

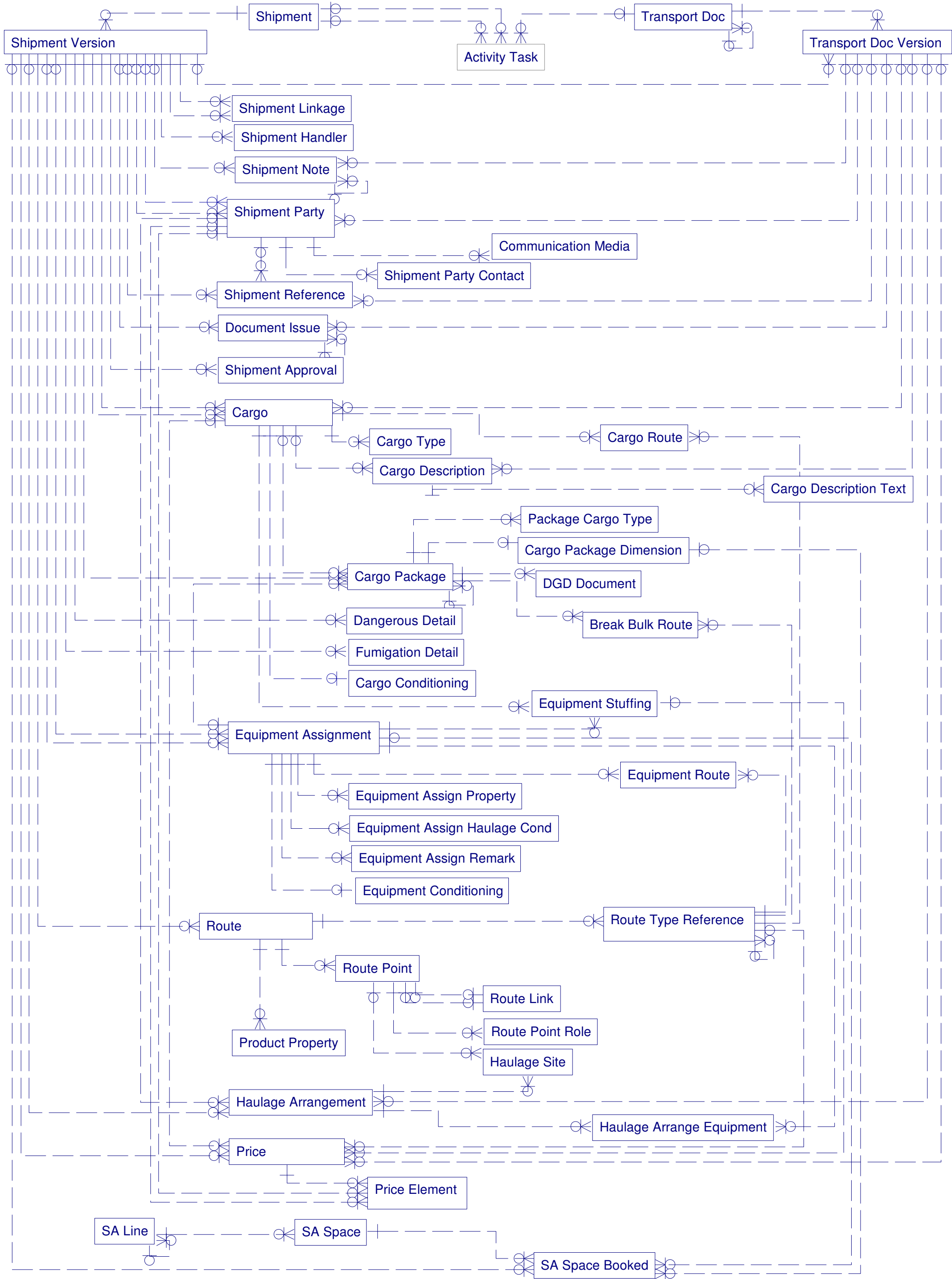
GCSS Data Model Entity-Relationship Diagram including GCSS User-Administration Data Model

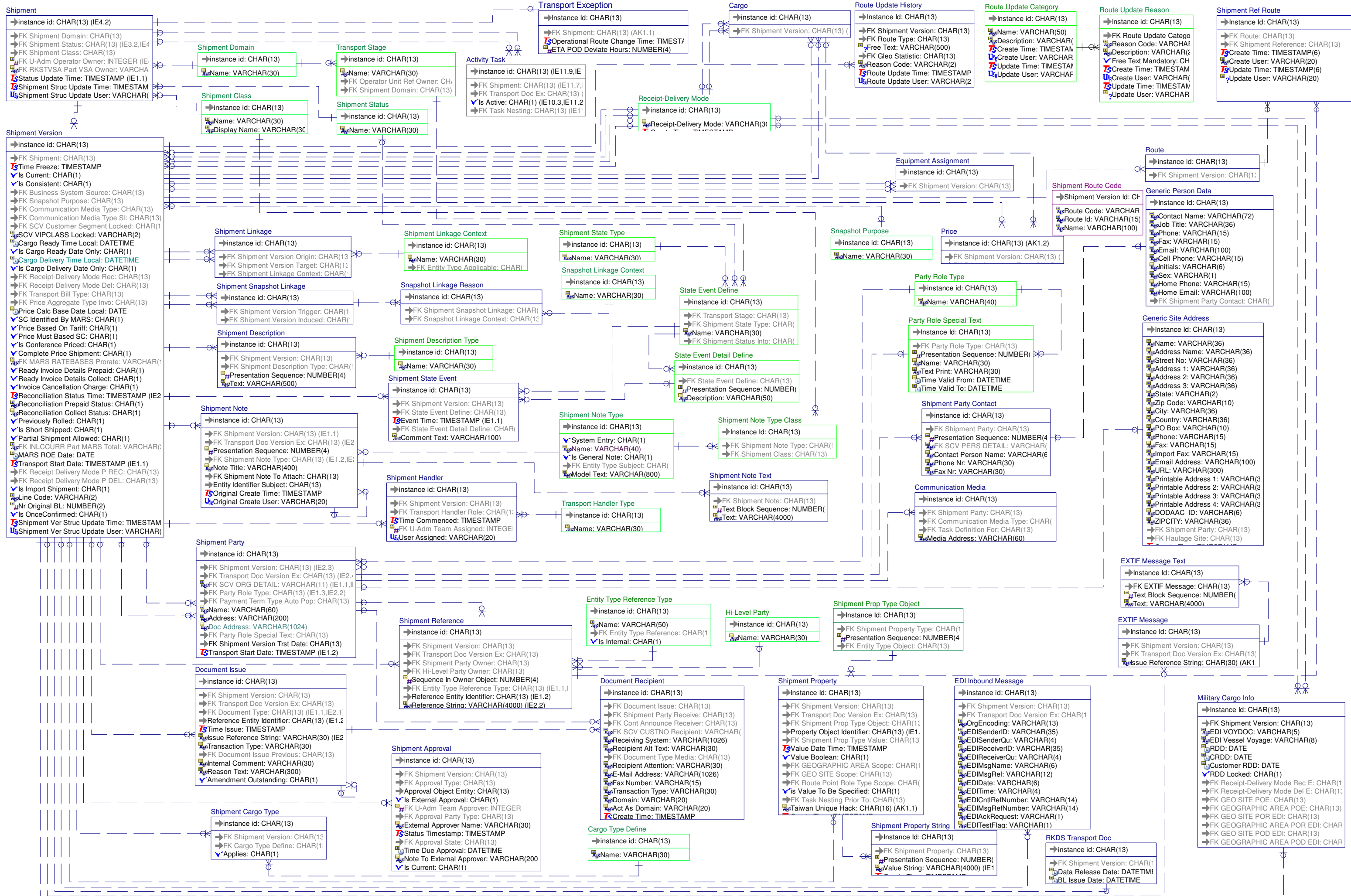
Version date: 2010-02-17

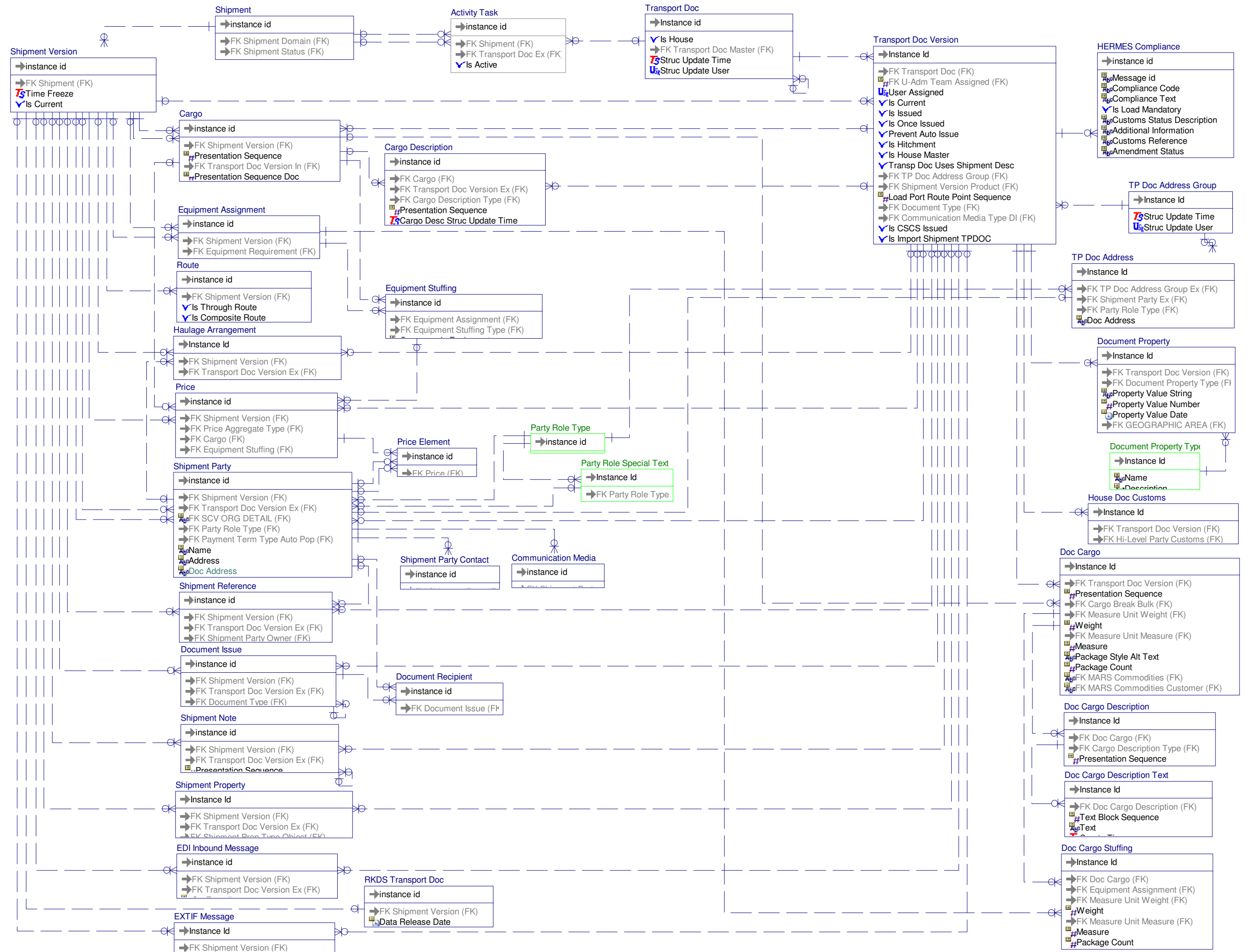
This version reflects:

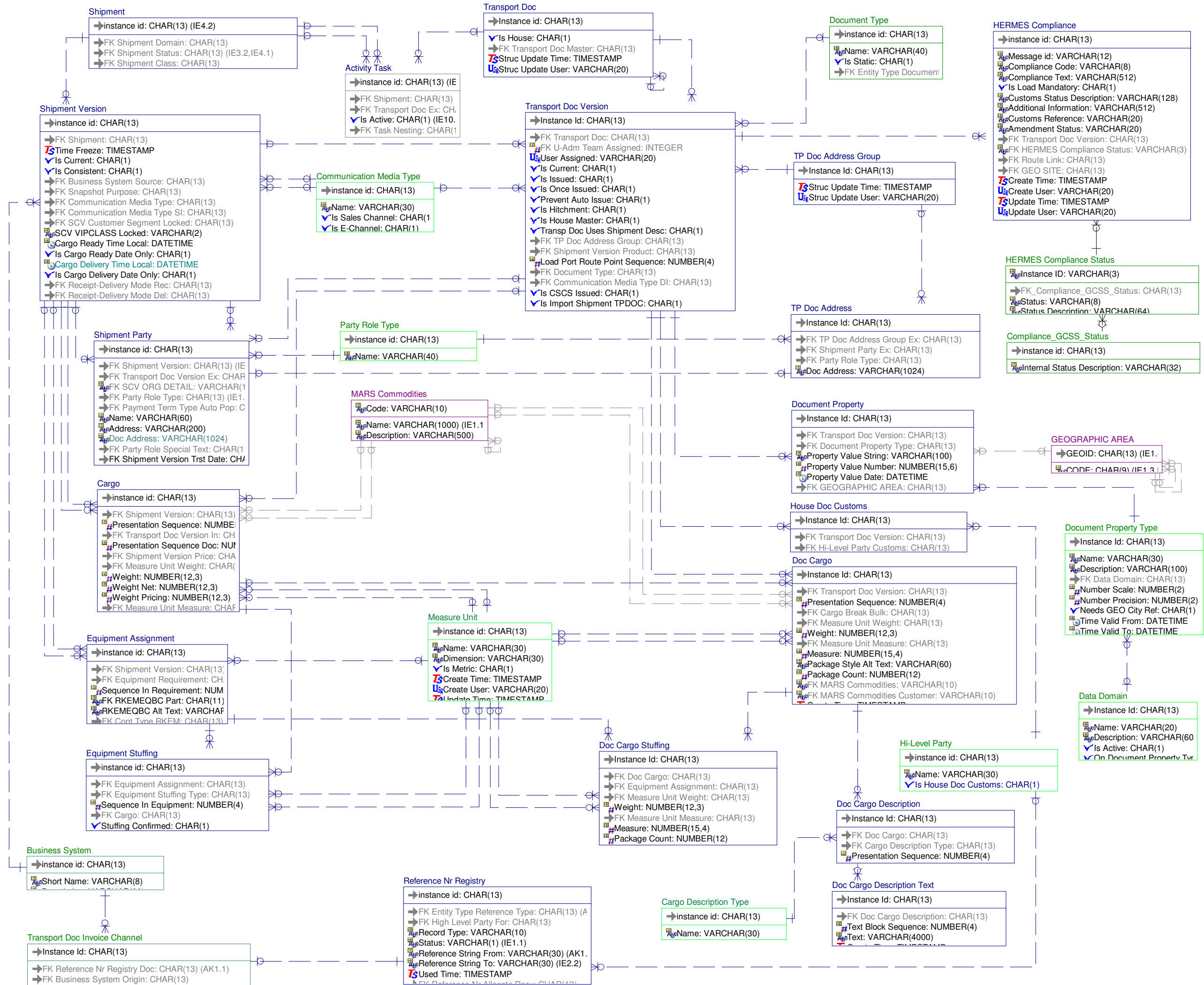
Completed release up to:	GCSS Release 17.0
Under development releases:	GCSS Release 18.0 GCSS Release 19.0

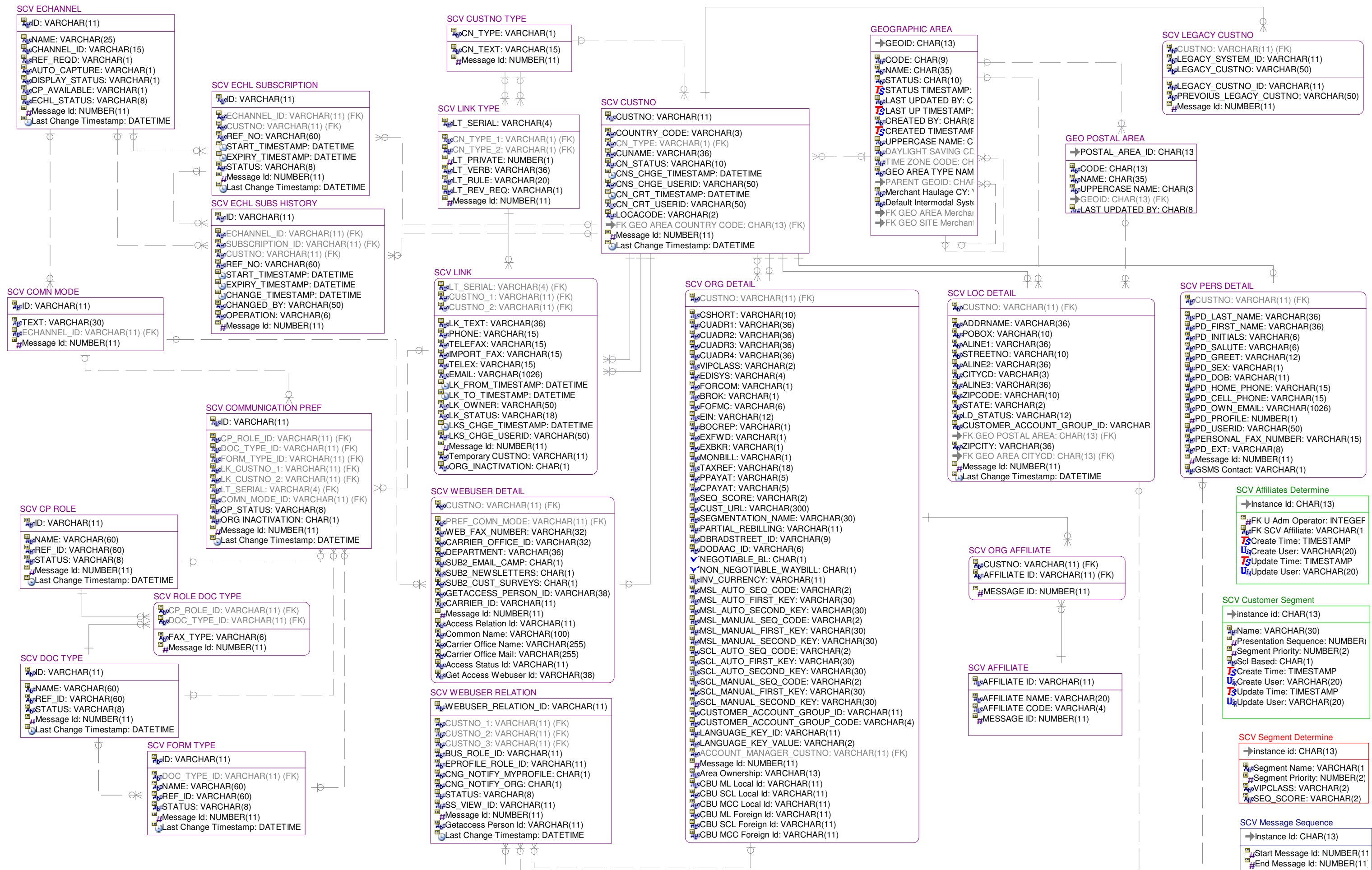
- Transition detail of which data model objects are altered for which on-going development releases is described in the other document,
"GCSS DM Data Model Update Log.doc"
- Text description of entity types and attributes are found in the other document,
"GCSS DM Entity Attribute Description.doc"
- Complete list of static reference data values (light-green boxes in this diagram) are found in the other documents,
"GCSS DM Static Reference Data Rx.xls" and
"GCSS User-Adm DM Static Reference Data Rx.xls"
where Rx denotes GCSS major release number, like R9, R10, R11, etc.

