**Cerner to Soarian DFT Requirements**

**Version 1.5**

**Prepared By: Rich Allison & Sailaja Parimi**

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# **Document Control**

## Resources

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 4/20/2017 | Rich Allison | Originally Created |
| V1.1 | 5/31/2017 | Sailaja Parimi | Updated with Cerner process notes |
| V1.2 | 7/31/2017 | Rich Allison | Updated with Behavioral Health |
| V1.3 | 12/11/2017 | Tiffany Bohall | Updated the cerner\_soarf\_charges and cerner\_soarf\_ekg\_icd9\_dept\_cd tables to allow MDC location |
| V1.4 | 1/15/2018 | Tiffany Bohall | Updated IF statement logic to copy ‘performed by code’ (FT1.20) to Soarian for MPMDC technical and medication charges |
| V1.5 | 7/8/2019 | Tiffany Bohall | Hard code ‘ICD10-CM’ outbound in all iterations of FT1.19 (diagnosis code). |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

Cerner charges to Soarian

## 1.2 Project Scope

Send DFT charge transactions from Cerner to Soarian. Charges are Lab, Pharmacy and Other.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

**DFT** – Detail Financial Transaction; describes a financial transaction transmitted between the Order Filler and the Charge Processor.

**CERLAB** – Cerner Lab charge transactions

**CERPHARM** – Cerner Pharmacy charge transactions

**CEROTH** – All other charges transactions

**CG** – Charge message

**CD** – Credit message

### 1.3.2 Glossary

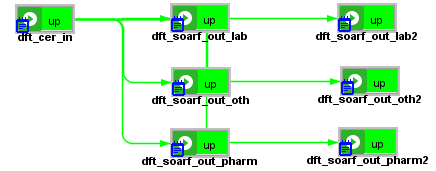
List the terms that require definition with respect to Cloverleaf and the product whose requirements are defined in this document. The definitions are specific to this document and may not be identical to the definitions of these terms in common use.

## 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

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.

|  |  |  |
| --- | --- | --- |
| **Cerner** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
|  |  |  |
| FR.2017.1.0 | DFT\_TCPIP\_SOARIAN\_OUT | Cerner real time charge Interface to Soarian |
| FR.2017.1.0 | Soarian Contributor System | Contributor System |
| FR.2017.1.2 | Soarian Contributor Source | Contributor Source |
| FR.2017.1.3 | Route Script update | Charges that are **NOT** of Ambulatory /Urge Care are processed through this interface. |
| FR.20.17.1.4 | Mod Object Script | 1. Code to skip non trigger P03s that are causing interface to fail, and record in msgview 2. Child script call to doc\_filter\_gen\_outv4 to filter doctor aliases on PV1 segment. |
|  |  |  |

## 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.2019.7.8 | Hard code ‘ICD10-CM’ in all iterations of FT1.19 from Cerner to Soarian | Due to a coding restraint on Soarian, the revenue cycle architect requested that within the interface, we hard code this value going to Soarian. |

## 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 From Cerner

* TCP MLLP Server Connection

### 3.3.2 Outbound to the Soarian

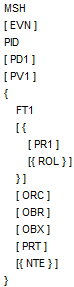
* TCP MLLP Server Connection

# 4. HL7 Messaging

## 4.1 Messaging Format

### 4.1.1 Segments

The segments utilized for this interface are:



*Message Construction Notes:*

*[Square Brackets] – Optional*

*{Curly Brackets} – Repeatable*

*MSH – Message Header*

*EVN – Event segment*

*PID – Patient ID segment*

*PV1 – Patient Visit segment*

*FT1 – Financial Transaction segment*

*PR1 – Procedures segment*

*ROL – Role segment*

*ORC – Common Order segment*

*OBR – Observation Request segment*

*OBX – Observation segment*

*PRT – Participation segment*

*NTE – Notes and Comments 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** |
| DFT^P03 | Post detailed financial transaction(s) |
|  |  |
|  |  |

