RetrieveDocumentSetResponse>

  </soap:Body>

</soap:Envelope>

```

Surescripts Location Summary CDA

Note: Each location is listed in multiple elements within the Location Summary CDA.

- 1. HTML table data within the structuredBody is typically viewed by users with a stylesheet applied within the EHR.
- 2. Each location is also included as an XML encounter entry with discrete data elements.
 - a. Encounter entries are available to be parsed by a system for use within the EHR.
 - b. When available, data includes encounter date, NPI, address, organization and provider names, phone, and specialty information as seen in the table data of the structured body.

The following table includes further explanation for key fields.

Note: While name and address information is typically included, encounter date and NPI are the mandatory fields that will always be included. Other elements are optional and will be included when available.

Element	Description
recordTarget/patientRole>	Contains patient data
id root	Assign authority
id extension	Patient ID
addr	Patient address
name	Patient name
author & custodian	Will always be Surescripts
structuredBody	
text	The text table within the structuredBody contains an HTML formatted version of the location information contained in the Location Summary CDA. This is typically viewed by a person using a stylesheet.
encounter	For each row from the text table, a separate encounter entry will be included. The encounter entry is XML and may be parsed for use in an application.
effectiveTime	Indicates the date of the encounter
performer/assignedEntity/id	Extension contains the NPI with id root always set to 2.16.840.1.113883.4.6
performer/assignedEntity/addr	Contains the address of the location
performer/assignedEntity/telecom	Contains the phone number of the location
performer/assignedEntity/assignedPerson	Contains provider name
participant/code	The NUCC coded specialty
participant/addr	Contains the address of the location (will match the address from performer/assignedEntity/addr).
participant/telecom	Contains the phone of the location (will match the phone number from performer/assignedEntity/telecom).
participant/playingEntity	Contains the organization name, if known; otherwise, it contains the concatenated provider first and last name.

The following is an example of a Surescripts Location Summary CDA.

XML

```
<?xml version="1.0" encoding="UTF-8"?>

<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3

  <realmCode code="US"/>

  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>

  <templateId root="2.16.840.1.113883.10.20.22.1.1"/>

  <templateId root="2.16.840.1.113883.10.20.22.1.2"/>

  <id root="2.16.840.1.113883.3.2054.2.1" extension="2.16.840.1.113883.3.2054.2.1.53008131"/>

  <code code="34133-9" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Location Summary"/>

  <title>Surescripts Location Summary</title>

  <effectiveTime value="20161219203004"/>

  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25" codeSystemName="HL7 Confidentiality Code" displayName="normal"

  <languageCode code="en-US"/>

  <recordTarget>

    <patientRole>

      <id root="2.16.840.1.113883.3.2054.2.1" extension="6509781"/>

      <addr>

        <streetAddressLine>5E GOLD SPIKE RD</streetAddressLine>

        <city>ULTA</city>

        <state>NV</state>

        <postalCode>95632</postalCode>

        <country>US</country>

      </addr>

      <telecom nullFlavor="NI" value=""/>

      <patient>

        <name>

          <given>ROMAN</given>

          <family>LITTLE</family>

        </name>
```

```

    <administrativeGenderCode code="M" codeSystem="2.16.840.1.113883.5.1" codeSystemName="AdministrativeGender" displayName="M"/>

