**SIU from Tavoca to Soarian Web Service**

**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 | 4/28/2017 | Stephen Mattei | Originally Created |
| V1.2 | 5/9/18 | Stephen Mattei | Additional information added |
|  |  |  |  |
|  |  |  |  |

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to outline the scheduling (SIU) interface requirements for the integration between Tavoca patient reminder system and Soarian scheduling web services.

## 1.2 Project Scope

The Tavoca application generates automated patient appointment reminders. Appointment data is batch and sent to Tavoca from Soarian and responses in the form of appointment cancelation requests are delivered back to Soarian. The engine is only involved with the return interface from Tavoca. The return cancelation SIU interface is the focus of this document. That interface will consist of an inbound real time HL7 MLLP interface from Tavoca which will be translated to XML and posted to a web services exposed by Soarian scheduling.

.

## 1.3 Terminology Standards

### 1.3.1 Acronyms

**SIU** – HL7 scheduling message type

### 1.3.2 Glossary

Click here to enter text.

## 1.4 Document References

# 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.

|  |  |  |
| --- | --- | --- |
| **Cloverleaf** |  |  |
| **Number** | **Requirement Name** | **Requirement Description** |
| FR.2017.04.28 | Translate HL7 SIU to Proprietary XML |  |
| FR.2017.04.28 | Post XML Cancel Appointment Transaction to Soarian Web Service |  |
| FR.2017.04.28 | All inbound messages from Tavoca will be considered cancel messages |  |

## 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.2016.11.17 | 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 Socket Connection

### 3.3.2 Outbound from the BayCare Cloverleaf

* Web Services Post

# 4. HL7 Messaging

## 4.1 Messaging Format

### 4.1.1 Segments

The segments utilized for this interface are:

MSH

SCH

PID

*Message Construction Notes:*

*[Square Brackets] – Optional*

*{Curly Brackets} – Repeatable*

*MSH – Message Header*

*SCH – Scheduling Data*

*PID – Patient ID 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** |
| S15 | Appointment Cancelation |
|  |  |
|  |  |

### 4.1*.*3 Cloverleaf Configuration Files

tvca\_soars\_siuXml\_ws.xlt

### 4.1.4 Cloverleaf Site Location

soars\_siu\_29

## 4.2 Inbound Record Layout

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Description** | **HL7 Field Loc.** | **Required Y/N** | **Notes** |
| Field Separator | MSH:1 | Y | “|” |
| Encoding Characters | MSH:2 | Y | “^~\&” |
| Sending Application | MSH:3 | Y | “TAVOCA” |
| Sending Facility | MSH:4 | Y | *Facility name* |
| Receiving Application | MSH:5 | Y | SOARIAN |
| Receiving Facility | MSH:6 | Y | *Facility name* |
| Date Time of Message | MSH:7 | Y | *Standard HL7 Date Time to Seconds* |
| Message Type | MSH:9 | Y | “SIU^S15” |
| Message Control ID | MSH:10 | Y | *Unique ID* |
| Version ID | MSH:12 | Y | 2.6 |
| Set ID | PID:1 | Y | “1” |
| Patient Primary ID | PID:3 | Y | *CPI to be passed in this field* |
| Patient Name | PID:5 | Y | *Patient First and Last name* |
| Patient Account \ Financial Number | PID:18 | Y | *FIN to be passed in this field* |
| Appointment ID | SCH:1 | Y | Soarian appointment ID |
| Event Reason ID | SCH:6.1 | Y | Reason code (must match Soarian) |
| Description | SCH:6.2 | Y | Reason Description |
| Cancel Comment | NTE:3.1 | N | Comment reason as to why canceled |
|  |  |  |  |
|  |  |  |  |

## 4.3 Inbound Sample Message

MSH|^~\&| TAVOCA |<*facility name her>}*|SOARIAN|<*facility name here>*|20170420074701|SIU^S15|<*unique ID here*>||2.6

