**ORM\_GE Centricity IDX\_TeleTracking Orchestrate**

**Version 1.3**

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

**Date: 7/30/2019**

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# **Document Control**

## Resources

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 3/3/2017 | Lois Whitley | Originally Created |
| V1.1 | 3/6/2017 | Sarah Thies | Confirmed Cerner updates previously added |
| V1.2 | 3/6/2017 | Rich Allison | Updated Cloverleaf information |
| V1.3 | 7/30/19 | Charles Markwardt | Updated for Cerner model |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the Orders interface requirements for the Orchestrate Teletracking application from GE Centricity IDX.

## 1.2 Project Scope

Integration for this application includes a Scheduling interface (SIU) from Soarian to Orchestrate, Orders Interface (ORM) from Cerner and an Orders interface from the RIS to Orchestrate. The project includes the following modalities: Nuclear Medicine (NM), Interventional Radiology (IR), Ultrasound (US), Computerized Tomography (CT), Special Procedures (SP), Magnetic Resonance Imaging (MR) and Children’s Day Hospital (CDH). There are two sources of patient information: Soarian Scheduling for outpatients and Cerner Orders for Inpatients and Emergency Room Visits.

## 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

**TeleTracking** is the vendor name.

**Orchestrate** is the application.

## 1.4 Document References

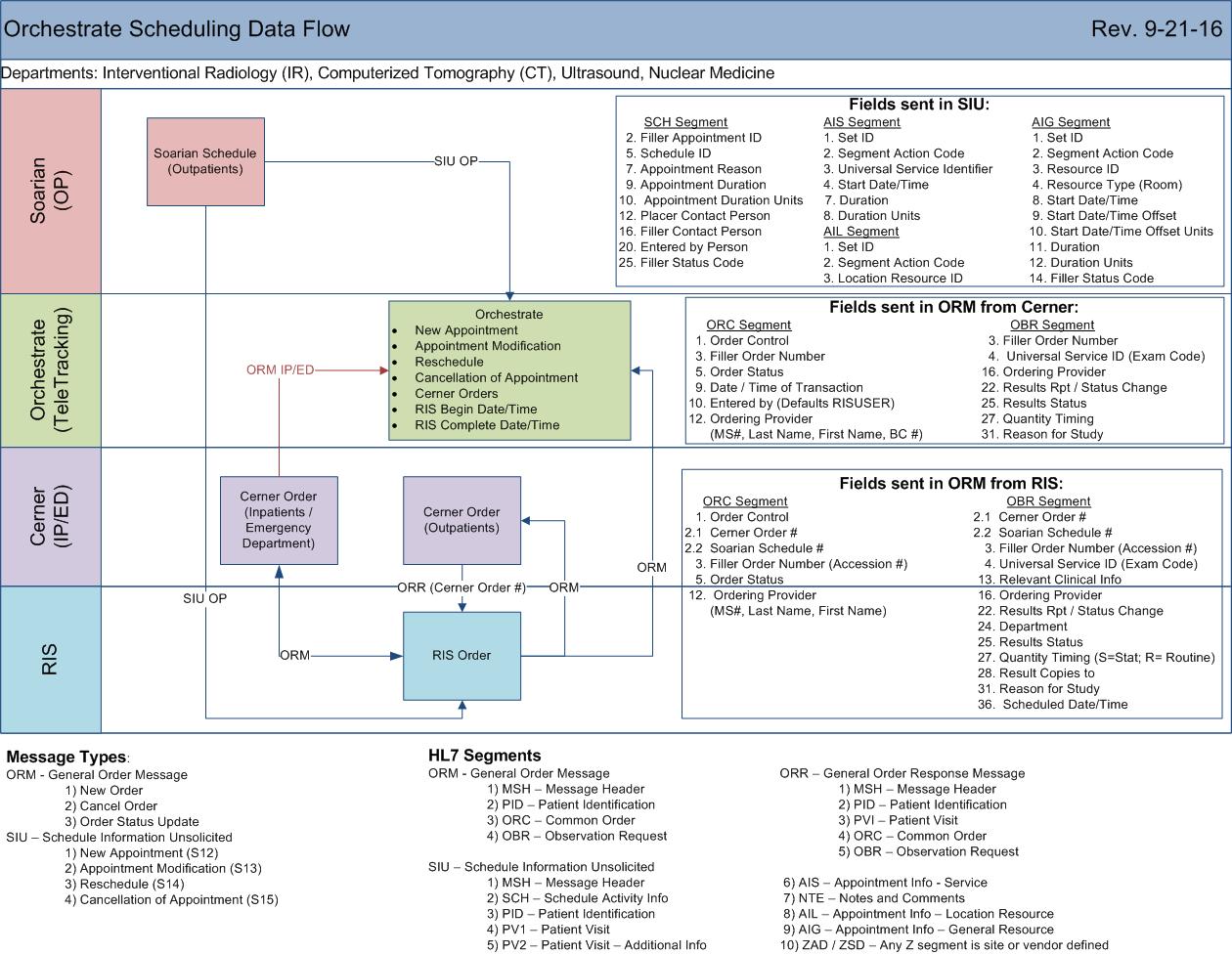
Orchestrate HL7 Interface Specifications

