**Cerner PDF to Resonance Requirements**

**Version 1.0**

**Prepared By: Jerome Starke**

**Date: 6/13/2017**

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# **Document Control**

## Resources

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Email** |
| Jerome Starke | BayCare Integration Analyst – FSI | Jerome.starke@baycare.org |
|  |  |  |
|  |  |  |
|  |  |  |
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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 6/13/2017 | Jerome Starke | Originally Created |
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|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

This document will define the communication protocol, message structure, and special business logic for the PDFs from Cerner to Resonance interfaces. This document will be used to complete the build and to denote all changes to the initial requirements. The intended audience is developers and business owners.

## 1.2 Project Scope

This interface will facilitate the automation of sending PDFs from Cerner Millennium into Cerner Resonance/CommonWell.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

PIX Patient Identifier Cross-Referencing

### 1.3.2 Glossary

List the terms that require definition with respect to Cloverleaf and the product whose requirements are defined in this document. The definitions are specific to this document and may not be identical to the definitions of these terms in common use.

## 1.4 Document References

* + Document Exchange with Resonance Reference Pages

<https://wiki.ucern.com/display/reference/Document+Exchange+with+Resonance+Reference+Pages>

* + All About Data Reconciliation

<https://wiki.ucern.com/display/public/reference/All+About+Data+Reconciliation>

* + All About Document Sharing

<https://wiki.ucern.com/display/public/reference/All+About+Document+Sharing>

* + Configure XDS Document Exchange

<https://wiki.ucern.com/display/reference/Configure+XDS+Document+Exchange>

* + Cloud Status Dashboard (Downtime Notifications)

CSD Wiki - <https://wiki.ucern.com/display/public/30olympusHP/Cloud+Status+Dashboard>

CSD - <https://cloudstatus.cernerworks.com/topics>

* + Document Transaction Server (SCP 508)

[https://wiki.ucern.com/display/public/reference/Document+Transaction+Server+%28SCP+508%29](https://wiki.ucern.com/display/public/reference/Document+Transaction+Server+(SCP+508))

* + Configure Parsing Received CDA for Data Reconciliation

<https://wiki.ucern.com/display/public/reference/Configure+Parsing+Received+CDA+for+Data+Reconciliation>

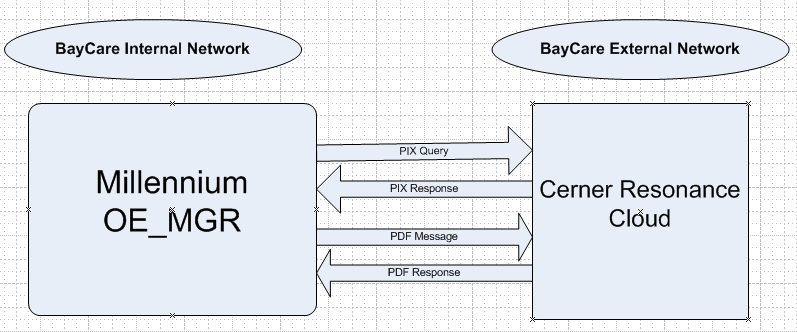
* + Troubleshooting

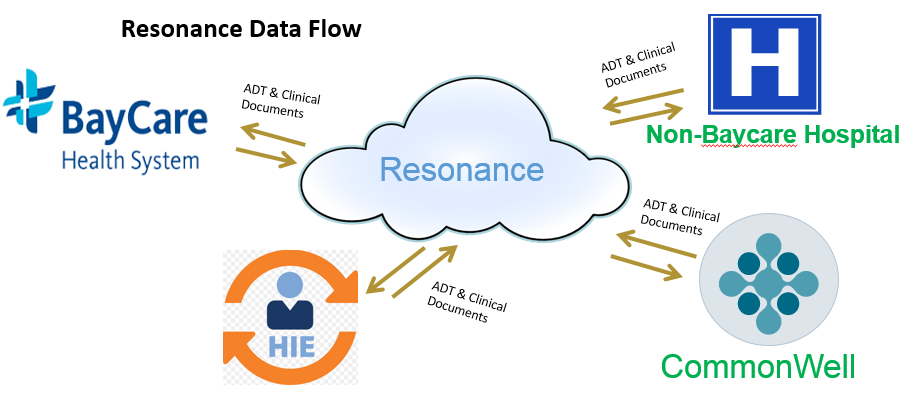
[https://wiki.ucern.com/display/reference/Configure+XDS+Document+Exchange#ConfigureXDSDocumentExchange-Troubleshooting](https://wiki.ucern.com/display/reference/Configure+XDS+Document+Exchange)

