**GECB ADT to Medicity**

**1.0**

**Prepared By: Stephen M. Mattei**

**Date: 12/4/2017**

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# **Document Control**

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## Project Distribution List

## Document Version Control

|  |  |  |  |
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# 1. Introduction

## 1.1 Purpose

The Purpose of this document is to define the functional and nonfunctional requirements for the GE Centricity Business (GECB) to Medicity HIE ADT interface.

* Specifies the requirements to be included in the technical design and build of the Medicity ADT interface
* Defines the Cloverleaf mapping requirements to support the solution
* Defines source and destination protocols as well as connectivity data
* Creates a detailed description of the business logic associated with the stored procedure and defines field length, field data types, and order of fields as wells as the stored procedure’s name.

As is true with any requirements specification, this document may be modified, subject to developments in technology, changes to the standards, or new business requirements.

## 1.2 Project Scope

We are integrating GE Centricity Business (GECB) with Medicity HIE so that all BayCare Medical Group (BMG) patients will be accounted for in the Health Information Exchange (HIE).

## 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

N/A

# 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.2017.1.0 | Filter no patient name | If we receive a record without a paitent last name, PD1:5.1 then prevent the message from being sent to Medicity |
| FR.2017.2.0 | Filter no patient DOB | If we don’t receive a DOB, date of birth, then prevent the messages from being sent to Medicity PID:7.0 |
| FR.2017.3.0 | Filter no paitent CPI | If there is no CPI the record is prevented from being sent to Medicity, PID:3.0 |
| FR.2017.4.0 | Provider NPI | Insure that we pass the NPi for the physician ID and not the MS number. |
| FR.2017.5.0 | HIE consent flags | Insure that we pass the correct consent flag in PD1:12  OI – Opt In \ Consent Obtained  OO – Opt Out \ Consent Revoked |
| FR.2017.6.0 | Consent Date | Insure that the consent date in PDI:13 is formatted with time included. 0000 is sent for the time. |
| FR.2017.7.0 | Patient Phone | Insure that only the home phone is sent to Medicity. PID:13 |
| FR.2017.8.0 | Facility ID | The correct facility ID needs to be passed in MSH:4 wich is mapped from PV1:3 |
| FR.2017.9.0 | Required Insuracne Data | If the key required insurance data is missing from the message don’t sent the segment, IN1:4 and IN2:3. Insurance company name and insured’s employer. |

## 3.2 Non-Functional Requirements

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

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

### 3.3.2 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

[PD1]

[PV1]

[PV2]

[{GT1}]

[{

IN1

[IN2]

}]

[{NK1}]

*Message Construction Notes:*

*[Square Brackets] – Optional*

*{Curly Brackets} – Repeatable*

*MSH – Message header*

*EVN – Event segment*

*PID – Patient ID segment*

*PV1 – Patient visit segment*

*PV2 - Additioanl visit Data*

*IN1 – Insurance segment*

*IN2 – Insurance segment*

*NK1 – Next of kin segment*

*GT1 – Guarantour 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 | Admit |
| A03 | Discharge |
| A04 | Register |
| A05 | Pre-admit |
| A08 | Update Info |
| A11 | Cancel Admit |
| A13 | Cancel Discharge |
| A14 | Pending Admit |
| A21 | Leave of absence |
| A22 | Returns from leave of absense |

### 4.1*.*3 Cloverleaf Configuration Files

tps\_ge\_medicity\_adt.tcl

### 4.1.4 Cloverleaf Site Location

medicity\_15

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Notes** |
| --- | --- | --- | --- |
|  | MSH:XX.XX |  |  |
| Sending Facility | MSH:4 | Y | This field is pulled from PV1:3 |
| **Remaining MSH** | MSH:\* |  | All other MSH fields sent as is without modification |
| Paitent Phone | PID:13 | N | Only send the Home, “HOM”, phone. |
| **Remaining PID** | PID:\* |  | All other PID fields sent as is without modification |
| Attending Dr. ID | PV1:7.1 | N | Insure that NPI is moved to first position from 8th component of same field |
| Referring Dr. ID | PV1:8.1 | N | Insure that NPI is moved to first position from 8th component of same field |
| Consulting Dr. ID | PV1:9.1 | N | Insure that NPI is moved to first position from 8th component of same field |
| Admiting Dr. ID | PV1:17.1 | N | Insure that NPI is moved to first position from 8th component of same field |
| Other Dr. ID | PV1:52.1 | N | Insure that NPI is moved to first position from 8th component of same field |
| **Remaining PV1** | PV1:\* |  | All other PV1 fields sent as is without modification |
| PCP ID | PD1:4.1 | N | Insure that NPI is moved to first position from 8th component of same field |
| Protection Indicator | PD1:12 | N | Consent Obtained is mapped to OI  Consent Revoked is mapped to OO |
| Protection Indeicator Date Time | PD1:13 | N | Medicity requires that the value include time so “0000” is appended to the time date stamp. |
| **Remaining PD1** | PD1:\* |  | All other PD1 fields sent as is without modification |
| All Other Segments | XXX:\* |  | All other sgmetns are sent has is with no modications: EVN, IN1, IN2, NK1 & GT1. |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## 4.3 Sample Message

MSH|^~\&|BAR|PCS|HIS|HCI|201712060942||ADT^A08|64623\_15\_PV|P|2.3||||||ASCII|

EVN|A08|201712060942|||B104176TEST\*EPMS|

PID|1||810015992^6007114^810015992||TEST^STEVE-SMG^^^^||19910101|M||WHT|1234 MAIN ST^^PALM HARBOR^FL^34684||HOM^(727)555-1234||ENG|S||4611894|999-99-9999|||NOT|||||||||

PD1||||1245466093^MALONEY MD^TIMI^D^^^^1245466093||||||||OI|201711290000|

PV1|1|O|PCS|ELE|4611894||1245466093^MALONEY MD^TIMI^D^^^^1245466093|1245466093^MALONEY MD^TIMI^D^^^^1245466093||\*NA||||PHY||N||OFFC|4611894|SELF PAY||||||||||||||||||||N||||0000|0000|||||||1245466093^MALONEY MD^TIMI^D^^^^1245466093|

PV2||S|^test||||1|201712060900||||||||||1||||N|

GT1|1||||||||||SEL||||1||||||

# 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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** |  |  | | |  |  |  |  |
| **Number** | **Risk / Concern** | **Comment** | **Mitigation** | | |  |  |  |
| RC.2013.1.0 |  |  | |  | |  |  |  |

# 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.2013.1.0 |  |  | |  | |  |  |  |

* End of document