



Web Services Implementation Guide

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Document History

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1 Overview

The OneHealthPort Health Information Exchange (HIE) Web Services Implementation guide provides information for organizations that have the tools and resources to set up and manage web services using public key infrastructure certificate exchange for data submissions.

1.1 Purpose

The purpose of this document is to provide the certificate requirements, end point connectivity information and additional transaction-based information for organizations' use in preparing for and implementing web services with the OneHealthPort HIE.

1.2 Intended Audience

This document is intended for:

- New trading partners requiring information about OneHealthPort web services.
- Parties responsible for implementing and managing certificate-based connectivity to the OneHealthPort HIE.

2 Certificate Requirements for HIE Web Services

The OneHealthPort HIE web services use the open internet to allow maximum bandwidth for message exchange. Certificates are used to sign and encrypt messages using full Public Key Infrastructure (PKI) sent via a secured channel (https). Multiple web service transactions can be traded with a single certificate exchange.

Organizations choosing web services **are required to provide certificates to the OneHealthPort HIE**. Only certificates from a third-party certificate authority (CA) are accepted for use. The same CA issued certificate may be used with both the OneHealthPort production and UAT (User Acceptance Testing or test) environments.

Certificate requirements:

- Certificates supplied must be from a commercial certificate authority – self-signed certificates will not be accepted
- The same certificate may be used with the production and UAT (test) environments
- 2048-bit SSL Secure Sockets Layer with TLS Encryption (not less than TLS 1.2)

- 256-bit encryption
- SHA-2
- Standard or Basic SSL certificate for a single Domain name (Wildcard or multi-domain is not required unless that is your organization's standard)
- Validity option: 1 year
- Preferred format - A digital certificate will be required for secure exchange of data. This may be in the form of either a DER encoded binary X.509 (.cer) or Cryptographic Message Syntax Standard PKCS #7 (.p7b, .p7c). If a .p7b/.p7c file is used, please export the entire certificate chain for use during the connectivity process
- Provide full certificate chain from a third-party certificate authority PLUS the public key.

2.1 Certificate Handling

The certificate generated for trading partner connectivity to the HIE is unique for each partner. The trust relationship is created between each partner and the OneHealthPort HIE through execution of the HIE Participation Agreement.

Each trading partner will only require the certificate of the OneHealthPort HIE to trade with the entire OneHealthPort HIE trading community. The OneHealthPort HIE is designed as a spoke and hub model with a single connection from each participant (trading partner) to the HIE (hub). Data will flow from the sending party to the HIE and then outbound to the designated receiving party.

All the transactions to OneHealthPort HIE will be done using certificate based mutual authentication. Trading Partner and OneHealthPort HIE will need to exchange certificates prior to establishing the secure connection.

From a high-level point of view, the process of authenticating and establishing an encrypted channel using certificate-based mutual authentication involves the following steps:

1. A client requests access to a protected resource/service.
2. The server presents its certificate to the client.
3. The client verifies the server's certificate.
4. If successful, the client sends its certificate to the server.
5. The server verifies the client's credentials.
6. If successful, the server grants access to the protected resource requested by the client.

3 Endpoint for Web Service Transactions

WSDL and an endpoint URL are provided by the OneHealthPort Clinical Data Repository (CDR) for use by the organization when implementing web services to the CDR. The only accepted method for WSDL retrieval is a “GET”. Any “POST” requests to the WSDL will fail. Production endpoints will be provided upon successful completion of testing.

OneHealthPort HIE UAT (test) Environment:

ITI-41NS WSDL – URL link for the ITI-41NS WSDL <https://uat-v2-onehealthport-api.axwaycloud.com/wsdl/ITI41NS?wsdl>

- Endpoint - <https://uat-v2-onehealthport-api.axwaycloud.com:8098/webservice/ITI41NS>

4 Web Service Transactions

Currently OneHealthPort supports the following web services transaction shown below.

4.1 ITI-41NS Provide and Register Non-standard

Transaction used to push documents to a document registry for organizations who desire the use of a web service transaction but cannot meet the format and content requirements of the ITI-41. Currently the **CDR format required is SIMPLE SOAP with an embedded CCD that is base64 encoded**. When a transaction is submitted using this channel, internal logic exists to strip the ITI-41 wrapper, and internally create an ITI-41 that will successfully ingest in the CDR, using the content found in the CCD message header.

