**Carescape Gateway ADT Requirements**

**Version 1.0**

**Prepared By: Tiffany Bohall**

**Date: 6/4/2018**

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# **Document Control**

## Resources: (include Project Team Members, Liaisons, Vendor Contacts, etc.)

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## Project Distribution List –N/A

## Document Version Control

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# 1. Introduction

## 1.1 Purpose

The purpose of this document is to record the HL7 interface manipulation taking place to the Admission, Discharge and Transfer HL7 events from Soarian to Carescape Gateway (formerly GE Aware). Carescape is an application used for physiological vital sign monitoring. The intended audience includes anyone wishing to know more about the interface requirements.

## 1.2 Project Scope

The scope of the integration that is defined for this interface includes only patients for St Anthony’s Hospital (SAH), St Joseph’s Hospital North (SJN) and St Joseph’s Hospital South (SJS). No other facilities are included. Each hospital has its own dedicated outbound HL7 connection.

## 1.3 Terminology Standards –N/A

### 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 –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 –N/A

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.20XX.1.0 | Click here to enter text. | Click here to enter text. |

## 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 the BayCare Cloverleaf –N/A

|  |  |
| --- | --- |
| FTP |  |
| MLLP Socket Connection (TCP/IP) |  |
| Local File Drop by Midrange Team |  |
| Other | Click here to enter text. |

### 3.3.2 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

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

EVN

PID

[PV1]

*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 |
| A02 | Transfer |
| A03 | Discharge notice |
| A04 | Outpatient arrival |
| A06 | Status Transfer -out to in |
| A07 | Status Transfer -in to out |
| A08 | Update patient |
| A10 | Place a patient in a bed |
| A11 | Cancel admit |
| A13 | Cancel discharge |

### 4.1*.*3 Cloverleaf Configuration Files

Variants: HL7 2.6 Soarian ADT\_A01

Xlate: soarf\_aware\_adt.xlt

### 4.1.4 Cloverleaf Site Location

Cloverleaf site location: soarf\_adt\_fac\_19

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Notes** |
| --- | --- | --- | --- |
| Message Header Segment | Varies | Y | Pathcopy the entire segment |
| Message Type  Event Type Code | MSH.9  EVN.1 | Y | If MSH.9 = A09, hard code A03 in MSH.9 and EVN.1.  \*Since Soarian does not send A09 events, this is essentially dead code as it only applied to Invision.\* |
| Event Notification Segment | Varies | Y | Pathcopy the entire segment |
| Patient Identifier List | PID.3 | Y | Copy from PID.3.0 and hard code “MRN” in PID.3.4 |
| Ptient Name | PID.5 | Y | Copy |
| Patient Account Number | PID.18 | Y | Copy |
| Patient Class | PV1.2 | Y | Copy |
| Assigned Patient Location | PV1.3 | Y | Copy |
| Admission Type | PV1.4 | Y | Copy |

## 4.3 Sample Message

MSH|^~\&|SOARF|SAH|||201806040916||ADT^A04|dbd81242-2c2e-4023-8b52-73b1f4b4e6c8|P|2.7||1

EVN|A04|201806040916||CI|lmp76857|201806040911|9046

PID|||7000057657^^^^MRN||MODIFIER^RACHEL^^^^^L^^^20180604|||||||||||||6000087798

PV1||E||Emergency

MSH|^~\&|SOARF|SJS|||201805151648||ADT^A04|a6132116-ab2f-4eb0-8e01-d4afabddb8c9|P|2.7||1

EVN|A04|201805151648||CI|amy48634|201805151640|9072

PID|||7000017594^^^^MRN||APRILREG^NELSON^^^^^L^^^20180515|||||||||||||6000037670

PV1||O|A2EA^2412^A^SJS|Emergency

# 5. Alerts

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