

Federated Insurance Database Deconstruction
IS 384
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Overview:


The Federated Entity Relationship Diagram (ERD) for claims is a logical model. A logical model is used to gather business requirements. By developing a logical model, Federated Insurance was making an attempt to capture all business requirements to begin constructing useful diagrams and reports. A logical model is not designed to be implemented as is into a physical database, it is conceptual overview of the system. However, it is used as a resource to construct a physical database. A logical model is typically created in the requirements gathering stage of the systems development life cycle. This leads us to believe that Federated created this ERD to logically understand their different business processes.

The Federate Insurance ERD is driven by three major sections. The three major sections are as follows:

- 1) Claim Section
- 2) Communication Section
- 3) Documentation Section

Tables of the Claim Section:

Claim

 claim id: DECIMAL(12,0)
claim status code: CHAR(2) (FK)
claim office number: CHAR(2) (FK)
closing type code: CHAR(2) (FK)
closing type category code: CHAR(2) (FK)
expected recovery type code: CHAR(2) (FK)
negligence percentage type code: CHAR(2) (FK)
deductible type code: CHAR(2) (FK)
use type code: CHAR(2) (FK)
claim type identifier: CHAR(2) (FK)
claim status effective date: DATE (FK)






Description:

The Claim Table is a logical table (it doesn't actually exist in the physical database). It is needed to describe how a claim is related to (and identified by) several other fields in the database.

Key Relationships:

Each Claim may have 0 or many Claim Documents

Claim Activity

 claim id: DECIMAL(12,0)	
 claim activity category code: CHAR(2) (FK)	
 claim activity type code: CHAR(3) (FK)	
 claim activity date: DATE	
 claim activity timestamp: TIMESTAMP	
federated employee identifier: CHAR(6) (FK)	
send method type code: CHAR(2)	


Description:

Uniquely identifies and creates a record that is used to document which Federated employee chose which type of process to send the claim documentation.

Key Relationships:

Each Claim Activity has one of many Claim Activity Contacts.

Claim Activity Category

 claim activity category code: CHAR(2)
claim activity category description: CHAR(25)
active indicator: CHAR(1)









Description:

Uniquely identifies and creates types of claim categories along with a description.

Key Relationships:

Each Claim Activity Category may have 0 or many Claim Activity Types

Claim Activity Contact

	claim id: DECIMAL(12,0) (FK) (AK1)
	claim activity category code: CHAR(2) (FK)
	claim activity type code: CHAR(3) (FK)
	claim activity date: DATE (FK)
	claim activity timestamp: TIMESTAMP (FK)
	claim contact id: CHAR(14)
	claim contact effective timestamp: TIMESTAMP
	activity contact relationship type code: CHAR(2) (FK)
phone fax id: CHAR(14) (FK)	
contact phone fax effective timestamp: TIMESTAMP (FK)	
address id: CHAR(14) (FK)	
contact address effective timestamp: TIMESTAMP (FK)	
electronic communication id: CHAR(14) (FK)	
contact electronic communication effective timestamp: TIMESTAMP (FK)	







Description:

Stores information that identifies all contacts for all the separate parts of the claims process.

Key Relationships:

- Each Claim Activity Contact relates to one Activity Contact Relationship Type
- Each Claim Activity Contact can have a Contact Address
- Each Claim Activity Contact can have a Contact Electronic Communication
- Each Claim Activity Contact must have a Claim Activity
- Each Claim Activity Contact may have a Contact Phone Fax

Claim Activity Related Document

	claim id: DECIMAL(12,0) (FK) (IE1,IE2)
	claim activity category code: CHAR(2) (FK)
	claim activity type code: CHAR(3) (FK)
	claim activity date: DATE (FK)
	claim activity timestamp: TIMESTAMP (FK)
	pcc document id: DECIMAL(12,0) (FK)



Description:

Uniquely identifies the claim. This table is used to identify the contact information as well as noting the time the claim has been administered to the person that submitted the claim.

