**RDE/RDS from Cerner (Pharmacy) to CATO**

**1.4**

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# **Document Control**

## Resources

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 7/23/2018 | Lois Whitley | Originally Created |
| V1.1 | 7/30/2018 | Sailaja Parimi | Added several updates to the document with the project go live on 7/31/18. |
| V1.2 | 8/8/18 | Stephen Mattei | Added Cloverleaf updates |
| V1.3 | 6/13/19 | Art Schwartz | Cerner Model update |
| V1.4 | 07/24/19 | Charles Markwardt | Cerner Model update |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the Pharmacy Orders (RDE) and Pharmacy Dispense (RDS) interface requirements for IV Fluids from Cerner PharmNet to the BD CATO (Computer Aided Therapy for Oncology) application.

## 1.2 Project Scope

The BD Pyxis IV Prep (formerly BD CATO) workflow solutions standardize compounding processes such as order review, medication picking and dose preparation to improve medication safety and pharmacy workflow.

Messages sent to BD CATO are processed by the CareFusion Coordination Engine (CCE) which includes a BD CATO adapter that provides data mapping specific to the needs of BD CATO.

Integration for the CATO application includes Orders and Dispense from the Cerner PharmNet (Pharmacy) system.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

ACK – General acknowledgement message

ADT – Admission, Discharge and Transfer Message

BD – Becton, Dickinson and Company

CATO – Computer Aided Therapy for Oncology

CCE – CareFusion Coordination Engine

ORU – Observation result/unsolicited

RDE – Pharmacy encoded order message

RDS – Pharmacy dispense message

### 1.3.2 Glossary

CATO – software

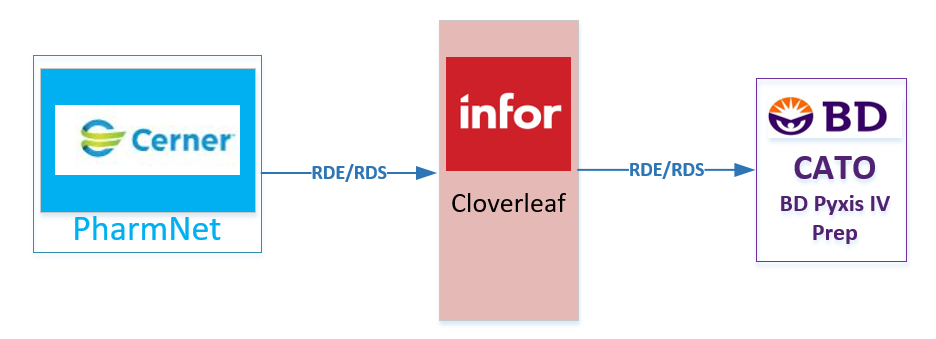
BD – vendor name

## 1.4 Document References

BD CATO HL7 Messages Specification Guide EN.pdf

Cerner – Unit 20RX Retail Pharmacy History Upload

# 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** |
| 2018.1.0 | RDE Filters | ZX1:7.1 = Cato - Only messages that contain the word “Cato” in ZX1:7 are allowed to cross to Cato.  RXE:5.1 = Manual Charge – If a message contains the text “manual charge” in RXE:5.1 then suppress \ kill the message |
| 2018.2.0 | RDS Filters | ZX1:9.1 = Cato – Only messages that contain the word “Cato” in ZX1:9.1 are sent to Cato. |
| 2018.3.0 | One RXR | Cato only needs one RXR segment per message so there is code in place to insure that only one RXR segment is sent per message. |
| 2018.4.0 | RDS - Insure ZXE:4 is Populated with Date | There needs to be a relevant date in ZXE:4 on RDS messages and this was not always the case so the following logic was deployed:  All conditions must be met:  Message Type = RDS  Oder Control Reason Code = Initial Doses  Quantity Timing Condition = PRN  Then: Copy Date and Time of Most Resent Fill to ZXE:4 |
| 2018.5.0 | Only Pass 1 RXC per component | Cerner sends out two RXC segments per component, either additive or base. One of the RXC segments contains the codified CDM value and the other does not and only contains the description. Cato is not able to process the description and create a relationship to the CDM so we had to do it for them. A index is created using the CDM, RXC:2.0 and Component Alternative Text, RXC:2.4. That index is then used to create a relationship between the RXC segments. There are times when a compound has a one to many relationship. In these cased the parent is kept and the children are suppressed. This is done because the CDM is at the parent level so the other components are derived upon receipt in Cato. |
| 2019.6.0 | Block AL1 segment | No longer blocked in Cerner |
|  | tpscernerFacilityHandler | This procedure will transfer the facility code from the PV1-3.4 field to MSH-4 and MSH-6. |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Cerner** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
|  |  |  |
| 2019.07.17 | Cerner interface | Existing interface rde\_tcp\_out is used to send both Pharmacy order (RDE) and Dispense (RDS) messages for IV fluid meds. |
|  | Contributor system | PYXISRX |
|  | Contributor Source | PYXIS |
|  | Outbound field processing | MSH 3.0 = HNAM  MSH 4.0 = HNAM  MSH 5.0 = PYXIS  MSH 6.0 = PYXIS  Send AL1 segments  Send the Pharmacy ID type = Pyxis Interface ID  Send Item Alias  Round duration and infusover to whole numbers  Repeating OBX  Max number of OBX = 2 |
|  | Global Script - ESO\_GET\_ORDER\_SELECTION | Skip if the order doesn’t have any ingredients |
| 2019.09.01 | Mod Object – rde\_rds\_pharm\_out | Skip if there is no RDE group in the message  Skip if the order control reason (ORC 16.4) = CD:89800833  Preforms additional business logic which can be found in the section 4.3 FSI Data Transformation.  Premix diluent messages should not go to Cato. They contain one of the following CDMs - 2344882, 2344885, 2344966, 2344996 or 2344997. A filter is place to kill these messages |

