Medical Care Collections Fund (MCCF) eBilling

Electronic Data Interchange (EDI)

Transactions Applications Suite (TAS)

Interface Control Document

ASC X12N/005010 277CA Health Care

Claim Acknowledgement

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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Version 1

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# Introduction

This document describes the interface between a MCCF EDI TAS application and the VA Financial Services Center in Austin, TX (FSC) related to the electronic processing of ASC X12N/005010 277CA Health Care Claim Acknowledgement messages.

## Purpose

The purpose of this Interface Control Document (ICD) is to define the message structure and protocols which govern the interchange of data between eBilling within MCCF EDI TAS and the VA Financial Services Center (FSC) related to the electronic processing of

* ASC X12N/005010 277CA Health Care Claim Acknowledgement transactions.

## Scope

This ICD specifies the interface between MCCF EDI TAS eBilling and FSC. This document provides details on the functional, performance, operational and design requirements for the interface. This document defines the layouts for the data that the FSC receives from MCCF EDI TAS eBilling. This document is intended for all parties requiring such information, including business stakeholders, end-users, 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 processing of claim, request/inquiries and responses related to health care services claims and encounter reviews. This interface supports the electronic transmission and reception of various EDI transactions including the ASC X12N/005010 277CA Health Care Claim Acknowledgement between MCCF EDI TAS eBilling and FSC.

The 277CA messages are initially received from payers and mapped by FSC where they are translated from ASC X12N/005010 Health Care Claim Acknowledgement 277CA to FHIR resources inside a FHIR bundle and transmitted to MCCF EDI TAS eBilling.

### MCCF EDI TAS eBilling

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

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 clearinghouse.

This interface supports the electronic third party billing process which involves the electronic transmission of ASC X12N/005010 277CA Health Care Claim Acknowledgement from the insurance company or payer.

### FSC

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

The system(s) at FSC, receives the data from the insurance company or payer, translates the standard ASC X12N/005010 277CA Health Care Claim Acknowledgement message into a FHIR bundle with the FHIR resources representing the 277CA data and sends that bundle to the MCCF EDI TAS eBilling system to update the claim record.

## Operational Agreement

This ICD provides the specification for an interface between MCCF EDI TAS eBilling and FSC regarding ASC X12N/005010 277CA Health Care Claim Acknowledgement 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

Health Care Claim Acknowledgement (277CA) data is transmitted between MCCF EDI TAS IB and the FSC in FHIR bundles.

## System Overview

The MCCF EDI TAS eBilling module is designed to receive Health Care Claim Acknowledgement 277CA transactions from the FSC.

FSC is designed to receive ASC X12N/005010 277CA Health Care Claim Acknowledgement transactions from payers and to translate that data into FHIR resources for processing in MCCF EDI TAS eBilling.

### Overview Diagram

Interim solution



To be solution



## Interface Overview

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

### Connectivity between the systems



## Operations

Tbd

### Data Extraction

Tbd

### Data Transformation

Tbd

### Sending/Receiving

MCCF EDI TAS receives FHIR resources in a bundle from FSC that were derived from receipt of a ASC X12N/005010 277CA Health Care Claim Acknowledgement from a payer.

## Data Transfer

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

## Transaction Types

FSC receives ASC X12N/005010 277CA Health Care Claim Acknowledgement from Payers and forwards that to MCCF EDI TAS eBilling as a translated FHIR Bundle containing necessary FHIR resources.

## Data Exchanges

MCCF EDI TAS receives a FHIR bundle from FSC, representing the ASC X12N/005010 277CA Health Care Claim Acknowledgement from a payer,

Refer to Section Appendix A.

### FHIR Based Resources

The following FHIR resources in a Bundle are expected from FSC to respond to the 277CA

* Basic
* Claim
* ClaimResponse
* CommunicationRequest
* EpisodeOfCare
* MessageHeader
* OperationOutcome
* Organization
* Patient
* RelatedPerson

### 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.

#### 277CA FHIR bundle

A bundle implementing a 277CA sent by FSC to MCCF EDI TAS eBilling will have the following structure:

See appendix A.