* + CommonWell uCern Group  
    <https://connect.ucern.com/groups/commonwell-health-alliance-collaborative>

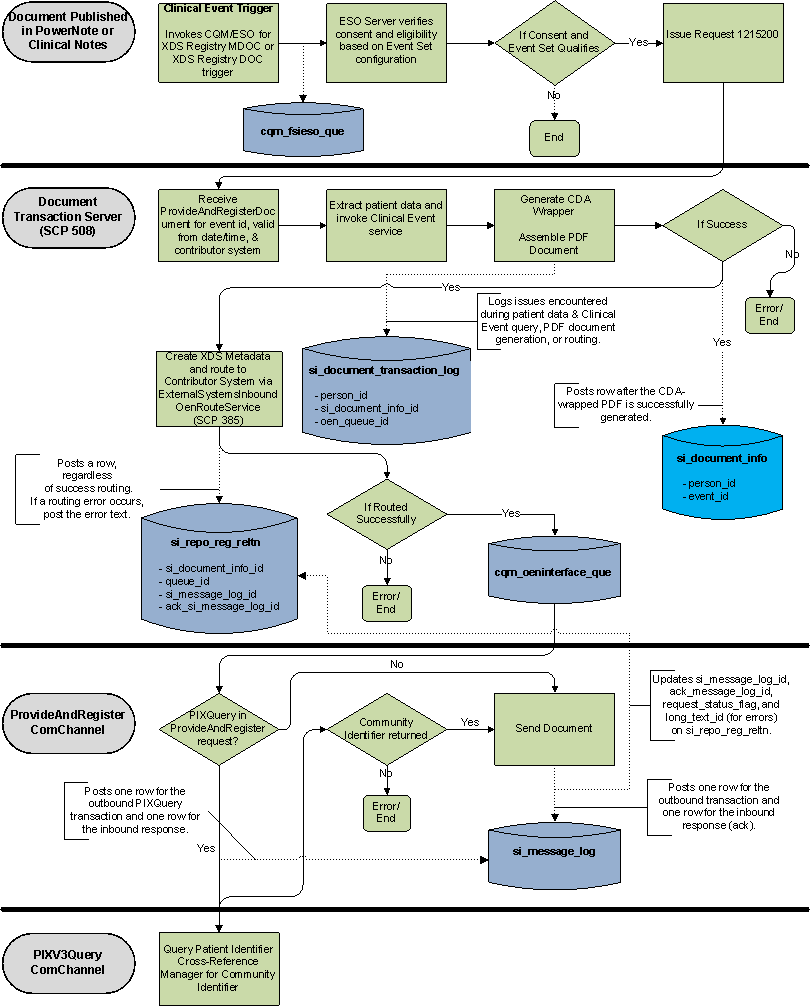
# 2. Diagram

A document (H&P, etc) is signed in Cerner and generates a PIX Query message. The PIX query is sent to Resonance to see if the patient is in Resonance and if present a PIX response is sent back of OK. If OK is received, the PDF message is passed to Resonance and if processed successfully Resonance will return a response of ResponseStatusType:Success.





**Detailed PDF Flow Diagram:**



# 3. Requirements

## 3.1 Functional Requirements

Provide detail for the below functional requirements. The message transformation requirements for the components defined in this specification should be specified in section 4.2 of this document.

