**ORU\_TeleTracking\_Cerner Reqs**

**1.1**

**Prepared By: Rich Allison & Sarah Thies**

**Date: 6/6/2018**

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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 | 6/1/2018 | Rich Allison | Originally Created |
| V1.1 | 6/6/2018 | Sarah Thies | Added Cerner Results Info |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

This document outlines the contents and logic of the TeleTracking Bed Request Results (from the Cerner Orders) to Cerner Results translation interface.

## 1.2 Project Scope

Develop an interface for TeleTracking Bed Request Result messages 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).



***Inbound* Cerner (port 12003)**



# 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.20XX.1.0 | Click here to enter text. | TeleTracking Bed Request Results (from the Cerner Orders) to Cerner Results translation interface. |
| FR.2018.1.1 | Cerner BayCare MRN Tag | PID-3.5 requires value BCMRN |
| FR.2018.1.2 | Cerner BayCare FIN Tag | PID-18.5 requires value BCFN |

## 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

OBX

*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** |
| ORU\_R01 | Observation Result/Unsolicited |

### 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 ORU\_R01

TCL Scripts:

None

Xlates:

teletrac\_cerner\_oru\_rev3.xlt

Tables:

None

### 4.1.4 Cloverleaf Site Location

teletrck\_24\_p

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Notes** |
| --- | --- | --- | --- |
| MSH Segment |  | Y | PATHCOPY the MSH segment |
| Encoding Characters | MSH.2 |  | COPY “=^~\&” to MSH.2 |
| Sending Application | MSH.3 |  | COPY “TELETRAK” to MSH.3 |
| Receiving Facility | MSH.6 |  | COPY MSH.6 to @fac |
| Sending Facility | MSH.4 |  | COPY @fac to MSH.4 |
| Receiving Application | MSH.5 |  | COPY “HNAM” to MSH.5 |
| Receiving Facility | MSH.6 |  | COPY MSH.5 to MSH.6 |
| Version ID | MSH.12 |  | COPY “2.3” to MSH.12 |
| PID Segment |  | Y |  |
| Patient ID – Internal – ID  Patient ID – ID Type Code | PID.3.0  PID.3.4 |  | COPY PID.3.0 to PID.3.0  COPY “BCMRN” to PID.3.4 |
| Patient Name | PID.5 |  | PATHCOPY PID.5 |
| 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  Patient Account Number – ID Type Code | PID.18.0  PID.18.4 |  | COPY PID.18.0 to PID.18.0  COPY “BCFN” to PID.18.4 |
| ORC Segment |  | Y |  |
| Order Control | ORC.1 |  | COPY “RE” to ORC.1 |
| Placer Order Number | ORC.2 |  | COPY ORC.2 to ORC.2 |
| Date/Time of Transaction | ORC.9 |  | COPY ORC.9 to ORC.9 |
| Order Effective Date/Time | ORC.15 |  | COPY ORC.15 to ORC.15 |
| OBR Segment |  | Y |  |
| Set ID – OBR | OBR.1 |  | COPY “1” in OBR.1 |
| Placer Order Number | OBR.2 |  | COPY OBR.2 to OBR.2 |
| Filler Order Number | OBR.3 |  | COPY OBR.2 to OBR.3 |
| Observation Date/Time | OBR.7 |  | COPY OBR.7 to @obs\_datetime  COPY @obs\_datetime to OBR.7 |
| Results Rpt/Status Chng – Date/Time | OBR.22 |  | COPY @obs\_datetime to OBR.22 |
| OBX Segment |  | Y | ITERATE for Multiple OBX Segments |
| Set ID – OBX | OBX.1 |  | COPY “1” to OBX.1 |
| Value Type | OBX.2 |  | COPY “ST” to OBX.2 |
| Observation Identifier | OBX.3 |  | COPY OBX.3 to OBX.3 |
| Universal Service Identifier | OBR.4 |  | COPY OBX.3 to OBR.4 |
| Observation Value | OBX.5 |  | COPY OBX.5 to OBX.5 |
| Observ Result Status | OBX.11 |  | COPY “F” to OBX.11 |
| Result Status | OBR.25 |  | COPY OBX.11 to OBR.25 |
| Date/Time of the Observation | OBX.14 |  | COPY @obs\_datetime to OBX.14 |

## 4.3 Sample Message

*INBOUND* to Cloverleaf from Teletracking

MSH|^~\&|XTPAT|||SJS|20180607102630||ORU^R01|8835|P|2.3||||||||||

PID|||7000057748||Teletracking^Autodcdisp||19750830010000|M|||45 Testing^^New Port Richey^FL^34654||(456)456-4564|||||6000087903||||||||||||||||||||||

PD1||

PV1|||A3N^3702^A^SJS|X|||SJS66666^Unassigned^ER Doctor|||||||EO|||SJS66666^Unassigned^ER Doctor|E|||||||||||||||||||||SJS|R||||20180607100500|||||||||

PV2|||Abdominal Pain|||||20180607100500|

ORC|OK|13483068205|||||||20180607102630||||||20180607102630|NW|||||||||||||||

OBR||13483068205||Clean|||20180607102632|||||||||||||||||||||||||||||||||||||||||||

OBX|1|ST|BEDREQUEST||A3N-3702-A Clean||||||F|||||||||

*OUTBOUND* from Cloverleaf to Cerner

MSH|^~\&|TELETRAK|SJS|HNAM|HNAM|20180607102630||ORU^R01|8835|P|2.3

PID|||7000057748^^^^BCMRN||Teletracking^Autodcdisp||19750830|M||||||||||6000087903^^^^BCFN

ORC|RE|13483068205|||||||20180607102630||||||20180607102630

OBR|1|13483068205|13483068205|BEDREQUEST|||20180607102632|||||||||||||||20180607102632|||F

OBX|1|ST|BEDREQUEST||A3N-3702-A Clean||||||F|||20180607102632

# 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** |
|  |  |  |  |
| teletrck\_24 | 24/7 | Primary Support:  On call group is IS Ancillary Applications Team  Secondary line of support:  Tele-Tracking Technical Support:800-927-0294  SJH support #: 0276  SJW support #: 1050  SAH support #: 1172  SJN support #: 1083  MPH support #: 0845  MCS support#: 0844 | Primary Support:  On call group is IS - Cerner Interfaces  INTERFACE DESCRIPTION:  ORU (Results) from Teletracking (Bed Tracking system) 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