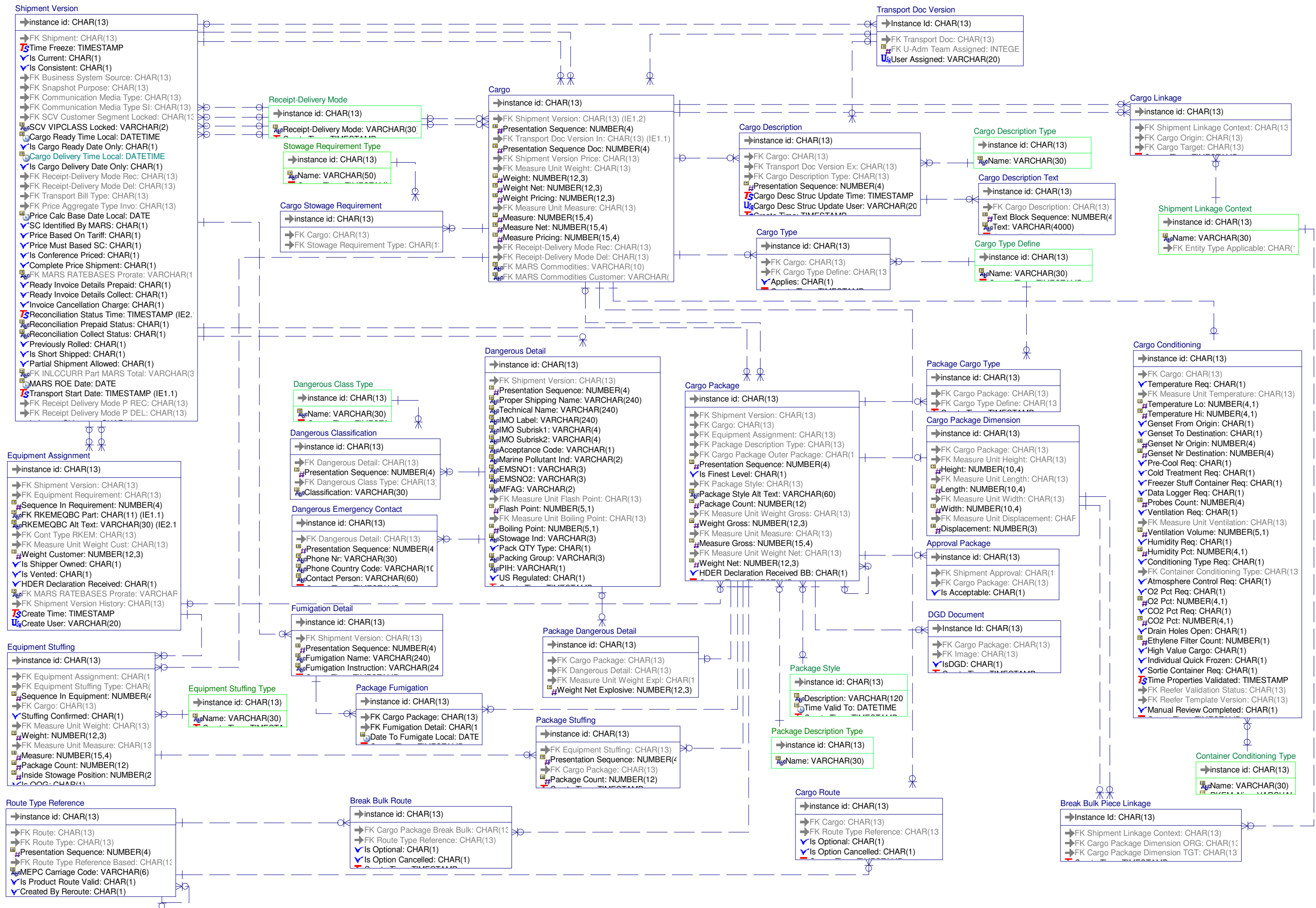












MARS Commodities

Code: VARCHAR(10)
Name: VARCHAR(1000) (IE1.1)
Description: VARCHAR(500)
FK MARS Commodities Parent: VARCHAR(10) (F)
CreationDate: DATE
CreatedBy: VARCHAR(10)
ModificationDate: DATE
ModifiedBy: VARCHAR(10)
Valid Time From: DATE (IE2.1)
Valid Time To: DATE (IE2.2)

Container Conditioning Type

instance id: CHAR(13)
Name: VARCHAR(30)
PKEM Alias: VARCHAR(3)
Valid From: DATE
Valid To: DATE

Reefer Commodity

instance id: CHAR(13)
FK MARS Commodities: VARCHAR(10) (FK)
FK Container Conditioning Type: CHAR(13) (F)
FK Reefer Template: CHAR(13) (FK)
Time Valid From: DATETIME
Time Valid To: DATETIME

Cargo Conditioning

instance id: CHAR(13)
FK Cargo: CHAR(13) (FK)
Temperature Req: CHAR(1)
FK Measure Unit Temperature: CHAR(13) (FK)
Temperature Lo: NUMBER(4,1)
Temperature Hi: NUMBER(4,1)
Genset From Origin: CHAR(1)
Genset To Destination: CHAR(1)
Genset Nr Origin: NUMBER(4)
Genset Nr Destination: NUMBER(4)
Pre-Cool Req: CHAR(1)
Cold Treatment Req: CHAR(1)
Freezer Stuff Container Req: CHAR(1)
Data Logger Req: CHAR(1)
Probes Count: NUMBER(4)
Ventilation Req: CHAR(1)
FK Measure Unit Ventilation: CHAR(13) (FK)
Ventilation Volume: NUMBER(5,1)
Humidity Req: CHAR(1)
Humidity Pct: NUMBER(4,1)
Conditioning Type Req: CHAR(1)
FK Container Conditioning Type: CHAR(13) (F)
Atmosphere Control Req: CHAR(1)
O2 Pct Req: CHAR(1)
O2 Pct: NUMBER(4,1)
CO2 Pct Req: CHAR(1)
CO2 Pct: NUMBER(4,1)
Drain Holes Open: CHAR(1)
Ethylene Filter Count: NUMBER(1)
High Value Cargo: CHAR(1)
Individual Quick Frozen: CHAR(1)
Sortie Container Req: CHAR(1)
Time Properties Validated: TIMESTAMP
FK Reefer Validation Status: CHAR(13) (FK)
FK Reefer Template Version: CHAR(13) (FK)
Manual Review Completed: CHAR(1)

Reefer Criterion Valid

instance id: CHAR(13)
FK Container Conditioning Type: CHAR(13) (F)
FK Reefer Validation Criterion: CHAR(13) (FK)
Is Mandatory: CHAR(1)

Reefer Validation Criterion

instance id: CHAR(13)
Is Unconditional: CHAR(1)
Validation Sequence: NUMBER(4)
Name: VARCHAR(40)
Time Valid From: DATETIME
Time Valid To: DATETIME
Value Data Type: VARCHAR(20)
FK Measure Unit Number: CHAR(13) (FK)
Number Scale: NUMBER(2)
Number Precision: NUMBER(2)

Reefer Template

instance id: CHAR(13)
Name: VARCHAR(30)
Struc Update Time: TIMESTAMP
Struc Update User: VARCHAR(20)

Reefer Template Version

instance id: CHAR(13)
FK Reefer Template: CHAR(13) (FK)
Time Valid From: DATETIME (IE1.1)
Time Valid To: DATETIME (IE1.2)
Manual Review Required: CHAR(1)
Manual Approval Level: VARCHAR(10)

Reefer Validation Rule

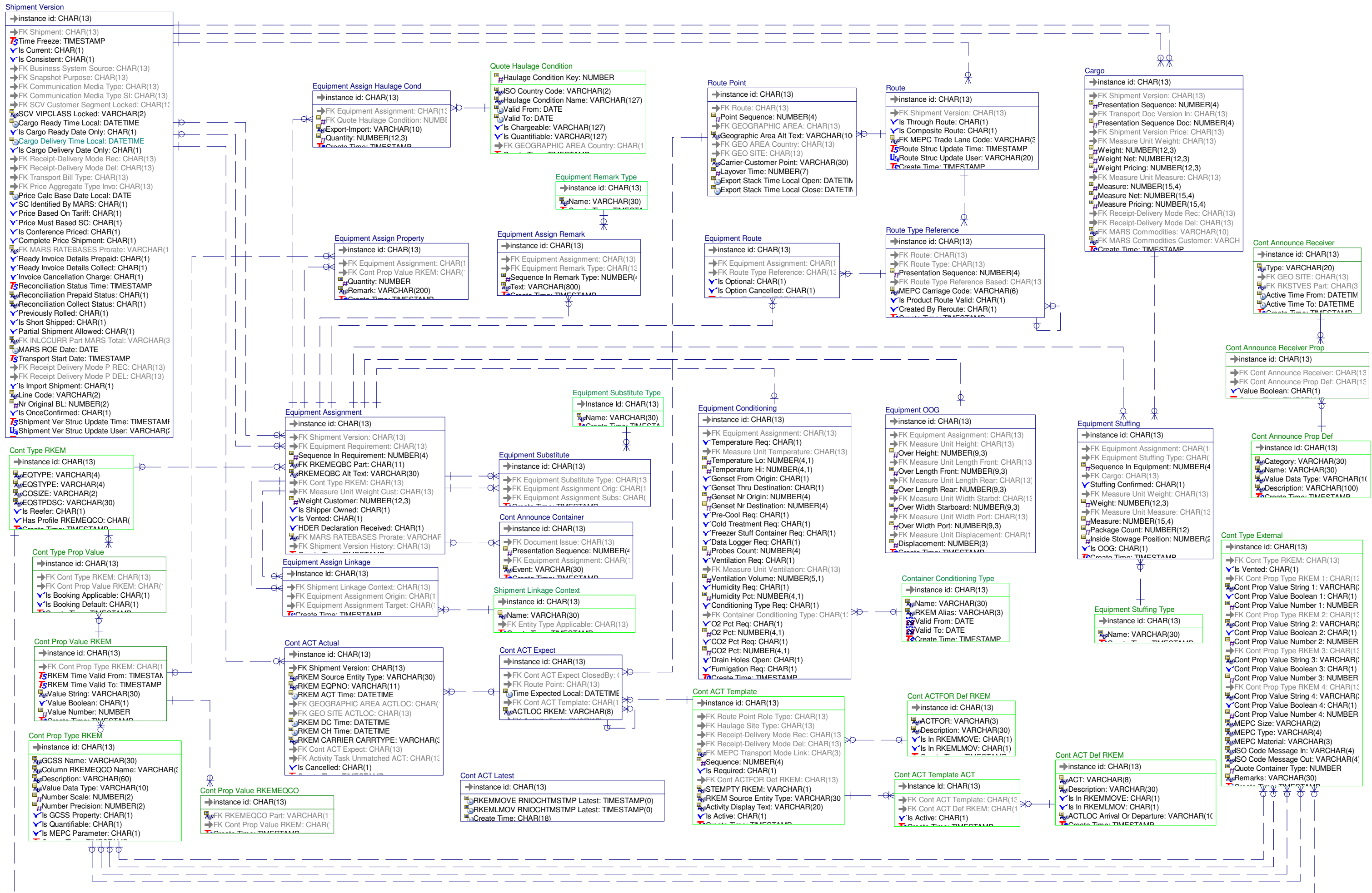
instance id: CHAR(13)
FK Reefer Template Version: CHAR(13) (FK)
FK Reefer Validation Rule Up: CHAR(13) (FK)
Name: VARCHAR(30)
Exception Level: VARCHAR(10)
Is IF-THEN Structure: CHAR(1)
Is IF-Condition: CHAR(1)
Is Affirmative: CHAR(1)
Is Composite: CHAR(1)
Composite AND/OR: VARCHAR(3)
FK Reefer Validation Criterion: CHAR(13) (FK)
Element Number Lo: NUMBER
Element Number Hi: NUMBER
Element Boolean Value: CHAR(1)
Element String Value: VARCHAR(20)

