



Facets Database Fundamentals

Learning Services

Lesson Objectives

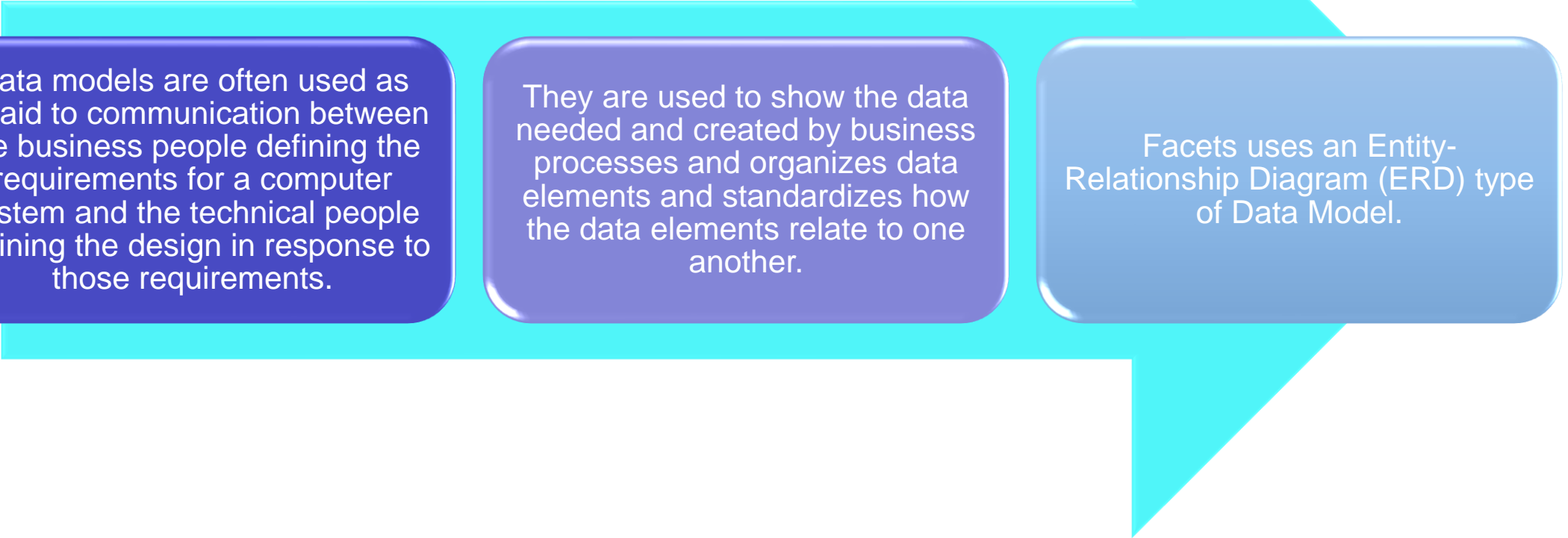
Upon completion of this session, you will be able to:

- Facets Data Model
- Data Types
- Database Terms and Common Columns
- Tables and Keys
- Facets Naming Convention
- Data Dictionary
- Group, Class, Plan, Product – Data Model
- Plan – Data Model
- Subscriber Member – Data Model
- Provider – Data Model
- Claims and Accounting – Data Model



Facets Data Model

Facets Data Model

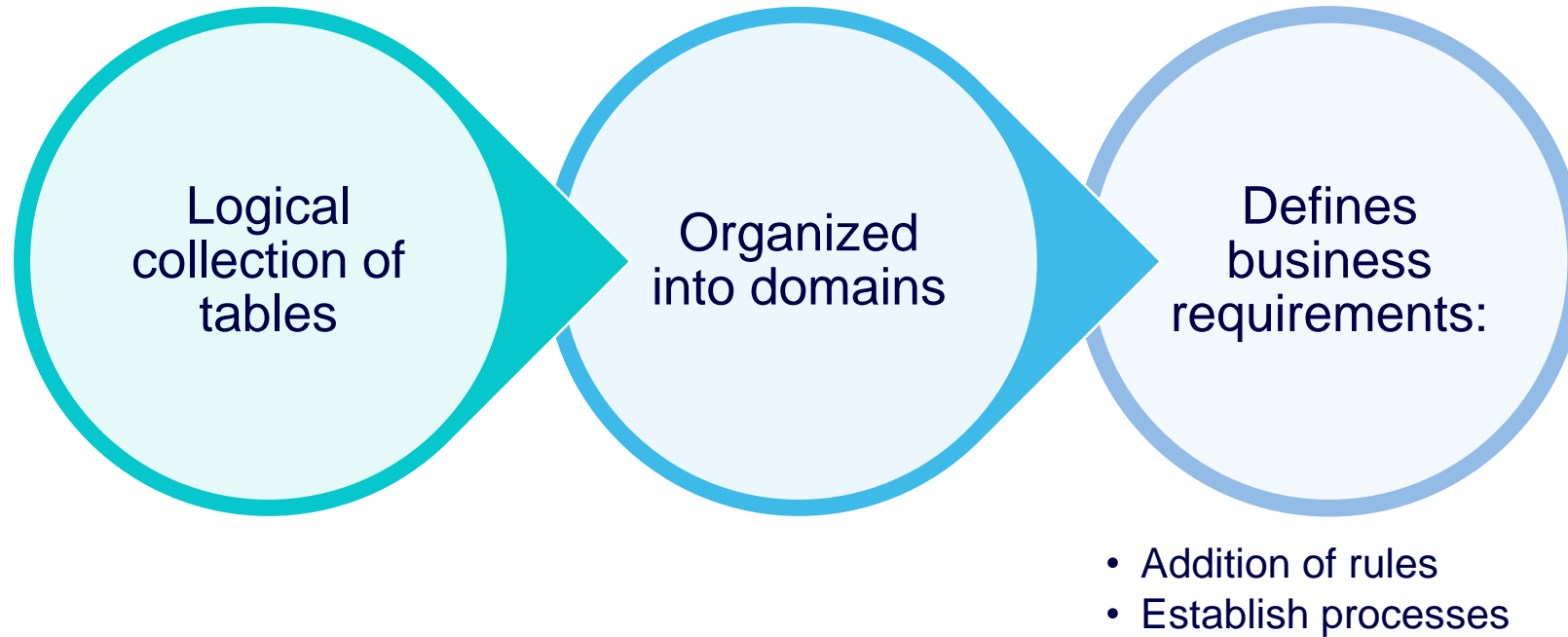


Data models are often used as an aid to communication between the business people defining the requirements for a computer system and the technical people defining the design in response to those requirements.

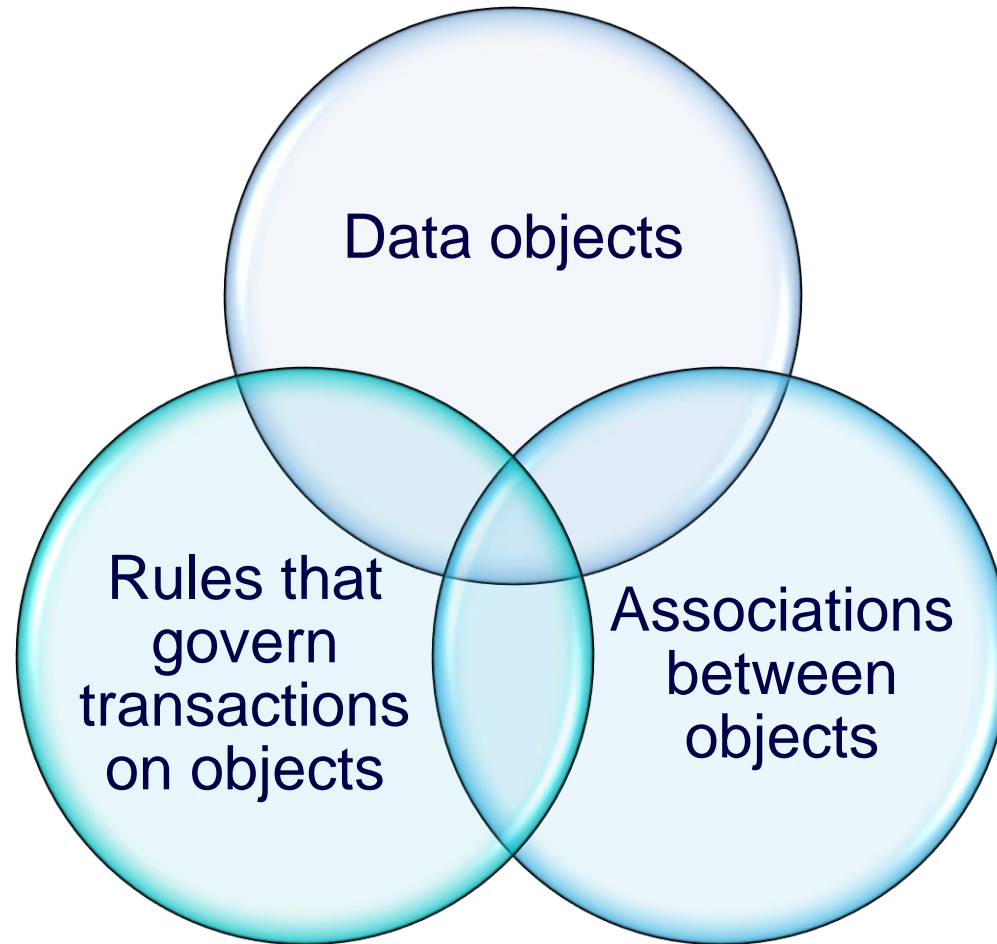
They are used to show the data needed and created by business processes and organizes data elements and standardizes how the data elements relate to one another.

Facets uses an Entity-Relationship Diagram (ERD) type of Data Model.

Facets Data Model



Facets Domains



Database Terms

Common relational database terms:

Entity	Main Object
Instance	Unique Occurrence
Attribute	Description
Attribute Type	Type of Data
Relationship	Association between entities

Data Types

- Determine the allowable form of the data that it can store
- Common values:
 - char
 - varchar
 - int
 - smallint
 - datetime

Default Values

Numeric



Character



Char field : Default Value all spaces / NULL

Default Values Contd..

Datetime (MM/DD/CCYY HH:MM:SS.000)

Examples of default Datetime

Effective Date : 01/01/1753 00:00:00.000
01/01/1920 00:00:00.000

Term Date : 12/31/9999 00:00:00.000
12/31/2199 00:00:00.000



Common Columns



Two most common columns:

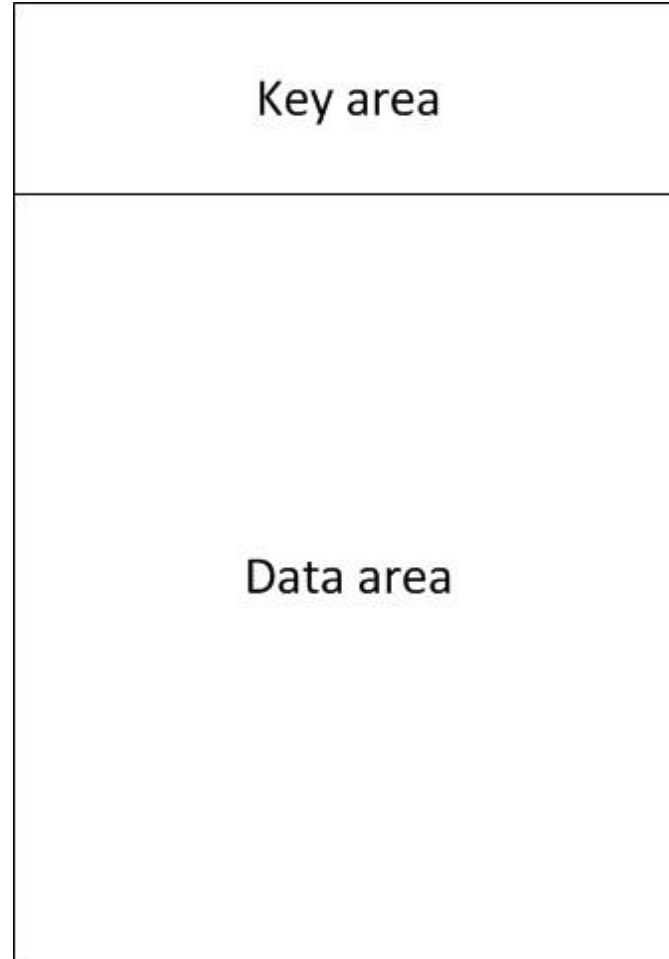
- XXXX_LOCK_TOKEN
- ATXR_SOURCE_ID
- 3053_03_01 00:00:00.356