4.2 Message Responses

Web services Provide and Register transaction submissions will receive message responses, indicating a successful transmission or an error condition. Samples of message responses are shown in the Appendix.

5 HIE and CDR Operations Change Management

Organizations will need to incorporate management of HIE and CDR connectivity and data submission activity monitoring into existing system management and operational change management processes. In addition to daily

activities, processes and resources will also need to be organized to support monthly HIE and CDR maintenance activities and unplanned outages. The information listed below can be used for HIE and CDR operations planning.

5.1 OneHealthPort HIE and CDR System Availability Notifications

Scheduled monthly maintenance windows are posted on [OneHealthPort HIE](#) and [OneHealthPort CDR](#) web pages under the *Maintenance Schedule* section for customer use in operational planning. Non-regularly scheduled maintenance windows and unplanned outages are communicated through email messages to a distribution list to which customers can subscribe. The screen shot below shows where to find maintenance information on the [OneHealthPort HIE web page](#).

The screenshot shows the OneHealthPort HIE website. The top navigation bar includes links for HOME, SINGLE SIGN-ON, HIE, CDR, CREDENTIALING, ADMINIMP, and ABOUT US. Below this is the OneHealthPort | HIE logo. A secondary navigation bar contains links for HIE Home, Contracting, Registration, Transactions, Application Portal, Participants, Support, and About. The main content area features four columns: Contracting, Registration, Transactions, and Application Portal. The Maintenance Schedule section is circled in blue and contains the following text:

Maintenance Schedule

Production maintenance is scheduled monthly for up to a 3-hour outage starting at 7 PM Pacific.

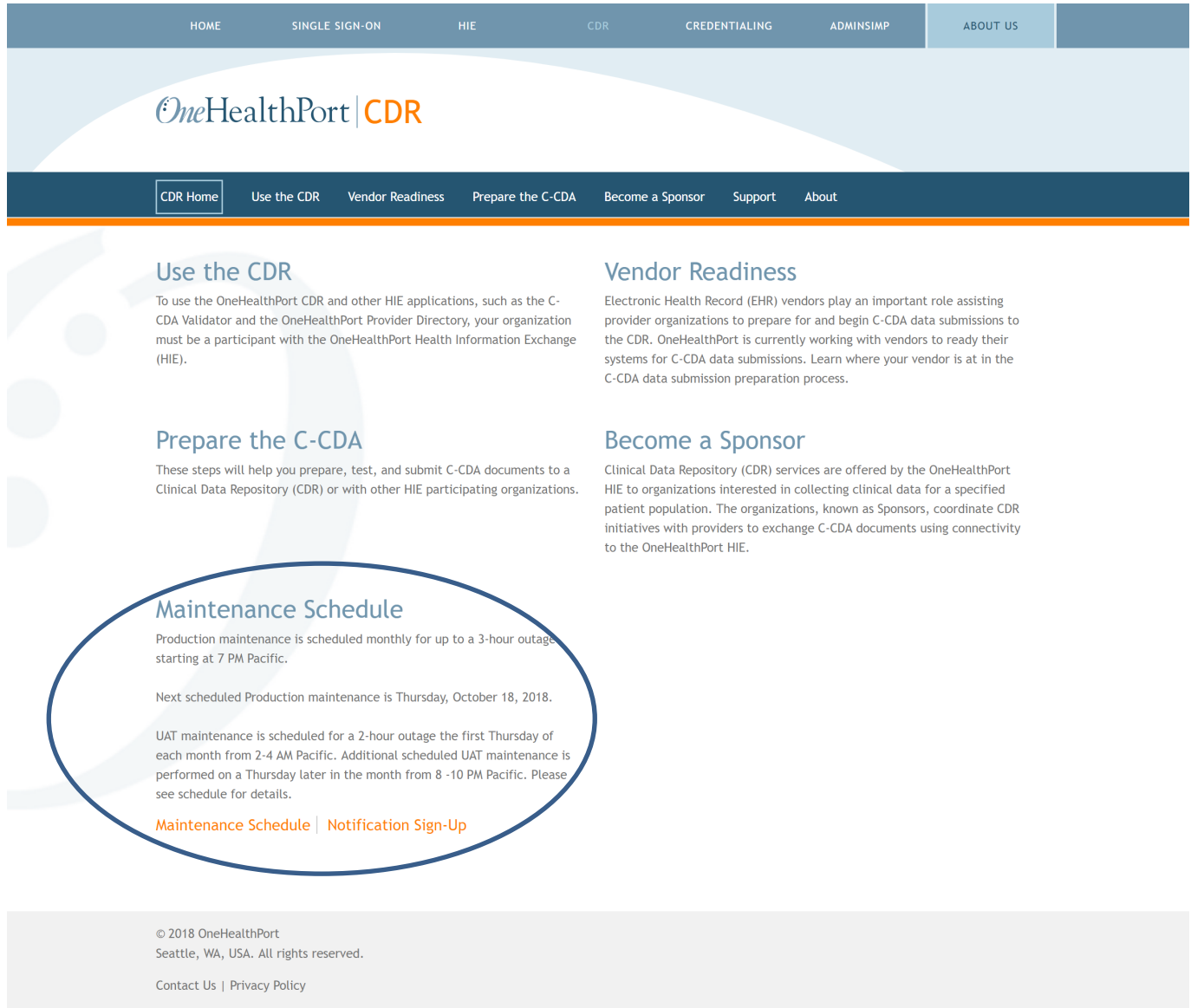
Next scheduled Production maintenance is Thursday, October 18, 2018.