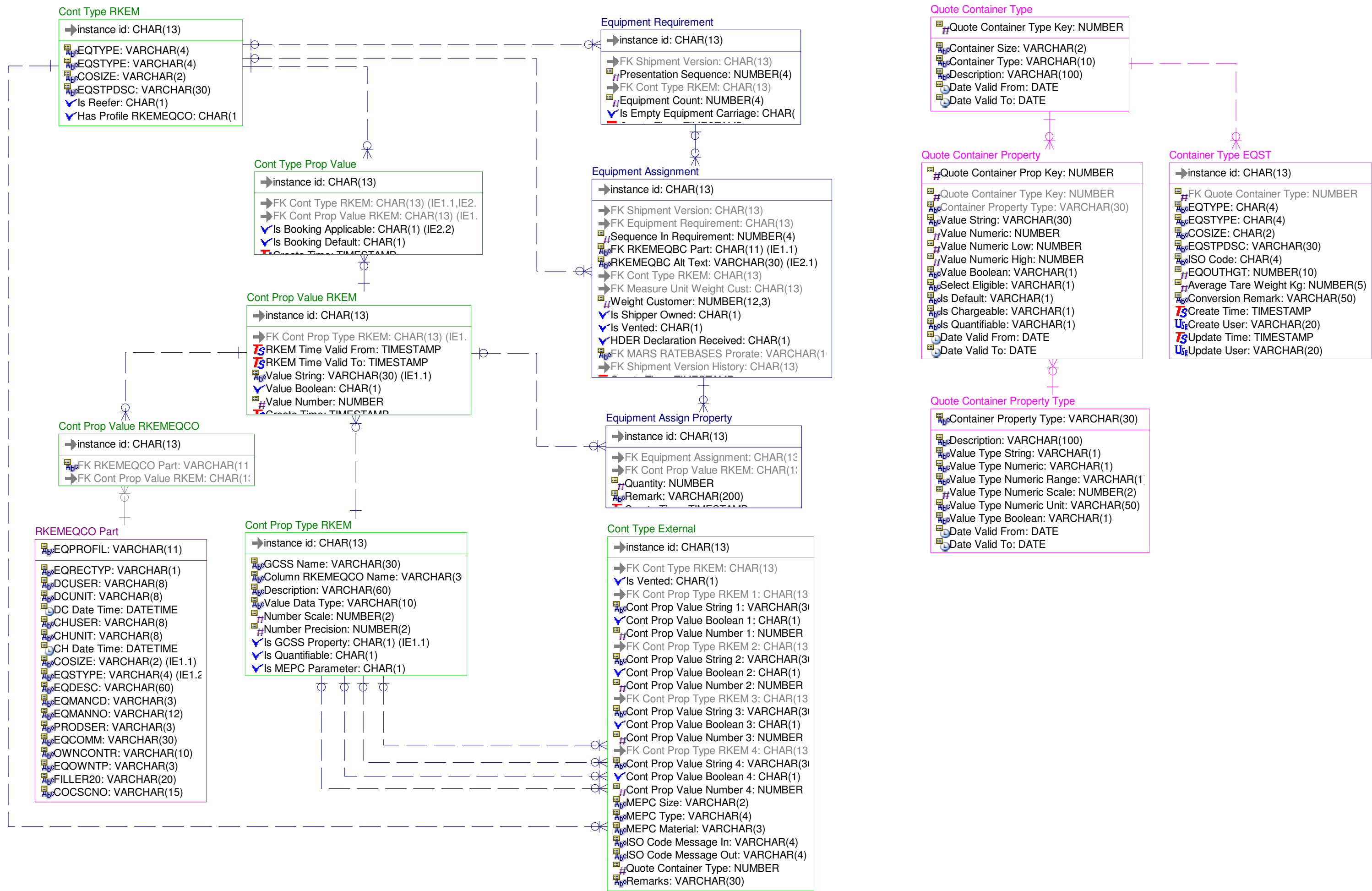
Measure Unit

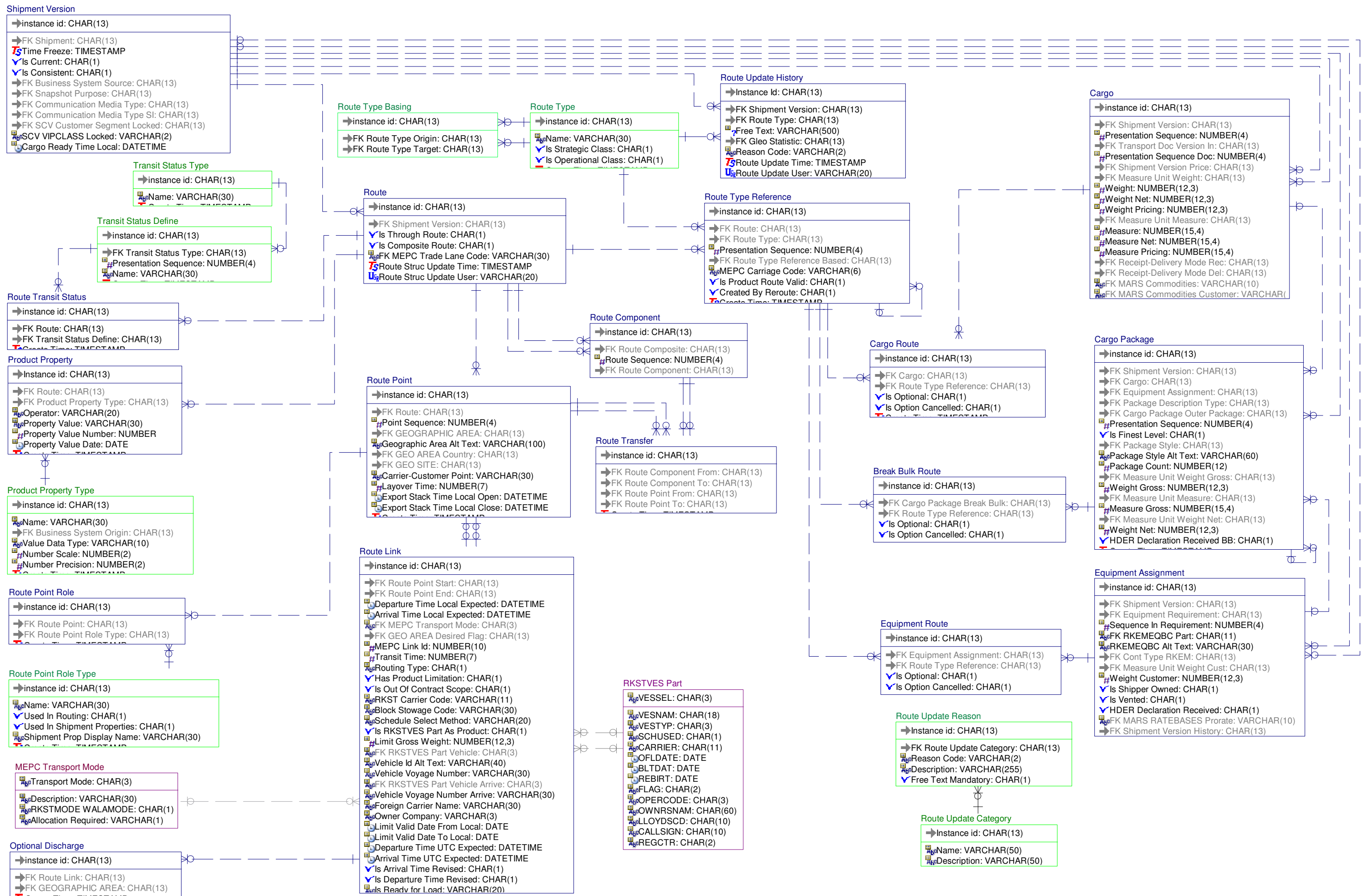
instance id: CHAR(13)
Name: VARCHAR(30)
Dimension: VARCHAR(30)
Is Metric: CHAR(1)

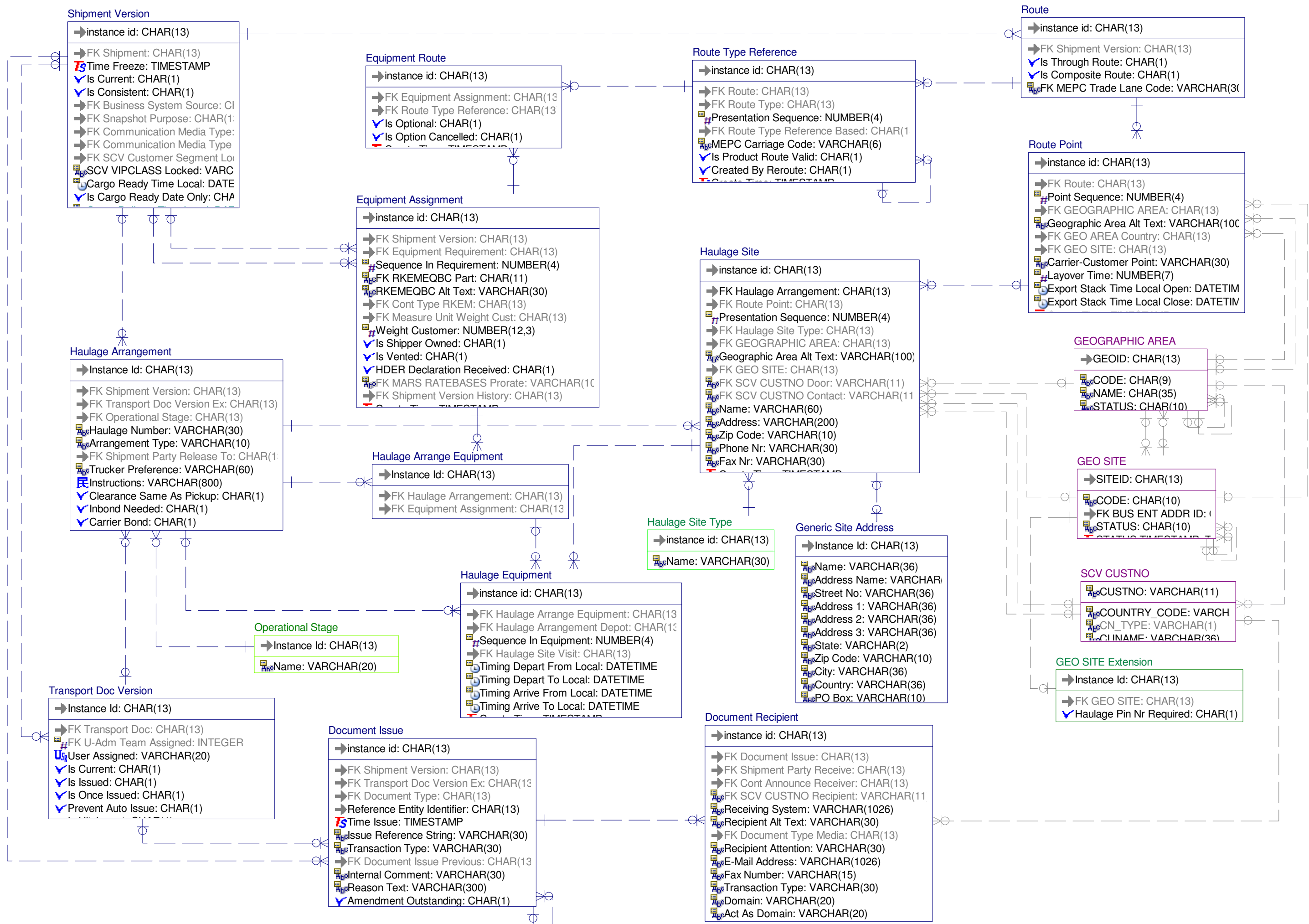
Reefer Validation Status

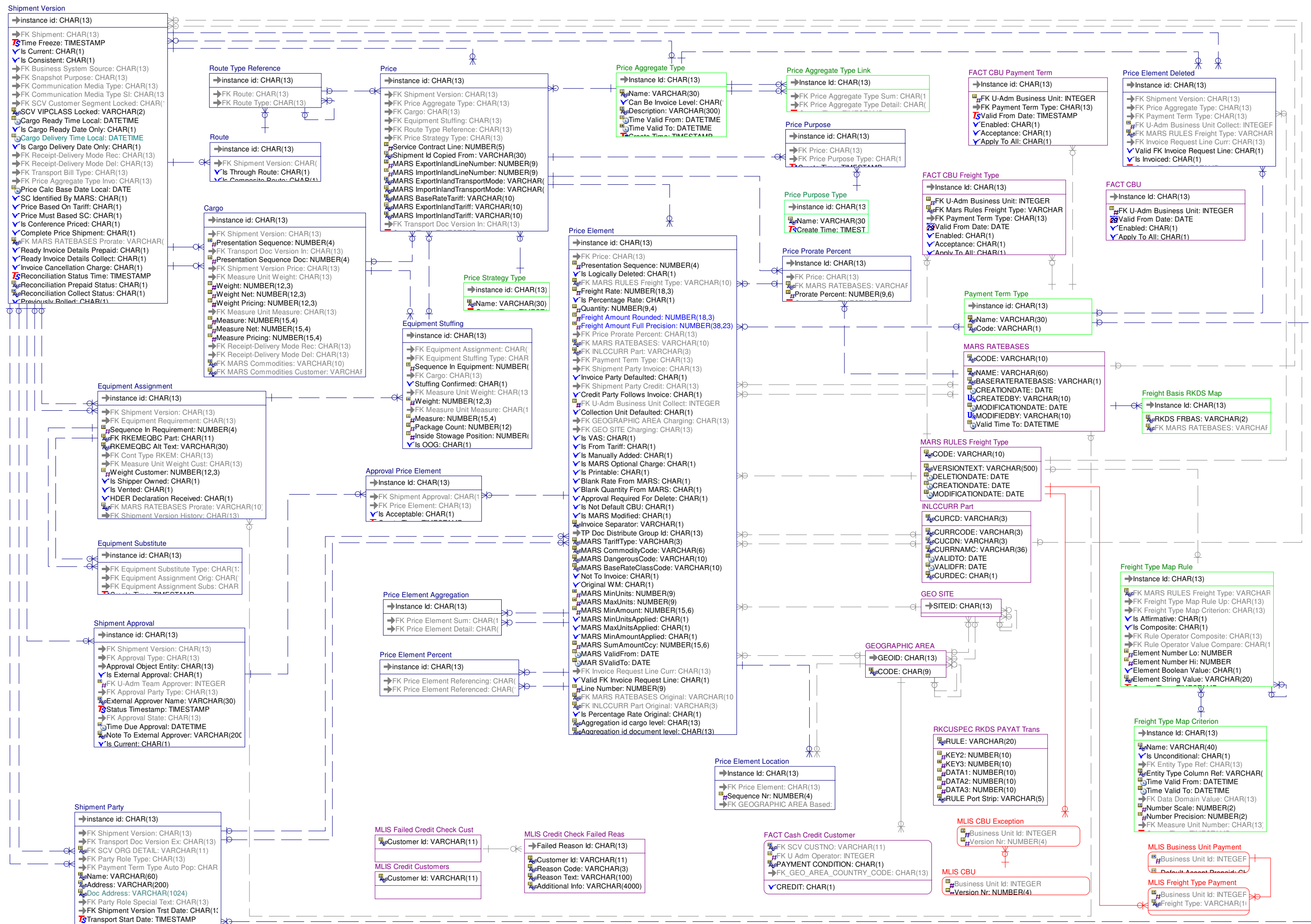
instance id: CHAR(13)
Name: VARCHAR(50)

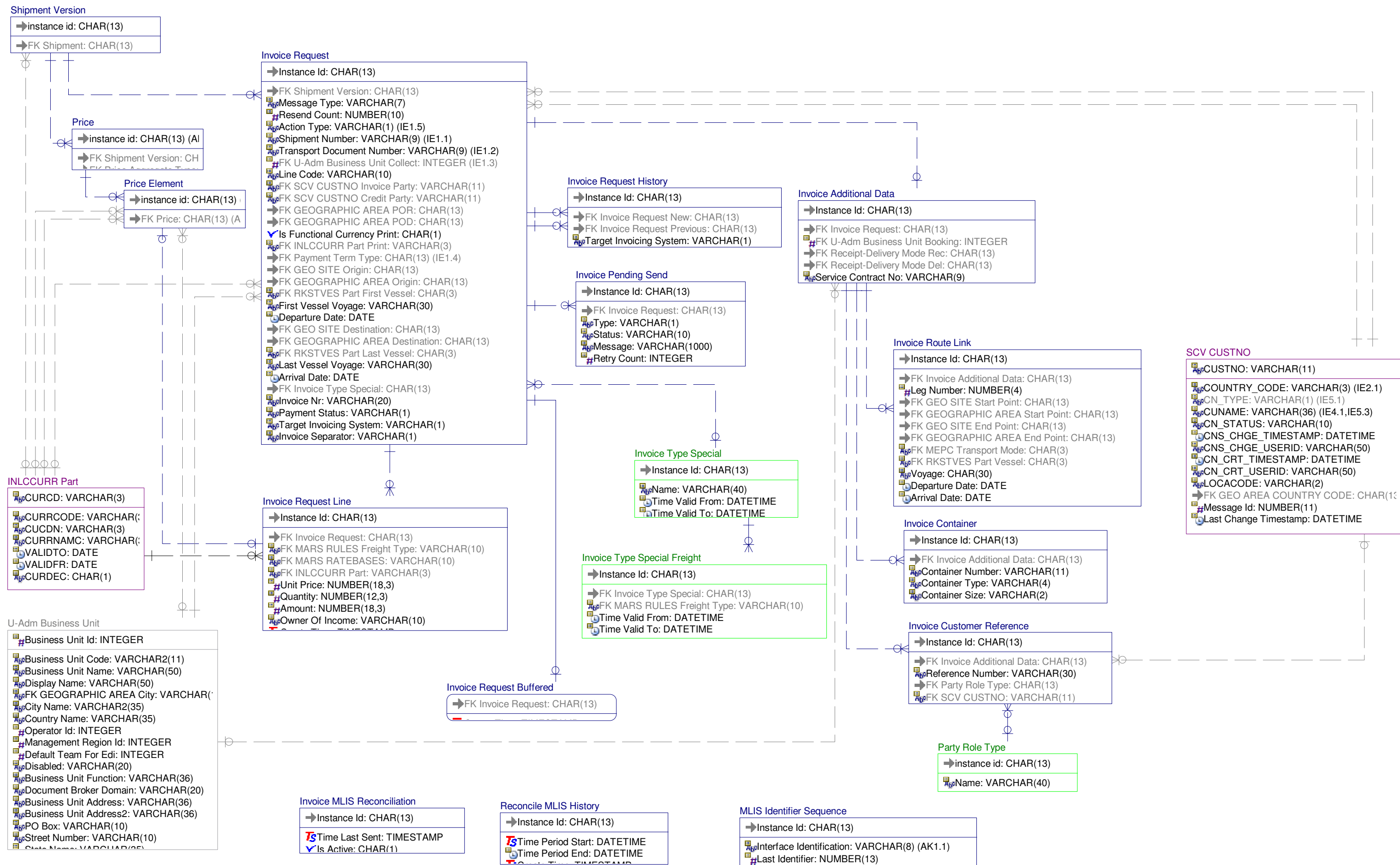












Shipment

→instance id: CHAR(13) (IE4)
→FK Shipment Domain: CHA

Shipment Version

→instance id: CHAR(13)
→FK Shipment: CHAR(13)
→Create Time: TIMESTAMP

Invoice Request

→Instance Id: CHAR(13)
→FK Shipment Version: CHAR(13)
Message Type: VARCHAR(7)
Resend Count: NUMBER(10)
Action Type: VARCHAR(1) (IE1.5)
Shipment Number: VARCHAR(9) (IE1.1)
Transport Document Number: VARCHAR(9) (IE1.1)
FK U-Adm Business Unit Collect: INTEGER (IE1.1)
Line Code: VARCHAR(10)
FK SCV CUSTNO Invoice Party: VARCHAR(11)
FK SCV CUSTNO Credit Party: VARCHAR(11)
→FK GEOGRAPHIC AREA POR: CHAR(13)
→FK GEOGRAPHIC AREA POD: CHAR(13)
Is Functional Currency Print: CHAR(1)
FK INLCCURR Part Print: VARCHAR(3)
→FK Payment Term Type: CHAR(13) (IE1.4)
→FK GEO SITE Origin: CHAR(13)
→FK GEOGRAPHIC AREA Origin: CHAR(13)
FK RKSTVES Part First Vessel: CHAR(3)
First Vessel Voyage: VARCHAR(30)
Departure Date: DATE
→FK GEO SITE Destination: CHAR(13)
→FK GEOGRAPHIC AREA Destination: CHAR(13)
FK RKSTVES Part Last Vessel: CHAR(3)
Last Vessel Voyage: VARCHAR(30)
Arrival Date: DATE
→FK Invoice Type Special: CHAR(13)
Invoice Nr: VARCHAR(20)
Payment Status: VARCHAR(1)
Target Invoicing System: VARCHAR(1)
Invoice Separator: VARCHAR(1)
→Create Time: TIMESTAMP

MLIS CBU

Business Unit Id: INTEGER
Version Nr: NUMBER(4)
Default Accept Prepaid: CHAR(1)
Default Accept Collect: CHAR(1)

Invoice Request History

→Instance Id: CHAR(13)
→FK Invoice Request New: CHAR(13)
→FK Invoice Request Previous: CHAR(13)
Target Invoicing System: VARCHAR(1)