    <birthTime value="19610601"/>

  </patient>

</patientRole>

</recordTarget>

<author>

  <time value="20161219203004"/>

  <assignedAuthor>

    <id nullFlavor="NA" root="2.16.840.1.113883.3.2054.2.1"/>

    <addr>

      <streetAddressLine>920 2nd Avenue South</streetAddressLine>

      <streetAddressLine>Suite 400</streetAddressLine>

      <city>Minneapolis</city>

      <state>MN</state>

      <postalCode>55402</postalCode>

      <country>US</country>

    </addr>

    <telecom nullFlavor="NI" value=""/>

    <assignedAuthoringDevice>

      <softwareName>Surescripts RLE</softwareName>

    </assignedAuthoringDevice>

    <representedOrganization>

      <name>Surescripts</name>

    </representedOrganization>

  </assignedAuthor>

</author>

<custodian>

  <assignedCustodian>

    <representedCustodianOrganization>

      <id nullFlavor="NA" root="2.16.840.1.113883.3.2054.2.1"/>

```

```

    <name>Surescripts</name>

    <telecom nullFlavor="NI" value=""/>

    <addr>

      <streetAddressLine>920 2nd Avenue South</streetAddressLine>

      <streetAddressLine>Suite 400</streetAddressLine>

      <city>Minneapolis</city>

      <state>MN</state>

      <postalCode>55402</postalCode>

      <country>US</country>

    </addr>

  </representedCustodianOrganization>

</assignedCustodian>

</custodian>

<documentationOf>

  <serviceEvent classCode="PCPR">

    <effectiveTime>

      <low nullFlavor="NA"/>

      <high nullFlavor="NA"/>

    </effectiveTime>

  </serviceEvent>

</documentationOf>

<component>

  <structuredBody>

    <component>

      <section>

        <templateId root="2.16.840.1.113883.10.20.22.2.22"/>

        <templateId root="2.16.840.1.113883.10.20.22.2.22" extension="2015-08-01"/>

        <templateId root="2.16.840.1.113883.10.20.22.2.22.1"/>

        <templateId root="2.16.840.1.113883.10.20.22.2.22.1" extension="2015-08-01"/>

```

```
<code code="46240-8" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="History of Encounters"/>

<title>Surescripts Location Summary</title>

<text>

<paragraph>The following is a list of possible locations where this patient may have records.</paragraph>

<table border="1">

  <thead>

    <tr>

      <th>Date</th>

      <th>Organization Name</th>

      <th>Last Name</th>

      <th>First Name</th>

      <th>Suffix</th>

      <th>Specialty</th>

      <th>Address</th>

      <th>City</th>

      <th>State</th>

      <th>Zip</th>

      <th>Phone</th>

      <th>Provider NPI</th>

    </tr>

  </thead>

  <tbody>

    <tr ID="encounter1">

      <td>06/18/2016</td>

      <td>Ajit Medical Center</td>

      <td>Jones</td>

      <td>Jennifer</td>

      <td/>

      <td>Nuclear Cardiology</td>

      <td>4940 Excelsior Ave</td>
```

```

        <td>Suffton</td>

        <td>GA</td>

        <td>25856</td>

        <td>(706) 455-2345</td>

        <td>1287373835</td>

    </tr>

    <tr ID="encounter2">

        <td>07/15/2015</td>

        <td>Highland Clinic</td>

        <td/>

        <td/>

        <td/>

        <td/>

        <td>414 Cleveland Avenue</td>

        <td>Suffton</td>

        <td>GA</td>

        <td>25856</td>

        <td>(706) 644-5555</td>

        <td>1233333339</td>

    </tr>

    <tr ID="encounter3">

        <td>06/24/2015</td>

        <td>Turner Health Care</td>

        <td>Turner</td>

        <td>Mary</td>

        <td/>

        <td>Adult Medicine</td>

        <td>78 Potter Way</td>

        <td>Suffton</td>

```

```

        <td>GA</td>

        <td>25856</td>

        <td>(706) 777-2222</td>

        <td>1288888880</td>

    </tr>

    <tr ID="encounter4">

        <td>01/30/2015</td>

        <td/>

        <td>Young</td>

        <td>Gloria</td>

        <td>MD</td>

        <td>Cardiovascular Disease</td>

        <td>4350 Dewey Ave Ste 72</td>

        <td>Omaha</td>

        <td>NE</td>

        <td>68105-1017</td>

        <td>(402) 444-3333 x 2305</td>

        <td>122222220</td>

    </tr>

    <tr ID="encounter5">

        <td>11/30/2014</td>

        <td>Turner Health Care</td>

        <td>Turner</td>

        <td>Mary</td>

        <td/>

        <td>Adult Medicine</td>

        <td>78 Potter Way</td>

        <td>Suffton</td>

        <td>GA</td>

        <td>25856</td>

```

```

        <td>(706) 777-2222</td>

        <td>1288888880</td>

    </tr>

    <tr ID="encounter6">

        <td>05/14/2014</td>

        <td>Center For Health North Clinic</td>

        <td/>

        <td/>

        <td/>

        <td>Internal Medicine</td>

        <td>649 S 42nd St</td>

        <td>Omaha</td>

        <td>NE</td>

        <td>68198-1002</td>

        <td>(402) 644-9988</td>

        <td>1244444448</td>

    </tr>

</tbody>

</table>

</text>

<entry>

    <encounter classCode="ENC" moodCode="EVN">

        <templateId root="2.16.840.1.113883.10.20.22.4.49"/>

        <templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2015-08-01"/>

        <id root="2.16.840.1.113883.3.2054.2.1" extension="20160618-1287373835" assigningAuthorityName="Surescripts"/>