Key Relationships:

- Each Claim Activity Related Document is part of a Claim Activity

Claim Activity Type

	claim activity category code: CHAR(2) (FK)
	claim activity type code: CHAR(3)
claim activity type description: CHAR(30)	
detail indicator: CHAR(1)	
display indicator: CHAR(1)	
active indicator: CHAR(1)	



Description:

Uniquely identifies and creates types of claims along with claim activity type description.

Key Relationships:

- Each Claim Activity Type may describe 0 or many Claim Activities

Claim Document

	claim id: DECIMAL(12,0) (FK)
	pcc document id: DECIMAL(12,0)
document active code: CHAR(1)	
approved date: DATE	
approved timestamp: TIMESTAMP	
claim reference document indicator: CHAR(1)	






Description:

Uniquely identifies and creates records whether or not the claim document is currently being used.

Key Relationships:

Each Claim Document may belong to zero or many Claim Activity Related Documents
Each Claim Document is for one Claim
Each Claim Document may have zero or many Claim Documentation Internal Contact
Each Claim Document may have 0 or many Claim Reference Documents
- This is a recursive relationship

Claim Document Activity

 claim id: DECIMAL(12,0) (FK)	
 pcc document id: DECIMAL(12,0) (FK)	
 document activity date: DATE	
 document activity timestamp: TIMESTAMP	
 document activity type code: CHAR(3) (FK) (IE2)	
federated employee identifier: CHAR(6) (FK)	
activity reason type code: CHAR(2) (FK) (IE2)	
employee full name: CHAR(67)	
claim documentation approved date: DATE	
claim documentation approved time: TIME	
claim document activity text: VARCHAR(100)	






Description:

Uniquely identifies and creates a federated employee responsible for processing the claim as a certain along with date and time approved.

Key Relationships:

Each Claim Document Activity must have a Claim Document
Each Claim Document Activity belongs to a Document Activity Type

Claim Documentation Contact

 claim id: DECIMAL(12,0) (FK)	
 pcc document id: DECIMAL(12,0) (FK)	
 claim contact id: CHAR(14)	
 claim contact effective timestamp: TIMESTAMP	
 documentation contact relationship type code: CHAR(2) (FK)	
claim documentation phone text: CHAR(15)	

Description:

The Claim Documentation Contact table identifies the contact that corresponds with each piece of claim documentation.

Key Relationships:

Each Claim Documentation Contact must have a Documentation Contact Relationship Type
Each Claim Documentation Contact is for one Claim Document

Claim Documentation Internal Contact

 claim id: DECIMAL(12,0) (FK)
 pcc document id: DECIMAL(12,0) (FK)
 internal contact effective timestamp: TIMESTAMP
 documentation contact relationship type code: CHAR(2) (FK)
employee id: CHAR(6)
internal contact name: VARCHAR(254)




Description:

Claim documentation internal contact table allows the table Claim Document and Documentation Contact Relationship Type to have a unique many to many relationship.

Key Relationships:

Claim Documentation Internal Contact can be a part of many Claim Documentation Contacts.
Claim Documentation Internal Contact is part of one Claim Document.

Claim Document Category Type

 claim id: DECIMAL(12,0) (FK)
 document category code: CHAR(2) (FK)
 pcc document id: DECIMAL(12,0) (FK)
document type code: CHAR(3) (FK)





Description:

Allows different claims and document categories to be able to have multiple entries but providing a unique identifier with the combination of both.

Key Relationships:

Each Claim Document Category Type belongs to a Document Category
Each Claim Document Category Type belongs to a Document Type

Claim Document Subject

 claim id: DECIMAL(12,0) (FK) (AK1,IE1)
 subject type code: CHAR(2) (FK)
 subject reference text: CHAR(30)
 pcc document id: DECIMAL(12,0) (FK)


Description:

The Claim Document Subject table links (and identifies the relationships) between the Subject Type table and the Claim Document table.

Key Relationships:

Each Claim Document Subject is belongs to one Subject Type
Each Claim Document Subject belongs to a Claim Document



Claim File Documentation Type

 claim file documentation type code: CHAR(2)
claim file documentation description: CHAR(30)
active indicator: CHAR(1)

Description:

Uniquely identifies the type, or category, of claim documentation.

