eHealth Exchange Provisional Product Test Cases

eHealth Exchange™

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eHealth Exchange Product Testing Program Change Log

Final Provisional Test Cases: Updated 12/10/2014 (Approved 1/14/14)

8/17/2015	Updated branding to The Sequoia Project
12/10/2014	Removed previously deprecated Test Cases, removed previously highlighted items, rearranged test cases to be in order with grid overview, updated change history sections and change log.
7/15/2014	**NOTE: Although the result of these tests cases (Pass or Fail) does not affect a product's ability to earn the eHealth Exchange Product Validation, vendors are required to execute all Provisional test cases.** Formatting update to include the Service Set and Scenario. These columns were part of the approved documentation on 6/6/16.
6/6/2014	June 2014 Edition 1. The grid below has been updated to include more information including Service Set and Test Scenario linkage to the original Test Case ID that was provided. 2. Items that were included in original documentation table as TC-MAPD-X-XXXX.XXX but should have been TC-MAQD-X-XXXX.XXX have been changed and marked with an * below. 3. Strikethrough test items have been deprecated and include the following: TC: MAQD-R-0003.323, MAQD-R-0003.324, MAQD-R-0003.325, MAQD-R-0003.420, -R-0003.423, MAQD-R-0003.424, TC: MAPD-R-0002.201, TC: MAPD-R-0002.301, TC: MAPD-R-0002.000 and TC: MAPD-I-0001.000. (eHealth-Exchange-Change-Proposal-CP-PRODUCT-Testing-Provisional-Test-Documentation-002-Deactivate- tests-2014-06-10) 4. Items highlighted in yellow within this provisional testing documentation are items that were added/changed since the Jan 2014 edition (version 1)
1/14/2014	January 2014 Edition of Provisional Product Testing Program Test Cases Approved – version 1

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Product Provisional Test Case List

Count	Service Set	Scenario	Test Case ID	Functional Area	Purpose / Description	Participant Testing	Product Testing
1	SS: PRL-0001.0	TS: PRL-I-0009.0	TC:QD-I-3003.0	Find Documents (advanced)	System finds documents with maximum possible parameters		1
2	SS: PRL-0002.0	TS: PRL-R-0004.0	TC: PD-R-0016.0	General	System handles a missing required parameter		1
3	SS: PRL-0005.0	TS: PRL-R-0008.0	TC: QD-R-3140.0	Find Documents	Find Documents with maximum possible parameters		1
4	SS: PRL-0005.0	TS: PRL-R-0013.0	TC: QD-R-3024.0	Find Documents	Find Documents with class code		1
5	SS: PRL-0005.0	TS: PRL-R-0013.0	TC: QD-R-3202.0	Find Documents	Find Documents with service start time from		1
6	SS: PRL-0005.0	TS: PRL-R-0013.0	TC: QD-R-3203.0	Find Documents	Find Documents by author		1
7	SS: PRL-0005.0	TS: PRL-R-0013.0	TC: QD-R-3031.0	Find Documents (advanced)	Find Documents with deprecated status		1
8	SS: PRL-0005.0	TS: PRL-R-0022.0	TC: QD-R-3222.0	Find Documents	Find Documents: no results		1
9	SS: PRL-0005.0	TS: PRL-R-0022.0	TC: QD-R-3006.0	Find Documents (advanced)	Find Documents: Unicode string normalization		1
10	SS: PRL-0005.0	TS: PRL-R-0020.0	TC: QD-R-3026.0	Find Documents	Find Documents with both creation time parameters		1
11	SS: PRL-0005.0	TS: PRL-R-0020.0	TC: QD-R-3127.0	Find Documents	Find Documents with creation time from		1
12	SS: PRL-0005.0	TS: PRL-R-0020.0	TC: QD-R-3128.0	Find Documents	Find Documents with creation time to		1
13	SS: PRL-0005.0	TS: PRL-R-0020.0	TC: QD-R-3028.0	Find Documents	Find Documents with healthcare facility type		1
14	SS: PRL-0005.0	TS: PRL-R-0020.0	TC: QD-R-3029.0	Find Documents	Find Documents with event code		1

