



eHealth Exchange™

## Provisional Test Cases

For eHealth Exchange Participant and Product Testing

## Provisional Test Cases

### 1 EHEALTH EXCHANGE TESTING PROGRAM OVERVIEW

The scope of the eHealth Exchange Testing program is limited to the [Specifications](#); the information outlined in the [Validation Plan](#) and related [Test Materials](#) adopted by the Coordinating Committee, collectively called “Performance and Service Specifications”.

Changes to the profiles, Specifications, Validation Plan and Test Materials may be made in accordance with the applicable change processes described in the DURSA.

The eHealth Exchange Testing program supports the following:

- Applicants who wish to join the eHealth Exchange as Participants;
- Existing eHealth Exchange Participants who wish to test new technology or retest as a condition of continued participation in the eHealth Exchange; and
- Vendors who wish to have their product(s) validated as eHealth Exchange compliant.  
The eHealth Exchange Testing Program verifies that a System both complies with the eHealth Exchange specifications and has the ability to interoperate with other eHealth Exchange Participant Systems.

The abbreviation of System Under Test (SUT) will be used to describe the role of the testing organization in the following test cases. The summary of test cases related to the Security Tests can be found below:

*Table 1: Security Test Summary*

SUT	Description	Specifications	Summary of Test Cases	Test Method
Participant	Transmitting clinical documentation to support treatment of an individual, care coordination or transitions of care	2011 version of the following: <ul style="list-style-type: none"><li>• Messaging Platform</li><li>• Authorization Framework</li></ul>	Security Tests (2011) 19 Required Security Tests	Run tests against the Sequoia Project Testing environment
Product Vendor		2011 version of the following: <ul style="list-style-type: none"><li>• Messaging Platform</li><li>• Authorization Framework</li></ul>	Security Tests (2011) 35 Required Security Tests	Results validated by the Sequoia Project



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These test cases are currently in effect and are required for organizations wishing to onboard to the eHealth Exchange Health Information Network (HIN) and use a System supporting the 2011 specifications.

For more details: <https://ehealthexchange.org/testing-program/testing-references/>

These materials reflect the following:

- [Change Log](#) - The Official eHealth Exchange Specifications page lists, near the top, the Official Technical Errata and Change Log. This is the single authoritative source for changes to the Testing program, or specifications.
- [Product Testing Overview](#) - List of documents for the required and provisional eHealth Exchange Product Testing Program. Includes the applications required and listing of all product test cases, documentation, provisional tests, conformity assessment checklists, Testing data load set and documents, and a description of content tests.
- [Participant Testing Overview](#) - A broad overview of the process, applications and documentation for the Participant Testing Program. List of all participant test cases, documentation, provisional tests, conformity assessment checklists, Testing data load sets and documents and a description of content tests for the current eHealth Exchange Participant Testing Program
- [Test Data Load Set](#) – Required data and associated document files to execute the test cases. This document contains the information required to execute the test cases within the Sequoia Testing environment including patient demographics, document metadata, as well as the mapping of the documents to the patients. The data must be loaded into the SUT exactly as prescribed in the spreadsheet and all attributes must be loaded (unless the attribute is an optional element and it is not supported by the SUT).

The eHealth Exchange also has a Content Testing Program, which is not covered by this document. For an overview of the [Content Testing Program](#), visit the Content Testing Program page on the eHealth Exchange website.



## Provisional Test Cases

## 2 PROVISIONAL TEST CASE LIST

**Table 2:** Provisional Test Case List

COUNT	TEST CASE ID	FUNCTIONAL AREA	PURPOSE/DESCRIPTION
1	<a href="#">TC:QD-I-3003.0</a>	Find Documents (advanced)	System finds documents with maximum possible parameters
2	<a href="#">TC: PD-R-0016.0</a>	General	System handles a missing required parameter
3	<a href="#">TC: QD-R-3140.0</a>	Find Documents	Find Documents with maximum possible parameters
4	<a href="#">TC: QD-R-3024.0</a>	Find Documents	Find Documents with class code
5	<a href="#">TC: QD-R-3202.0</a>	Find Documents	Find Documents with service start time from
6	<a href="#">TC: QD-R-3203.0</a>	Find Documents	Find Documents by author
7	<a href="#">TC: QD-R-3031.0</a>	Find Documents (advanced)	Find Documents with deprecated status
8	<a href="#">TC: QD-R-3222.0</a>	Find Documents	Find Documents: no results
9	<a href="#">TC: QD-R-3006.0</a>	Find Documents (advanced)	Find Documents: Unicode string normalization
10	<a href="#">TC: QD-R-3026.0</a>	Find Documents	Find Documents with both creation time parameters
11	<a href="#">TC: QD-R-3127.0</a>	Find Documents	Find Documents with creation time from
12	<a href="#">TC: QD-R-3128.0</a>	Find Documents	Find Documents with creation time to

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13	<a href="#">TC: QD-R-3028.0</a>	Find Documents	Find Documents with healthcare facility type
14	<a href="#">TC: QD-R-3029.0</a>	Find Documents	Find Documents with event code
15	<a href="#">TC: QD-R-3030.0</a>	Find Documents	Find Documents with format code
16	<a href="#">TC: MAQD-R-0003.102</a>	SOAP Security	Testing Tool sends a simple QD Request to the System with an Expired Security/Timestamp
17	<a href="#">TC: MAQD-R-0003.103</a>	SOAP Security	Testing Tool sends a simple QD Request to the System with a Security/Timestamp in the future
18	<a href="#">TC: MAQD-R-0003.304</a>	XML Signature	Testing Tool sends a simple QD Request to the System with an invalid timestamp signature
19	<a href="#">TC: MAQD-R-0003.305</a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo element
20	<a href="#">TC: MAQD-R-0003.309</a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo/ SignatureMethod/@algorithm attribute
21	<a href="#">TC: MAQD-R-0003.310</a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo/ Reference attribute
22	<a href="#">TC: MAQD-R-0003.311</a>	XML Signature	Testing Tool sends a simple QD Request to the System with an invalid Security/Signature/SignedInfo/ Reference/@URI attribute
23			Testing Tool sends a simple QD Request to the System with a Security/Signature/SignedInfo/

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	<a href="#"><u>TC: MAQD-R-0003.312</u></a>	XML Signature	Reference/Transforms that contains no Transform elements
24	<a href="#"><u>TC: MAQD-R-0003.313</u></a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo/ Reference/Transforms/Transform/@algorithm element
25	<a href="#"><u>TC: PD-R-0015.0</u></a>	General	System discovers patient using minimum requiredparameters
26	<a href="#"><u>TC: PD-R-0022.0</u></a>	General	System discovers the patient using all possible parameters and returns a match
27	<a href="#"><u>TC: PD-R-0033.0</u></a>	General	System finds and returns no match
28	<a href="#"><u>TC: PD-R-0018.0</u></a>	General	System discovers patient using address and phone number
29	<a href="#"><u>TC: PD-R-0020.0</u></a>	General	System discovers patient using SSN
30	<a href="#"><u>TC: PD-R-0026.0</u></a>	Multiple Assigning Authorities	System discovers patient and get matches from multiple assigning authorities
31	<a href="#"><u>TC: PD-R-0019.0</u></a>	Multiple instances of demographics	System discovers patient using multiple addresses and phone numbers; return patient with multiple (different) addresses and phone numbers
32	<a href="#"><u>TC: PD-R-0021.0</u></a>	General	System discovers patient using middle name and handles multiple LivingSubjectIDs
33	<a href="#"><u>TC: PD-R-0023.0</u></a>	Multiple instances of demographics	System discovers patient using multiple names
34	<a href="#"><u>TC: PD-R-0030.0</u></a>	Multiple instances of demographics	System returns patient with multiple names

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35	<a href="#">TC: RD-R-0215.0</a>	Retrieve Documents	Testing Tool initiates a synchronous Retrieve Documents request for multiple documents to System. System responds with the requested documents
36	<a href="#">TC: RD-R-0202.0</a>	Retrieve Documents	Handle an invalid DocumentUniqueId error
37	<a href="#">TC: MAQD-R-0003.314</a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo/Reference/DigestMethod element
38	<a href="#">TC: MAQD-R-0003.322</a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing KeyIdentifier element in timestamp signature
39	<a href="#">TC: MAQD-R-0003.327</a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing KeyValue in assertion signature
40	<a href="#">TC: MAQD-R-0003.328</a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing RSAKeyValue in assertion signature
41	<a href="#">TC: MAQD-R-0003.329</a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing RSAKeyValue/Modulus in assertion signature
42	<a href="#">TC: MAQD-R-0003.330</a>	XML Signature	Testing Tool sends a simple QD Request to the System with a missing RSAKeyValue/Exponent in assertion signature
43	<a href="#">TC: MAQD-R-0003.402</a>	SAML Assertion	Testing Tool sends a simple QD Request to the System with an invalid Version in Assertion