Produce Claim File

 claim id: DECIMAL(12,0) (FK)
 requested timestamp: TIMESTAMP
process timestamp: TIMESTAMP
claim number: CHAR(9)
claim reported date: DATE
responsible claim office number: CHAR(2)
federated employee id: CHAR(6)
employee full name: CHAR(67)
method type code: CHAR(2) (FK)
notify complete indicator: CHAR(1)
note indicator: CHAR(1)
history indicator: CHAR(1)
details indicator: CHAR(1)
additional details indicator: CHAR(1)
black white only indicator: CHAR(1)
produce entire file indicator: CHAR(1)


Description:

Identifies information from the creation of a claim by a certain contact. Identifies the people that are involved in the process and houses information on when the claim was produced (date and time) and how the claim was produced (Method type code).

Key Relationships:

Produce claim file is part of one Claim Activity Contact
Produce Claim file is part of one Produce Claim File Method Type
Produce Claim file can be a part of many Documents

Produce Claim File Method Type

 method type code: CHAR(2)
method type description: CHAR(20)
active indicator: CHAR(1)




Description:

Uniquely identifies and stores different types of claim files

Key Attributes:

Produce Claim File Method type can be a part of many Produce Claim Files

Produce Partial Claim File Documentation

 claim id: DECIMAL(12,0) (FK)
 pcc document id: DECIMAL(12,0) (FK)
 requested timestamp: TIMESTAMP (FK)
process timestamp: TIMESTAMP

Description:


The Produce Partial Claim File Documentation is used to identify any claim files that are not totally completed. This table is necessary to account for cases when the documentation is completed by several different people or is not finished at all.

Key Attributes:

Each Partial Claim File Documentation corresponds to one Claim File Produced.

Tables of the Communication Section:

Activity Contact Relationship Type

 activity contact relationship type code: CHAR(2)
activity contact relationship description: CHAR(25)
active indicator: CHAR(1)


Description:

Uniquely identifies the relationship that a claim contact can possess.

Key Relationships:

An Activity Contact Relationship Type may be a part of many Claim Activity Contacts.

Authority Extend

 property & casualty claims documentation id: DECIMAL(12,0) (FK)
previous property & casualty claims documentation id: DECIMAL(12,0) (FK)


Description:

Subtype of communication documentation – we cannot be certain what this means, but it is probably a request for a higher authority to look over a claim.

Key Relationships:

An Authority Extend may be part of one Authority Request.
An Authority Extend is a subtype of Claim File Documentation.

Authority Request

 property & casualty claims documentation id: DECIMAL(12,0) (FK)


Description:

Subtype of communication documentation (cant be sure what this means... maybe a request to have a higher authority involved in the claim, maybe an approval from a higher authority)

Key Relationships:

An Authority Request may be part of many Authority Extend.
An Authority Request is a subtype of Claim File Documentation.


Authority Type

 authority type code: CHAR(2)
authority type description: CHAR(30)
active indicator: CHAR(1)

Description:

Uniquely identifies and stores the different authority types including a description of the authority type.

Communication Documentation

 property & casualty claims documentation id: DECIMAL(12,0) (FK)
communication type code: CHAR(2) (FK)
detailed text: VARCHAR(16000)


Description:

Uniquely identifies the type of document that was used to communicate the claim.

Key Relationships:

A Communication Documentation has one Type Of Communication.

Communication Type

 communication type code: CHAR(2)
communication description: CHAR(25) active indicator: CHAR(1)



Description:

Uniquely identifies and stores the different types of communication that can be done within Federated Insurance.

Key Relationships:

A Type of Communication may be a part of one Communication Documentation.

Contact Address

 address id: CHAR(14) (AK2)
 contact address effective timestamp: TIMESTAMP
contact id: CHAR(14) (FK) contact address expiration timestamp: TIMESTAMP contact address type code: CHAR(2) (FK) contact line 1 address: CHAR(45) contact line 2 address: CHAR(45) contact city name: CHAR(30) (AK1) state abbreviation: CHAR(2) (FK) (AK1) contact postal code: CHAR(13)



Description:

Identifies the contact information for the person that makes the insurance claim.