## 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 Inbound from Cerner to Cloverleaf

* Site: pharmacy\_17 Thread: rdeRds\_cer\_in\_cato\_xi6
* FSI Comserver: RDE\_RDS\_PHARMACY\_OUT

### 3.3.2 Outbound to CATO

* Site: pharmacy\_17 Thread: rdeRds\_cato\_out

### 

### 3.3.3 Inbound from Cerner to Cloverleaf

Test

IP Address:

Port Number:

Prod

IP Address:

Port Number:

### 3.3.4 Outbound to CATO

Test

IP Address:

Port Number: Click here to enter text.

Prod

IP Address:

Port Number: Click here to enter text.

# 

# 4. HL7 Messaging

## 4.1 Messaging Format

### 4.1.1 Segments

The segments utilized for this interface are:

**Pharmacy Order (RDE) Message:**

MSH Message Header

PID Patient Identification

PV1 Patient Visit

ORC Common Order

RXO Pharmacy/Treatment Order

[{RXR}] Pharmacy/Treatment Route

[{RXC}] Pharmacy/Treatment Component

RXE Pharmacy/Treatment Encoded Order

[ZX1] Additional RX Order Information

[{OBX}] Observation Result

**Pharmacy Dispense (RDS) Message:**

MSH Message Header

PID Patient Identification

[PV1] Patient Visit

ORC Common Order

RXE Pharmacy/Treatment Encoded Order

[{RXR}] Pharmacy/Treatment Route

[ZXE] *Additional Phamacy/Treatment Encoded*

ZX1 Additional RX Order Information

RXE Pharmacy/Treatment Encoded Order

*Message Construction Notes:*

*[Square Brackets] – Optional*

*{Curly Brackets} – Repeatable*

*[{ – 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 by CATO. Message types highlighted in green is what is supported by Cerner interface.

|  |  |  |
| --- | --- | --- |
| **Message Code** | **Event Type** | **Description** |
| RDE | O01 | Pharmacy order message |
| RDS | O01 | Pharmacy/treatment dispense |

### 4.1*.*3 Cloverleaf Configuration Files

### 4.1.4 Cloverleaf Site Location

Pharmacy\_17

## 

## 4.3 Cerner Data Transformation Requirements for RDE:

| **Field Description** | **HL7 Field Loc.** | **Required Y/N/RE** | **Notes** |
| --- | --- | --- | --- |
| Sending Application | MSH.3 | Y | MSH 3.0 = HNAM |
| Sending Facility | MSH.4 | Y | MSH 4.0 = HNAM |
| Receiving application | MSH.5 | Y | MSH 5.0 = PYXIS |
| Receiving Facility | MSH.6 | Y | MSH 5.0 = PYXIS |
| Date/Time of Message | MSH.7 | Y | YYYYMMDDHHMMSS  Date/Time the ACK message was created |
| Common order | ORC | Y |  |
| Quantity/Timing | ORC.7 | Y |  |
| Quantity | ORC.7.1 | N | If the order\_detail table has the value of oe\_field\_display\_value = “Soft Stop” and oe\_field\_meaning = “STOPTYPE” this field will be blank. |
| Interval | ORC.7.2 | N | If frequency is present this field will be populated |
| End Date/Time | ORC.7.5 | N | If the order\_detail table has the value of oe\_field\_display\_value = “Soft Stop” and oe\_field\_meaning = “STOPTYPE” this field will be blank. |
| Pharmacy Encoded Order Segment | RXE | Y |  |
| Quantity/Timing | RXE.1 |  |  |
| Interval | RXE.1.2 | N | If frequency is present this field will be populated |
| Duration | RXE.1.3 | N | If the order\_detail table has the value of oe\_field\_display\_value = “Soft Stop” and oe\_field\_meaning = “STOPTYPE” this field will be blank. |
| End Date/Time | RXE.1.5 | N | If the order\_detail table has the value of oe\_field\_display\_value = “Soft Stop” and oe\_field\_meaning = “STOPTYPE” this field will be blank. |
| Give Amount - Minimum | RXE.3 | N | Copied from RXC.3 |
| Give Amount – Maximum | RXE.4 |  | Copied from RXC.4 |
| Pharmacy Order Component | RXC |  |  |
| Component Code – Name of Alternate Coding System | RXC.2.6 | N | If the medication identifier has a value on the med\_identifier table in Cerner |
| Custom segment | ZX1 |  |  |
| Dispense category | ZX1.7 |  | Populate if present |

