**GE Centricity Business SIU to Medtronic Paceart**

**Version 1.2**

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# **Document Control**

## Resources

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 3/27/2017 | Stephen Mattei | Originally Created |
| V1.1 | 6/7/17 | Lois Whitley | Updated sample messages |
| V1.2 | 8/7/19 | Tiffany Bohall | Reviewed document to confirm it is up to date |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the Scheduling interface requirements for the Medtronic Paceart application.

## 1.2 Project Scope

Integration for this application includes a Scheduling Interface (SIU) from GE Centricity Business to Medtronic Paceart.

HL7 integration of the Medtronic Paceart Optima system with BayCare enterprise systems includes scheduling, demographics, and results: inbound (Scheduling) and outbound (PDFs and/or discrete data Results).  
  
("The Medtronic Paceart® System organizes and archives data for cardiac devices across manufacturers and serves as a central repository for a patient's arrhythmia information. The Paceart System serves as a gateway through which data flows from programmers and remote monitoring systems to a clinic's electronic health record (EHR) system.)

## 1.3 Terminology Standards

### 1.3.1 Acronyms

**SIU –** Scheduling Information Unsolicited; notifies an auxiliary application of changes to some facet of the filler application's appointment schedule.

### 1.3.2 Glossary

**Medtronic** is the vendor name.

**Paceart** is the application.

## 1.4 Document References

Mainspring Data Express Connectivity Guide

# 2. Diagram

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).

bmg site

# 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.2017.3.0 | Only pass schedules applicable to Paceart | We need to look at either SCH:81 or PV1:19.1 to determine if the message is applicable. Currently the only confirmed values are PAC & RDC |
| FR.2017.3.1 | Pass all patient identifiers in PID:3 | We need to pass the FIN, SNN and CPI in PID:3 i.e. 300000004^^^^BCCPI~3111149^^^^BMGFN~111223347^^^^SNN |
| FR.2017.3.2 | Supress PV1:2 | The vendor does not want anything passed in PV1:2 because it can interfere with the application functionality. |
| FR.2017.3.3 | Move appointment start time | Move the appointment start time from SCH:11.1 to SCH:11.4 |
| FR.2017.3.4 | Copy appointment ID to SCH:2 | The vendor needs the appointment ID Duplicated in SCH:2.1 |
| FR.2017.3.5 | Only applicable locations are to be passed | We are using PV1:3.1 to determine if the locations matches the following list: TPC HCO HCL HNB SCA HDU |

## 3.2 Non-Functional Requirements –N/A

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.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. Please see the reference document located on the Integration SharePoint server: <insert link to document here>

### 3.3.1 Inbound to the BayCare Cloverleaf

* TCP/IP MLLP

### 3.3.2 Outbound to the Vendor

* TCP/IP MLLP

# 4. HL7 Messaging

## 4.1 Messaging Format

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

SCH

PID

PV1

[AIS]

[AIG]

[AIL]

[AIP]

*Message Construction Notes:*

*[Square Brackets] – Optional*

*{Curly Brackets} – Repeatable*

*MSH – Message Header*

*PID – Patient ID segment*

*PV1 – Patient Visit segment*

*SCH- Schedule Segment*

*AIS – Service Segment*

*AIG – General Resource Segment*

*AIL – Location Resource Segment*

*AIP- Personnel Resource 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** |
| S12 | Add Appointment |
| S13 | Updated Appointment \ Rescheduled |
| S14 | Add Update Appointment \ Modification |
| S15 | Cancel Appointment |

### 4.1*.*3 Cloverleaf Configuration Files

For each HL7 interface specified in Section 2 of this document, identify the Cloverleaf Configuration Files: Variants, TCL Scripts, Xlates, etc.

### 4.1.4 Cloverleaf Site Location

* Cloverleaf Site Name: bmg\_1
* IP Cloverleaf Connection Name: siu\_ge\_in
* OB Cloverleaf Connection Name: siu\_paceart\_out

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Notes** |
| --- | --- | --- | --- |
| MSH\* | \* | Y | No modifications; MSH sent as is |
| PID\* | \* | Y | All fields sent; Modifications following |
| Patient IDs | PID:3.\* | Y | All patient IDs must be sent in this field and are formatted like:  CPI = 300000004^^^^BCCPI  FIN = 3111149^^^^BMGFN  SNN = 111223347^^^^SNN  Joined on tilde |
| PV1\* | \* | Y | All fields sent; Modifications following |
| Patient Type | PV1:2 | N | Blank out field |
| Patient Visit ID aka FIN | PV1:19 | Y | The FIN is copied from PID:18 to this field because that is the only way to get the vendor to send it back successfully. |
| SCH\* | \* | Y | All fields sent; Modifications following |
| Filler Appointment ID | SCH:2 | Y | Copy contents of SCH:1 to this field |
| Appointment Time | SCH:11 | Y | Field is reformatted to vendor specifications and inserted into the fourth component of the field. |
| AIS\* | \* | N | No modifications; MSH sent as is |
| AIG\* | \* | Y | No modifications; MSH sent as is |
| Resource ID | AIG:3 | Y | Copied from AIP:3.0, Personnel Resource ID |
| AIL\* | \* | N | No modifications; MSH sent as is |
| AIP | \* | N | No modifications; MSH sent as is |