Key Relationships:

A Contact Address may be a part of many Claim Activity Contacts.

Contact Electronic Communication

 electronic communication id: CHAR(14) (AK1)
 contact electronic communication effective timestamp: TIMESTAMP
contact id: CHAR(14) (FK) contact electronic communication expiration timestamp: TIMESTAMP contact electronic communication type code: CHAR(2) (FK) contact electronic communication address: VARCHAR(255)



Description:

Identifies and keeps records of communication via electronic means (i.e. the internet) and stores the time and date information from when the communication happened.

Key Relationships:

An Electronic Communication Contact can go to zero or more Claim Activity Contacts.

Contact Phone Fax

 phone fax id: CHAR(14) (AK2)
 contact phone fax effective timestamp: TIMESTAMP
contact id: CHAR(14) (FK) (AK4)
contact phone fax expiration timestamp: TIMESTAMP()
contact phone fax type code: CHAR(2) (FK)
contact phone fax area code: CHAR(3) (AK3)
contact phone fax prefix number: CHAR(3)
contact phone fax line number: CHAR(4) (AK3)
contact phone extension number: CHAR(5)


Description:

Provides information on how to reach contacts by phone and fax.

Key Relationships:

A Fax Contact may be a part of many Claim Activity Contacts.

Conversation

 property & casualty claims documentation id: DECIMAL(12,0) (FK)
conversation date: DATE
conversation time: TIME
beginning service date: DATE
ending service date: DATE


Description:

Subtype of communication documentation - Identifies that there has been a reason to process the claim and provides a referral to the person filing the claim.

Key Relationships:

A Conversation is a subtype of Claim File Documentation.


Conversation Default Message Type

 conversation default message type code: CHAR(2)
conversation default message description: CHAR(40)
active indicator: CHAR(1)

Description:

Identifies and stores data on conversation default message type along with if the conversation is still active and description.

External Contact Relationship Type

 external contact relationship type code: CHAR(2)
external contact relationship description: CHAR(50)
display indicator: CHAR(1)
active indicator: CHAR(1)


Description:

Describes the nature of the relationship between the subject and his/her external contact.

Key Relationships:

An External Contact Relationship type may be a part of many Subject Types.

Instruction to Assistant

 property & casualty claims documentation id: DECIMAL(12,0) (FK)


Description:

The Introduction to Assistant table is a subtype of Communication Documentation. It represents whether or not a client has met with (and been introduced to) their designated assistant.

Key Relationships:

An Instruction To Assistant is a subtype of Claim File Documentation.

Internal Memo

 property & casualty claims documentation id: DECIMAL(12,0) (FK)

Description:


Subtype of communication documentation - describes any memos that were passed as communication between Federated and the Client.

Key Relationships:

Each Internal Memo may have many Internal Memo Replies.

An Internal Memo is a subtype of Claim File Documentation.

Internal Memo Reply

 property & casualty claims documentation id: DECIMAL(12,0) (FK)
previous property & casualty claims document id: DECIMAL(12,0) (FK)

Description:


Subtype of communication documentation - describes any replies to memos sent

Key Relationships:

Each Internal Memo Reply may be a response to an Internal Memo.

An Internal Memo Reply is a subtype of Claim File Documentation.

Note To File

 property & casualty claims documentation id: DECIMAL(12,0) (FK)


Description:

Note to File is a subtype of Communication Documentation. It represents data from any miscellaneous information (referred to as a note) that is filed along with the claim.

Key Relationships:

A Note To File is a subtype of Claim File Documentation.

Subject Type

 subject type code: CHAR(2)
subject type display name: CHAR(25)
subject type description: CHAR(25)
name class code: CHAR(1)
drp subkey code: CHAR(1)
paccs age code: CHAR(1)
claim party code: CHAR(1)
subject category code: CHAR(1)
active indicator: CHAR(1)
external contact relationship type code: CHAR(2) (FK)

Description:


Uniquely identifies and the different document subject types that can be used for a claim.

