**RL Solutions ADT Interface Requirements**

**Version 1.1**

**Prepared By: Tiffany Bohall and Tom Fredrickson**

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# **Document Control**

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 3/31/2016 | Tiffany Bohall | Originally Created |
| V1.1 | 11/7/2018 | Tom Fredrickson | Updated for the new version. |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to provide the configurations defined for the HL7 ADT interface from Soarian to RL Solutions. The intended audience would encompass anyone who wishes to know more about the configurations and data mappings of RL Solutions.

## 1.2 Project Scope

Consolidation of the Risk ADT interface with the Feedback Monitor Pro (FM Pro) interface took place and a new upgraded application RL Solutions v.6 (or RL6) was born on July 15, 2014.

The move to the RL6 version provides the ability to better conduct activities for the improvement of patient safety, health care quality and patient experience. It allows for a single portal for reporting and tracking of both adverse events and customer feedback (complaints and compliments). It also provides the ability to create and send data files to our Patient Safety Organization, ECRI.

In October 2018 the software was upgraded from 6.6.2.1 to 6.7.1.29 see RFC-14763.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

**FM Pro:** Feedback Monitor Pro. Decommissioned application that use to receive ADT messages from Soarian. This was rolled into RL6 upgrade and within BayCare, there are historical references that still exist.

### 1.3.2 Glossary

**Risk:** Risk Management. Decommissioned application that use to receive ADT messages from Soarian. This was rolled into RL6 upgrade and within BayCare, there are historical references that still exist.

**PRISM:** AKA- RL Solutions, AKA –RL6.

## 1.4 Document References

Located on the Enterprise Integration Sharepoint site are HL7 specification documents:

EIT Site Documents

Active Applications and Systems

RL Solutions Risk

HL7 Specifications for All Non-RL6 Surveillance Implementations.pdf

# *2.* Diagram –N/A

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 equirements. 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.2016.3.31 |  | See 4.1*.*3 Cloverleaf Configuration Files, below. |

## 3.2 Non-Functional Requirements

Provide concise detail for the below non-functional requirements. The below requirements must be evaluated for every project.

|  |  |  |
| --- | --- | --- |
| **Project** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| NFR.2016.3.31 | Lawson CSV file | Lawson FTP’s a BayCare employee file of all team members employed by BayCare which includes team member number, name, title, etc. **This does NOT go through the interface engine.** |
| NFR.2016.3.31.1 | Cactus CSV file | Cactus FTP’s a BayCare credentialed physician file of the entire database for all facilities. **This does NOT go through the interface engine.** |

## 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 BayCare’s Cloverleaf –N/A

* Click here to enter text.

### 3.3.2 Outbound from BayCare’s Cloverleaf

* All Soarian, BMG, and BOI ADT are sent to a single outbound connection.
  + IP 10.44.110.53, port 4500

### 3.3.3 Inbound to the Vendor -N/A

* Click here to enter text.

### 3.3.4 Outbound from the Vendor –N/A

* Click here to enter text.

### 3.3.5 Inbound to BayCare’s Cerner –N/A

**Prod**

Port Number: Click here to enter text.

IP Address: Click here to enter text.

### 3.3.6 Outbound from BayCare’s Cerner –N/A

**Prod**

Port Number: Click here to enter text.

IP Address: Click here to enter text.

# 4. HL7 Messaging

## 4.1 Messaging Format

### For the complete HL7 messaging specifications please refer to the following document located here:

Sharepoint Location

----------------------------

EIT Site Documents

Active Applications and Systems

RL Solutions Risk

HL7 Specifications for All Non-RL6 Surveillance Implementations.pdf

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

EVN

PID

PV1

PV2

NK1

AL1

PD1

DG1

IN1

OBX

### 4.1*.*2 Messaging Event Types

Below are the messages types necessary for this integration

|  |  |
| --- | --- |
| **Event Type** | **Description** |
| A01 | Admit an inpatient |
| A02 | Transfer |
| A03 | Discharge |
| A04 | Arrive an outpatient |
| A05 | Pre-admit patient |
| A06 | Status transfer out to in |
| A07 | Status transfer in to out |
| A08 | Update person information |
| A28 | Add person information |
| A31 | Update person information |

### 4.1*.*3 Cloverleaf Configuration Files

**These are raw routes that use a TPS (Tcl Procedure Stack).**

**Site: soarf\_adt\_ent\_18**

1. tpsAdvHL7Filter:

Suppress any A08 update message that has a discharge date populated in PV1.45. This will prevent old patients from populating the database since they can only access the latest ADT encounter that updates the application. This filter also kills PSI messages.