Invoice Request Buffered

→FK Invoice Request: CHAR(13)
→Create Time: TIMESTAMP

U-Adm Business Unit

Business Unit Id: INTEGER
Business Unit Code: VARCHAR2(11)
Business Unit Name: VARCHAR(50)
Display Name: VARCHAR(50)
FK GEOGRAPHIC AREA City: VARCHAR(13)
City Name: VARCHAR2(35)
Country Name: VARCHAR(35)
Operator Id: INTEGER
Management Region Id: INTEGER
Default Team For Edi: INTEGER
Disabled: VARCHAR(20)
Business Unit Function: VARCHAR(3)
Document Broker Domain: VARCHAR(1)
Business Unit Address: VARCHAR(30)
Business Unit Address2: VARCHAR(30)
PO Box: VARCHAR(10)
Street Number: VARCHAR(10)
State Name: VARCHAR(35)
Zip Code: VARCHAR(10)
Business Unit Import Fax: VARCHAR(127)
Business Unit Export Fax: VARCHAR(127)
Business Unit Telephone: VARCHAR(127)
Business Unit Email: VARCHAR(127)

MLIS Invoice Extract Group

→Instance Id: CHAR(13)
Execution Id: NUMBER(15) (AK1.1)
Extract Id: NUMBER(15) (AK1.2)
Org Id: NUMBER(4) (AK1.3)
Number Of Orgs: NUMBER(4)
Final YN: CHAR(1)
Abort YN: CHAR(1)
Abort Message: VARCHAR(250)
GCSS Status: VARCHAR(13)
Interface Status: VARCHAR(20)
IXLS Total: NUMBER(10)
IXLS Finished: NUMBER(10)
Owner Process: VARCHAR(266)
Process Attempts: NUMBER(2)
→Create Time: TIMESTAMP

MLIS Invoice Extract Element

→Instance Id: CHAR(13)
→FK MLIS Invoice Extract Group: CHAR(13)
Invoice Req Id: CHAR(13)
Customer TRX Line: NUMBER(15)
MLIS Batch Source: VARCHAR(10)
PAYAT: VARCHAR(3)
Transport Doc No: VARCHAR(9) (IE1.1)
Prepaid Collect: CHAR(1)
Invoice Party: VARCHAR(15)
Unit Price: NUMBER(15,3)
Line Amount: NUMBER(15,3)
Currency Code: VARCHAR(3)
UOM: VARCHAR(3)
Item Code: VARCHAR(3)
MLIS TRX Number: VARCHAR(20)
MLIS Payment Status: CHAR(1)
Action Status: CHAR(1)
GCSS Status: VARCHAR(12)
GCSS Note: VARCHAR(512)
Process Attempts: NUMBER(2)
→Create Time: TIMESTAMP

Event Business Unit Log

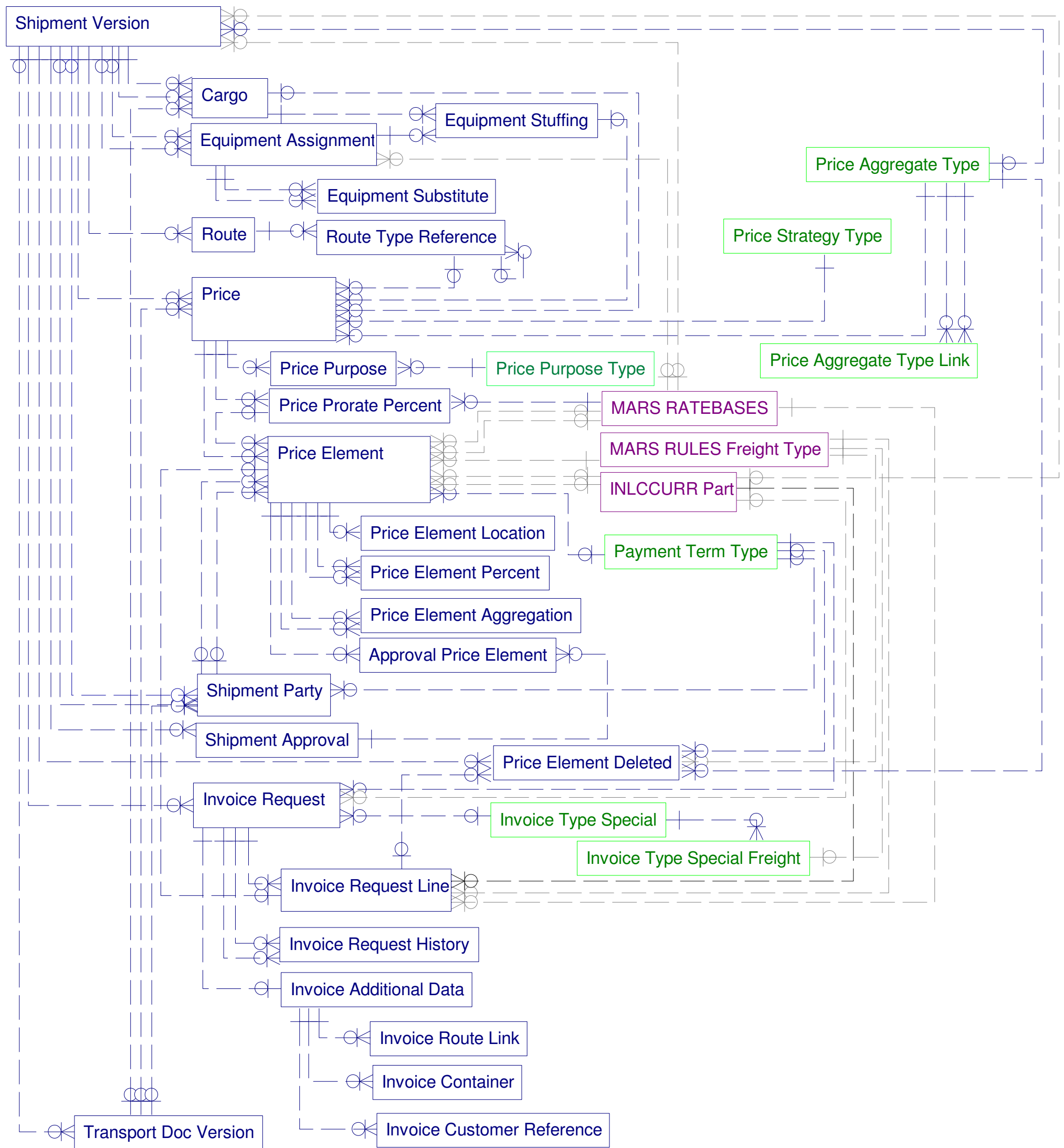
→Instance Id: CHAR(13)
→FK Shipment: CHAR(13)
→FK Event Subscription: CHAR(13)
FK U-Adm Business Unit Collect: INTEGER
Event Sequence Number: NUMBER(21)
Event Flag: CHAR(1)
→Create Time: TIMESTAMP

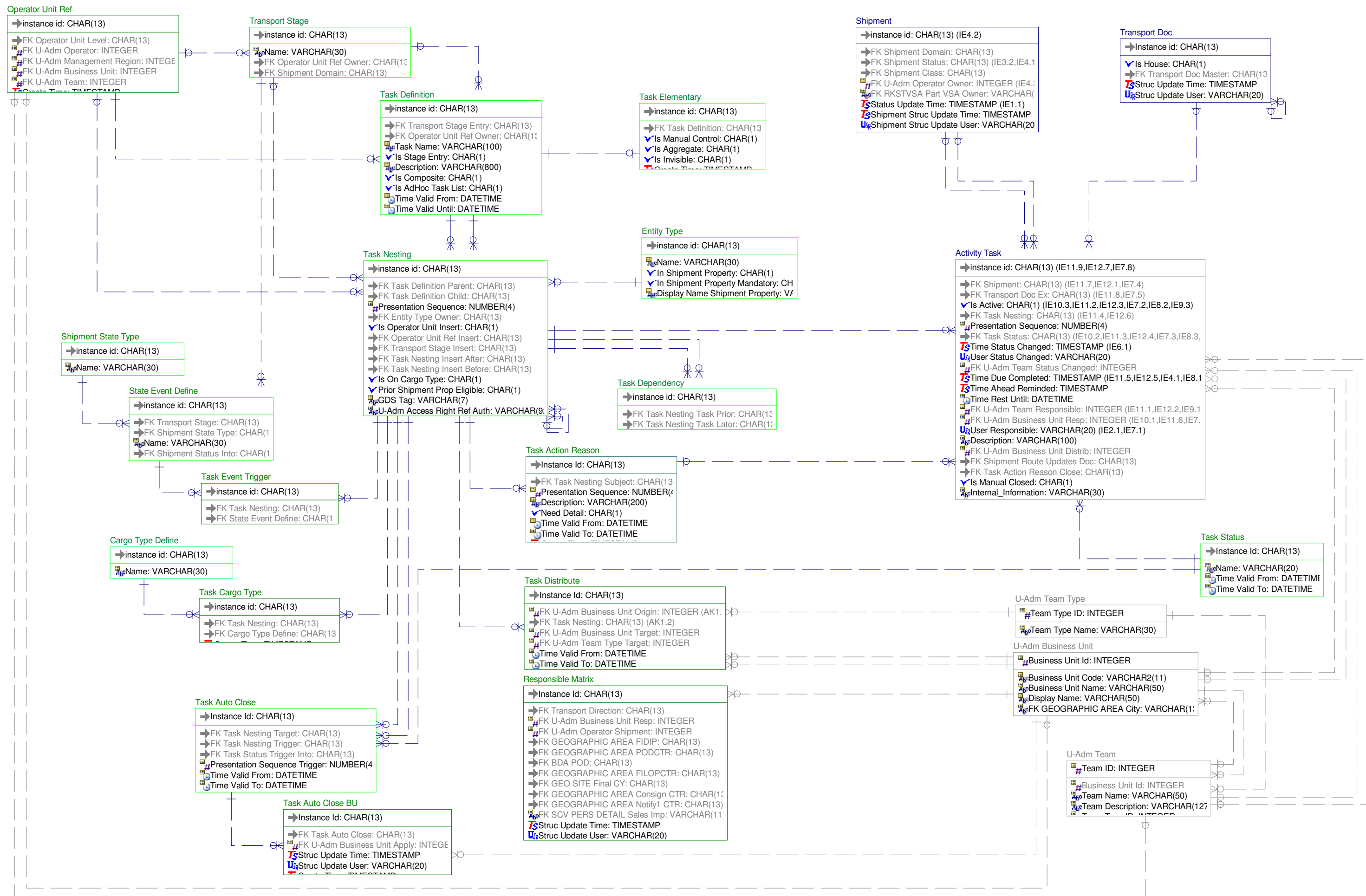
FACT CBU

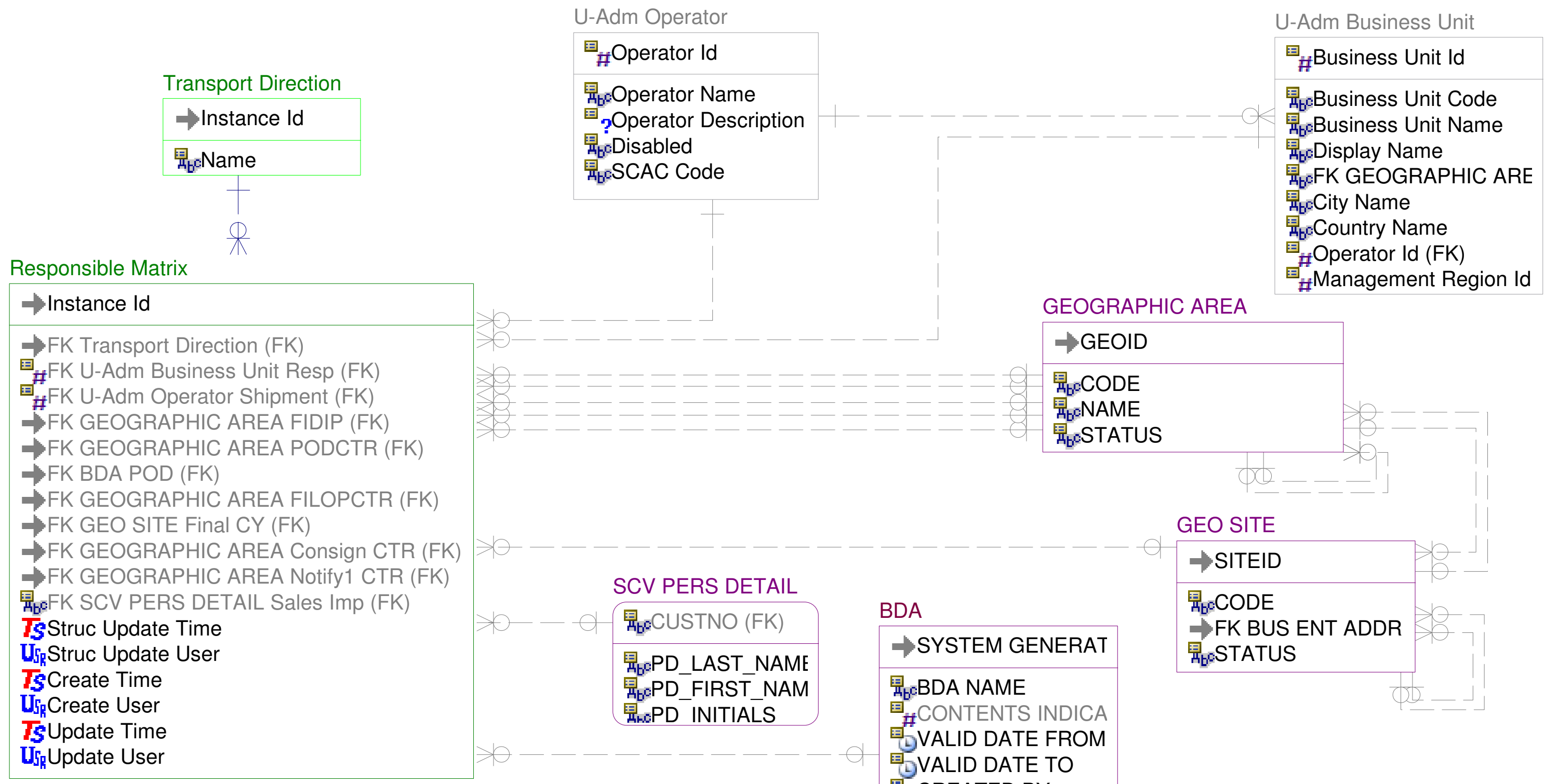
→Instance Id: CHAR(13)
FK U-Adm Business Unit: INTEGER (AK1.1)
Valid From Date: DATE (AK1.2)
Enabled: CHAR(1)
Apply To All: CHAR(1)
→Create Time: TIMESTAMP