Key Relationships:

A Subject Type may be a part of many Claim Document Subjects.

Tables of the Documentation Section:

Claim File Documentation

 property & casualty claims documentation id: DECIMAL(12,0)

Description:




Claim File Documentation describes a piece of documentation in the database.

Key Relationships

Claim File Documentation has two subtypes:

- Communication Documentation
- Document

Claim Reference Document

 claim id: DECIMAL(12,0) (FK)
 pcc document id: DECIMAL(12,0) (FK)
 reference pcc document id: DECIMAL(12,0) (FK)

Description:


Claim Reference Document is a look up table that allows a user to get information on a claim.

Key Relationships:

A recursive relationship exists between Claim Reference Document and Claim Document.

A Claim Reference Document must refer to a Claim Document.

Document

 pcc document id: DECIMAL(12,0) (FK)

packet_id: CHAR(25) (IE1)
document template code: CHAR(3) (FK)
external indicator: CHAR(1)
index date: DATE
conversion date: DATE
conversion location code: CHAR(4)
locked indicator: CHAR(1)
beginning service date: DATE
ending service date: DATE
document status search date: DATE (AK1)
document description: VARCHAR(60)
cluster id: CHAR(14)
fdms indicator: CHAR(1)
document process type code: CHAR(2) (FK)
conversation date: DATE
conversation time: TIME

Description:


Contains information regarding all of the documents that are filed in association with particular claims. Describes the type of document and date information

Key Relationships:

Each Document may have a Document Process Type.

Each Document may have a Document Template.

Document Activity Type

 document activity type code: CHAR(3)
document activity type description: CHAR(20)
display indicator: CHAR(1)
active indicator: CHAR(1)


Description:

Uniquely identifies and creates different document types as well as a description.

Key Relationships:

Each Document Activity Type has zero or many Claim Document Activities.

Documentation Contact Relationship Type

 documentation contact relationship type code: CHAR(2)
documentation contact relationship description: CHAR(30)
active indicator: CHAR(1)
internal indicator: CHAR(1)
external indicator: CHAR(1)

Description:


Defines the relationship between the Document Contact and the internal contact for the claim.

Key Relationships:

Each Documentation Contact Relationship Type may have zero or more Claim Documentation Contacts.

Each Documentation Contact Relationship Type may have zero or more Claim Documentation Internal Contacts.

Document Category

 document category code: CHAR(2)
document category type description: CHAR(25)
active indicator: CHAR(1)

Description:



Uniquely stores and identifies the different types of documentation categories used for claims.

Key Relationships:

Each Document Category is described by a Claim Documentation Category Type.

Each Document Category belongs to a Document Category Type.

Document Category Type

 document category code: CHAR(2) (FK) (IE1)
 document type code: CHAR(3) (FK) (IE2)
active_indicator: CHAR(1)

Description:



Defines what kind of document it is that is associated with the claim. It links the Document Category and Document Type tables.

Key Relationships:

A Document Category Type belongs to one Document Category

A Document Category Type belongs to one Document Type

Document Process Relationship

 document process type code: CHAR(2) (FK)
 document type code: CHAR(3) (FK)
active indicator: CHAR(1)

Description:


Explains how the document type is related to the business process the document is related to. This table further explains the Document Process Type.

Key Relationships:

Each Document Process Relationship must refer to a Document Type

Each Document Process Relationship must refer to Document Process Type

Document Process Type

 document process type code: CHAR(2)
document process service method description: CHAR(30)
document process type description: CHAR(30)
active indicator: CHAR(1)


Description:

Identifies ways a document can be processed.

Key Relationships:

A document process type may be a part of many Claim Documents.

Document Template

 document template code: CHAR(3)
document template type code: CHAR(2) (FK) document template display name: VARCHAR(100) document template location description: VARCHAR(200) active indicator: CHAR(1)

Description:


Identifies the base document, or template, that each official document (in the document table) may have come from.

