**Results from Paceart to Cerner Requirements**

**Version 1.3**

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**Date: 8/21/2019**

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# **Document Control**

## Resources

|  |  |  |
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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 6/5/2017 | Lois Whitley | Originally Created |
| V1.1 | 7/14/2017 | Sailaja Parimi | Updated with Cerner requirements |
| V1.2 | 08/12/2019 | Tiffany Bohall | Updated based on minor adjustments |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

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

## 1.2 Project Scope

This document will define the communication protocol, message structure, and special business logic for the integration of Results Interface (ORU) from Medtronic Paceart to Cerner Millennium EMR.

BayCare Health System enterprise wide HL7 integration with Medtronic Paceart Optima system includes Scheduling and Results interface. Outbound Scheduling interface is from GE to Paceart system via Cloverleaf; and Inbound Results interface from Paceart system to Cerner Millennium EMR via Cloverleaf for BMG patients that are scheduled at Tampa Cardiology, MPM Diagnostic Cardiology & Suncoast sites. Results interface include only PDF documents.  
  
Paceart is currently used at Tampa Cardiology, MPM Diagnostic Cardiology, LLC and Suncoast sites.

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

**ORU** – Observation Result; the HL7 ORU-R01 message transmits observations and results from the producing system to the ordering system/placer.

### 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).



# 3. Requirements

## 3.1 Functional Requirements

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |

**Cerner 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.

|  |  |  |
| --- | --- | --- |
| **Cerner** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| FR.2017.1.0 | Results interface feed into Cerner | ORU\_TCP\_PACEART\_IN |
| FR.2017.1.1  FR.2017.1.2 | ESI comserver  Contributor System | ORU\_PACEART\_ESI  PACEART  Person Match is set on CPI (Baycare CMRN)  Encounter Match is set on FIN (BMGFN)  Personnel Match is set on MS Number (BayCare Dr Number)  ESI special configuration to process PDF results |
| FR.2017.1.3 | Contributor Source | Primary source – PACEART  Alternate source – Invision |
| FR.2017.1.4 | Aliasing by FSI on PACEART source | Code sets 263, 15769, 16090, 16092,23 |
| FR.2017.1.5 | Aliasing by Core on PACEART source | Code sets 21,23,53,72,103,321 |
| FR.2017.1.6 | Message Center set up | Results for OFC EP Clinic needed to be added as a result event for Ambulatory and Ambulatory Office encounter types in the message center. This is needed to send the results to provider’s inbox in Message Center |

## 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.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

### 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 Cerner

* TCP/IP

# 4. HL7 Messaging

## 4.1 Messaging Format

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

PID

[{NTE}]

PV1

OBR

ZDS

[{OBX}]

*Message Construction Notes:*

*[Square Brackets] – Optional*

*{Curly Brackets} – Repeatable*

*MSH – Message Header*

*PID – Patient ID segment*

*NTE – Notes and Comments segment*

*PV1 – Patient Visit segment*

*OBR – Observation Request segment*

*OBX – Observation/Result 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** |
| R01 | ORU/ACK - Unsolicited Transmission of an Observation |
|  |  |
|  |  |

### 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.

Tps\_paceart\_cer\_oru.tcl

Connections inbound: oru\_paceA\_in and outbound: oru\_paceA\_out\_cer

### 4.1.4 Cloverleaf Site Location

Cloverleaf site locations for interfaces.