UAT maintenance is scheduled for a 2-hour outage the first Thursday of each month from 2-4 AM Pacific. Additional scheduled UAT maintenance is performed on a Thursday later in the month from 7-9 PM Pacific. Please see schedule for details.

[Maintenance Schedule](#) | [Notification Sign-Up](#)

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The screenshot below shows where to find maintenance information on the [OneHealthPort CDR web page](#).



5.2 OneHealthPort HIE and CDR Support Request Form

Use the OneHealthPort support request form to obtain technical support or assistance with issues related to information exchange activities with the OneHealthPort HIE or the CDR. The support request form is located on the OneHealthPort HIE and CDR web pages. The form is monitored by HIE and CDR technical consultants and business team members to ensure proper resources are quickly deployed to respond to customer issues. Access the support request form [here](#).

6 Appendix

6.1 Transaction Samples

6.1.1 ITI-41 NS- Provide and Register Non-Standard

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:urn="urn:ihe:iti:xds-b:2007"
xmlns:urn1="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0" xmlns:urn2="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"
xmlns:urn3="urn:oasis:names:tc:ebxml-regrep:xsd:rjm:3.0">
<soap:Header />
<soap:Body>
  <urn:ProvideAndRegisterDocumentSetRequest>
    <lcm:SubmitObjectsRequest xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:rs="urn:oasis:names:tc:ebxml-
regrep:xsd:rs:3.0" xmlns:lcm="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0" xmlns:rjm="urn:oasis:names:tc:ebxml-
regrep:xsd:rjm:3.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <rjm:RegistryObjectList>
        <rjm:Identifiable xsi:type="rjm:ExtrinsicObjectType" id="Document01" mimeType="text/xml"
objectType="urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1">
          <rjm:Name>
            <rjm:LocalizedString value="Summarization of Episode Note" />
          </rjm:Name>
          <rjm:Slot name="creationTime">
            <rjm:ValueList>
              <!-- Creates a document with a creation date -->
              <rjm:Value>20161115105928</rjm:Value>
            </rjm:ValueList>
          </rjm:Slot>
          <rjm:Slot name="languageCode">
            <rjm:ValueList>
              <rjm:Value>en-us</rjm:Value>
            </rjm:ValueList>
          </rjm:Slot>
          <rjm:Slot name="sourcePatientId">
            <rjm:ValueList>
              <rjm:Value>Insert CDR Global Identifier here^^^OHP-MPI&amp;
1.3.6.1.4.1.38630.3.99.1.2.1.1.2&amp;ISO^PI</rjm:Value>
            </rjm:ValueList>
          </rjm:Slot>
          <rjm:Classification classificationScheme="urn:uuid:93606bcf-9494-43ec-9b4e-a7748d1a838d"
classifiedObject="Document01">
            <rjm:Slot name="authorPerson">
              <rjm:ValueList>
                <rjm:Value>^sending organization^^^^^^&amp;SendingOrgOID.999.5.2.5&amp;ISO</rjm:Value>
              </rjm:ValueList>
            </rjm:Slot>
          </rjm:Classification>
        <!--XSDDocumentEntry.classCode -->
      </rjm:RegistryObjectList>
    </lcm:SubmitObjectsRequest>
  </urn:ProvideAndRegisterDocumentSetRequest>
</soap:Body>
</soap:Envelope>

```

