**SSI to Soarian Bill Date Posting**

**Version 1.0**

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# **Document Control**

## Resources

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## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 2/8/2016 | Stephen Mattei | Originally Created |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

This document will define the relationship between SSI and Soarian regards to: means of transmission, inbound data format, outbound data format, data transformation and business logic.

## 1.2 Project Scope

We are integrating SSI and Soarian in respect to bill date records originating in SSI and being sent to Soarian. The end result being a comment posted to the customer’s account with the date of the payment.

## 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

Click here to enter text.

# 2. Diagram

N/A

# 3. Requirements

## 3.1 Functional Requirements

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| FR.2016.2.0 | Inbound record | Parse new line terminated and pipe delimited text file |
| FR.2016.2.1 | Outbound record | Create custom XML comment output with record per file |
| FR.2016.2.2 | Process input on demand | Cloverleaf will sweep the inbound directory every 20 seconds to see if there is anything to process |
| FR.2016.2.3 |  |  |

## 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.2016.2.0 | 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.

### 3.3.1 Inbound to the BayCare Cloverleaf from Vendor

* New line delimited Batch file FTP to Cloverleaf by Midrange Team
* IB directory: /sites/ftp\_data\_in/ssi/comments

### 3.3.2 Outbound from the BayCare Cloverleaf to Vendor

* XML via TCP Socket Connection to Soarian
* Production Connection
* IP: 64.46.229.11
* Port: 10112
* Test Connection
* IP: 64.46.231.206
* Port: 10112

# 4. Message Formatting

## 4.1 Messaging Format

Each inbound record is terminated by a new line with a pipe “|” separating each field.

### 4.1.1 Inbound Fields in Order

*Public Type Modified7M2*

*RecordCode As String 2 '1 - Record Code - must equal "7M"*

*CommentIndicator As String 1 '3 - "C" = freeform, "I" = account history*

*FantomSpace As String 1 '4 - this space is omitted in the spec*

*PatientNumber As String 12 '5 - requires leading 0's*

*SelfCheckDigit1 As String 1 '16*

*FileIndicator As String 1 '17 - "B" = bad debt, Blank = non specific*

*TransactionDate As String 6 '18 - format = MMDDYY, date cannot be in future*

*ServiceCode As String 7 '24*

*SelfCheckDigit2 As String 1 '31*

*Comment As String 126 '32*

*FantomSpace2 As String 1 '158 - this space is omitted in the spec*

*ReferralDate As String 6 '159 - format = MMDDYY, must be a future date*

*FacilityCode As String 3 '165*

*InOutPat As String 1 '168 - "I" or "O"*

*CrLf As String 2 '170*

### 4.1.2 XML Schema

<?xml version="1.0" encoding="UTF-8"?>

<!-- W3C Schema generated by XMLSpy v2014 rel. 2 sp1 (http://www.altova.com) -->

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:element name="generalComment">

<xs:complexType>

<xs:sequence>

<xs:element name="commentRequest" maxOccurs="unbounded">

<xs:complexType>

<xs:sequence maxOccurs="unbounded">

<xs:element name="source">

<xs:complexType>

<xs:sequence>

<xs:element name="sourceSystemName" type="xs:string" minOccurs="0"/>

<xs:element name="referenceIdentifier" type="xs:string" minOccurs="0"/>

<xs:element name="referenceDate" type="xs:string" minOccurs="0"/>

<xs:element name="referenceTime" type="xs:string" minOccurs="0"/>

<xs:element name="referenceUserIdentifier" type="xs:string" minOccurs="0"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="target">

<xs:complexType>

<xs:sequence>

<xs:element name="identifier" type="xs:string" minOccurs="0"/>

<xs:element name="type" type="xs:string" minOccurs="0"/>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="comment">

<xs:complexType>

<xs:sequence>

<xs:element name="code" type="xs:string" minOccurs="0"/>

<xs:element name="Text" type="xs:string" minOccurs="0"/>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:schema>

### 4.1*.*3 Cloverleaf Configuration Files

* VRL – ssi\_comment\_7m.vrl
* Translate – ssi\_to\_soarf\_cment\_7m\_billPost.xlt
* XML Schema – soarf\_codedComment.xsd

### 4.1.4 Cloverleaf Site Location

soarf\_comment

## 4.2 Outbound XML Data Transformation Requirements

| **Field Description** | **Required Y/N** | **Data Type** | **Notes** |
| --- | --- | --- | --- |
| Source System Name | Y | String | Defaulted to “SSI” |
| Reference Identifier | Y | String | Defaulted to “SSI CLAIM” |
| Reference Date | Y | String | Current Date Standard |
| Reference Time | Y | String | Current Time |
| Reference User Identifier | Y | String | Defaulted to “SSI” |
| Identifier | Y | String | Pulled from patient number in SSI record |
| Type | Y | String | Defaulted to “CLAIM” |
| Code | Y | String | Defaulted to “ZSS” |
| Comment Text | Y | String | Pulled from comment field in SSI record |
|  |  |  |  |

## 4.3 Sample Messages

### 4.3.1 Inbound Flat File

7MC|C||S154011100101|2|||020216|||SSI Billed UB BLUE CROSS ELECTRONIC Primary 02/02/16. TOTAL CHARGES: 581|||6A0|O|

7MC|C||S153411100101|2|||020216|||SSI Billed UB COMMERCIAL ELECTRONIC Primary 02/02/16. TOTAL CHARGES: 1924.73|||5A0|O|

### 4.3.2 Outbound XML File

<commentRequest>

<source>

<sourceSystemName>SSI</sourceSystemName>

<referenceIdentifier>SSI CLAIM</referenceIdentifier>

<referenceDate>2016/02/05</referenceDate>

<referenceTime>20:09:00.000000</referenceTime>

<referenceUserIdentifier>SSI</referenceUserIdentifier>

</source>

<target>

<identifier>S111101100101</identifier>

<type>CLAIM</type>

</target>

<comment>

<code>ZSS</code>

<Text>SSI 02/05/2016 Total Charges: 52.00 Carrier Name: WELLCARE HMO, INC. Carrier Reference Number: 007360216-2143170640 Medical Rec Number: 2105694413 Service Start Date: 01/28/2016 Service End Date: 01/28/2016 Status Code: A1:20 Edit Text: Received - Accepted for processing</Text>

</comment>

</commentRequest>

# **5. Testing**

## 5.1. Unit Testing Scenarios

|  |  |
| --- | --- |
| **Scenario** | **Expected Result** |
| Parse Inbound File | Each field should be parsed correctly without error |
| Xlate | Xlate should transform the IB record into XML without error |
|  |  |

## 5.2 Integrated Testing Scenarios

|  |  |
| --- | --- |
| **Scenario** | **Expected Result** |
| Validate Output in Soarian | Should post without error is Soarian and be visible to the end user |
|  |  |

## 5.3 Testing Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Phase** | **Date** | **Department** | **Team Member** |
| PH1.UNIT |  |  |  |
| PH1.INTEGRATED |  |  |  |

### 

## 5.4 Piloting

List the facilities and associated networks in scope for pilot testing.

* End of document