**ADT\_Soarian\_WestCall Req**

**1.0**

**Prepared By: Rich Allison**

**Date: 5/14/2018**

[Document Control 3](#_Toc514326300)

[Resources: (include Project Team Members, Liaisons, Vendor Contacts, etc.) 3](#_Toc514326301)

[Project Distribution List 3](#_Toc514326302)

[Document Version Control 3](#_Toc514326303)

[1. Introduction 4](#_Toc514326304)

[1.1 Purpose 4](#_Toc514326305)

[1.2 Project Scope 4](#_Toc514326306)

[1.3 Terminology Standards 4](#_Toc514326307)

[1.3.1 Acronyms 4](#_Toc514326308)

[1.3.2 Glossary 4](#_Toc514326309)

[1.4 Document References 4](#_Toc514326310)

[2. Diagram 5](#_Toc514326311)

[3. Requirements 6](#_Toc514326312)

[3.1 Functional Requirements 6](#_Toc514326313)

[3.2 Non-Functional Requirements 6](#_Toc514326314)

[3.3 Messaging Protocols 7](#_Toc514326315)

[3.3.1 Inbound to the BayCare Cloverleaf 7](#_Toc514326316)

[3.3.2 Outbound to the BayCare Cloverleaf 7](#_Toc514326317)

[3.3.3 Inbound to the Vendor 7](#_Toc514326318)

[3.3.4 Outbound to the Vendor 7](#_Toc514326319)

[4. HL7 Messaging 8](#_Toc514326320)

[4.1 Messaging Format 8](#_Toc514326321)

[4.1.1 Segments 8](#_Toc514326322)

[4.1*.*2 Messaging Event Types 8](#_Toc514326323)

[4.1*.*3 Cloverleaf Configuration Files 9](#_Toc514326324)

[4.1.4 Cloverleaf Site Location 9](#_Toc514326325)

[4.2 Data Transformation Requirements 9](#_Toc514326326)

[4.3 Sample Message 10](#_Toc514326327)

[5. Alerts 11](#_Toc514326328)

[Appendix A: Risks and Concerns 11](#_Toc514326329)

[Appendix B: Issues List 12](#_Toc514326330)

# **Document Control**

## Resources: (include Project Team Members, Liaisons, Vendor Contacts, etc.)

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Email** |
| Rich Allison | BayCare Integration Developer | rich.allison@baycare.org |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 5/14/2018 | Rich Allison | Originally Created |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

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

## 1.2 Project Scope

Develop an interface for Soarian ADT messages to WestCall.

## 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).



# 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. | Soarian ADT interface to WestCall for MPH, MCS, MDU, SAH, SJH and SJW |

## 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

EVN

PID

PV1

*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** |
| A01 | Admit/visit notification |
| A02 | Transfer a Patient |
| A03 | Discharge/end visit |
| A04 | Register a patient |
| A06 | Change an outpatient to an inpatient |
| A07 | Change an inpatient to an outpatient |
| A08 | Update patient information |
| A10 | Patient arriving - tracking |
| A11 | Cancel admit/visit notification |
| A13 | Cancel discharge/end visit |

### 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 2.6/Soarian ADT\_A01

TCL Scripts:

None

Xlates:

soarf\_westcall\_adt.xlt

Tables:

None

### 4.1.4 Cloverleaf Site Location

soarf\_adt\_fac\_19\_p

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Notes** |
| --- | --- | --- | --- |
| MSH Segment |  | Y | PATHCOPY the MSH segment |
| Receiving Application | MSH.5 |  | Copy “WESTCALL” to MSH.5 |
| Processing ID | MSH.11 |  | COPY “P” to MSH.11 |
| EVN Segment |  | Y | PATHCOPY the EVN segment |
| Message Type | MSH.9  EVN.1 |  | IF MSH.9.1 eq A10  COPY A04 to MSH.9.1  COPY A04 to EVN.1 |
| PID Segment |  | Y | PATHCOPY the PID segment |
| PV1 Segment |  | Y | PATHCOPY the PV1 segment |
| Courtesy Code |  |  | COPY @null to PV1.22  … Had to null out this field per vendor's request. It was flagging pt's as private in the nurse call system and vendor could not change |

## 4.3 Sample Message

INBOUND:

MSH|^~\&|SOARF|MCS|||201804170912||ADT^A04|d95be112-c0e0-4ce3-81bd-741fe9869594|P|2.7||1

EVN|A04|201804170912||CI|b095427|201804170905|9017

PID|1|810014341^^^900000^PN|7000015387^^^BCHS^MR||mregression^testthree^^^^^L^^^20170718||19800310|M||Other|204 Corbett street^^Palm Harbor^FL^34685^USA^M^^Pinellas^^^20170718||^PRN^PH^^1^813^4566547||EN|M|Christian|6000037487^^^BCHS^VCD^^20180417||||Unknown||N|0|||||N|N||201804170905

PD1||||||||N

PV1|1|E||Emergency|||011948^Bailey^Christian^S^^PRN^1356321806^NPI^78112^PRDOC^MCS^^^^onecall^60A0|||ERD|||N|EO|||011948^Bailey^Christian^S^^PRN^1356321806^NPI^78112^PRDOC^MCS|E|5103808073^^^504^VN^^20180417||||||||||||||||||||9017|||||201804170905|||||||V

PV2|||^pain in arm||||~~~~false||||||0||N||||||N||MC ED^L^390^^^900000^XX~^^1346^^^179^HPOGLMK~^^1265419907^^^900004^NPI|Checked in|||||||N|||||N||W