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| FR.2017.6.0 | Patient Consent | Patient must have consent to send PDF outbound to Resonance/CommonWell |
| FR.2017.6.1 | XDS Triggers On | There are ESO triggers for XDS Documents that must be enabled |
| FR.2017.6.2 | Documents Aliased | LOINC aliases need to be added to documents for them to go outbound |
| FR.2017.6.3 | SI\_Manager Org-Doc Relation | In SI\_manager, under device settings for the contributor system the org and documents allowed have to be configured. |

## 3.2 Non-Functional Requirements

Provide concise detail for the below non-functional requirements. The below requirements must be evaluated for every project.

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| NFR.20XX.1.0 | Click here to enter text. | Click here to enter text. |

## 3.3 Messaging Protocols

Below are listed the details for the messaging protocols that will be leveraged for this integration.

### 3.3.1 OE\_MGR PIX Query Outbound to Resonance

* HTTPS
* 

### 3.3.2 Inbound PIX Response OE\_MGR

* HTTPS
* 

### 3.3.3 OE\_MGR PDF Outbound to Resonance

* HTTPS
* 

### 3.3.4 Inbound PDF Response to OE\_MGR

* HTTPS
* 

# 4. HL7 Messaging

## 4.1 Messaging Format

### 4.1.1 Segments

The segments utilized for this interface are:

*<?xml version="1.0"?>*

*<soap:Envelope*

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

*soap:encodingStyle="http://www.w3.org/2003/05/soap-encoding">*

*<soap:Header>*

*...*

*</soap:Header>*

*<soap:Body>*

*...*

*<soap:Fault>*

*...*

*</soap:Fault>*

*</soap:Body>*

*</soap:Envelope>*

### 4.1*.*2 Messaging Event Types

Below are the messages types necessary for this integration

|  |  |
| --- | --- |
| **Event Type** | **Description** |
|  |  |
|  |  |
|  |  |

### 4.1*.*3 Cloverleaf Configuration Files

NA

### 4.1.4 Cloverleaf Site Location

NA

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
| --- | --- | --- | --- | --- | --- |
|  | MSH:XX.XX |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

RAW data sent for all messages.

## 4.3 Sample Message

**PIX Query Outbound:**

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

- <soap:Header>

- <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" soap:mustUnderstand="**true**">

<wsse:BinarySecurityToken EncodingType="**http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Binary**" ValueType="**http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509v3**" wsu:Id="**X509-ef59bbb6-e197-4dbf-94cd-34fbb477f48b**"></wsse:BinarySecurityToken>

- <ds:Signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#" Id="**SIG-14a247c8-96b0-43c7-9675-f0ffeb01062d**">

- <ds:SignedInfo>

- <ds:CanonicalizationMethod Algorithm="**http://www.w3.org/2001/10/xml-exc-c14n#**">

<ec:InclusiveNamespaces xmlns:ec="http://www.w3.org/2001/10/xml-exc-c14n#" PrefixList="**soap**" />

</ds:CanonicalizationMethod>

<ds:SignatureMethod Algorithm="**http://www.w3.org/2000/09/xmldsig#rsa-sha1**" />

- <ds:Reference URI="**#id-589f5b65-83f2-4abe-8163-4c4c10ef181c**">

- <ds:Transforms>

<ds:Transform Algorithm="**http://www.w3.org/2001/10/xml-exc-c14n#**" />

</ds:Transforms>

<ds:DigestMethod Algorithm="**http://www.w3.org/2000/09/xmldsig#sha1**" />

<ds:DigestValue>cMGECkaabHTUinrCvghL0lr1e3E=</ds:DigestValue>

</ds:Reference>

</ds:SignedInfo>

<ds:SignatureValue>hCdg6StO5GE13zyQjNFIFOhUg/dQ3yNK/1o7GCpzM90eiv1/NsNT6FkHf2F6/VtR426JG+NaUSr5vmNzgTNyVZWN+vwBPDCktoVFjMkgd6RcENXeK4iVYq6zukRe2SPd5ptcs/lwzZWw+xlx1pfIoYt9sWcW6MMrmyUzcrASJaAFjCLOalJiVse4L3vtUD7MCWDHco2+4ahPBrH2f8kveknyMu61Nx+JSLkUnmh11hTD3wLrxBv2pJ2o93g6XE7RiOIunIC7XEtPk/RwL/QfsgA7x5H8yRcqkKM2JnEBAG+emNKgv18BOS65g2lazAMfi95ucj4XVqLxic9QlZGZkg==</ds:SignatureValue>