Columns to track changes:

- SYS_USUS_ID
- SYS_DBUSER_ID
- SYS_LAST_UPT_DTM

Tables and Keys

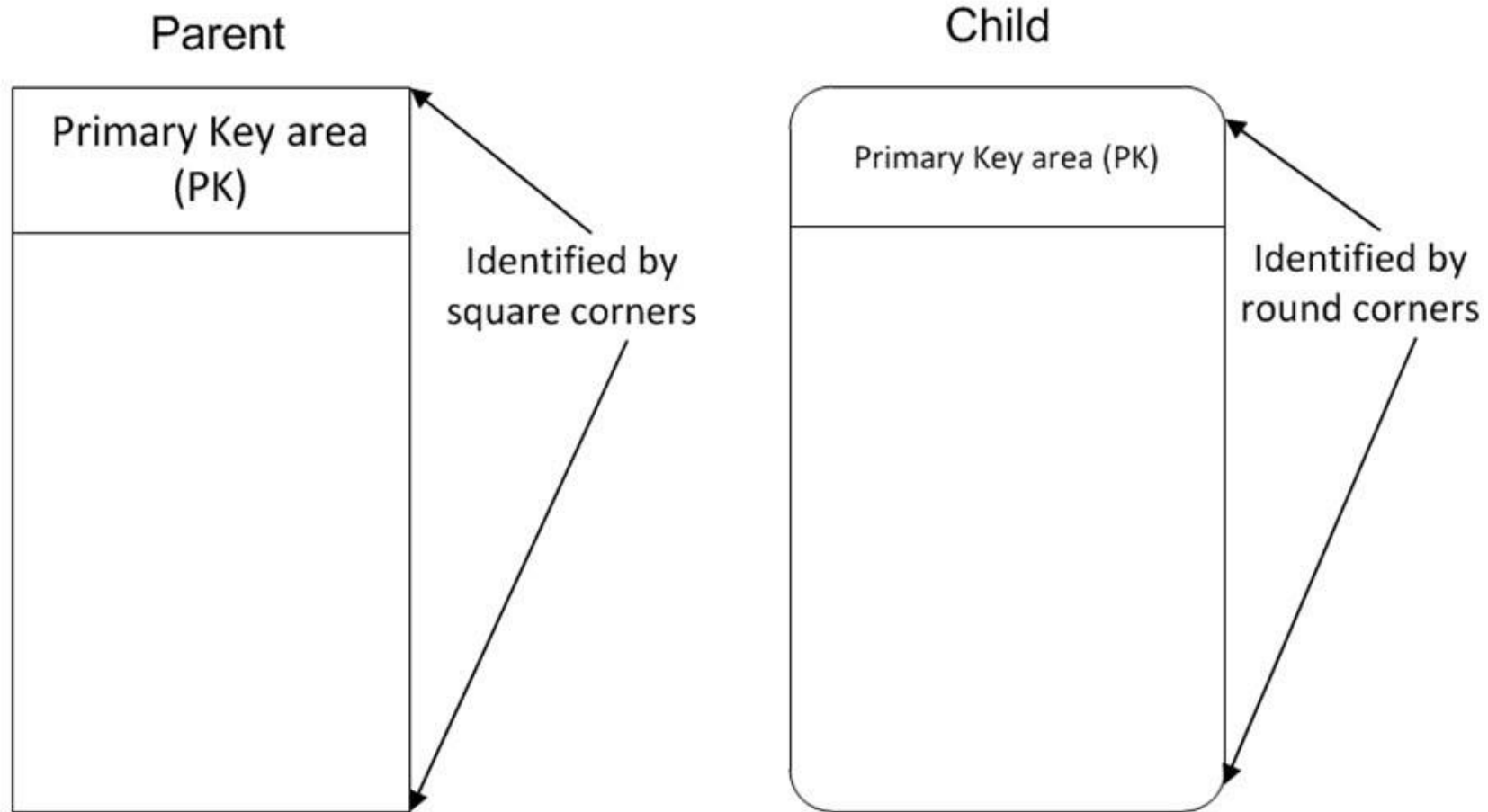
The Horizontal Line in the Table divides Keys and Non-Keys



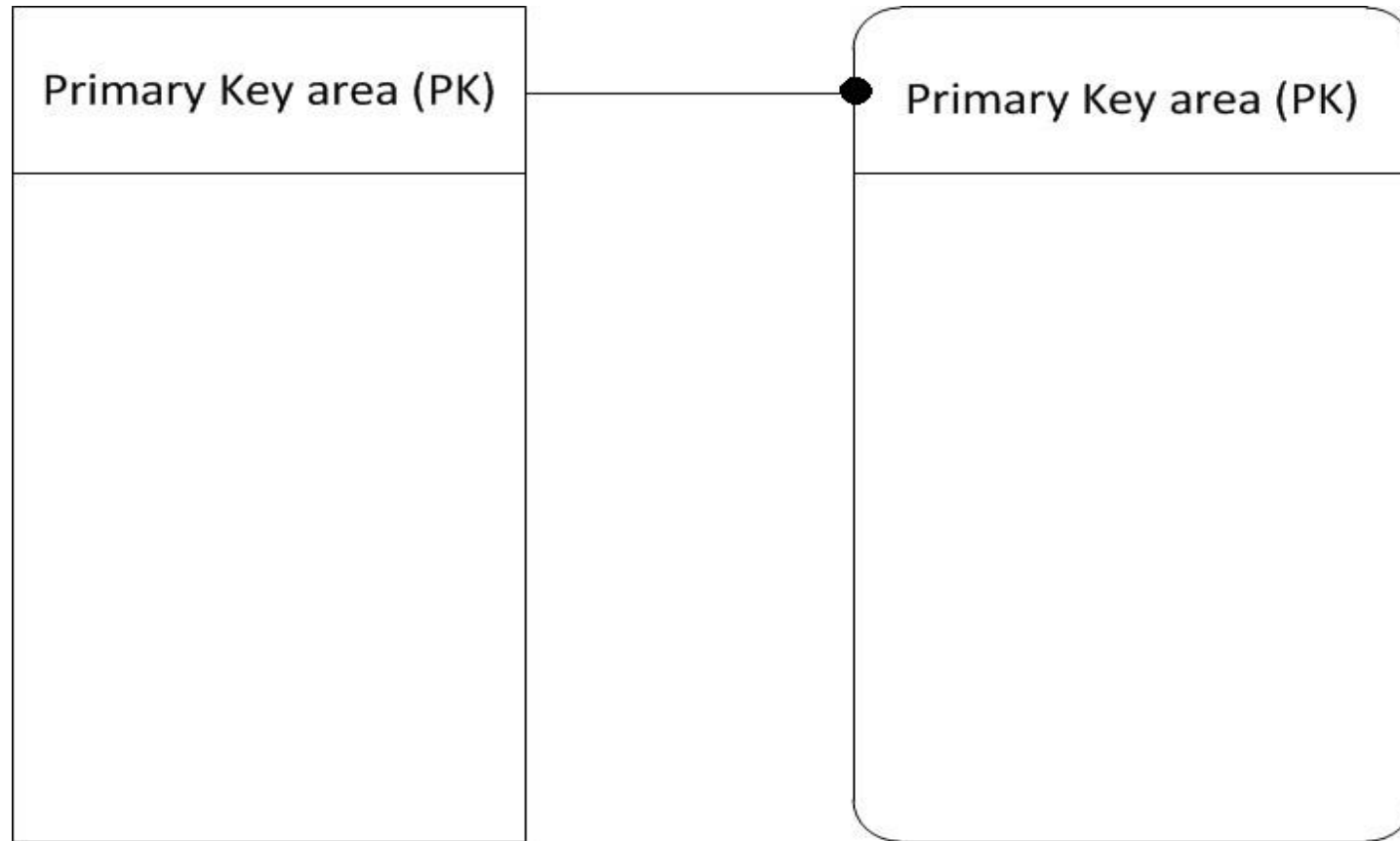
Primary and Foreign Keys



Table Types

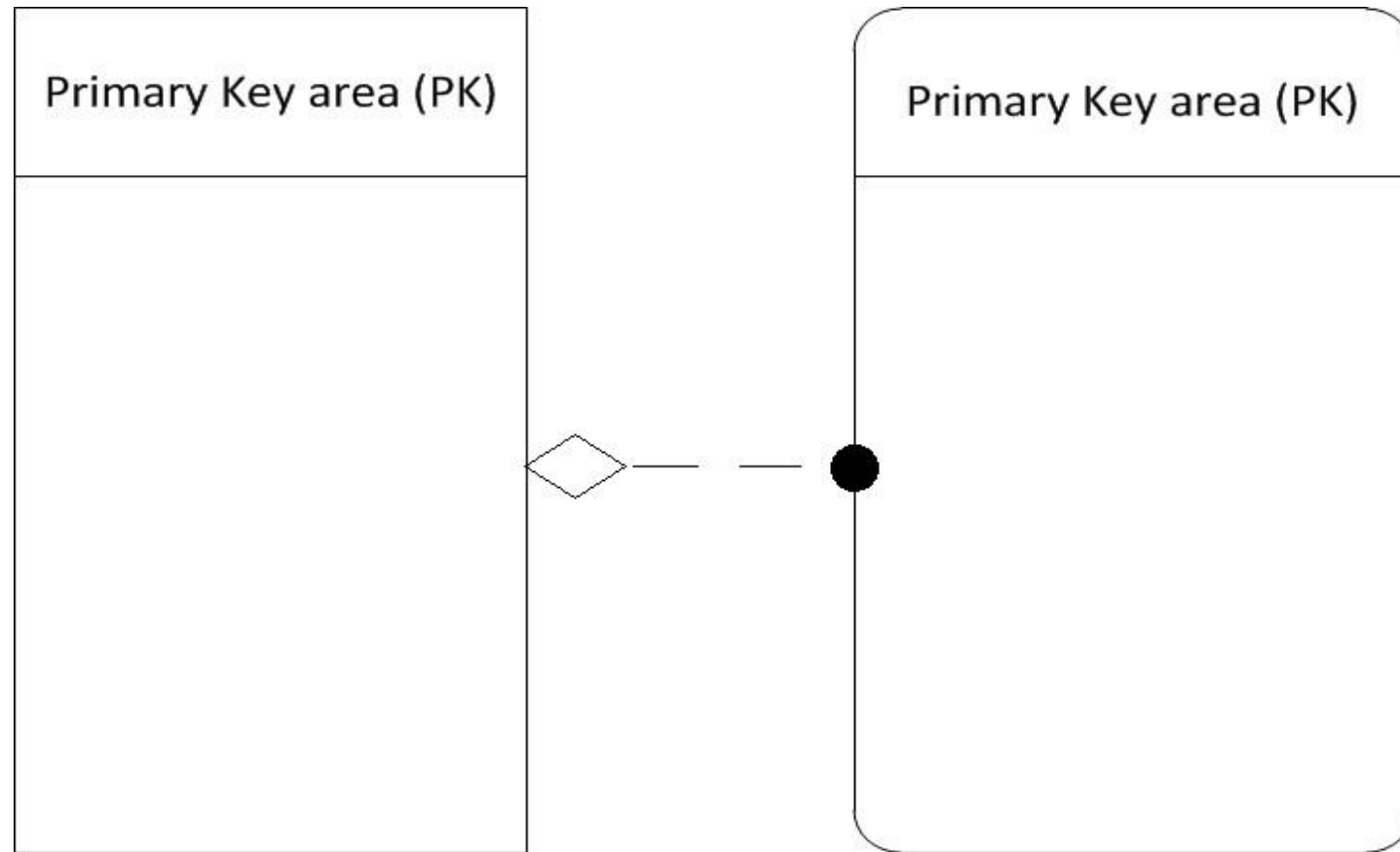


Identifying Relationship



Identifying Relationship (Required)

