**TransUnion ADT Requirements**

**Version 2.1**

**Prepared By: Tiffany Bohall**

**Date: 9/19/2016**

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# **Document Control**

## Resources

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|  |  |  |
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|  |  |  |

## Project Distribution List –N/A

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 11/16/2015 | Tiffany Bohall | Originally Created |
| V2.0 | 04/06/2016 | Tiffany Bohall | Updated based on recent production changes |
| V2.1 | 9/19/16 | Tiffany Bohall | Pasted the ‘soarf\_trans\_plancode’ table under the FR.2016.04.06 functional requirements |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the Admission, Discharge and Transfer (ADT) requirements as originally defined and then rewritten for Soarian implementation. The intended audience includes anyone who seeks to know more about the requirements currently in place from Soarian Financials to TransUnion interface build.

## 1.2 Project Scope

Describe the scope of the integration that is defined in this IDDB, particularly if this IDBB defines only part of the system or a single subsystem.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

Define the acronyms and their associated definitions used in this document. The acronyms should be listed in alphabetical order.

### 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 –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.2016.11.16 | FilterNoSegment | Suppress all ADT messages that do not have an IN1 insurance segment. TransUnion cannot process these messages. |
| FR.2016.11.16 | FilterNoSegment | Suppress all ADT messages that do not have a GT1 guarantor segment. TransUnion cannot process these messages. |
| FR.2016.11.16 | Receiving Application logic | Within the translation file, there are comments at the top that MSH.5 must be hard coded with “127” for production and “133” for test. Is this is not done; messages will not process in the respective environments. |
| FR.2016.04.06 | Soarf\_trans\_plancode | The application is only used for Medical Necessity within BayCare. The insurance plan code table was refined in production on April 6th, 2016. Previously, the table held 52 BayCare insurance plan codes that included self-pay, automobile, medically needy, government assistance, etc. The latest update consist of only 23 BayCare insurance plan codes and a single Soarian Health Plan Reporting group; all still consisting of self-pay, automobile, medically needy, government assistance, etc (see below for Cloverleaf table). |

## 3.2 Non-Functional Requirements

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.2016.11.16 | filterHL7MessageNEW | On each facility route from Soarian, block PSI encounters via PV1.10. |

## 3.3 Messaging Protocols

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

### 3.3.1 Inbound to the BayCare Cloverleaf –N/A

* Click here to enter text.

### 3.3.2 Outbound to the BayCare Cloverleaf –N/A

* Click here to enter text.

### 3.3.3 Inbound to the Vendor –N/A

* Click here to enter text.

### 3.3.4 Outbound to the Vendor

**TEST**

IP: 66.175.243.27

Port: 8305

**PROD:**

IP: 66.175.243.26

Port: 9305

### 3.3.5 Inbound to the BayCare Cerner –N/A

Test

Port Number: Click here to enter text.

IP Address: Click here to enter text.

Prod

Port Number: Click here to enter text.

IP Address: Click here to enter text.

### 3.3.6 Outbound to the BayCare Cerner –N/A

Test

Port Number: Click here to enter text.

IP Address: Click here to enter text.

Prod

Port Number: Click here to enter text.

IP Address: Click here to enter text.

# 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

[PV1]

[{ GT1}]

IN1

*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 Admit |
| A02 | Transfer patient |
| A03 | Discharge |
| A04 | Arrive an outpatient |
| A06 | Transfer outpatient to inpatient |
| A07 | Transfer inpatient to outpatient |
| A08 | Update patient information |
| A10 | Place outpatient in a bed |
| A11 | Cancel admit |
| A13 | Cancel discharge |
| A28 | Add person information |
| A31 | Update person information |

### 4.1*.*3 Cloverleaf Configuration Files

Translation: soarf\_transunion\_adt

### 4.1.4 Cloverleaf Site Location

Cloverleaf site location: soarf\_adt\_ent\_18.