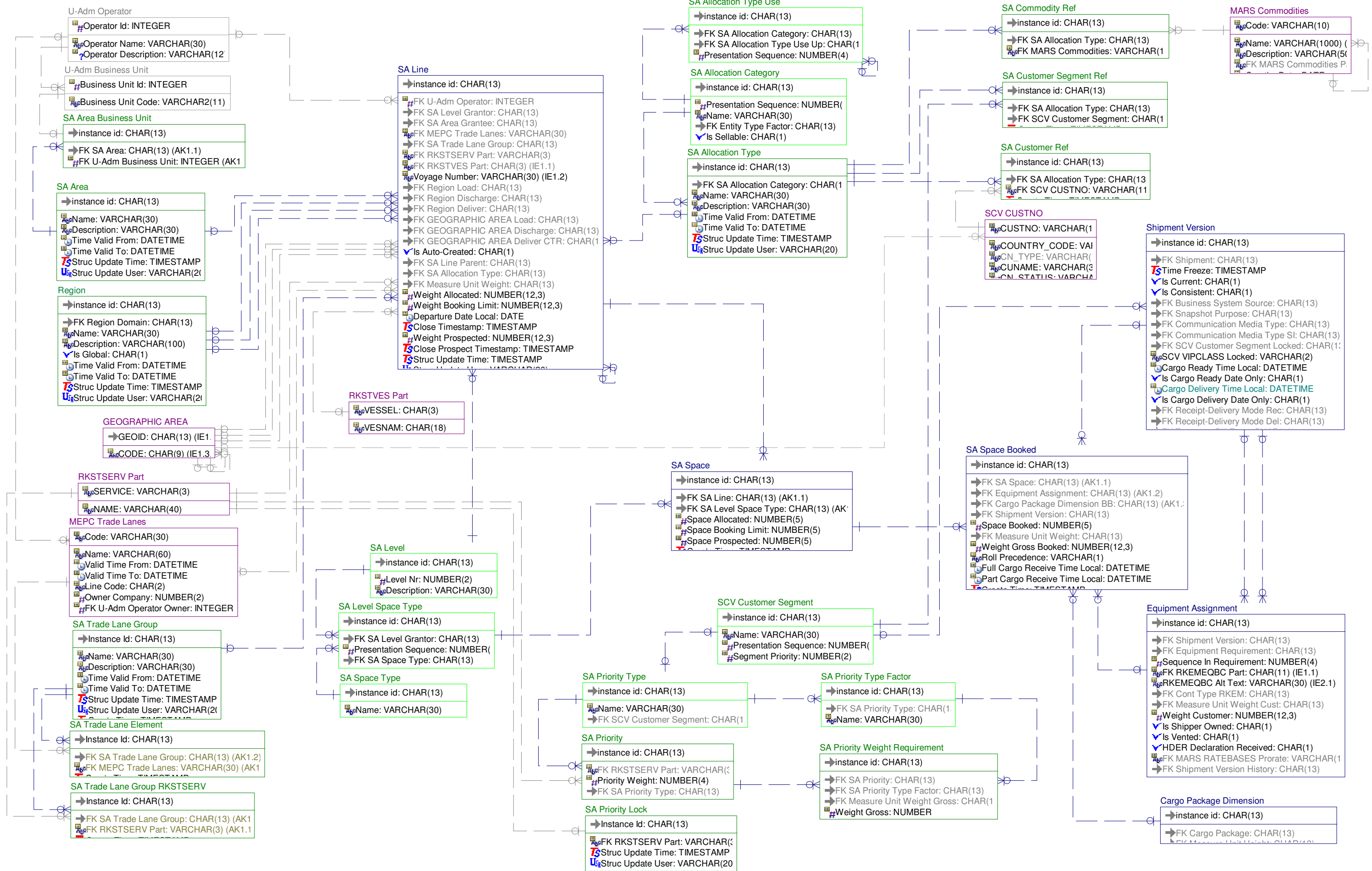
RKCUSPEC RKDS PAYAT Trans

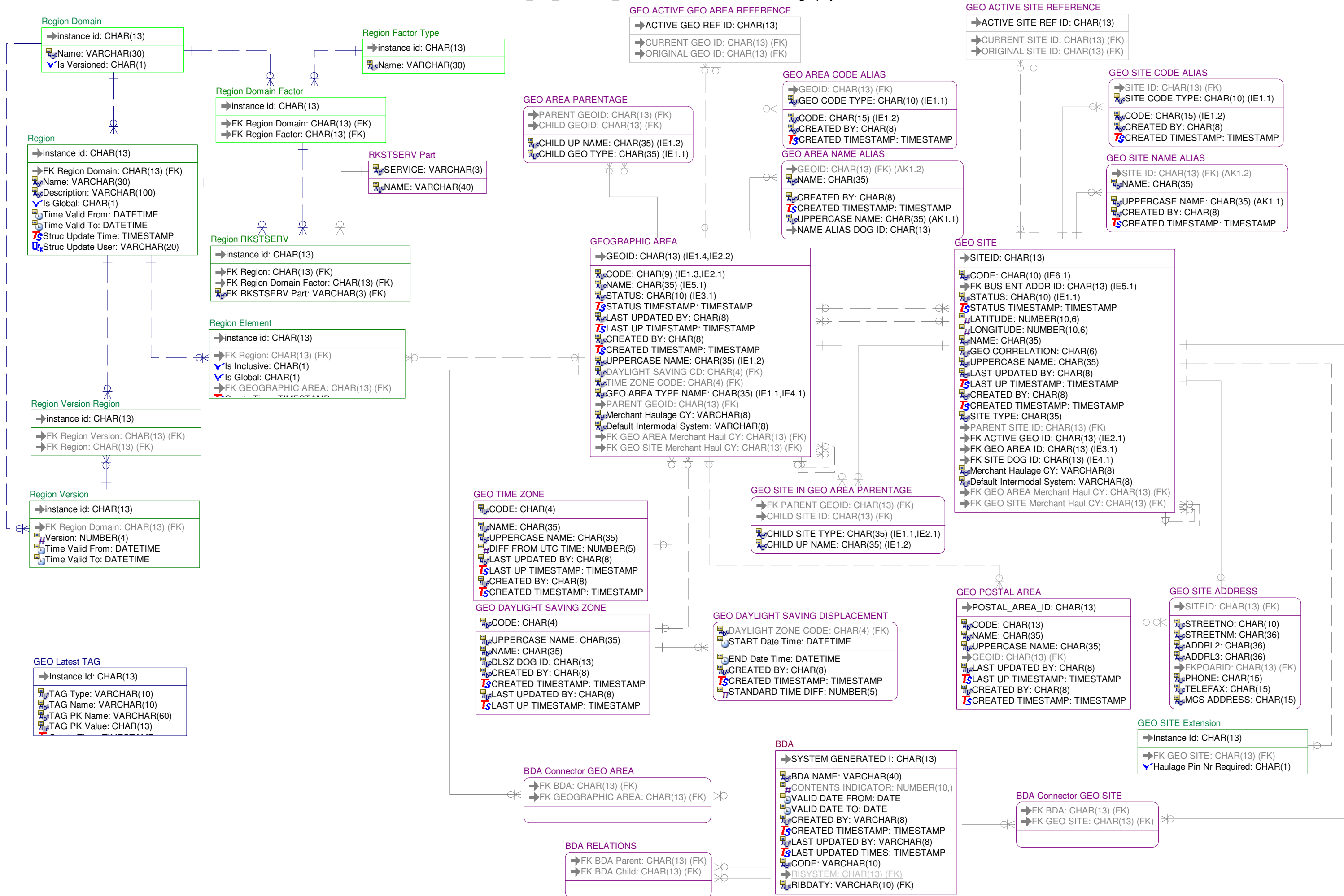
RULE: VARCHAR(20)
KEY2: NUMBER(10)
KEY3: NUMBER(10)
DATA1: NUMBER(10)
DATA2: NUMBER(10)
DATA3: NUMBER(10)
RULE Port Strip: VARCHAR(5) (IE1.1)



