**Soarian Financials to iHeal (Healogics)**

**ADT Interface**

**Version 1.0**

**Prepared By: Levy Lazarre**

**Date: 10/26/2015**

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# **Document Control**

## Resources

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 10/26/2015 | Levy Lazarre | Originally Created |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to provide a succinct description of the HL7 ADT interface from BayCare Soarian Financials to Healogics iHeal. It is intended to be a guide to the different message types, segments, and fields present in the interface. It should be used by integration, application, or system analysts who need to be familiar with the interface.

## 1.2 Project Scope

The transportation of HL7 ADT transactions from Soarian Financials to Healogics HL7 interface engine via a standard MLLP connection as **ADT\_A..** messages.

The goal of the Healogics HL7 interface is to collect patients’ demographic information for the purpose of mapping to a separate HL7 scheduling interface from Soarian Scheduling.

## 1.3 Terminology Standards

MLLP – Minimum Lower Layer Protocol. A standard protocol built on top of TCP/IP and used to frame HL7 messages.

### 1.3.1 Acronyms

**iHeal (or i-heal)**. Healogics wound care specific Electronic Medical Records (EMR) platform used to document all aspects of wound care treatment (scheduling, clinical evaluation, progress notes, treatment plans…)

### 1.3.2 Glossary

## 1.4 Document References

**Healogics ADT Interface Specs:**

iHeal ADT Interface Documentation\_1.4.pdf

# 2. Diagram

# 3. Requirements

## 3.1 Functional Requirements

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| FR.2015.1.0 | Send only wound care patients to iHeal | Only patients registered with the hospital service of “WHC” should be sent to iHeal. The filter must be implemented on the customer side of the interface. |
| FR.2015.2.0 | Reformat phone numbers | In iHeal, there is no distinction between Home, Business or Cell Phone numbers. iHeal only uses two phone numbers, that they call Phone 1 and Phone 2. Format like (727)123-4567 |
| FR.2015.3.0 | Phone numbers locations. | For the purpose of this implementation, send Home and Work phone numbers, and email address in PID.13; send Cell phone number in PID.14. |
| FR.2015.4.0 | Reformat SSN | Remove all dashes from the SSN. Format like 999999999. |
| FR.2015.5.0 | Physicians locations in HL7 | Per vendor request, send Attending Physician in PV1.7, Referring Physician in PV1.8, and Primary Care Physician in PV1.9. |
| FR.2015.6.0 | Send only IN1 segments | iHeal will only process selected information in the IN1 segments; IN2 is ignored. |

## 3.2 Non-Functional Requirements

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| NFR.2015.1.0 | Translation Tables | Translation for fields like race, ethnicity, language, religion, etc. is done on the vendor side. Acceptable values spreadsheet from Soarian must be provided to the vendor. |
| NFR.2015.1.0 | Merges | For the purpose of efficiency and accuracy, it has been decided not to send merge messages to iHeal but to establish a workflow process by which merges will be performed in Cerner and Soarian first, then manually in iHeal by Healogics Technical Support. |

## 3.3 Messaging Protocols

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

### Inbound to the BayCare Cloverleaf

* No inbound since this is a one-way outbound interface from Cloverleaf to Healogics

### 3.3.2 Outbound to the BayCare Cloverleaf

### 3.3.3 Inbound to the Vendor

### 3.3.4 Outbound to the Vendor (Via VPN)

* TCP/IP MLLP
* TEST: IP 206.210.91.170 Port 9892
* PROD: IP 206.210.91.170 Port 9891

### 3.3.5 Inbound to the BayCare Cerner

### 3.3.6 Outbound to the BayCare Cerner

# 4. HL7 Messaging

## 4.1 Messaging Format

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

EVN

PID

PD1

NK1

PV1

GT1

[{IN1}]