bmg\_1

## 

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N/O** | **Data Type** | **Length** | **Cerner Table (T) and/or Code Set (CS)** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- |
| Message Header | MSH | Y |  |  |  |  |
| Sending Application | MSH.3 | Y | HD | 227 |  | Cloverleaf sends “PACEART” |
| Sending Facility | MSH.4 | Y | HD | 227 |  | Cloverleaf sends “MEDITRON |
| Receiving Application | MSH.5 | Y | HD | 227 | CS 15769 | Cloverleaf sends “POSTIMAGE” |
| Receiving Facility | MSH.6 | Y | HD | 227 |  | Cloverleaf sends “BAYCARE” |
| Date/Time of message | MSH.7 | Y | DT\_TS | 26 |  | e.g. 20170626103702 |
| Message Type | MSH.9 | Y | MSG | 15 |  | ORU^R01 |
| Processing ID | MSH-11 | Y | ID | 1 |  | Cloverleaf sends P |
| Version ID | MSH-12 | Y | ID | 8 |  | Cloverleaf sends 2.3 |
| Patient ID | PID | Y |  |  |  | Identifying and demographic  information |
| Set ID | PID-1 | N | SI | 4 |  | Cloverleaf sends 1 |
| Patient ID | PID.2 | N | CX | 20 |  | Paceart MRN |
| Patient Identifier Value | PID.3 | Y | CX | 20 |  | BayCare CPI |
| ID | PID 3.1 | Y | ST |  |  | should have ID  CPI is used for ID |
| Identifier Type Code | PID 3.5 | Y | IS |  |  | Cloverleaf sends “BCCPI” |
| Patient Name | PID.5 | N | XPN | 250 |  |  |
| Date/Time of Birth | PID.7 | N | TS | 26 |  | YYYYMMDD |
| Patient Gender | PID.8 | N | IS | 1 |  |  |
| Patient Address | PID.11 | N | XAD | 106 |  |  |
| Phone Number – Home | PID.13 | N | XTN | 40 |  |  |
| Marital Status | PID.16 | N | IS | 1 |  |  |
| Religion | PID.17 | N |  |  |  | Cloverleaf suppresses this field  value |
| Patient Account Number | PID.18 | Y | CX |  |  |  |
| ID | PID.18.1 | Y | ST |  |  | FIN Number  Cloverleaf moves FIN  from PID-3 to PID-18 |
| Identifier Type Code | PID.18.5 | Y | IS |  |  | Cloverleaf sends “BMGFN” |
| Notes and Comments | NTE |  |  |  |  |  |
| Patient Record Comment | NTE.3 |  |  |  |  | /PaceartXML/PatientRecord/Comment |
| Patient Visit | PV1 |  |  |  |  | Visit-specific information |
| Set ID | PV1.1 |  | SI |  |  | Valued with 1 |
| Patient Class | PV1.2 | Y | ID | 1 | CS 321  encounter\_class\_cd | A (Ambulatory) |
| Assigned Patient Location of Care | PV1.3 | N | PL | 12 |  | Patient’s location in Paceart |
| Observation Request | OBR |  |  |  |  | Transmits information about  an exam, diagnostic study/observation or assessment that is specific to an order or result  One OBR per message |
| Set ID | OBR.1 | N | SI | 4 |  | Valued to 1 |
| Filler Order Number | OBR.3 | Y | EI | 75 |  | Encounter key; unique to the  encounter comes from Paceart |
| Universal Service Identifier | OBR.4 | Y | CE | 200 | CS 72  Event\_cd | Encounter Type  IMPLANT = 754049  INCLINIC = 754050  REMOTE = 754051  PROGRAMMING / TTM  /PHONENOTE/MISC = 754055 |
| Observation Date/Time | OBR.7 | Y | TS | 26 |  | Date and Time:  YYYYMMDDHHMM |
| Ordering (Referring) Provider | OBR.16 | Y | XCN | 60 |  | ID Number^FamilyName^  GivenName |
| ID Number | OBR.16.1 |  |  |  |  | MS Number is used for ID  This field is required to be  populated to send the result  message to provider’s inbox. |
| Family Name | OBR.16.2 |  |  |  |  |  |
| Given Name | OBR.16.3 |  |  |  |  |  |
| Middle Name | OBR.16.4 |  |  |  |  |  |
| Suffix | OBR.16.5 |  |  |  |  |  |
| Identifier Type Code | OBR.16.13 |  |  |  |  | Cloverleaf sends a value of  “Baycare Dr Number” when  Paceart sends a value in  OBR-16.1 |
| Diagnostic Serv Section ID | OBR.24 | Y | CE | 10 | CS 53 event\_class\_cd | Cloverleaf sends a value of  “MDOC”.  Cerner requires MDOC value to  receive documents with Images or image  documents such as PDF. |
| Result Status | OBR.25 | Y | ID | 1 | CS 8 auth\_sts | In Paceart, if Encounter Lock  is FALSE , then the value is “P”  for Preliminary; Note that  Preliminary results are suppressed by Cloverleaf;  If Encounter Lock is TRUE, then the value is “F” for Final;  If the encounter is Amended OR Corrected then the value is “A”. |
| Document Endorsement Segment | ZDS |  |  |  |  | This segment is  used to communicate  document endorsement  Information (action to be done).  Cerner requires result messages with MDOC type documents with ZDS segments in order to send these messages to providers’ inbox via Message Center.  ZDS segment is sent for all  Document types (e.g. Encounter Brady, Encounter Tachy) to Message Center for Review only. |
| Action Code | ZDS.1 | Y | ID | 12 | CS 21  Action\_type\_cd | Cloverleaf sends “R” (for Review) |
| Clinical Staff | ZDS.2 | Y | CN | 60 |  | Cloverleaf sends OBR-16 value  in this field. |
| Action Date and Time | ZDS.3 | Y | TS |  |  | Cloverleaf sends OBR-7 value  in this field. |
| Action Status | ZDS.4 | Y | ID | 1 | CS 103 | Cloverleaf sends E  (for Expected/Requested) |
| Observation/Result | OBX |  |  |  |  | Carries key clinical observation and result reporting informationCerner can receive both discrete and PDF results; PDF results will be last OBX segment in the result message; Cerner can handle only one PDF result attachment along with other discrete elements; so only one PDF file per message  When message comes from  Paceart , each result message  can have more than 1 pdf.  Since Cerner cannot handle  more than 1 pdf document per message, Cloverleaf splits and sends one document per message into Cerner. |
| Set ID | OBX.1 | N | SI | 10 |  | send a value of 1 |
| Value Type | OBX.2 | Y | CE | 2 |  | Only PDF results are sent into  Cerner at this time. PDF results are identified with a value type of ED |
| Observation Identifier | OBX.3 | Y | CE | 80 |  |  |
| Identifier | OBX.3.1 |  | ID |  | event\_cd (alias) 72 | 18750-0; code for PDF documents |
| Text | OBX.3.2 |  | ST |  |  |  |
| Name of Coding System | OBX.3.3 |  | ST |  |  | = LN |
| Alternate Identifier | OBX.3.4 |  | ID |  |  | File name in Paceart |
| Alternate Text | OBX.3.5 |  | ST |  |  | Document type  Cerner requires this field value  to post and display the result in Powerchart.  If 3.5 is blank on the message  coming in from Paceart, Cloverleaf copies OBX-3.4 to OBX-3.5. |
| Observation Sub-ID | OBX.4 | C | ST | 20 |  | Value received from Paceart  is what is required to be sent to Cerner. |
| Observation Value | OBX.5 | R |  |  |  | Cloverleaf has logic to set the field as below: |
| Source Application | OBX.5.1 |  |  |  |  | Cloverleaf clears this field  since this field should be blank. |
| Type of Data | OBX.5.2 | R |  |  |  | Cloverleaf sends a value of  “APPLICATION” |
| Data Subtype | OBX.5.3 | R |  |  | CS 23  (doc\_format) | Cloverleaf sends a value of  “PDF” |
| Encoding | OBX.5.4 |  |  |  | CS 16090 | = Base64 |
| Data | OBX.5.5 |  |  |  |  |  |
|  | OBX.5.6 |  |  |  |  |  |
| Observation Result Status Code | OBX.11 | Y | ID | 2 | CS 8 | Cloverleaf suppresses results  where OBX-11=P |

