Medical Care Collections Fund (MCCF) eBilling

Electronic Data Interchange (EDI)

Transactions Applications Suite (TAS)

Interface Control Document

For the interface between MCCF EDI TAS and

the Financial Service Center

ASC X12N/005010 277RFAI Health Care Claim Request

for Additional Information

Logo for the Department of Veterans Affairs, Office of Information and Technology, Product Development, including the official seal of the Department of Veterans Affairs


Department of Veterans Affairs

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# Introduction

This document describes the interface between an MCCF EDI TAS application and the VA Financial Services Center in Austin, TX (FSC) related to the electronic processing of ASC X12N/005010 277RFAI Health Care Claim Request for Additional Information message.

## Purpose

The purpose of this Interface Control Document (ICD) is to define the message structure and protocols which govern the interchange of data between the FSC and eBilling within MCCF EDI TAS related to the electronic processing of ASC X12N/005010 277RFAI Health Care Claim Request for Additional Information messages.

## Scope

This ICD specifies the interface between FSC and MCCF EDI TAS eBilling. This document provides details on the functional, performance, operational, and design requirements for the interface. This document defines the layouts for the data that MCCF EDI TAS eBilling receives from FSC. This document is intended for all parties requiring such information, including business stakeholders, business analysts, software developers, system designers, testers, and anyone else responsible for implementing this interface.

## System Identification

MCCF EDI TAS eBilling is a software stack designed to support the request/inquiries and responses related to health care services claims and encounter reviews. This interface supports the electronic transmission of ASC X12N/005010 277RFAI Health Care Claim Request for Additional Information between FSC and MCCF EDI TAS eBilling.

### MCCF EDI TAS eBilling

The TAS Platform will modernize and automate the business processes used currently as part of the VA revenue cycle. This includes insurance verification, billing and claims processing, payment, and remittance. These processes are tied to other processes that are out of scope, including documenting the care provided, coding treatment and encounters, and sending claims and receiving remittance to and from the VA Health Care Clearinghouse(HCCH).

|  |  |
| --- | --- |
| System | Details |
| Title | tbd |
| Abbreviation | tbd |
| Version number | tbd |
| Release number | tbd |
| Point of Contact | tbd |
| Vendor [optional] | tbd |

## 

The system(s) at FSC, receive(s) the data from payers as a standard ASC X12N/005010 277RFAI Health Care Claim Request for Additional Information transmission and send(s) that data as FHIR data to MCCF EDI TAS.

### FSC

|  |  |
| --- | --- |
| System | Details |
| Title | tbd |
| Abbreviation | tbd |
| Version number | tbd |
| Point of Contact | tbd |
| Vendor [optional] | tbd |

## Operational Agreement

This ICD provides the specification for an interface between FSC and MCCF EDI TAS eBilling ASC X12N/005010 277RFAI Health Care Claim Request for Additional Information data. The Chief Business Office (CBO) is responsible for notifying FSC personnel of any potential or planned changes to data feeds once these changes are known in order to minimize adverse impacts.

# Interface Definition

277RFAI Health Care Claim Request for Additional Information data is transmitted between FSC and MCCF EDI TAS eBilling in FHIR bundles.

# System Overview

MCCF EDI TAS eBilling is designed to facilitate transmission of Health Care Claim Request for Additional Information from the FSC.

# Overview Diagram

Interim solution



Figure 1 - Interim Solution

To be solution



Figure 2 - To Be Solution

# Interface Overview

The messages exchanged between FSC and MCCF EDI TAS eBilling can be done in real time or as queued messaging.

# Connectivity between the systems



Figure 3 - Connectivity

# Operations

# Data Extraction

Tbd

# Data Transformation

Tbd

# Sending/Receiving

FSC sends FHIR data to MCCF EDI TAS.

# Data Transfer

Data is transferred between the FSC and the TASCore Application Stack.

# Transaction Types

FSC receives ASC X12N/005010 277RFAI Health Care Claim Request for Additional Information from HCCH and forwards that data to MCCF EDI TAS as a FHIR Bundle containing necessary FHIR resources.

# Data Exchanges

# FHIR Based Resources

The following FHIR resources in a Bundle are expected from FSC for the 277RFAI transaction

* Basic
* Claim
* CommunicationRequest
* Location
* MessageHeader
* Organization
* Person
* Practitioner
* Patient

Refer to Appendix A.

# JSON Format

Messages are formatted using the JSON format and implement a Bundle FHIR Resource.

Refer to <https://www.hl7.org/fhir/json.html> for JSON representation of FHIR Resources.

# Bundle Definition

A Bundle is a top-level container in FHIR that contains all the FHIR resources desired for a transaction between MCCF EDI TAS and FSC.

A Bundle is a container for resources, enabling you to group and transmit resources altogether at once. Resources such as Claim, Patient, etc. will be transmitted inside multiple entries (see entry list inside Bundle) as a resource type.