### Bundle Definition

A Bundle is a container for resources, enabling one 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.

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.



Figure 1 - Source https://fhir-drills.github.io/bundle.html



Figure 2 - 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

System Design Document (SDD); Medical Care Collection Fund (MCCF) - Electronic Data Interchange Transaction Application Suite (EDI TAS) Section and Page or Paragraph if needed.

## Security

System Design Document (SDD); Medical Care Collection Fund (MCCF) - Electronic Data Interchange Transaction Application Suite (EDI TAS) Section and Page or Paragraph if needed.

### Is within the VA firewall

Tbd

## Testing Requirements

System Design Document (SDD); Medical Care Collection Fund (MCCF) - Electronic Data Interchange Transaction Application Suite (EDI TAS) Section and Page or Paragraph if needed.

### Comparison of Data

Tbd

### Completeness

Tbd

## Policies and Constraints

Tbd

### HIPAA Compliance

FSC receives standard ASC X12N/005010 277CA Health Care Claim Acknowledgement transactions from payers and translates them into a FHIR Bundle with FHIR resources and transmits that to MCCF EDI TAS eBilling. It is assumed that those messages are HIPPA compliant.

# Appendix A

## Data Elements

## 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="278-EVN") [MessageType-Segment]

2. Where elements repeat within a segment use extension.valueString to identify field (Basic.extension.url="sequence" and Basic.extension.valueString="278-MSH-16" or Location.identifier.extension.url="sequence" and Location.identifier.extension.valueString="278-MSH-3") [MessageType-Segment-Field]