Non-identifying Relationship



Non-Identifying (Optional)

Facets Naming Convention

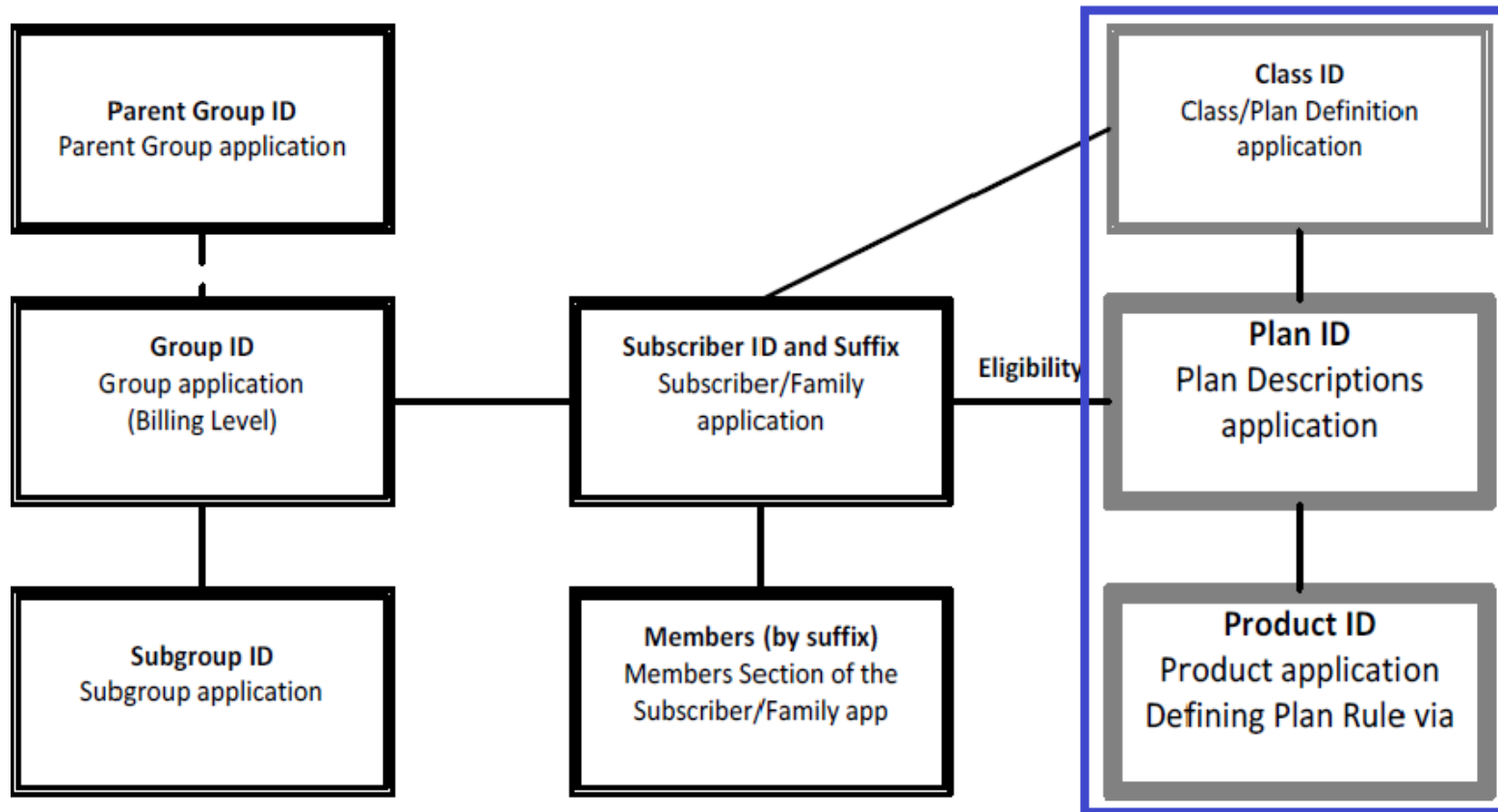
Database objects starting with a prefix:	<ul style="list-style-type: none">• Table• Triggers• Indexes• Stored Procedures• Views
The names are in upper case.	<ul style="list-style-type: none">• Many names begin with C, followed by ER, MC or DS.• These refer to the following:<ul style="list-style-type: none">• C - Client Service• ER - Facets System• MC - Managed Care• DS - Decision Support• CS - Custom Services
Second part of naming convention	<ul style="list-style-type: none">• Unique four-character name• Ex: MEME
Third part	<ul style="list-style-type: none">• Description• Ex: CMC_MEME_MEMBER is MEMBER
if necessary a fourth	<ul style="list-style-type: none">• Other Information• Ex: CDS_MMCT_MEM_COUNT is COUNT

Data Dictionary

- Central source of database information
- For reference, training, and reporting purposes
- Contains:
 - Metadata
 - Table and column definitions
 - Help text
 - Valid values
 - Attributes, key, and GUI information

Group, Class, Plan, Product – Data Model

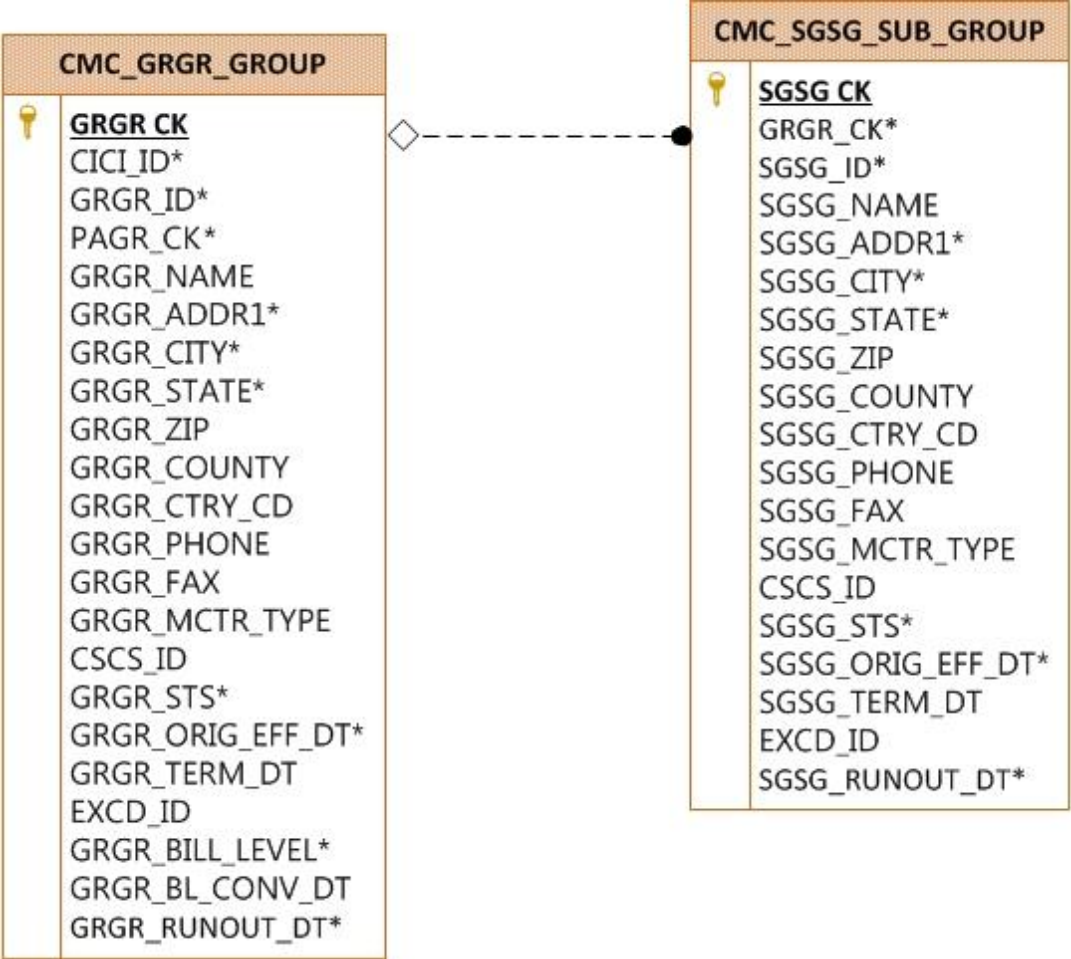
Group, Class, Plan, Product Structure








Group Table

CMC_GRGR_GROUP	
	GRGR CK
	CICI_ID*
	GRGR_ID*
	PAGR_CK*
	GRGR_NAME
	GRGR_ADDR1*
	GRGR_CITY*
	GRGR_STATE*
	GRGR_ZIP
	GRGR_COUNTY
	GRGR_CTRY_CD
	GRGR_PHONE
	GRGR_FAX
	GRGR_MCTR_TYPE
	CSCS_ID
	GRGR_STS*
	GRGR_ORIG_EFF_DT*
	GRGR_TERM_DT
	EXCD_ID
	GRGR_BILL_LEVEL*
	GRGR_BL_CONV_DT
	GRGR_RUNOUT_DT*