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| Message Header Segment | MSH | Y | Varies | Varies | Pathcopy the entire segment. |
| Event Segment | EVN | Y | Varies | Varies | Pathcopy the entire segment. |
| Sending Application | MSH.3 | N | HD | 227 | Hard coding “SOARIAN” |
| Receiving Application | MSH.5 | Y | HD | 227 | Hard coding “133” in test and “127” in production |
| Receiving Facility | MSH.6 | C | HD | 227 | Hard coding “CR” |
| Date/time of message | MSH.7 | Y | DTM | 24 | TCL proc to trim seconds |
| Message Control ID | MSH.10 | C | ST | 199 | Sending the output to variable “UNIQ,” TCL proc for ADTContNum, and then concatenating all values into output of subfield 0. |
| Version ID | MSH.12 | Y | VID | 60 | Hard coding “2.3” |
| Patient ID | PID.2 | Y | CX | 50 | Copy |
| Patient Identifier List | PID.3 | Y | CX | 250 | Copy |
| Patient Name | PID.5 | Y | XPN | 250 | Copy |
| Date/Time of birth | PID.7 | C | DTM | 24 | Copy |
| Administrative Sex | PID.8 | N | IS | 1 | Copy |
| Race | PID.10 | Y | CWE | 705 | Copy |
| Patient Address | PID.11 | Y | XAD | 250 | Copy |
| Phone Number - Home | PID.13 | N | XTN | 250 | Copy |
| Phone Number - Business | PID.14 | Y | XTN | 250 | Copy |
| Primary Language | PID.15 | N | CWE | 705 | Copy |
| Marital Status | PID.16 | N | CWE | 705 | Copy |
| Patient account Number | PID.18.0 | C | CX | 250 | Copy |
| SSN Number - Patient | PID.19 | C | ST | 16 | TCL proc to format the SSN with dashes and copy outbound |
| Citizenship | PID.26 | N | CWE | 705 | Copy |
| Patient Class | PV1.2 | Y | IS | 1 | Copy |
| Assigned Patient Location | PV1.3 | Y | PL | 80 | Copy. If EVN.1 = A11, @null PV1.3. |
| Assigned Patient Location Facility | PV1.3.3 | Y | PL | 80 | Take the output of MSH.4 and copy outbound |
| Attending Doctor | PV1.7 | C | XCN | 250 | Copy |
| Hospital Service | PV1.10 | N | IS | 4 | Copy |
| Patient Type | PV1.18 | C | IS | 10 | Copy |
| Financial Class | PV1.20 | N | FC | 50 | Copy |
| Charge Price Indicator | PV1.21 | Y | IS | 2 | Copy the output of PV1.18 outbound |
| Servicing Facility | PV1.39 | N | IS | 25 | Copy the output of MSH.4 outbound |
| Admit Date/Time | PV1.44 | N | DTM | 24 | Copy |
| Discharge Date/Time | PV1.45 | Y | DTM | 24 | Copy. If EVN.1 = A13, @null PV1.45. |
| Guarantor Name | GT1.3 | N | XPN | 250 | Copy |
| Guarantor Address | GT1.5 | Y | XAD | 250 | Copy |
| Guarantor Date/Time of Birth | GT1.8 | C | DTM | 24 | Copy |
| Guarantor Administrative Sex | GT1.9 | N | IS | 1 | Copy |
| Guarantor Relationship | GT1.11 | C | CWE | 250 | Copy |
| Guarantor SSN | GT1.12 | C | ST | 11 | Copy |
| Primary Language | GT1.36 | N | CWE | 705 | Copy |
| Insurance Plan ID | IN1.2 | C | CWE | 250 | Iterate through each repeating IN1 segment and if IN1.22 =1, send IN1.2.0 plan code through a table (soarf\_trans\_plancode), output to a variable and do the same with ZIN.58.0 output to a second variable.  If the output of either variable does not = ZZZ, pathcopy the entire IN1 segment outbound. Else, suppress the message.  \*ZZZ is defined in the table as the default value. So it is assumed that any variable returned which is not ZZZ, is a valid TransUnion plan code and should be passed outbound appropriately\* |
| Coordination of Benefits Priority | IN1.22 | C |  |  | Iterate through each repeating IN1 segment and if IN1.22 =2, suppress the message. |