        <code code="AMB" codeSystem="2.16.840.1.113883.5.4" displayName="Ambulatory">

            <originalText>Patient Interaction</originalText>

        </code>

        <text>

```

```

    <reference value="#encounter1"/>

</text>

<effectiveTime value="20160618"/>

<performer typeCode="PRF">

    <time>

        <low nullFlavor="UNK"/>

        <high nullFlavor="UNK"/>

    </time>

    <assignedEntity classCode="ASSIGNED">

        <id root="2.16.840.1.113883.4.6" extension="1287373835"/>

        <addr>

            <streetAddressLine>4940 Excelsior Ave</streetAddressLine>

            <city>Suffton</city>

            <state>GA</state>

            <postalCode>25856</postalCode>

            <country>US</country>

        </addr>

        <telecom value="tel:+1-(706)455-2345" use="WP"/>

        <assignedPerson>

            <name>

                <given>Jennifer</given>

                <family>Jones</family>

            </name>

        </assignedPerson>

    </assignedEntity>

</performer>

<participant typeCode="LOC">

    <participantRole classCode="SDLOC">

        <id root="2.16.840.1.113883.10.20.22.4.32"/>

        <code code="207UN0901X" codeSystem="2.16.840.1.113883.6.101" codeSystemName="Health Care Provider Taxonomy" disp

```

```

        <originalText>Nuclear Cardiology</originalText>

    </code>

    <addr>

        <streetAddressLine>4940 Excelsior Ave</streetAddressLine>

        <city>Suffton</city>

        <state>GA</state>

        <postalCode>25856</postalCode>

        <country>US</country>

    </addr>

    <telecom value="tel:+1-(706)455-2345" use="WP"/>

    <playingEntity classCode="PLC">

        <name>Ajit Medical Center</name>

    </playingEntity>

</participantRole>

</participant>

</encounter>

</entry>

<entry>

    <encounter classCode="ENC" moodCode="EVN">

        <templateId root="2.16.840.1.113883.10.20.22.4.49"/>

        <templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2015-08-01"/>

        <id root="2.16.840.1.113883.3.2054.2.1" extension="20150715-1233333339" assigningAuthorityName="Surescripts"/>

        <code code="AMB" codeSystem="2.16.840.1.113883.5.4" displayName="Ambulatory">

            <originalText>Patient Interaction</originalText>

        </code>

        <text>

            <reference value="#encounter2"/>

        </text>

        <effectiveTime value="20150715"/>

```

```

<performer typeCode="PRF">

  <time>

    <low nullFlavor="UNK"/>

    <high nullFlavor="UNK"/>

  </time>

  <assignedEntity classCode="ASSIGNED">

    <id root="2.16.840.1.113883.4.6" extension="1233333339"/>

    <addr>

      <streetAddressLine>414 Cleveland Avenue</streetAddressLine>

      <city>Suffton</city>

      <state>GA</state>

      <postalCode>25856</postalCode>

      <country>US</country>

    </addr>

    <telecom value="tel:+1-(706)644-5555" use="WP"/>

  </assignedEntity>

</performer>

<participant typeCode="LOC">

  <participantRole classCode="SDLOC">

    <id root="2.16.840.1.113883.10.20.22.4.32"/>

    <addr>

      <streetAddressLine>414 Cleveland Avenue</streetAddressLine>

      <city>Suffton</city>

      <state>GA</state>

      <postalCode>25856</postalCode>

      <country>US</country>

    </addr>

    <telecom value="tel:+1-(706)644-5555" use="WP"/>

    <playingEntity classCode="PLC">

      <name>Highland Clinic</name>

```

```

        </playingEntity>

    </participantRole>

</participant>

</encounter>

</entry>

<entry>

    <encounter classCode="ENC" moodCode="EVN">

        <templateId root="2.16.840.1.113883.10.20.22.4.49"/>

        <templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2015-08-01"/>

        <id root="2.16.840.1.113883.3.2054.2.1" extension="20150624-1288888880" assigningAuthorityName="Surescripts"/>