3. Repeating segments will include an incrementing id (MSA1, MSA2, ...)



Figure 3 Source: http://www.hl7.org/fhir/bundle.html

## Resource Sections 1..N

### Basic

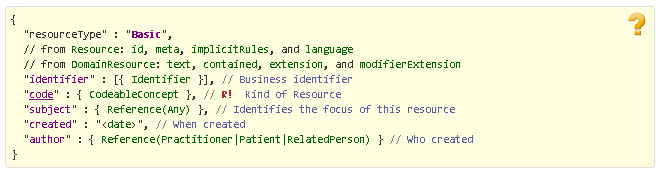


Figure 4 Source http://www.hl7.org/fhir/basic.html

### Claim

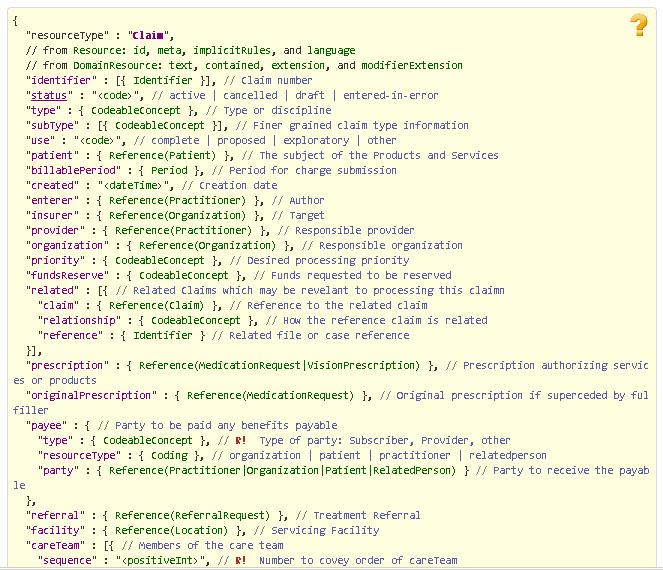


Figure 5 Source http://www.hl7.org/fhir/claim.html



Figure 6 Source http://www.hl7.org/fhir/claim.html



Figure 7 Source http://www.hl7.org/fhir/claim.html

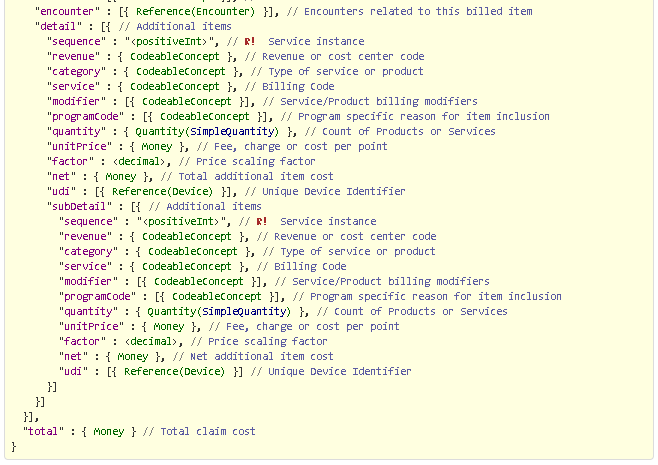


Figure 8 Source http://www.hl7.org/fhir/claim.html

### ClaimResponse

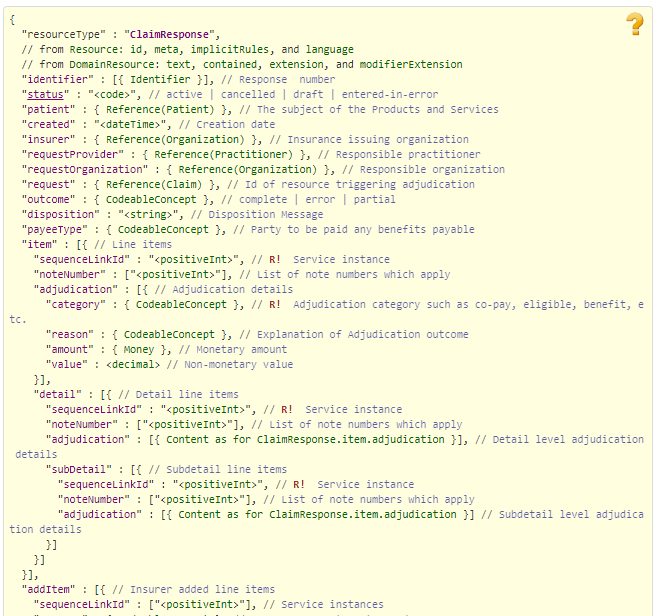


Figure 9 Source http://www.hl7.org/fhir/claimresponse.html



Figure 10 Source http://www.hl7.org/fhir/claimresponse.html

### CommunicationRequest



Figure 11 Source http://www.hl7.org/fhir/communicationrequest.html

### EpisodeOfCare

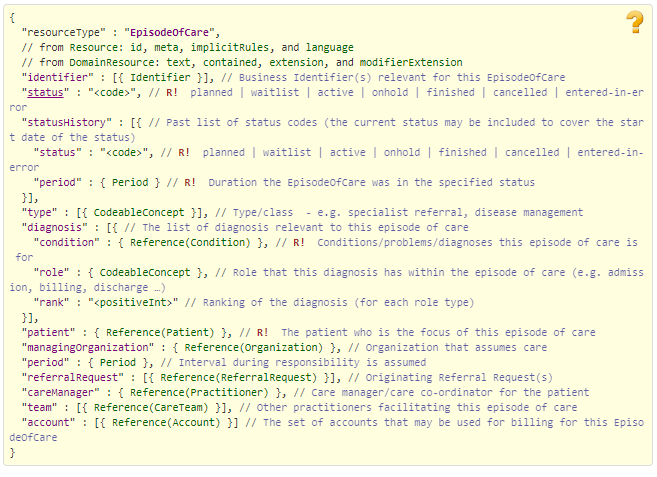