Subgroup Table

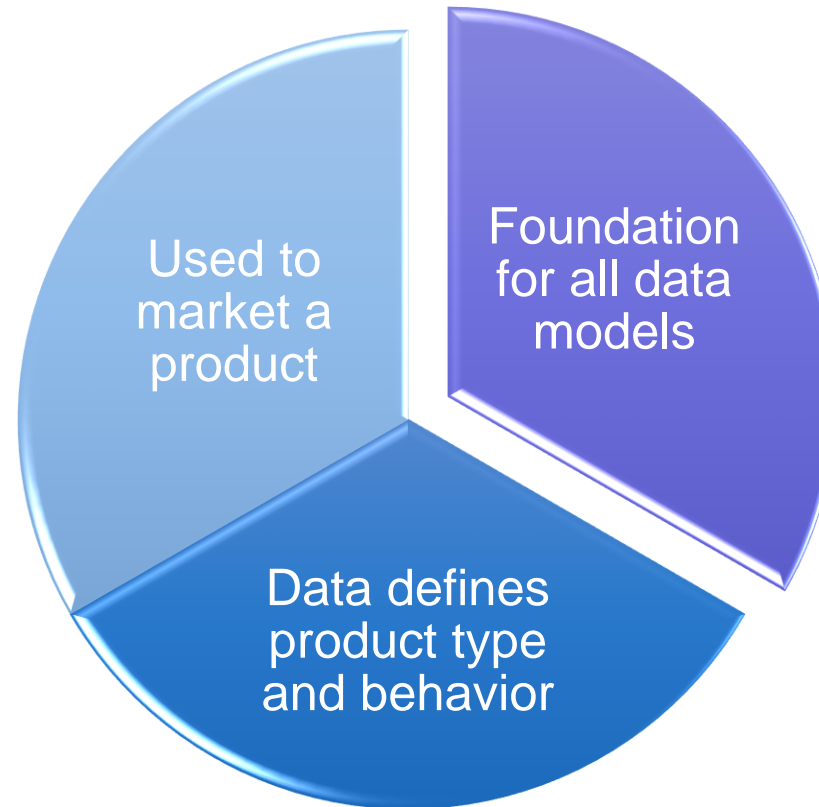


Class Plan Table

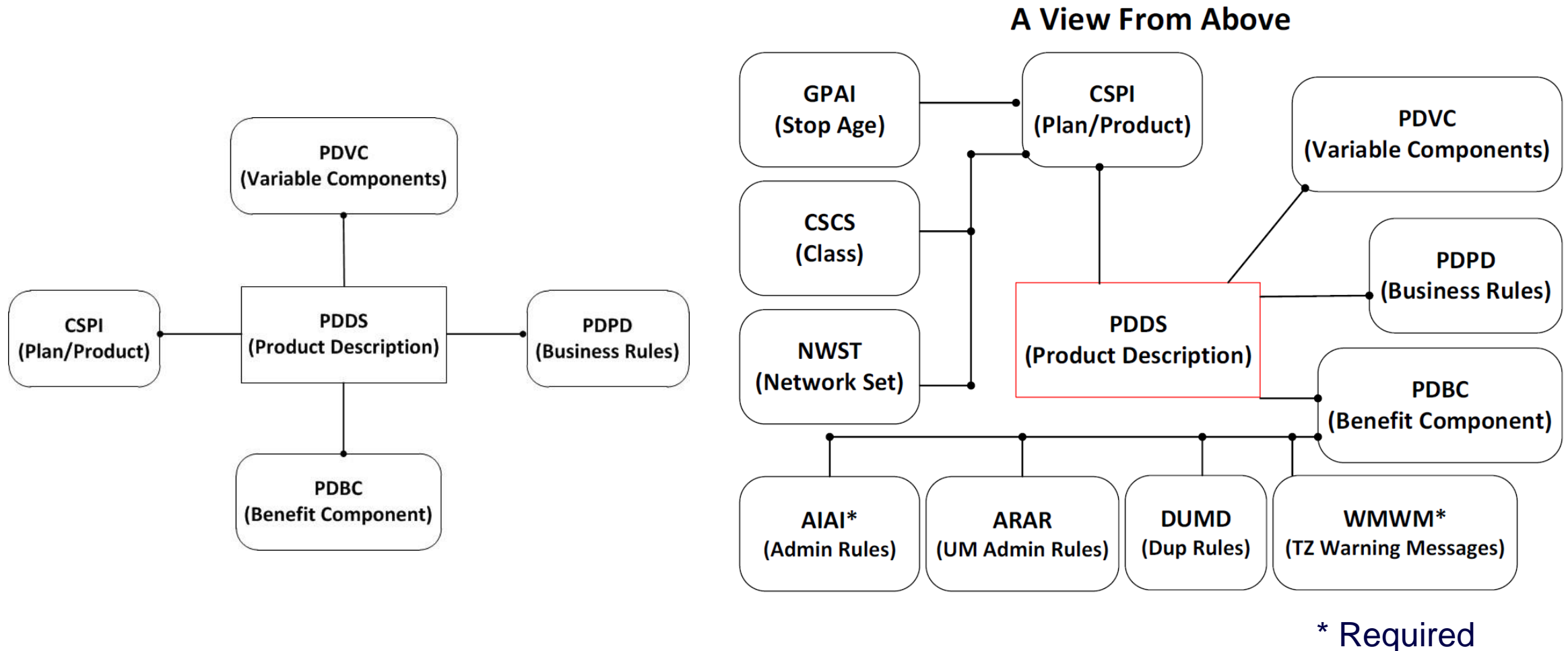
CMC_CSPI_CS_PLAN	
	<u>GRGR CK</u>
	<u>CSCS ID</u>
	<u>CSPD CAT</u>
	<u>CSPI ID</u>
	<u>CSPI EFF DT</u>
	CSPI_TERM_DT
	PDPD_ID
	CSPI_SEL_IND
	CSPI_FI
	NWST_PFX
	WMDS_SEQ_NO
	CSPI_OPEN_BEG_MMDD
	CSPI_OPEN_END_MMDD
	GPAI_ID
	CSPI_AGE_CALC_METH
	CSPI_MCTR_CTYP
	CVST_PFX
	HSAI_ID
	GRDC_PFX
	UTED_PFX

Plan – Data Model


Plan Structure



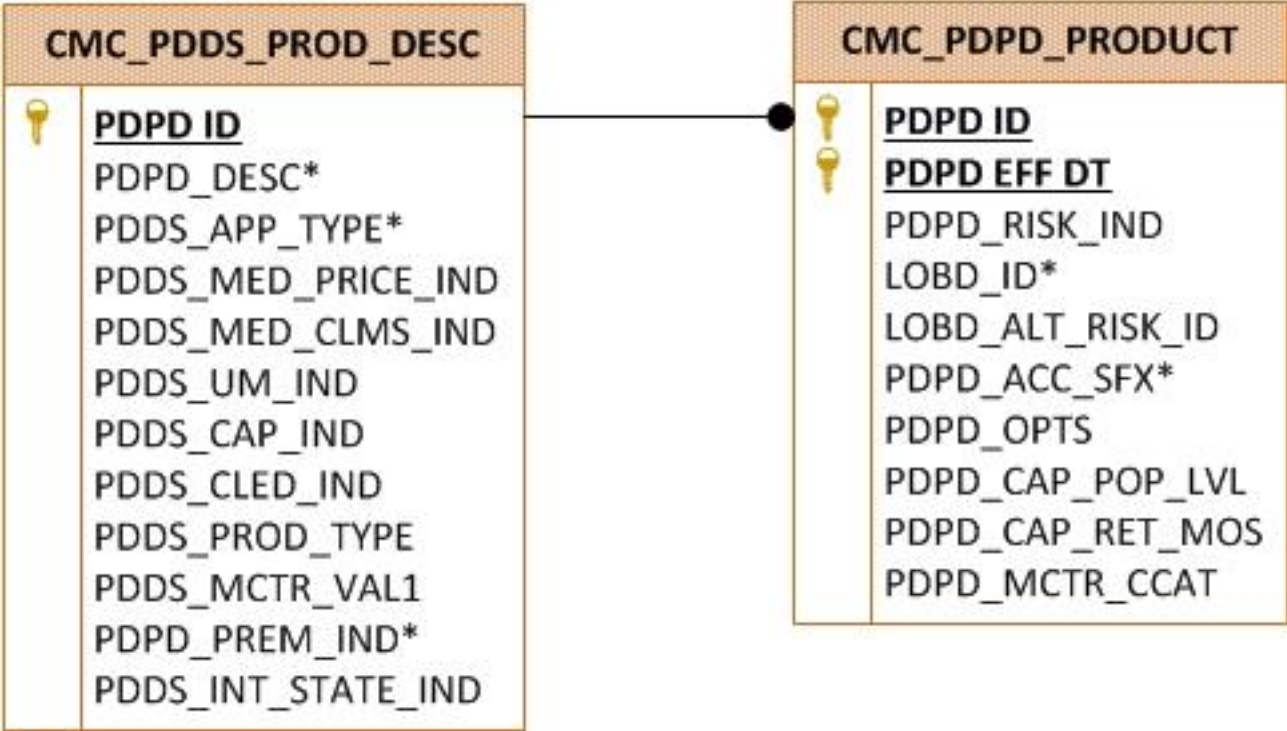
Plan Structure



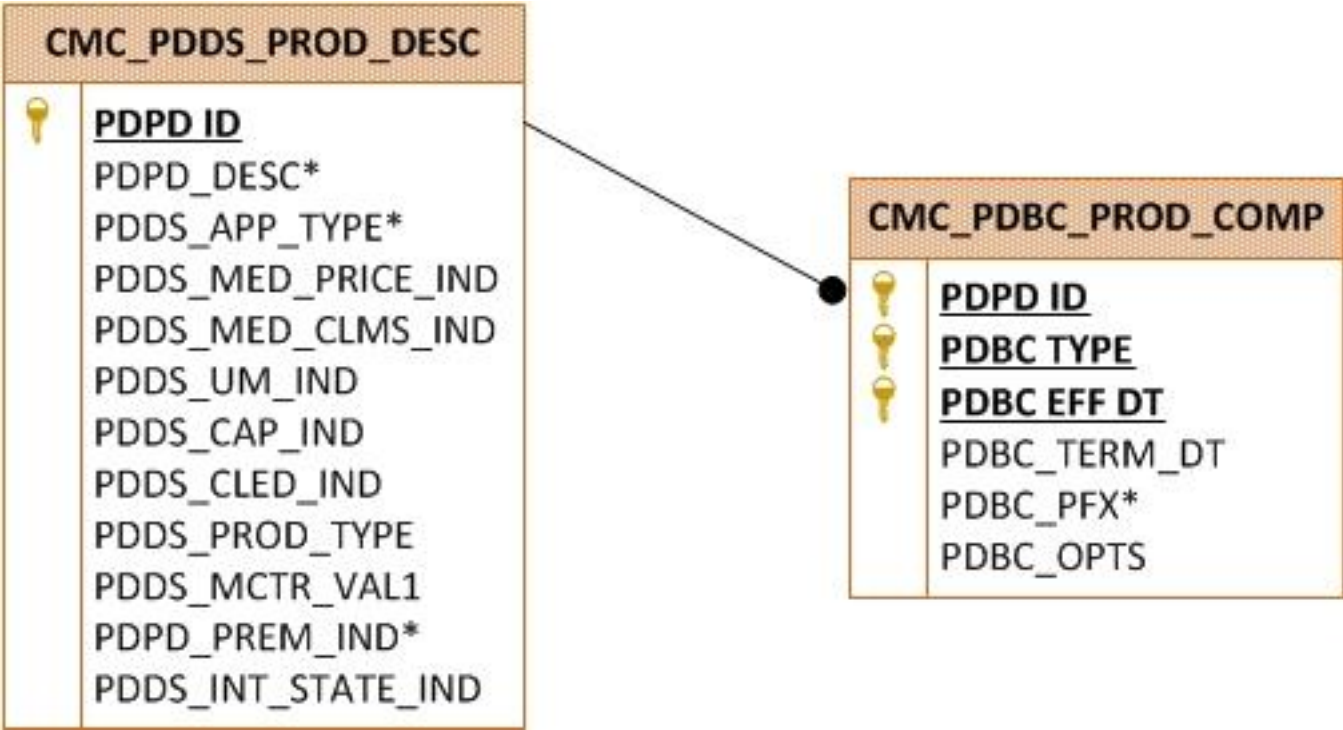
Product Description Table

CMC_PDDS_PROD_DESC	
	<u>PDPD ID</u>
	PDPD_DESC*
	PDDS_APP_TYPE*
	PDDS_MED_PRICE_IND
	PDDS_MED_CLMS_IND
	PDDS_UM_IND
	PDDS_CAP_IND
	PDDS_CLED_IND
	PDDS_PROD_TYPE
	PDDS_MCTR_VAL1
	PDPD_PREM_IND*
	PDDS_INT_STATE_IND

