**PSI ADT Requirements**

**Version 1.3**

**Prepared By: Tiffany Bohall**

**Date: 9/14/2018**

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# **Document Control**

## Resources

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 10/6/2015 | Tiffany Bohall | Originally Created |
| V1.1 | 2/9/2016 | Art Schwartz | IP updated |
| V1.2 | 5/16/17 | Lois Whitley | Updated CL site and connections; updated drawing |
| V1.3 | 9/14/18 | Tiffany Bohall | Updated based on recent upgrade |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

This document outlines the changes required to accommodate outbound PSI messages from Soarian for the Hospital and BayCare Outpatient Imaging locations. All gaps will be identified and mitigated as well as any non-functional requirements needed to support the solution post implementation.

## 1.2 Project Scope

The integration that is necessary for the Biometric Patient Secure Identity requires demographic data is sent to the PSI database, from Soarian. Once the patient arrives for services, they will place their right hand on the palm vein scanner and if previously scanned, their demographic data will appear within Soarian. If they have never had their palm scanned, they will be added as new to the Soarian database and their scan will be stored for future reference.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

PSI: Palm Secure Identity

### 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

List all documents or Web addresses to which this IDBB refers; provide enough information so that the reader can access a copy of each reference. Include the title, author, version number, date, and source or location.

# 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** |
| FR.2015.10.5 | Kiosk | Kiosk is a standalone self-check-in podium that is used in conjunction with PSI. Patients who have previously been to BayCare can use PSI to scan and retrieve their scheduled encounters on each Kiosk machine. Then they can check themselves in, update certain demographic details, etc. Kiosk requires a separate inbound ADT interface whose requirements can be found in the Kiosk\_InterfaceRequirements.docx. |

## 3.2 Non-Functional Requirements –N/A

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. Please see the reference document located on the Integration SharePoint server: <insert link to document here>

### 3.3.1 Outbound from BayCare’s Cloverleaf

Test: PSI BOI connection

Port Number: 9115

IP Address: 10.44.110.223

Test: PSI SOARF connection

Port Number: 8115

IP Address: 10.44.110.223

Prod: PSI BOI connection

Port Number: 9116

IP Address: 10.44.110.237

Prod: PSI SOARF connection

Port Number: 8116

IP Address: 10.44.110.237

### 3.3.2 Inbound to BayCare’s Cloverleaf – Not Applicable

### 3.3.3 Inbound to the Vendor –Not Applicable

### 3.3.4 Outbound to the Vendor –Not Applicable

### 3.3.5 Inbound to the BayCare Cerner -Not Applicable

### 3.3.6 Outbound to the BayCare Cerner -Not Applicable

# 4. HL7 Messaging

## 4.1 Messaging Format

HL7 2.6/Soarian ADT\_A01

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

[EVN]

PID

*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 (outbound) for the BOI integration

|  |  |
| --- | --- |
| **Event Type** | **Description** |
| A04 | Outpatient arrival |
| A05 | Preadmit |
| A08 | Update patient information |
| A40 | Merge persons |

Below are the messages types (outbound) for the SOARF integration

|  |  |
| --- | --- |
| **Event Type** | **Description** |
| A01 | Inpatient arrival |
| A04 | Outpatient arrival |
| A05 | Preadmit |
| A08 | Update patient information |
| A31 | Update person information |

### 4.1*.*3 Cloverleaf Configuration Files

Outbound BOI: adt\_psi\_out\_boi

Outbound Soarf: adt\_psi\_out

### 4.1.4 Cloverleaf Site Location

Soarf\_adt\_ent\_18

## 4.2 Data Transformation Requirements

**BOI transformations**

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| Message Header | MSH | Y | varies | varies | Pathcopy the entire segment |
| Event Type Code | EVN.1 | Y | ID | 3 | Copy |
| Recorded Date/Time | EVN.2 | N | DTM | 24 | Copy |
| Patient ID Number (CPI) | PID.2.0 | Y | CX | 50 | Copy |
| Patient identifier check | PID.2.1 | Y | CX | 50 | Hard coding “CPI” |
| Patient ID Number (MRN) | PID. 3 | N | CX | 50 | Copy |
| Patient identifier check digit | PID.3.1 | N | CX | 50 | Hard coding “MRN” |
| Patient Name | PID.5 | Y | XPN | 250 | Copy |
| Patient date of birth | PID.7 | Y | DTM | 24 | Copy |
| Patient sex | PID.8 | Y | IS | 1 | Copy |
| Patient Address | PID.11 | N | XAD | 250 | Copy |
| Patient Account Number | PID.18 | Y | CX | 250 | Copy |
| Social Security Number | PID.19 | Y | ST | 16 | Copy |

**SOARF transformations**

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| Message Header | MSH | Y | varies | varies | Pathcopy the entire segment |
| Event Type Code | EVN.1 | Y | ID | 3 | Copy |
| Recorded Date/Time | EVN.2 | N | DTM | 24 | Copy |
| Patient ID Number (CPI) | PID.2.0 | Y | CX | 50 | Copy |
| Patient identifier check | PID.2.1 | Y | CX | 50 | Hard coding “CPI” |
| Patient ID Number (MRN) | PID. 3 | N | CX | 50 | Copy |
| Patient identifier check digit | PID.3.1 | N | CX | 50 | Hard coding “MRN” |
| Patient Name | PID.5 | Y | XPN | 250 | Copy |
| Patient date of birth | PID.7 | Y | DTM | 24 | Copy |
| Patient sex | PID.8 | Y | IS | 1 | Copy |
| Patient Address | PID.11 | N | XAD | 250 | Copy |
| Patient Account Number | PID.18 | Y | CX | 250 | Copy |
| Social Security Number | PID.19 | Y | ST | 16 | Copy |
| Next of Kin phone number | NK1.5 | N | XTN | 250 | Copy |
| Merge segment | MRG | N | XTN | 250 | Pathcopy the entire segment |

## 4.3 Sample Message

MSH|^~\&|SOARF|SJS|||201510051534||ADT^A01|89ba6027-cd3f-4cbb-b95c-1ad1fdc17a45|P|2.7||1

EVN|A01|201510051534

PID||300146025^CPI|2104716315^MRN||VANTAGE^SJS||19770701|M|||2254 MAIN ST^""^Oldsmar^FL^34677^USA^M^^Pinellas^^^20151005|||||||6000008567^PN

**To PSI BOI:**

MSH|^~\&|SOARF|BOI|||201510050847||ADT^A05|aa534987-8e1d-49dd-b03a-684f481e1905|P|2.7||1

EVN|A05|201510050847

PID||300136906^CPI^^900000^PN|2104708436^MRN^^BCHS^MR||FACE^NOTPREGNANT^^^^^L^^^20150428||19851222|F|||12256 APPLE DRIVE^^Clearwater^FL^33755^USA^M^^Pinellas^^^20150428|||||||6000008513^^^BCHS^VCD^^20151005

# **5. Testing –N/A**

## 

## 5.1. Unit Testing Scenarios

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

## 

## 5.2 Integrated Testing Scenarios

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

## 

# 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