Count	Service Set	Scenario	Test Case ID	Functional Area	Purpose / Description	Participant Testing	Product Testing
15	SS: PRL-0005.0	TS: PRL-R-0020.0	TC: QD-R-3030.0	Find Documents	Find Documents with format code		1
16	SS: PRL-0006.0	TS: PRL-R-0006.0	TC: MAQD-R-0003.102	SOAP Security	Testing Tool sends a simple QD Request to the System with an Expired Security/Timestamp		1
17	SS: PRL-0006.0	TS: PRL-R-0035.0	TC: MAQD-R-0003.103	SOAP Security	Testing Tool sends a simple QD Request to the System with a Security/Timestamp in the future		1
18	SS: PRL-0006.0	TS: PRL-R-0036.0	TC: MAQD-R-0003.304	XML Signature	Testing Tool sends a simple QD Request to the System with an invalid timestamp signature		1
19	SS: PRL-0006.0	TS: PRL-R-0037.0	TC: MAQD-R-0003.305	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo element		1
20	SS: PRL-0006.0	TS: PRL-R-0038.0	TC: MAQD-R-0003.309	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo/ SignatureMethod/@algorithm attribute		1
21	SS: PRL-0006.0	TS: PRL-R-0038.0	TC: MAQD-R-0003.310	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo/ Reference attribute		1

Count	Service Set	Scenario	Test Case ID	Functional Area	Purpose / Description	Participant Testing	Product Testing
22	SS: PRL-0006.0	TS: PRL-R-0039.0	TC: MAQD-R-0003.311	XML Signature	Testing Tool sends a simple QD Request to the System with an invalid Security/Signature/SignedInfo/Reference/@URI attribute		1
23	SS: PRL-0006.0	TS: PRL-R-0039.0	TC: MAQD-R-0003.312	XML Signature	Testing Tool sends a simple QD Request to the System with a Security/Signature/SignedInfo/Reference/Transforms that contains no Transform elements		1
24	SS: PRL-0006.0	TS: PRL-R-0039.0	TC: MAQD-R-0003.313	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo/Reference/Transforms/Transform/@algorithm element		1
25	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0015.0	General	System discovers patient using minimum required parameters		1
26	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0022.0	General	System discovers the patient using all possible parameters and returns a match		1
27	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0033.0	General	System finds and returns no match		1
28	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0018.0	General	System discovers patient using address and phone number		1
29	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0020.0	General	System discovers patient using SSN		1

Count	Service Set	Scenario	Test Case ID	Functional Area	Purpose / Description	Participant Testing	Product Testing
30	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0026.0	Multiple Assigning Authorities	System discovers patient and get matches from multiple assigning authorities		1
31	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0019.0	Multiple instances of demographics	System discovers patient using multiple addresses and phone numbers; return patient with multiple (different) addresses and phone numbers		1
32	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0021.0	General	System discovers patient using middle name and handles multiple LivingSubjectIDs		1
33	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0023.0	Multiple instances of demographics	System discovers patient using multiple names		1
34	SS: PRL-0009.0	TS: PRL-R-0002.0	TC: PD-R-0030.0	Multiple instances of demographics	System returns patient with multiple names		1
35	SS: PRL-0009.0	TS: PRL-R-0030.0	TC: RD-R-0215.0	Retrieve Documents	Testing Tool initiates a synchronous Retrieve Documents request for multiple documents to System. System responds with the requested documents		1
36	SS: PRL-0010.0	TS: PRL-R-0032.0	TC: RD-R-0202.0	Retrieve Documents	Handle an invalid DocumentUniqueId error		1
37	SS: PRL-0011.0	TS:PRL-R-0040.0	TC: MAQD-R-0003.314	XML Signature	Testing Tool sends a simple QD Request to the System with a missing Security/Signature/SignedInfo/ Reference/DigestMethod element		1

Count	Service Set	Scenario	Test Case ID	Functional Area	Purpose / Description	Participant Testing	Product Testing
38	SS: PRL-0011.0	TS:PRL-R-0042.0	TC: MAQD-R-0003.322	XML Signature	Testing Tool sends a simple QD Request to the System with a missing KeyIdentifier element in timestamp signature		1
39	SS: PRL-0011.0	TS:PRL-R-0044.0	TC: MAQD-R-0003.327	XML Signature	Testing Tool sends a simple QD Request to the System with a missing KeyValue in assertion signature		1
40	SS: PRL-0011.0	TS:PRL-R-0044.0	TC: MAQD-R-0003.328	XML Signature	Testing Tool sends a simple QD Request to the System with a missing RSAKeyValue in assertion signature		1
41	SS: PRL-0011.0	TS:PRL-R-0045.0	TC: MAQD-R-0003.329	XML Signature	Testing Tool sends a simple QD Request to the System with a missing RSAKeyValue/Modulus in assertion signature		1