        <code code="AMB" codeSystem="2.16.840.1.113883.5.4" displayName="Ambulatory">

            <originalText>Patient Interaction</originalText>

        </code>

        <text>

            <reference value="#encounter3"/>

        </text>

        <effectiveTime value="20150624"/>

        <performer typeCode="PRF">

            <time>

                <low nullFlavor="UNK"/>

                <high nullFlavor="UNK"/>

            </time>

            <assignedEntity classCode="ASSIGNED">

                <id root="2.16.840.1.113883.4.6" extension="1288888880"/>

                <addr>

                    <streetAddressLine>78 Potter Way</streetAddressLine>

                    <city>Suffton</city>

                    <state>GA</state>

                    <postalCode>25856</postalCode>

```

```

        <country>US</country>

    </addr>

    <telecom value="tel:+1-(706)777-2222" use="WP"/>

    <assignedPerson>

        <name>

            <given>Mary</given>

            <family>Turner</family>

        </name>

    </assignedPerson>

</assignedEntity>

</performer>

<participant typeCode="LOC">

    <participantRole classCode="SDLOC">

        <id root="2.16.840.1.113883.10.20.22.4.32"/>

        <code code="207QA0505X" codeSystem="2.16.840.1.113883.6.101" codeSystemName="Health Care Provider Taxonomy" disp

            <originalText>Adult Medicine</originalText>

        </code>

    <addr>

        <streetAddressLine>78 Potter Way</streetAddressLine>

        <city>Suffton</city>

        <state>GA</state>

        <postalCode>25856</postalCode>

        <country>US</country>

    </addr>

    <telecom value="tel:+1-(706)777-2222" use="WP"/>

    <playingEntity classCode="PLC">

        <name>Turner Health Care</name>

    </playingEntity>

</participantRole>

</participant>

```

```

    </encounter>

</entry>

<entry>

  <encounter classCode="ENC" moodCode="EVN">

    <templateId root="2.16.840.1.113883.10.20.22.4.49"/>

    <templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2015-08-01"/>

    <id root="2.16.840.1.113883.3.2054.2.1" extension="20150130-122222220" assigningAuthorityName="Surescripts"/>

    <code code="AMB" codeSystem="2.16.840.1.113883.5.4" displayName="Ambulatory">

      <originalText>Patient Interaction</originalText>

    </code>

    <text>

      <reference value="#encounter4"/>

    </text>

    <effectiveTime value="20150130"/>

    <performer typeCode="PRF">

      <time>

        <low nullFlavor="UNK"/>

        <high nullFlavor="UNK"/>

      </time>

      <assignedEntity classCode="ASSIGNED">

        <id root="2.16.840.1.113883.4.6" extension="122222220"/>

        <addr>

          <streetAddressLine>4350 Dewey Ave</streetAddressLine>

          <streetAddressLine>Ste 72</streetAddressLine>

          <city>Omaha</city>

          <state>NE</state>

          <postalCode>681051017</postalCode>

          <country>US</country>

        </addr>

```

```

    <telecom value="tel:+1-(402)444-3333x2305" use="WP"/>

    <assignedPerson>

      <name>

        <given>Gloria</given>

        <family>Young</family>

        <suffix qualifier="AC">MD</suffix>

      </name>

    </assignedPerson>

  </assignedEntity>

</performer>

<participant typeCode="LOC">

  <participantRole classCode="SDLOC">

    <id root="2.16.840.1.113883.10.20.22.4.32"/>

    <code code="207RC0000X" codeSystem="2.16.840.1.113883.6.101" codeSystemName="Health Care Provider Taxonomy" display="Cardiovascular Disease" />