## 4.3 Sample Message

**Inbound PDF Result from PaceArt:**

MSH|^~\&|Paceart|Medtronic|POSTIMAGE|BAYCARE|20190726150335||ORU^R01^ORU\_R01|20190726150335000075|P|2.6|||AL|NE|||||IHE\_PCD\_ORU\_R01^IHE PCD^1.3.6.1.4.1.19376.1.6.1.9.1^ISO

PID|||MODEL:2000 Sentinel/SERIAL:123456^^^ANGN^U~810123600^^^^CPI~^^^^MRN~^^^^BCCPI~A10013464^^^^Paceart||HCLTEST^LEILANI||19530907000000+0000|F|||93 FORGETMENOT CIRCLE^^SARASOTA^FL^34230^USA||(941)555-7531|||M

PV1|1|A|BMG Cardiology Clearwater||||||||||||||||7046027

OBR|1||49c571ed-d7af-e911-80f1-0050568f486c|754050^MDC\_IDC\_ENUM\_SESS\_TYPE\_InClinic^MDC^INCLINIC^INCLINIC^MDT|||20190718130000|20190726190325.68+0000||||||||MS007892^Irwin^James^M^M.D.|||||||||A|4e2c5ccf-32ca-4b5e-8e3a-40ec40f18d0f||||||c712acf5-1881-e811-80e0-0050568f486c&Mendoza, Richard

OBX|1|ED|18750-0^Cardiac Electrophysiology Report^LN^Paceart Optima Tech Specs.pdf^Programmer Report|1|Application^pdf^^Base64^JVBERi0xLjUNJeLjz9MNCjY1IDAgb2JqDTw8L0xpbmVhcml6ZWQgMS9MIDI0ODI2MDcvTyA2OC9FIDcwMjk4Ni9OIDgvVCAyNDgyMTcxL0ggWyA1M *\*\*\*removed remaining PDF encoding characters\*\*\**

**Outbound PDF Result to Cerner:**

MSH|^~\&|PACEART|MEDITRON|POSTIMAGE|BAYCARE|20190726150335||ORU^R01^ORU\_R01|20190726150335000075|P|2.3|||AL|NE|||||

PID|1|A10013464^^^^PACMRN|810123600^^^^BCCPI||HCLTEST^LEILANI||19530907000000+0000|F|||93 FORGETMENOT CIRCLE^^SARASOTA^FL^34230^USA||(941)555-7531|||M|18|7046027^^^^BMGFN