Key Relationships:

A document template is a part of one Document Template Type.

A document template can be a part of many Document Process Types.

Document Template Type

 document template type code: CHAR(2)
document template type description: CHAR(30) active indicator: CHAR(1)


Description:

Uniquely describes and identifies the kind, or category of the document template.

Key Relationship:

A Document Template Type maybe be a part of many Documents.

Document Type

 document type code: CHAR(3)
document type description: CHAR(30) display order number: SMALLINT active indicator: CHAR(1) claim file documentation type code: CHAR(2) (FK)

Description:

Uniquely identifies and creates records for the different document types for claims.


Key Relationships:

A Document Type may be a part of many Document Categories.

A Document Type is a part of one Claim File Documentation Type.

A Document Type may be a part of many Document Process Types.

Referral Report

 property & casualty claims documentation id: DECIMAL(12,0) (FK)


Description:

Subtype of communication documentation - Provides a report that identifies the referrals that have been requested.

Key Relationships:

A Referral Report is a subtype of Claim File Documentation.

Referral Request

 property & casualty claims documentation id: DECIMAL(12,0) (FK)

Description:

Subtype of communication documentation - Provides a report that identifies the referrals that have been requested.

Key Relationships:

A Referral Request is a subtype of Claim File Documentation.

Scope and Limitations:

Scope:

What is the big picture of this data model?

By developing a logical model, Federated Insurance was making an attempt to capture all business requirements to begin constructing useful diagrams and reports. This leads us to believe that Federated created this ERD to logically understand their different business processes. This model pertains to the flow of information with respect to an insurance claim. According to this model, the key parts of a claim are communication and documentation.

What do the three main parts of the model have to do with each other?

There cannot be a claim without documentation and communication. To start a claim, there must be communication between Federated and clients as well as the necessary documentation for a claim to exist within Federated.

What is Federated Insurance trying to accomplish with this model?

The two major things I think Federated is trying to accomplish are to keep track of all documents that are associated with their insurance claims and to keep track of any form of communication (oral or written) that occurs between their representatives and their clients.

Why is Federated beginning to use this ERD now?

We think that Federated has created this ERD as a preliminary tool to better illustrate their business requirements and processes related to insurance claims which will later be used to create other diagrams and eventually help with physical database implementation.

Do you think they write reports off this?

We don't think database is used for writing reports. It seems geared towards record keeping and tracking the flow of communication and documentation of claims between Federated and their clients as well as the client's insurance company.

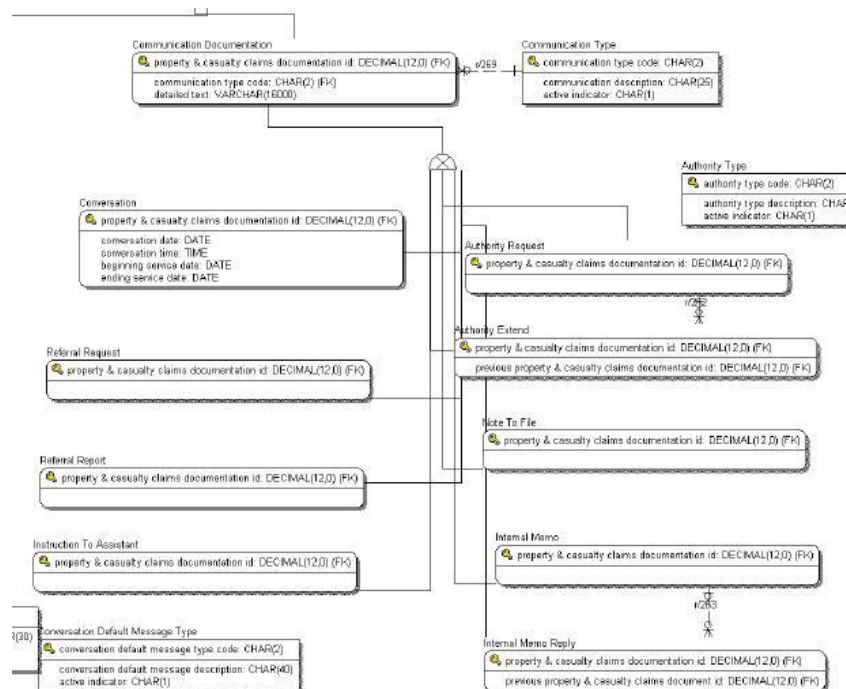
Limitations:

Are there any tables that don't seem to serve a functional purpose?