## 4.3 CL Data Transformation Requirements for RDE:

| **Field Description** | **HL7 Field Loc.** | **Required Y/N/RE** | **Notes** |
| --- | --- | --- | --- |
| Message Header | MSH | Y |  |
| Sending Application | MSH.3 | Y |  |
| Sending Facility | MSH.4 | Y |  |
| Date/Time of Message | MSH.7 | Y | YYYYMMDDHHMMSS  Date/Time the ACK message was created |
| Message Type | MSH.9 | Y | For RDE ->RDE^O01  For RDS-> RDS^O01 |
| Message Control ID | MSH.10 | Y | Unique identifier for the message |
| Patient Identification | PID | Y |  |
| Patient ID (External ID) | PID.2 | Y | MRN |
| Patient ID (Internal ID) List | PID.3 | Y | Contains MRN, CPI  Unique for instance of care FIN# Moved PID:18 to PID:3 |
| Patient Name | PID.5 | Y |  |
| Date of Birth | PID.7 | Y |  |
| Patient Account Number | PID.18 | RE | FIN |
| Patient Visit | PV1 |  |  |
| Patient Class | PV1.2 |  |  |
| Assigned Patient Location | PV1.3 |  |  |
| Admission Type | PV1.4 |  |  |
| Attending Doctor | PV1.7 |  |  |
| Common Order | ORC | Y |  |
| Order Control | ORC.1 | Y | Order Control Codes Recognized:  NW= New Order (Order add/update)  CA= Cancel Order Request (Order cancel)  DC=Discontinue Order Request (Order discontinue)  HD=Hold Order Request (Order hold)  RL=Release Previous Hold (Order resume)  XO=Change Order Request (Order add/update)  XX=Order Changed Unsolicited (Order add/update) |
| Placer Order Number | ORC.2 | Y | Primary Key for Medication Orders |
| Order Number | ORC.2.1 | Y | Populated with Baycare Order ID |
| Order ID Type | ORC.2.2 | N | HNAM\_ORDERID |
| Filtler Order Number | ORC.3 | Y | Populated on RDS messages  Populated with Dispense ID |
| Entity Identifier |  |  |  |
| Name |  |  | HNAM\_DISPENSEID |
| Order Status | ORC.5 |  |  |
| Quantity/Timing | ORC.7 |  |  |
| Date/Time of Transaction | ORC.9 |  |  |
| Entered By | ORC.10 |  |  |
| Ordering Provider | ORC.12 | RE | ^FamilyName^GivenName^Initial |
| Order Effective Date/Time | ORC.15 | RE | Format - YYYYMMDDHHMMSS  Populated for ORDER messages |
| Order Control Code Reason | ORC.16 | RE | Format e.g. NW^Initial Doses  Populated for DISPENSE messages |
| Pharmacy/Treatment Order | RXO |  |  |
| Requested Give Code | RXO.1 |  |  |
| Requested Give Amount | RXO.2 |  |  |
| Requested Dispense Amount | RXO.11 |  |  |
| Number of Refills | RXO.13 |  |  |
| Requested Give Per (Time Unit) | RXO.17 |  |  |
| Requested Give Rate Amount | RXO.21 |  |  |
| Pharmacy/Treatment Route | RXR | Y |  |
| Route | RXR.1 | Y | This value should match one of the route codes in eCareManager route mapping utility; stored as Route and shown in the Medications View screen.  i.e. IV, PO |
| Administration Method | RXR.4 | RE |  |
| Pharmacy/Treatment Component Order | RXC | Y |  |
| Component Type | RXC.1 | Y |  |
| Component Code | RXC.2 | Y |  |
| Component Amount | RXC.3 | Y |  |
| Component Units | RXC.4 | Y |  |
| Pharmacy/Treatment Encoded Order segment | RXE | Y |  |
| Quantity/Timing | RXE.1 | RE | ^Interval^^Start Date/Time^^^Condition  Interval=Medication Frequency  Start Date/Time=D/T medication administration is ordered to begin  Condition=Indicates if medication is to be administered PRN |
| Give Code | RXE.2 | Y | Identifies drug ordered  Regular order = Identifier^Text^Coding System Name^^Alternate Text  Mixture order =^^^^Alternate Text  Identifier and Coding System Name used in combination to map corresponding drug  Coding System Name = BCHS\_MED  Text used to populate complete drug name  Alternate Text populates Drug Name in Regular Orders; Mixture Orders describes the complete name of the mixture |
| Give Amount – Minimum | RXE.3 | RE | Regular medications= combined with Units to display on Medications View screen  Mixtures=if null, then the Dose and Dose Units for each ingredient is populated as a regular drug |
| Give Amount – Maximum | RXE.4 | RE |  |
| Give Units | RXE.5 | RE | Regular medications=used to properly identify units in eCareManager  Mixtures = if RXE.3 is not populated, then Dose and Dose Units for each ingredient is populated as a regular drug |
| Pharmacist/Treatment Supplier’s ID | RXE.14 | RE |  |
| Prescription Number | RXE.15 | RE |  |
| Date/time of most recent refill or dose dispensed | RXE.18 | RE |  |
| Give Per (Time Unit) | RXE.22 | RE |  |
| Give Rate Amount | RXE.23 | RE |  |
| Give Rate Units | RXE.24 | RE |  |
| Expire Date | ZX1.1 |  |  |
| Pharmacy Type Code | ZX1.7 | Y | Required for ORDER (RDE) messages  Cerner Mod Object script has logic to retrieve this value from database.  Cloverleaf has a filter to look for the word ‘Cato’ in the value to qualify the ORDER (RDE) message to send to BD CATO system. |
| Dispense from Location | ZX1.9 | Y | Populated ONLY for DISPENSE (RDS) messages.  Required for DISPENSE (RDS) messages  Cerner mod object script has logic to retrieve the values from message tree.  Cloverleaf has a filter to look for word ‘Cato’ in the value to qualify the DISPENSE (RDS) message to send to BD CATO system. |
| set\_id | ZXE.1 |  |  |
| fill\_count | ZXE.2 |  |  |
| admin\_count | ZXE.3 |  |  |
| admin\_dt\_tm | ZXE.4 | Y | This field is populated fine on the pharmacy orders that are not PRN; and on PRN orders with Extra Dose.  Since it is blank on PRN meds with Initial Doses, Cloverleaf has logic added for the following:  IF message type = RDS  RXE-1.4 = PRN  ORC-16.2 -= Initial Doses  Copy RXE-18 value to ZXE-4 field |
| disp\_amt | ZXE.5 |  |  |
| disp\_units | ZXE.6 |  |  |
| Identifier | ZXE.6.1 |  |  |
| Text | ZXE.6.2 |  |  |
| Observation/Result | OBX |  |  |
| Set ID | OBX.1 | Y |  |
| Value Type | OBX.2 | Y |  |
| Observation Identifier | OBX.3 | Y |  |
| Observation Value | OBX.5 | Y |  |

