**Soarian ADT to Cerner**

**1.11**

**Prepared By: Rich Allison**

**Date: 10/17/18**

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# **Document Control**

## Resources

|  |  |  |
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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 04/20/16 | Rich Allison | Originally Created |
| V1.1 | 6/17/16 | Rich Allison | Updated for AVV Ghost Patients on FirstNet tracker board |
| V1.2 | 9/14/16 | Rich Allison | Updated phone number logic |
| V1.3 | 4/19/17 | Rich Allison | Behavior Health updates |
| V1.4 | 5/30/2017 | Sarah Thies | Made a ***note*** about disaster flag from Soarian |
| V1.5 | 5/31/2017 | Sarah Thies | Made a ***note*** about insurance authorization data sent to Cerner per Acute Care workflow and added sample messages |
| V1.6 | 6/30/2017 | Sarah Thies | Added ***Production*** Behavioral Health messages validated and accepted by Core & team prior to back load and full roll out |
| v1.7 | 7/11/17 | Jerome Starke | Added HIE Patient Consent flag |
| v1.8 | 8/21/17 | Tiffany Bohall | Updated non-functional requirements and new more recent sample messages for IN1.14 insurance authorization addition |
| v1.9 | 12/11/17 | Tiffany Bohall | Updated the data transformation requirements to include additional logic for MDC location code, which mirrors Behavioral Health logic. |
| V1.10 | 8/1/2018 | Tiffany Bohall | Updated the data transformations requirements to include additional logic for insurance address, city, state, zip code and phone number as well as hard coding some values for these fields: HPADR, HPPH and HPPH2. |
| V1.11 | 10/17/18 | Tiffany Bohall | Updated confidential indicator logic in the translate. |

# 1. Introduction

## 1.1 Purpose

This document outlines the contents and logic of the Soarian ADT to Cerner translation interface.

## 1.2 Project Scope

Develop an interface for Soarian ADT 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

## 1.4 Document References

**Spec:**

None Provided

# 2. Diagram

# 3. Requirements

## 3.1 Functional Requirements

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| FR.2015.1.0 | Filter – tpsAdvHL7Filter | Block BAR and BABYWT messages. |
| FR.2015.2.0 | Filter – filterHL7MesssageNEW | Block PSI messages. |
| FR.2015.3.0 | Filter – filterHL7MesssageNEW | Block FIRSTNET messages. |
| FR.2015.4.0 | Filter – filterHL7Messsage2NEW | Block Physician Portal messages. |
| FR.2015.5.0 | Filter – filterHL7MesssageNEW | Block CBO Z01 messages. |
| FR.2015.6.0 | Filter – continueHL7Message | Send only A05 CBO Z01 messages. |
| |  | | --- | | FR.2014.03.3 | | |  |  | | --- | --- | | Patient’s Email address |  | |  |  | |  |
|  |  | Patient’s email address is sent in the 2nd iteration of the Patient Address fields. The patient’s email address or “none” is sent in ~PID.11.1 with EMAIL as the type of address in ~PID.11.7. The ADT mod object scripts check to see if the email address sent in the message matches the one in the Cerner DB. |

## 3.2 Non-Functional Requirements

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| NFR.2015.1.0 | Table updates | Table updates for soarian encounter location suffix’s, soarian system IDs and patient types come from the Soarian application team. |
| NFR.2015.2.0 | PV1-38, Diet Type | ***Note:*** From Soarian ADT, Cloverleaf will pass the value YES in PV1-38 when there is a disaster. |
| NFR.2017.1.0 | IN1-14 | ***Note:*** From Soarian ADT, Cloverleaf will pass the values CLIN REQ, CLIN SENT and the actual Authorization Number from ZAR-7 to IN1-14 per Acute Care Manager workflow. |

## 3.3 Messaging Protocols

Below are listed the details for the messaging protocols that will be leveraged for this integration.

### 3.3.1 Inbound to the BayCare Cloverleaf SFBSAH

* TCP IP MLLP
* Port: 20004
* IP Address: 10.5.250.201 Production 10.5.250.203 Test

### 3.3.2 Inbound to the BayCare Cloverleaf SJHSJW

* TCP IP MLLP
* Port: 20003
* IP Address: 10.5.250.201 Production 10.5.250.203 Test

### 3.3.3 Inbound to the BayCare Cloverleaf SJNSJS

* TCP IP MLLP
* Port: 20006
* IP Address: 10.5.250.201 Production 10.5.250.203 Test

### 3.3.4 Inbound to the BayCare Cloverleaf MPHNBY

* TCP IP MLLP
* Port: 20002
* IP Address: 10.5.250.201 Production 10.5.250.203 Test

### 3.3.5 Inbound to the BayCare Cloverleaf MCSMDU

* TCP IP MLLP
* Port: 20010
* IP Address: 10.5.250.201 Production 10.5.250.203 Test

### 3.3.6 Inbound to the BayCare Cloverleaf BOI

* TCP IP MLLP
* Port: 20005
* IP Address: 10.5.250.201 Production 10.5.250.203 Test

### 3.3.7 Inbound to the BayCare Cloverleaf WHHWHWBRM

* TCP IP MLLP
* Port: 20009
* IP Address: 10.5.250.201 Production 10.5.250.203 Test

### 3.3.8 Outbound to Cerner

* TCP IP MLLP
* Port: 10027
* IP Address: 159.140.43.191 Production BAYCFLAPP5 Test

# 4. HL7 Messaging

## 4.1 Messaging Format

For each HL7 interface specified in Section 2 of this document, identify the message type, segments and events included in the interface. Also provide links to the HL7 specifications in the external document reference.