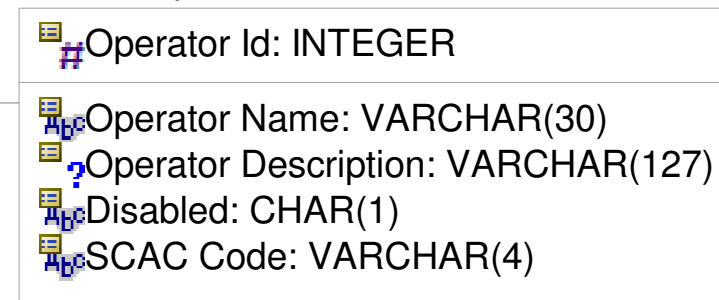




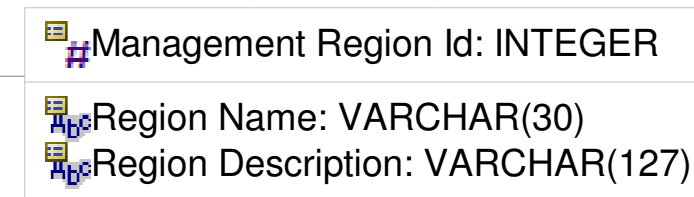




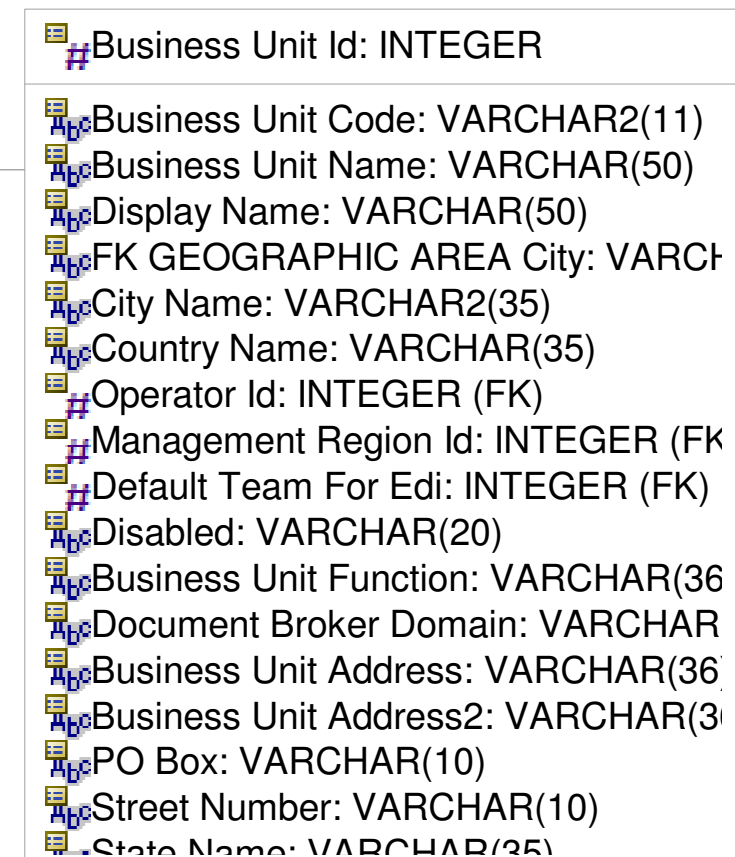
U-Adm Operator



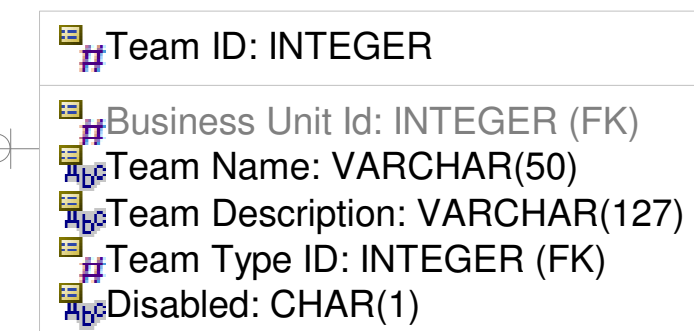
U-Adm Management Region



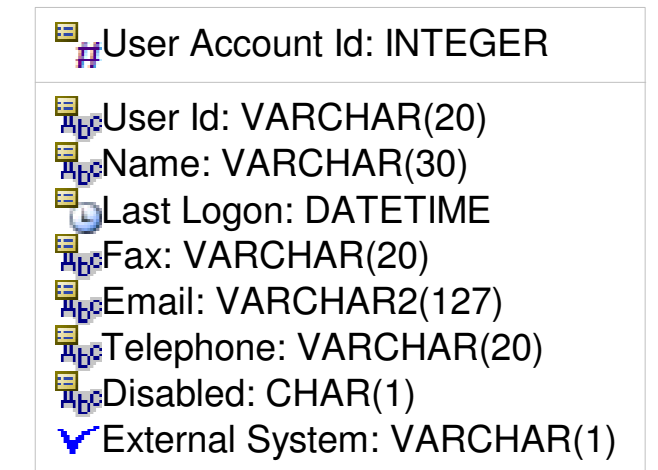
U-Adm Business Unit



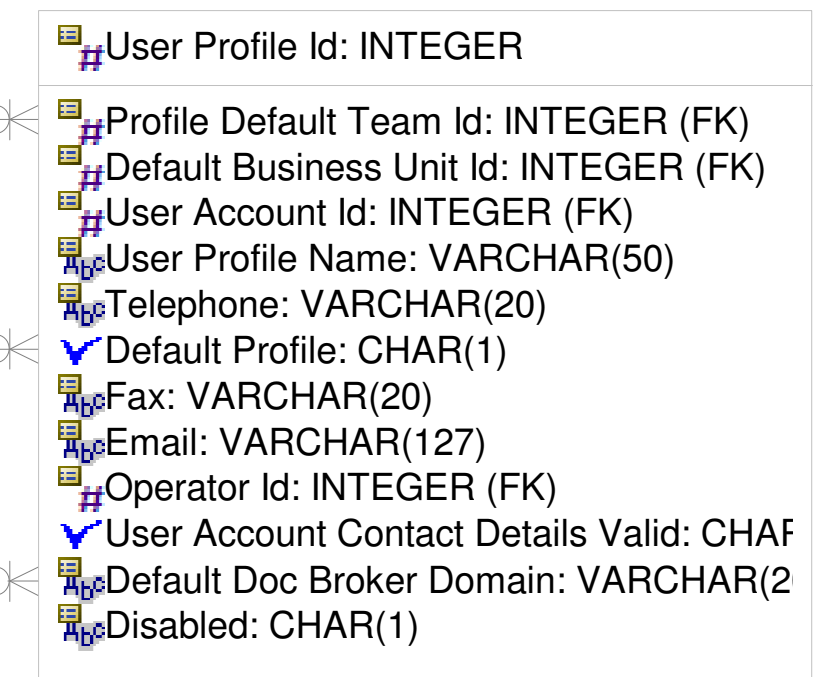
U-Adm Team



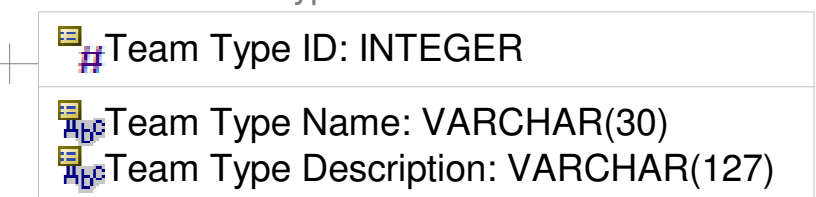
U-Adm User Account



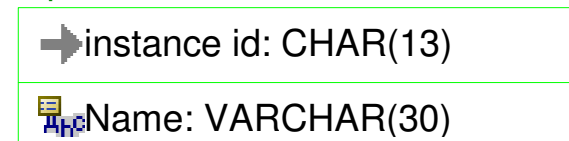
U-Adm User Profile



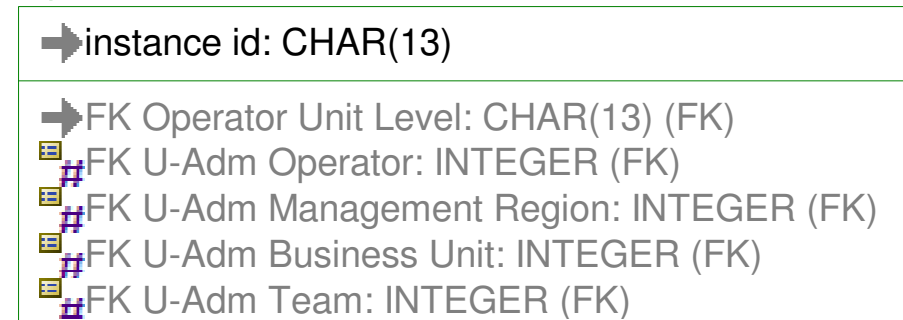
U-Adm Team Type

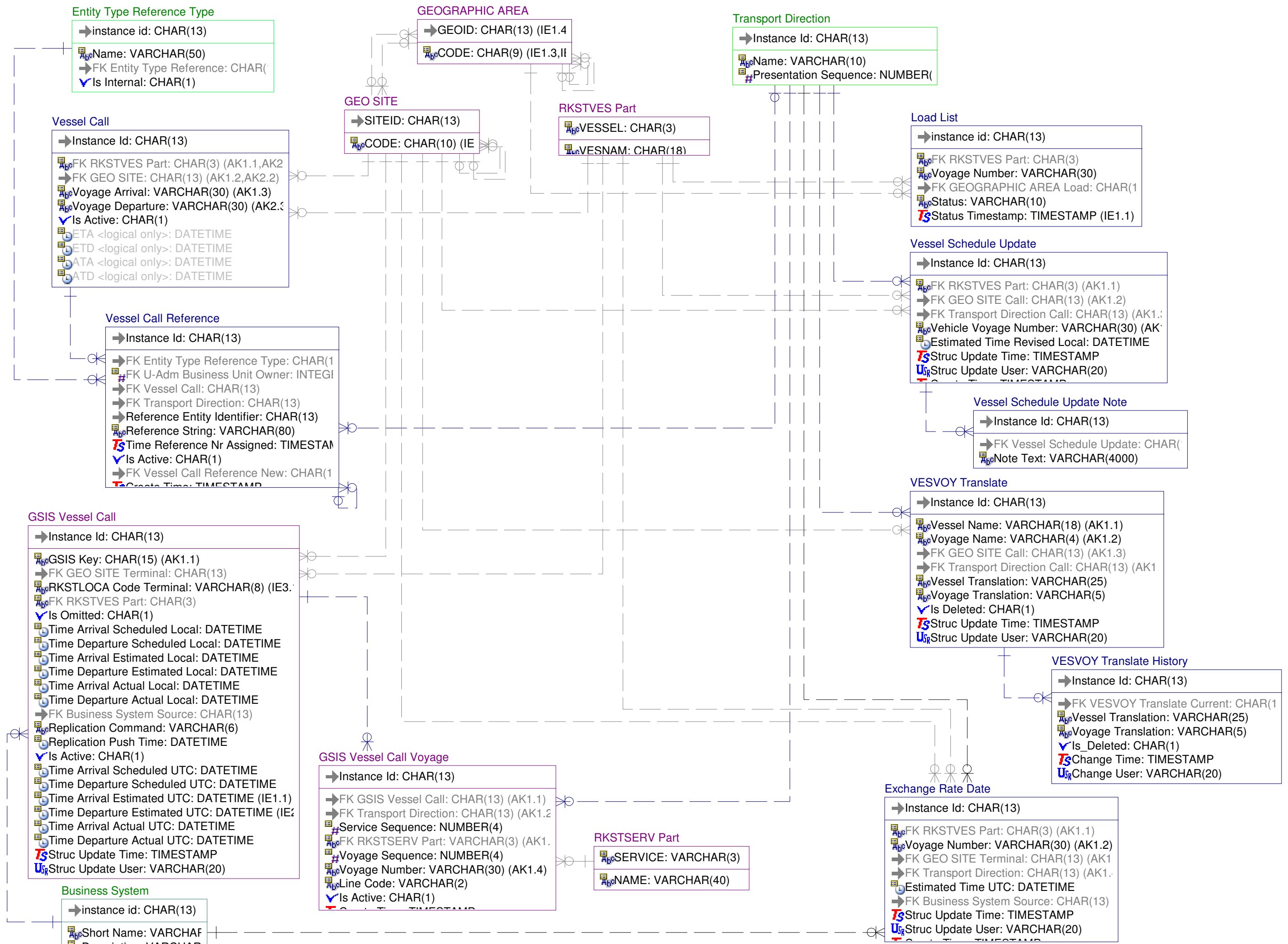


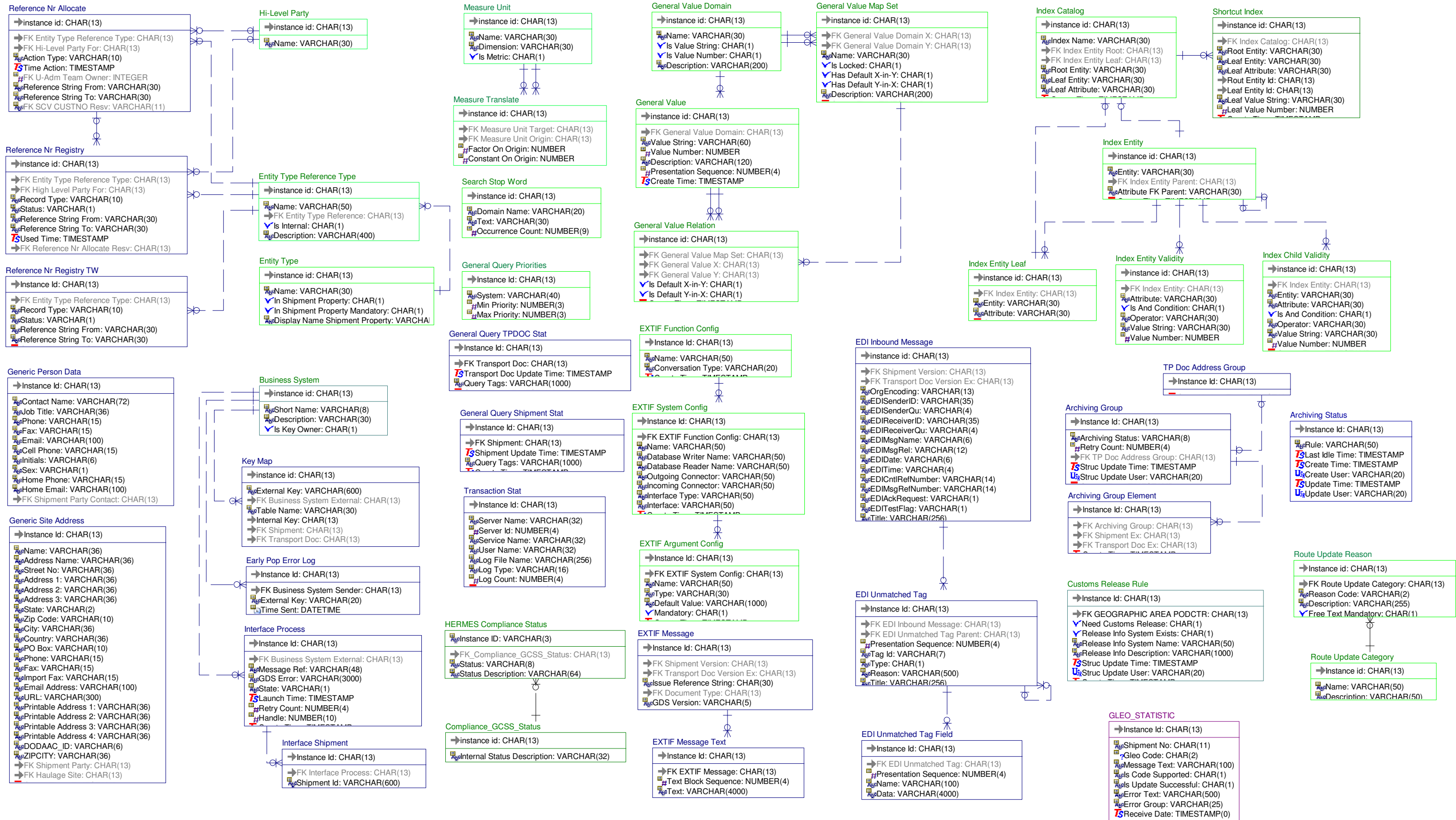
Operator Unit Level

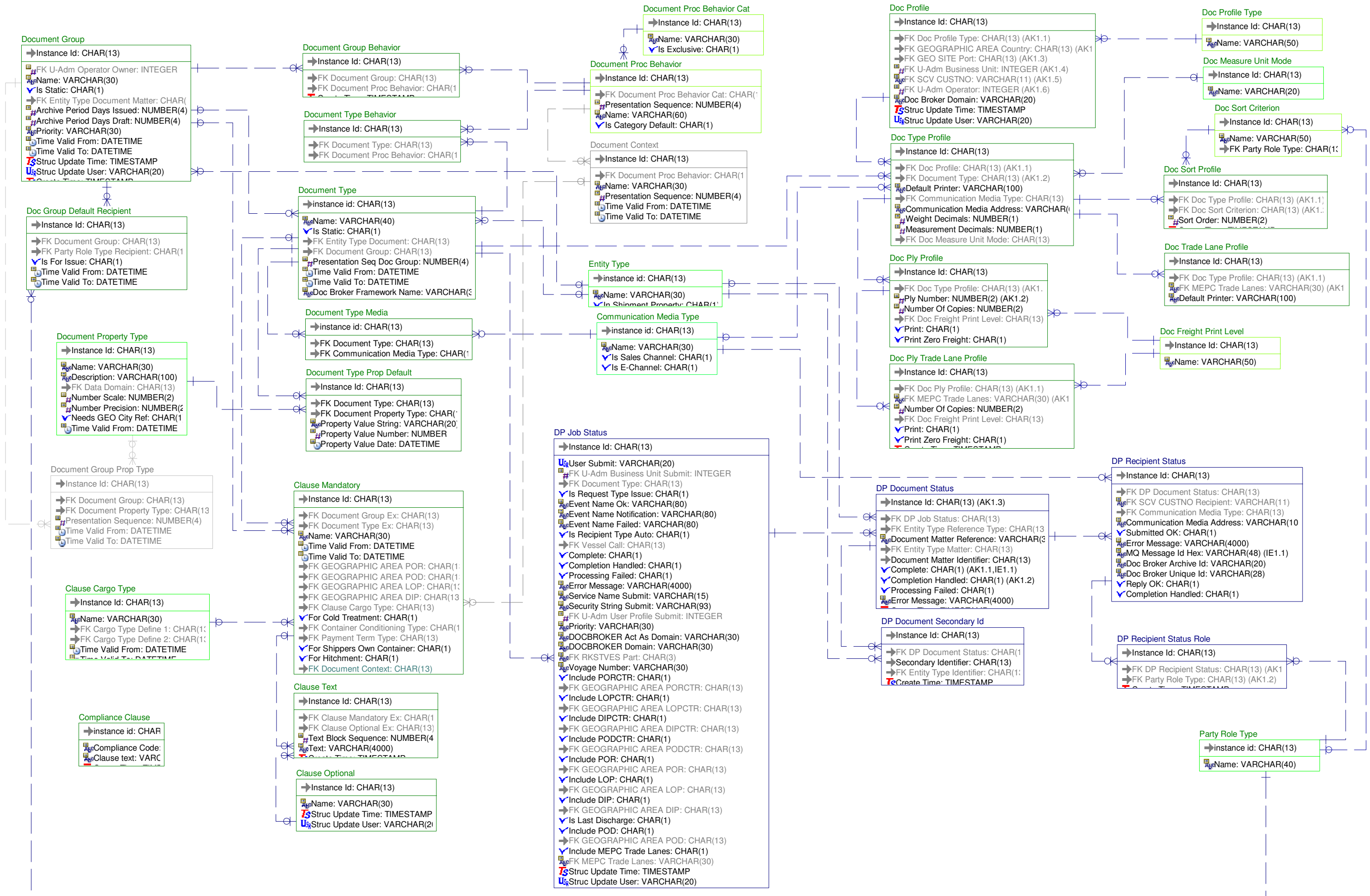


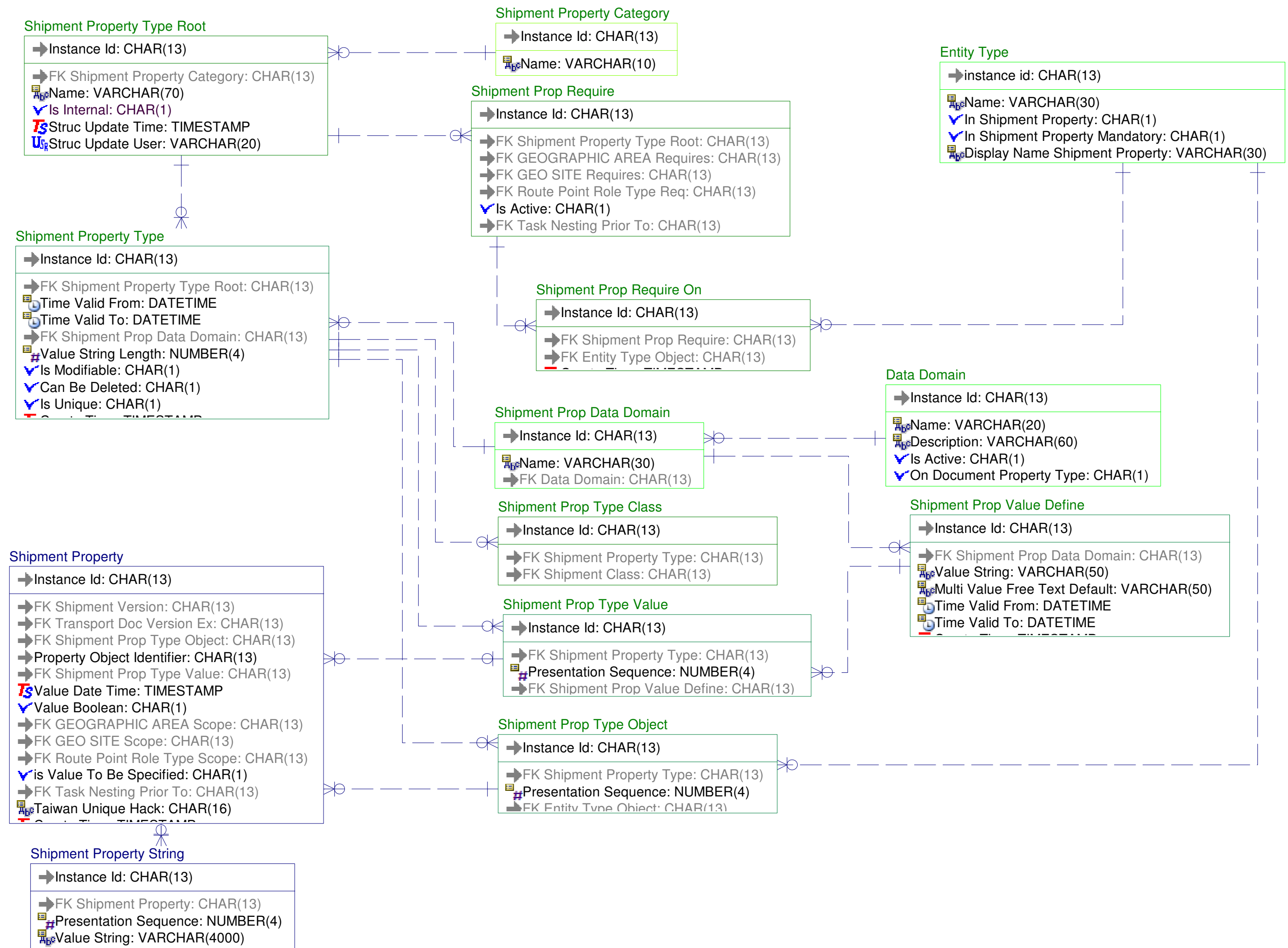
Operator Unit Ref



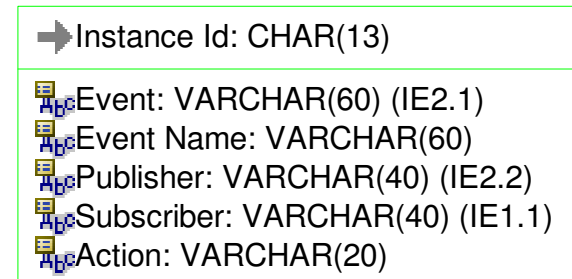




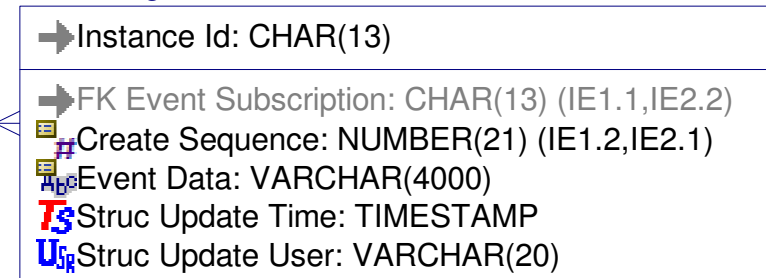




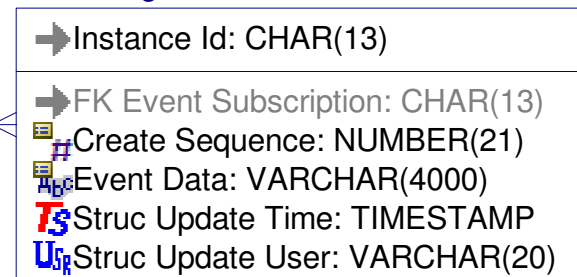
Event Subscription



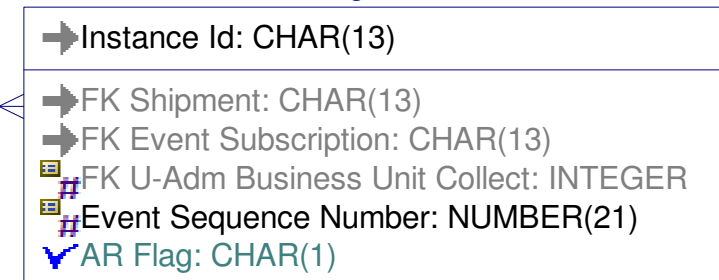
Event Log



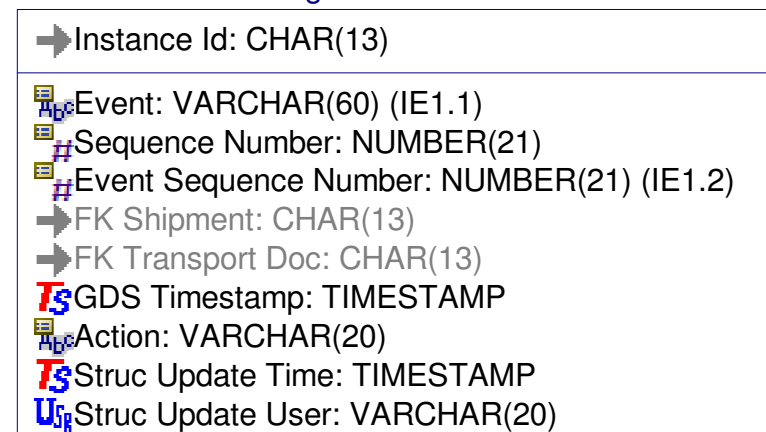
Event Log Error



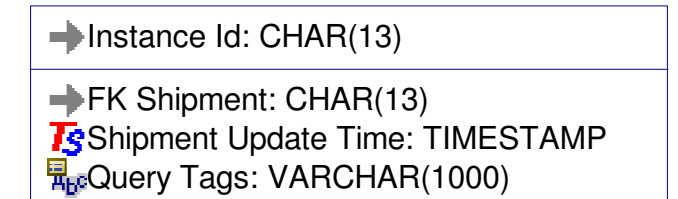