Count	Service Set	Scenario	Test Case ID	Functional Area	Purpose / Description	Participant Testing	Product Testing
42	SS: PRL-0011.0	TS:PRL-R-0045.0	TC: MAQD-R-0003.330	XML Signature	Testing Tool sends a simple QD Request to the System with a missing RSAKeyValue/Exponent in assertion signature		1
43	SS: PRL-0012.0	TS:PRL-R-0046.0	TC: MAQD-R-0003.402	SAML Assertion	Testing Tool sends a simple QD Request to the System with an invalid Version in Assertion		1
44	SS: PRL-0012.0	TS:PRL-R-0046.0	TC: MAQD-R-0003.403	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing Version in Assertion		1
45	SS: PRL-0012.0	TS:PRL-R-0047.0	TC: MAQD-R-0003.404	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing ID in Assertion		1
46	SS: PRL-0012.0	TS:PRL-R-0047.0	TC: MAQD-R-0003.405*	SAML Assertion	Testing Tool sends a simple QD Request to the System with an invalid ID in Assertion		1
47	SS: PRL-0012.0	TS:PRL-R-0047.0	TC: MAQD-R-0003.406*	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing IssueInstant in Assertion		1
48	SS: PRL-0012.0	TS:PRL-R-0048.0	TC: MAQD-R-0003.407*	SAML Assertion	Testing Tool sends a simple QD Request to the System with an invalid IssueInstant in Assertion		1
49	SS: PRL-0012.0	TS:PRL-R-0048.0	TC: MAQD-R-0003.408*	SAML Assertion	Testing Tool sends a simple QD Request to the System with an IssueInstant in Assertion much later than Message Timestamp		1

Count	Service Set	Scenario	Test Case ID	Functional Area	Purpose / Description	Participant Testing	Product Testing
50	SS: PRL-0012.0	TS:PRL-R-0048.0	TC: MAQD-R-0003.409*	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing Issuer in Assertion		1
51	SS: PRL-0013.0	TS:PRL-R-0056.0	TC: MAQD-R-0003.432*	SAML Assertion	Testing Tool sends a simple QD Request to the System with an invalid X.509 Certificate Public Key in Assertion		1
52	SS: PRL-0013.0	TS:PRL-R-0056.0	TC: MAQD-R-0003.433*	SAML Assertion	Testing Tool sends a simple QD Request to the System with a missing X.509 Certificate element in Assertion		1

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eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-I-3003.0
Title:	Find Documents by maximum possible parameters
Release Date:	Revised 141210 - Vendor Provisional
Version:	54
SUT Role:	Initiator

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

System finds documents with maximum possible parameters

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000031

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Test Steps

1. The System sends a synchronous Find Documents Request to the Testing Tool, using the following parameters and class code as many 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
$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
$XDDocumentEntryConfidentialityCode = [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
$XDSDocumentEntryAuthorPerson = ['%H_nt%']
$XDSDocumentType = [On-Demand OR Stable] *NOTE: Don't use this parameter for 2010 Request
returnType = LeafClass SOAP
request = synchronous

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

2. **Expected Results:** 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

   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	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.3 (XCA)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

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eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0016.0
Title:	Handle missing required parameter
Release Date:	Revised 141210 - Vendor Provisional
Version:	34
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	true
2010 Exchange:	false
IHE Profile:	XCPD
Flow:	Error
Optionality:	Provisional

Purpose/Description

System handles a missing required parameter.