### 4.1*.*3 Cloverleaf Configuration Files

cerner\_soarf\_dft.xlt

HL7 2.5.1/Soarian DFT\_P03 – Variant

trxCerSoarfChargeRoute – Purpose: To route cerner charge data to appropriate Soarian connections based

on the cost center in FT1.13 for load balancing. The facility and a port number come from the cerner\_soarf\_chrg\_route.tbl

cerner\_soarf\_chrg\_route.tbl

cerner\_soarf\_charges.tbl – Provides the Soarian gen org sys ID for each facility

cerner\_soarf\_ekg\_icd9\_dept\_cd.tbl – Identifies professional billing for ICD10 diagnosis codes to be sent to Soarian

### 4.1.4 Cloverleaf Site Location

Prod: soarf\_charge\_20\_p

Test: soarf\_charge\_20

## 4.2 Data Transformation Requirements

| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Data Type** | **Length** | **Notes** |
| --- | --- | --- | --- | --- | --- |
| Message Header | MSH | Y |  |  | All Data Passed as Received |
| Sending Facility | MSH.3 |  |  |  | IF FT1.13 eq LAB LBC or LAB LBO copy CERLAB to MSH.3  IF FT1.13 eq Phrm234 copy CERPHARM to MSH.3  ELSE copy CEROTH to MSH.3 |
| Event Segment | EVN | N |  |  |  |
| Event Type Code | EVN.1 |  |  |  | Copy P03 to EVN.1 |
| Recorded Date/Time | EVN.2 |  |  |  | Copy MSH.7 (DT/TM of Message) to EVN.2. Trim to 12 digits |
| Patient Identifier Segment | PID | Y |  |  |  |
| Patient Name | PID.5 |  |  |  | Copy Family, Given, Second and Suffix |
| Date/Time of Birth | PID.7 |  |  |  | Copy |
| Administrative Sex | PID.8 |  |  |  | Copy |
| Patient Account Number | PID.18 |  |  |  | Copy |
| Patient Visit | PV1 | N |  |  |  |
| Patient Type | PV1.18 |  |  |  | Set the servicing facility to match the patient type for ORL...  See FR.2017.4.0 |
| Servicing Facility | PV1.39 |  |  |  | @ServFac contains the servicing facility. Convert the facility ID to set the servicing facility to match the patient type for ORL |
| Financial Transaction | FT1 | Y |  |  |  |
| Transaction ID | FT1.2 |  |  |  | Copy  Cerner Mod object script has logic to correct the issue with post Cerner code upgrade 2015.19 issue - Modification to add the transaction ID for Credits from the Debit transaction with an exception to Pharmacy. |
| Transaction Date | FT1.4 |  |  |  | Copy Trim to 12 digits |
| Transaction Type | FT1.6 |  |  |  | CG for a charge, CD for a credit |
| Transaction Code – Identifier | FT1.7.0 |  |  |  | Copy |
| Transaction Code – Name of Coding Sys | FT1.7.2 |  |  |  | Send @ServFac thru table cerner\_soarf\_charges.tbl to derive the gen org sysid |
| Transaction Description | FT1.8 |  |  |  | NDC Quantity (identifies the Package Quantity of the drug administered). Copy to FT1.43.0 |
| Transaction Description - Alt | FT1.9 |  |  |  | NDC UOM. Copy to FT1.43.1 |
| Transaction Quantity | FT1.10 |  |  |  | Copy  Cerner Mod object script has code to calculate the billing quantity, price, NDC etc. when the 4th modifier is present. |
| Transaction Amount – Extended | FT1.11 |  |  |  | This field is only sent if FT1.13 is Pharm 234 |
| Department Code | FT1.13 |  |  |  | Derive the department code for professional billing  When this field has a value of “Phrm 234”, Cerner Mod object script has some logic to retrieve specific pharmacy data from the database to calculate the FT1-11 (net\_extended\_price). |
| Diagnosis Code | FT1.19 |  |  |  | IF professional billing copy FT1.19.  ELSE IF Behavioral Health facility copy FT1.19. Hard code ‘ICD10-CM’ to all FT1.19 instances. |
| Performed By Code | FT1.20 |  |  |  | Performed By Physician… IF  (FT1.#17.[0] eq =bhp\_p01 or mdt\_p01) FT1.21 ne @null && ~MSH.#3.[0] ne =CERLAB  Copy Performing Provider… FT1.#20.[0] to FT1.#20.[0].  Else, IF FT1.#20.[0] ne @null && ~MSH.#3.[0] ne =CERLAB  Copy Perforemd By ID Number…  FT1.#21.[0] to FT1.#20.[0]. |
| Assigning Authority | FT1.20.8 |  |  |  | Copy “183” |
| Identifier Type Code | FT1.20.12 |  |  |  | Copy “PRN” |
| Role – ROL | ROL.3.0 |  |  |  | Copy “PP” |
| Role Person – ID Number | ROL.4.0 |  |  |  | Copy “PP” |
| Role Person – Assigning Authority | ROL.4.8 |  |  |  | COPY “183” |
| Role Person – Identifier Type Code | ROL.4.12 |  |  |  | COPY “PRN” |
| Procedure Code Modifier | FT1.26 |  |  |  | Soarian can take up to 4 modifiers  Cerner Mod object script has coding for Pharmacy transactions to populate 4th modifier if the modifier count is greater than 3. |
| ABN Code – Identifier | FT1.27.0 |  |  |  | Copy to ORC.20.0 |
| NDC Code – Identifier | FT1.29.0 |  |  |  | Copy  Cerner mod object script has coding to populate NDC code; this field value will be cleared when there is no HCPCS, Cerner sends “NO HCPSC CODE’. |
| NDC Code – Original Text | FT1.29.8 |  |  |  | Cerner charge item ID  Copy to ORC.2.0 |
| Placer Order Number – Entity Identifier | ORC.2.0 |  |  |  |  |
| ABN Notice Code – Identifier | ORC.20.0 |  |  |  |  |
| ABN Date | ORC.32 |  |  |  | IF ORC.20.0 is not equal null Copy FT1.4 (Transaction Date) to ORC.32 |
| NDC Quantity | FT1.43.0 |  |  |  | Copy from FT1.8 |
| NDC UOM | FT1.43.1 |  |  |  | Copy from FT1.9 |