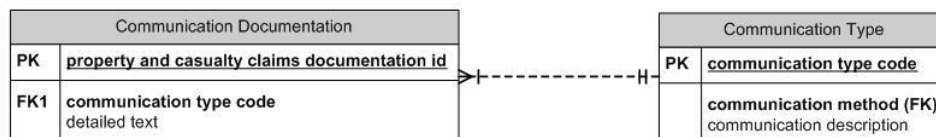
- Authority Type
 - It is hard to decipher what this table actually means within the model. Also, this is table is not connected to any other entities. If the entity truly belongs in the diagram, we feel that it should have a relationship with at least one or two other tables.
- Conversation Default Message Type
 - This is another table that does not have any relationships. It is floating in space on the diagram.
- Claim Activity Contact
 - Redundant data with Contact Address
- Contact Address
 - Why can't contact phone fax and contact address be one table?

What are two areas of the model that could use improvement?

- **Middle area of model (subtypes of Claim File Documentation)**
 - We think that all the subtype tables could be collapsed into the Communication Type table as attributes. Since most of the entities under Communication Documentation have the same primary key (property and casualty claims documentation id), and the primary key is the only attribute in the entities.
 - This problematic area could be improved by collapsing the following tables into a single attribute called Communication Method in the Communication Type table. It makes more sense to hold this information in the Communication Type table because the subtype tables represent types of communication.
 - Conversation
 - Referral Request
 - Referral Report
 - Instruction to Assistant
 - Authority Request
 - Authority Extend
 - Note to File
 - Internal Memo
 - Internal Memo Reply
 - The problematic area in the middle-bottom of the model currently looks like this:



- We propose getting rid of the 9 subtypes of communication documentation, and representing that data with a single attribute in the Communication Type table called "Communication Method."



- **Another issue with the diagram is how the various "contacts" are being represented**
 - We think that contact information could be placed into one entity instead of being spread out over many tables. Since all of the contact-based data is spread out into 5 entities, a lot of the data that is stored in it seems redundant. This model could be more efficient if these tables could somehow be combined to centralize all of the information related to contact.
 - We propose to change the structure of the contact-related tables so they would fit into the following model. Each contact does not need a contact info record because some contacts are "internal contacts." It is unlikely that Federated would want to keep information on internal contacts.

Claim Contact	
PK	<u>claim id</u>
	claim contact id claim contact effective timestamp claim contact type relationship type code
FK1	Contact Info code

Claim contact type is used to decipher what kind of contact it is in the system – ex. Claim Activity Contact, Claim Documentation Contact, External Contact

Contact Info	
PK	<u>Contact Info code</u>
	phone number fax number Contact Street fax prefix phone area code address type code address line 1 address line 2 state abbreviation city name postal code



ERD Diagram Symbols:

Keys:



Designates Primary Key

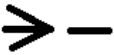
(FK) Designates Foreign Key

(AK) Designates Alternate Key

Relationships:



Identifying "Many" Relationship



Non-identifying "Many" Relationship



Sub-type Icon

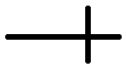
Cardinality:



Zero, One or Many



One or Many



One



Zero or One

Dashed line: non-identifying

If a relationship is non-identifying, it means no attributes are used as a foreign key in the table it is related to.

Solid Line: Identifying

An identifying relationship is where an attribute is used as a foreign or primary key for the other table as well as its own.

Square Tables: Entity

Indicates a 0 to 1 or 1 to 1 relationship.

Rounded Edge Tables: Associative Entity

Indicates a many to many relationship, contains unique identifier for both tables in the relationship.