    <originalText>Cardiovascular Disease</originalText>

  </code>

  <addr>

    <streetAddressLine>4350 Dewey Ave</streetAddressLine>

    <streetAddressLine>Ste 72</streetAddressLine>

    <city>Omaha</city>

    <state>NE</state>

    <postalCode>681051017</postalCode>

    <country>US</country>

  </addr>

  <telecom value="tel:+1-(402)444-3333x2305" use="WP"/>

  <playingEntity classCode="PLC">

    <name>Gloria Young</name>

  </playingEntity>

</participantRole>

</participant>

```

```

    </encounter>

</entry>

<entry>

  <encounter classCode="ENC" moodCode="EVN">

    <templateId root="2.16.840.1.113883.10.20.22.4.49"/>

    <templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2015-08-01"/>

    <id root="2.16.840.1.113883.3.2054.2.1" extension="20141130-1288888880" assigningAuthorityName="Surescripts"/>

    <code code="AMB" codeSystem="2.16.840.1.113883.5.4" displayName="Ambulatory">

      <originalText>Patient Interaction</originalText>

    </code>

    <text>

      <reference value="#encounter5"/>

    </text>

    <effectiveTime value="20141130"/>

    <performer typeCode="PRF">

      <time>

        <low nullFlavor="UNK"/>

        <high nullFlavor="UNK"/>

      </time>

      <assignedEntity classCode="ASSIGNED">

        <id root="2.16.840.1.113883.4.6" extension="1288888880"/>

        <addr>

          <streetAddressLine>78 Potter Way</streetAddressLine>

          <city>Suffton</city>

          <state>GA</state>

          <postalCode>25856</postalCode>

          <country>US</country>

        </addr>

        <telecom value="tel:+1-(706)777-2222" use="WP"/>

```

```

    <assignedPerson>

      <name>

        <given>Mary</given>

        <family>Turner</family>

      </name>

    </assignedPerson>

  </assignedEntity>

</performer>

<participant typeCode="LOC">

  <participantRole classCode="SDLOC">

    <id root="2.16.840.1.113883.10.20.22.4.32"/>

    <code code="207QA0505X" codeSystem="2.16.840.1.113883.6.101" codeSystemName="Health Care Provider Taxonomy" disp

      <originalText>Adult Medicine</originalText>

    </code>

    <addr>

      <streetAddressLine>78 Potter Way</streetAddressLine>

      <city>Suffton</city>

      <state>GA</state>

      <postalCode>25856</postalCode>

      <country>US</country>

    </addr>

    <telecom value="tel:+1-(706)777-2222" use="WP"/>

    <playingEntity classCode="PLC">

      <name>Turner Health Care</name>

    </playingEntity>

  </participantRole>

</participant>

</encounter>

</entry>

<entry>

```

```

<encounter classCode="ENC" moodCode="EVN">

  <templateId root="2.16.840.1.113883.10.20.22.4.49"/>

  <templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2015-08-01"/>

  <id root="2.16.840.1.113883.3.2054.2.1" extension="20140514-1244444448" assigningAuthorityName="Surescripts"/>

  <code code="AMB" codeSystem="2.16.840.1.113883.5.4" displayName="Ambulatory">

    <originalText>Patient Interaction</originalText>

  </code>

  <text>

    <reference value="#encounter6"/>

  </text>

  <effectiveTime value="20140514"/>

  <performer typeCode="PRF">

    <time>

      <low nullFlavor="UNK"/>

      <high nullFlavor="UNK"/>

    </time>

    <assignedEntity classCode="ASSIGNED">

      <id root="2.16.840.1.113883.4.6" extension="1244444448"/>

      <addr>

        <streetAddressLine>649 S 42nd St</streetAddressLine>

        <city>Omaha</city>

        <state>NE</state>

        <postalCode>681981002</postalCode>

        <country>US</country>

      </addr>

      <telecom value="tel:+1-(402)644-9988" use="WP"/>

    </assignedEntity>

  </performer>

  <participant typeCode="LOC">

```

```

<participantRole classCode="SDLOC">

  <id root="2.16.840.1.113883.10.20.22.4.32"/>

  <code code="207R00000X" codeSystem="2.16.840.1.113883.6.101" codeSystemName="Health Care Provider Taxonomy" disp