## 4.3 Sample Message

**Message examples from Cerner to Cloverleaf**

# 1 **Pharmacy ordered message:**

**RDE**

MSH|^~\&|HNAM|SJS|EICU|SJS|20180702112430||RDE^O01|Q4158902000T5403631059||2.3||||||8859/1

PID|1|7000016967^^^BCMRN^MRN^SOARIAN|7000016967^^^BCMRN^MRN^SOARIAN~810016515^^^BayCare CMRN^Community Medical Record Number^SOARIAN|810016515^^^BayCare EAD CPI^Historical CMRN^SOARIAN|CATO^SJSONE^^^^^Current||19801025|F||W|2995 DREW STREET^^Clearwater^FL^33759^^Home||||English|S|CHR|6000036527^^^BCFN^FIN NBR^SOARIAN||||NOH|||0

PV1|1|I|A3EA^3209^A^SJS^^Bed(s)^SJS|R|||MS056973^Urzey^Bcidib^G^^^^^BayCare Dr Number|||MED||||CD:32770251||N|MS056973^Urzey^Bcidib^G^^^^^BayCare Dr Number|I|||||||||||||||||||||SJS||Active|||20180118125700

ORC|NW|13507309211^HNAM\_ORDERID|||Ordered||^q12hr (interval)^^20180625140000||20180625131841|PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier||FJ1525089^Urzey^Bcidib^G^^^^^DEA No^Personnel^^^DOCDEA^CD:490837690~MS056973^Urzey^Bcidib^G^^^^^CD:228049736^Personnel^^^Username^CD:490837690~OTH000^Urzey^Bcidib^G^^^^^UPIN^Personnel^^^DOCUPIN^CD:490837690~1851542922^Urzey^Bcidib^G^^^^^NPI Number^Personnel^^^National Provider Identifier^CD:490837690~ME105040^Urzey^Bcidib^G^^^^^Doctor License Number^Personnel^^^LICENSENBR^CD:490837690~13889^Urzey^Bcidib^G^^^^^MCS^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^MDU^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^MPH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^NBY^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SJN^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SFB^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SAH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SJH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SJW^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~MS056973^Urzey^Bcidib^G^^^^^BayCare Dr Number^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~6359829970002^Urzey^Bcidib^G^^^^^CD:379418085^Personnel^^^SureScripts Prescriber Index~13889^Urzey^Bcidib^G^^^^^CD:1025606149^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~6359829970003^Urzey^Bcidib^G^^^^^CD:379418085^Personnel^^^SureScripts Prescriber Index~6359829970004^Urzey^Bcidib^G^^^^^CD:379418085^Personnel^^^SureScripts Prescriber Index|||20180625131840

RXO|RXCUST\_INTERMITTENT^^^^Vancocin|250|||||||||0||0||||H1.500000||||166.670000|mL/hr

RXR|IV^IV|||INTERMITTENT

RXC|A|vancomycin^vancomycin^PYXIS^^Vancocin|1250|mg

RXC|B|Dextrose 5% in Water^Dextrose 5%^PYXIS^^Dextrose 5%|250|mL

RXE|^q12hr (interval)^^20180625140000|RXCUST\_INTERMITTENT^^^^Vancocin|250||mL|||||||||PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier|13507309211|||||||H1.500000|166.670000|mL/hr