```

<rim:Classification classificationScheme="urn:uuid:41a5887f-8865-4c09-adf7-e362475b143a"
classifiedObject="Document01" nodeRepresentation="34133-9">
  <rim:Name>
    <rim:LocalizedString value="XSDDocumentEntry.classCode" />
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>LOINC</rim:Value>
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
<!--XSDDocumentEntry.confidentialityCode -->
<rim:Classification classificationScheme="urn:uuid:f4f85eac-e6cb-4883-b524-f2705394840f"
classifiedObject="Document01" nodeRepresentation="N">
  <rim:Name>
    <rim:LocalizedString value="Normal" />
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>2.16.840.1.113883.5.25</rim:Value>
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
<!--XSDDocumentEntry.formatCode -->
<rim:Classification classificationScheme="urn:uuid:a09d5840-386c-46f2-b5ad-9c3699a4309d"
classifiedObject="Document01" nodeRepresentation="CCDA">
  <rim:Name>
    <rim:LocalizedString value="Consolidated CDA" />
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>2.16.840.1.113883.3.37.4.1.9.101</rim:Value>
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
<!-- XSDDocumentEntry.typeCode -->
<rim:Classification classificationScheme="urn:uuid:f0306f51-975f-434e-a61c-c59651d33983"
classifiedObject="Document01" nodeRepresentation="34133-9">
  <rim:Name>
    <rim:LocalizedString value="SUMMARIZATION OF EPISODE NOTE" />
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>LOINC</rim:Value>
      <!-- <rim:Value>2.16.840.1.113883.6.1</rim:Value> -->
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
<!--XSDDocumentEntry.healthCareFacilityTypeCode -->

```

```

<rim:Classification classificationScheme="urn:uuid:f33fb8ac-18af-42cc-ae0e-ed0b0bdb91e1"
classifiedObject="Document01" nodeRepresentation="282N00000X">
  <rim:Name>
    <rim:LocalizedString value="General Acute Care Hospital" />
    <!--<rim:LocalizedString value="65836-9" />-->
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>2.16.840.1.113883.6.101</rim:Value>
      <!--<rim:Value>2.16.840.1.113883.6.101</rim:Value>-->
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
<!--XSDDocumentEntry.practiceSettingCode, AKA Speciality -->
<rim:Classification classificationScheme="urn:uuid:cccf5598-8b07-4b77-a05e-ae952c785ead"
classifiedObject="Document01" nodeRepresentation="282N00000X">
  <rim:Name>
    <rim:LocalizedString value="General Acute Care Hospital" />
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <rim:Value>2.16.840.1.113883.6.101</rim:Value>
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
<!-- XSDDocumentEntry.patientId -->
<rim:ExternalIdentifier identificationScheme="urn:uuid:58a6f841-87b3-4a3e-92fd-a8ffeff98427"
registryObject="Document01" value="CDR Global Id^^OHP-MPI&amp;1.3.6.1.4.1.38630.3.99.1.2.1.1.2&amp;ISO^PI">
  <rim:Name>
    <rim:LocalizedString value="XSDDocumentEntry.patientId" />
  </rim:Name>
</rim:ExternalIdentifier>
<!-- XSDDocumentEntry.uniqueId -->
<rim:ExternalIdentifier identificationScheme="urn:uuid:2e82c1f6-a085-4c72-9da3-8640a32e42ab"
registryObject="Document01" value="1.3.6.1.4.1.22812.4.108.0.2000.3.1479500706949">
  <rim:Name>
    <rim:LocalizedString value="XSDDocumentEntry.uniqueId" />
  </rim:Name>
</rim:ExternalIdentifier>
</rim:Identifiable>
<!-- add submission set, this section for DocumentRegistry -->
<rim:Identifiable xsi:type="rim:RegistryPackageType" id="SubmissionSet01">
  <rim:Slot name="submissionTime">
    <rim:ValueList>
      <rim:Value>20161115105928</rim:Value>
    </rim:ValueList>
  </rim:Slot>
  <!--submission set authorPerson -->

```