## 4.3 Sample Message

**INBOUND from GE:**

MSH|^~\&|||||201907251134||SIU^S12|65219\_48\_SC1|P|2.3||||||ASCII|

SCH|7046157|7046157||||~TEST|RDC|RDC|10|MIN|^^^201907251000|MS006522^BLACK MD^ROBERT^A^^^^1508826785||||||||B102324TEST|||||PEN|

PID|1||810123600^^^^CPI||HCLTEST^LEILANI^^^^||19530907|F||2106-3|93 FORGETMENOT CIRCLE^^SARASOTA^FL^34230||(941)555-7531|||M||7046157|999-99-9999||||||||||||

PV1|1||HCL|||||261^ELDER MD^KEVIN^E^^^^1598768160|||||||||||7046157|||||||||||||||||||||||||201907251000|

AIS|1||7046157|201907251000|||10|MIN||P|

AIG|1||MS006522|||||201907251000|||10|MIN||P|

AIL|1||HCL|||201907251000|||10|MIN||P|

AIP|1||MS006522^BLACK MD^ROBERT^A^^^^1508826785|||201907251000|||10|MIN||P|

MSH|^~\&|||||201907251134||SIU^S14|65219\_50\_SC6|P|2.3||||||ASCII|

SCH|7046157|7046157||||~TEST|RDC|RDC|10|MIN|^^^201907251000|MS006522^BLACK MD^ROBERT^A^^^^1508826785||||||||B102324TEST|||||ARR|

PID|1||810123600^^^^CPI||HCLTEST^LEILANI^^^^||19530907|F||2106-3|93 FORGETMENOT CIRCLE^^SARASOTA^FL^34230||(941)555-7531|||M||7046157|999-99-9999||||||||||||

PV1|1||HCL|||||261^ELDER MD^KEVIN^E^^^^1598768160|||||||||||7046157|||||||||||||||||||||||||201907251000|

AIS|1||7046157|201907251000|||10|MIN||A|

AIG|1||MS006522|||||201907251000|||10|MIN||A|

AIL|1||HCL|||201907251000|||10|MIN||A|

AIP|1||MS006522^BLACK MD^ROBERT^A^^^^1508826785|||201907251000|||10|MIN||A|

**OUTBOUND to PaceArt:**

MSH|^~\&|||||201907251134||SIU^S12|65219\_48\_SC1|P|2.3||||||ASCII|

SCH|7046157|7046157||||~TEST|RDC|RDC|10|MIN|^^^201907251000|MS006522^BLACK MD^ROBERT^A^^^^1508826785||||||||B102324TEST|||||PEN|

PID|1||810123600^^^^CPI||HCLTEST^LEILANI^^^^||19530907|F||2106-3|93 FORGETMENOT CIRCLE^^SARASOTA^FL^34230||(941)555-7531|||M||7046157|999-99-9999||||||||||||

PV1|1||HCL|||||261^ELDER MD^KEVIN^E^^^^1598768160|||||||||||7046157|||||||||||||||||||||||||201907251000|

AIS|1||7046157|201907251000|||10|MIN||P|

AIG|1||MS006522|||||201907251000|||10|MIN||P|

AIL|1||HCL|||201907251000|||10|MIN||P|

AIP|1||MS006522^BLACK MD^ROBERT^A^^^^1508826785|||201907251000|||10|MIN||P|

MSH|^~\&|||||201907251134||SIU^S14|65219\_50\_SC6|P|2.3||||||ASCII|

SCH|7046157|7046157||||~TEST|RDC|RDC|10|MIN|^^^201907251000|MS006522^BLACK MD^ROBERT^A^^^^1508826785||||||||B102324TEST|||||ARR|

PID|1||810123600^^^^CPI||HCLTEST^LEILANI^^^^||19530907|F||2106-3|93 FORGETMENOT CIRCLE^^SARASOTA^FL^34230||(941)555-7531|||M||7046157|999-99-9999||||||||||||

PV1|1||HCL|||||261^ELDER MD^KEVIN^E^^^^1598768160|||||||||||7046157|||||||||||||||||||||||||201907251000|

AIS|1||7046157|201907251000|||10|MIN||A|

AIG|1||MS006522|||||201907251000|||10|MIN||A|

AIL|1||HCL|||201907251000|||10|MIN||A|

AIP|1||MS006522^BLACK MD^ROBERT^A^^^^1508826785|||201907251000|||10|MIN||A|

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** |
|  |  |  |  |
| BMG\_1\_p | Pending TTSD | Cloverleaf Integration and Diagnostic Applications teams | Alert on thread protocol being down or high outbound queue depth |

# Appendix A: Risks and Concerns

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** |  |  | | |  |  |  |  |
| **Number** | **Risk / Concern** | **Comment** | **Mitigation** | | |  |  |  |
| RC.2019.8.7 | Wrong provider ID sent to PaceArt | GE is sending out physician RS#’s (resource) in prod but MS#’s (medical) were being sent out in test. The vendor is expecting RS#. | | If production patient is passed to PaceArt with an MS#, they will have to be reregistered with the correct provider ID. | |  |  |  |

# 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