**Cerner Specs:**

Unit 09o - Order Message Processing Outbound

# *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).



# 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.2016.1.0 | Department Filter | This Cerner Department filter is now filtered in Cloverleaf  NM - Nuclear Medicine  IR – Interventional Radiology  US – Ultrasound  CT – Computerized Tomography  MR – Magnetic Resonance Imaging  SP – Special Procedures  CDH – Children’s Day Hospital |

|  |  |  |
| --- | --- | --- |
| **Number** | **Requirement Name** | **Requirement Description** |
| FR.2019.5.14 | Order selection logic | This script will suppress Radiology,MRiradiology message if the action type is one of the following action types ("STATUSCHANGE","MODIFY","COMPLETE") and the contributor system = “IDX” |
|  | Contributor system Invision | Invision is Cerner’s main contributor system. This system is used across multiple interface throught the orginzation. So when alais are added to the contributor source it will impact more than just this interface.  **Contributor Source:** Invision  **Organization:** Baycare Heatlh Systems  **Message Format:** HL7 V2.x  **Outbound Field Processing**  MSH.3 Sending Application = HNAM  MSH.4 Sending Facility = CERNER  MSH.5 Receiving Application = INVISION  MSH.6 Receiving Facility = BAYCARE  **Outbound aliasing**  OBX.3 Observation ID comes from the contributor source LOINC |

## 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

ORC

OBR

OBX

*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: Raw Feed**

Variants: None

TCL Scripts: None

Xlates: None

RIS Order Filters:

{ADVFLTR {

{{PATH {MSH:18}} {VALUE {{BEGEX EXEDTC EXEDTS EXRESC COMPEX EXCANC}}} {MATCHDISP CONTINUE} {NOMATCHDISP KILL}} – Allowable procedure status’s

{{PATH {OBR:24.2}} {VALUE {{NM IR US CT MR SP CDH}}} {MATCHDISP CONTINUE} {NOMATCHDISP KILL}} – Select messages that contain one of the listed modalities

{{PATH {MSH:3}} {VALUE {{OSFBRM OSFMPM OSFSAH OSFSJB OSFWHH}}} {MATCHDISP KILL} {NOMATCHDISP CONTINUE}}

}

}

{DEBUG 1}

**Cerner Cancel Order and New Order**:

**NOTE**: This is the same Xlate used for Cerner orders to Orchestrate. Special Cerner logic below.

Variants: HL7 2.3/cerner\_emr ORM\_O01

TCL Scripts: None

Xlates: cerner\_teletrac\_orch\_orm.xlt

Filters for Cancel Order and New Order from Cerner:

{ADVFLTR {

{{PATH {OBR:24}} {VALUE {{NM IR US CT MR SP CDH}}} {MATCHDISP CONTINUE} {NOMATCHDISP KILL}}}} – Select messages that contain one of the listed modalities

{{PATH {MSH:4}} {VALUE {{BLM WBH SIP ISU CRC BHO}}} {MATCHDISP KILL} {NOMATCHDISP CONTINUE}} – Block Behavior Health

{{PATH {ORC:1 ORC:18.0}} {VALUE {{CA NA} {REBOUND}}} {LOGICAL {&&}} {MATCHDISP CONTINUE} {NOMATCHDISP KILL}} – Send only messages with an order control of CA or NA

{{PATH {PV1:2 PV1:3.1 PV1:3.2 ORC:18.0}} {VALUE {{O} {{}} {{}} {REBOUND}}} {LOGICAL {&&}} {MATCHDISP KILL} {NOMATCHDISP CONTINUE}} – Kill outpatient messages