- <ds:KeyInfo Id="**KI-c402bf23-e235-497d-89ba-f77a7f6f6a50**">

- <wsse:SecurityTokenReference xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" wsu:Id="**STR-6e97aa84-2fd1-4370-b764-6ca1a3e486f3**">

<wsse:Reference URI="**#X509-ef59bbb6-e197-4dbf-94cd-34fbb477f48b**" ValueType="**http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509v3**" />

</wsse:SecurityTokenReference>

</ds:KeyInfo>

</ds:Signature>

- <wsu:Timestamp wsu:Id="**TS-f4db9562-ad30-4563-b453-6d7505d2d50d**">

<wsu:Created>2017-05-10T17:40:49Z</wsu:Created>

<wsu:Expires>2017-05-10T17:45:49Z</wsu:Expires>

</wsu:Timestamp>

</wsse:Security>

<Action xmlns="http://www.w3.org/2005/08/addressing" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" soap:mustUnderstand="**true**" wsu:Id="**id-589f5b65-83f2-4abe-8163-4c4c10ef181c**">urn:hl7-org:v3:PRPA\_IN201309UV02</Action>

<MessageID xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:1cd84407-6aef-48e0-8a25-474e6c7e6ef4</MessageID>

<To xmlns="http://www.w3.org/2005/08/addressing" soap:mustUnderstand="**true**">https://cert.cernerresonance.com:9443/pixpdq-manager/2.16.840.1.113883.3.1106.10000</To>

- <ReplyTo xmlns="http://www.w3.org/2005/08/addressing" soap:mustUnderstand="**true**">

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

</ReplyTo>

</soap:Header>

- <soap:Body>

- <ns6:PRPA\_IN201309UV02 xmlns="urn:ihe:iti:xds-b:2007" xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0" xmlns:ns3="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0" xmlns:ns4="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0" xmlns:ns5="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0" xmlns:ns6="urn:hl7-org:v3">

<ns6:id root="**a026d6a4-ea0d-48cc-819b-510ea9aad243**" />

<ns6:creationTime value="**20170510174049**" />

<ns6:interactionId extension="**PRPA\_IN201309UV02**" root="**2.16.840.1.113883.1.6**" />

<ns6:processingCode code="**P**" />

<ns6:processingModeCode code="**T**" />

<ns6:acceptAckCode code="**AL**" />

<ns6:receiver typeCode="**RCV**" />

- <ns6:sender typeCode="**SND**">

- <ns6:device classCode="**DEV**" determinerCode="**INSTANCE**">

<ns6:id root="**2.16.840.1.113883.3.1106.650.999338**" />

- <ns6:asAgent classCode="**AGNT**">

- <ns6:representedOrganization classCode="**ORG**" determinerCode="**INSTANCE**">

<ns6:id root="**2.16.840.1.113883.3.1106.650**" />

</ns6:representedOrganization>

</ns6:asAgent>

</ns6:device>

</ns6:sender>

- <ns6:controlActProcess classCode="**CACT**" moodCode="**EVN**">

<ns6:code code="**PRPA\_TE201309UV02**" codeSystem="**2.16.840.1.113883.1.6**" />

- <ns6:queryByParameter>

<ns6:queryId root="**a8282e10-8cdc-4a8f-9293-91f4fa227f42**" />

<ns6:statusCode code="**new**" />

<ns6:responsePriorityCode code="**new**" />

- <ns6:parameterList>

- <ns6:dataSource>

<ns6:value root="**2.16.840.1.113883.3.1106.10000.1**" />

<ns6:semanticsText>DataSource.Id</ns6:semanticsText>

</ns6:dataSource>

- <ns6:patientIdentifier>

<ns6:value extension="**810012281**" root="**2.16.840.1.113883.3.1106.21**" />

<ns6:semanticsText>Patient.Id</ns6:semanticsText>

</ns6:patientIdentifier>

</ns6:parameterList>

</ns6:queryByParameter>

</ns6:controlActProcess>

</ns6:PRPA\_IN201309UV02>

</soap:Body>

</soap:Envelope>

**PIX Query Response:**

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

- <ns6:PRPA\_IN201310UV02 xmlns:ns6="urn:hl7-org:v3" xmlns="urn:ihe:iti:xds-b:2007" xmlns:ns2="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0" xmlns:ns3="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0" xmlns:ns4="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0" xmlns:ns5="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0">

