**ORM\_Answer Excellence\_Cerner Reqs**

**1.0**

**Prepared By: Rich Allison**

**Date: 5/31/2018**

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# **Document Control**

## Resources: (include Project Team Members, Liaisons, Vendor Contacts, etc.)

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 5/31/2018 | Rich Allison | Originally Created |
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# 1. Introduction

## 1.1 Purpose

This document outlines the contents and logic of the Answer Excellence Physician Consult Order updates to Cerner translation interface.

## 1.2 Project Scope

Develop an interface for Answer Excellence ORM message updates to Cerner.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

MLLP – Minimum Lower Layer Protocol for messaging framing a HL7 message.

### 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

# 2. Diagram

Provide a solution diagram that depicts the integration of components specified in this IDBB. This diagram must include the data flow for the interfaces (source and target).



Physician Consult ORM – status update

Physician Consult ORM – status update

Consult order shows in progress

End User places consult order

Answer Excellence notifies Physician to do a consult

Cloverleaf Engine

Physician Consult Order Message

Physician Consult Order Message

Cerner

# 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.2018.1.0 | Click here to enter text. | Answer Excellence ORM interface to Cerner for MPH, MCS, MDU, BAH, NBY, SAH, SJN, and SJS |
| FR.2019.2.0 |  | ComServer: ORM\_CONSULT\_IN   * No mod object script. * This comserver uses the Contributor System/Source: CONSULT / Invision. |

## 3.2 Non-Functional Requirements

Provide concise detail for the below non-functional requirements. This would include external table ownership, hours of support, etc. 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. This includes: TCP/IP, FTP, Web Services, etc.

### 3.3.1 Inbound to the BayCare Cloverleaf

|  |  |
| --- | --- |
| FTP |  |
| MLLP Socket Connection (TCP/IP) |  |
| Local File Drop by Midrange Team |  |
| Other | Click here to enter text. |

### 3.3.2 Outbound to the BayCare Cloverleaf

|  |  |
| --- | --- |
| FTP |  |
| MLLP Socket Connection (TCP/IP) |  |
| Local File Drop by Midrange Team |  |
| Other | Click here to enter text. |

### 3.3.3 Inbound to the Vendor

|  |  |
| --- | --- |
| FTP |  |
| MLLP Socket Connection (TCP/IP) |  |
| Local File Drop by Midrange Team |  |
| Other | Click here to enter text. |

### 3.3.4 Outbound to the Vendor

|  |  |
| --- | --- |
| FTP |  |
| MLLP Socket Connection (TCP/IP) |  |
| Local File Drop by Midrange Team |  |
| Other | Click here to enter text. |

# 4. HL7 Messaging

## 4.1 Messaging Format

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

PID

ORC

OBR

*Message Construction Notes:*

*[Square Brackets] – Optional*

*{Curly Brackets} – Repeatable*

*MSH – Message Header*

*EVN – Event segment*

*PID – Patient ID segment*

*PV1 – Patient Visit segment*

*ORC – Common Order segment*

*IN1 – Insurance segment*

*[{ – Start of optional, repeatable group*

*}] – End of optional, repeatable group*

### 4.1*.*2 Messaging Event Types

Below are the messages types necessary for this integration

|  |  |
| --- | --- |
| **Event Type** | **Description** |
| ORM\_O01 | Order 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 and Tables, etc.

Variants:

HL7 2.3/cerner\_emr ORM\_O01

TCL Scripts:

filterDisDate – Filters messages with invalid discharge dates

Xlates:

answer\_cerner\_orm\_soar.xlt

Tables:

None

### 4.1.4 Cloverleaf Site Location

cerner\_orders\_6\_p

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Notes** |
| --- | --- | --- | --- |
| MSH Segment |  | Y | PATHCOPY the MSH segment |
| Sending Application | MSH.3 |  | COPY “CONSULT” to MSH.3 |
| Sending Facility | MSH.4 |  | COPY “BAYCARE” to MSH.4 |
| Receiving Application | MSH.5 |  | COPY “HNAM” to MSH.5 |
| Receiving Facility | MSH.6 |  | COPY to @fac |
| PID Segment |  | Y |  |
| Set ID | PID.1 |  | COPY “1” to PID.1 |
| Patient ID – Assigning Authority | PID.3.0 |  | COPY PID.3.0 to PID.3.0 |
| Patient ID – ID Type Code | PID.3.4 |  | COPY “BCMRN” to PID.3.4 |
| Patient Name – Last | PID.5.0 |  | COPY PID.5.0 to PID.5.0 |
| Patient Name – First | PID.5.1 |  | COPY PID.5.1 to PID.5.1 |
| Patient Name – Middle | PID.5.2 |  | COPY PID.5.2 to PID.5.2 |
| Patient Name - Suffix | PID.5.3 |  | COPY PID.5.3 to PID.5.3 |
| Date/Time of Birth | PID.7 |  | COPY PID.7 to PID.7 |
| Sex | PID.8 |  | COPY PID.8 to PID.8 |
| Patient Account Number – ID | PID.18.0 |  | COPY PID.18.0 to PID.18.0 |
| Patient Account Number – ID type code | PID.18.4 |  | COPY “BCFN” to PID.18.4 |
| SSN Number – Patient | PID.19 |  | IF no SSN send NULL  ELSE COPY PID.19 to PID.19  Pad with leading “0’s |
| ORC Segment |  | Y |  |
| Order Control | ORC.1 |  | COPY ORC.1 to ORC.1 |
| Placer Order Number | ORC.2 |  | COPY ORC.2 to ORC.2 |
| Order Status | ORC.5 |  | COPY “IP” to ORC.5 |
| Data/Time of Transaction | ORC.9 |  | COPY ORC.9 to ORC.9 |
| OBR Segment |  | Y |  |
| Set ID – OBR | OBR.1 |  | COPY OBR.1 to OBR.1 |
| Placer Order Number | OBR.2 |  | COPY OBR.2 to OBR.2 |
| Universal Service Identifier | OBR.4 |  | COPY OBR.4 to OBR.4 |
|  |  |  |  |

## 4.3 Sample Message

Inbound from AE:

MSH|^~\&|CONSULTMANAGER|ANSWEREXCELLENCE|HNAM|MPH|201806142357||ORM^O01|Q4557521448T60131680|P|2.3

PID|||2104899999||SMITH^SUE A||19590703|F||||||||||1106799999

ORC|SC|14854499999|||CM

OBR||14854499999||Consult to Physician^Consult to Physician

Outbound to Cerner:

MSH|^~\&|CONSULT|BAYCARE|HNAM|MPH|201806142357||ORM^O01|Q4557521448T60131680|P|2.3

PID|1||2104899999^^^^BCMRN||SMITH^SUE A||19590703|F||||||||||1106799999^^^^BCFN

ORC|SC|14854499999|||IP

OBR||14854499999||Consult to Physician^Consult to Physician

# 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** |
|  |  |  |  |
| cerner\_orders\_6\_p | 24/7 | Inbound:  SUPPORT:  Primary: Cerner PowerChart on call  Secondary: Answer Excellence vendor  Phone: 727-441-9122  Outbound:  SUPPORT:  Primary: Cerner Interface on call | INTERFACE DESCRIPTION:  Dedicated orders feed from Answer Excellence to Cerner. |

# 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