    <originalText>Internal Medicine</originalText>

  </code>

  <addr>

    <streetAddressLine>649 S 42nd St</streetAddressLine>

    <city>Omaha</city>

    <state>NE</state>

    <postalCode>681981002</postalCode>

    <country>US</country>

  </addr>

  <telecom value="tel:+1-(402)644-9988" use="WP"/>

  <playingEntity classCode="PLC">

    <name>Center For Health North Clinic</name>

  </playingEntity>

</participantRole>

</participant>

</encounter>

```

The graphic below is an example of a Surescripts XHTML-rendered version of the elements included in the Surescripts Location Summary CDA.

Surescripts Location Summary

Patient Date of birth Contact info	ROMAN LITTLE June 1, 1961 5E GOLD SPIKE RD ULTA, NV 95632, US	Sex Patient IDs	Male 6509781 2.16.840.1.113883.3.2054.2.1
Document Id Document Created:	2.16.840.1.113883.3.2054.2.1.53008131 2.16.840.1.113883.3.2054.2.1 December 19, 2016, 20:30:04		
Author Contact info	Surescripts RLE 920 2nd Avenue South Suite 400 Minneapolis, MN 55402, US		
Document maintained by Contact info	Surescripts 920 2nd Avenue South Suite 400 Minneapolis, MN 55402, US		

Surescripts Location Summary

The following is a list of possible locations where this patient may have records.

Date	Organization Name	Last Name	First Name	Suffix	Specialty	Address	City	State	Zip	Phone	Provider NPI
06/18/2016	Ajit Medical Center	Jones	Jennifer		Nuclear Cardiology	4940 Excelsior Ave	Suffton	GA	25856	(706) 455-2345	1287373835
07/15/2015	Highland Clinic					414 Cleveland Avenue	Suffton	GA	25856	(706) 644-5555	1233333339
06/24/2015	Turner Health Care	Turner	Mary		Adult Medicine	78 Potter Way	Suffton	GA	25856	(706) 777-2222	1288888880
01/30/2015		Young	Gloria	MD	Cardiovascular Disease	4350 Dewey Ave Ste 72	Omaha	NE	68105-1017	(402) 444-3333 x 2305	1222222220
11/30/2014	Turner Health Care	Turner	Mary		Adult Medicine	78 Potter Way	Suffton	GA	25856	(706) 777-2222	1288888880
05/14/2014	Center For Health North Clinic				Internal Medicine	649 S 42nd St	Omaha	NE	68198-1002	(402) 644-9988	1244444448

6. Error Scenarios and Conditions

Error Scenarios with Sample Message

Trans action(s)	Scenario	Error Message
All	Certificate Subject or Issuer is not configured within Surescripts or was not sent with the transaction. -Admin Console logs incoming values to check for typos in configuration.	AuthenticationDataInvalid - Invalid Authentication Credentials
All	Certificate Subject or Issuer is not configured within Surescripts or was not sent with the transaction. -Admin Console logs incoming values to check for typos in configuration.	AuthenticationDataMissing - Invalid authentication info in the header
All	Maximum length exceeded.	Message Id must be 255 characters or fewer
All	The Organization ID from the subject of the transaction is not configured for this transaction in the Surescripts system.	Organization Id XXXXXX not authorized for this transaction
All	Transaction sent to RLE was not syntactically valid.	Receiver - Part {urn:ihe:iti:xcpd:2009}Body should be of type org.hl7.v3.PRPAI201306UV02, not org.apache.cxf.binding.soap.SoapFault
All	Message was sent to the Surescripts endpoint configured for communication between two Carequality members, not RLE. However, no responder info was included in the URL. - Check the Carequality directory to verify the correct URL for a specific Carequality responder. - RLE customers should use the Surescripts RLE URL	Responder Id missing from request URL
All	Transaction sent to RLE was not syntactically valid.	Surescripts RLE has encountered an error processing the message. Cannot invoke method getAt() on null object
All	Surescripts account, portal, and RLS Auth configuration of the Organization ID from the incoming transaction does not authorize processing for this transaction.	Unauthorized - Organization Id 1.2.3454 not authorized for this account
All	Incoming message is not valid or there is an issue internal to the Surescripts system. Review transactions in Surescripts Admin Console to see details. If the problem persists, submit a support case.	Unexpected Exception occurred please contact technical support or There was an unexpected error processing the message
All	Attempt to send a message directly to a specific Carequality responder through Surescripts failed. Invalid URL / endpoint was used.	Unknown responder 'XXXXXX' specified in request URL