```

<rim:Classification classificationScheme="urn:uuid:a7058bb9-b4e4-4307-ba5b-e3f0ab85e12d"
classifiedObject="SubmissionSet01">
  <rim:Slot name="authorPerson">
    <rim:ValueList>
      <rim:Value>Author^Title^^^^^^&SendingOrgOID.999.1.1.2&ISO</rim:Value>
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
<!--XDSSubmissionSet.contentTypeCode -->
<rim:Classification classificationScheme="urn:uuid:aa543740-bdda-424e-8c96-df4873be8500"
classifiedObject="SubmissionSet01" nodeRepresentation="34133-9">
  <rim:Name>
    <rim:LocalizedString value="Summarization of Episode Note"/>
  </rim:Name>
  <rim:Slot name="codingScheme">
    <rim:ValueList>
      <!-- <rim:Value>2.16.840.1.113883.6.1</rim:Value> -->
      <rim:Value>LOINC</rim:Value>
    </rim:ValueList>
  </rim:Slot>
</rim:Classification>
<!-- XDSSubmissionSet.uniqueId -->
<rim:ExternalIdentifier identificationScheme="urn:uuid:96fdda7c-d067-4183-912e-bf5ee74998a8"
value="1.3.6.1.4.1.22812.4.108.0.3000.3.1479500706949">
  <rim:Name>
    <rim:LocalizedString value="XDSSubmissionSet.uniqueId" />
  </rim:Name>
</rim:ExternalIdentifier>
<!-- XDSSubmissionSet.sourceId -->
<rim:ExternalIdentifier identificationScheme="urn:uuid:554ac39e-e3fe-47fe-b233-965d2a147832" value="Insert OHP
organization assigned OID or mapped OID">
  <rim:Name>
    <rim:LocalizedString value="XDSSubmissionSet.sourceId" />
  </rim:Name>
</rim:ExternalIdentifier>
<!-- XDSSubmissionSet.patientId -->
<rim:ExternalIdentifier identificationScheme="urn:uuid:6b5aea1a-874d-4603-a4bc-96a0a7b38446" value="CDR Global
Id^^^OHP-MPI&1.3.6.1.4.1.38630.3.99.1.2.1.1.2&ISO^PI">
  <rim:Name>
    <rim:LocalizedString value="XDSSubmissionSet.patientId" />
  </rim:Name>
</rim:ExternalIdentifier>
</rim:Identifiable>
<rim:Classification classifiedObject="SubmissionSet01" classificationNode="urn:uuid:a54d6aa5-d40d-43f9-88c5-
b4633d873bdd" />
<!-- Associate SubmissionSet01 to Document01-->
<rim:Association associationType="urn:oasis:names:tc:ebxml-regrep:AssociationType:HasMember"
sourceObject="SubmissionSet01" targetObject="Document01">
  <rim:Slot name="SubmissionSetStatus">

```

```

        <rim:ValueList>
            <rim:Value>Original</rim:Value>
        </rim:ValueList>
    </rim:Slot>
</rim:Association>
</rim:RegistryObjectList>
</lcm:SubmitObjectsRequest>
<!-- This is a clinical document -->
<urn:Document id="Document01"> [Base64 encoded document is inserted here]
    </urn:Document>
</urn:ProvideAndRegisterDocumentSetRequest>
</soap:Body>
</soap:Envelope>

```

6.2 Provide and Register Transaction Response Message Samples

6.2.1 Success Response Sample

The CDR system sends HTTP 200 messages when a web services transaction crosses all the way to the CDR system. A **200 message** sample is shown below:

```

<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
    <soap:Header>
        <Action xmlns="http://www.w3.org/2005/08/addressing">urn:ihe:iti:2007:ProvideAndRegisterDocumentSet-
bResponse</Action>
        <MessageID xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:9c763d6a-5af8-4610-a9bf-
1585ed9a1054</MessageID>
        <To
xmlns="http://www.w3.org/2005/08/addressing">http://www.w3.org/2005/08/addressing/anonymous</To>
        <RelatesTo xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:4df59bfb-0386-4fad-bc32-
59b89811c279</RelatesTo>
    </soap:Header>
    <soap:Body>
        <ns3:RegistryResponse xmlns:ns6="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0"
xmlns:ns5="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0" xmlns:ns4="urn:ihe:iti:xds-b:2007"
xmlns:ns3="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0" xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success"/>
    </soap:Body>
</soap:Envelope>

```

6.2.2 Provide and Register Transaction Error Response Samples

The CDR system has quite an extensive list of provide and register transaction response errors, many depending on the content in the transaction sent to the CDR. The most common error responses are shown below.

Blocked Message Error (500)

A **500 error** is sent when a message is blocked from crossing to the CDR because of certificate validation and mutual authentication issues, or the signature is not recognized. This message means the submitted transaction did not reach the CDR. A sample of this message content is shown below:

```
<?xml version="1.0" encoding="UTF-8"?>
<env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope">
  <env:Header>
</env:Header>
  <env:Body>
    <env:Fault>
      <env:Code>
        <env:Value>env:Receiver
        </env:Value>
        <env:Subcode>
          <env:Value xmlns:fault="http://www.vordel.com/soapfaults">fault:MessageBlocked
          </env:Value>
        </env:Subcode>
      </env:Code>
      <env:Reason>
</env:Reason>
      <env:Detail xmlns:fault="http://www.vordel.com/soapfaults" fault:type="faultDetails">
</env:Detail>
    </env:Fault>
  </env:Body>
</env:Envelope>
```

Sample web service error message with single validation error:

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns="urn:hl7-org:v3">
  <soap:Body>
    <ns3:RegistryResponse xmlns:ns3="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0" xmlns:ns2="urn:oasis:names:tc:ebxml-
regrep:xsd:rim:3.0" xmlns:ns4="urn:ihe:iti:xds-b:2007" xmlns:ns5="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0"
xmlns:ns6="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0" status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Failure">
      <ns3:RegistryErrorList highestSeverity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error">
        <ns3:RegistryError codeContext="The clinical document you submitted to the CDR on Fri Feb 15
10:56:36 PST 2019, , has failed the CDA R2 base standard conformance. To see the actual error validation content submit your document to
our CCDA validator at https://identity.onehealthport.com/EmpowerIDWebIDPForms/Login/VALIDATOR to get detailed error information.
The validation error(s) in your file follow: CCD Validation Error: lineNumber: 33; columnNumber: 202; cvc-pattern-valid: Value `Not a valid
code` is not facet-valid with respect to pattern `[^\s]+` for type `cs`. CCD Validation Error: lineNumber: 33; columnNumber: 202; cvc-
attribute.3: The value `Not a valid code` of attribute `code` on element `religiousAffiliationCode` is not valid with respect to its type, `cs`. "
errorCode="InvalidDocumentContent" severity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error"/>
      </ns3:RegistryErrorList>
    </ns3:RegistryResponse>
  </soap:Body>
```

```
</soap:Envelope>
```

Sample web service error message with multiple validation errors:

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns="urn:hl7-org:v3">
  <soap:Body>
    <ns3:RegistryResponse xmlns:ns3="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0" xmlns:ns2="urn:oasis:names:tc:ebxml-
regrep:xsd:rim:3.0" xmlns:ns4="urn:ihe:iti:xds-b:2007" xmlns:ns5="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0"
xmlns:ns6="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0" status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Failure">
      <ns3:RegistryErrorList highestSeverity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error">
        <ns3:RegistryError codeContext="The clinical document you submitted to the CDR on Fri Feb 15
10:57:39 PST 2019, , has failed the CDA R2 base standard conformance. To see the actual error validation content submit your document to
our CCDa validator at https://identity.onehealthport.com/EmpowerIDWebIdPForms/Login/VALIDATOR to get detailed error information.
The validation error(s) in your file follow: CCD Validation Error: lineNumber: 32; columnNumber: 153; cvc-pattern-valid: Value `Not a valid
code` is not facet-valid with respect to pattern `[^\s]` for type `cs`. CCD Validation Error: lineNumber: 32; columnNumber: 153; cvc-
attribute.3: The value `Not a valid code` of attribute `code` on element `maritalStatusCode` is not valid with respect to its type, `cs`. CCD
Validation Error: lineNumber: 34; columnNumber: 202; cvc-pattern-valid: Value `Not a valid code` is not facet-valid with respect to pattern
`[^\s]` for type `cs`. CCD Validation Error: lineNumber: 34; columnNumber: 202; cvc-attribute.3: The value `Not a valid code` of attribute
`code` on element `religiousAffiliationCode` is not valid with respect to its type, `cs`. CCD Validation Error: lineNumber: 36; columnNumber:
151; cvc-pattern-valid: Value `Not a valid code` is not facet-valid with respect to pattern `[^\s]` for type `cs`. CCD Validation Error:
lineNumber: 36; columnNumber: 151; cvc-attribute.3: The value `Not a valid code` of attribute `code` on element `raceCode` is not valid
with respect to its type, `cs`. CCD Validation Error: lineNumber: 38; columnNumber: 175; cvc-pattern-valid: Value `Not a valid code` is not
facet-valid with respect to pattern `[^\s]` for type `cs`. CCD Validation Error: lineNumber: 38; columnNumber: 175; cvc-attribute.3: The
value `Not a valid code` of attribute `code` on element `ethnicGroupCode` is not valid with respect to its type, `cs`. "
errorCode="InvalidDocumentContent" severity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error"/>
      </ns3:RegistryErrorList>
    </ns3:RegistryResponse>
  </soap:Body>
</soap:Envelope>
```

Sample web service error message with multiple error types – patient match and multiple validation errors:

```
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns="urn:hl7-org:v3">
  <soap:Body>
    <ns3:RegistryResponse xmlns:ns3="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0" xmlns:ns2="urn:oasis:names:tc:ebxml-
regrep:xsd:rim:3.0" xmlns:ns4="urn:ihe:iti:xds-b:2007" xmlns:ns5="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0"
xmlns:ns6="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0" status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Failure">
      <ns3:RegistryErrorList highestSeverity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error">
        <ns3:RegistryError codeContext="Unknown Patient Id [XXX] specified in request"
errorCode="XDSUnknownPatientId" severity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error"/>
        <ns3:RegistryError codeContext="The clinical document you submitted to the CDR on Fri Feb 15
10:56:36 PST 2019, , has failed the CDA R2 base standard conformance. To see the actual error validation content submit your document to
our CCDa validator at https://identity.onehealthport.com/EmpowerIDWebIdPForms/Login/VALIDATOR to get detailed error information.
The validation error(s) in your file follow: CCD Validation Error: lineNumber: 33; columnNumber: 153; cvc-pattern-valid: Value `Not a valid
code` is not facet-valid with respect to pattern `[^\s]` for type `cs`. CCD Validation Error: lineNumber: 33; columnNumber: 153; cvc-
attribute.3: The value `Not a valid code` of attribute `code` on element `maritalStatusCode` is not valid with respect to its type, `cs`. CCD
Validation Error: lineNumber: 35; columnNumber: 202; cvc-pattern-valid: Value `Not a valid code` is not facet-valid with respect to pattern
`[^\s]` for type `cs`. CCD Validation Error: lineNumber: 35; columnNumber: 202; cvc-attribute.3: The value `Not a valid code` of attribute
```

```

`code` on element `religiousAffiliationCode` is not valid with respect to its type, `cs`. CCD Validation Error: lineNumber: 37; columnNumber: 151; cvc-pattern-valid: Value `Not a valid code` is not facet-valid with respect to pattern `[^\s]+` for type `cs`. CCD Validation Error: lineNumber: 37; columnNumber: 151; cvc-attribute.3: The value `Not a valid code` of attribute `code` on element `raceCode` is not valid with respect to its type, `cs`. CCD Validation Error: lineNumber: 39; columnNumber: 175; cvc-pattern-valid: Value `Not a valid code` is not facet-valid with respect to pattern `[^\s]+` for type `cs`. CCD Validation Error: lineNumber: 39; columnNumber: 175; cvc-attribute.3: The value `Not a valid code` of attribute `code` on element `ethnicGroupCode` is not valid with respect to its type, `cs`. "
errorCode="InvalidDocumentContent" severity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error"/>
      </ns3:RegistryErrorList>
    </ns3:RegistryResponse>
  </soap:Body>
</soap:Envelope>

```

Other Errors encountered not specifically identified (599)

There are multiple other errors that could occur that have not been specifically delineated with a unique “500 range” number assignment. These will return as **599 errors**. Submitters in receipt of a 599 error response where they are unable to discern the underlying problem should contact OneHealthPort for assistance. The sample below shows a 599 error that generated when a required section of the ITI41 was missing from the web services transaction:

```

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope">
  <soap:Body>
    <ns3:RegistryResponse xmlns:ns6="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0"
xmlns:ns5="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0" xmlns:ns4="urn:ihe:iti:xds-b:2007"
xmlns:ns3="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0" xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rjm:3.0"
status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Failure">
      <ns3:RegistryErrorList highestSeverity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error">
        <ns3:RegistryError codeContext="Document Metadata is missing for a DocumentContent
with id[1A]" errorCode="XDSMissingDocumentMetadata" severity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error"/>
      </ns3:RegistryErrorList>
    </ns3:RegistryResponse>
  </soap:Body>
</soap:Envelope>

```