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000210

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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. **Expected Result**: 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"
codeSystem="1.3.6.1.4.1.19376.1.2.27.3"/>
         </detectedIssueManagement>
   </mitigatedBy>
</detectedIssueEvent>
```

   - no hl7:registrationEvent returned

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.5
2011 Underlying Specification	IHE ITI TF-2b: 3.55.4.1.3 (XCPD) IHE ITI TF-2b: 3.55.4.2.2.7 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

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eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3140.0
Title:	Find Documents by maximum possible parameters
Release Date:	Revised 141210 - Vendor Provisional
Version:	39
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with maximum possible parameters

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000031

eHealth Exchange™

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

2. **Expected Results**: The Testing Tool successfully processes the Request and returns a QD 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]

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

Referenced Specifications

2011 Exchange Specification	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.3

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3024.0
Title:	Find Documents by class code
Release Date:	Revised 141210 - Vendor Provisional
Version:	32
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with class code

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000007

eHealth Exchange™

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-000000007 PID]
   $XDSDocumentEntryStatus = Approved
   $XDSDocumentEntryClassCode = [code]^^[scheme]
   class code = 34117-2
   class code scheme = 2.16.840.1.113883.6.1 returnType
   = LeafClass
   SOAP request = synchronous
   returnComposedObjects = true

2. **Expected Result:** 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-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]
   -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	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.7.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3202.0
Title:	Find Documents by service start time from
Release Date:	Revised 141210 - Vendor Provisional
Version:	27
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with service start time from

Preconditions

Data Load Set

DS: PRL-2

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:

2. 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
   SOAP request = synchronous
   returnComposedObjects = true

3. **Expected Result:** 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]
   -A match on: XDSDocumentEntry.serviceStart = [value from D-00000008.6]

   Another document with:
   -A 'DocumentMatch' of either: XDSDocumentEntry.uniqueId = D-000000008.8 OR (XDSDocumentEntry.patientID = [P-000000008 PID] AND XDSDocumentEntry.authorPerson = [value from D-000000008.8])
   -A match on: XDSDocumentEntry.status = [value from D-000000008.8]
   -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.

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

Referenced Specifications

2011 Exchange Specification	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.7.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3203.0
Title:	Find Documents by author
Release Date:	Revised 141210 - Vendor Provisional
Version:	29
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents by author

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000026

eHealth Exchange™

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-000000026 PID]
   $XDSDocumentEntryStatus = Approved
   $XDSDocumentEntryAuthorPerson = ^Hunter^Adam^^^ returnType
   = LeafClass
   SOAP request = synchronous
   returnComposedObjects=true

2. **Expected Result:** 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]
   -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	QD v3.0: 1.13.2
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.5

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3031.0
Title:	Find Documents by deprecated status
Release Date:	Revised 141210 - Vendor Provisional
Version:	27
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with deprecated status

Preconditions

Data Load Set

DS: PRL-2

Data Notes

System:
For Dynamic document HIEs, must first persist the document and then change its status to deprecated.

Test Case Patient Association

P-000000045

eHealth Exchange™

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. **Expected Result:** 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
   $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

2011 Exchange Specification	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.7.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3222.0
Title:	Find Documents: no results
Release Date:	Revised 141210 - Vendor Provisional
Version:	23
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents: no results

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000012

eHealth Exchange™

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 = objectRef
   SOAP request = synchronous

2. **Expected Result:** 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

Referenced Specifications

2011 Exchange Specification	QD v3.0: 1.4
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3006.0
Title:	Find Documents: Unicode string normalization
Release Date:	Revised 141210 - Vendor Provisional
Version:	36
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents: Unicode string normalization

Preconditions

Data Load Set

DS: PRL-2

eHealth Exchange™

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
   SOAP request = synchronous

2. **Expected Result:** 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]
   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	QD v3.0: 1.4
2011 Underlying Specification	- IHE ITI TF-2a: 3.18.4.1.2.3.1 - IHE ITI TF-3: 4.2

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3026.0
Title:	Find Documents by both creation time parameters
Release Date:	Revised 141210 - Vendor Provisional
Version:	29
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with both creation time parameters

Preconditions

Data Load Set

DS: PRL-2

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
   SOAP request = synchronous 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. **Expected Result:** 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-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]

   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

2011 Exchange Specification	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.7.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3127.0
