**ORM\_GE Centricity IDX\_ViewPoint**

**Version 1.1**

**Prepared By: Art Schwartz**

**3/26/2018**

[Document Control 3](#_Toc500943978)

[Resources 3](#_Toc500943979)

[Project Distribution List 3](#_Toc500943980)

[Document Version Control 3](#_Toc500943981)

[1. Introduction 4](#_Toc500943982)

[1.1 Purpose 4](#_Toc500943983)

[1.2 Project Scope 4](#_Toc500943984)

[1.3 Terminology Standards 4](#_Toc500943985)

[1.3.1 Acronyms 4](#_Toc500943986)

[1.3.2 Glossary 4](#_Toc500943987)

[1.4 Document References 4](#_Toc500943988)

[2*.* Diagram 5](#_Toc500943989)

[3. Requirements 5](#_Toc500943990)

[3.1 Functional Requirements 5](#_Toc500943991)

[3.2 Non-Functional Requirements 5](#_Toc500943992)

[3.3 Messaging Protocols 6](#_Toc500943993)

[3.3.1 Inbound to the BayCare Cloverleaf from Cerner 6](#_Toc500943994)

[3.3.2 Outbound to the BayCare Cloverleaf 6](#_Toc500943995)

[3.3.3 Inbound to the Vendor 6](#_Toc500943996)

[3.3.4 Outbound to Orchestrate from BayCare Cloverleaf 6](#_Toc500943997)

[4. HL7 Messaging 6](#_Toc500943998)

[4.1 Messaging Format 6](#_Toc500943999)

[4.1.1 Segments 6](#_Toc500944000)

[4.1*.*2 Messaging Event Types 7](#_Toc500944001)

[4.1*.*3 Cloverleaf Configuration Files 7](#_Toc500944002)

[4.1.4 Cloverleaf Site Location 7](#_Toc500944003)

[4.2 Data Transformation Requirements RIS Orders 8](#_Toc500944004)

[4.3 Sample Message 9](#_Toc500944005)

[5. Alerts 9](#_Toc500944006)

[Appendix A: Risks and Concerns 10](#_Toc500944007)

[Appendix B: Issues List 10](#_Toc500944008)

# **Document Control**

## Resources

|  |  |  |
| --- | --- | --- |
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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 12/7/2017 | Art Schwartz | Originally Created |
| V1.1 | 12/13/2017 | Art Schwartz/Lois Whitley | Updated with sample messages |
| V1.2 | 3/26/18 | Art Schwartz | Updated for VP6 upgrade |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the Orders interface requirements for the ViewPoint application from GE Centricity IDX (RIS).

## 1.2 Project Scope

Integration for this application includes, Orders Interface (ORM) from the RIS to ViewPoint

## 1.3 Terminology Standards

### 1.3.1 Acronyms

**ORM –** General order message used to transmit information about an order; request for service sent between applications, or in some cases within a single application.

**ORM-O01** - only type of order message; trigger events involve changes to an order such as new orders, cancellations, information updates, discontinuation, etc.

**ORR-O02** –Order response message; trigger event

### 1.3.2 Glossary

**GE Healthcare** is the vendor name.

**ViewPoint** is the application.

## 1.4 Document References

# 2*.* 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** |
| NPR2018.1.0  NPR2018.2 | Interface changes | Several changes are made to translate with upgrade to ViewPoint 6. 1 copy ORC3 to ORC-2, copy OBR-3, hard code RIS to OBR4.4 copy OBR4.1 instead of concatenating to OBR4.0.  There is a filter that controls which facilities are sent To Viewpoint .Currently only BCSJWH and BCWHW are sent |
|  |  |  |

## 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. Please see the reference document located on the Integration SharePoint server: <insert link to document here>

### 3.3.1 Inbound to the BayCare Cloverleaf from Cerner

* TCP IP MLLP Encapsulated

### 3.3.2 Outbound to the BayCare Cloverleaf

* Click here to enter text.

### 3.3.3 Inbound to the Vendor

* Click here to enter text.

### 3.3.4 Outbound to Orchestrate from BayCare Cloverleaf

* TCP IP MLLP Encapsulated

# 4. HL7 Messaging

## 4.1 Messaging Format

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

PID

PV1

ORC

OBR

*Message Construction Notes:*

*[Square Brackets] – Optional*

*{Curly Brackets} – Repeatable*

*MSH – Message Header*

*PID – Patient ID Segment*

*ORC – Common Order Segment*

*OBR – Observation Request Segment*

*OBX – Observation Result*

### 4.1*.*2 Messaging Event Types

Below are the messages types necessary for this integration

|  |  |
| --- | --- |
| **Event Type** | **Description** |
| ORM^O01 | Order message |
| OOR^O02 | Order response message |
|  |  |
|  |  |

### 4.1*.*3 Cloverleaf Configuration Files

For each HL7 interface specified in Section 2 of this document, identify the Cloverleaf Configuration Files: Variants, TCL Scripts, Xlates, Filters, etc.