}

}

{DEBUG 0}

### 4.1.4 Cloverleaf Site Location

**RIS Orders to teletrck\_24 site**

**Raw feed from the imaging\_12 site**

## 4.2.1 FSI Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | | **Required Y/N** | | **Data Type** | | **Length** | | **Notes** | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Message Segment Header | | MSH | | Y | | Varies | | Varies | | Pathcopy the entire segment. | |
| Sending Application | | MSH.3 | | Y | |  | |  | | HNAM | |
| Sending Facility | | MSH.4 | | Y | | HD | | 227 | | CERNER | |
| Receiving Application | | MSH.5 | |  | |  | |  | | INVISION | |
| Receiving Facility | | MSH.6 | | Y | |  | |  | | BAYCARE | |

## 4.2.2 Cloverleaf Data Transformation Requirements RIS Orders

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| Message Header | MSH |  |  |  | MSH |
| Message Segment Field Separator | MSH.1 |  |  |  |  |
| Encoding Characters | MSH.2 |  |  |  |  |
| Sending Application | MSH.3 |  |  |  | Centricity RIS-IC |
| Sending Facility | MSH.4 |  |  |  |  |
| Date/Time of Message | MSH.7 |  |  |  | YYYYMMDDHHMM |
| Message Type | MSH.9 |  |  |  | Components: <message type>^<trigger event>  i.e. ORM^O01 |
| Character Set | MSH.18 |  |  |  | BEGEX = Begin Exam  EXEDTC = Exam Edit After Complete  EXEDTS = Exam Edit Before Begin  EXRESC = Reschedule Exam  COMPEX = Complete Exam  EXCANC = Cancel Exam |
| Patient Identification Segment | PID |  |  |  | PID |
| Patient Internal ID | PID.2 |  |  |  | Medical Record Number |
| Patient Identifier List | PID.3 |  |  |  | CPI |
| Patient Name | PID.5 |  |  |  | Components: <family name>^<given name>^  Displayed in Orchestrate as Patient First name and Patient Last Name |
| Birth Date | PID.7 |  |  |  | YYYYMMDD |
| Gender | PID.8 |  |  |  | Patient’s Sex |
| Patient Address | PID.11 |  |  |  | Patient’s Address |
| Phone Number - Home | PID.13 |  |  |  | Patient’s Phone Number |
| Patient Account Number | PID.18 |  |  |  | Used in Orchestrate to uniquely identify a patient internally |
| Common Order Segment | ORC |  |  |  |  |
| Order Control | ORC.1 |  |  |  | Order Control (Send only messages with an order control of CA or NA) |
| Placer Order Number | ORC.2.0 |  |  |  | Cerner Order # |
|  | ORC.2.1 |  |  |  | Soarian Schedule # |
| Filler Order Number | ORC.3 |  |  |  | Accession # |
| Order Status | ORC.5 |  |  |  | (ie. “20”, “C”) |
| Ordering Provider | ORC.12 |  |  |  | BayCare Dr Number and Name |
| Observation Request Segment | OBR |  |  |  |  |
| Placer Order Number | OBR.2.0 |  |  |  | Cerner Order # |
|  | OBR.2.1 |  |  |  | Soarian Schedule # |
| Filler Order Number | OBR.3 |  |  |  | Accession # |
| Universal Service ID | OBR.4.0 |  |  |  | Exam Code - CAB |
| Universal Service ID Text | OBR.4.1 |  |  |  | CT ABDOMEN WITHOUT CONTRAST |
| Relevant Clinical Info | OBR.13 |  |  |  | SHORTNESS OF BREATH |
| Ordering Provider | OBR.16 |  |  |  | BayCare Dr Number and Name |
| Results Report Status Change Date / Time | OBR.22 |  |  |  | 20170209110000 |
| Diagnostic Service Section ID | OBR.24 |  |  |  | Department filter:  NM - Nuclear Medicine  IR – Interventional Radiology  US – Ultrasound  CT – Computerized Tomography  MR – Magnetic Resonance Imaging  SP – Special Procedures  CDH – Children’s Day Hospital |
| Result Status | OBR.25 |  |  |  | S=Stat  R=Routine |
| Quantity timing | OBR.27 |  |  |  |  |
| Result Copies to | OBR.28 |  |  |  |  |
| Reason for Study | OBR.31 |  |  |  | Procedure Description |
| Scheduled Date/Time | OBR.36 |  |  |  | 20170206133000 |