### 4.1.1 Segments

The segments utilized for this interfaces are:

|  |
| --- |
| HL7 2.6/Soarian  MSH  [ZSH] |
| EVN |
| PID |
| [ PD1 ] |
| [ MRG ] |
| [{ NK1 } ] |
| [ PV1 ] |
| [ PV2 ] |
| [{ ROL } ] |
| [{ OBX } ] |
| [{ DG1 } ] |
| [{ DRG } ] |
| [{ PR1 } ] |
| [{ GT1 } ] |
| [ ZG1 ] |
| [ { |
| IN1 |
| [ IN2 ] |
| [ ZIN ] |
| [ ZAR ] |
| [{ PRT } ] |
| } ] |
| [ PDA ] |
| [ ZPV ] |
| [ ZP1 ] |
| [{ ZPT } ] |

|  |
| --- |
| HL7 2.6/Cerner  MSH |
| EVN |
| PID  [{ NTE }] |
| [ PD1 ]  [ ZPI ] |
| [ MRG ] |
| [{ NK1 } ] |
| [ PV1 ] |
| [ PV2 ]  [ ZVI ] |
| [{ ROL } ] |
| [{ OBX } ] |
| [{ DG1 } ] |
| [{ DRG } ] |
| [{ PR1 } ] |
| [{ GT1 } ] |
| [ ZG1 ] |
| [ { |
| IN1 |
| [ IN2 ] |
| [ ZIN ] |
| [ ZAR ] |
| [{ PRT } ] |
| } ] |
| [ PDA ] |
| [ ZPV ] |
| [ ZP1 ] |
| [{ ZPT } ] |

### 4.1*.2* Messaging Event Types

Below are the messages types necessary for this integration

|  |  |
| --- | --- |
| **Event Type** | **Description** |
| ADT^A01 | Admit |
| ADT^A02 | Transfer |
| ADT^A03 | Discharge |
| ADT^A04 | Register |
| ADT^A05 | Pre-Admit |
| ADT^A06 | Change outptnt to inptnt |
| ADT^A07 | Change inptnt to outptnt |
| ADT^A08 | Update |
| ADT^A10 | Patient arriving |
| ADT^A11 | Cancel admit/visit |
| ADT^A13 | Cancel discharge |
| ADT^A38 | Cancel pre-admit |
|  |  |