ROL||UC|PP|009852^Held^Jeffrey^A^^PRN^1841243557^NPI^11016^PRDOC^MCS|201707181050||||Phys|||^WPN^PH^^0^727^7256526~^ORN^FX^^0^727^2664931

ROL||UC|AT|ME88869^Bailey^Christian^S^^^MD^^195^L^^^LN^^^^20161005~1356321806^^^^^^^^900004^^^^NPI~78112^^^^^^^^769^^^^PRN~01373^^^^^^^^777^^^^PRN~78112^^^^^^^^745^^^^PRN~01373^^^^^^^^779^^^^PRN~01373^^^^^^^^2127^^^^PRN~01373^^^^^^^^781^^^^PRN~78112^^^^^^^^748^^^^PRN~78112^^^^^^^^771^^^^PRN~01373^^^^^^^^783^^^^PRN~78112^^^^^^^^772^^^^PRN~78112^^^^^^^^737^^^^PRN~78112^^^^^^^^684^^^^PRN~78112^^^^^^^^1316^^^^PRN~1^^^^^^^^2134^^^^PRN~78112^^^^^^^^775^^^^PRN~01373^^^^^^^^2077^^^^PRN~78112^^^^^^^^581^^^^PRN~78112^^^^^^^^1505^^^^PRN~78112^^^^^^^^757^^^^PRN~01373^^^^^^^^2078^^^^PRN~011948^^^^^^^^183^^^^PRN~307^^^^^^^^900000^^^^DN~78112^^^^^^^^1325^^^^PRN~01373^^^^^^^^2076^^^^PRN~01373^^^^^^^^2075^^^^PRN~011948^^^^^^^^13280^^^^PRN~011948^^^^^^^^13281^^^^PRN|201804170905||||Phys|||^WPN^PH^^0^813^2646490~^ORN^FX^^0^813^4438143

ROL||UC|AD|ME88869^Bailey^Christian^S^^^MD^^195^L^^^LN^^^^20161005~1356321806^^^^^^^^900004^^^^NPI~78112^^^^^^^^769^^^^PRN~01373^^^^^^^^777^^^^PRN~78112^^^^^^^^745^^^^PRN~01373^^^^^^^^779^^^^PRN~01373^^^^^^^^2127^^^^PRN~01373^^^^^^^^781^^^^PRN~78112^^^^^^^^748^^^^PRN~78112^^^^^^^^771^^^^PRN~01373^^^^^^^^783^^^^PRN~78112^^^^^^^^772^^^^PRN~78112^^^^^^^^737^^^^PRN~78112^^^^^^^^684^^^^PRN~78112^^^^^^^^1316^^^^PRN~1^^^^^^^^2134^^^^PRN~78112^^^^^^^^775^^^^PRN~01373^^^^^^^^2077^^^^PRN~78112^^^^^^^^581^^^^PRN~78112^^^^^^^^1505^^^^PRN~78112^^^^^^^^757^^^^PRN~01373^^^^^^^^2078^^^^PRN~011948^^^^^^^^183^^^^PRN~307^^^^^^^^900000^^^^DN~78112^^^^^^^^1325^^^^PRN~01373^^^^^^^^2076^^^^PRN~01373^^^^^^^^2075^^^^PRN~011948^^^^^^^^13280^^^^PRN~011948^^^^^^^^13281^^^^PRN|201804170905||||Phys|||^WPN^PH^^0^813^2646490~^ORN^FX^^0^813^4438143

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

GT1|1|7000015387^^^504^MR^^20170718~810014341^^^900000^PN^^20170718|mregression^testthree^^^^^L^^^20170718||204 Corbett street^^Palm Harbor^FL^34685^USA^M^^Pinellas^^^20170718|^PRN^PH^^1^813^4566547||19800310|M|P|6||||||||||||||N|||||M||||||EN|||||Christian|||Unknown|||||||||||Other

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

ZPV|||||||||||||||||||||||||||||||||||||||||||||||||""|BCBCE1CLA1023LK|||||||||||^^mostCurrEncTypeCd^mostCurrEncTypeCd^OP||||||||5103808073^^No SCD^504^ZAVN^^20180417||201804170905

ZID|7000015387^^^504^MR^^20170718~810014341^^^900000^PN^^20170718

OUTBOUND:

MSH|^~\&|SOARF|MDU|WESTCALL||201802220939||ADT^A03|1ef3a7a8-c9ff-4572-9d1b-fc0d904d96da|P|2.7||1

EVN|A03|201802220939||CO|b095427|201802191200|9025

PID|1|810016046^^^900000^PN|7000016740^^^BCHS^MR||c30regression^Testthree^^^^^L^^^20171204||19821212|F||Asian|123 SJS Dr^^Dunedin^FL^34698^USA^M^^Pinellas^^^20171204||^PRN^PH^^1^555^5555555^^Pref||EN|M|Catholic|6000036824^^^BCHS^VCD^^20180219||||Unknown||N|0|||||N|N

PV1|1|O||Elective|||055144^Cimino^Patrick^Thomas^II^PRN^1962540997^NPI^05416^PRDOC^MDU|||END|||N|RP|||055144^Cimino^Patrick^Thomas^II^PRN^1962540997^NPI^05416^PRDOC^MDU|AH|5103807128^^^504^VN^^20180219|||||||||||||||||AHR|0||9025|||||201802190950|201802191200||||||V

# 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** |
|  |  |  |  |
| soarf\_adt\_fac\_19\_p | 24/7 | Primary: Medical Device Integration 727-467-4000, open a critical ticket with the Service Desk.  Secondary: IDeACOM 800-228-9331 | ADT (Admission, discharges and Transfers) from Soarian to WestCall (nurse call application) |

# 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