Event Business Unit Log



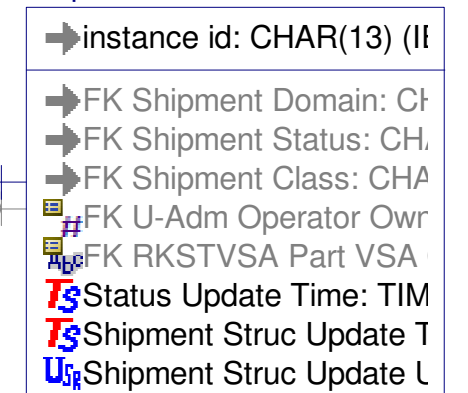
Event Distribution Log



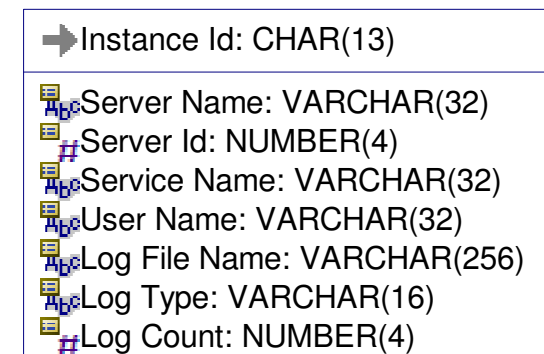
General Query Shipment Stat



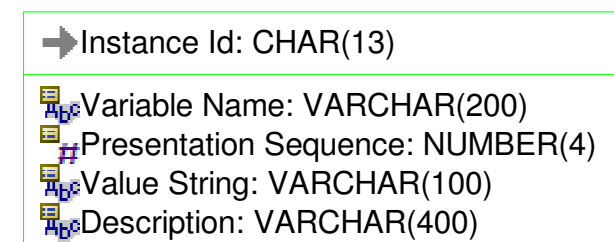
Shipment



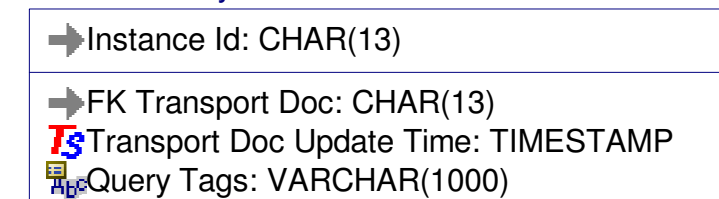
Transaction Stat



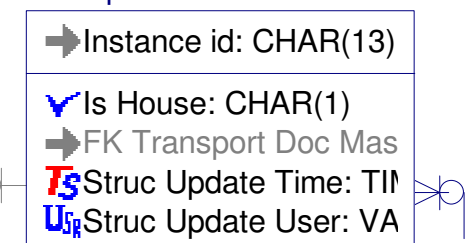
GCSS Parameter

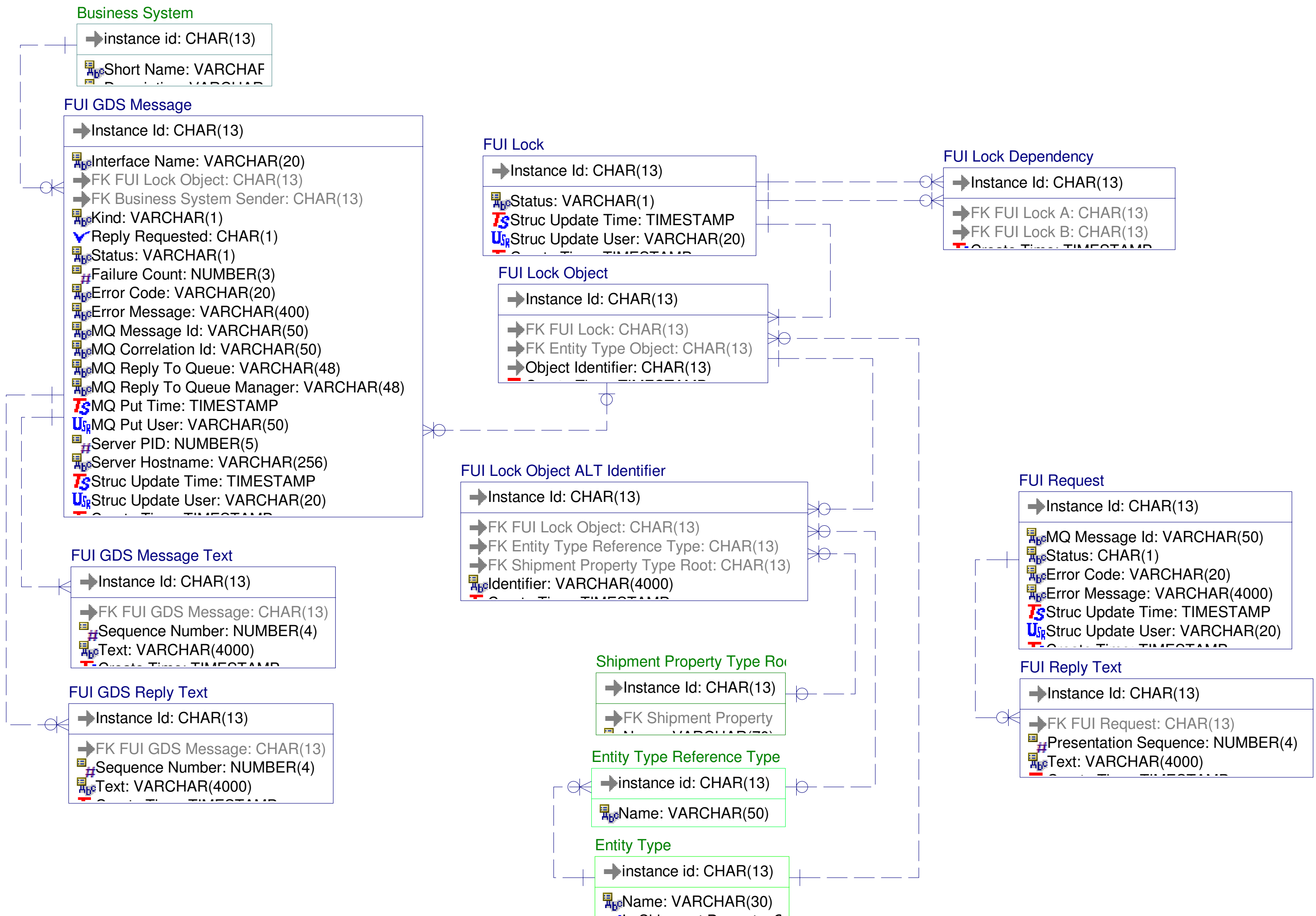


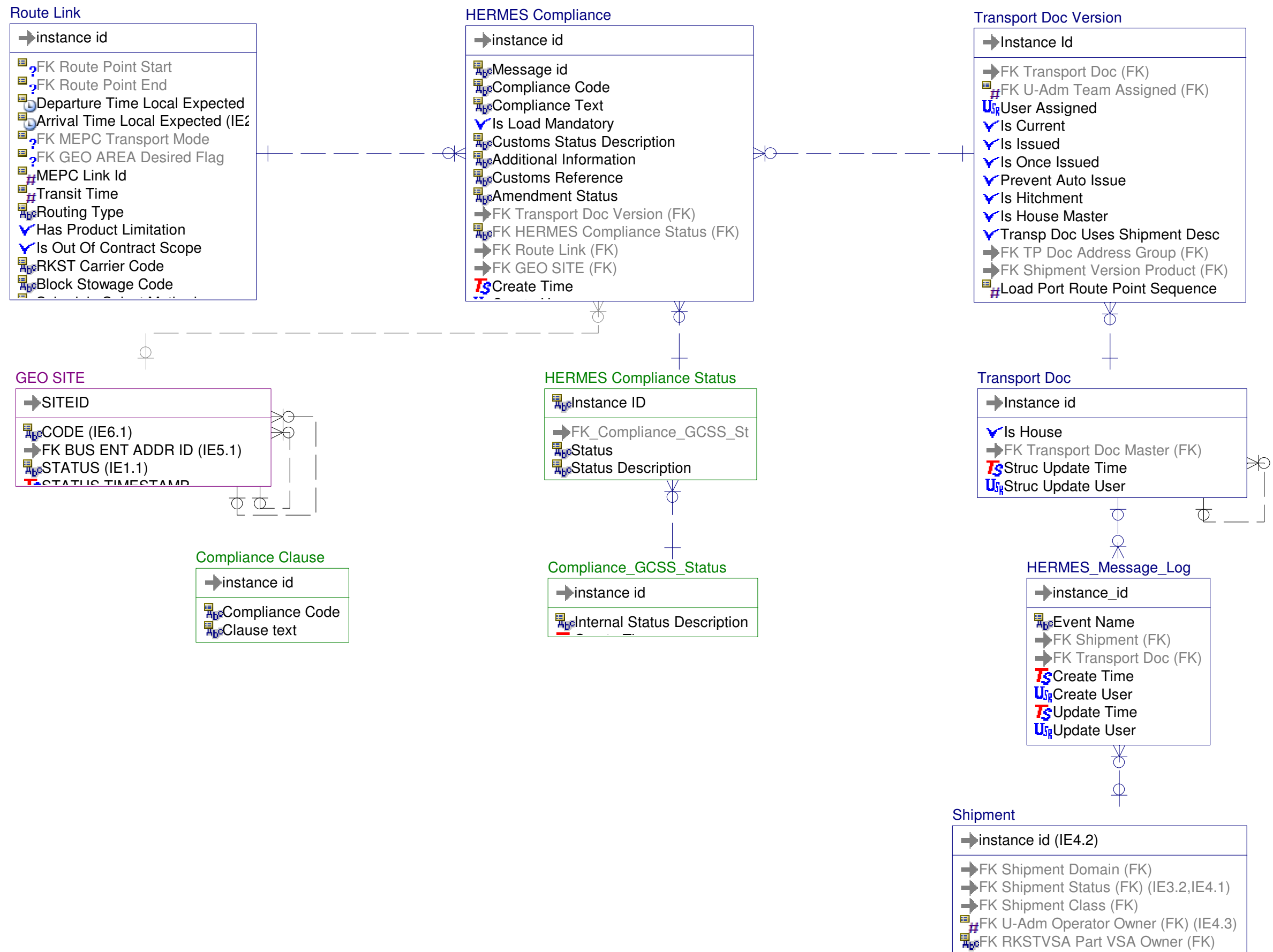
General Query TPD OC Stat

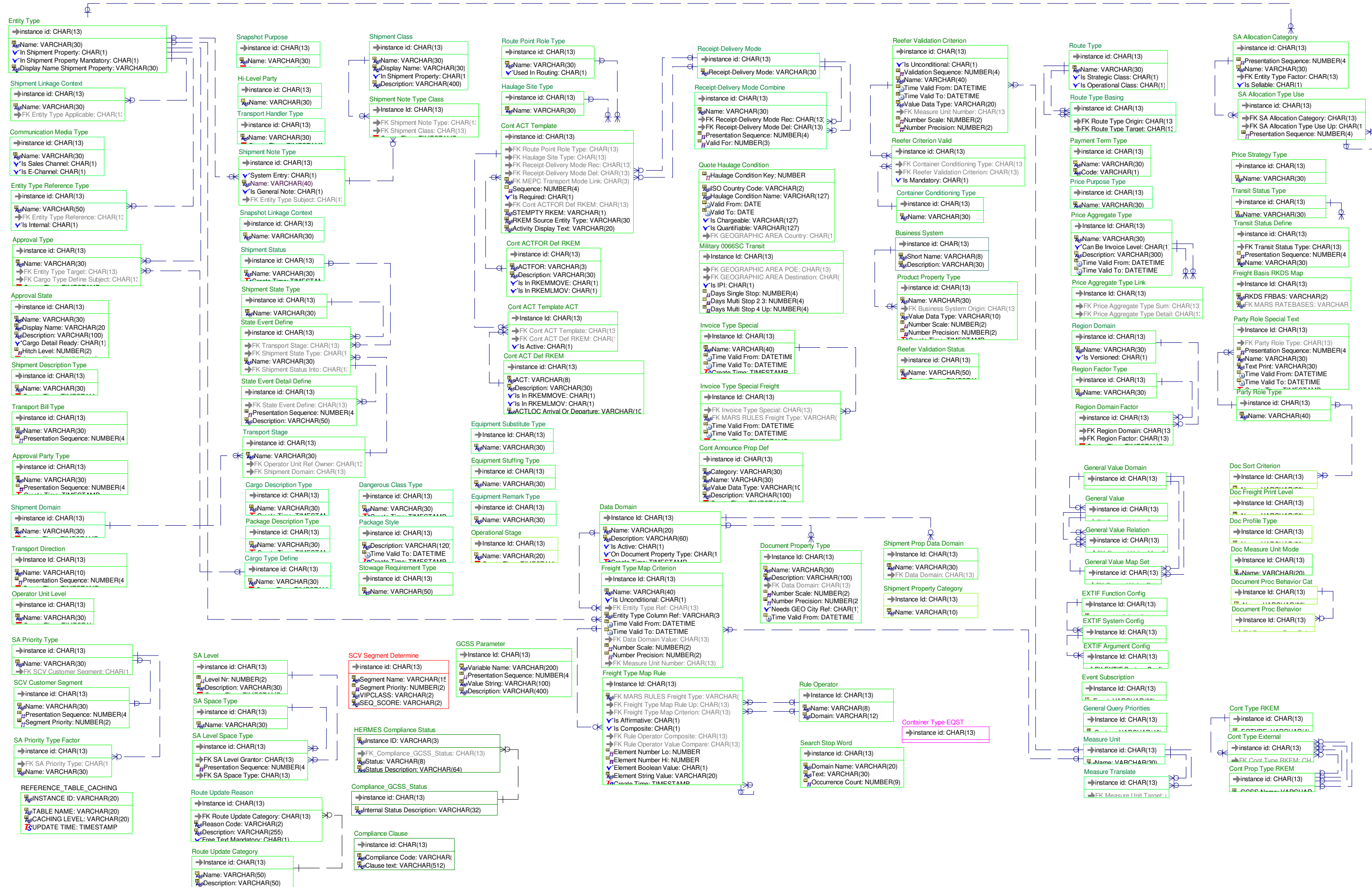


Transport Doc

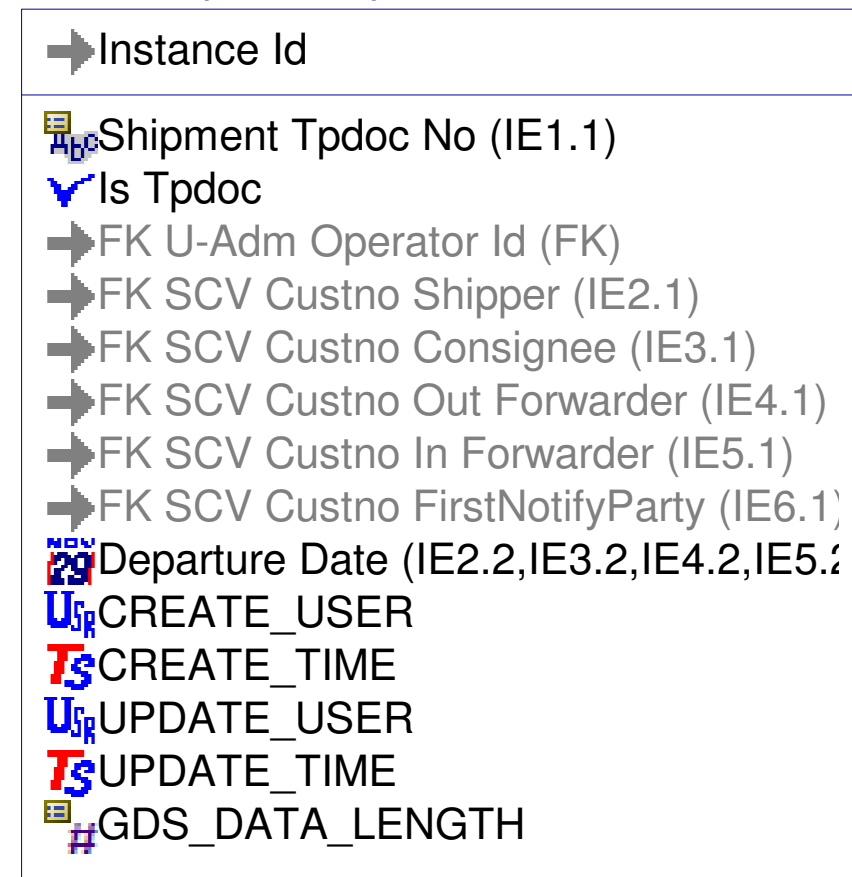






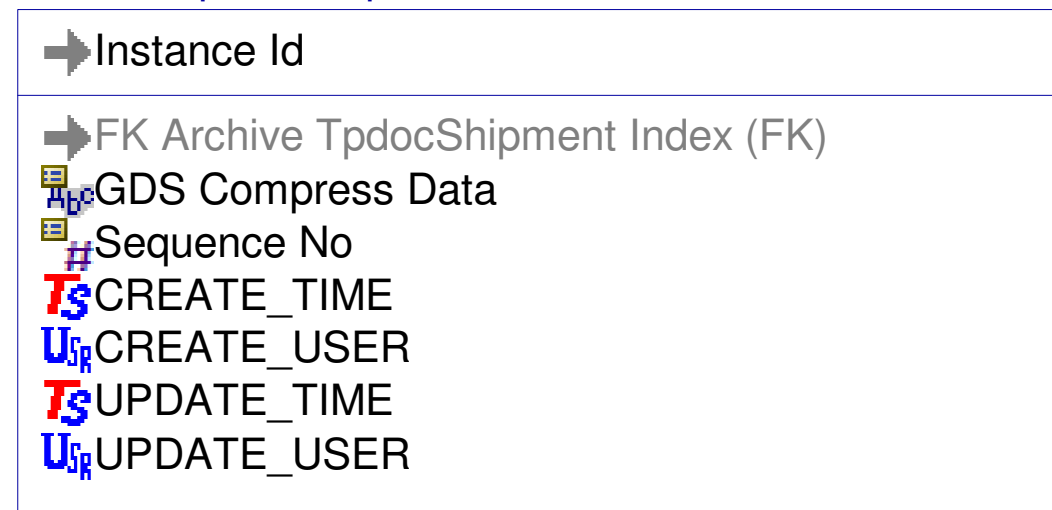


Archive Tpdoc Shipment Index

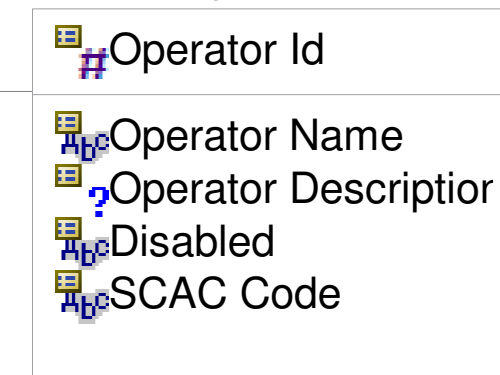


Refers to

Archive Tpdoc Shipment GDS



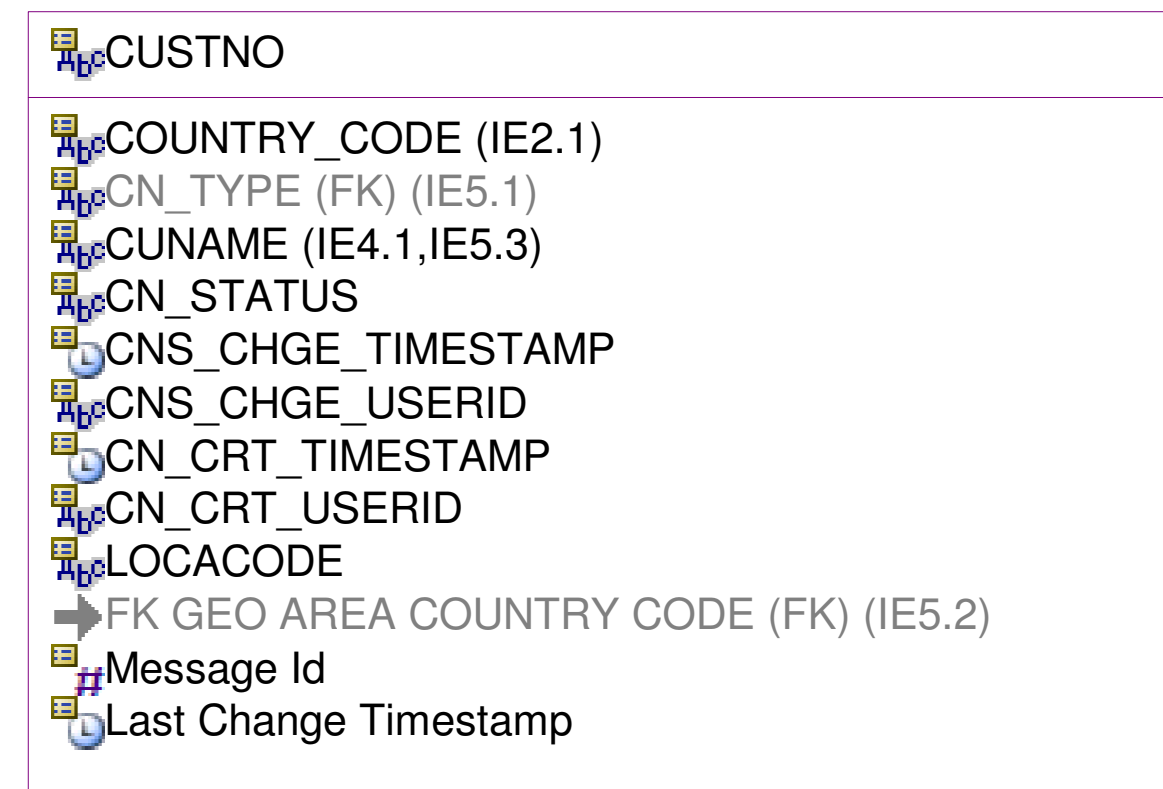
U-Adm Operator



Is Part of

Contains

SCV CUSTNO



Mail Domain Server Details

→Instance Id: CHAR(13)
AppIP Address: VARCHAR(20)
AppPOP3_PORT: INTEGER
→FK Mail Domain Server: CHAR(13) (FK)
AppPreference: NUMBER(4)
AppTsCreate Time: TIMESTAMP
AppUsrCreate User: VARCHAR(20)
AppTsUpdate Time: TIMESTAMP