<ns6:interactionId root="**2.16.840.1.113883.1.6**" extension="**PRPA\_IN201310UV02**" />

<ns6:processingModeCode code="**T**" />

<ns6:acceptAckCode code="**NE**" />

- <ns6:receiver typeCode="**RCV**">

- <ns6:device classCode="**DEV**" determinerCode="**INSTANCE**">

<ns6:id root="**2.16.840.1.113883.3.1106.650.999338**" />

- <ns6:asAgent classCode="**AGNT**">

- <ns6:representedOrganization classCode="**ORG**" determinerCode="**INSTANCE**">

<ns6:id root="**2.16.840.1.113883.3.1106.650**" />

</ns6:representedOrganization>

</ns6:asAgent>

</ns6:device>

</ns6:receiver>

- <ns6:acknowledgement>

<ns6:typeCode code="**AA**" />

- <ns6:targetMessage>

<ns6:id root="**a026d6a4-ea0d-48cc-819b-510ea9aad243**" />

</ns6:targetMessage>

</ns6:acknowledgement>

- <ns6:controlActProcess classCode="**CACT**" moodCode="**EVN**">

<ns6:code code="**PRPA\_IN201310UV02**" />

- <ns6:subject>

- <ns6:registrationEvent>

- <ns6:subject1>

- <ns6:patient classCode="**PAT**">

<ns6:id root="**2.16.840.1.113883.3.1106.10000.1**" extension="**fc53ec84-71f7-4032-a911-6e72f4390a96**" />

<ns6:statusCode code="**active**" />

- <ns6:patientPerson classCode="**PSN**" determinerCode="**INSTANCE**">

- <ns6:name use="**L**">

<ns6:given partType="**GIV**">FIFTEEN</ns6:given>

<ns6:family partType="**FAM**">MAYTEST</ns6:family>

</ns6:name>

</ns6:patientPerson>

</ns6:patient>

</ns6:subject1>

<ns6:custodian xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="**true**" />

</ns6:registrationEvent>

</ns6:subject>

- <ns6:queryAck>

<ns6:queryId root="**a8282e10-8cdc-4a8f-9293-91f4fa227f42**" />

<ns6:queryResponseCode code="**OK**" />

</ns6:queryAck>

- <ns6:queryByParameter>

<ns6:queryId root="**a8282e10-8cdc-4a8f-9293-91f4fa227f42**" />

- <ns6:parameterList>

- <ns6:dataSource>

<ns6:value root="**2.16.840.1.113883.3.1106.10000.1**" />

</ns6:dataSource>

- <ns6:patientIdentifier>

<ns6:value root="**2.16.840.1.113883.3.1106.21**" extension="**810012281**" />

</ns6:patientIdentifier>

</ns6:parameterList>

</ns6:queryByParameter>

</ns6:controlActProcess>

</ns6:PRPA\_IN201310UV02>

**PDF Outbound:**

--uuid:b1544522-3382-4c44-8de1-0488bfd2ee21

Content-Type: application/xop+xml; charset=UTF-8; type="application/soap+xml; action=\"urn:ihe:iti:2007:ProvideAndRegisterDocumentSet-b\""