RXR|IV^IV|||INTERMITTENT

RXC|A|2344023^<<vancomycin 500 mg Inj^Pyxis Interface ID^^Vancocin|3|EA

RXC|B|2340930^Dextrose 5%- 250 ml^Pyxis Interface ID^^Dextrose 5%|1|EA

ZX1|||||||Intermittent Cato

OBX|1|IS|Stop Type^Stop Type^PYXIS

OBX|2|NM|Total Volume^Total Volume^PYXIS||250

OBX|3|TS|Next Dose Dt Tm^Next Dose Dt Tm^PYXIS||20180625140000

OBX|4|ID|CD:3108491527^RT Task indicator||N

**RDS**

MSH|^~\&|HNAM|SJS|EICU|SJS|20180625131844||RDS^O01|Q4158902006T5402712027||2.3||||||8859/1

PID|1|7000016967^^^BCMRN^MRN^SOARIAN|7000016967^^^BCMRN^MRN^SOARIAN~810016515^^^BayCare CMRN^Community Medical Record Number^SOARIAN|810016515^^^BayCare EAD CPI^Historical CMRN^SOARIAN|CATO^SJSONE^^^^^Current||19801025|F||W|2995 DREW STREET^^Clearwater^FL^33759^^Home||||English|S|CHR|6000036527^^^BCFN^FIN NBR^SOARIAN||||NOH|||0

PV1|1|I|A3EA^3209^A^SJS^^Bed(s)^SJS|R|||MS056973^Urzey^Bcidib^G^^^^^BayCare Dr Number|||MED||||CD:32770251||N|MS056973^Urzey^Bcidib^G^^^^^BayCare Dr Number|I|||||||||||||||||||||SJS||Active|||20180118125700

ORC|NW|13507309211^HNAM\_ORDERID|329752152^HNAM\_DISPENSEID|329752151^HNAM\_RUNID|Ordered||^q12hr (interval)^^20180625140000^^^^vancomycin + D5W IV q12hr (interval) 166.67 mL/hr||20180625131844||PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier|FJ1525089^Urzey^Bcidib^G^^^^^DEA No^Personnel^^^DOCDEA^CD:490837690~MS056973^Urzey^Bcidib^G^^^^^CD:228049736^Personnel^^^Username^CD:490837690~OTH000^Urzey^Bcidib^G^^^^^UPIN^Personnel^^^DOCUPIN^CD:490837690~1851542922^Urzey^Bcidib^G^^^^^NPI Number^Personnel^^^National Provider Identifier^CD:490837690~ME105040^Urzey^Bcidib^G^^^^^Doctor License Number^Personnel^^^LICENSENBR^CD:490837690~13889^Urzey^Bcidib^G^^^^^MCS^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^MDU^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^MPH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^NBY^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SJN^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SFB^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SAH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SJH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~13889^Urzey^Bcidib^G^^^^^SJW^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~MS056973^Urzey^Bcidib^G^^^^^BayCare Dr Number^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~6359829970002^Urzey^Bcidib^G^^^^^CD:379418085^Personnel^^^SureScripts Prescriber Index~13889^Urzey^Bcidib^G^^^^^CD:1025606149^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~6359829970003^Urzey^Bcidib^G^^^^^CD:379418085^Personnel^^^SureScripts Prescriber Index~6359829970004^Urzey^Bcidib^G^^^^^CD:379418085^Personnel^^^SureScripts Prescriber Index||||NW^Initial Doses

RXE|^q12hr (interval)^^20180625140000^^^^vancomycin + D5W IV q12hr (interval) 166.67 mL/hr|2344023^<<vancomycin 500 mg Inj^Pyxis Interface ID|3|250|EA^EA^^^1,250 mg|Inj^Inj||||3|EA^EA|||PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier|13507309211|||20180625131844||||H2|166.67|mL/hr^mL/hr

RXR|IV^IV|||IVP

ZXE|1|1|1|20180625140000|3|EA^EA

ZX1|||||||Intermittent Cato||JS Cato Non-Sterile

RXE|^q12hr (interval)^^20180625140000^^^^vancomycin + D5W IV q12hr (interval) 166.67 mL/hr|2340930^Dextrose 5%- 250 ml^Pyxis Interface ID|1|250|EA^EA^^^250 mL|Inj^Inj||||1|EA^EA|||PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier|13507309211|||20180625131844||||H2|166.67|mL/hr^mL/hr

RXR|IV^IV|||IVP

ZXE|1|1|1|20180625140000|1|EA^EA

**Message # 2 PRN med Initial dose**

**RDE**

MSH|^~\&|HNAM|MCS|EICU|MCS|20180709101008||RDE^O01|Q4159849037T5404564595||2.3||||||8859/1

PID|1|7000057822^^^BCMRN^MRN^SOARIAN|7000057822^^^BCMRN^MRN^SOARIAN~810068421^^^BayCare CMRN^Community Medical Record Number^SOARIAN||CATO^TESTONE^^^^^Current||19820704|F||W|2995 DREW STREET^^Clearwater^FL^33759^^Home||||English|S|CHR|6000087981^^^BCFN^FIN NBR^SOARIAN||||NOH|||0

PV1|1|I|5EMC^5342^P^MCS^^Bed(s)^Mease Countrysi|R|||MS063863^Urzey^Dida^Z^^^^^BayCare Dr Number|||MED||||CD:32770251||N|MS063863^Urzey^Dida^Z^^^^^BayCare Dr Number|I||8|||||||||||||||||||MCS||Active|||20180612102800