## 4.3 Sample Message

**OUTBOUND TO TRANSUNION:**

MSH|^~\&|SOARIAN|WHH|133|CR|201511161013||ADT^A01|201511161013-04493|P|2.3||1

EVN|A01|201511161013||CI|b096773|201511161010|16606

PID||300145588^^^900000^PN|2104715937^^^BCHS^MR||WHHPYXISES^PETE^^^^^L^^^20151116||19400501|M||White|3986 TAMPA RD^^Oldsmar^FL^34677^USA^M^^Pinellas^^^20150916||^PRN^PH^^1^813^8524949||EN|M||6000009664

PV1||I|ACU^T422^02^WHH||||011948^Bailey^Christian^S^^PRN^1356321806^NPI^^^^^^^onecall|||MED||||||||I||Self-pay|I||||||||||||||||||WHH|||||201511161010

GT1|||WHHPYXISES^PETE^^^^^L^^^20151116||3986 TAMPA RD^^Oldsmar^FL^34677^USA^M^^Pinellas^^^20150916|||19400501|M||6|||||||||||||||||||||||||EN

IN1|1|Z99^Uninsured|433^^^900000^XX^^20120228|Uninsured^L^433^^^900000^XX|3986 Tampa Rd^^Oldsmar^FL^34677^USA^M^^^^HCS-M|^^^^^^^HCS-M|^NET^^^^^^^HCS-M||Uninsured||||||Health|WHHPYXISES^PETE^^^^^L^^^20151116~MDHPYXISES^PETE^^^^^L^^^20150916&20151116|6|19400501|3986 TAMPA RD^^Oldsmar^FL^34677^USA^M^^Pinellas|||1||||||||||||||NONE|||||||M||false||||300145588^^^900000^PN^^20150916~2104715937^^^504^MR^^20150917

MSH|^~\&|SOARIAN|MCS|133|CR|201511161452||ADT^A08|201511161452-27350|P|2.3||1

EVN|A08|201511161452||RVE|TRN90002|201511161409|9017

PID||300146640^^^900000^PN|2104716817^^^BCHS^MR||WARNER^DENNIS^L^^^^L^^^20151113||19631012|M||White|3986 TAMPA RD^^Oldsmar^FL^34677^USA^M^^Pinellas^^^20151116||^PRN^PH^^1^813^8523003^^Pref||HP|M||6000009704

PV1||E|^^^MCS||||666666^Unassigned^ER Doctor^^^PRN^^^01673^PRDOC^MCS|||ERD||||||||E||Auto Med|E||||||||||||||||||MCS|||||201511161325

GT1|||WARNER^DENNIS^L^^^^L^^^20151113||3986 TAMPA RD^^Oldsmar^FL^34677^USA^M^^Pinellas^^^20151116|||19631012|M||6|||||||||||||||||||||||||HP

IN1|1|629^Auto State Farm|1506^^^900000^XX^^20130605|Auto^L^1506^^^900000^XX|PO BOX 106134^^ATLANTA^GA^303486134^USA^M^^^^POLCS-M~PO Box 106134^^Atlanta^GA^303486134^USA^M^^^^HRefund|^^^^^^^POLCS-M|^WPN^PH^^0^800^6274028^^POLCS-M||Auto State Farm|9010^^^900000^XX^^20150720|WALMART^L^9010^^^900000^XX||||Liability|WARNER^DENNIS^L^^^^L^^^20151113~WARNER^DENNIS^^^^^L^^^20151113&20151113|6|19631012|3986 TAMPA RD^^Oldsmar^FL^34677^USA^M^^Pinellas|||1||||||||||||||7144825B0513G|||||||M||false||||2104716817^^^504^MR^^20151113~300146640^^^900000^PN^^20151113

# **5. Testing-N/A**

## 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

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

Provide the detail as to how to deploy the solution defined in the IDBB from both the BAYCARE and vendor perspective.

# 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