Mail Domain Server

→Instance Id: CHAR(13)
AppDomain Name: VARCHAR(10)
AppIsActive: CHAR(1)
AppTsMail Server Struc Update Time: TIMESTAMP
AppUsrMail Server Struc Update User: VARCHAR(20)

U-Adm User Account

App#User Account Id: INTEGER
AppUser Id: VARCHAR(20)
AppName: VARCHAR(30)
AppLast Logon: DATETIME
AppFax: VARCHAR(20)
AppEmail: VARCHAR2(127)
AppTelephone: VARCHAR(20)
AppDisabled: CHAR(1)
AppExternal System: VARCHAR(20)

Mailbox Details

→Instance Id: CHAR(13)
AppMail User Id: VARCHAR(30)
AppMail Password Digest: VARCHAR(30)
AppType: VARCHAR(20)
→FK Mail Domain Server: CHAR(13) (FK)
→FK Spam Mailbox: CHAR(13) (FK)
→FK Archive Mailbox: CHAR(13) (FK)
AppTsCreate Time: TIMESTAMP

User Mailbox

→Instance Id: CHAR(13)
AppUser Id: VARCHAR(20)
→FK Mailbox Details: CHAR(13) (FK)
AppDefault Mail Box: CHAR(1)
AppTsCreate Time: TIMESTAMP

Image Data Details

→Instance Id: CHAR(13)
AppSequence Number: NUMBER(10)
AppImage Data: VARCHAR(4096)
→Fk Image: CHAR(13) (FK)
AppTsCreate Time: TIMESTAMP

Email Content Details

→Instance Id: CHAR(13)
→FK Email Information: CHAR(13) (FK)
AppMail Content: VARCHAR(4096)
AppSequence Number: NUMBER(5)
AppTsCreate Time: TIMESTAMP

Email Information

→Instance Id: CHAR(13)
AppUIDL: VARCHAR(100)
→FK Mail Status: CHAR(13) (FK)
→FK Mailbox Details: CHAR(13) (FK)
AppTsRead Time: TIMESTAMP
AppTsIndex Time: TIMESTAMP
AppUsrIndexer User Id: VARCHAR(20)
AppSender: VARCHAR(35)
AppSubject: VARCHAR(40)
AppTsFetch Time: TIMESTAMP
AppTsMail Recv Time: TIMESTAMP
AppHigh Priority: CHAR(1)
AppTsCreate Time: TIMESTAMP
AppUsrCreate User: VARCHAR(20)

Mail Status

→Instance Id: CHAR(13)
AppMail Status: VARCHAR(10)
AppPriority: NUMBER(10)
AppTsCreate Time: TIMESTAMP

Image

→Instance Id: CHAR(13)
→FK Email Information: CHAR(13) (FK)
AppImg Page No: NUMBER(10)
AppTsCreate Time: TIMESTAMP

Rejected Image

→Instance Id: CHAR(13)
AppUsrCSA User Id: VARCHAR(20)
→FK Email Information: CHAR(13) (FK)
AppEQPNO: VARCHAR(11)
AppBooking Number: VARCHAR(11)
AppBusiness Address: VARCHAR(127)
AppVessel Code: VARCHAR(30)
AppVoyage: VARCHAR(30)
AppStart Point: VARCHAR(50)
AppEnd Point: VARCHAR(50)
AppComment Indexer: VARCHAR(240)
AppComment CSA: VARCHAR(240)
AppStatus: VARCHAR(10)
AppProcess Date: TIMESTAMP
AppIs Active: CHAR(1)
AppTsCreate Time: TIMESTAMP
AppUsrCreate User: VARCHAR(20)
AppTsUpdate Time: TIMESTAMP

DGD Document

→Instance Id: CHAR(13)
→FK Cargo Package: CHAR(13) (FK)
→FK Image: CHAR(13) (FK)
AppIsDGD: CHAR(1)
AppTsCreate Time: TIMESTAMP
AppUsrCreate User: VARCHAR(20)

Cargo Package

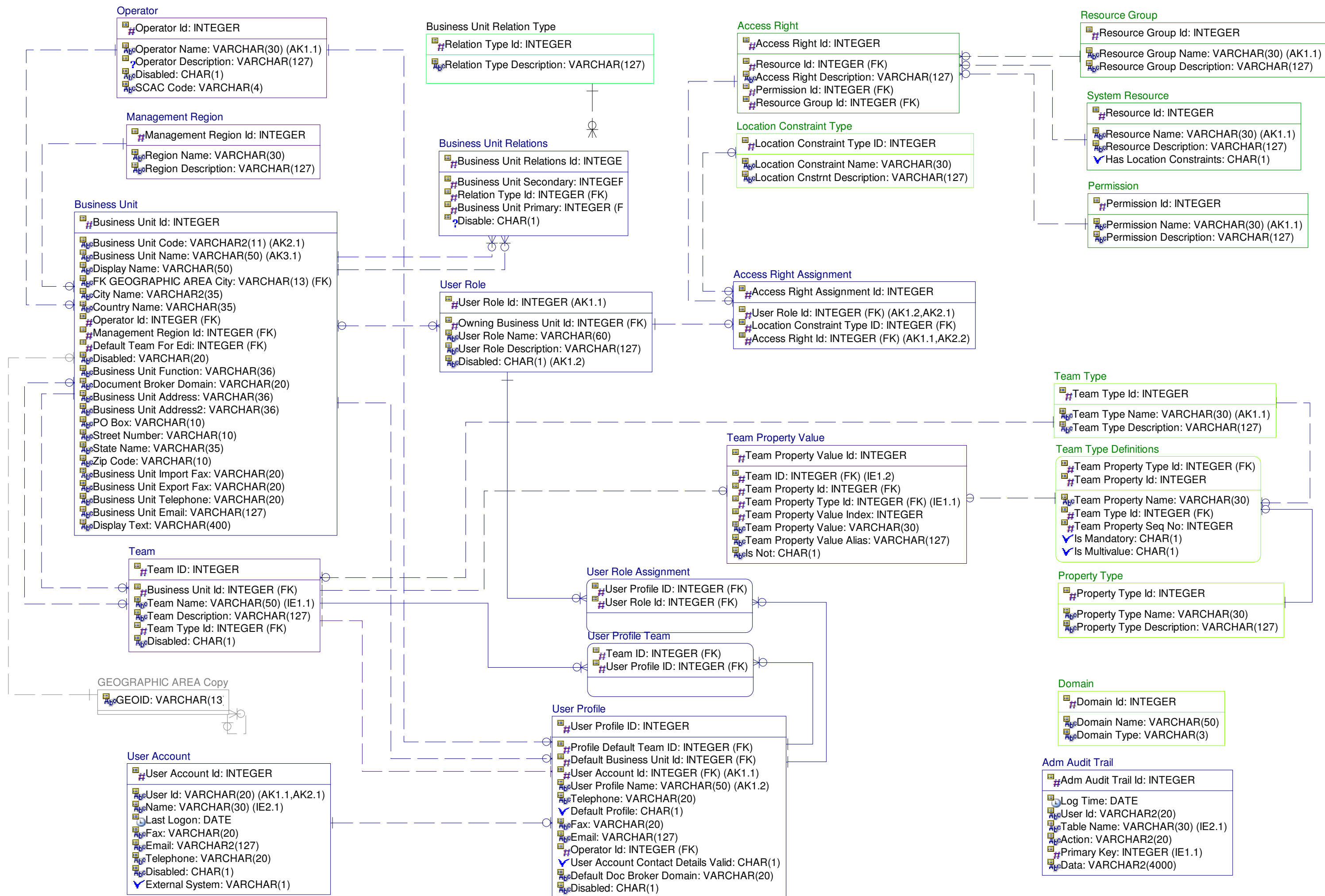
→instance id: CHAR(13)
→FK Shipment Version: CHAR(13) (FK)
→FK Cargo: CHAR(13) (FK)
→FK Equipment Assignment: CHAR(13) (FK)
→FK Package Description Type: CHAR(13) (FK)
→FK Cargo Package Outer Package: CHAR(13) (FK)
AppPresentation Sequence: NUMBER(4)
AppIs Finest Level: CHAR(1)
→FK Package Style: CHAR(13) (FK)
AppPackage Style Alt Text: VARCHAR(60)
AppPackage Count: NUMBER(12)
→FK Measure Unit Weight Gross: CHAR(13) (FK)
AppWeight Gross: NUMBER(12,3)
→FK Measure Unit Measure: CHAR(13) (FK)
AppMeasure Gross: NUMBER(15,4)
→FK Measure Unit Weight Net: CHAR(13) (FK)
AppWeight Net: NUMBER(12,3)
AppHDER Declaration Received BB: CHAR(1)

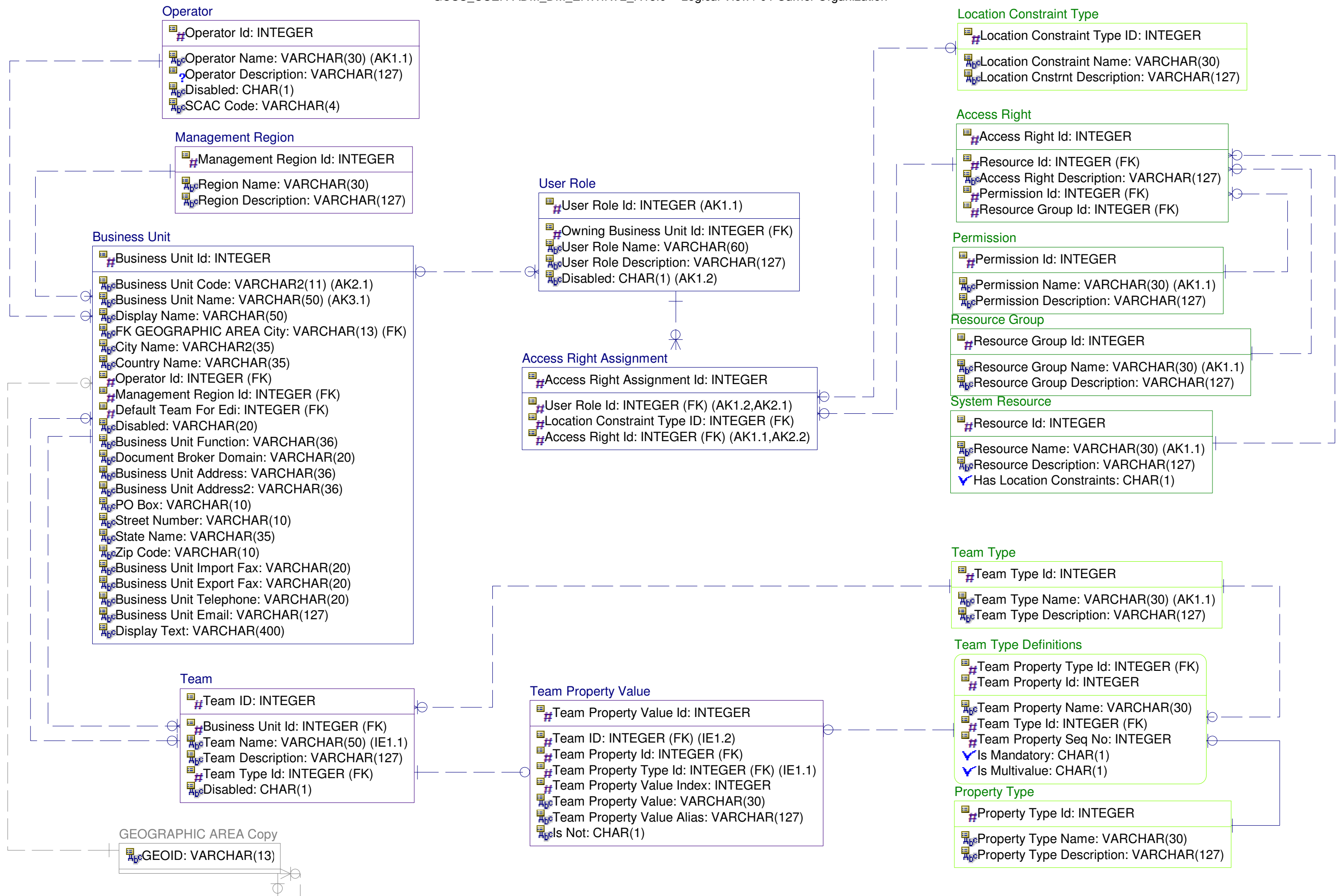
Fax Rejection Reasons

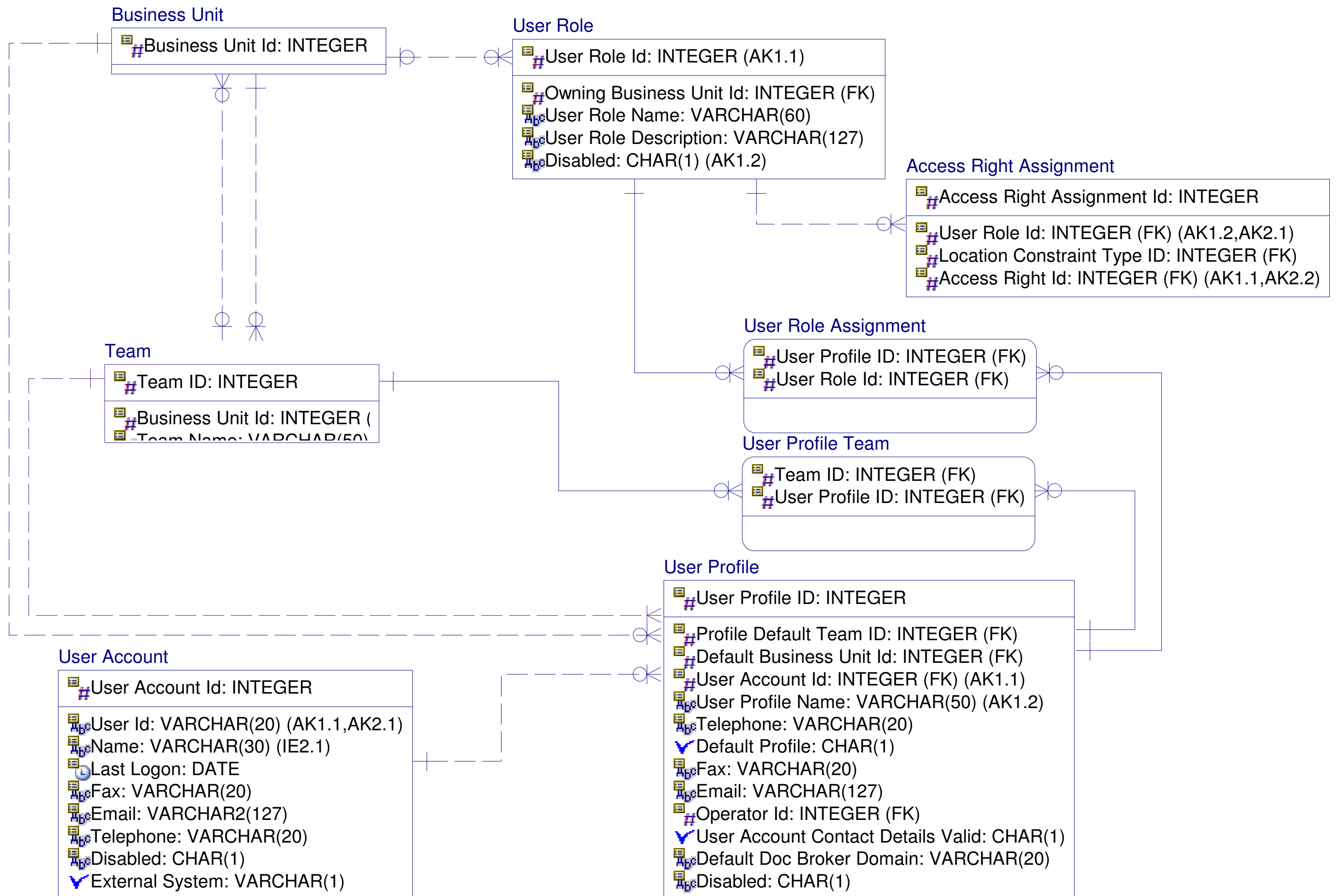
→Instance Id: CHAR(13)
→FK Rejected Image: CHAR(13) (FK)
→FK Reason for Rejection: CHAR(13) (FK)
AppTsCreate Time: TIMESTAMP

Reason For Rejection

→Instance Id: CHAR(13)
AppReason: VARCHAR(240)







Coloring Standard for Model Objects Not Part of GCSS Data