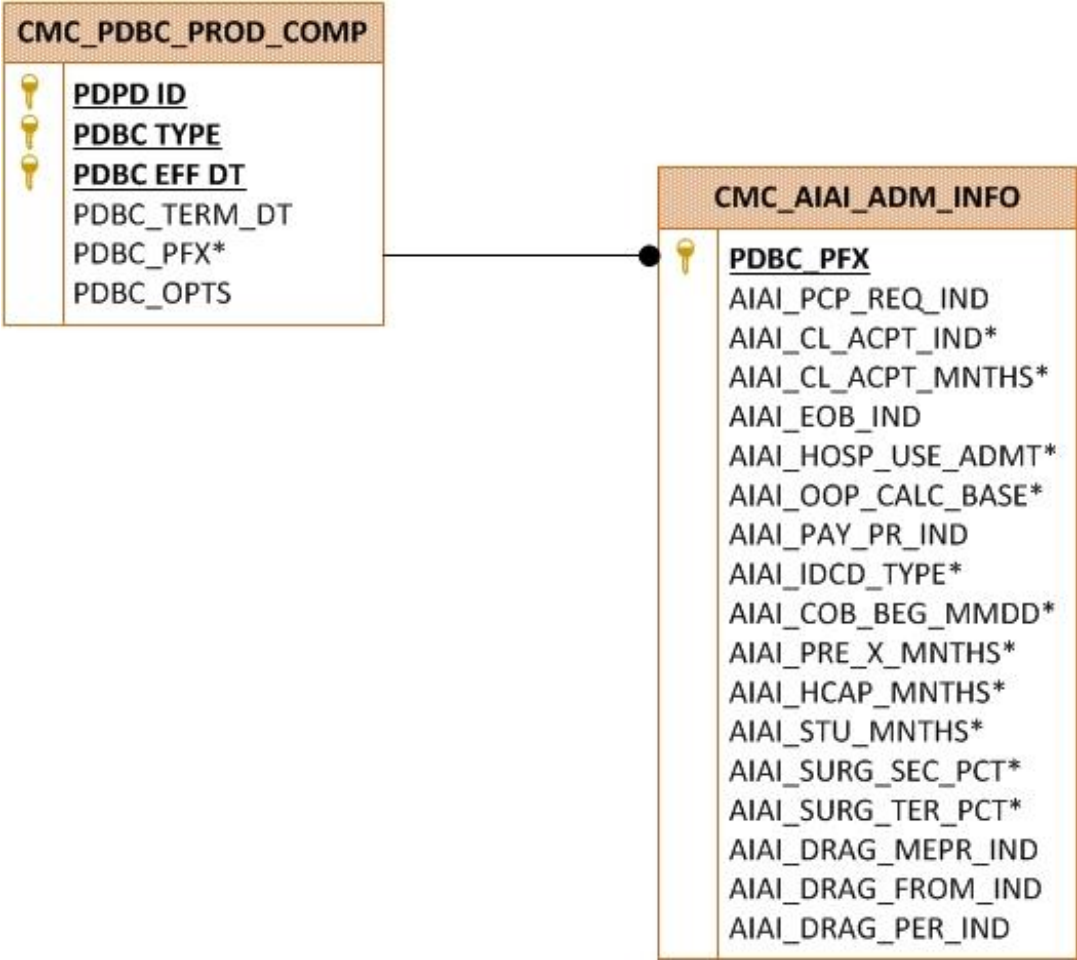
Product Table



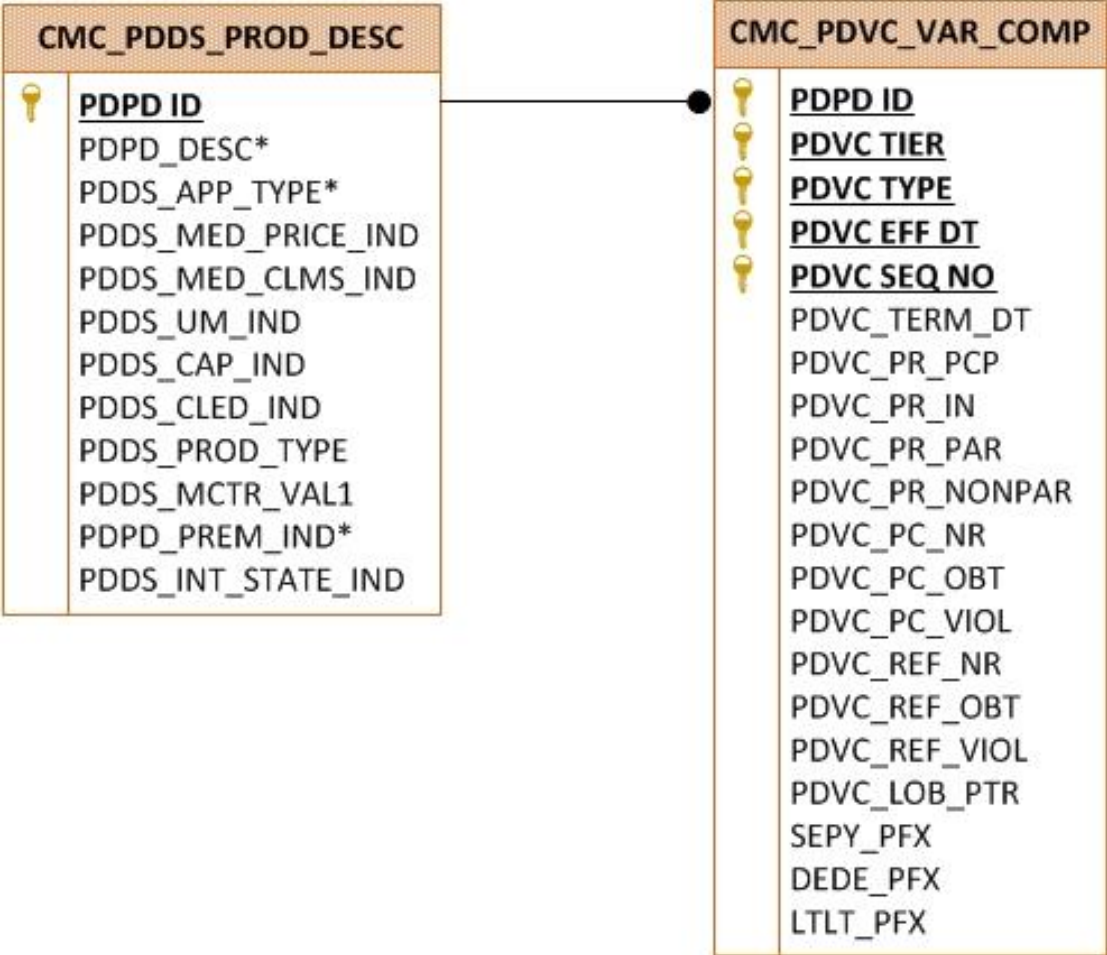
Benefit Components Table



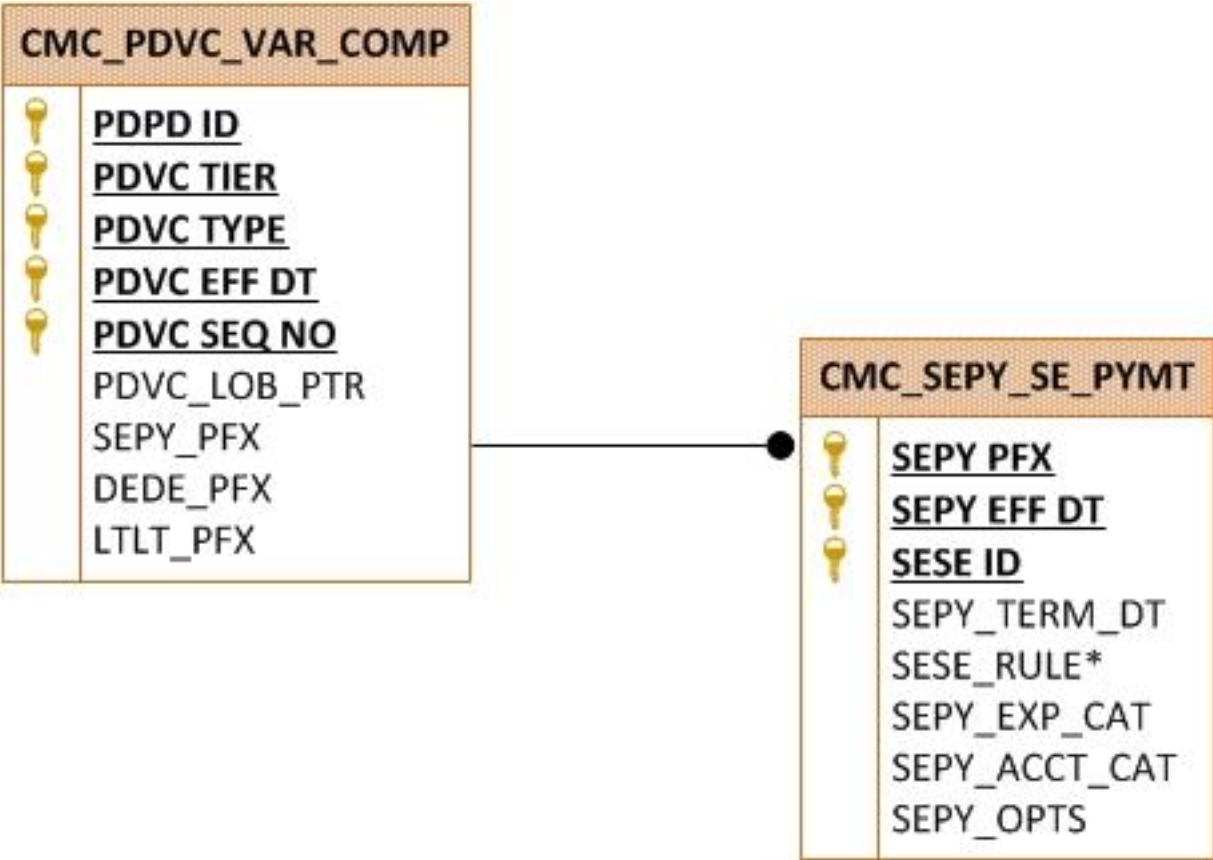
Administrative Information Table



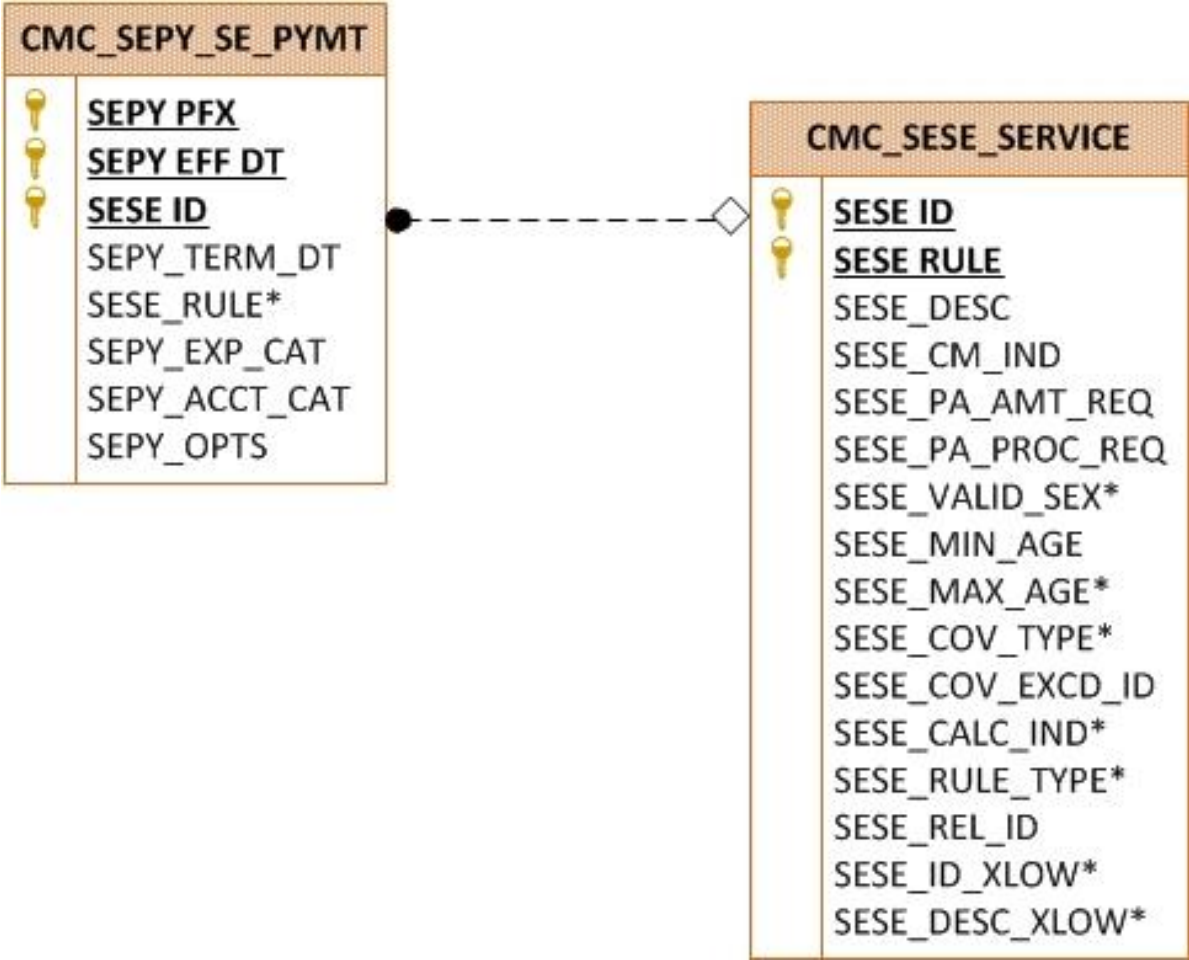
Variable Components Tables