PID|1||301168520||PCTOUCH^TEN||| || ||| || | ||3466277

SCH|123456|||||*<reason code>*^*<reason description>*|

NTE|1||*<additional comment>*|

## 4.4 Outbound Record Layout

|  |  |  |  |
| --- | --- | --- | --- |
| **Xml Tag Name \ address** | **Data Type** | **Mapped From** | **Notes** |
| tns:cancelAppointment.tns:cancelAppointmentInput.appointmentIdentifier.#text | String | SCH:1 |  |
| tns:cancelAppointment.tns:cancelAppointmentInput.cancellationReasonCode.#text | String | SCH:6.1 |  |
| tns:cancelAppointment.tns:cancelAppointmentInput.cancellationReasonDescription.#text | String | SCH:6.2 |  |
| tns:cancelAppointment.tns:cancelAppointmentInput.cancellationCommentText.#text | String | SCH:6.2 |  |
| tns:cancelAppointment.userName.#text | String | N/A | Hard Coded to TAVOCA |
| tns:cancelAppointment.context.0(0).infra:name.#text | String | N/A | Hard Coded to TAVOCA |
| tns:cancelAppointment.context.0(0).infra:requestDateTime.#text | DT | N/A | Time is derived from system standard variable @time and formatted to standard XML time format |
| tns:cancelAppointment.context.0(0).infra:requestTimeZone.#text | String | N/A | This is defaulted to “America/New\_York” for eastern time zone |
| tns:cancelAppointment.context.0(0).infra:enterpriseIdentifier.#text | String | N/A | Hard Coded to w0a5 which stands for the baycare user ID |
| tns:cancelAppointment.context.0(0).infra:environmentInstanceIdentifier.#text | String | N/A | This is the environment variable that is either set to test or prod |
| cancelAppointment.context.0(0).infra:application.#text | String | N/A | Hard Coded to TAVOCA |
| tns:cancelAppointment.context.0(0).infra:applicationVersion.#text | String | N/A | Hard Coded to “1” |
| tns:cancelAppointment.context.0(0).infra:correlationIdentifier.#text | String | N/A | Clock seconds are used to create a unique message ID. Clock seconds are set to precision down to the millisecond |
| tns:cancelAppointment.context.0(0).infra:requestingUserName.#text | String | N/A | Hard Coded to TAVOCA |

## 4.5 Outbound Sample Message

<soapenv:Envelope xmlns:app="http://cerner.com/soarian/appointment/V3/Appointment" xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:v2="http://cerner.com/soarian/infrastructure/V2">

<soapenv:Header>

<wsse:Security soapenv:mustUnderstand="1" xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">

<wsse:UsernameToken>

<wsse:Username>W0A5\_SchdWebSvc</wsse:Username>

<wsse:Password type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#PasswordText">baycS2ws0410</wsse:Password>

</wsse:UsernameToken>

</wsse:Security>

</soapenv:Header>

<soapenv:Body>

<tns:cancelAppointment xmlns:tns="http://cerner.com/soarian/appointment/V3/Appointment" xmlns:infra="http://cerner.com/soarian/infrastructure/V2">

<tns:cancelAppointmentInput>

<appointmentIdentifier>7461021</appointmentIdentifier>

<cancellationReasonCode>TT</cancellationReasonCode>

<cancellationReasonDescription>Canceled by Tavoca</cancellationReasonDescription>

<cancellationCommentText>Canceled by Tavoca</cancellationCommentText>

</tns:cancelAppointmentInput>

<userName>TAVOCA</userName>

<context>

<infra:name>TAVOCA</infra:name>

<infra:requestDateTime>2018-05-02T18:07:00.000</infra:requestDateTime>

<infra:requestTimeZone>America/New\_York</infra:requestTimeZone>

<infra:enterpriseIdentifier>w0a5</infra:enterpriseIdentifier>

<infra:environmentInstanceIdentifier>test</infra:environmentInstanceIdentifier>

<infra:application>TAVOCA</infra:application>

<infra:applicationVersion>1</infra:applicationVersion>

<infra:correlationIdentifier>1525298850597</infra:correlationIdentifier>

<infra:requestingUserName>TAVOCA</infra:requestingUserName>

</context>

</tns:cancelAppointment>

</soapenv:Body>

</soapenv:Envelope>

# 5. Deployment / Implementation Model

BOX was created for the solution but some components are not copied up with the BOX.

## 5.1 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.2016.11.17 | Soarian Platform Changes Without Notification | Soarian commonly makes platform modifications that result in changes to input and output parameters that could potentially impact the functionality of this interface. | | Soarian team has been made aware of the risk and informed that the release notes for each new patch \ major version will need to be reviewed with this interface in mind. | |  |  |  |

# 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