**Cerner ED doctor update to Soarian**

**Version 1**

**Prepared By: Rich Allison**

**Date: 10/14/2015**

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# **Document Control**

## Resources

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Email** |
| Cerner CCL team |  |  |
| Soarian Team |  |  |
|  |  |  |
|  |  |  |
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|  |  |  |

## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 10/16/2015 | Rich Allison | Originally Created |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

Update patient records in Soarian with ED doctors from Cerner.

## 1.2 Project Scope

Cerner to Soarian ED doctor (attending and admitting) updates for ED patients that were not discharged.

A CCL script extracts patient identifers, associated physician name and MS number and dates from Cerner and loads the records into a comma delimited VRL file.

This file is picked up and processed by Cloverleaf daily. Cloverleaf creates and sends A08 update messages to Soarian.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

### 1.3.2 Glossary

## 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).

Cerner 🡪

CCL Extract 🡪

pt\_ed\_phys\_updt file 🡪

/sites/ftp\_data\_in/cernerEDdocupdt 🡪

Cloverleaf 🡪

cerner\_ED\_doc\_updt (fileset-local) 🡪

cerner\_ED\_doc\_updt.xlt 🡪

A08 message 🡪

soarf\_enc\_x2\_out

# 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.2015.1.0 | Create pt\_ed\_phys\_updt comma delimited VRL file | CCL script extracts data from Cerner |
| FR.2015.1.1 | put file for Cloverleaf access | file put to /sites/ftp\_data\_in/cernerEDdocupdt |
| FR.2015.1.2 | Cloverleaf retrieve file | cerner\_ED\_doc\_updt fileset-local connection on inbound\_xfer2\_prod reads the file |
| FR.2015.1.3 | Create update messages for Soarian | Cloverleaf interface cerner\_ED\_doc\_updt.xlt formats VRL records into HL7 A08 messages |
| FR.2015.1.4 | Send messages to Soarian | Send messages on Soarian soarf\_enc\_x2\_out connection (port 10280) |
|  |  |  |
|  |  |  |

## 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

### 3.3.1 Inbound to the BayCare Cloverleaf from /sites/ftp\_data\_in/cernerEDdocupdt

* fileset-local flat file read

### 3.3.2 Outbound to Soarian

* TCP IP MLLP Encapsulated
* Port: 10280
* IP Address: 64.46.229.11 Production 64.46.231.206 Test

# 4. HL7 Messaging

## 4.1 Messaging Format

Inbound: VRL

Outbound: HL7

### 4.1.1 Segments

The segments utilized for this interface are:

VRL:

facility

CPI

ECD

last\_name

first\_name

MSnbr

add\_chng\_dttm

ED\_arrival\_dttm

HL7:

MSH

EVN

PID

[PV1]

### 4.1*.*2 Messaging Event Types

Below are the messages types necessary for this integration

|  |  |
| --- | --- |
| **Event Type** | **Description** |
| A08 | Update Patient Information |

### 4.1*.*3 Cloverleaf Configuration Files

Variants:

HL7 2.6/Soarian ADT\_A08

VRL:

cerner\_ED\_doc\_updt

Xlates:

cerner\_ED\_doc\_updt

Filters:

None

### 4.1.4 Cloverleaf Site Location

soarf\_outbound\_23

## 4.2 Data Transformation Requirements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
| Basic copy commands – see xlate |  |  |  |  |  |
| Attending and Admitting doctor numbers | PV1.7.0  PV1.17.0 | Y | string | 8 | Strip the MS off of the doctor number.  set drnbrin [lindex $xlateInVals 0]  set ms [string range $drnbrin 0 1]  if {[string equal $ms "MS"]} {  set xlateOutVals [list [string range $drnbrin 2 end]]  } else {  set xlateOutVals [list $drnbrin]  } |

## 4.3 Sample Messages

VRL:

WHH,300136388,1100097856,WHHITRTHREE,ERINPTSIX,MS061500,201504161001,201504150755

HL7:

MSH|^~\&|FIRSTNET|WHH|SOARF|BAYCARE|20151016150810||ADT^A08|20151016150810WHHITRTHREEMS061500|P|2.6

EVN|A08|20151016150810||||201504150755

PID|||300136388^^^900000^PN||WHHITRTHREE^ERINPTSIX|||||||||||||1100097856^^^504^VCD

PV1|1|O|||||061500^^^^^^^^183^^^^PRN||||||||||061500^^^^^^^^183^^^^PRN

# **5. Testing**

## 5.1. Unit Testing Scenarios

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

## 5.2 Integrated Testing Scenarios

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

## 5.3 Testing Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Phase** | **Date** | **Department** | **Team Member** |
| PH1.UNIT |  |  |  |
| PH1.INTEGRATED |  |  |  |

### 

## 5.4 Piloting

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

## 5.5 Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Phase** | **Date** | **Department** | **Team Member** |
| PH1.0 |  |  |  |
|  |  |  |  |
|  |  |  |  |

# 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.

# 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