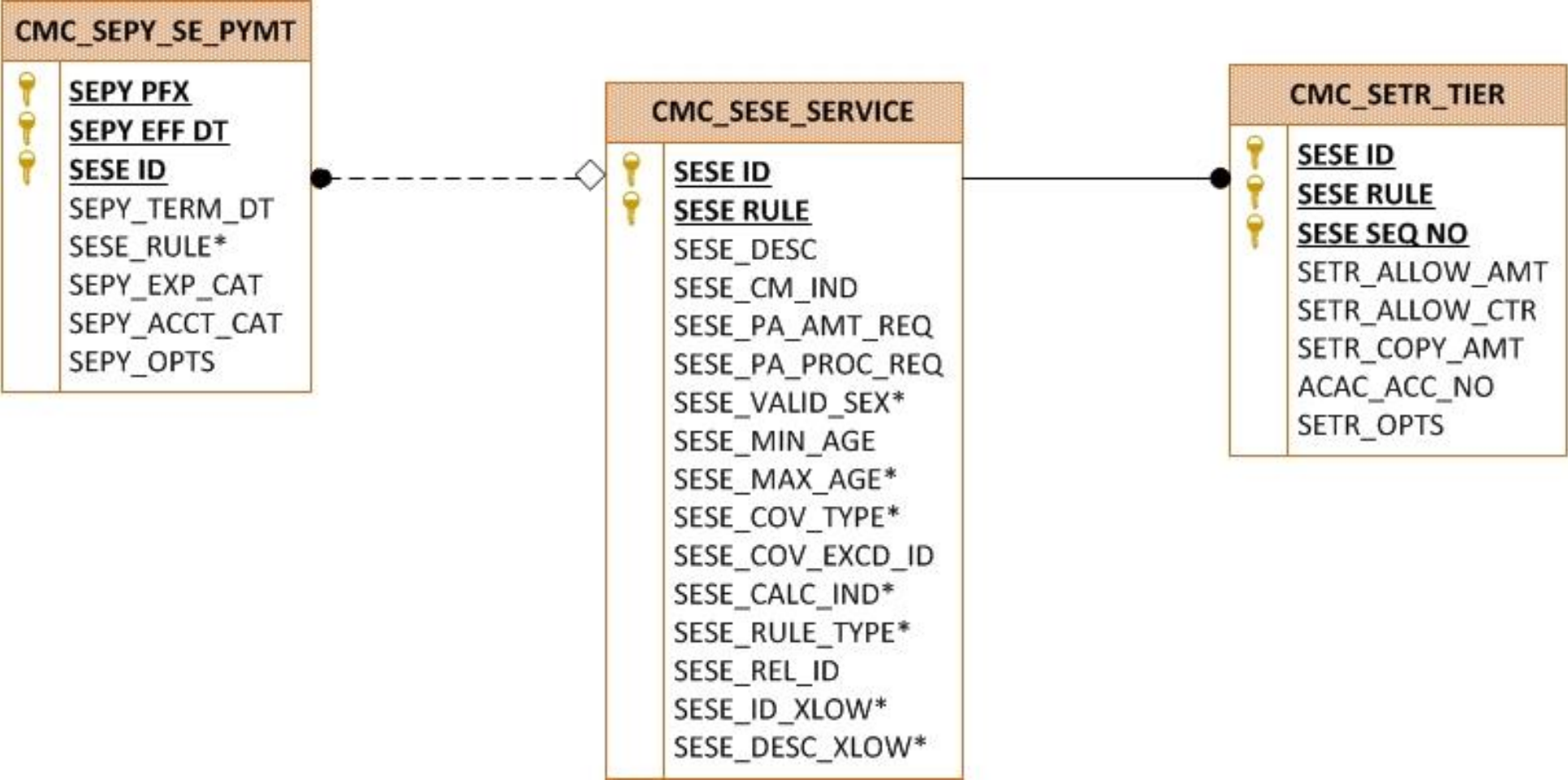
Service Payment Table



Service Rule Definition Table

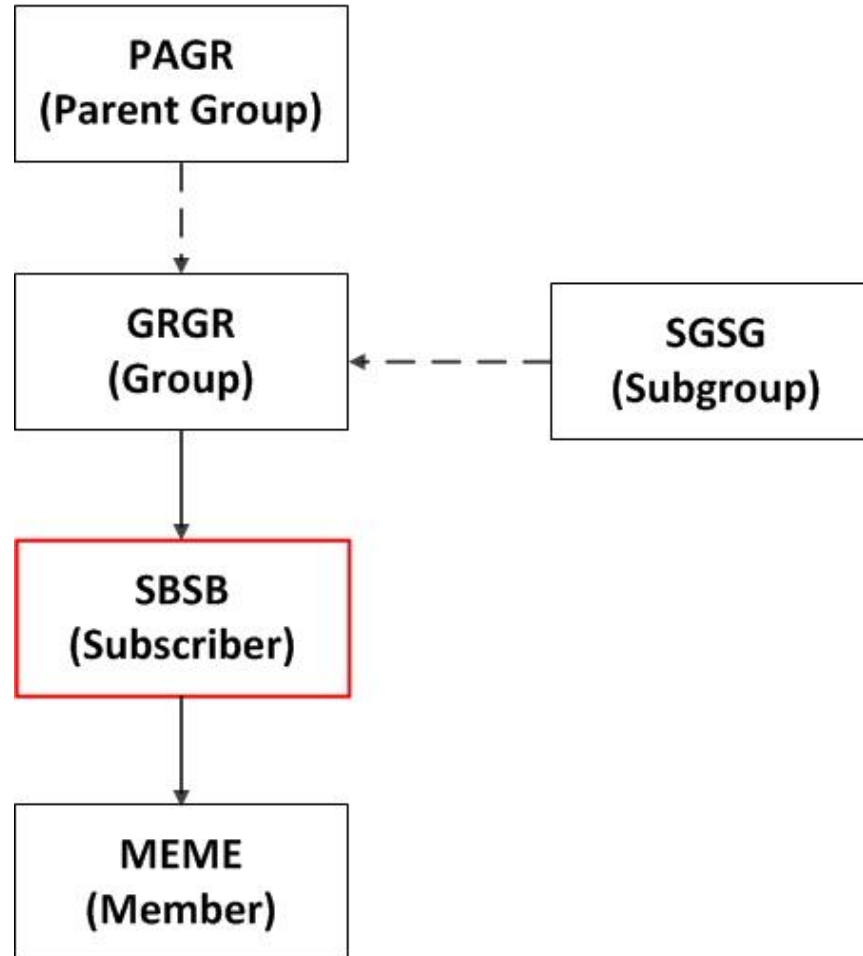


Service Tier Table

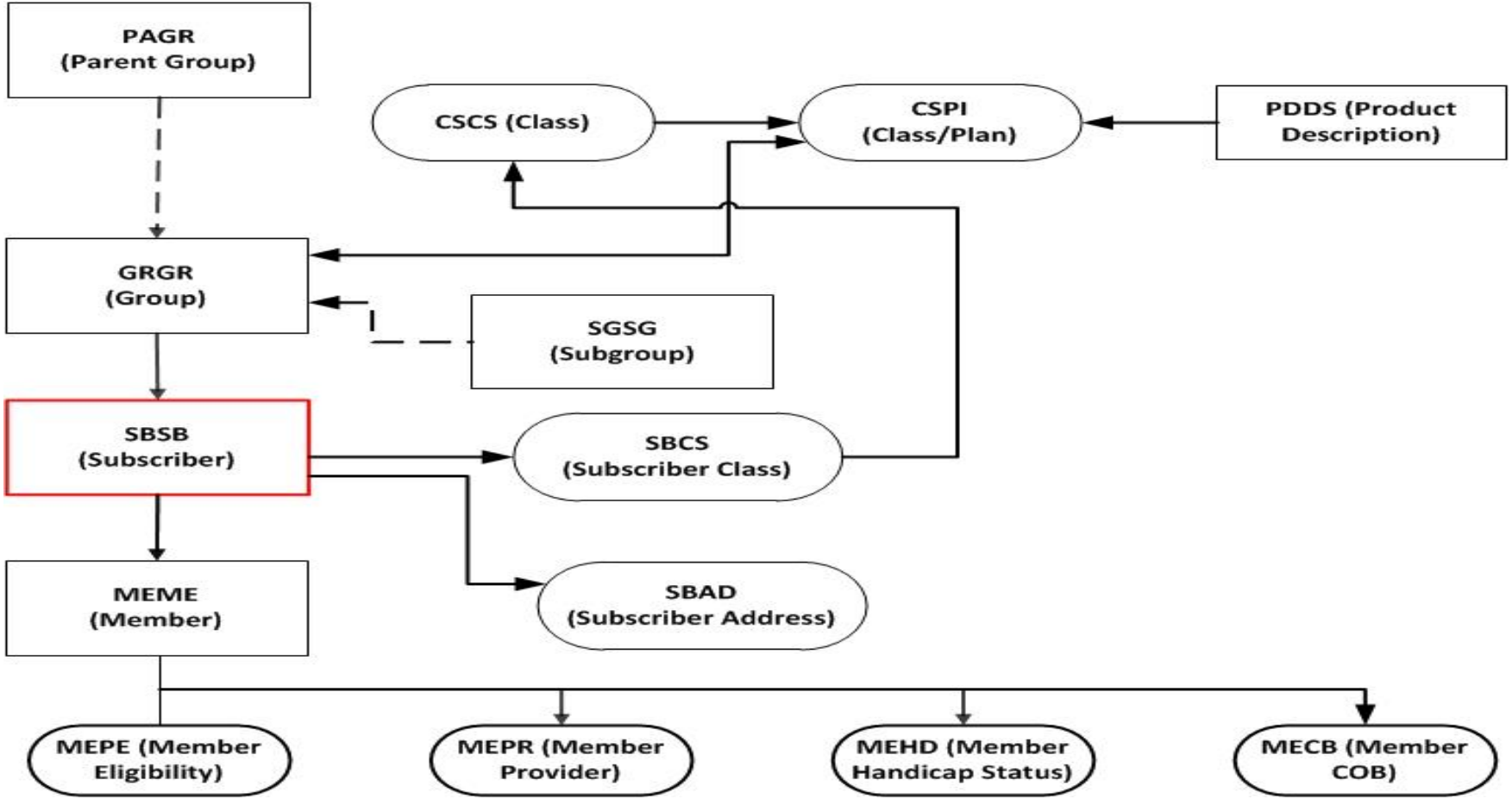


Subscriber Member – Data Model


Subscriber Member Structure



Subscriber Member Structure Contd..