Title:	Find Documents by creation time from
Release Date:	Revised 141210 - Vendor Provisional
Version:	33
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with creation time from

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000201

eHealth Exchange™

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
   SOAP request = synchronous
   returnComposedObjects = true

2. **Expected Result:** 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])
   -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]

   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

eHealth Exchange™

Referenced Specifications

2011 Exchange Specification	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.7.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3128.0
Title:	Find Documents by creation time to
Release Date:	Revised 141210 - Vendor Provisional
Version:	31
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with creation time to

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000202

eHealth Exchange™

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
   SOAP request = synchronous
   returnComposedObjects = true

2. **Expected Result:** 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]
   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 ExternalIdentifer elements

   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

eHealth Exchange™

Referenced Specifications

2011 Exchange Specification	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.7.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3028.0
Title:	Find Documents by healthcare facility type
Release Date:	Revised 141210 - Vendor Provisional
Version:	25
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with healthcare facility type

Preconditions

Data Load Set

DS: PRL-2

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 returnType = LeafClass
SOAP request = synchronous
returnComposedObjects = true

2. **Expected Result:** 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]

   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	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.7.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3029.0
Title:	Find Documents with event code
Release Date:	Revised 141210 - Vendor Provisional
Version:	22
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with event code

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000017

eHealth Exchange™

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
   SOAP request = synchronous
   returnComposedObjects = true

2. **Expected Result:** 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-000000017.1 OR
   (XDSDocumentEntry.patientID = [P-000000017 PID]
   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	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.7.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: QD-R-3030.0
Title:	Find Documents by format code
Release Date:	Revised 141210 - Vendor Provisional
Version:	28
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

Find Documents with format code

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000020

eHealth Exchange™

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 SOAP
   request = synchronous
   returnComposedObjects = true

2. **Expected Result:** 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] 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	QD v3.0: 1.12
2011 Underlying Specification	IHE ITI TF-2a: 3.18.4.1.2.3.7.1

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.102
Title:	Handle expired Security/Timestamp
Release Date:	Revised 141210 - Vendor Provisional
Version:	14
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

Testing Tool sends a simple QD Request to the System with an Expired Security/Timestamp.

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000008

Test Case Metadata Association

D-000000008.1

eHealth Exchange™

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-000000008]
   $XDSDocumentEntryStatus = Approved returnType
   = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.103
Title:	Handle Security/Timestamp created in future
Release Date:	Revised 141210 - Vendor Provisional
Version:	15
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

Testing Tool sends a simple QD Request to the System with a Security/Timestamp in the future.

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000011

Test Case Metadata Association

D-000000011.1

eHealth Exchange™

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-000000011]
   $XDSDocumentEntryStatus = Approved returnType =
   LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.304
Title:	Handle invalid timestamp signature
Release Date:	Revised 141210 - Vendor Provisional
Version:	33
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000201

Test Case Metadata Association

D-000000201.1

eHealth Exchange™

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.
   $XDSDocumentEntryPatientID = [patient P-000000201]
   $XDSDocumentEntryStatus = Approved returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.305
Title:	Handle missing SignedInfo element in Timestamp signature
Release Date:	Revised 141210 - Vendor Provisional
Version:	12
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000031

Test Case Metadata Association

D-000000031.1

eHealth Exchange™

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, **exceptthe SOAP header element Security/Signature/SignedInfo is missing.
   $XDSDocumentEntryPatientID = [patient P-000000031]
   $XDSDocumentEntryStatus = Approved returnType =
   LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 anormal 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.309
Title:	Handle missing SignatureMethod algorithm in Timestamp signature
Release Date:	Revised 141210 - Vendor Provisional
Version:	14
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000203

Test Case Metadata Association

D-000000203.1

eHealth Exchange™

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-000000203]
   $XDSDocumentEntryStatus = Approved returnType =
   LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 anormal 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.310
Title:	Handle missing Reference element in Timestamp signature
Release Date:	Revised 141210 - Vendor Provisional
Version:	13
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000205

Test Case Metadata Association

D-000000205.1

eHealth Exchange™

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-000000205]
   $XDSDocumentEntryStatus = Approved returnType
   = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.311
Title:	Handle invalid URI in Timestamp signature reference
Release Date:	Revised 141210 - Vendor Provisional
Version:	12
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000207

Test Case Metadata Association