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| For a list of all data fields being sent to Cerner, see the Soarian ADT Interface. |  |  |  |  |  |
| Sending facility | MSH.4 | Y | HD | 227 | Convert the “BOI” sending facility to a valid BOI org code using table soarf\_boi\_org\_codes. |
| Date/Time Planned Event | EVN.3 | Y | DTM | 24 | If the Patient Status Code is “Scheduled” copy the Admit Date to EVN:3 |
| Patient Address | PID.11 | Y | XAD | 250 | If the patient has an email address copy “HOME” to the Address Type. Convert the email address to lower case.  Add the email address after the “HOME” tag and tag it as “EMAIL”. |
| Patient Phone Numbers | PID.13 | Y | XTN | 250 | Find and save the preferred phone nbr (tagged as Pref by Soarian).  Concatenate the phone use code and equipment type; include only ORNCP (Cell) and PRNPH (Home).  Format the phone numbers ((444)444-4444^^PRN).  Add the preferred phone nbr to the end of the phone nbr list and tag as PREF.  Find and save the email address (tagged as NET) |
| Mother’s Identifier | PID.21 | N | CX | 250 | Send the Mother’s Identifier if the Identifier Type Code is “VCD”. |
| Assigned Patient Location | PV1.3 | Y | PL | 80 | If no Patient Location, if the Patient Status Code is “Scheduled” and the Patient Class is “I”, send “PRAD” (inpatient preadmit) in the Patient Location.  Otherwise, send the Servicing Facility (Clinic Code) as the Patient Location.  Added code to append and concatenate the Behavioral Health encounter location mnemonic and MDC to the building identifier in PV1.3.6. |
| Outreach Lab Client Code | PV1.3 | N | PL | 80 | If the Clinical Organization Number (Soarian Encounter Provider ID) is either “2146”, “3816”, “1219”, “3817”, “18295”, or “18293” get the Client Code from PV1.52 and copy it to MSH.6 (Receiving Facility) and PV1.3 (Patient Location -nurse station, facility and building). |
| VIP Indicator | PV1.16 | Y | IS | 5 | Used for Confidential Indicator.  If the VIP Indicator is either “PerPt”, “Other” or “Adopt” copy “Y” to PV1.16 (VIP Indicator) else copy “”. |
| Servicing Facility/Encounter Location | PV1.39 | Y | IS | 25 | Retrieve the encounter location suffix from the soarf\_enctr\_loc\_suffix table.  Concatenate the Hospital Service (PV1.10) with the encounter location suffix and copy to PV1.39. |
| Soarian User Fields:  Disaster Flag  AVV (patient registered in error in FirstNet, suppress the cancel discharge so that the patient does not reappear on the FirstNet tracking board) | PV1.39  PV1.38 | N | IS  CWE | 25  705 | If OBX.3 (Observation ID) is “1DISASTR” and OBX.5 (Observation Value) is “Y”, change the Hospital Service in the Encounter Location (PV1.39) to “DST” and copy “YES” to Diet Type (PV1.38)  If the message type is A13 (Cancel Discharge), the Patient Class is “E” and OBX.5 (Observation Value) is “AVV”, SUPPRESS the A13 message from going to Cerner.  In the cerner\_soarf\_adt.xlt, If PV1.36 (Discharge Disposition) is “AVV”, send “AVV” to Soarian in a user field for the A13 message.  Copy “1” to OBX.1  Copy “ST” to OBX.2  Copy “2AVV” to OBX.3.[0]  Copy “LSFUSERDATAE” to OBX.[2]  Copy “AVV” to OBX.5  Copy “R” to OBX.11 |
| Admit Date | PV1.44 | Y |  |  |  |
| Set ID | IN1.1 | Y |  |  | Copy |
| Insurance Plan ID | IN1.2 | Y |  |  | Copy |
| Insurance Company ID | IN1.3 | Y |  |  | Copy |
| Insurance Company Name | IN1.4 | Y |  |  | Copy |
| Insurance Company Address | IN1.5 | Y |  |  | Iterate through IN1.5 and If IN1.5.0 does not =null, if IN1.5.10 =HCS-M, copy subfields IN1.5.0 through IN1.5.4 and hard code ‘HPADR’. Else, copy subfields IN1.5.0 through IN1.5.4 and hard code ‘HPADR’. |
| Insurance Company Phone Number | IN1.7 | Y |  |  | Iterate through IN1.7 and if IN1.7 =WPN, concatenate IN1.7.5 with IN1.7.6 into subfield 0 with TCL proc that adds parenthesis and a dash where appropriate. If the output of IN1.7.0 does not = null, hard code “EPR” in IN1.7.1. Hard code ‘HPPH’ in IN1.7.1 and copy the output of IN1.7.0 outbound, while also hard coding ‘HPPH2’ outbound in IN1.7.1. |
| Group Number | IN1.8 | Y |  |  | Copy |
| Insured’s Group Emp ID | IN1.9 | Y |  |  | Copy |
| HIE Patient Consent | OBX.3  OBX.5 |  |  |  | When HIE Patient consent is sent over Cerner is expecting CIE in OBX;3  If the patient has consented then a Y is sent in OBX:5 so that OK TO SHARE is stored on the person\_info table in Cerner. |
| ZPT - Patient Alert Segment  Isolation (infection control) indicator  Code grey flag  VIP | PV2.7  PV1.14  OBX.3  OBX.5  ZPI.21 |  | IS  IS  CWE  CD  ST | 11  6  705  581  3 | If ZPT.1 (Category Code) is “BC CONSID”, copy ZPT.2 (Value) to PV2.7 (Visit User Code) as follows:  MRSA send "M" to PV2.7  Resistant\* send "R" to PV2.7  VRE send "V" to PV2.7  If ZPT.1 is “PT LIMITATIONS” and ZPT.2 is “TR”, copy ZPT.2 to PV1.14 (Admit Source)  If ZPT.1 is “PT LIMITATIONS” and ZPT.2 is “PV”, create an OBX segment, send “PATIENT BANNER” in OBX.3 (Observation ID) and ZPT.2 in OBX.5 (Observation Value)  If ZPT.1 is “BC CONSID” and ZPT.2 contains the word “Foundation” copy “V” to ZPI.21 (Process Alert Code) |
| Newborn Patient |  |  |  |  | If the patient is a newborn, send a cancel admit (A11) message. Null (“”) out all of the data in the message except the data in the PID (Patient Identification) segment. |

## 4.3 Sample Messages

***Inbound* from Soarian:**

MSH|^~\&|SOARF|SFB|||201808010859||ADT^A04|f3c76895-0089-42cc-b979-4589e95eabb3|P|2.7||1

EVN|A04|201808010859||CI|b094070|201808010856|6748

PID|1|810068888^^^900000^PN|7000058157^^^BCHS^MR||CANNADAY^HAROLD^^^^^L^^^20180726||19450813|M||White|1417 MOONLIGHT DRIVE^^Camden^NJ^08102^USA^M^^Camden^^^20180726||^PRN^PH^^1^727^4558787~^ORN^CP^^0^727^4558787^^Pref~^NET^^linda.green@baycare.org||EN|S||6000088586^^^BCHS^VCD^^20180801||||Non HIS or LAT||N|0|||||N|N

PD1||||||||N

PV1|1|O||Elective|||062881^Toonkel^Leonard^Manuel^^PRN^1356315147^NPI^17332^PRDOC^SFB|||CAT|||N|RP|||062881^Toonkel^Leonard^Manuel^^PRN^1356315147^NPI^17332^PRDOC^SFB|O|5400000916^^^504^VN^^20180801|HMO Mcare||||||||||||||||AHR|||6748|||||201808010856|||||||V

PV2|||^TEST||||~~~~false||||||||N||||||N||SF Ancillary^L^512^^^900000^XX~^^1548205883^^^900004^NPI|Attended|||||||N|||||N

ROL||UC|PP|056929^John^Elizabeth^Agnes^^PRN^1467557207^NPI|201807261422||||Phys|||^WPN^PH^^0^813^6028841~^ORN^FX^^0^813^6028858