Subscriber Indicative Table

CMC_SBSB_SUBSC	
	SBSB CK GRGR_CK* SBSB_ID* SBSB_LAST_NAME* SBSB_FIRST_NAME* SBSB_MID_INIT SBSB_ORIG_EFF_DT* SBSB_MCTR_STS SBSB_MCTR_VIP SBSB_EMPLOY_ID SBSB_HIRE_DT SBSB_RETIRE_DT SBSB_FI* SBSB_PAY_CL_METH* SBSB_TYPE_HOME* SBSB_TYPE_MAIL SBSB_TYPE_WPRL SBSB_LAST_NAME_XLOW*

Subscriber Warning Messages Table

CMC_SBWM_SB_MSG	
	<u>SBSB CK</u>
	<u>SBWM EFF DT</u>
	<u>WMDS SEQ NO</u>
	SBWM_TERM_DT
	SBWM_MCTR_TRSN
	GRGR_CK

Subscriber Relationship Table

CMC_SBSG_RELATION	
	<u>SBSB CK</u>
	<u>SBSG EFF DT</u>
	GRGR_CK
	SGSG_CK
	SBSG_TERM_DT
	SBSG_MCTR_TRSN




Subgroup Class Section

CMC_SGCS_RELATION	
	<u>SGSG CK</u>
	<u>CSCS ID</u>
	<u>SGCS EFF DT</u>
	GRGR CK
	SGCS_TERM_DT




Subscriber Class Information Table

CMC_SBCS_CLASS	
	<u>SBSB CK</u>
	<u>SBSG EFF DT</u>
	SBCS_TERM_DT
	GRGR_CK
	CSCS_ID




Subscriber Eligibility Table

CMC_SBEL_ELIG_ENT	
	<u>SBSB CK</u>
	<u>SBEL EFF DT</u>
	<u>SBEL INSQ DT</u>
	GRGR_CK
	SBEL_ELIG_TYPE
	CSPD_CAT
	CSPI_ID
	SBEL_FI
	EXCD_ID
	SBEL_MCTR_RSN
	SBEL_VOID_IND
	SBEL_MCTR_ORSN




Member Eligibility Table

CMC_MEEL_ELIG_ENT	
	<u>MEME CK</u>
	<u>MEEL EFF DT</u>
	<u>MEEL INSQ DT</u>
	GRGR_CHK
	MEEL_ELIG_TYPE
	CSPD_CAT
	CSPI_ID
	EXCD_ID
	MEEL_MCTR_RSN
	MEEL_VOID_IND
	MEEL_MCTR_ORSN






Member Eligibility Status Table

CMC_MEPE_PRCES_ELIG	
	<u>MEME CK</u>
	<u>CSPD CAT</u>
	<u>MEPE EFF DT</u>
	MEPE_TERM_DT
	MEPE_CREATE_DTM
	CSCS_ID
	GRGR_CHK
	SGSG_CHK
	CSPI_ID
	PDPD_ID
	MEPE_ELIG_IND
	EXCD_ID
	MEPE_MCTR_RSN
	MEPE_FI


Member PCP Table

CMC_MEPR_PRIM_PROV	
	<u>MEME CK</u>
	<u>MEPR PCP TYPE</u>
	<u>MEPR EFF DT</u>
	MEPR_TERM_DT
	MEPR_MCTR_TRSN
	MEPR_MCTR_ORSN
	MEPR_MCTR_ERSN
	GRGR_CK
	PRPR_ID
	MEPR_SOURCE
	MEPR_DEMGRPHC_IND
	MEPR_CAP_REL_ENT



Member COB Table

CMC_MECB_COB	
	<u>MEME CK</u>
	<u>MECB INSUR TYPE</u>
	<u>MECB INSUR ORDER</u>
	<u>MECB MCTR STYP</u>
	<u>MECB EFF DT</u>
	MECB_TERM_DT
	MECB_MCTR_TRSN
	GRGR_CHK
	MCRE_ID
	MECB_POLICY_ID
	MECB_MCTR_MSP
	MECB_RXBIN
	MECB_LAST_VER_DT
	MECB_MCTR_VMTH

Related Entity Table

CMC_MCRE_RELAT_ENT	
	<u>MCRE ID</u>
	MCRE_NAME
	MCRE_TYPE
	MCRE_ADDR1
	MCRE_CITY
	MCRE_STATE
	MCRE_COUNTY
	MCRE_CTRY_CD
	MCRE_PHONE
	MCRE_FAX
	MCRE_MCTR_CODE

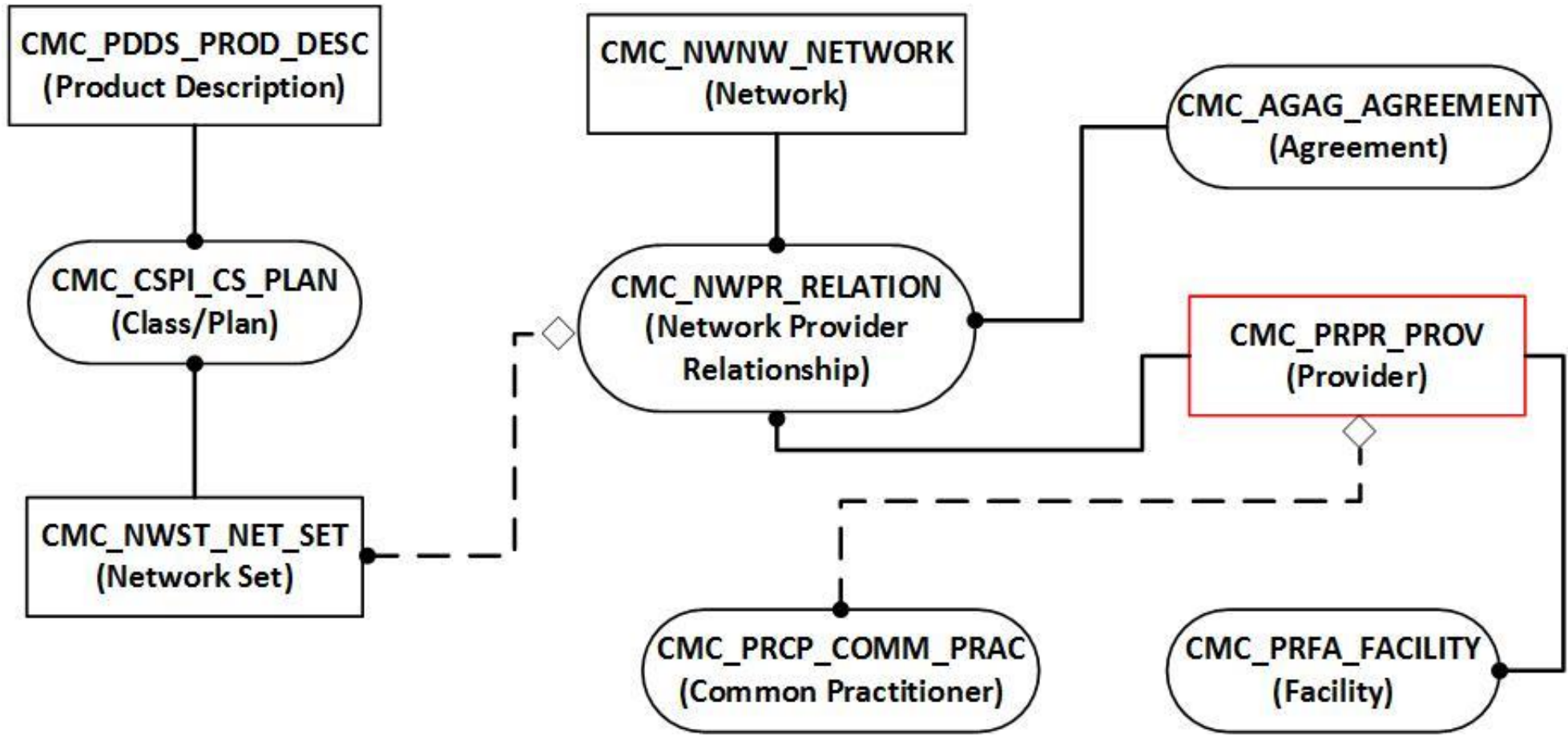
Member Student Table

CMC_MEST_STUDENT	
	<u>MEME CK</u>
	<u>MEST EFF DT</u>
	MEST_TERM_DT
	MEST_MCTR_TRSN
	GRGR_CK
	MEST_SCHOOL_NAME
	MEST_TYPE
	MEST_LAST_VER_DT
	MEST_LAST_VER_NAME
	MEST_MCTR_VMTH

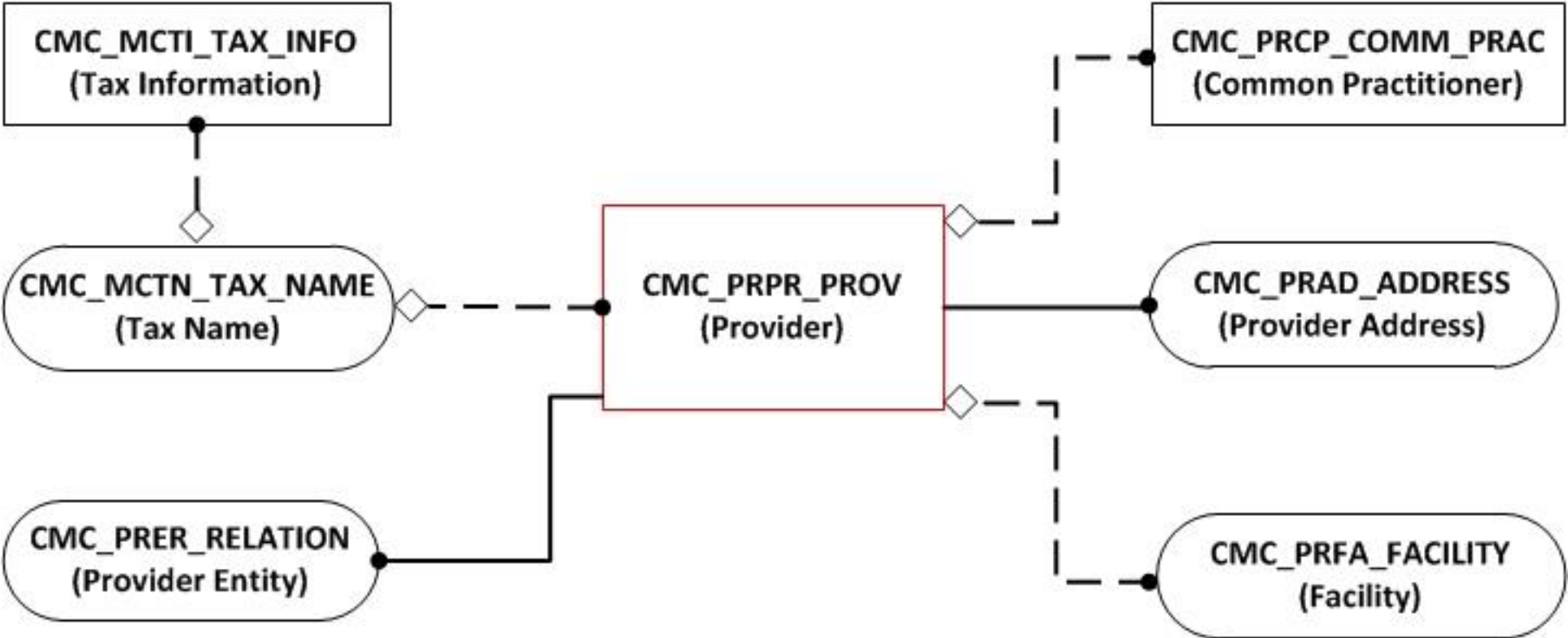
Provider

– Data Model


Provider Data Model Structure




Provider Structure






Common Practitioner Table

CMC_PRCP_COMM_PRAC	
	<u>PRCP ID</u>
	PRCP_SSN
	PRCP_LAST_NAME*
	PRCP_FIRST_NAME
	PRCP_MID_INIT
	PRCP_TITLE
	PRCP_SEX
	PRCP_BIRTH_DT
	PRCP_LAST_CHAN_DTM
	PRCP_TIER_NO
	PRCP_LAST_NAME_XLOW
	PRCP_MCCY_CTRY
	PRCR_ID*
	PRCP_MCTR_LANG
	PRCP_EXTN_ADDR_IND
	PRCP_NPI
	PRCP_TERM_DT



Provider Table

CMC_PRPR_PROV	
	<div><div><u>PRPR ID</u></div><div>PRPR_ENTITY*</div><div>PRCR_ID*</div><div>TPCT_MCTR_TCAT</div><div>PRPR_PAY_CL_METH*</div><div>PRPR_MCTR_TYPE</div><div>PRPR_MCTR_PRTY</div><div>PRCF_MCTR_SPEC</div><div>PRPR_NAME*</div><div>PRPR_NPI</div><div>PRCP_ID*</div><div>PRAD_ID*</div><div>PRAD_TYPE_CHECK*</div><div>PRAD_TYPE_PRIM*</div><div>MCTN_ID</div><div>PRPR_STS</div><div>PRPR_PREAUTH_IND</div><div>PRPR_PAY_HOLD_DT</div><div>PRPR_NAME_XLOW*</div><div>PRPR_MCTR_VAL1</div></div>

Provider Address Table

CMC_PRAD_ADDRESS	
	<u>PRAD ID</u>
	<u>PRAD TYPE</u>
	<u>PRAD EFF DT</u>
	PRAD_TERM_DT
	PRAD_ADDR1*
	PRAD_CITY*
	PRAD_STATE*
	PRAD_ZIP*
	PRAD_COUNTY
	PRAD_CTRY_CD
	PRAD_PHONE
	PRAD_FAX
	PRAD_EMAIL
	PRAD_PRACTICE_IND*
	PRAD_TYPE_MAIL*