**Special logic in cerner\_teletrac\_orch\_orm.xlt** **for RIS Cancel Order and New Order from Cerner:**

## 4.3 Data Transformation Requirements – Cancel Order and New Order from Cerner

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| Message Header | MSH |  |  |  |  |
| Message Type | MSH.9 |  |  |  | IF MSH.9.0 eq “ORR”  Copy “ORM” to MSH.9.0  Copy “O01” to MSH.9.1 |
| Common Order Segment | ORC |  |  |  |  |
| Order Control | ORC.1 |  |  |  | IF ORC.1 eq “NA” (nbr assigned)  Copy “NW” to ORC.#1 (new order) |
| Order Status | ORC.5 |  |  |  | If ORC.5 eq “IX”  Copy “20” to ORC.5 |

## 4.4 Sample Message

**Messages outbound to Orchestrate:**

**Begin Exam:**

MSH|^~\&|Centricity RIS-IC|BCSJH|||20170208121511||ORM^O01|360802253|T|2.3|||||||BEGEX

PID||810009400|7000011433^^^^^BCSJH||FEBRUARYTEST^SEVEN^^^^||19630419|F|||3707 22ND AVE SO^^Saint Petersburg^FL^33701^USA^USA||(727) 555-1252|||||6000026215

ORC|SC|10091870897~3518395|40031585||C|||||||MS055144^Cimino^Patrick^Thomas^^^

OBR||10091870897~3518395|40031585|CAB^CT ABDOMEN WITHOUT CONTRAST|||||||||ABDOMINAL PAIN, NAUSEA|||MS055144^Cimino^Patrick^Thomas^^^||||||20170208114500||CT^Computed Tomography^CT^CT SCAN|I||^^^^^R|~~~~|||Caller's Name: - PATIENT;Script Delivery - PATIENT;Does patient have any special needs? - N;Order Priority -|||||20170208093000

**Complete Exam:**

MSH|^~\&|Centricity RIS-IC|BCSJH|||20170208133532||ORM^O01|360802326|T|2.3|||||||COMPEX

PID||810009400|7000011433^^^^^BCSJH||FEBRUARYTEST^SEVEN^^^^||19630419|F|||3707 22ND AVE SO^^Saint Petersburg^FL^33701^USA^USA||(727) 555-1252|||||6000026215

ORC|SC|10091870897~3518395|40031585||C|||||||MS055144^Cimino^Patrick^Thomas^^^

OBR||10091870897~3518395|40031585|CAB^CT ABDOMEN WITHOUT CONTRAST|||||||||ABDOMINAL PAIN, NAUSEA|||MS055144^Cimino^Patrick^Thomas^^^||||||20170208133500||CT^Computed Tomography^CT^CT SCAN|C||^^^^^R|~~~~|||Caller's Name: - PATIENT;Script Delivery - PATIENT;Does patient have any special needs? - N;Order Priority -|||||20170208093000

**Cancel Order RIS to Cerner, Rebound from Cerner:**

MSH|^~\&|HNAM|CERNER|SJH|BAYCARE|20170202113322||ORM^O01|Q2876360825T3599611618||2.3||||||8859/1

PID|1|7000011354^^^BayCare MRN^MRN^SOARIAN|7000011354^^^BayCare MRN^MRN^SOARIAN~810009289^^^BayCare CMRN^Community Medical Record Number^SOARIAN||CUNNINGHAM^RICHIE^^^^^Current||19640330|M||W|123 4TH ST^^Tampa^FL^33615^^Home||(727)467-4678^PRN||ENG|S|Catholic|6000026106^^^BayCare FIN^FIN NBR^SOARIAN||||UNK|||0

PV1|1|I|3E^B304^A^SJH^^Bed(s)^SJH|R|||MS006716^Beattie^Martin^N^^^^^BayCare Dr Number|||MED||||RP||N|MS006716^Beattie^Martin^N^^^^^BayCare Dr Number|I||8|||||||||||||||||||SJH||Active|||20170202102900

PV2||Acute|^TEST|||||||0||||||||||||CONFID|^^589748

ORC|CA|8778281867^HNAM\_ORDERID|40031493^Imagecast Order Number||85||||20170202113321|RISUSER^CLDLMRL^VZKAMLLZQ^^^^^^BayCare Dr Number^Personnel^^^ORGANIZATION DOCTOR^CD:114979916||MS010820^Brannan^Anthony^N^^^^^BayCare Dr Number|||20170202113321|||REBOUND^ESI Default|RISUSER^CLDLMRL^VZKAMLLZQ^^^^^^BayCare Dr Number^Personnel^^^ORGANIZATION DOCTOR^CD:114979916

OBR|1|8778281867^HNAM\_ORDERID|40031493^Imagecast Order Number|CAB1^CT Abdomen w/ Con||||||||||||MS010820^Brannan^Anthony^N^^^^^BayCare Dr Number||||||20170202113321||CT|||1^^0^20170202113000^^Routine|||ST|^abdominal pain, IV contrast only