ROL||AD|AT|062881^Toonkel^Leonard^Manuel^^^MD^^183^L^^^PRN^^^^20180606~8204^^^^^^^^900000^^^^DN~ME29156^^^^^^^^195^^^^LN~1356315147^^^^^^^^900004^^^^NPI~17332^^^^^^^^769^^^^PRN~17332^^^^^^^^777^^^^PRN~17332^^^^^^^^745^^^^PRN~17332^^^^^^^^779^^^^PRN~17332^^^^^^^^2127^^^^PRN~17332^^^^^^^^781^^^^PRN~17332^^^^^^^^748^^^^PRN~17332^^^^^^^^771^^^^PRN~17332^^^^^^^^783^^^^PRN~17332^^^^^^^^772^^^^PRN~17332^^^^^^^^737^^^^PRN~17332^^^^^^^^684^^^^PRN~17332^^^^^^^^1316^^^^PRN~17332^^^^^^^^775^^^^PRN~17332^^^^^^^^2077^^^^PRN~17332^^^^^^^^581^^^^PRN~17332^^^^^^^^1505^^^^PRN~17332^^^^^^^^757^^^^PRN~17332^^^^^^^^2078^^^^PRN~17332^^^^^^^^1325^^^^PRN~17332^^^^^^^^2076^^^^PRN~217795^^^^^^^^142^^^^LN~F0786^^^^^^^^152^^^^LN~17332^^^^^^^^2075^^^^PRN~72120^^^^^^^^173^^^^HPGLMK~N^^^^^^^^141157^^^^PRN|201808010856||||Phys|||^WPN^PH^^0^727^4627220~^ORN^FX^^0^727^4618051

ROL||AD|AD|062881^Toonkel^Leonard^Manuel^^^MD^^183^L^^^PRN^^^^20180606~8204^^^^^^^^900000^^^^DN~ME29156^^^^^^^^195^^^^LN~1356315147^^^^^^^^900004^^^^NPI~17332^^^^^^^^769^^^^PRN~17332^^^^^^^^777^^^^PRN~17332^^^^^^^^745^^^^PRN~17332^^^^^^^^779^^^^PRN~17332^^^^^^^^2127^^^^PRN~17332^^^^^^^^781^^^^PRN~17332^^^^^^^^748^^^^PRN~17332^^^^^^^^771^^^^PRN~17332^^^^^^^^783^^^^PRN~17332^^^^^^^^772^^^^PRN~17332^^^^^^^^737^^^^PRN~17332^^^^^^^^684^^^^PRN~17332^^^^^^^^1316^^^^PRN~17332^^^^^^^^775^^^^PRN~17332^^^^^^^^2077^^^^PRN~17332^^^^^^^^581^^^^PRN~17332^^^^^^^^1505^^^^PRN~17332^^^^^^^^757^^^^PRN~17332^^^^^^^^2078^^^^PRN~17332^^^^^^^^1325^^^^PRN~17332^^^^^^^^2076^^^^PRN~217795^^^^^^^^142^^^^LN~F0786^^^^^^^^152^^^^LN~17332^^^^^^^^2075^^^^PRN~72120^^^^^^^^173^^^^HPGLMK~N^^^^^^^^141157^^^^PRN|201808010856||||Phys|||^WPN^PH^^0^727^4627220~^ORN^FX^^0^727^4618051

OBX|1|CE|AdditionalData1^^LSFUSERDATAE||N||||||R

OBX|2|NM|9272-6^Apgar 1^LN||0

OBX|3|NM|9274-2^Apgar 5^LN||0

OBX|4|CE|1ESTATE^^LSFUSERDATAP||N||||||R

GT1|1|7000058157^^^504^MR^^20180726~810068888^^^900000^PN^^20180726~6011854^^^2198^PN^^20180731|CANNADAY^HAROLD^^^^^L^^^20180726||1417 MOONLIGHT DRIVE^^Camden^NJ^08102^USA^M^^Camden^^^20180726|^PRN^PH^^1^727^4558787~^ORN^CP^^0^727^4558787^^Pref~^NET^^linda.green@baycare.org||19450813|M|P|6||||||||||||||N|||||S||||||EN||||||||Non HIS or LAT|||||||||||White

IN1|1|1490^MCR UHC|439^^^900000^XX^^20120228~411289245^^^900001^TX^^20140328~NLU00010^^^184^CRI^^20140328|United HealthCare^L^439^^^900000^XX|PO BOX 31362^^SALT LAKE CITY^UT^841310362^USA^M^^^^POLCS-M~PO Box 101760^^Atlanta^GA^303921760^USA^M^^^^HRefund|^^^^^^^POLCS-M~United HealthCare^^^^^^^HRefund|^WPN^PH^^0^877^8423210^^POLCS-M||MCR UHC||||||Health|CANNADAY^HAROLD^^^^^L^^^20180726|6|19450813|1417 MOONLIGHT DRIVE^^Camden^NJ^08102^USA^M^^Camden|||1|||||||20180801|||||||875427148A|||||||M||true||||7000058157^^^504^MR^^20180726~810068888^^^900000^PN^^20180726~6011854^^^2198^PN^^20180731

IN2|||||||||||||||||||||||||87726|NOCD||||||||EN||||||||Non HIS or LAT|S||||||||||||||||||||^PRN^PH^^1^727^4558787~^ORN^CP^^0^727^4558787^^Pref~^NET^^linda.green@baycare.org||||||||White|6

ZIN||||||||||||||||||||||||||||||||||||||||||||||||||||^^policyPlanName^policyPlanName^MCR UHC||||||1490^^^900000^HPI^20130613~Medicare HMO^^^183^NHPI^20140313~NLU10000^^^184^CRI^20141031

PDA||||||N|||N

ZPV|||||||||||||||||||||||||||||||||||||||||||||||||""|BCBCE2REV1012LK|||||||||||^^mostCurrEncTypeCd^mostCurrEncTypeCd^OP||||||||5400000916^^No SCD^504^ZAVN^^20180801||201808010856