1. tpsSoarfToRLSolutions:

This Tcl procedure makes a few modification to the messages, such as searching for and formatting the phone to the RL Solutions custom needs (Just the numbers). They also wanted a naked PID-18 field with just the number in it.

1. tpsHL7FilterSegment:

This procedure filters any unwanted segment down to the following “wanted” list:

{LIST {MSH EVN PID PV1 PV2 NK1 AL1 PD1 DG1 IN1 OBX}} {TYPE {keep}}

**Site: bmg\_1**

The BMG site is the same as the Enterprise site except that it uses tpsGEToRLSolutions.tcl instead of tpsSoarfToRLSolutions.tcl as GE Centricity Business has a different phone/email setup.

### 4.1.4 Cloverleaf Site Location

soarf\_adt\_ent\_18

bmg\_1

## 4.2 Data Transformation Requirements

### These are raw routes so please refer to 4.1*.*3 Cloverleaf Configuration Files

## 4.3 Sample Message

MSH|^~\&|SOARF|BRM|||201811070757||ADT^A08|e53482f1-e529-4635-96bc-2df2969ae6c0|P|2.7||1

EVN|A08|201811070757||RVE|lxm57363|201811070756|20874

PID|1|810070478^^^900000^PN|7000059203^^^BCHS^MR||MATNEYTEST^CRDTONE^^^^^L^^^20181102||19680708|F||White|2995 DREW ST^^Clearwater^FL^33759^USA^M^^Pinellas^^^20181102||7275191200||EN|S|Baptist|6000090698||||Non HIS or LAT||N|0|||||N|N||201811021013

PD1||||||||N

PV1|1|I|ACB^0218^01^BRM|Urgent|||075876^Paddu^Naveen^^^PRN^1891126140^NPI^075876^PRDOC^BRM|||MED|||N|RP|||075876^Paddu^Naveen^^^PRN^1891126140^NPI^075876^PRDOC^BRM|I|5400003110^^^504^VN^^20181107|Mcaid|||||||||||||||||||20874|||||201811010752|||||||V

PV2|||^test||||~~~~false||||||0||N||||||N||BR Inpatient^L^64842^^^900000^XX~^^1558734095^^^900004^NPI~^^BARTOW REGIONAL MEDICAL CENTER^^^439^NOAName|Checked in|||||||N|||||N||||Acute

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

IN1|1|3396^MCD Simply Hlthcre|130971^^^900000^XX^^20170825|Simply Healthcare^L^130971^^^900000^XX|PO BOX 21535^^Eagan^MN^55121^USA^M^^^^POLCS-M~9250 W Flager Street^Suite 60^Miami^FL^331743460^USA^M^^^^HRefund|^^^^^^^POLCS-M~Simply Health^^^^^^^HRefund|^WPN^PH^^0^800^8876888^^POLCS-M||MCD Simply Hlthcre||||||Health|MATNEYTEST^CRDTONE^^^^^L^^^20181102|6|19680708|2995 DREW ST^^Clearwater^FL^33759^USA^M^^Pinellas|||1|||||||20181107|||||||1258498944|||||||F||true||||7000059203^^^504^MR^^20181102~810070478^^^900000^PN^^20181102

# **5. Testing**

## 5.1. Unit Testing Scenarios –N/A

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

## 5.2 Integrated Testing Scenarios - N/A

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

## 5.3 Testing Approvals

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

### 

## 5.4 Piloting –N/A

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

Deployment was conducted via a big bang go live when all facilities were brought live at once in the new upgraded interface.

## 6.1 Alerts –N/A

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 –N/A

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** |  |  | | |  |  |  |  |
| **Number** | **Risk / Concern** | **Comment** | **Mitigation** | | |  |  |  |
| RC.2013.1.0 |  |  | |  | |  |  |  |

# Appendix B: Issues List –N/A

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