ORC|NW|13525613037^HNAM\_ORDERID|||Ordered||^q12hr^^20180709100500^^^PRN||20180709101004|PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier||FJ3709512^Urzey^Dida^Z^^^^^DEA No^Personnel^^^DOCDEA^CD:490837690~17964^Urzey^Dida^Z^^^^^MCS^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^MDU^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^MPH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^NBY^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SJN^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SJH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SJW^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SFB^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SAH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~MS063863^Urzey^Dida^Z^^^^^CD:228049736^Personnel^^^Username^CD:490837690~1063649937^Urzey^Dida^Z^^^^^NPI Number^Personnel^^^National Provider Identifier^CD:490837690~OS11855^Urzey^Dida^Z^^^^^Doctor License Number^Personnel^^^LICENSENBR^CD:490837690~MS063863^Urzey^Dida^Z^^^^^BayCare Dr Number^Personnel^^^ORGANIZATION DOCTOR^CD:490837690|||20180709101005

RXO|levetiracetam^levetiracetam^PYXIS^^Keppra|500||mg^^^^500 mg / 5 mL|Soln^Soln||||||0||0

RXR|PO^PO|||MED

RXE|^q12hr^^20180709100500^^^PRN|2342019^levetiracetam 500 mg/5 mL soln^Pyxis Interface ID^^Keppra|500||mg^^^^500 mg / 5 mL|Soln^Soln|^Concentration = 100mg/mL|||1|EA|||PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier|13525613037

RXR|PO^PO|||MED

ZX1|||||||Med Cato

OBX|1|IS|Stop Type^Stop Type^PYXIS

OBX|2|ID|CD:3108491527^RT Task indicator||N

**RDS**

MSH|^~\&|HNAM|MCS|EICU|MCS|20180709101010||RDS^O01|Q4159849047T5404564615||2.3||||||8859/1

PID|1|7000057822^^^BCMRN^MRN^SOARIAN|7000057822^^^BCMRN^MRN^SOARIAN~810068421^^^BayCare CMRN^Community Medical Record Number^SOARIAN||CATO^TESTONE^^^^^Current||19820704|F||W|2995 DREW STREET^^Clearwater^FL^33759^^Home||||English|S|CHR|6000087981^^^BCFN^FIN NBR^SOARIAN||||NOH|||0

PV1|1|I|5EMC^5342^P^MCS^^Bed(s)^Mease Countrysi|R|||MS063863^Urzey^Dida^Z^^^^^BayCare Dr Number|||MED||||CD:32770251||N|MS063863^Urzey^Dida^Z^^^^^BayCare Dr Number|I||8|||||||||||||||||||MCS||Active|||20180612102800

ORC|NW|13525613037^HNAM\_ORDERID|329752473^HNAM\_DISPENSEID|329752472^HNAM\_RUNID|Ordered||^q12hr^^20180709100500^^^PRN^levetiracetam 500 mg / 5 mL Soln PO q12hr PRN Other: SEE COMMENT||20180709101009||PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier|FJ3709512^Urzey^Dida^Z^^^^^DEA No^Personnel^^^DOCDEA^CD:490837690~17964^Urzey^Dida^Z^^^^^MCS^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^MDU^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^MPH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^NBY^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SJN^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SJH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SJW^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SFB^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SAH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~MS063863^Urzey^Dida^Z^^^^^CD:228049736^Personnel^^^Username^CD:490837690~1063649937^Urzey^Dida^Z^^^^^NPI Number^Personnel^^^National Provider Identifier^CD:490837690~OS11855^Urzey^Dida^Z^^^^^Doctor License Number^Personnel^^^LICENSENBR^CD:490837690~MS063863^Urzey^Dida^Z^^^^^BayCare Dr Number^Personnel^^^ORGANIZATION DOCTOR^CD:490837690||||NW^**Initial Doses**

RXE|^q12hr^^20180709100500^^^PRN^levetiracetam 500 mg / 5 mL Soln PO q12hr PRN Other: SEE COMMENT|2342019^levetiracetam 500 mg/5 mL soln^Pyxis Interface ID|1||EA^EA^^^500 mg / 5 mL|Soln^Soln|^Concentration = 100mg/mL|||1|EA^EA|||PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier|13525613037|||20180709101010

RXR|PO^PO|||MED

ZXE|1|1|1||1|EA^EA

ZX1|||||||Med Cato||MC Cato Non-Sterile

**# 3 PRN med Extra Dose e.g. RDS**

MSH|^~\&|HNAM|MCS|EICU|MCS|20180709102017||RDS^O01|Q4159849816T5404566090||2.3||||||8859/1

PID|1|7000057822^^^BCMRN^MRN^SOARIAN|7000057822^^^BCMRN^MRN^SOARIAN~810068421^^^BayCare CMRN^Community Medical Record Number^SOARIAN||CATO^TESTONE^^^^^Current||19820704|F||W|2995 DREW STREET^^Clearwater^FL^33759^^Home||||English|S|CHR|6000087981^^^BCFN^FIN NBR^SOARIAN||||NOH|||0