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44	<u>TC: MAQD-R-0003.403</u>	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing Version in Assertion
45	<u>TC: MAQD-R-0003.404</u>	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing ID in Assertion
46	<u>TC: MAQD-R-0003.405</u>	SAML Assertion	Testing Tool sends a simple QD Request to the System with an invalid ID in Assertion
47	<u>TC: MAQD-R-0003.406</u>	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing IssueInstant in Assertion
48	<u>TC: MAQD-R-0003.407</u>	SAML Assertion	Testing Tool sends a simple QD Request to the System with an invalid IssueInstant in Assertion
49	<u>TC: MAQD-R-0003.408</u>	SAML Assertion	Testing Tool sends a simple QD Request to the System with an IssueInstant in Assertion much later than Message Timestamp
50	<u>TC: MAQD-R-0003.409</u>	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing Issuer in Assertion
51	<u>TC: MAQD-R-0003.432</u>	SAML Assertion	Testing Tool sends a simple QD Request to the System with an invalid X.509 Certificate Public Key in Assertion
52	<u>TC: MAQD-R-0003.433</u>	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing X.509 Certificate element in Assertion

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### 3 PROVISIONAL TESTS

#### TC: QD-I-3003.0 – Query for Documents Initiating Gateway

Test Case ID:	TC: QD-I-3003.0
Title:	Find Documents by maximum possible parameters
SUT Role:	Initiator
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

System finds documents with maximum possible parameters.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000031

#### Test Steps

1. The System sends a synchronous Find Documents Request to the Testing Tool, using as many of the following parameters and class codes as the System has the ability to send:
  - SOAP Header = MP: MA Default Request (SUT) Message Parameters
  - \$XDSDocumentEntryPatientID= [P-000000031 PID]
  - \$XDSDocumentEntryStatus = Approved
  - \$XDSDocumentEntryClassCode = [code]^^[scheme] class code = 34133-9 class code scheme = 2.16.840.1.113883.6.1
  - \$XDSDocumentEntryTypeCode = [code]^^[scheme] type code = 34133-9 type code scheme = 2.16.840.1.113883.6.1

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- \$XDSDocumentEntryServiceStartTimeFrom = 20070315
- \$XDSDocumentEntryServiceStartTimeTo = 20070415
- \$XDSDocumentEntryServiceStopTimeFrom = 20070401
- \$XDSDocumentEntryServiceStopTimeTo = 20070415
- \$XDSDocumentEntryCreationTimeFrom = 20090513
- \$XDSDocumentEntryCreationTimeTo = 20090517
- \$XDSDocumentEntryPracticeSettingCode = [code]^^[scheme] practice setting code = 408478003 practice setting code scheme = 2.16.840.1.113883.6.96
- \$XDSDocumentEntryHealthcareFacilityTypeCode = [code]^^[scheme] healthcare facility type code = 36125001 healthcare facility type code scheme = 2.16.840.1.113883.6.96
- \$XDSDocumentEntryEventCodeList = [code]^^[scheme] event code list item= T-32000 event code item scheme = SNM3
- \$XDSDocumentEntryConfidentialityCode = [code]^^[scheme] confidentiality code = N confidentiality code scheme = 2.16.840.1.113883.5.25
- \$XDSDocumentEntryFormatCode = [code]^^[scheme] format code = urn:ihe:pcc:edr:2007 format code scheme = 2.16.840.1.113883.3.88.12.80.73  
OR
- \$XDSDocumentEntryFormatCode = [code]^^[scheme] format code = urn:ihe:pcc:xphr:2007 format code scheme = 2.16.840.1.113883.3.88.12.80.73
- \$XDSDocumentEntryAuthorPerson = [%H\_nt%']
- \$XDSDocumentType = [On-Demand OR Stable]
- returnType = LeafClass
- SOAP request = synchronous

*NOTE: The System may send fewer than the total number of parameters.*

2. The Testing Tool successfully processes the Request and returns a QD Response to the System that contains the following objects:

A 'Document Match' for D-000000031.1, D-000000031.2, D-000000031.4, D-000000031.6, D-000000031.10, D-000000031.12, D-000000031.14, D-000000031.16, D-000000031.18

**Commented [LB1]:** Test plan seems to be looking for D-000000018.1

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*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response. The HHMMSS section of the Document Entry Service Times and Document Entry Creation Times should not be part of that check.*

3. Verify conformance of the QD Request to the:
  - CL: QD Initiator Request Checklist
  - CL: QD Initiator FindDocuments Checklist
  - CL: MA SOAP Request Checklist

### Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0: 1:12 v2.0
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:PD-R-0016.0 - Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-0016.0
Title:	Handle missing required parameter
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

System handles a missing required parameter

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000210

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following minimum required parameters, with values taken from patient P-000000210:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters
  - LivingSubjectName
  - LivingSubjectAdministrativeGender
  - LivingSubjectBirthTime = (blank)
2. The System response to this scenario is not specified. Any one of these responses
  - . is acceptable:
    - SOAP fault (as per IHE TF-2b:3.55.4.2.3 Case 5)
    - detectedIssueManagement = AnswerNotAvailable (as per IHE TF-2b:3.55.4.2.2.7 table 3.55.4.4.2-5)  
Example:  
<detectedIssueEvent classCode="ALRT" moodCode="EVN">  
<code code="ActAdministrativeDetectedIssueCode"  
codeSystem="2.16.840.1.113883.5.4"/>  
<mitigatedBy typeCode="MITGT">  
    <detectedIssueManagement classCode="ACT" moodCode="EVN">  
        <code code="ResponderBusy"

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codeSystem="1.3.6.1.4.1.19376.1.2.27.  
3"/>

</detectedIssueManagement>  
</mitigatedBy>  
</detectedIssueEvent>

- no hl7:registrationEvent returned

## Referenced Specifications

2011 Exchange Specification	Patient Discovery v2.0: 3.1.5
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and  IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3140.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3140.0
Title:	Find Documents by maximum possible parameters
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find documents with maximum possible parameters

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000031

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (SUT) Message Parameters
- \$XDSDocumentEntryPatientID= [P-000000031 PID]
- \$XDSDocumentEntryStatus = Approved OR Deprecated
- \$XDSDocumentEntryClassCode = [code]^\*[scheme] class code = 34133-9 class code scheme = 2.16.840.1.113883.6.1

OR

- \$XDSDocumentEntryClassCode = [code]^\*[scheme] class code = 28634-4 class code scheme = 2.16.840.1.113883.6.1
- \$XDSDocumentEntryServiceStartTimeFrom = 20070315
- \$XDSDocumentEntryServiceStartTimeTo = 20070415
- \$XDSDocumentEntryServiceStopTimeFrom = 20070401
- \$XDSDocumentEntryServiceStopTimeTo = 20070415
- \$XDSDocumentEntryCreationTimeFrom = 20090513
- \$XDSDocumentEntryCreationTimeTo = 20090517

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- \$XDSDocumentEntryPracticeSettingCode = [code]^^[scheme] practice setting code = 408478003 practice setting code scheme = 2.16.840.1.113883.6.96

OR

- \$XDSDocumentEntryPracticeSettingCode = [code]^^[scheme] practice setting code = 394581000 practice setting code scheme = 2.16.840.1.113883.6.96
- \$XDSDocumentEntryHealthcareFacilityTypeCode = [code]^^[scheme] healthcare facility type code = 36125001 healthcare facility type code scheme = 2.16.840.1.113883.6.96

OR

- \$XDSDocumentEntryHealthcareFacilityTypeCode = [code]^^[scheme] healthcare facility type code = 73770003 healthcare facility type code scheme = 2.16.840.1.113883.6.96
- \$XDSDocumentEntryEventCodeList = [code]^^[scheme] event code list code = T-32000 event code list code scheme = SNM3

OR

- \$XDSDocumentEntryEventCodeList = [code]^^[scheme] event code list code = T-32001 event code item scheme = SNM3
- \$XDSDocumentEntryFormatCode = [code]^^[scheme] format code = urn:ihe:pcc:edr:2007 format code scheme = 2.16.840.1.113883.3.88.12.80.73

OR

- \$XDSDocumentEntryFormatCode = [code]^^[scheme] format code = urn:ihe:pcc:xphr:2007 format code scheme = 2.16.840.1.113883.3.88.12.80.73
- \$XDSDocumentEntryTypeCode = [code]^^[scheme] type code = 28619-5 type code scheme = 2.16.840.1.113883.6.1
- OR
- \$XDSDocumentEntryTypeCode = [code]^^[scheme] type code = 11486-8 type code scheme = 2.16.840.1.113883.6.1
- \$XDSDocumentEntryConfidentialityCode = [code]^^[scheme] confidentiality code = N confidentiality code scheme = 2.16.840.1.113883.5.25

OR

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- \$XDSDocumentEntryConfidentialityCode = [code]^^[scheme] confidentiality code = ETH confidentiality code scheme = 2.16.840.1.113883.5.25 returnType = LeafClass
- SOAP request = synchronous
- returnComposedObjects = true

2. The Testing Tool successfully processes the Request and returns a Response to the System that contains the following objects:

One document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueID = D-000000031.1

OR

(XDSDocumentEntry.patientID = [P-000000031 PID]

AND XDSDocumentEntry.authorPerson = [value from D-000000031.1])

-A match on: XDSDocumentEntry.status = [value from D-000000031.1]

-A match on: XDSDocumentEntry.classCode = [value from D-000000031.1]

-A match on: XDSDocumentEntry.serviceStartTime = [value from D-000000031.1]

-A match on: XDSDocumentEntry.serviceStopTime = [value from D-000000031.1]

-A match on: XDSDocumentEntry.creationTime = [value from D-000000031.1]

-A match on: XDSDocumentEntry.practiceSettingCode = [value from D-000000031.1]

-A match on: XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000031.1]

-A match on: XDSDocumentEntry.eventCodeList = [value from D-000000031.1]