D-000000207.1

eHealth Exchange™

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-000000207]
   $XDSDocumentEntryStatus = Approved returnType =
   LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.312
Title:	Handle missing Transform elements in Timestamp signature reference
Release Date:	Revised 141210 - Vendor Provisional
Version:	11
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000209

Test Case Metadata Association

D-000000209.1

eHealth Exchange™

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-000000209]
   $XDSDocumentEntryStatus = Approved
   returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 anormal 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.313
Title:	Handle missing Transform algorithm in Timestamp signature reference
Release Date:	Revised 141210 - Vendor Provisional
Version:	12
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000211

Test Case Metadata Association

D-000000211.1

eHealth Exchange™

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-000000211]
   $XDSDocumentEntryStatus = Approved
   returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0015.0
Title:	Discover patient using minimum required parameters
Release Date:	Revised 141210 - Vendor Provisional
Version:	43
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCPD
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

System discovers patient using minimum required parameters.

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000043

eHealth Exchange™

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. **Expected Result:** 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.

   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 System generates an audit message and that it conforms to the:

   - CL: PD Responder Audit Checklist

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.5
2011 Underlying Specification	IHE ITI TF-2b:3.55.5.1 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0022.0
Title:	Discover patient using all possible parameters
Release Date:	Revised 141210 - Vendor Provisional
Version:	44
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	true
2010 Exchange:	false
IHE Profile:	XCPD
Flow:	Basic Success
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000203

eHealth Exchange™

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 LivingSubjectId:

   NOTE: Include SSN, use value taken from patient P-000000203. Include a single, primary, non-SSN as well.

   LivingSubjectBirthPlaceAddress
   MothersMaidenName PatientAddress
   PatientTelecom

2. **Expected Result**: The System returns a PD Response with a match for Patient P-000000203.

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

4. Verify the System generates an audit message and that it conforms to the:
   - CL: PD Responder Audit Checklist

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.5
2011 Underlying Specification	IHE ITI TF-2b: 3.55.4.1.3.1 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0033.0
Title:	Return no match
Release Date:	Revised 141210 - Vendor Provisional
Version:	31
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCPD
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

System finds and returns no match.

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000199

eHealth Exchange™

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. **Expected Result**: The System returns a PD Response with no RegistrationEvent.

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

4. Verify the System generates an audit message and that it conforms to the:
   - CL: PD Responder Audit Checklist

Referenced Specifications

2011 Exchange Specification	
2011 Underlying Specification	IHE ITI TF-2b: 3.55.4.2.3 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0018.0
Title:	Discover patient using address and phone number
Release Date:	Revised 141210 - Vendor Provisional
Version:	19
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCPD
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

System discovers patient using address and phone number.

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000211

eHealth Exchange™

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. **Expected Result:** 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

   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 System generates an audit message and that it conforms to the:

   - CL: PD Responder Audit Checklist

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.5
2011 Underlying Specification	IHE ITI TF-2b: 3.55.4.1.2.1 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0020.0
Title:	Discover patient using SSN
Release Date:	Revised 141210 - Vendor Provisional
Version:	15
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCPD
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

System discovers patient using SSN.

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000037

eHealth Exchange™

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

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

   LivingSubjectAdministrativeGender
   LivingSubjectBirthTime LivingSubjectId:

   NOTE: Include SSN, use value taken from patient P-000000037

2. **Expected Result:** 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.

   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 System generates an audit message and that it conforms to the:

   - CL: PD Responder Audit Checklist

eHealth Exchange™

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.5
2011 Underlying Specification	IHE ITI TF-2b: 3.55.4.2.2.2 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0026.0
Title:	Discover patient and get matches from multiple assigning authorities
Release Date:	Revised 141210 - Vendor Provisional
Version:	14
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCPD
Flow:	Alternate Success
Optionality:	Conditional

Purpose/Description

System discovers patient and get matches from multiple assigning authorities.

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000011

eHealth Exchange™

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: Include SSN, use value taken from patient P-000000011

   LivingSubjectBirthPlaceAddress
   MothersMaidenName
   PatientAddress
   PatientTelecom

2. **Expected Result:** 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 System generates an audit message and that it conforms to the:
   - CL: PD Responder Audit Checklist

eHealth Exchange™

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.6
2011 Underlying Specification	IHE ITI TF-2b: 3.55.4.1.2.4 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

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
Release Date:	Revised 141210 - Vendor Provisional
Version:	13
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCPD
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000044