Figure 4 - FHIR Bundle

Source https://fhir-drills.github.io/bundle.html



Figure 5 - FHIR Bundle JSON

Source https://www.hl7.org/fhir/bundle.html

# Communications Methods

# Ports and Protocols

# HTTP(S)

Used for real time communication.

# AMQP

AMQP offers reliable messaging via queues.

# ESB Configuration(s)

Tbd

# System Configuration

Tbd

# Performance Requirements

Refer to MCCD EDI TAS SDD <https://vaww.oed.portal.va.gov/pm/hape/ipt_5010/EDI_Portfolio/TASCore/MCCF_EDI_TAS_System_Design_Document_v0.7.pdf>

# Security

Refer to MCCD EDI TAS SDD <https://vaww.oed.portal.va.gov/pm/hape/ipt_5010/EDI_Portfolio/TASCore/MCCF_EDI_TAS_System_Design_Document_v0.7.pdf>

# Testing Requirements

1. Connectivity/Secuirity
2. End to End
   1. There might be 2 different End to End test run at different times.
3. Regression testing/Error handling
4. Volume testing
   1. Performance testing
   2. Endurance testing
   3. Load testing
5. Smoke testing

# Comparison of Data

Testing the FHIR conformance will be based on <https://www.hl7.org/fhir/validation.html>.

Business Rules will have to be specifically defined in user stories by the product team (TAS).

* Which fields are mandatory from a business perspective?
* Data integrity.
  + There are different approaches that TASCore can employ to test data integrity, depending on future user stories and tasks that will define requirements:
    - Comparing the source data with the output data.
    - Parallel testing: Run data through existing data flow and through the new data flow and make sure data match.
    - Conformance testing (FHIR)
    - Data conformity to business specs
      * Date format
      * Decimal places
      * Currency notations
      * Etc.
* Error handling

# Completeness

Tests defined in section 2.10.1 must cover all the FHIR resources that are defined in section 2.6.1 in consideration of any functional user story.

# Load Testing

Bench mark tests must be performed based on individual use case requirements.

# Policies and Constraints

# HIPAA Compliance

FSC receives transactions in standard ASC X12N/005010 Request for Additional Information (277RFAI) messages from outside sources.

It is assumed that those messages are HIPPA compliant.

# Appendix A

# Data Elements

Data being exchanged between TAS and FSC will be formatted in FHIR using the JSON notation. Data elements are mapped into fields in FHIR resources. FHIR resources will be located inside a FHIR bundle.

# Bundle

Repeating fields within a segment need context definition so they can be differentiated within a segment. Also, repeating fields across multiple segments need to be differentiated. Following steps have been used to assign context to fields.

1. Identify the segment where the resource is located (Bundle.entry.extension.url="segment" and Bundle.entry.extension.valueString="277RFAI-MSH") [MessageType-Segment]
2. Where elements repeat within a segment use extension.valueString to identify field (Basic.extension.url="sequence", Basic.extension.valueString="277RFAI-MSH-15") [MessageType-Segment-Field]
3. Repeating segments will include an incrementing id (CTD1, CTD2, ...).

Following JSON file describes the 277RFAI bundle.



# Resource Sections

The following FHIR resources in a Bundle are expected for a 277RFAI transaction from FSC to MCCF EDI TAS

# Basic

See Basic resource in Bundle included in section 3.2

# Claim

See Claim resource in Bundle included in section 3.2

# CommunicationRequest

See CommunicationRequest resource in Bundle included in section 3.2

# Location

See Location resource in Bundle included in section 3.2

# MessageHeader

See MessageHeader resource in Bundle included in section 3.2

# Organization

See Organization resource in Bundle included in section 3.2

# Person

See Person resource in Bundle included in section 3.2

# Practitioner

See Practitioner resource in Bundle included in section 3.2

# Patient

See Patient resource in Bundle included in section 3.2

# Mapping Sheet



# Appendix B - TASCore Mapping Rules

Tbd

# Appendix C – TASCore Default Values

Tbd

# Appendix D – FSC Mapping Rules

Tbd

# Appendix E – FSC Default Values

See mapping sheet section 3.4

# Appendix F - Glossary

| **Term** | **Meaning** |
| --- | --- |
| AMQP - Advanced Message Queuing Protocol | The *Advanced Message Queuing Protocol* (*AMQP*) is an open standard for passing business messages between applications or organizations using queues. |
| HCCH | Health Care Clearing House |
| REST - REpresentational State Transfer | REpresentational State Transfer, or RESTful web services provide interoperability between computer systems on the Internet or other network. Sometimes spelled ReST. |

# Attachment A – Approval Signatures

This section is used to document the approval of the ICD. The review should be conducted face to face where signatures can be obtained during the review. If unable to conduct a face-to-face meeting then it should be held via Lync and concurrence captured during the meeting. The Scribe should add /es/name by each position cited.

By signing below, I agree that I have reviewed and agree the document is approved.