PV1|1|I|5EMC^5342^P^MCS^^Bed(s)^Mease Countrysi|R|||MS063863^Urzey^Dida^Z^^^^^BayCare Dr Number|||MED||||CD:32770251||N|MS063863^Urzey^Dida^Z^^^^^BayCare Dr Number|I||8|||||||||||||||||||MCS||Active|||20180612102800

ORC|CD:2344|13525613037^HNAM\_ORDERID|329752479^HNAM\_DISPENSEID|329752478^HNAM\_RUNID|Ordered||^q12hr^^20180709100500^^^PRN^levetiracetam 500 mg / 5 mL Soln PO q12hr PRN Other: SEE COMMENT||20180709102017||PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier|FJ3709512^Urzey^Dida^Z^^^^^DEA No^Personnel^^^DOCDEA^CD:490837690~17964^Urzey^Dida^Z^^^^^MCS^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^MDU^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^MPH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^NBY^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SJN^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SJH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SJW^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SFB^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~17964^Urzey^Dida^Z^^^^^SAH^Personnel^^^ORGANIZATION DOCTOR^CD:490837690~MS063863^Urzey^Dida^Z^^^^^CD:228049736^Personnel^^^Username^CD:490837690~1063649937^Urzey^Dida^Z^^^^^NPI Number^Personnel^^^National Provider Identifier^CD:490837690~OS11855^Urzey^Dida^Z^^^^^Doctor License Number^Personnel^^^LICENSENBR^CD:490837690~MS063863^Urzey^Dida^Z^^^^^BayCare Dr Number^Personnel^^^ORGANIZATION DOCTOR^CD:490837690||||CD:2344^**Extra Dose**

RXE|^q12hr^^20180709100500^^^PRN^levetiracetam 500 mg / 5 mL Soln PO q12hr PRN Other: SEE COMMENT|2342019^levetiracetam 500 mg/5 mL soln^Pyxis Interface ID|1||EA^EA^^^500 mg / 5 mL|Soln^Soln|^Concentration = 100mg/mL|||1|EA^EA|||PJK89237^Konidas^Pete^^^^^^External Id^Personnel^^^External Identifier|13525613037|||20180709102017

RXR|PO^PO|||MED

**ZXE**|1|1|1|**20180709102014**|1|EA^EA

ZX1|||||||Med Cato||MC Cato Non-Sterile

**Test messages from Prod after the build on 7/23, which posted messages to CATO accurately:**

MSH|^~\&|HNAM|SJS|EICU|SJS|20180724090719||RDE^O01|Q4643421507T6147172563||2.3||||||8859/1

PID|1|2104653073^^^BCMRN^MRN^SOARIAN|1116400^^^SJH MRN^MRN^SJH~102830371^^^BayCare CMRN^Community Medical Record Number^SOARIAN~907609^^^SAH MRN^MRN^SAH~2104653073^^^BCMRN^MRN^SOARIAN~981752870^^^MPH MRN^MRN^MPH~960384649^^^MCS MRN^MRN^MCS~2667274^^^CD:1069890483^MRN^CD:1054310291|102830371^^^BayCare EAD CPI^Historical CMRN^SOARIAN~A722FC6E1A994CD3A9B84BC727303DF7^^^CD:798794899^Messaging|TEST^TEST^^^^^Current||19010101|M||W|1167 Peter [Blvd^^Clearwater^FL^33755^^Home~none@baycare.org^^^^^^e-mail||^PRN^^none@baycare.org~(813)555-5555^PRN||English|S|UNK|1100830763^^^BCFN^FIN](mailto:Blvd%5e%5eClearwater%5eFL%5e33755%5e%5eHome~none@baycare.org%5e%5e%5e%5e%5e%5ee-mail||%5ePRN%5e%5enone@baycare.org~(813)555-5555%5ePRN||English|S|UNK|1100830763%5e%5e%5eBCFN%5eFIN) NBR^SOARIAN||||NOH|||0

PV1|1|O|RADSH^^^SJS^^Ambulatory(s)^SJS||||MS006981^Woeste^Troy^A^^^^^BayCare Dr Number|||RAD||||||N|MS006981^Woeste^Troy^A^^^^^BayCare Dr Number|O|||||||||||||||||||||SJS||Active|||20150630080000

ORC|NW|15189277877^HNAM\_ORDERID|||Ordered||^q12hr^^20180724210000||20180724090718|^Walton^Joseph^R^^^^^^Personnel||^SYSTEM^Donotchange^^^^^^^Personnel|||20180724090719

RXO|RXCUST\_INTERMITTENT^^^^vancomycin|250|||||||||0||0||||H1.500000||||166.670000|mL/hr

RXR|IV^IV|||INTERMITTENT

RXC|A|vancomycin^vancomycin^PYXIS^^vancomycin|1250|mg

RXC|B|Dextrose 5% in Water^Dextrose 5%^PYXIS^^Dextrose 5%|250|mL

RXE|^q12hr^^20180724210000|RXCUST\_INTERMITTENT^^^^vancomycin|250||mL|||||||||^Walton^Joseph^R^^^^^^Personnel|15189277877|||||||H1.500000|166.670000|mL/hr