Figure 12 Source http://www.hl7.org/fhir/episodeofcare.html

### MessageHeader

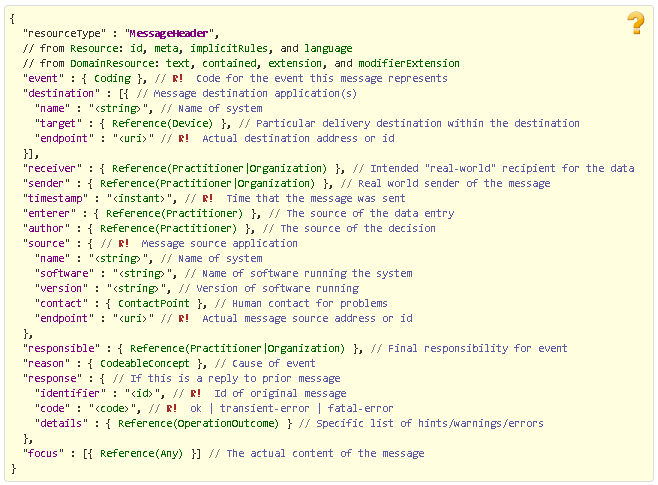


Figure 13 Source http://www.hl7.org/fhir/messageheader.html

### OperationOutcome

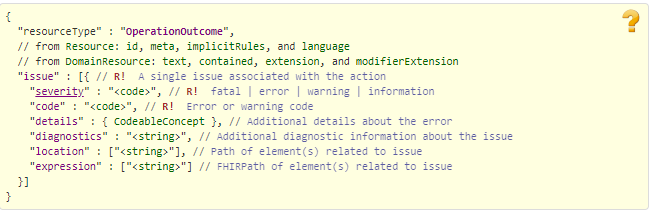


Figure 14 Source http://www.hl7.org/fhir/operationoutcome.html

### Organization

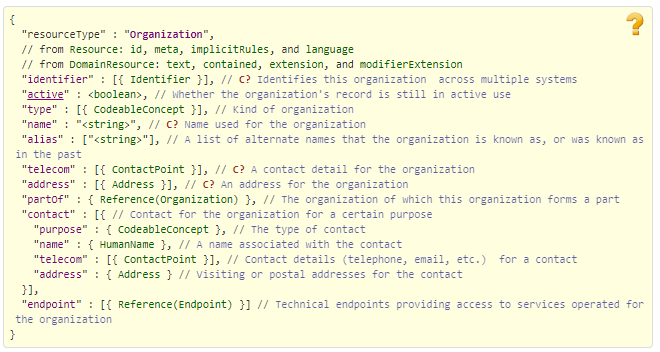


Figure 15 Source http://www.hl7.org/fhir/organization.html

### Patient



Figure 16 Source http://www.hl7.org/fhir/patient.html

### RelatedPerson

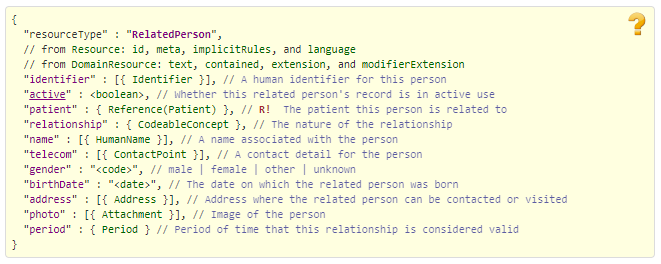


Figure 17 Source http://www.hl7.org/fhir/relatedperson.html

## Embedded following columns:

#### Element #

#### Max Length

#### FSC Transaction Location

* FSC Comments
* FHIR Resource
* TASCore Comments

# Appendix B - TASCore Mapping Rules

# Appendix C – TASCore Default Values

# Appendix D – FSC Mapping Rules

# Appendix E – FSC Default Values