**RIS Orders:**

Variants HL7 2.3 sms ORM\_O01

TCL Scripts: None

Xlates- idxrad\_view\_orm

RIS Order Filters:

{{ADVFLTR {

{{PATH {MSH:5}} {VALUE {{BCSJWH BCWHW}}} {MATCHDISP CONTINUE} {NOMATCHDISP KILL}}

}

}

{DEBUG 0}

### 4.1.4 Cloverleaf Site Location

**imaging\_12 site**

## 4.2 Data Transformation Requirements RIS Orders

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Notes** |
| --- | --- | --- | --- |
| Message Header | MSH |  | Pathcopy MSH |
| Receiving Application | MSH.5 |  | =GE |
| Receiving Facility | MSH.6 |  | =ViewPoint |
| Date/Time of Message | MSH.7 |  | YYYYMMDDHHMM |
| Message Type | MSH.9 |  | Components: <message type>^<trigger event>  i.e. ORM^O01 |
| Accept Acknowledge Type | MSH.15 |  | =AL |
| Application Acknowledge Type | MSH.16 |  | =NE |
| Patient Identification Segment | PID |  | Path copy PID |
| Patient Internal ID | PID.2 |  | Copy to PID.2, PID3.0 |
| Patient Identifier List | PID.3 |  | Null out PID.3 |
| Patient Identifier List | PID.3.3 |  | =BCHS |
| Patient Name | PID.5 |  | Components: <family name>^<given name>^  Displayed in Orchestrate as Patient First name and Patient Last Name |
| Gender | PID.8 |  | If U, hard code F |
| Patient Social Security number | PID.19 |  | Copy from PID.3.0 and MSH.6 not SS # |
| Patient Visit | PV1 |  | Pathcopy PV1 |
| Location | PV1-3.3 |  | Copy facility from MSH-5 |
| Common Order Segment | ORC |  | Pathcopy ORC |
| Order Control | ORC.1 |  | Order Control (Send only messages with an order control of CA or NA) |
|  | ORC-3 |  | ORC-2 |
| Order Control Reason | ORC.16 |  | Copy from ORC-13 (enterers location) |
| Observation Request Segment | OBR |  | Pathcopy OBR |
| Placer Order Number | OBR.2.0 |  | Copy from OBR-3 |
| Filler Order Number | OBR.3 |  | Copy |
| Universal Service ID | OBR.4.0 |  | Copy OBR.4.0 and OBR.4.1 into OBR.4.0 |
| Universal service identifer | OBR.4.1 |  | Copy |
|  | OBR-4.4 |  | Hard code RIS |
|  | OBR-31 |  | Null out |
| Ordering Provider | OBR.16 |  | copy from OBR-12 danger code |
|  |  |  |  |
|  |  |  |  |

## 4.3 Sample Message

**ORM from RIS**

MSH|^~\&|||BCSJWH|BCSJWH|20180326100741||ORM^O01|1236026|P|2.4|||AL|NEPID||810017308|7000017254||VIEWPOINT^SJHW^^^^||198801230000|F||||||||||6000037256PV1||O|ULTWH^ULTRASOUND||||MS006716^Beattie^Martin^Chandler^^^|MS006716^Beattie^Martin^Chandler^^^|MS006716^Beattie^Martin^Chandler^^^||||||||||6000037256|||||||||||||||||||||||||20180326110000ORC|SC|13379889067|29001993||||||20180326100741|||MS006716^Beattie^Martin^Chandler^^^|||||BCSJWHOBR||13379889067|29001993|UAMNIOPN^US AMNIOCENTESIS PERINATOLOGY|N|20180326110000|20180326110000||||||TEST|||MS006716^Beattie^Martin^Chandler^^^|(813) 757-8421|||||20180326110000|||S||^^^20180326110000^^||||Caller's Name: - test

Script Delivery - PATIENT

Does patient have any special needs? - N

Order Priority -

**ORM To ViewPoint**

MSH|^~\&|||GE|ViewPoint|201803261007||ORM^O01|1236026|P|2.4|||AL|NE

PID||810017308|810017308^^^BCHS||VIEWPOINT^SJHW||19880123|F||||||||||6000037256|7000017254

PV1||O|ULTWH^ULTRASOUND^BCSJWH||||MS006716^Beattie^Martin^Chandler|MS006716^Beattie^Martin^Chandler|MS006716^Beattie^Martin^Chandler||||||||||6000037256|||||||||||||||||||||||||20180326110000

ORC|SC|29001993|29001993||||||20180326100741|||MS006716^Beattie^Martin^Chandler||||TEST|BCSJWH

OBR||29001993|29001993|UAMNIOPN^US AMNIOCENTESIS PERINATOLOGY^^RIS|N|20180326110000|20180326110000||||||TEST|||MS006716^Beattie^Martin^Chandler|(813) 757-8421|||||20180326110000|||S||^^^20180326110000||||Caller's Name: - test

Script Delivery - PATIENT

Does patient have any special needs? - N

Order Priority -

# 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** |
|  |  |  |  |
| Imaging\_12 | 24/7 | IS Ancillary Applications Team | Alert for outbound queue depth > 10 |

# 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 |  |  | |  | |  |  |  |

* End of document