PV1|1|A|BMG Cardiology Clearwater||||||||||||||||

OBR|1|1|49c571ed-d7af-e911-80f1-0050568f486c|754050^MDC\_IDC\_ENUM\_SESS\_TYPE\_InClinic^MDC^INCLINIC^INCLINIC^MDT|||20190718130000|20190726190325.68+0000|||^^^20190718130000|||||MS007892^Irwin^James^M^^^^^^^^^BayCare Dr Number||||||||MDOC|A|4e2c5ccf-32ca-4b5e-8e3a-40ec40f18d0f||||||c712acf5-1881-e811-80e0-0050568f486c&Mendoza, Richard

ZDS|S|MS007892^Irwin^James^M^^^^^^^^^BayCare Dr Number|20190718130000|R

OBX|1|ED|18750-0^Cardiac Electrophysiology Report^LN^Paceart Optima Tech Specs.pdf^Programmer Report|1|^APPLICATION^PDF^Base64^JVBERi0xLjUNJeLjz9MNCjY1IDAgb2JqDTw8L0xpbmVhcml6ZWQgMS9MIDI0ODI2MDcvTyA2OC9FIDcwMjk4Ni9OIDgvVCAyNDgyMTcxL0ggWyA1M *\*\*\*removed remaining PDF encoding characters\*\*\**

MSH|^~\&|PACEART|MEDITRON|POSTIMAGE|BAYCARE|20190726150335||ORU^R01^ORU\_R01|20190726150335000075|P|2.3|||AL|NE|||||

PID|1|A10013464^^^^PACMRN|810123600^^^^BCCPI||HCLTEST^LEILANI||19530907000000+0000|F|||93 FORGETMENOT CIRCLE^^SARASOTA^FL^34230^USA||(941)555-7531|||M|18|7046027^^^^BMGFN

PV1|1|A|BMG Cardiology Clearwater||||||||||||||||

OBR|1|1|49c571ed-d7af-e911-80f1-0050568f486c|754050^MDC\_IDC\_ENUM\_SESS\_TYPE\_InClinic^MDC^INCLINIC^INCLINIC^MDT|||20190718130000|20190726190325.68+0000|||^^^20190718130000|||||MS007892^Irwin^James^M^^^^^^^^^BayCare Dr Number||||||||MDOC|A|4e2c5ccf-32ca-4b5e-8e3a-40ec40f18d0f||||||c712acf5-1881-e811-80e0-0050568f486c&Mendoza, Richard

ZDS|S|MS007892^Irwin^James^M^^^^^^^^^BayCare Dr Number|20190718130000|R

OBX|1|ED|18750-0^Cardiac Electrophysiology Report^LN^3e07e0646ae24f8492599b27cd3d13d2.pdf^Encounter Tachy (Simplified, no strips)|2|^APPLICATION^PDF^Base64^JVBERi0xLjQNCiWio4+TDQo1IDAgb2JqDQo8PC9UeXBlIC9FeHRHU3RhdGUgL2NhIDAgPj4NCg0KZW5kb2JqDQo3IDAgb2JqDQo8PC9FeHRHU3Rh *\*\*\*removed remaining PDF encoding characters\*\*\**

# 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 | Mon – Fri  7am – 7pm | Cloverleaf and the Diagnostic Clinical applications teams | Thread protocol down –alert if interface connection is down for more than 10 minutes, repeat every 15 minutes, up to 3 times  Thread protocol in error –alert if interface connection is down for more than 10 minutes, repeat every 15 minutes, up to 3 times  High OBQueue Depth –alert if interface is backed up more than 10 messages for at least 10 minutes, repeating every 20 minutes up to 3 times. |

# Appendix A: Risks and Concerns

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Name** |  |  |  |
| **Number** | **Risk / Concern** | **Comment** | **Mitigation** |
| RC.2013.1.1  RC.2019.8.12  RC.2019.8.21 | Risk: Result that do not have provider information  Concern: large file sizes  Concern: not linking result to schedule | Provider’s MS Number must be present in Paceart system, and must match to Cerner alias in order to send the result to message center.  Missing provider number will also show ‘contributor system’ as provider name in PowerChart when hovering over results in Clinical Notes.  Messages greater than around 20 meg will take some time to process through Cloverleaf. Cerner’s max buffer size is set to 50 meg.  Office staff is not linking PaceArt results to GE schedules. This will prevent the appropriate identifiers from populating in the result and in turn, will not post to the correct location in Power Chart. | Team will ensure that all MS Numbers are present in Paceart system before the project goes live. In addition office staff will need to enter the correct provider (must be ordering) to link properly.  None, working as designed.  Office staff needs to be educated to link and complete a result from a GE schedule so the appropriate identifiers will populate on the results |

# 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