**Soarian to Lumeris ADT Requirements**

**Version 1.0**

**Prepared By: Tiffany Bohall**

**Date: 12/10/2018**

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 7/10/2018 | Tiffany Bohall | Originally Created |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to record the interface translations taking place between Soarian Financials and Lumeris. The intended audience includes anyone wishing to know more about such HL7 integration..

## 1.2 Project Scope

*From the project manager’s PDS document:* The scope of this project is to develop data feeds from EDW and HealtheIntent to create a spreadsheet for information to send to Lumeris on a weekly basis for information defined by Lumeris related to Lab Results, Biometrics / Vitals, Screening assessments, Immunizations, Diagnosis codes, Medications, and Social History. It will also include selected ADT events for the client population based on a new line of Medicare Advantage coverage which BayCare will offer to patient’s over the age of 65. This information will be used to populate and create useful output from the ADSP analytics and reporting capabilities.

This document defines only a single part of the system, which includes Soarian ADT outbound to Lumeris. The other component which integration has a part in is sending ADT from GE outbound to Lumeris and that HL7 translation can be found in the document titled ‘ADT\_Soarian\_Lumeris Req.docx.’

Componets that do not go through BayCare’s Integration include the files from Enterprise Data Warehouse (EDW) and Lumeris received a file from the State of Florida’s Event Notification Health Information Exchange.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

**ADSP** – Accountable Delivery System Platform (ADSP)® is the core technology behind Lumeris’

technology-enabled solutions. The ADSP was purpose-built for population health management and has

proven successful in the Lumeris-operated Medicare Advantage plan, as well as with health systems,

payers and providers across the country.

**ADT** – Admission, discharge and transfer HL7 transactions

**HL7** – Health Level 7 refers to a set of international standards for transfer of clinical and administrative data between software applications used by various healthcare providers

**EDW** – Enterprise Data Warehouse (internally to BayCare is retrieved from our Cerner Millennium Electronic Medical Record)

### 1.3.2 Glossary –N/A

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 –N/A

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 -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 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.2018.07.10.1 | Blocking Outreach encounters | Suppressing all transactions where PV1.18 is JO, MO, WO, JR, MR or WR. |
| FR.2018.07.10.1 | Passing certain encounters based on insurance plan | Continue all transactions where IN1.2 is 3511 (test) and XXXX (prod). |

## 3.2 Non-Functional Requirements –N/A

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 BayCare’s 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 –N/A

|  |  |
| --- | --- |
| 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 –N/A

|  |  |
| --- | --- |
| 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

HL7 2.3/Soarian ADT\_A01

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

[EVN]

PID

[PV1]

[PV2]

[{DG1}]

*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 | Inpatient arrival |
| A03 | Dicharge patient |
| A04\* | Outpatient arrival |
| A06 | Transfer out to in |
| A07 | Transfer in to out |
| A08\* | Update information |

\* Also defined for BOI locations

### 4.1*.*3 Cloverleaf Configuration Files

Cloverleaf Configuration Files: soarf\_lumeris\_adt

Variants: HL7 2.6/Soarian ADT\_A01

### 4.1.4 Cloverleaf Site Location

Cloverleaf site location: bmg\_1\_p

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Notes** |
| --- | --- | --- | --- |
| Message header segment | Varies | Y | Pathcopy the entire segment |
| Sending application | MSH.3 | Y | Hard coding “SOARIAN” |
| Receiving application | MSH.5 | Y | Hard coding “LUMERIS” |
| Version ID | MSH.12 | N | Hard coding “2.6” |
| Event notification segment | Varies | Y | Pathcopy the entire EVN segment |
| Patient identifier segment | Varies | Y | Pathcopy the entire PID segment |
| Patient ID: assigning authority and identifier type code | PID.2 | N | @nulling subfield .3 and .4 |
| Patient identifier list: ID number, assigning authority and identifier type code | PID.3 | Y | Copying from IN1.36 (insurance plan member number) to subfield 0 and @nulling .3 and .4. |
| Set ID | PV1.1 | Y | Copy |
| Patient Class | PV1.2 | Y | Copy |
| Admission Type | PV1.4 | Y | Copy |
| Preadmit number | PV1.5 | Y | Copy |
| Attending Doctor | PV1.7 | Y | Copy |
| Hospital Service | PV1.10 | Y | Copy |
| Discharge disposition | PV1.36 | Y | Copy |
| Admit date/time | PV1.44 | Y | Copy |
| Discharge date/time | PV1.45 | Y | Copy |
| Admit reason | PV2.3 | Y | Copy |
| Transfer reason | PV2.4 | Y | Copy |
| Expected admit date/time | PV2.8 | Y | Copy |
| Clinic Organization name: Organization name, organization type code | PV2.23 | Y | Iterate on PV2.23 and if PV2.23.6 = NPI, copy subfield 2 to MSH.4 per vendor request. |
| Diagnosis date/time  Diagnosis type  Major diagnostic category  Diagnostic related group | DG1.3,  DG1.4,  DG1.5,  DG1.6 | Y | Iterate on the DG1 segment and populate also possible field instances outbound |

## 4.3 Sample Message

BOI SAMPLE:

MSH|^~\&|SOARIAN|1780665125|LUMERIS||201812071325||ADT^A04|12eb130e-9784-4d24-a874-2c3a8c4d6f66|P|2.6||1

EVN|A04|201812071325||CI|afs80946|201812071317|16306

PID|1|810068246|123456789||TESTFRANCES^MARIE^^^^^L^^^20180604||19500527|F||White|123 MAIN STREET^^Dunedin^FL^34698^USA^M^^Pinellas^^^20180604||^PRN^PH^^1^727^5551212~^ORN^CP^^1^727^4925555^^Pref||EN|S|Christian|6000091190^^^BCHS^VCD^^20181207||||Non HIS or LAT||N|0|||||N|N

PV1|1|O|||||005224^Tan^Edison^Ngo^^PRN^1962475533^NPI^^^^^^^onecall^M0J5|||CAT||||||||||||||||||||||||||AHR||||||||201812071317

PV2|||PAIN

FACILITY SAMPLE:

MSH|^~\&|SOARIAN|1265419907|LUMERIS||201812071344||ADT^A04|2a94eda9-a910-42bd-9b45-b576b13ae7bf|P|2.6||1

EVN|A04|201812071344||CI|afs80946|201812071336|9017

PID|1|810070848|999998989888||LumerisTest^Female^^^^^L^^^20181207||19501206|F||White|555 Oak Drive^""^New Port Richey^FL^34655^USA^M^^Pasco^^^20181207||^PRN^PH^^1^727^5555555^""^""||EN|S||6000091194^^^BCHS^VCD^^20181207||||Non HIS or LAT||N|0|||||N|N

PV1|1|O||Elective|||005224^Tan^Edison^Ngo^^PRN^1962475533^NPI^02264^PRDOC^MCS^^^^onecall^60A0|||CAT||||||||||||||||||||||||||AHR||||||||201812071336

PV2|||SICK

# 5. 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