ZID|7000058157^^^504^MR^^20180726~810068888^^^900000^PN^^20180726~6011854^^^2198^PN^^20180731

9/14/16: New phone # formatting PID 13 (Cloverleaf inbound from Soarian):

1. Cell Phone Preferred: ~^ORN^CP^^1^813^5555555^^Pref
2. Home Phone Preferred: ^PRN^PH^^1^727^7777777^^Pref~^ORN^CP^^1^727^5555555
3. Cell Phone Preferred with Work Phone: ~^ORN^CP^^1^727^5555555^^Pref~^WPN^PH^^1^727^2222222
4. No Preferred Indicated: ^PRN^PH^^1^727^7777777~^ORN^CP^^1^727^5555555

***Outbound* to Cerner:**

MSH|^~\&|SOARIAN|SOARIAN|HNAM|SFB|201808010859||ADT^A04|f3c76895-0089-42cc-b979-4589e95eabb3|P|2.6

EVN|A04|201808010859|||b094070

PID|1|810068888^^^^BCCPI|810068888^^^^CPI~7000058157^^^^BCMRN||CANNADAY^HAROLD||19450813|M||White|1417 MOONLIGHT DRIVE^""^Camden^NJ^08102^^HOME~linda.green@baycare.org^^^^^^EMAIL||(727)455-8787^^PRN~(727)455-8787^^ORN~(727)455-8787^^PREF~^NET^EMAIL^linda.green@baycare.org||EN|S||6000088586^^^^BCFN||||Non HIS or LAT

NTE|1|2|Patient Employer:

NTE|2|2|Patient Employer Number:

NTE|3|3|Guarantor Employer:

PV1|1|O|CATFH^^^SFB^^^SFB|Elective|||MS062881^Toonkel^Leonard^Manuel|||CAT||||RP||N|MS062881^Toonkel^Leonard^Manuel|O|5400000916|Medicare HMO||||||||||||||||AHR|||CATFH|||||201808010856||||||||MS056929^John^Elizabeth^Agnes^^^^^^^^^PCPE

PV2|||^TEST|||||||||||||||||||CONFID

GT1|1||CANNADAY^HAROLD||1417 MOONLIGHT DRIVE^^Camden^NJ^08102|(727)455-8787|||||6

IN1|1|1490|439|United HealthCare|PO BOX 31362^^SALT LAKE CITY^UT^841310362^^HPADR||(877)842-3210^HPPH~(877)842-3210^HPPH2||MCR UHC||||||Health|CANNADAY^HAROLD|6|19450813|1417 MOONLIGHT DRIVE^^Camden^NJ^08102|||1||||||||||||||875427148A|||||||M||true

IN2|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||(727)455-8787

9/14/16: New phone # formatting PID 13 (Cloverleaf outbound to Cerner):

1. Cell Phone Preferred: (813)555-5555^^ORN~(813)555-5555^^PREF
2. Home Phone Preferred: (727)777-7777^^PRN~(727)555-5555^^ORN~(727)777-7777^^PREF
3. Cell Phone Preferred with Work Phone: (727)555-5555^^ORN~(727)555-5555^^PREF
4. No Preferred Indicated: (727)777-7777^^PRN~(727)555-5555^^ORN555

**Insurance Authorization *Outbound* to Cerner**

MSH|^~\@|SOARIAN|BAYCARE|HNAM|SJW|201510081010||ADT^A08|c7f5b880-63a7-4dde-8332-41ff17a36275|P|2.6

EVN|A08|201510081010|||b097211

PID|1|300146043^^^^BCCPI|300146043^^^^CPI~2104716333^^^^BCMRN||WINTER^SUMMER||19700717|F||White|3001 MLK JR BLVD^^Tampa^FL^33607||(813)243-7042||ZH|S|Adventist|6000008624^^^^BCFN||||Unknown

NTE|1|2|Patient Employer:

NTE|2|2|Patient Employer Number:

NTE|3|3|Guarantor Employer:

PV1|1|I|W2E^W203^02^SJW^^^SJW|Elective|||MS001309^Amoroso^Michele^Kristine|||SUR||||RP||N|MS001309^Amoroso^Michele^Kristine|I|5100129128|Uninsured|||||||||||||||||||SURWH|||||201510080948||||||||MS004894^Abbott^Norman^S^^^^^^^^^PCPE

PV2||Acute|^TAH

GT1|1||WINTER^SUMMER||3001 MLK JR BLVD^^Tampa^FL^33607|(813)243-7042|||||6

IN1|1|108|433|Uninsured|||||Uninsured|||||**CLIN REQ**|Health|WINTER^SUMMER|6|19700717|3001 MLK JR BLVD^^Tampa^FL^33607|||1||||||||||||||NONE|||||||F||false

IN2|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||(813)243-7042

MSH|^~\@|SOARIAN|BAYCARE|HNAM|SJW|201510091542||ADT^A08|9ac7f07a-75ae-4e89-9745-5bd2d1ee88a3|P|2.6

EVN|A08|201510091542|||b097211

PID|1|300146043^^^^BCCPI|300146043^^^^CPI~2104716333^^^^BCMRN||WINTER^SUMMER||19700717|F||White|3001 MLK JR BLVD^^Tampa^FL^33607||(813)243-7042||ZH|S|Adventist|6000008624^^^^BCFN||||Unknown

NTE|1|2|Patient Employer:

NTE|2|2|Patient Employer Number:

NTE|3|3|Guarantor Employer:

PV1|1|I|W2E^W203^02^SJW^^^SJW|Elective|||MS001309^Amoroso^Michele^Kristine|||SUR||||RP||N|MS001309^Amoroso^Michele^Kristine|I|5100129128|Uninsured|||||||||||||||||||SURWH|||||201510080948||||||||MS004894^Abbott^Norman^S^^^^^^^^^PCPE

PV2||Acute|^TAH

GT1|1||WINTER^SUMMER||3001 MLK JR BLVD^^Tampa^FL^33607|(813)243-7042|||||6

IN1|1|108|433|Uninsured|||||Uninsured|||||**CLIN SENT**|Health|WINTER^SUMMER|6|19700717|3001 MLK JR BLVD^^Tampa^FL^33607|||1||||||||||||||NONE|||||||F||false

IN2|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||(813)243-7042

MSH|^~\@|SOARIAN|BAYCARE|HNAM|SJW|201510121312||ADT^A08|f7522403-5c00-4866-bdba-4a264d08433d|P|2.6

EVN|A08|201510121312|||b097211

PID|1|300146043^^^^BCCPI|300146043^^^^CPI~2104716333^^^^BCMRN||WINTER^SUMMER||19700717|F||White|3001 MLK JR BLVD^^Tampa^FL^33607||(813)243-7042||ZH|S|Adventist|6000008624^^^^BCFN||||Unknown

NTE|1|2|Patient Employer:

NTE|2|2|Patient Employer Number:

NTE|3|3|Guarantor Employer:

PV1|1|I|W2E^W203^02^SJW^^^SJW|Elective|||MS001309^Amoroso^Michele^Kristine|||SUR||||RP||N|MS001309^Amoroso^Michele^Kristine|I|5100129128|Uninsured|||||||||||||||||||SURWH|||||201510080948||||||||MS004894^Abbott^Norman^S^^^^^^^^^PCPE

PV2||Acute|^TAH

GT1|1||WINTER^SUMMER||3001 MLK JR BLVD^^Tampa^FL^33607|(813)243-7042|||||6

IN1|1|108|433|Uninsured|||||Uninsured|||||**0123456789**|Health|WINTER^SUMMER|6|19700717|3001 MLK JR BLVD^^Tampa^FL^33607|||1||||||||||||||NONE|||||||F||false

IN2|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||(813)243-7042

***P30* Behavioral Health Messages**

***Note:* See ‘Data Transform Section’ for PV1-39, the value XX is a default when there is *no* match in Cloverleaf table**

MSH|^~\&|SOARIAN|BAYCARE|HNAM|ISU|201706290944||ADT^A01|1387679e-5382-4404-9ffd-7312f8cb8afc|P|2.6

EVN|A01|201706290944|||vxw43156

PID|1|301380146^^^^BCCPI|301380146^^^^CPI~2106474506^^^^BCMRN||COWNE^VIRGINIA||19630915|F||White|11289 TUSCANY AVE^""^Spring Hill^FL^34608||(352)683-0188^^PRN||EN|D|Unknown|1104600657^^^^BCFN|226131491|||Non HIS or LAT

NTE|1|2|Patient Employer:

NTE|2|2|Patient Employer Number:

NTE|3|3|Guarantor Employer:

PV1|1|I|ISU^0132^01^ISU^^^ISU|Urgent|||MS061218^Midathala^Gnaneswara^V|||ISD||||RP||N|MS061218^Midathala^Gnaneswara^V|**XX**|5106238575|PPO|||||||||||||||||||**ISDBU**|||||201706270856||||||||MS999995^Unassigned^PCP Unable to obtain^^^^^^^^^^PCPE

PV2||BH|^UNSPECIFIED ALCOHOL RELATED DISORDER RO|||||||||||||||||||CONFID

GT1|1||COWNE^VIRGINIA||11289 TUSCANY AVE^""^Spring Hill^FL^34608|(352)683-0188|||||6|226131491

IN1|1|1660|413|Blue Cross|||||BC Blue Select VMA||||||Health|COWNE^VIRGINIA|6|19630915|11289 TUSCANY AVE^""^Spring Hill^FL^34608|||1||||||||||||||226131491|||||||F||false

IN2||226131491|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||(352)683-0188

MSH|^~\&|SOARIAN|BAYCARE|HNAM|ISU|201706291013||ADT^A08|4e466e5e-e444-4fd2-af39-93268f87e413|P|2.6

EVN|A08|201706291013|||amd52717

PID|1|301380146^^^^BCCPI|301380146^^^^CPI~2106474506^^^^BCMRN||COWNE^VIRGINIA||19630915|F||White|11289 TUSCANY AVE^^Spring Hill^FL^34608||(352)683-0188^^PRN||EN|D|Unknown|1104600657^^^^BCFN|226131491|||Non HIS or LAT

NTE|1|2|Patient Employer:

NTE|2|2|Patient Employer Number:

NTE|3|3|Guarantor Employer:

PV1|1|I|ISU^0132^01^ISU^^^ISU|Urgent|||MS061218^Midathala^Gnaneswara^V|||ISD||||RP||N|MS061218^Midathala^Gnaneswara^V|**XX**|5106238575|PPO|||||||||||||||||||**ISDBU**|||||201706270856||||||||MS999995^Unassigned^PCP Unable to obtain^^^^^^^^^^PCPE

PV2||BH|^UNSPECIFIED ALCOHOL RELATED DISORDER RO

GT1|1||COWNE^VIRGINIA||11289 TUSCANY AVE^^Spring Hill^FL^34608|(352)683-0188|||||6|226131491

