**CAPIO to Soarian Buy/Reject XML Coded Comments Interface**

**Version 1.0**

**Prepared By: Levy Lazarre**

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# **Document Control**

## Resources

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|  |  |  |

## Project Distribution List

## Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Modifier** | **Description** |
| V1.0 | 8/20/2018 | Levy Lazarre | Originally Created |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

This document will outline the XML Buy/Reject interface between CAPIO and Soarian including: means of transmission, inbound data format, outbound data format, data transformation and business logic.

## 1.2 Project Scope

BayCare periodically supplies a file to CAPIO to work SBO BC PT Collection accounts. CAPIO reviews the file and submits the accounts to a selection process. They will buy some accounts from BayCare to enter their collection pool; they will reject the rest for specific reasons. CAPIO will then return an acknowledgment (response) file to BayCare indicating which accounts are “buys”, which ones are “rejects”, and the reason why the accounts were rejected.

BayCare receives a pipe-delimited flat file from CAPIO via sftp. The file is sent to Cloverleaf, which transforms each input line into an XML message that is interfaced to Soarian Financials via MLLP interface. This allows the triggering of necessary processes in Soarian Provider Accounting to write off accounts that CAPIO buys.

**At the time of this writing, the file transfer from CAPIO is expected to be a quarterly process.**

## 1.3 Terminology Standards

### 1.3.1 Acronyms

**RcvGrp-BlPer** – receivable group combined with the billing period

### 1.3.2 Glossary

**Reference Date / Time** – date / time the comment is posted in Soarian

## 1.4 Document References

CAPIO Coded Comment Interface Assessment.docx

# *2.* Diagram

# 3. Requirements

## 3.1 Functional Requirements

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| FR.2018.2.0 | Inbound record | Parse new line terminated, pipe delimited text file |
| FR.2018.2.1 | Outbound record | Create custom XML comment output for each record in input file |
| FR.2018.2.2 | Process input on demand | Cloverleaf will sweep the inbound directory every 120 seconds to see if there is anything to process. |
| FR.2018.2.3 | Translate CAPIO status codes  to Soarian Comment codes | CAPIO sends for each “buy” or “reject” record a code that must be translated to a custom Soarian code based on the CAPIO **Code** and the CAPIO **Reason**. Logic is provided by the CBO. |

## 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 files FTP to Cloverleaf by Midrange Team
* IB directory: /sites/ftp\_data\_in/capio/buy\_reject

### 3.3.2 Outbound from the BayCare Cloverleaf to Vendor

* XML via TCP Socket Connection to Soarian
* Production Connection
* IP: 64.46.218.224
* Port: 10112
* Test Connection
* IP: 64.46.236.180
* 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

Input File: Each line has the following fields:

Code|RcvOwner|RcvGrp-BlPer|Reason

Code = The CAPIO Code for this record (**CAPIOBUY** or **CAPIOREJEC**T)

RcvOwner = The Receivable Group Owner

RcvGrp-BlPer = The Receivable Group – Billing Period Combination

Reason = The CAPIO explanation why the record was bought or rejected.

### 4.1.2 XML Schema

We do not make any reference to an XML schema in this integration since no Xlate was used. **The interface is coded using a TCL script only.**

Logic provided by the CBO to compute the **Code** and the **Comment Text** to send to Soarian:

When the code is CAPIOBUY the <code> is ‘CAPIOBUY’ and the <Text> is ‘Capio Buy – RcvGrp-BlPer’ When the code is CAPIOREJECT and the Reason is OTHER the <code> is ‘CAPIOREJECT’ and the <Text> is ‘Capio Reject - RcvGrp-BlPer’

When the code is CAPIOREJECT and the Reason is MINOR the <code> is ‘CAPIOMINOR’ and the <Text> is Capio Reject Minor No Guarantor – RcvGrp-BlPer’

When the code is CAPIOREJECT and the Reason is BANKRUPTCY the <code> is ‘CAPIOBANKRUPTCY’ and the <Text> is ‘Capio Reject Bankruptcy – RcvGrp-BlPer’ When the code is CAPIOREJECT and the Reason is DECEASED <code> is ‘CAPIODECEASED’ and the <Text> is ‘Capio Reject Deceased – RcvGrp-BlPer’

### 4.1*.*3 Cloverleaf Configuration Files

TCL tpsCapio\_Soarf\_buyouts\_xml\_comments.tcl

* TCL tps\_drop\_header.tcl

### 4.1.4 Cloverleaf Site Location

soarf\_comment\_21\_p

## 4.2 Outbound XML Data Transformation Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Description** | **Required Y/N** | **Data Type** | **Notes** |
| Source System Name | Y | String | Defaulted to “CodedCommentInterface” |
| Reference Identifier | Y | String | Defaulted to “CodedComments” |
| Reference Date | Y | String | Current Date, in standard XML format |
| Reference Time | Y | String | Current Time, in standard XML format |
| Reference User Identifier | Y | String | Defaulted to “RMGI Coded Coded Comment Process” |
| Identifier | Y | String | Pulled by scripting from  **RcvGrp-BlPer** input variable by splitting the field on the “-“ and taking the first component (RcvGrp). |
| Type | Y | String | Defaulted to “RcvGrp” (Receivable Group) |
| Code | Y | String | Capio Code translated to Soarian comment code via logic provided by the CBO and shown above. |
| Comment Text | Y | String | Obtained by computation based on the Capio Code and the Capio Reason using the CBO-provided logic. |