OBX|1|ID|Pregnant^Pregnant||N

**Number assigned from Cerner to RIS:**

MSH|^~\&|HNAM|CERNER|SJH|BAYCARE|20170202113324||ORR^O02|Q2876360828T3599611622||2.3||||||8859/1

PID|1|7000011354^^^BayCare MRN^MRN^SOARIAN|7000011354^^^BayCare MRN^MRN^SOARIAN~810009289^^^BayCare CMRN^Community Medical Record Number^SOARIAN||CUNNINGHAM^RICHIE^^^^^Current||19640330|M||W|123 4TH ST^^Tampa^FL^33615^^Home||(727)467-4678^PRN||ENG|S|Catholic|6000026106^^^BayCare FIN^FIN NBR^SOARIAN||||UNK|||0

PV1|1|I|3E^B304^A^SJH^^Bed(s)^SJH|R|||MS006716^Beattie^Martin^N^^^^^BayCare Dr Number|||MED||||RP||N|MS006716^Beattie^Martin^N^^^^^BayCare Dr Number|I||8|||||||||||||||||||SJH||Active|||20170202102900

PV2||Acute|^TEST|||||||0||||||||||||CONFID|^^589748

ORC|NA|8778283517^HNAM\_ORDERID|40031493^Imagecast Order Number||IX||||20170202113000|RISUSER^CLDLMRL^VZKAMLLZQ^^^^^^BayCare Dr Number^Personnel^^^ORGANIZATION DOCTOR^CD:114979916||MS010820^Brannan^Anthony^N^^^^^BayCare Dr Number|||20170202113324|||REBOUND^ESI Default|RISUSER^CLDLMRL^VZKAMLLZQ^^^^^^BayCare Dr Number^Personnel^^^ORGANIZATION DOCTOR^CD:114979916

OBR|1|8778283517^HNAM\_ORDERID|40031493^Imagecast Order Number|CAB^CT Abdomen w/o Con||||||||||||MS010820^Brannan^Anthony^N^^^^^BayCare Dr Number||||||20170202113324||CT|||1^^0^20170202113000|||ST|^abdominal pain, IV contrast only,

**Cancel Order and New Order sent to Orchestrate:**

MSH|^~\&|HNAM|BAYCARE|Orchestrate|SJH|20170202113322||ORM^O01|Q2876360825T35996116|P|2.3||||||8859/1

PID||7000011354|810009289||CUNNINGHAM^RICHIE||19640330|M||W||||||||6000026106

PV1||I|3E^B304^A^SJH^^Bed(s)^SJH|R|||MS006716^Beattie^Martin^N|||MED||||RP|||MS006716^Beattie^Martin^N||||||||||||||||||||||SJH|||||20170202102900

ORC|CA|8778281867|||85||1^^0^20170202113000^^Routine||20170202113321|RISUSER^CLDLMRL^VZKAMLLZQ||MS010820^Brannan^Anthony^N|||20170202113321|||REBOUND|RISUSER^CLDLMRL^VZKAMLLZQ

OBR||||CAB1^CT Abdomen w/ Con||||||||||||||||||20170202113321||CT|||1^^0^20170202113000^^Routine||||abdominal pain, IV contrast only

*(Cancels the order in Orchestrate)*

MSH|^~\&|HNAM|BAYCARE|Orchestrate|SJH|20170202113324||ORM^O01|Q2876360828T35996116|P|2.3||||||8859/1

PID||7000011354|810009289||CUNNINGHAM^RICHIE||19640330|M||W||||||||6000026106

PV1||I|3E^B304^A^SJH^^Bed(s)^SJH|R|||MS006716^Beattie^Martin^N|||MED||||RP|||MS006716^Beattie^Martin^N||||||||||||||||||||||SJH|||||20170202102900

ORC|NW|8778283517|||20||1^^0^20170202113000||20170202113000|RISUSER^CLDLMRL^VZKAMLLZQ||MS010820^Brannan^Anthony^N|||20170202113324|||REBOUND|RISUSER^CLDLMRL^VZKAMLLZQ

OBR||||CAB^CT Abdomen w/o Con||||||||||||||||||20170202113324||CT|||1^^0^20170202113000||||abdominal pain, IV contrast only,

*(New changed order to Orchestrate)*

# 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 | IS Ancillary Applications Team | Alert for outbound queue depth > 100 |

# 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