IN1|1|1660|413|Blue Cross||||99999|BC Blue Select VMA||||||Health|COWNE^VIRGINIA|6|19630915|11289 TUSCANY AVE^^Spring Hill^FL^34608|||1||||||||||||||VMAH16734818|||||||F||false

IN2||226131491|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||(352)683-0188

***Note:* See ‘Data Transform Section’ for PV1-39, this was resolved when the Soarian team provided ISDBU value for the Cloverleaf Table**

MSH|^~\&|SOARIAN|BAYCARE|HNAM|ISU|201706291716||ADT^A08|f9190593-b004-40a5-95e7-8f8e003533f6|P|2.6

EVN|A08|201706291716|||vxw43156

PID|1|301380146^^^^BCCPI|301380146^^^^CPI~2106474506^^^^BCMRN||COWNE^VIRGINIA||19630915|F||White|11289 TUSCANY AVE^^Spring Hill^FL^34608||(352)683-0188^^PRN||EN|D|Unknown|1104600657^^^^BCFN|226131491|||Non HIS or LAT

NTE|1|2|Patient Employer: UNEMPLOYED

NTE|2|2|Patient Employer Number:

NTE|3|3|Guarantor Employer: UNEMPLOYED

PV1|1|I|ISU^0132^01^ISU^^^ISU|Urgent|||MS061218^Midathala^Gnaneswara^V|||ISD||||RP||N|MS061218^Midathala^Gnaneswara^V|**I**|5106238575|PPO|||||||||||||||||||**ISDBU**|||||201706270856||||||||MS999995^Unassigned^PCP Unable to obtain^^^^^^^^^^PCPE

PV2||BH|^UNSPECIFIED ALCOHOL RELATED DISORDER RO

GT1|1||COWNE^VIRGINIA||11289 TUSCANY AVE^^Spring Hill^FL^34608|(352)683-0188|||||6|226131491

IN1|1|1660|413|Blue Cross||||99999|BC Blue Select VMA||||||Health|COWNE^VIRGINIA|6|19630915|11289 TUSCANY AVE^^Spring Hill^FL^34608|||1||||||||||||||VMAH16734818|||||||F||false

IN2||226131491|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||(352)683-0188

***Note:* The PV1-39 value was validated and accepted by Core because it’s *not* used in this workflow**

MSH|^~\&|SOARIAN|BAYCARE|HNAM|SIP|201706291514||ADT^A08|0f61b521-92f7-4108-8b7f-95912b329d2a|P|2.6

EVN|A08|201706291514|||lxt48426

PID|1|301301545^^^^BCCPI|301301545^^^^CPI~2106375663^^^^BCMRN||SALTERS^ALYIA||20000928|F||NR|4322 4TH AVE SOUTH^^Saint Petersburg^FL^33711||||EN|S|Unknown|1104603582^^^^BCFN|591975987|||Non HIS or LAT

NTE|1|2|Patient Employer:

NTE|2|2|Patient Employer Number:

NTE|3|3|Guarantor Employer:

NK1|1|JOHNSON^SANDRA|F||(727)520-4507||Emergency Contact 1

PV1|1|I|SIPP^S173^01^SIP^^^SIP|Elective|||MS062673^Trice^Julia^Brown|||SIP||||RP||N|MS062673^Trice^Julia^Brown|I|5106242479|Medicaid HMO|||||||||||||||||||SIPXX|||||201706291415||||||||MS555555^No^PCP per pt^^^^^^^^^^PCPE

PV2||BH|^DISRUPTIVE MOOD DYSREGULATION DISORDERHHHHH

GT1|1||JOHNSON^SANDRA||4322 4TH AVE SOUTH^^Saint Petersburg^FL^33711||||||3

IN1|1|1573|2066|Medicaid HMO Other|||||BH MCD Cenpatico||||||Health|SALTERS^ALYIA|6|20000928|4322 4TH AVE SOUTH^^Saint Petersburg^FL^33711|||1|||||||||||||||||||||F||false

IN2||591975987

MSH|^~\&|SOARIAN|BAYCARE|HNAM|CRC|201706291457||ADT^A01|eefd4582-54dc-430d-8bb1-b2ef320ad170|P|2.6

EVN|A01|201706291457|||pdc50934

PID|1|102795822^^^^BCCPI|102795822^^^^CPI~2105708667^^^^BCMRN||CUTLER^MARISA^C||19831017|F||White|5717 KNEELAND LN^^Tampa^FL^33625^^HOME~none^^^^^^EMAIL||(727)841-4475^^PRN~(813)952-8037^^ORN~(727)841-4475^^PREF||EN|M|Christian|1104603966^^^^BCFN|589366209|||HIS

NTE|1|2|Patient Employer: UNEMPLOYED

NTE|2|2|Patient Employer Number:

NTE|3|3|Guarantor Employer: UNEMPLOYED

NK1|1|CUTLER^CHRIS|W||(813)458-7888||Emergency Contact 1

PV1|1|I|CRC^0020^03^CRC^^^CRC|Elective|||MS027793^Cannon^Fay^Alexander|||CRC||||RP||N|MS027793^Cannon^Fay^Alexander|I|5106243109|Government|||||||||||||||||||CRCXX|||||201706291441||||||||MS555555^No^PCP per pt^^^^^^^^^^PCPE