## 4.3 Sample Message

**Inbound from Cerner:**

MSH|^~\&|HNAM|CERNER|SOARIAN|BAYCARE|20190701141221||DFT^P03|Q4432182113T5825901350||2.3||||||8859/1

EVN|P03

PID|1|7000111545^^^BayCare MRN^MRN^SOARIAN|7000111545^^^BayCare MRN^MRN^SOARIAN~810123542^^^BayCare CMRN^Community Medical Record Number^SOARIAN||MPHDIAGTST^TWO^^^^^Current||19630430|M||White|420 LEAF ST^^Dunedin^FL^34698^USA^Home||(727)555-3452^PRN||EN|S||6000144784^^^BayCare FIN^FIN NBR^SOARIAN||||Non HIS or LAT|||0

PV1|1|O|ECHDM^^^MDC^^Ambulatory(s)^MDCDM||||MS005245^Tripodis^Stanton^P^^^^^BayCare Dr Number|||ECH|||||||MS005245^Tripodis^Stanton^P^^^^^BayCare Dr Number|O||T||||||||||||||||AHR|||MDC||Active|||20190628143100

FT1|1|30840621235|146658527|20190701140900|20190701141220|DEBIT|CM\_MPH9330602^MDC 2D Echo Complete TC^L|||1|0.00|0.00|MDXMPLLC^MDXMPLLC^HNAM\_COST|||ECHDM^^^MDC^^^MDCDM|mdt\_p01|O|R07.9^^ICD10||MS075855^Ucfd^Ucuhc^^^^^^BayCare Dr Number||15196475547^^^HNAM\_ORDERID||^MDC 2D Echo Complete TC||||^^^^^^^^30840621232

**Outbound to Soarian:**

MSH|^~\&|CEROTH|CERNER|SOARIAN|BAYCARE|20190701141221||DFT^P03|Q4432182113T5825901350|P|2.3||||||8859/1

EVN|P03|201907011412

PID|||||MPHDIAGTST^TWO||19630430|M||||||||||6000144784

FT1||30840621235||201907011409||CG|CM\_MPH9330602^^134095|||1|||||||||R07.9^^ICD10-CM|075855^^^^^^^^183^^^^PRN

ROL|||PP|PP^^^^^^^^183^^^^PRN

ORC||30840621232

# 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