eHealth Exchange™

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)
   PatientTelecom: +1-702-999-8647

2. **Expected Result:** 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 System generates an audit message and that it conforms to the:

- CL: PD Responder Audit Checklist

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.5
2011 Underlying Specification	IHE ITI TF-2b: 3.55.4.1.2.1 (XCPD) IHE ITI TF-2b: 3.55.4.2.2.2 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0021.0
Title:	Discover patient using middle name; handle multiple LivingSubjectIDs
Release Date:	Revised 141210 - Vendor Provisional
Version:	17
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCPD
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

System discovers patient using middle name and handles multiple LivingSubjectIDs.

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000019

eHealth Exchange™

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. **Expected Result:** The System returns a PD Response with a match for Patient P-000000019.

   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 System generates an audit message and that it conforms to the:
   - CL: PD Responder Audit Checklist

eHealth Exchange™

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.5
2011 Underlying Specification	IHE ITI TF-2b: 3.55.4.2.2.2 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0023.0
Title:	Discover patient using multiple names
Release Date:	Revised 141210 - Vendor Provisional
Version:	17
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCPD
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

System discovers patient using multiple names.

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000202

eHealth Exchange™

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

2. **Expected Result:** 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 System generates an audit message and that it conforms to the:

   CL: PD Responder Audit Checklist

eHealth Exchange™

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.5
2011 Underlying Specification	IHE ITI TF-2b: 3.55.2 (XCPD) IHE ITI TF-2b: 3.55.4.1.2.1 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: PD-R-0030.0
Title:	Return patient with multiple names
Release Date:	Revised 141210 - Vendor Provisional
Version:	12
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCPD
Flow:	Alternate Success
Optionality:	Required

Purpose/Description

System returns patient with multiple names.

Preconditions

Data Load Set

DS: PRL-2

Test Case Patient Association

P-000000025

eHealth Exchange™

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. **Expected Result:** 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.

   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 System generates an audit message and that it conforms to the:
   - CL: PD Responder Audit Checklist

Referenced Specifications

2011 Exchange Specification	PD v2.0: 3.1.6
2011 Underlying Specification	IHE ITI TF-2b: 3.55.4.1.2.4 (XCPD)

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: RD-R-0215.0
Title:	Retrieve multiple documents
Release Date:	Revised 141210 - Vendor Provisional
Version:	30
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Alternate Success
Optionality:	Required

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-2

Data Notes

Testing Tool:

Obtain the repositoryUniqueId
Obtain the documentUniqueId for the System's D-000000040.1, D-000000040.4
Obtain the homeCommunityId of the System

Test Case Patient Association

P-000000040

eHealth Exchange™

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-000000018 PID]
   $XDSDocumentEntryStatus = Approved
   $XDSDocumentEntryAuthorPerson = Adam Hunter
   OR
   $XDSDocumentEntryAuthorPerson = Dean Hunter
   OR
   $XDSDocumentEntryAuthorPerson = David DeGroot
   returnType = LeafClass SOAP
   request = synchronous
   returnComposedObjects = true

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

   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 Parameters
   RepositoryUniqueId: [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]

2. **Expected Result:** 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

2011 Exchange Specification	Retrieve Documents 3.0: Section 3.2
2011 Underlying Specification	- IHE ITI TF Vol 2b Sec 3.39 - IHE ITI Supplement XCA Sec 3.43

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: RD-R-0202.0
Title:	Handle an invalid DocumentUniqueId
Release Date:	Revised 141210 - Vendor Provisional
Version:	32
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	XCA
Flow:	Error
Optionality:	Required

Purpose/Description

Handle an invalid DocumentUniqueId error.

Preconditions

Data Load Set

DS: PRL-2

Data Notes

Testing Tool:
Obtain the repositoryUniqueId
Obtain the homeCommunityId of the System

Test Case Patient Association

P-000000045

eHealth Exchange™

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 SOAP
   request = synchronous
   returnComposedObjects = true

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

   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. **Expected Results:** 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 Sec 4
2011 Underlying Specification	- IHE ITI TF Vol 2b Sec 3.39.4.1.3 - IHE ITI TF Vol 3 Sec 4.1.13 - IHE ITI Supplement XCA Table 4.1-11

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.314
Title:	Handle missing DigestMethod element in Timestamp signature reference
Release Date:	Revised 141210 - Vendor Provisional
Version:	12
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000002

Test Case Metadata Association

D-000000002.1

eHealth Exchange™

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-000000002]
   $XDSDocumentEntryStatus = Approved
   returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.322
Title:	Handle Missing KeyIdentifier element in timestamp signature
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000201

Test Case Metadata Association

D-000000201.1

eHealth Exchange™

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-000000201]
   $XDSDocumentEntryStatus = Approved
   returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.327
Title:	Handle Missing KeyValue in assertion signature
Release Date:	Revised 141210 - Vendor Provisional
Version:	9
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000203

Test Case Metadata Association

D-000000203.1

eHealth Exchange™

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 is missing.
   $XDSDocumentEntryPatientID = [patient P-000000203]
   $XDSDocumentEntryStatus = Approved
   returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 3.3.4.3
2011 Underlying Specification	

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.328
Title:	Handle Missing RSAKeyValue in assertion signature