**No diagnosis information is passed to iHeal.**

*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** |
| ADT^A01 | Admit a Patient |
| ADT^A03 | Discharge a Patient |
| ADT^A04 | Register a Patient |
| ADT^A05 | Pre-Admit a Patient |
| ADT^A06 | Transfer an Outpatient to Inpatient |
| ADT^A07 | Transfer an Inpatient to Outpatient |
| ADT^A08 | Update Patient Information |
| ADT^A11 | Cancel Admit |
| ADT^A13 | Cancel Discharge |

### 4.1*.*3 Cloverleaf Configuration Files

The following Cloverleaf configuration files were used:

Xlate: soarf\_healogics\_adt.xlt

Variants: HL7 2.6 Soarian

TCL filters: tpsAdvHL7Filter.tcl

### 4.1.4 Cloverleaf Site Location

TEST: soarf\_adt\_ent\_

PROD: soarf\_adt\_ent

## 4.2 Data Transformation Requirements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
|  | MSH:XX.XX |  |  |  |  |
|  |  |  |  |  |  |

## 4.3 Sample Messages

MSH|^~\&|SOARF|SJH|IHeal||201508251549||ADT^A05|94728082-dd44-4acf-a68c-dc94f6867436|P|2.7||1

EVN|A05|201508251549

PID|1|300145135|2104715526||SJMAB^WCHBO||20000101|F||||||||||6000007073

PV1|1|O|SJH||||006716^Beattie^Martin^Chandler|||WHC||||||||||||||||||||||||||||||||||201508260900

GT1|1|300145135^^^900000^PN|SJMAB^WCHBO|||||20000101|||6

MSH|^~\&|SOARF|SFB|IHeal||201510191043||ADT^A08|35939f67-d663-4bbb-ba9a-c1f19a48dbe7|P|2.7||1

EVN|A08|201510191043

PID|1|300146141|2104716405||HEALOGIC^TEST2||19770606|M||Black|678 BOX ST^""^Port Richey^FL^34668^USA^M||(813)855-6963^P^PH||EN|||6000008752||||Non HIS or LAT

PV1|1|O|SFB||||006714^Butler^Stephen^Michael||555555^No^PCP per pt|WHC||||RP||||||||||||||||||||||||||||||201510191300

GT1|1|300146141^^^900000^PN|HEALOGIC^TEST2||678 BOX ST^""^Port Richey^FL^34668^USA^M^^Pasco^^^20151019|||19770606|||6

IN1|1|641^UHC Chc Chc Plus Atl||United HealthCare^L^439^^^900000^XX|PO BOX 740800^^ATLANTA^GA^30374^USA^M^^^^POLCS-M|^^^^^^^POLCS-M|^WPN^PH^^0^800^8420109^^POLCS-M|57896|||||||Health|HEALOGIC^TEST2^^^^^L^^^20151016|6|||||1||||||||||||||990678986

# **5. Testing**

## 5.1. Unit Testing Scenarios

|  |  |
| --- | --- |
| **Scenario** | **Expected Result** |
| Send at least one of each HL7 ADT message type from Soarian. | Message is processed correctly by iHeal and the data filed in the iHeal database. |
| Register several test patients with the “WHC” hospital service in Soarian. | All patients are passed to iHeal and the demographics are correct in the application. |
| Register some patients with a different hospital service in Soarian. | The ADTs are blocked by the Cloverleaf filter and the patients are not available in iHeal. |
|  |  |
|  |  |

## 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

## 5.5 Approvals

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

# 6. Deployment / Implementation Model

# Appendix A: Risks and Concerns

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** |  |  | | |  |  |  |  |
| **Number** | **Risk / Concern** | **Comment** | **Mitigation** | | |  |  |  |
| RC.2014.1.0 | Necessary merges not performed in a timely manner in Cerner and Soarian, due to the high volume of already pending merges. | Concern expressed by the users. | | Procedure will be put in place to signal those jHeal merges as high priority to CBO. | |  |  |  |

# 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.2014.1.0 |  |  | |  | |  |  |  |

* End of document