-A match on: XDSDocumentEntry.formatCode = [value from D-000000031.1]

-A match on: XDSDocumentEntry.typeCode = [value from D-000000031.1]

-A match on: XDSDocumentEntry.confidentialityCode = [value from D-000000031.1]

**Commented [LB2]:** Test in XDS Tools is looking for one document with doc id D-000000200.1 instead of the 8 listed here.



```
graph TD; A(( )) --- B(( )); A --- C(( )); B --- D(( )); B --- E(( )); C --- F(( )); C --- G(( )); D --- H(( )); D --- I(( )); E --- J(( )); E --- K(( )); F --- L(( )); F --- M(( )); G --- N(( )); G --- O(( )); H --- P(( )); H --- Q(( )); I --- R(( )); I --- S(( )); J --- T(( )); J --- U(( )); K --- V(( )); K --- W(( )); L --- X(( )); L --- Y(( )); M --- Z(( )); M --- AA(( )); N --- BB(( )); N --- CC(( )); O --- DD(( )); O --- EE(( )); P --- FF(( )); P --- GG(( )); Q --- HH(( )); Q --- II(( )); R --- JJ(( )); R --- KK(( )); S --- LL(( )); S --- MM(( )); T --- OO(( )); T --- PP(( )); U --- QQ(( )); U --- RR(( )); V --- TT(( )); V --- YY(( )); W --- ZZ(( )); W --- AA(( )); X --- BB(( )); X --- CC(( )); Y --- DD(( )); Y --- EE(( )); Z --- FF(( )); Z --- GG(( )); AA --- HH(( )); AA --- KK(( )); BB --- LL(( )); BB --- MM(( )); CC --- OO(( )); CC --- PP(( )); DD --- QQ(( )); DD --- RR(( )); EE --- TT(( )); EE --- YY(( )); FF --- ZZ(( )); FF --- AA(( )); GG --- BB(( )); GG --- CC(( )); HH --- TT(( )); HH --- YY(( )); KK --- ZZ(( )); KK --- AA(( )); LL --- BB(( )); LL --- CC(( )); OO --- FF(( )); OO --- GG(( )); PP --- TT(( )); PP --- YY(( )); QQ --- ZZ(( )); QQ --- AA(( )); RR --- BB(( )); RR --- CC(( )); TT --- FF(( )); TT --- YY(( )); YY --- ZZ(( )); YY --- AA(( )); ZZ --- BB(( )); ZZ --- CC(( )); AA --- HH(( )); AA --- KK(( )); BB --- LL(( )); BB --- MM(( )); CC --- OO(( )); CC --- PP(( )); DD --- QQ(( )); DD --- RR(( )); EE --- TT(( )); EE --- YY(( )); FF --- ZZ(( )); FF --- AA(( )); GG --- BB(( )); GG --- CC(( )); HH --- TT(( )); HH --- YY(( )); KK --- ZZ(( )); KK --- AA(( )); LL --- BB(( )); LL --- CC(( )); OO --- FF(( )); OO --- GG(( )); PP --- TT(( )); PP --- YY(( )); QQ --- ZZ(( )); QQ --- AA(( )); RR --- BB(( )); RR --- CC(( )); TT --- FF(( )); TT --- YY(( )); YY --- ZZ(( )); YY --- AA(( )); ZZ --- BB(( )); ZZ --- CC(( ));
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Another document with:

- A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000031.2
- OR
- (XDSDocumentEntry.patientID = [P-000000031 PID]
- AND XDSDocumentEntry.authorPerson = [value from D-000000031.2])
- A match on: XDSDocumentEntry.status = [value from D-000000031.2]
- A match on: XDSDocumentEntry.classCode = [value from D-000000031.2]
- A match on: XDSDocumentEntry.serviceStartTime = [value from D-000000031.2]
- A match on: XDSDocumentEntry.serviceStopTime = [value from D-000000031.2]
- A match on: XDSDocumentEntry.creationTime = [value from D-000000031.2]
- A match on: XDSDocumentEntry.practiceSettingCode = [value from D-000000031.2]
- A match on: XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000031.2]
- A match on: XDSDocumentEntry.eventCodeList = [value from D-000000031.2]
- A match on: XDSDocumentEntry.formatCode = [value from D-000000031.2]
- A match on: XDSDocumentEntry.typeCode = [value from D-000000031.2]
- A match on: XDSDocumentEntry.confidentialityCode = [value from D-000000031.2]

Another document with:

- A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000031.6
- OR
- (XDSDocumentEntry.patientID = [P-000000031 PID]
- AND

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XDSDocumentEntry.authorPerson = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.status = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.classCode = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.serviceStartTime = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.serviceStopTime = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.creationTime = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.practiceSettingCode = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.eventCodeList = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.formatCode = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.typeCode = [value from D-000000031.6]  
-A match on: XDSDocumentEntry.confidentialityCode = [value from D-000000031.6]  
Another document with:  
-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000031.10  
OR  
(XDSDocumentEntry.patientID = [P-000000031 PID]  
AND  
XDSDocumentEntry.authorPerson = [value from D-000000031.10])  
-A match on: XDSDocumentEntry.status = [value from D-000000031.10]  
-A match on: XDSDocumentEntry.classCode = [value from D-000000031.10]  
-A match on: XDSDocumentEntry.serviceStartTime = [value from D-000000031.10]  
-A match on: XDSDocumentEntry.serviceStopTime = [value from D-000000031.10]

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- A match on: XDSDocumentEntry.creationTime = [value from D-000000031.10]
- A match on: XDSDocumentEntry.practiceSettingCode = [value from D-000000031.10]
- A match on: XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000031.10]
- A match on: XDSDocumentEntry.eventCodeList = [value from D-000000031.10]
- A match on: XDSDocumentEntry.formatCode = [value from D-000000031.10]
- A match on: XDSDocumentEntry.typeCode = [value from D-000000031.10]
- A match on: XDSDocumentEntry.confidentialityCode = [value from D-000000031.1]

Another document with:

- A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000031.12
- OR
- (XDSDocumentEntry.patientID = [P-000000031 PID])
- AND
- XDSDocumentEntry.authorPerson = [value from D-000000031.12])
- A match on: XDSDocumentEntry.status = [value from D-000000031.12]
- A match on: XDSDocumentEntry.classCode = [value from D-000000031.12]
- A match on: XDSDocumentEntry.serviceStartTime = [value from D-000000031.12]
- A match on: XDSDocumentEntry.serviceStopTime = [value from D-000000031.12]
- A match on: XDSDocumentEntry.creationTime = [value from D-000000031.12]
- A match on: XDSDocumentEntry.practiceSettingCode = [value from D-000000031.12]
- A match on: XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000031.12]



## Provisional Test Cases

- A match on: XDSDocumentEntry.eventCodeList = [value from D-000000031.12]
- A match on: XDSDocumentEntry.formatCode = [value from D-000000031.12]
- A match on: XDSDocumentEntry.typeCode = [value from D-000000031.12]
- A match on: XDSDocumentEntry.confidentialityCode = [value from D-000000031.12]
- Another document with:
  - A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000031.14
  - OR (XDSDocumentEntry.patientID = [P-000000031 PID]
    - AND XDSDocumentEntry.authorPerson = [value from D-000000031.14])
  - A match on: XDSDocumentEntry.status = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.classCode = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.serviceStartTime = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.serviceStopTime = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.creationTime = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.practiceSettingCode = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.eventCodeList = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.formatCode = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.typeCode = [value from D-000000031.14]
  - A match on: XDSDocumentEntry.confidentialityCode = [value from D-000000031.14]

Another document with:

- A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000031.16



## Provisional Test Cases

```
OR (XDSDocumentEntry.patientID = [P-000000031 PID]  
AND XDSDocumentEntry.authorPerson = [value from D-000000031.16])  
-A match on: XDSDocumentEntry.status = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.classCode = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.serviceStartTime = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.serviceStopTime = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.creationTime = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.practiceSettingCode = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.eventCodeList = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.formatCode = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.typeCode = [value from D-000000031.16]  
-A match on: XDSDocumentEntry.confidentialityCode = [value from D-000000031.16]
```

Another document with:

```
-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000031.18  
OR (XDSDocumentEntry.patientID = [P-000000031 PID]  
AND XDSDocumentEntry.authorPerson = [value from D-000000031.18])  
-A match on: XDSDocumentEntry.status = [value from D-000000031.18]  
-A match on: XDSDocumentEntry.classCode = [value from D-000000031.18]  
-A match on: XDSDocumentEntry.serviceStartTime = [value from D-000000031.18]  
-A match on: XDSDocumentEntry.serviceStopTime = [value from D-000000031.18]
```

## Provisional Test Cases

- A match on: XDSDocumentEntry.creationTime = [value from D-000000031.18]
- A match on: XDSDocumentEntry.practiceSettingCode = [value from D-000000031.18]
- A match on: XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000031.18]
- A match on: XDSDocumentEntry.eventCodeList = [value from D-000000031.18]
- A match on: XDSDocumentEntry.formatCode = [value from D-000000031.18]
- A match on: XDSDocumentEntry.typeCode = [value from D-000000031.18]
- A match on: XDSDocumentEntry.confidentialityCode = [value from D-000000031.18]

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response. The HHMMSS section of the Document Entry Service Times and Document Entry Creation Times.*

### 3. Verify conformance of the QD Response to the:

- CL: QD Responder Response Checklist
- CL: MA SOAP Request Checklist

#### Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0: 1.12
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3024.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3024.0
Title:	Find Documents by class code
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents with class code

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000007

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the SUT, using the following required parameters:
  - SOAP Header = [MP: MA Default Request \(TestTool\)](#) Message Parameters
  - \$XDSDocumentEntryPatientID = [P-000000007 PID]
  - \$XDSDocumentEntryStatus = Approved
  - \$XDSDocumentEntryClassName = [code]^^[scheme] class code = 34117-2 class code scheme = 2.16.840.1.113883.6.1
  - returnType = LeafClass
  - returnComposedObjects = true
2. The System successfully processes the Request and returns a Response to the Testing Tool that contains the following objects:

One document with:

  - A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000007.5 OR (XDSDocumentEntry.patientID = [P-000000007 PID]  
AND XDSDocumentEntry.authorPerson = [value from D-000000007.5])
  - A match on: XDSDocumentEntry.status = [value from D-000000007.5]

Commented [LB3]: Test tool is looking for doc uid D-000000200.10

## Provisional Test Cases

-A match on: XDSDocumentEntry.classCode = [value from D-000000007.5]

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response.*

### 3. Verify conformance of the QD Response to the:

- CL: QD Responder Response Checklist
- CL:MA SOAP Response Checklist

#### Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0:1.12
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3202.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3202.0
Title:	Find Documents by service start time
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find documents with service start time from

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000008

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000008 PID]
- \$XDSDocumentEntryStatus=Approved
- \$XDSDocumentEntryServiceStartTimeFrom = 20070316
- returnType = LeafClass
- returnComposedObjects = true

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

One document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000008.6 OR  
(\$XDSDocumentEntry.patientID = [P-000000008 PID]  
AND XDSDocumentEntry.authorPerson = [value from D-000000008.6])  
-A match on: XDSDocumentEntry.status = [value from D-000000008.6]

Commented [LB4]: Test tool is looking for one document with doc id D-000000200.10

Commented [LB5R4]: Doc ID fixed but Test tool only looks for one document

## Provisional Test Cases

-A match on: XDSDocumentEntry.serviceStart = [value from D-00000008.6]

Another document with:

- A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-00000008.8 OR (XDSDocumentEntry.patientID = [P-00000008 PID]  
AND XDSDocumentEntry.authorPerson = [value from D-00000008.8])
- A match on: XDSDocumentEntry.status = [value from D-00000008.8]
- A match on: XDSDocumentEntry.serviceStart = [value from D-00000008.8]

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response. The HHMMSS section of the Document Entry Service Start Time should not be part of that check.*

### 3. Verify conformance of the QD Response to the:

- CL: QD Response Responder Checklist
- CL: MA SOAP Request Checklist

#### Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0:1.12
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and  IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3203.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3203.0
Title:	Find documents by author
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find documents by author

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000026

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request using the following required parameters:
  - SOAP Header = [MP: MA Default Request \(TestTool\)](#) Message Parameters
  - \$XDSDocumentEntryPatientID = [P-000000026 PID]
  - \$XDSDocumentEntryStatus = Approved
  - \$XDSDocumentEntryAuthorPerson = ^Hunter^Adam^^
  - returnType = LeafClass
  - returnComposedObjects=true
2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

One document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.UniqueId = D-000000026.1 OR  
(XDSDocumentEntry.patientID = [P-000000026 PID]  
AND XDSDocumentEntry.authorPerson = [value from D-000000026.1])  
-A match on: XDSDocumentEntry.status = [value from D-000000026.1]

## Provisional Test Cases

-A match on: XDSDocumentEntry.authorPerson = [value from D-000000026.1]

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response.*

### 3. Verify conformance of the QD Response to the:

- CL: QD Responder Response Checklist
- CL:MA SOAP Response Checklist

#### Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0: 1.13.2
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

**Commented [LB6]:** These are all documented differently across the tests and across the documents. Review for consistency

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3031.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3031.0
Title:	Find Documents by deprecated status
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents with deprecated status

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Data Notes: None for Dynamic document HIEs, must first persist the document and then change its status to deprecated

Test Case Patient Association: P-000000045

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000045 PID]
- \$XDSDocumentEntryStatus = Deprecated
- returnType = LeafClass
- SOAP request = synchronous

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

One document with:

-A 'DocumentMatch' of either: \$XDSDocumentEntry.UniqueId = D-000000045.2 OR  
(\$XDSDocumentEntry.PatientID = [P-000000045 PID] AND

## Provisional Test Cases

\$XDSDocumentEntry.AuthorPerson = [value from D-000000045.2]  
-A match on: \$XDSDocumentEntryStatus = [value from D-000000045.2]

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response.*

3. Verify conformance of the QD Response to the:
  - CL: QD Responder Response Checklist
  - CL:MA SOAP Response Checklist

## Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Query for Documents v3.0: .12
<a href="#">2011 Underlying Specification</a>	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: QD-R-3222.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3222.0
Title:	Find Documents: no results
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents: no results

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000012

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters
  - \$XDSDocumentEntryPatientID = [P-000000012 PID]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - returnComposedObjects=true
2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains: An empty list
3. Verify conformance of the QD Response to the:
  - CL: QD Responder Response Checklist
  - CL: MA SOAP Response Checklist



Provisional Test Cases

Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0: 1.4
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3006.0 – Query for Documents Responding Gateway

Test Case ID:	TC:QD-R-3006.0
Title:	Find Documents: Unicode string normalization
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents: Unicode string normalization

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000018

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000018 PID]
- \$XDSDocumentEntryStatus = Approved
- \$XDSDocumentEntryAuthorPerson = Michael Huntér (use the decomposed Unicode code points 0065+0301 for the accented e)
- returnType = leafClass
- returnComposedObjects=true

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

One document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000018.10 OR  
(XDSDocumentEntry.patientID = [P-000000018 PID])

## Provisional Test Cases

AND XDSDocumentEntry.authorPerson = [value from D-000000018.10]  
-A match on: XDSDocumentEntry.status = [value from D-000000018.10]  
-A match on: XDSDocumentEntry.authorPerson = [value from D-000000018.10]

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response.*

3. Verify conformance of the QD Response to the:
  - CL: QD Responder Response Checklist
  - CL: MA SOAP Response Checklist

## Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0: 1.4
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and  IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3026.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3026.0
Title:	Find Documents by both creation time parameters
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents with both creation time parameters

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000200

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000200 PID]
- \$XDSDocumentEntryStatus = Approved
- \$XDSDocumentEntryCreationTimeFrom = 20090514
- \$XDSDocumentEntryCreationTimeTo = 20090516
- returnType = LeafClass
- returnComposedObjects =true

*NOTE: various date formats are acceptable (see date/time format), and we are accepting partial use of date constraints as well: using only start time from/to, or using only stop time from/to.*

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

## Provisional Test Cases

One document with:

- A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000200.10 OR (XDSDocumentEntry.patientID = [P-000000200 PID]  
AND XDSDocumentEntry.authorPerson = [value from D-000000200.10])
- A match on: XDSDocumentEntry.status = [value from D-000000200.10]
- A match on: XDSDocumentEntry.creationTime = [value from D-000000200.10]

**Commented [LB7]:** Test plan does not check creation time

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response. The HHMMSS section of the Document Entry Creation Times should not be part of that check.*

3. Verify conformance of the QD Response to the:
  - CL: QD Responder Response Checklist
  - CL: MA SOAP Response Checklist

## Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Query for Documents v3.0:1.12
<a href="#">2011 Underlying Specification</a>	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and  IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3127.0 – Query for Documents

Test Case ID:	TC: QD-R-3127.0
Title:	Find Documents by creation time from
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents with creation time from

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000201

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000201 PID]
- \$XDSDocumentEntryStatus = Approved
- \$XDSDocumentEntryCreationTimeFrom =20090514141516
- returnType = LeafClass
- returnComposedObjects = true

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

One document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000201.10 OR  
(XDSDocumentEntry.patientID = [P-000000201 PID]  
AND XDSDocumentEntry.authorPerson = [value from D-000000201.10])

## Provisional Test Cases

- A match on: XDSDocumentEntry.status = [value from D-000000201.10]