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000205

Test Case Metadata Association

D-000000205.1

eHealth Exchange™

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-000000205]
   $XDSDocumentEntryStatus = Approved returnType
   = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 3.3.4.3
2011 Underlying Specification	

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.329
Title:	Handle Missing RSAKeyValue/Modulus in assertion signature
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000207

Test Case Metadata Association

D-000000207.1

eHealth Exchange™

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-000000207]
   $XDSDocumentEntryStatus = Approved
   returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 3.3.4.3
2011 Underlying Specification	

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.330
Title:	Handle Missing RSAKeyValue/Exponent in assertion signature
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000209

Test Case Metadata Association

D-000000209.1

eHealth Exchange™

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-000000209]
   $XDSDocumentEntryStatus = Approved returnType
   = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 3.3.4.3
2011 Underlying Specification	

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.402
Title:	Handle Invalid Version in Assertion
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000005

Test Case Metadata Association

D-000000005.1

eHealth Exchange™

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-000000005]
   $XDSDocumentEntryStatus = Approved returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis

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eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.403
Title:	Handle Missing Version in Assertion
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000008

Test Case Metadata Association

D-000000008.1

eHealth Exchange™

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-000000008]
   $XDSDocumentEntryStatus = Approved returnType
   = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 anormal 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 QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis

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eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.404
Title:	Handle Missing ID in Assertion
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000011

Test Case Metadata Association

D-000000011.1

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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 missing.
   $XDSDocumentEntryPatientID = [patient P-0000000011]
   $XDSDocumentEntryStatus = Approved returnType
   = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.405
Title:	Handle Invalid ID in Assertion
Release Date:	Revised 141210 - Vendor Provisional
Version:	11
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000015

Test Case Metadata Association

D-000000015.1

eHealth Exchange™

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-0000000015]
   $XDSDocumentEntryStatus = Approved
   returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.406
Title:	Handle Missing IssueInstant in Assertion
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000019

Test Case Metadata Association

D-000000019.1

eHealth Exchange™

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-0000000019]
   $XDSDocumentEntryStatus = Approved returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.407
Title:	Handle Invalid IssueInstant in Assertion
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000023

Test Case Metadata Association

D-000000023.1

eHealth Exchange™

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 a valid xs:DateTime as described in http://www.w3.org/TR/xmlschema-2/.
   $XDSDocumentEntryPatientID = [patient P-0000000023]
   $XDSDocumentEntryStatus = Approved
   returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.408
Title:	Handle IssueInstant in Assertion much later than Message Timestamp
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000026

Test Case Metadata Association

D-000000026.1

eHealth Exchange™

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 Time Stamp Created value.
   $XDSDocumentEntryPatientID = [patient P-0000000026]
   $XDSDocumentEntryStatus = Approved
   returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.409
Title:	Handle Missing Issuer in Assertion
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000201

Test Case Metadata Association

D-000000201.1

eHealth Exchange™

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-0000000201]
   $XDSDocumentEntryStatus = Approved returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 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 QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.432
Title:	Handle Invalid X.509 Certificate Public Key in Assertion
Release Date:	Revised 141210 - Vendor Provisional
Version:	11
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000045

Test Case Metadata Association

D-000000045.1

eHealth Exchange™

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-0000000045]
   $XDSDocumentEntryStatus = Approved returnType = LeafClass
   SOAP request = synchronous

2. **Expected Result:** 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 anormal 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 QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis

eHealth Exchange™

eHealth Exchange Provisional Security Product Testing

Test Case

Development Requirement Specification

Test Case ID:	TC: MAQD-R-0003.433
Title:	Handle Missing X.509 Certificate in Assertion
Release Date:	Revised 141210 - Vendor Provisional
Version:	10
SUT Role:	Responder

Coverage Specifications

2011 Exchange:	True
2010 Exchange:	False
IHE Profile:	
Flow:	Error
Optionality:	Required

Purpose/Description

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

Preconditions

Data Load Set

DS: PRL-2

Data Notes

None

Test Case Patient Association

P-000000203

Test Case Metadata Association

D-000000203.1

eHealth Exchange™

Test Steps

2. 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 is present, but does not contain a <X509Certificate> element.
   $XDSDocumentEntryPatientID = [patient P-00000000203]
   $XDSDocumentEntryStatus = Approved returnType =
   LeafClass
   SOAP request = synchronous

3. **Expected Result:** 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 anormal 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.

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

   - MP: MA Fault (Both) Message Parameters

   OR

   Verify conformance of the QD Response to the:

   - CL: MA SOAP Response Checklist

Referenced Specifications

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

Change History	
Date	**Author**
December 10, 2014	Didi Davis