All	Transaction sent to RLE was not syntactically valid	Unmarshalling Error: Unexpected character '>' (code nn) in content after '<' (malformed start element?). at [row,col]: [nnn,nn]

Transaction(s)	Scenario	Error Message
All	Surescripts requires the Home Community ID of the sender to be sent in the subject organization is for each incoming transaction.	Required organization id (IHE-ID) not included in SAML on incoming message
All	The subject organization id on the incoming transaction is not configured on a data provider in the Surescripts system.	No routable entity configured with IHE-ID = organization id 'n.n.nnn.nnnn'
All	The configuration of the organization id listed is not consistent. The data provider portal and the RLS_AUTH table portal are not in the same account hierarchy.	Portal 'nnnn' for IHE-ID 'n.n.nnnn' does not match portal 'yyyy' from RLS_AUTH
All	An invalid SOAP message is submitted.	Exception occurred: InvalidSoapMessage element
All	Issues with connectivity configuration, certificates, and mutual TLS may occur on initial transactions. Review details of errors in Surescripts Admin Console and work with your Surescripts contact, if needed, to correct.	403: Forbidden 404: Not Found 406: Not Acceptable certificate check=invalidvalue HTTP error code: 500 Connection refused PortalId:nnnnn with URL:http://xxxxx
All	Certificate mapping rule missing on the receiving system.	401: Unauthorized
XCPD	Invalid date of birth format.	Birth date needs to be formatted CCYYMMDD
XCPD	Maximum length exceeded.	First name must be 255 or fewer characters
XCPD	Maximum length exceeded.	Last name must be 255 or fewer characters
XCPD	Maximum length exceeded.	Middle name must be 255 or fewer characters
XCPD	Maximum length exceeded.	Suffix must be 50 or few characters
XCPD	Invalid gender code submitted.	Only M, F, UN administrative gender codes are accepted
XCPD	Address line 1 too long.	Address line 1 larger than accepted (120 maximum length)
XCPD	Address line 2 too long.	Address line 2 larger than accepted (120 maximum length)
XCPD	City too long.	City larger than accepted (50 maximum length)
XCPD	Invalid state code submitted.	State larger than accepted (2 maximum length)
XCPD	Zip does not comply with US formats.	Only USA zip codes are accepted
XCPD	Attempt to send a message directly to a specific Carequality responder through Surescripts failed. The responder is not configured for XCPD from Surescripts system.	Responder Id 'XXXXXXX' not authorized for ReceiveXcpdQuery
XCPD	RLE application has encountered an internal error.	Internal Service Error

Transaction(s)	Scenario	Error Message
PLQ	PLQ requires a patient identifier.	A patient identifier extension (max length = 60 characters) must be entered
PLQ	The requested patient identifier is no longer valid in the Surescripts system. Retry XCPD. - Patient may have opted out - Vendor may no longer supply records through Surescripts - Invalid ID submitted	Not a Health Data Locator for the specified patient identifier.

7. Disclaimers

Guide Disclaimer

In the event that the customer chooses to make any software changes based upon recommendations in this guide, the customer acknowledges and agrees that Surescripts Network shall bear no responsibility or liability for the customer's changes or any effects thereof. The customer shall also be required to transition to the new guide at such time as said guide is published, which may involve different or additional parameters than are published in this guide.

Examples Disclaimer

Examples provided throughout this guide are not intended to be all-inclusive. This pertains to example workflows, element-specific (field) examples, or message examples. Participants should not restrict coding to the examples used herein.

When developing, this guide should be used along with additional documentation referenced and applicable customary coding standards.

Copyright

Copyright© 2026 by Surescripts, LLC. All rights reserved.

This document and the information contained within are the intellectual property of Surescripts, LLC. While Surescripts encourages the sharing of this information for knowledge and learning purposes, unauthorized reproduction, distribution, or modification of this material is prohibited.

8. Document Change Log

▼ 2026-08-06

Sec. Title	Change Description
N/A	N/A - Developer portal - initial release