RXR|IV^IV|||INTERMITTENT

RXC|A|2344023^<<vancomycin 500 mg Inj^Pyxis Interface ID^^vancomycin|3|EA

RXC|B|2340930^Dextrose 5%- 250 ml^Pyxis Interface ID^^Dextrose 5%|1|EA

ZX1|||||||Intermittent DEMAND Cato

OBX|1|IS|Stop Type^Stop Type^PYXIS

OBX|2|NM|Total Volume^Total Volume^PYXIS||250

MSH|^~\&|HNAM|SJS|EICU|SJS|20180724090719||RDS^O01|Q4643421529T6147172595||2.3||||||8859/1

PID|1|2104653073^^^BCMRN^MRN^SOARIAN|1116400^^^SJH MRN^MRN^SJH~102830371^^^BayCare CMRN^Community Medical Record Number^SOARIAN~907609^^^SAH MRN^MRN^SAH~2104653073^^^BCMRN^MRN^SOARIAN~981752870^^^MPH MRN^MRN^MPH~960384649^^^MCS MRN^MRN^MCS~2667274^^^CD:1069890483^MRN^CD:1054310291|102830371^^^BayCare EAD CPI^Historical CMRN^SOARIAN~A722FC6E1A994CD3A9B84BC727303DF7^^^CD:798794899^Messaging|TEST^TEST^^^^^Current||19010101|M||W|1167 Peter [Blvd^^Clearwater^FL^33755^^Home~none@baycare.org^^^^^^e-mail||^PRN^^none@baycare.org~(813)555-5555^PRN||English|S|UNK|1100830763^^^BCFN^FIN](mailto:Blvd%5e%5eClearwater%5eFL%5e33755%5e%5eHome~none@baycare.org%5e%5e%5e%5e%5e%5ee-mail||%5ePRN%5e%5enone@baycare.org~(813)555-5555%5ePRN||English|S|UNK|1100830763%5e%5e%5eBCFN%5eFIN) NBR^SOARIAN||||NOH|||0

PV1|1|O|RADSH^^^SJS^^Ambulatory(s)^SJS||||MS006981^Woeste^Troy^A^^^^^BayCare Dr Number|||RAD||||||N|MS006981^Woeste^Troy^A^^^^^BayCare Dr Number|O|||||||||||||||||||||SJS||Active|||20150630080000

ORC|NW|15189277877^HNAM\_ORDERID|359543187^HNAM\_DISPENSEID|359543182^HNAM\_RUNID|Ordered||^q12hr^^20180724210000^^^^vancomycin + D5W  IV q12hr 166.67 mL/hr||20180724090719||^Walton^Joseph^R^^^^^^Personnel|^SYSTEM^Donotchange^^^^^^^Personnel||||NW^Initial Doses

RXE|^q12hr^^20180724210000^^^^vancomycin + D5W  IV q12hr 166.67 mL/hr|2344023^<<vancomycin 500 mg Inj^Pyxis Interface ID|3|250|EA^EA^^^1,250 mg|Inj^Inj||||3|EA^EA|||^Walton^Joseph^R^^^^^^Personnel|15189277877|||20180724090720||||H2|166.67|mL/hr^mL/hr

RXR|IV^IV|||IVP-

ZXE|1|1|1|20180724210000|3|EA^EA

ZX1|||||||Intermittent DEMAND Cato||JS Cato Non-Sterile

RXE|^q12hr^^20180724210000^^^^vancomycin + D5W  IV q12hr 166.67 mL/hr|2340930^Dextrose 5%- 250 ml^Pyxis Interface ID|1|250|EA^EA^^^250 mL|Inj^Inj||||1|EA^EA|||^Walton^Joseph^R^^^^^^Personnel|15189277877|||20180724090720||||H2|166.67|mL/hr^mL/hr

RXR|IV^IV|||IVP

# **5. Testing**

## 5.1. Unit Testing Scenarios

|  |  |
| --- | --- |
| **Scenario** | **Expected Result** |
| Add Pharmacy orders for IV Fluids in Cerner Pharmnet app. | Ensure that both ORDER and DISPENSE messages are processed to BD CATO system via Cerner /Cloverleaf engine. |
| Add Extra Dose to the existing Pharmacy orders | Ensure that DISPENSE message is processed from Cerner Pharmnet to BD CATO system |
| Pharmacy orders for PRN IV fluids | Ensure that both ORDER and DISPENSE messages are processed to BD CATO system |
| Add Extra Dose to the existing Pharmacy PRN orders | Ensure that DISPENSE message is processed to BD CATO system |
|  |  |

## 5.2 Integrated Testing Scenarios

|  |  |
| --- | --- |
| **Scenario** | **Expected Result** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## 5.3 Testing Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Phase** | **Date** | **Department** | **Team Member** |
| PH1.UNIT |  | Pharmnet | Pete Konidas, Joseph Walton. |
| PH1.INTEGRATED | 07/22/18 | Project Manager | Susan Clay |

### 

## 5.4 Piloting

List the facilities and associated networks in scope for pilot testing.

## 5.5 Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Domain** | **Date** | **Department** | **Team Member** |
| M30 | 05/30/18 |  |  |
| P30 | 07/31/18 |  |  |
|  |  |  |  |

# 6. Deployment / Implementation Model

Provide the detail as to how to deploy the solution defined in the IDBB from both the BAYCARE and vendor perspective.

## 6.1 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 |  |  | |  | |  |  |  |

* End of document