PV2||BH|^MENTAL HEALTH|||||||||||||||||||CONFID

OBX|1|CE|CIE||Y

GT1|1||CUTLER^MARISA^C||5717 KNEELAND LN^^Tampa^FL^33625|(727)841-4475|||||6|589366209

IN1|1|3334|123798|BH FL State Reporting|||(813)740-4811^EPR||Central Florida Behavioral Health Network CFBHN||||||Health|CUTLER^MARISA^C|6|19831017|5717 KNEELAND LN^^Tampa^FL^33625|||1||||||||||||||589366209|||||||F||false

IN2||589366209|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||(727)841-4475

***Note:* Patient consented OBX segment example**

OBX|1|CE|CIE||Y

# **5. Testing**

## 5.1. Unit Testing Scenarios

|  |  |
| --- | --- |
| **Scenario** | **Expected Result** |
| Unit test specific additions or changes |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## 5.2 Integrated Testing Scenarios

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

## 5.3 Testing Approvals

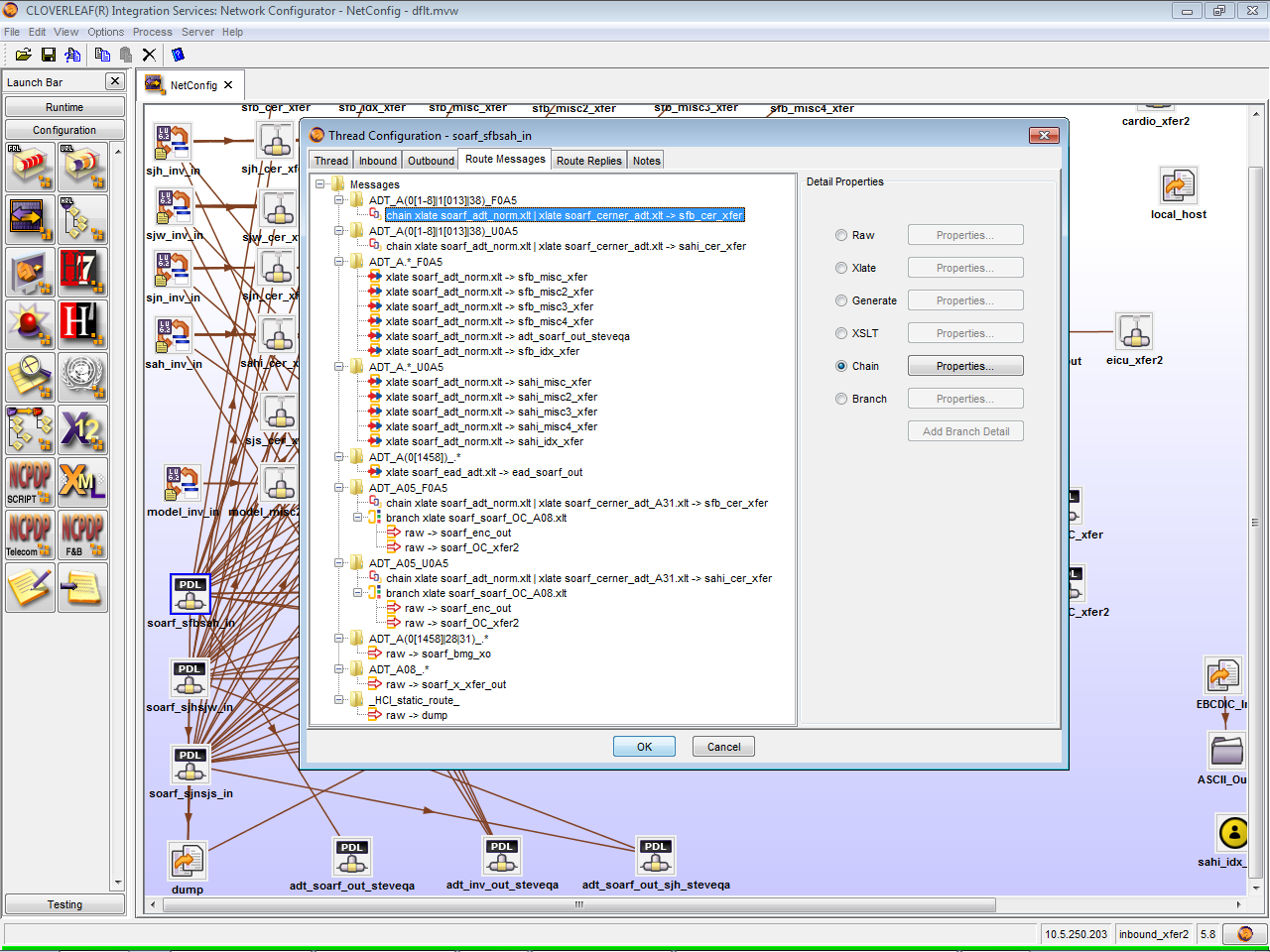
|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Phase** | **Date** | **Department** | **Team Member** |
|  |  |  |  |
|  |  |  |  |

## 5.4 Piloting

## 5.5 Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Phase** | **Date** | **Department** | **Team Member** |
|  |  |  |  |
|  |  |  |  |

# 6. Deployment / Implementation Model



# Appendix A: Risks and Concerns

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | | |  |  |  |  |
| **Number** | **Risk / Concern** | **Comment** | **Mitigation** | | |  |  |  |
| RC.2015.1.0 |  |  | |  | |  |  |  |
| RC.2015.2.0 |  |  | |  | |  |  |  |

# Appendix B: Issues List

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **<Project Name>** |  |  | | |  |  |  |  |
| **Number** | **Issue** | **Comment** | **Fix** | | |  |  |  |
| I.2015.1.0 |  |  | |  | |  |  |  |

* End of document