- A match on: XDSDocumentEntry.creationTime = [value from D-000000201.10]
- Another document with:**
  - A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000201.11 OR (XDSDocumentEntry.patientID = [P-000000201 PID]  
AND XDSDocumentEntry.authorPerson = [value from D-000000201.11])
  - A match on: XDSDocumentEntry.status = [value from D-000000201.11]
  - A match on: XDSDocumentEntry.creationTime = [value from D-000000201.11]

**Commented [LB8]:** Test tool doesn't check creation time

**Commented [LB9]:** Test tool only looking for one document

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response. The HHMMSS section of the Document Entry Creation Time should not be part of that check.*

3. Verify conformance of the QD Response to the:
  - CL: QD Responder Response Checklist
  - CL: MA SOAP Response Checklist

## Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0:1.12
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and  IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3128.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3128.0
Title:	Find Documents by creation time to
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents with creation time to

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000202

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000202 PID]
- \$XDSDocumentEntryStatus = Approved
- \$XDSDocumentEntryCreationTimeTo =20090514111111
- returnType = LeafClass
- returnComposedObjects = true

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

One document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000202.1 OR (XDSDocumentEntry.patientID = [P-000000202 PID])

## Provisional Test Cases

AND XDSDocumentEntry.authorPerson = [value from D-000000202.1])

-A match on: XDSDocumentEntry.status = [value from D-000000202.1]

-A match on: XDSDocumentEntry.creationTime = [value from D-000000202.1]

\*\*\*without any child Slot, Classification, or ExternalIdentifier elements

### Another document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000202.19 OR (XDSDocumentEntry.patientID = [P-000000202 PID]

AND XDSDocumentEntry.authorPerson = [value from D-000000202.19])

-A match on: XDSDocumentEntry.status = [value from D-000000202.19]

-A match on: XDSDocumentEntry.creationTime = [value from D-000000202.19]

\*\*\*without any child Slot, Classification, or ExternalIdentifier elements

**Commented [LB10]:** Assertions for the second document aren't in the test plan

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response. The HHMMSS section of the Document Entry Creation Time should not be part of that check.*

### 3. Verify conformance of the QD Response to the:

- CL: QD Responder Response Checklist
- CL: MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0: 1.12
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)



Provisional Test Cases

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3028.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3028.0
Title:	Find Documents by healthcare facility type
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents with healthcare facility type

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000024

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000024 PID]
- \$XDSDocumentEntryStatus = Approved
- \$XDSDocumentEntryHealthcareFacilityTypeCode = [code]^^[scheme] healthcare facility type code = 36125001 healthcare facility type code scheme = 2.16.840.1.113883.6.96  
OR
- \$XDSDocumentEntryHealthcareFacilityTypeCode = [code]^^[scheme] healthcare facility type code = 73770003 healthcare facility type code scheme = 2.16.840.1.113883.6.96
- returnType = LeafClass
- returnComposedObjects = true

## Provisional Test Cases

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

One document with:

- A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000024.1 OR (XDSDocumentEntry.patientID = [P-000000024 PID] AND \$XDSDocumentEntry.authorPerson = [value from D-000000024.1])
- A match on: \$XDSDocumentEntry.status = [value from D-000000024.1]
- A match on: \$XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000024.1]

**Commented [LB11]:** Test plan is only looking for one document and doesn't check facility type code

Another document with:

- A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000024.4 OR (XDSDocumentEntry.patientID = [P-000000024 PID] AND XDSDocumentEntry.authorPerson = [value from D-000000024.4])
- A match on: XDSDocumentEntry.status = [value from D-000000024.4]
- A match on: XDSDocumentEntry.healthcareFacilityTypeCode = [value from D-000000024.4]

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response.*

3. Verify conformance of the QD response to the:

- CL: QD Responder Response Checklist
- CL: MA SOAP Response Checklist

## Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0: 1.12
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)



Provisional Test Cases

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: QD-R-3029.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3029.0
Title:	Find Documents with event code
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents with event code

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000017

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000017 PID]
- \$XDSDocumentEntryStatus = Approved OR Deprecated
- \$XDSDocumentEntryEventCodeList = [code]^^[scheme] event code list item = T-32000 event code item scheme = SNM3
- returnType = LeafClass
- returnComposedObjects = true

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

**Commented [LB12]:** Test plan only checks one document and doesn't check event code list

One document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000017.1 OR  
(XDSDocumentEntry.patientID = [P-000000017 PID])



## Provisional Test Cases

AND XDSDocumentEntry.authorPerson = [value from D-000000017.1]

-A match on: XDSDocumentEntry.status = [value from D-000000017.1]

-A match on: XDSDocumentEntry.eventCodeList = [value from D-000000017.1]

Another document with:

-A 'DocumentMatch' of either: \$XDSDocumentEntry.UniqueId = D-000000017.4 OR

(XDSDocumentEntry.patientID = [P-000000017 PID] AND

\$XDSDocumentEntry.AuthorPerson = [value from D-000000017.4])

-A match on: \$XDSDocumentEntryStatus = [value from D-000000017.4]

-A match on: \$XDSDocumentEntryEventCodeList = [value from D-000000017.4]

Another document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000017.12 OR

(XDSDocumentEntry.patientID = [P-000000017 PID]

AND XDSDocumentEntry.authorPerson = [value from D-000000017.12])

-A match on: XDSDocumentEntry.status = [value from D-000000017.12]

-A match on: XDSDocumentEntry.eventCodeList = [value from D-000000017.12]

Another document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000017.13 OR

(XDSDocumentEntry.patientID = [P-000000017 PID]

AND XDSDocumentEntry.authorPerson = [value from D-000000017.13])

-A match on: XDSDocumentEntry.status = [value from D-000000017.13]

- A match on: XDSDocumentEntry.eventCodeList = [value from D-000000017.13]

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response.*

3. Verify conformance of the QD Response to the:

- CL: QD Responder Response Checklist
- CL: MA SOAP Response Checklist

Referenced Specifications

2011 Exchange Specification

Query for Documents v3.0: 1.12



Provisional Test Cases

#### 2011 Underlying Specification

IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and

IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:QD-R-3030.0 – Query for Documents Responding Gateway

Test Case ID:	TC: QD-R-3030.0
Title:	Find Documents by format code
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Find Documents by format code

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000020

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000020 PID]
- \$XDSDocumentEntryStatus = Approved
- \$XDSDocumentEntryFormatCode = [code]^\*[scheme] format code = urn:ihe:pcc:edr:2007 format code scheme = 2.16.840.1.113883.3.88.12.80.73
- returnType = LeafClass
- returnComposedObjects = true

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains the following objects:

One document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000020.1 OR  
(XDSDocumentEntry.patientID = [P-000000020 PID])

Commented [LB13]: Test plan only checks one document, doesn't check format code

## Provisional Test Cases

AND XDSDocumentEntry.authorPerson = [value from D-000000020.1]

-A match on: XDSDocumentEntry.status = [value from D-000000020.1]

-A match on: XDSDocumentEntry.formatCode = [value from D-000000020.1]

Another document with:

-A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000020.4 OR  
(XDSDocumentEntry.patientID = [P-000000020 PID])

AND XDSDocumentEntry.authorPerson = [value from D-000000020.4])

-A match on: XDSDocumentEntry.status = [value from D-000000020.4]

-A match on: XDSDocumentEntry.formatCode = [value from D-000000020.4]

Another document with:

-A 'DocumentMatch' of either: \$XDSDocumentEntry.UniqueId = D-000000020.5 OR  
(XDSDocumentEntry.patientID = [P-000000020 PID])

AND XDSDocumentEntry.authorPerson = [value from D-000000020.5])

-A match on: XDSDocumentEntry.status = [value from D-000000020.5]

-A match on: XDSDocumentEntry.formatCode = [value from D-000000020.5]

*NOTE: The parameters that are part of the Request should be the minimum that's checked on the Response.*

### 3. Verify conformance of the QD Response to the:

- CL: QD Responder Response Checklist
- CL: MA SOAP Response Checklist

#### Referenced Specifications

2011 Exchange Specification	Query for Documents v3.0: 1.12
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-38 (Version 2010-08-10) and  IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

#### Change History

Date	Changes
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## Provisional Test Cases

July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

### TC: MAQD-R-003.102 – Security Test

Test Case ID:	TC: MAQD-R-0003.102
Title:	Handle expired Security/Timestamp
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the SUT with an expired Security/Timestamp

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Timestamp has an Expired date in the past.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.



Provisional Test Cases

OR

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:

- MP:MA Fault (Both) Message Parameters

OR

Verify conformance of the PD Response to the:

- CL:MA SOAP Response Checklist

Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0 Sec 3.2.2
2011 Underlying Specification	SOAP Message Security 1.1

Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-003.103 – Security Test

Test Case ID:	TC: MAQD-R-003.103
Title:	Handle Security/Timestamp created in future
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the SUT with a Security/Timestamp in the future.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Timestamp has a Created date more than 24 hours in the future.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

**Commented [LB14]:** Timestamp in the message sent by the GSS is not in the future.

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP:MA Fault (Both) Message Parameters
  - OR
  - Verify conformance of the PD Response to the:
    - CL:MA SOAP Response Checklist

## Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0 Sec 3.2.2
2011 Underlying Specification	SOAP Message Security 1.1

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: MAQD-R-0003.304 – Security Test

Test Case ID:	TC: MAQD-R-0003.304
Title:	Handle invalid timestamp signature
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with an invalid timestamp signature.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP Header element Security/Signature (for Timestamp) is incorrect. Specifically, the SignatureValue does not allow the signature to be verified.

Commented [LB15]: Timestamp in the SOAP header does not seem to be invalid.

\$XSDSDocumentEntryPatientID = [patient P-000000010]

\$XSDSDocumentEntryStatus = Approved

returnType = LeafClass

SOAP request = synchronous

2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.



Provisional Test Cases

OR

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:

- MP:MA Fault (Both) Message Parameters

OR

Verify conformance of the PD Response to the:

- CL:MA SOAP Response Checklist

#### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0 Sec 3.2.2
2011 Underlying Specification	

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: MAQD-R-0003.305 – Security Test

Test Case ID:	TC: MAQD-R-0003.305
Title:	Handle missing SignedInfo element in Timestamp signature
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing Security/Signature/SignedInfo element.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Signature/SignedInfo is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response to the:
  - MP:MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL:MA SOAP Response Checklist

## Referenced Specifications

<a href="#">2011 Exchange Specification</a>	
<a href="#">2011 Underlying Specification</a>	IHE ITI TF-2a:

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: MAQD-R-0003.309 – Security Test

Test Case ID:	TC: MAQD-R-0003.309
Title:	Handle missing SignatureMethod algorithm in Timestamp signature
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing Security/Signature/SignedInfo/SignatureMethod/@algorithm attribute.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element
  - Security/Signature/SignedInfo/SignatureMethod/@algorithm is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks

3. Verify conformance of the fault Response message to the:
  - MP:MA Fault (Both) Message Parameters
  - OR
  - Verify conformance of the PD Response to the:
    - CL:MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0 Sec 3.2.2
2011 Underlying Specification	

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.310 – Security Test

Test Case ID:	TC: MAQD-R-0003.310
Title:	Handle missing Reference element in Timestamp signature
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing Security/Signature/SignedInfo/Reference attribute

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element
  - Security/Signature/SignedInfo/Reference is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP:MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL:MA SOAP Response Checklist

## Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Authorization Framework 3.0 Sec 3.2.2
<a href="#">2011 Underlying Specification</a>	

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.311 – Security Test

Test Case ID:	TC: MAQD-R-0003.311
Title:	Handle invalid URI in Timestamp signature reference
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with an invalid Security/Signature/SignedInfo/Reference/@URI attribute.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Signature/SignedInfo/Reference is invalid: "#XXXXXX", which does not resolve to anything.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

### 3. Verify conformance of the fault Response message to the:

- MP: MA Fault (Both) Message Parameters

OR

#### Verify conformance of the PD Response to the:

- CL: MA SOAP Response Checklist

#### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0 Sec 3.2.2
2011 Underlying Specification	

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.312 – Security Test

Test Case ID:	TC: MAQD-R-0003.312
Title:	Handle missing Transform elements in Timestamp signature reference
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a Security/Signature/SignedInfo/Reference/Transforms that contains no Transform elements.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element  
Security/Signature/SignedInfo/Reference/Transforms contains no Transform elements.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

Commented [LB16]: Message sent by GSS contains valid values

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

### 3. Verify conformance of the fault Response message to the:

- MP:MA Fault (Both) Message Parameters

OR

### Verify conformance of the PD Response to the:

- CL:MA SOAP Response Checklist

#### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0 Sec 3.2.2
2011 Underlying Specification	

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.313 – Security Test

Test Case ID:	TC: MAQD-R-0003.313
Title:	Handle missing Transform algorithm in Timestamp signature reference
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing Security/Signature/SignedInfo/Reference/Transforms/Transform/@algorithm element.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Signature/SignedInfo/Reference/Transforms/Transform/@algorithm is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

### 3. Verify conformance of the fault Response message to the:

- MP:MA Fault (Both) Message Parameters
- OR

Verify conformance of the PD Response to the:

- CL:MA SOAP Response Checklist

#### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0 Sec 3.2.2
2011 Underlying Specification	

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: PD-R-0015.0 – Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-0015.0
Title:	Discover patient using minimum required parameters
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

SUT discovers patient using minimum required parameters

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000043

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following minimum required parameters, with values taken from patient P-000000043:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters LivingSubjectName
  - LivingSubjectAdministrativeGender
  - LivingSubjectBirthTime
2. The System returns a PD Response with a match for Patient P-000000043.

OR

The System returns the special error code that asks for additional demographics.

OR

The System returns a PD Response with no match.



Provisional Test Cases

OR

The System returns a PD Response with special error condition: "AnswerNotAvailable".

3. Verify conformance of the PD Response to the:
  - CL: PD Responder Response Checklist
  - CL:MA SOAP Response Checklist

#### Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Patient Discovery v2.0: 3.1.5
<a href="#">2011 Underlying Specification</a>	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: PD-R-0022.0 – Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-0022.0
Title:	Discover patient using all possible parameters
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Basic Success
Optionality:	Provisional

#### Purpose/Description

SUT discovers the patient using all possible parameters and returns a match.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000203

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with all the following required and optional query parameters, with values taken from patient P-000000203:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- LivingSubjectName

*NOTE: LivingSubjectName: contains 2 given names with middle name in the second <given> element*

- LivingSubjectAdministrativeGender
- LivingSubjectBirthTime
- LivingSubjectBirthPlaceAddress
- MothersMaidenName
- PatientAddress
- PatientTelecom

2. The System returns a PD Response with a match for Patient P-000000203.

## Provisional Test Cases

3. Verify conformance of the PD Response to the:
  - CL: PD Responder Response Checklist
  - CL:MA SOAP Response Checklist
  
4. Verify the SUT generates an audit message and that it conforms to the:
  - CL:PD Responder Audit Checklist

## Referenced Specifications

2011 Exchange Specification	Patient Discovery v2.0 3.1.5
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: PD-R-0033.0 – Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-00.33.0
Title:	Return no match
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

SUT finds and returns no match.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000199

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following minimum required parameters, with values taken from patient P-000000199:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters
  - LivingSubjectName
  - LivingSubjectAdministrativeGender
  - LivingSubjectBirthTime
2. The System returns a PD response with no RegistrationEvent
3. Verify conformance of the PD Responder to the:
  - CL: PD Resonder Response Checklist
  - CL:MA SOAP Response Checklist
4. Verify the SUT generates an audit message and that it conforms to the:

## Provisional Test Cases

- CL:PD Responder Audit Checklist

### Referenced Specifications

2011 Exchange Specification	Patient Discovery v2.0 3.1.5
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: PD-R-0018.0 – Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-0018.0
Title:	Discovery patient using address and phone number
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

SUT discovers patient using address and phone number

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000211

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following parameters, with values taken from patient P-000000211:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters
  - LivingSubjectName
  - LivingSubjectAdministrativeGender
  - LivingSubjectBirthTime
  - PatientAddress
  - PatientTelecom
2. The System returns a PD Response with a match for Patient P-000000211.

OR

The System returns the special error code that asks for additional demographics.

OR

## Provisional Test Cases

The System returns a PD Response with no match.

OR

The System returns a PD Response with special error condition: "AnswerNotAvailable".

3. Verify conformance of the PD Response to the:
  - CL: PD Responder Response Checklist
  - CL:MA SOAP Response Checklist
4. Verify the SUT generates an audit message and that it conforms to the:
  - CL:PD Responder Audit Checklist

## Referenced Specifications

2011 Exchange Specification	Patient Discovery v2.0: 3.1.5
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and  IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: PD-R-0020.0 – Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-0020.0
Title:	Discover patient using SSN
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

SUT discovers patient using SSN.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Data Notes: None

Test Case Patient Association: P-000000037

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following parameters, with values taken from patient P-000000037:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- LivingSubjectName
- LivingSubjectBirthTime
- LivingSubjectId

**Commented [LB17]:** Need to add this as a parameter in the test case.

*NOTE: In LivingSubjectId include SSN value taken from patient P-000000037*

2. The System returns a PD Response with a match for Patient P-000000037.

OR

The System returns the special error code that asks for additional demographics.



Provisional Test Cases

OR

The System returns a PD Response with no match.

OR

The System returns a PD Response with special error condition: "AnswerNotAvailable".

3. Verify conformance of the PD Response to the:
  - CL: PD Responder Response Checklist
  - CL:MA SOAP Response Checklist
4. Verify the SUT generates an audit message and that it conforms to the:
  - CL:PD Responder Audit Checklist

#### Referenced Specifications

2011 Exchange Specification	Patient Discovery v2.0: 3.1.5
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: PD-R-0026.0 – Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-0026.0
Title:	Discover patient and get matches from multiple assigning authorities
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

SUT discovers patient and gets matches from multiple assigning authorities.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000011

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following parameters, with values taken from patient P-000000011:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- LivingSubjectName

*NOTE: LivingSubjectName: contains 2 given names with middle name in the second <given> element*

- LivingSubjectAdministrativeGender
- LivingSubjectBirthTime
- LivingSubjectId

*NOTE: LivingSubjectId will include SSN value taken from patient P-000000011*

- LivingSubjectBirthPlaceAddress
- MothersMaidenName



### Provisional Test Cases

- PatientAddress
  - PatientTelecom
2. The System returns a PD Response with a match for Patient P-000000011 from two different Assigning Authorities.

OR

The System returns the special error code that asks for additional demographics.

OR

The System returns a PD Response with no match.

OR

The System returns a PD Response with special error condition: "AnswerNotAvailable".

3. Verify conformance of the PD Response to the:
- CL: PD Responder Response Checklist
  - CL:MA SOAP Response Checklist
4. Verify the SUT generates an audit message and that it conforms to the:
- CL: PD Responder Audit Checklist

#### Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Patient Discovery v2.0: 3.1.6
<a href="#">2011 Underlying Specification</a>	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)



Provisional Test Cases

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:PD-R-0019.0 – Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-0019.0
Title:	Discover patient using multiple addresses and phone numbers; return patient with multiple (different) addresses and phone numbers.
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

SUT discovers patient using multiple addresses and phone numbers; return patient with multiple (different) addresses and phone numbers.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000044

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following parameters, with values taken from patient P-000000044:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- LivingSubjectName
- LivingSubjectAdministrativeGender
- LivingSubjectBirthTime
- PatientAddress (values from Address 1 only)
- PatientTelecom (values from Home 1 only)

In addition, pass the following:

- PatientAddress:  
Street: 9512 Echo Glen Drive City: Las Vegas  
State: NV Zip:89107  
Country: USA)

## Provisional Test Cases

- PatientTelecom: +1-702-999-8647
- 2. The System returns a PD Response with a match for Patient P-000000044.

OR

The System returns the special error code that asks for additional demographics.

OR

The System returns a PD Response with no match.

OR

The System returns a PD Response with special error condition: "AnswerNotAvailable".

3. Verify conformance of the PD Response to the:
  - CL: PD Responder Response Checklist
  - CL:MA SOAP Response Checklist
4. Verify the SUT generates an audit message and that it conforms to the:
  - CL: PD Responder Audit Checklist

## Referenced Specifications

2011 Exchange Specification	Patient Discovery v2.0: 3.1.5
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

## Change History

Date	Changes
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Provisional Test Cases

July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:PD-R-0021.0 – Patient Discovery Responding Gateway

<b>Test Case ID:</b>	TC: PD-R-0021.0
Title:	Discover patient using middle name; handle multiple LivingSubjectIDs
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

SUT discovers patient using middle name and handles multiple LivingSubjectIDs.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000019

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following parameters, with values taken from patient P-000000019:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- LivingSubjectName

*NOTE: LivingSubjectName: contains 2 given names with middle name in the second <given> element*

- LivingSubjectAdministrativeGender
- LivingSubjectBirthTime
- LivingSubjectId

*NOTE: Send both a non-SSN primary Id along with the SSN.*

2. The System returns a PD Response with a match for Patient P-000000019.



Provisional Test Cases

OR

The System returns the special error code that asks for additional demographics.

OR

The System returns a PD Response with no match.

OR

The System returns a PD Response with special error condition: "AnswerNotAvailable".

3. Verify conformance of the PD Response to the:
  - CL: PD Responder Response Checklist
  - CL: MA SOAP Response Checklist
4. Verify the SUT generates an audit message and that it conforms to the:
  - CL: PD Responder Audit Checklist

#### Referenced Specifications

2011 Exchange Specification	Patient Discovery v2.0: 3.1.5
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:PD-R-0023.0 – Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-0023.0
Title:	Discover patient using multiple names
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

SUT discovers patient using multiple names

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000202

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following parameters, with values taken from patient P-000000202:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters
  - LivingSubjectName

*NOTE: LivingSubjectName: contains 2 given names with middle name in the second <given> element*

- LivingSubjectAdministrativeGender
- LivingSubjectBirthTime
- Patient Address
- Patient Telecom

In addition, pass the following: LivingSubjectName: given = Ty, family = James



## Provisional Test Cases

2. The System logically connects multiple LivingSubjectNames with "or" and returns a PD Response with a match for Patient P-000000202.

OR

The System returns the special error code that asks for additional demographics.

OR

The System returns a PD Response with no match.

OR

The System returns a PD Response with special error condition: "AnswerNotAvailable".

3. Verify conformance of the PD Response to the:
  - CL: PD Responder Response Checklist
  - CL: MA SOAP Response Checklist
4. Verify the SUT generates and audit message and that it conforms to the:
  - CL: PD Responder Audit Checklist

### Referenced Specifications

2011 Exchange Specification	Patient Discovery v2.0: 3.1.5
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

### Change History

Date	Changes
July 10, 2018	Initial Draft Version

## Provisional Test Cases

March 15, 2019

Updated to new Data Load Set

### TC:PD-R-0030.0 – Patient Discovery Responding Gateway

Test Case ID:	TC: PD-R-0030.0
Title:	Return patient with multiple names
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Patient Discovery (XCPD)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

SUT returns patient with multiple names.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000025

#### Test Steps

1. The Testing Tool sends an immediate PD Request to the System with the following parameters, with values taken from patient P-000000025:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters
  - LivingSubjectName
  - LivingSubjectAdministrativeGender
  - LivingSubjectBirthTime
2. The System returns a PD Response with a match for Patient P-000000025 with multiple LivingSubjectNames.

OR

The System returns the special error code that asks for additional demographics.



Provisional Test Cases

OR

The System returns a PD Response with no match.

OR

The System returns a PD Response with special error condition: "AnswerNotAvailable".

3. Verify conformance of the PD Response to the:
  - CL: PD Responder Response Checklist
  - CL:MA SOAP Response Checklist
4. Verify the SUT generates an audit message and that it conforms to the:
  - CL: PD Responder Audit Checklist

#### Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Patient Discovery v2.0: 3.1.6
<a href="#">2011 Underlying Specification</a>	IHE IT Infrastructure Cross-Community Patient Discovery (XCPD) ITI-55 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:RD-R-0215.0 – Retrieve Documents Responding Gateway

Test Case ID:	TC: RD-R-0215.0
Title:	Retrieve multiple documents
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Alternate Success
Optionality:	Provisional

#### Purpose/Description

Testing Tool initiates a synchronous Retrieve Documents request for multiple documents to System. System responds with the requested documents.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Data Notes: Testing Tool – Obtain the repositoryUniqueId; Obtain the documentUniqueId for the SUT's D-000000040.1, D-000000040.4; Obtain the homeCommunityId of the SUT

Test Case Patient Association: P-000000040

#### Test Steps

#### QD

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters
  - \$XDSDocumentEntryPatientID = [P-000000040 PID]
  - \$XDSDocumentEntryStatus = Approved
  - \$XDSDocumentEntryAuthorPerson = Adam Hunter  
OR
  - \$XDSDocumentEntryAuthorPerson = Dean Hunter  
OR

## Provisional Test Cases

- \$XDSDocumentEntry.AuthorPerson = David DeGroot
- returnType = LeafClass
- returnComposedObjects = true

Commented [LB18]: Test case metadata is testing for classCode, not author

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains documents with the following objects:

Commented [LB19]: Test plan wrong

One document with:

-A 'DocumentMatch' of either: \$XDSDocumentEntry.UniqueId = D-000000040.1 OR  
(\$XDSDocumentEntry.PatientID = [P-000000040 PID] AND  
\$XDSDocumentEntry.AuthorPerson = [value from D-000000040.1])

Another document with:

-A 'DocumentMatch' of either: \$XDSDocumentEntry.UniqueId = D-000000040.4 OR  
(\$XDSDocumentEntry.PatientID = [P-000000040 PID] AND  
\$XDSDocumentEntry.AuthorPerson = [value from D-000000040.4])

Another document with:

-A 'DocumentMatch' of either: \$XDSDocumentEntry.UniqueId = D-000000040.25 OR  
(\$XDSDocumentEntry.PatientID = [P-000000040 PID] AND  
\$XDSDocumentEntry.AuthorPerson = [value from D-000000040.25])

## RD

1. The Testing Tool transmits to the System a synchronous Retrieve Documents request for two documents using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message  
ParametersRepositoryUniqueId: [Repository ID for D-000000040.1]
- DocumentUniqueId: [Document ID for D-000000040.1]
- homeCommunityId: [HCID for the System]
- RepositoryUniqueId: [Repository ID for D-000000040.4]
- DocumentUniqueId: [Document ID for D-000000040.4]
- homeCommunityId: [HCID for the System]



## Provisional Test Cases

2. The System returns to the Testing Tool an RD Response containing the requested document:

RegistryResponse/@status:Success

DocumentResponse: 2 present, contains documents D-000000040.1, D-000000040.4

3. Verify conformance of the RD Response to the:
  - CL: RD Responder Response Checklist
  - CL:MA SOAP Response Checklist

### Referenced Specifications

<b>2011 Exchange Specification</b>	Retrieve Documents v3.0: 3.2
<b>2011 Underlying Specification</b>	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-39 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: RD-R-0202.0 – Retrieve Documents Responding Gateway

Test Case ID:	TC: RD-R-0202.0
Title:	Handle an invalid DocumentUniqueId
SUT Role:	Responder
IHE Profile:	<a href="#">Cross-community Access (XCA)</a>
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Handle an invalid DocumentUniqueId error

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Data Notes: Testing Tool: Obtain the repositoryUniqueId; Obtain the homeCommunityId of the SUT

Test Case Patient Association: P-000000045

#### Test Steps

##### QD

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- \$XDSDocumentEntryPatientID = [P-000000045 PID]
- \$XDSDocumentEntryStatus = Approved
- \$XDSDocumentEntryAuthorPerson = Adam Hunter
- returnType = LeafClass
- returnComposedObjects = true

Commented [LB20]: Test case is looking for creationTimeFrom not author

2. The System successfully processes the Request and returns a QD Response to the Testing Tool that contains documents with the following objects:

Commented [LB21]: Test plan wrong

## Provisional Test Cases

One document with:  
-A 'DocumentMatch' of either: \$XDSDocumentEntry.UniqueId = D-000000045.1 OR  
(\$XDSDocumentEntry.PatientID = [P-000000045 PID] AND  
\$XDSDocumentEntry.AuthorPerson = [value from D-000000045.1])

### RD

1. The Testing Tool sends a synchronous Retrieve Documents request to the System using an invalid DocumentUniqueId described as follows:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters
- RepositoryUniqueId: [Repository ID for D-000000045.1]
- DocumentUniqueId: [Document Unique ID that the System never had]
- homeCommunityId: [HCID for the System]

2. The System does not process Request and returns an XDSDocumentUniqueId error to the Testing Tool containing:

RegistryResponse/RegistryErrorList: present, contains 1 RegistryError with @errorCode = XDSDocumentUniqueIdError

3. Verify conformance of the RD Response to the:

- CL: RD Responder Response Checklist
- CL:MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Retrieve Documents 3.0: 4
2011 Underlying Specification	IHE IT Infrastructure Cross-Community Patient Access (XCA) ITI-39 (Version 2010-08-10) and IHE IT Infrastructure Technical Framework Vol.1 & 2a, 2x, 3 Revision 7.0 (2010-08-10)

### Change History

Date	Changes
July 10, 2018	Initial Draft Version



Provisional Test Cases

March 15, 2019

Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.314 – Security Test

Test Case ID:	TC: MAQD-R-0003.314
Title:	Handle missing DigestMethod element in Timestamp signature reference
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing Security/Signature/SignedInfo/Reference/DigestMethod element.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element
  - Security/Signature/SignedInfo/Reference/DigestMethod is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.



Provisional Test Cases

OR

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP:MA Fault (Bothe) Message Parameters

OR

- Verify conformance of the PD Response to the:
- CL:MA SOAP Response Checklist

#### Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Authorization Framework 3.0: 3.2.2
<a href="#">2011 Underlying Specification</a>	

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: MAQD-R-0003.322 – Security Test

Test Case ID:	TC: MAQD-R-0003.322
Title:	Handle missing KeyIdentifier element in timestamp signature
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Required

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing KeyIdentifier element in timestamp signature.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Signature/KeyInfo/SecurityTokenReference/KeyIdentifier is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved r
  - eturnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP:MA Fault (Both) Message Parameters

OR

Verify conformance of the PD Response to the:

- CL:MA SOAP Response Checklist

## Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.2.2
2011 Underlying Specification	

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: MAQD-R-0003.327 – Security Test

Test Case ID:	TC: MAQD-R-0003.327
Title:	Handle missing KeyValue in assertion signature
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing KeyValue in assertion signature.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/Signature/KeyValue is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP:MA Fault (Both) Message Parameters
  - OR
  - Verify conformance of the PD Response to the:
    - CL:MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.4.3
2011 Underlying Specification	

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.328 – Security Test

Test Case ID:	TC: MAQD-R-0003.328
Title:	Handle missing RSAKeyValue in assertion signature
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing RSAKeyValue in assertion signature.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/Signature/KeyInfo/KeyValue/RSAKeyValue is missing.
- \$XDSDocumentEntryPatientID = [patient P-000000010]
- \$XDSDocumentEntryStatus = Approved
- returnType = LeafClass
- SOAP request = synchronous

Commented [LB22]: Message sent by GSS has RSAKeyValue

2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP:MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response message to the:
  - CL:MA SOAP Response Checklist

### Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Authorization Framework 3.0: 3.3.4.3
<a href="#">2011 Underlying Specification</a>	

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.329 – Security Test

Test Case ID:	TC: MAQD-R-0003.329
Title:	Handle missing RSAKeyValue/Modulus in assertion signature
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing RSAKeyValue/Modulus in assertion signature.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/Signature/KeyInfo/KeyValue/RSAKeyValue/Modulus is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL: MA SOAP Response Checklist

### Referenced Specifications

<a href="#">2011 Exchange Specification</a>	<a href="#">Authorization Framework 3.0: 3.3.4.3</a>
<a href="#">2011 Underlying Specification</a>	

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.330 – Security Test

Test Case ID:	TC: MAQD-R-0003.330
Title:	Handle missing RSAKeyValue/Exponent in assertion signature
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing RSAKeyValue/Exponent in assertion signature.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/Signature/KeyInfo/KeyValue/RSAKeyValue/Exponent is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL: MA SOAP Response Checklist

### Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Authorization Framework 3.0:3.3.4.3
<a href="#">2011 Underlying Specification</a>	

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.402 – Security Test

Test Case ID:	TC: MAQD-R-0003.402
Title:	Handle invalid version in assertion
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with an invalid Version in Assertion.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/@Version = "1.1".
- \$XDSDocumentEntryPatientID = [patient P-000000010]
- \$XDSDocumentEntryStatus = Approved
- returnType = LeafClass
- SOAP request = synchronous

Commented [LB23]: GSS is sending 1.9

2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a

## Provisional Test Cases

Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response message to the:
  - CL: MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.3
2011 Underlying Specification	SAML Token Profile 1.1: 3.6

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.403 – Security Test

Test Case ID:	TC: MAQD-R-0003.403
Title:	Handle missing value in assertion
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing Version in Assertion.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/@Version is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a

## Provisional Test Cases

Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL: MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.3
2011 Underlying Specification	SAML Token Profile 1.1: 3.6

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC: MAQD-R-0003.404 – Security Test

Test Case ID:	TC: MAQD-R-0003.404
Title:	Handle missing ID in assertion
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing ID in Assertion.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:

Commented [LB24]: GSS sends no message

- SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/@ID is missing.
- \$XDSDocumentEntryPatientID = [patient P-000000010]
- \$XDSDocumentEntryStatus = Approved
- returnType = LeafClass
- SOAP request = synchronous

2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a

## Provisional Test Cases

Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL: MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.3
2011 Underlying Specification	SOAP Message Security 1.1: 12

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.405 – Security Test

Test Case ID:	TC: MAQD-R-0003.405
Title:	Handle invalid ID in assertion
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with an invalid ID in Assertion.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/@ID is not a valid xs:ID as described in <http://www.w3.org/TR/xml-id/>.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL: MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.3
2011 Underlying Specification	SOAP Message Security 1.1: 12

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.406 – Security Test

Test Case ID:	TC: MAQD-R-0003.406
Title:	Handle missing IssueInstant in assertion
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing IssueInstant in Assertion.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/@IssueInstant is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a

## Provisional Test Cases

Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL: MA SOAP Response Checklist

## Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.3
2011 Underlying Specification	SOAP Message Security 1.1: 12

## Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.407 – Security Test

Test Case ID:	TC: MAQD-R-0003.407
Title:	Handle invalid IssueInstant in assertion
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with an invalid IssueInstant in Assertion.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/@IssueInstant is not valid xs:DateTime as described in <http://www.w3.org/TR/xmlschema-2/>.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL: MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.3
2011 Underlying Specification	SOAP Message Security 1.1: 12

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.408 – Security Test

Test Case ID:	TC: MAQD-R-0003.408
Title:	Handle IssueInstant in assertion much later than Message Timestamp
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with an IssueInstant in Assertion much later than Message Timestamp.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/@IssueInstant occurs 24 hours after the Message Timestamp Created value.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL: MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.3
2011 Underlying Specification	SOAP Message Security 1.1: 12

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.409 – Security Test

Test Case ID:	TC: MAQD-R-0003.409
Title:	Handle missing Issuer in assertion
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing Issuer in Assertion.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/Issuer is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a

## Provisional Test Cases

Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP:MA Fault (Both) Message ParametersOR  
Verify conformance of the PD Response to the:
  - CL:MA SOAP Response Checklist

### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.3
2011 Underlying Specification	SOAP Message Security 1.1: 12

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.432 – Security Test

Test Case ID:	TC: MAQD-R-0003.432
Title:	Handle invalid X.509 Certificate Public Key in assertion
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with an invalid X.509 Certificate Public Key in Assertion.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/Subject/SubjectConfirmation/SubjectConfirmationData/KeyInfo/X509Data/X509Certificate does not contain a public key assigned to the sending system
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

### 3. Verify conformance of the fault Response message to the:

- MP:MA Fault (Both) Message Parameters
- OR

Verify conformance of the PD Response to the:

- CL:MA SOAP Response Checklist

#### Referenced Specifications

2011 Exchange Specification	Authorization Framework 3.0: 3.3
2011 Underlying Specification	SOAP Message Security 1.1: 12

#### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set

## Provisional Test Cases

### TC:MAQD-R-0003.433 – Security Test

Test Case ID:	TC: MAQD-R-0003.433
Title:	Handle missing X.509 Certificate in Assertion
SUT Role:	Responder
IHE Profile:	
Flow:	Error
Optionality:	Provisional

#### Purpose/Description

Testing Tool sends a simple PD Request to the System with a missing X.509 Certificate element in Assertion.

#### Preconditions

Data Load Set: [DS:PRL-3](#)

Test Case Patient Association: P-000000010

#### Test Steps

1. The Testing Tool sends a synchronous Find Documents Request to the System, using the following required parameters:
  - SOAP Header = MP: MA Default Request (TestTool) Message Parameters, \*\*except the SOAP header element Security/Assertion/Subject/SubjectConfirmation/SubjectConfirmationData/KeyInfo/X509Data/X509Certificate is missing.
  - \$XDSDocumentEntryPatientID = [patient P-000000010]
  - \$XDSDocumentEntryStatus = Approved
  - returnType = LeafClass
  - SOAP request = synchronous
2. The System returns a SOAP fault to the Testing Tool with text describing the internal error using MP: MA Fault (Both) Message Parameters.

OR

## Provisional Test Cases

Based on its security policy, instead of returning a fault the System may return a normal response, but without performing the requested action. Example: if the request were a Patient Discovery, a normal response is returned, but with no matching patients found. This approach of concealing the fault is permitted by the underlying requirements to mitigate certain kinds of attacks.

3. Verify conformance of the fault Response message to the:
  - MP: MA Fault (Both) Message Parameters  
OR
  - Verify conformance of the PD Response to the:  
CL: MA SOAP Response Checklist

### Referenced Specifications

<a href="#">2011 Exchange Specification</a>	Authorization Framework 3.0: 3.3
<a href="#">2011 Underlying Specification</a>	SOAP Message Security 1.1: 12

### Change History

Date	Changes
July 10, 2018	Initial Draft Version
March 15, 2019	Updated to new Data Load Set