Content-Transfer-Encoding: binary

Content-ID: <root.message@cxf.apache.org>

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"><soap:Header><wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" soap:mustUnderstand="true"><wsse:BinarySecurityToken EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Binary" ValueType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509v3" wsu:Id="X509-f9b84bd6-32b8-4372-934d-d5f5070bf650"></wsse:BinarySecurityToken><ds:Signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#" Id="SIG-04b8dd78-3db9-49af-b915-4e550f3a74e0"><ds:SignedInfo><ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"><ec:InclusiveNamespaces xmlns:ec="http://www.w3.org/2001/10/xml-exc-c14n#" PrefixList="soap"/></ds:CanonicalizationMethod><ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/><ds:Reference URI="#id-645172ea-a891-496d-a06f-cc21578e04e9"><ds:Transforms><ds:Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/></ds:Transforms><ds:DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/><ds:DigestValue>/JtJAktUhheSJoXAUkJBfmU+sZE=</ds:DigestValue></ds:Reference></ds:SignedInfo><ds:SignatureValue>X3BSe+Mi/fA/rYP0WaAyzLpKwL3M34d7pX1asNzbtad/BEEE1ZuqBrlUb1lkUs7qdRmFWjh2nQCVVyFTWtGZ32yRi1cFQhgqTSWNRG0soVwgaAwU5XodeIPz/Ou1RMOIgenkemYhYsVbq3k3fiPVVnURzgPTZsQ0JtcLYkxQfAybhDlU5KZcCbRVL7BjdE5v8r3PaLprnzrVd6QznSARvVXf70VwD24exQCtYWUKuD0eKferA5xGdadlYVqNbHy7vmb+J7dYuT2qhJrAoMqdEm134zGsTCdDr/jK6PoprQzY9BcZdy2tIypiAsZQDhROax+KGW/QdAw5QApzg+VcfA==</ds:SignatureValue><ds:KeyInfo Id="KI-74a8ae52-8883-4032-8944-c97ce6400ef2"><wsse:SecurityTokenReference xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" wsu:Id="STR-1d251e7a-4176-467b-87e4-3c7faaf54cb4"><wsse:Reference URI="#X509-f9b84bd6-32b8-4372-934d-d5f5070bf650" ValueType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-x509-token-profile-1.0#X509v3"/></wsse:SecurityTokenReference></ds:KeyInfo></ds:Signature><wsu:Timestamp wsu:Id="TS-44b52941-ff66-49d7-9c8c-dbd7741510a4"><wsu:Created>2017-06-13T04:03:37Z</wsu:Created><wsu:Expires>2017-06-13T04:08:37Z</wsu:Expires></wsu:Timestamp></wsse:Security><Action xmlns="http://www.w3.org/2005/08/addressing" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" soap:mustUnderstand="true" wsu:Id="id-645172ea-a891-496d-a06f-cc21578e04e9">urn:ihe:iti:2007:ProvideAndRegisterDocumentSet-b</Action><MessageID xmlns="http://www.w3.org/2005/08/addressing">urn:uuid:21f30c54-4a43-474f-914b-e23dac8a89a5</MessageID><To xmlns="http://www.w3.org/2005/08/addressing" 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**PDF Response:**

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# 5. Alerts

Are you going to need alerting on this connection?

|  |  |
| --- | --- |
| Yes |  |
| No |  |

If the answer is yes, please complete the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Site Name** | **Hours of Support** | **Distribution Group** | **Comments** |
|  |  |  |  |
|  |  |  |  |

# Appendix A: Risks and Concerns

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** |  |  | | |  |  |  |  |
| **Number** | **Risk / Concern** | **Comment** | **Mitigation** | | |  |  |  |
| RC.2013.1.0 |  |  | |  | |  |  |  |

# Appendix B: Issues List

This is a dynamic list of the open issues related to the IDBB that remain to be solved, including but not limited to TBDs, pending decisions, information needed, conflict awaiting resolution, and the like.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** |  |  | | |  |  |  |  |
| **Number** | **Issue** | **Comment** | **Fix** | | |  |  |  |
| I.2013.1.0 |  |  | |  | |  |  |  |

NOTE:

**Cerner Support SRs**

* For consistent support, please log a Cerner service request with the below information and it will be triaged as necessary.
* For interface (comchannels / comservers/ OEManager / si\_manager/Provide and Register ops job) issues:
  + Solution: Foreign Systems Interface
* For issues with the Data Reconciliation mPage:
  + Solution: Powerchart Clinical Data Rep

For issues with Outside Records Viewer (Summary tab):

* + Solution: Clinical Exchange
* End of document