## 4.3 Sample Messages

### 4.3.1 Inbound Flat File from CAPIO

CAPIOREJECT|I Bardmr|354094-1|DECEASED CAPIOREJECT| Morton|1100056-1|MINOR CAPIOREJECT|I Carr| 1025059-2|BANKRUPTCY CAPIOREJECT|Axelrod|484956-1|OTHER CAPIOBUY|SF Bapt|239807-1|OTHER

### 4.3.2 Outbound XML messages to Soarian Financials

<commentRequest>

<source>

<sourceSystemName>CodedCommentInterface</sourceSystemName>

<referenceIdentifier>CodedComments</referenceIdentifier>

<referenceDate>2018/08/20</referenceDate>

<referenceTime>13:38:00.000000</referenceTime>

<referenceUserIdentifier>RMGI Coded Coded Comment Process</referenceUserIdentifier>

</source>

<target>

<identifier>354094</identifier>

<type>RcvGrp</type>

</target>

<comment>

<code>CAPIODECEASED</code>

<Text>Capio Reject Deceased - 354094-1</Text>

</comment>

</commentRequest>

<commentRequest>

<source>

<sourceSystemName>CodedCommentInterface</sourceSystemName>

<referenceIdentifier>CodedComments</referenceIdentifier>

<referenceDate>2018/08/20</referenceDate>

<referenceTime>13:38:00.000000</referenceTime>

<referenceUserIdentifier>RMGI Coded Coded Comment Process</referenceUserIdentifier>

</source>

<target>

<identifier>1100056</identifier>

<type>RcvGrp</type>

</target>

<comment>

<code>CAPIOMINOR</code>

<Text>Capio Reject Minor No Guarantor - 1100056-1</Text>

</comment>

</commentRequest>

<commentRequest>

<source>

<sourceSystemName>CodedCommentInterface</sourceSystemName>

<referenceIdentifier>CodedComments</referenceIdentifier>

<referenceDate>2018/08/20</referenceDate>

<referenceTime>13:38:00.000000</referenceTime>

<referenceUserIdentifier>RMGI Coded Coded Comment Process</referenceUserIdentifier>

</source>

<target>

<identifier>1025059</identifier>

<type>RcvGrp</type>

</target>

<comment>

<code>CAPIOBANKRUPTCY</code>

<Text>Capio Reject Bankruptcy - 1025059-2</Text>

</comment>

</commentRequest>

<commentRequest>

<source>

<sourceSystemName>CodedCommentInterface</sourceSystemName>

<referenceIdentifier>CodedComments</referenceIdentifier>

<referenceDate>2018/08/20</referenceDate>

<referenceTime>13:38:00.000000</referenceTime>

<referenceUserIdentifier>RMGI Coded Coded Comment Process</referenceUserIdentifier>

</source>

<target>

<identifier>484956</identifier>

<type>RcvGrp</type>

</target>

<comment>

<code>CAPIOREJECT</code>

<Text>Capio Reject - 484956-1</Text>

</comment>

</commentRequest>

<commentRequest>

<source>

<sourceSystemName>CodedCommentInterface</sourceSystemName>

<referenceIdentifier>CodedComments</referenceIdentifier>

<referenceDate>2018/08/20</referenceDate>

<referenceTime>13:38:00.000000</referenceTime>

<referenceUserIdentifier>RMGI Coded Coded Comment Process</referenceUserIdentifier>

</source>

<target>

<identifier>239807</identifier>

<type>RcvGrp</type>

</target>

<comment>

<code>CAPIOBUY</code>

<Text>Capio Buy - 239807-1</Text>

</comment>

</commentRequest>

# **5. Testing**

## 5.1. Unit Testing Scenarios

|  |  |
| --- | --- |
| **Scenario** | **Expected Result** |
| Parse Inbound File | Each field should be parsed correctly without error. |
| TCL script | Script 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 in Soarian and be visible to the end user. |
|  |  |

## 5.3 Testing Approvals

|  |  |  |  |
| --- | --- | --- | --- |
| **Testing Phase** | **Date** | **Department** | **Team Member** |
| PH1.UNIT | 07/19/2018 | CBO | Margaret Chen |
| PH1.INTEGRATED |  |  |  |

### 

## 5.4 Piloting

Go-live date: 08/23/2018

* End of document