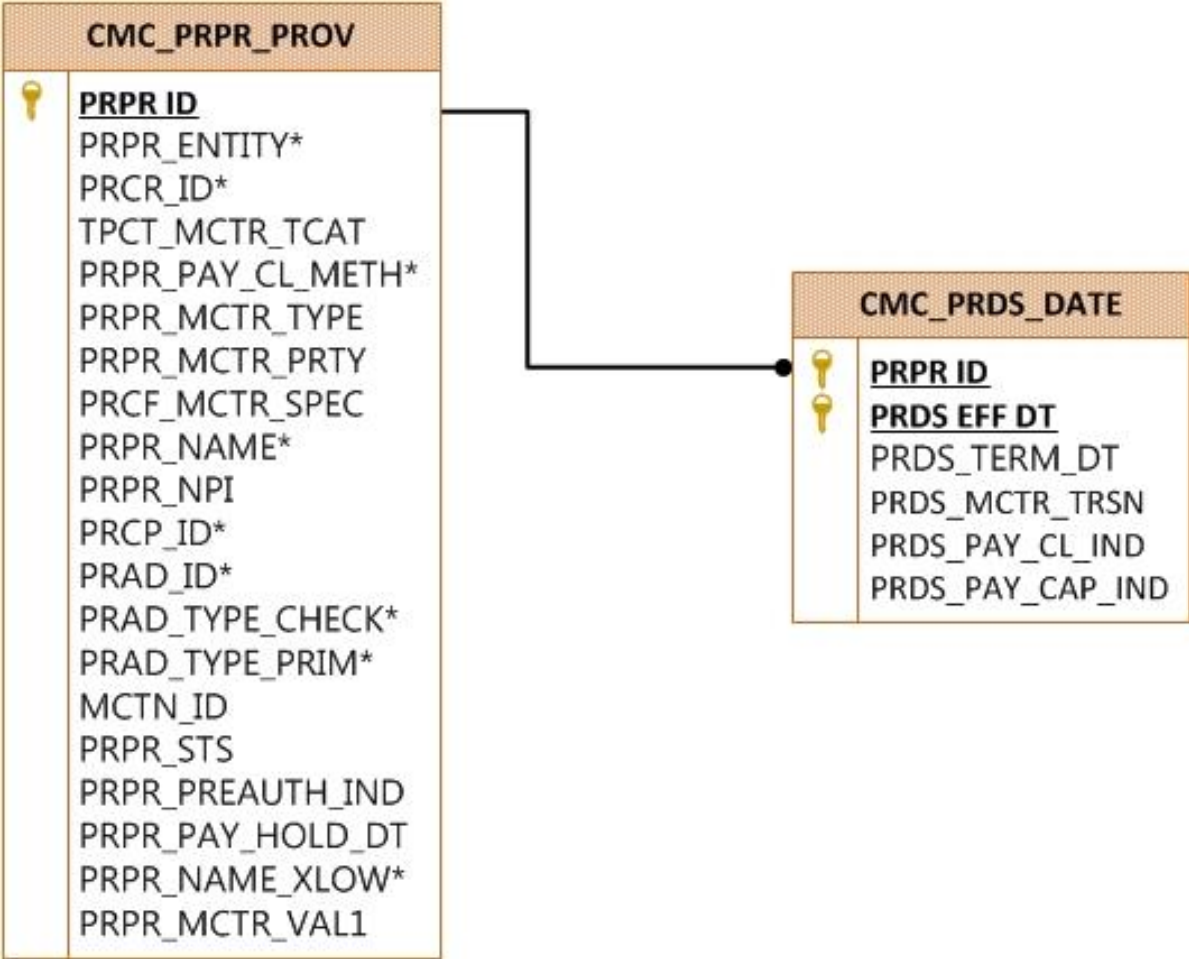
Provider Tax Name Table

CMC_MCTN_TAX_NAME	
	<u>MCTN ID</u>
	<u>MCTN TYPE</u>
	MCTN_NAME
	MCTN_LST_NAME
	MCTN_FIRST_NAME
	MCTN_STATUS
	MCTN_ADDR1
	MCTN_CITY
	MCTN_STATE
	MCTN_ZIP
	MCTN_COUNTY
	MCTN_PHONE
	MCTN_FAX
	MCTN_EMAIL

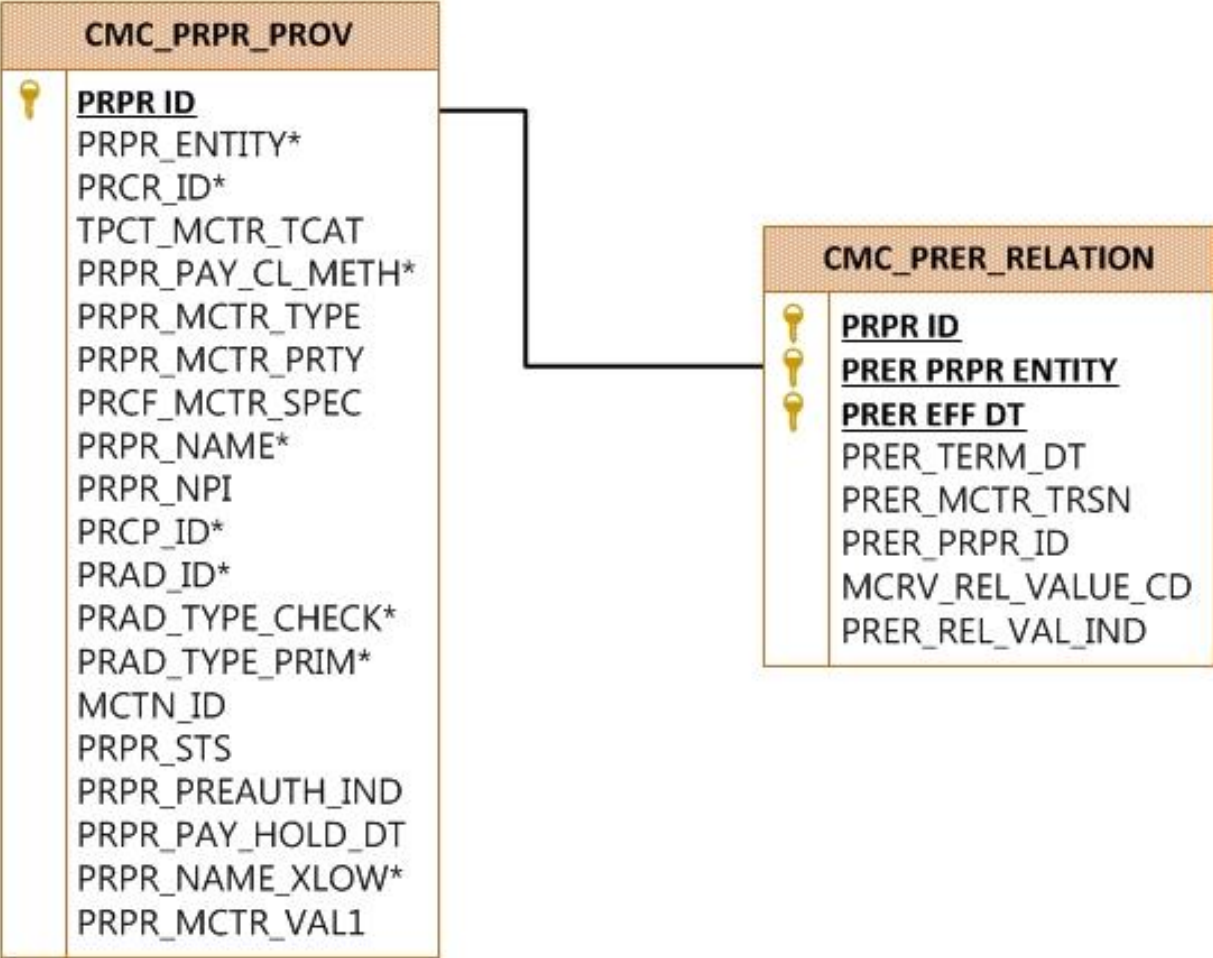
Provider Tax Information Table

CMC_MCTI_TAX_INFO	
	<u>MCTI ENTY ID</u>
	<u>MCTI TYPE</u>
	<u>MCTI EFF DT</u>
	MCTI_TERM_DT
	MCTI_MCTR_TRSN
	MCTN_ID
	MCTN_TYPE

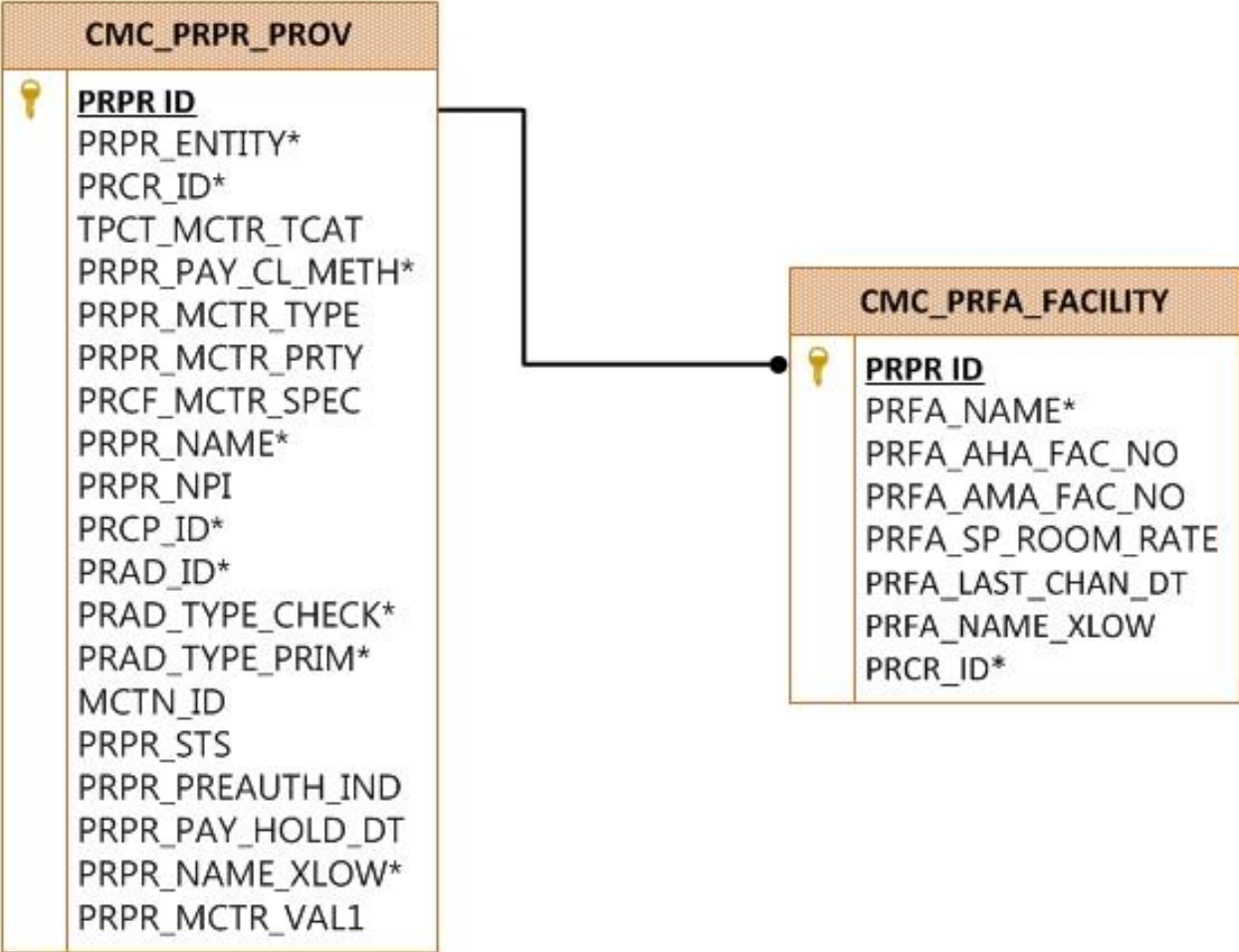
Provider Date Sensitivity Table



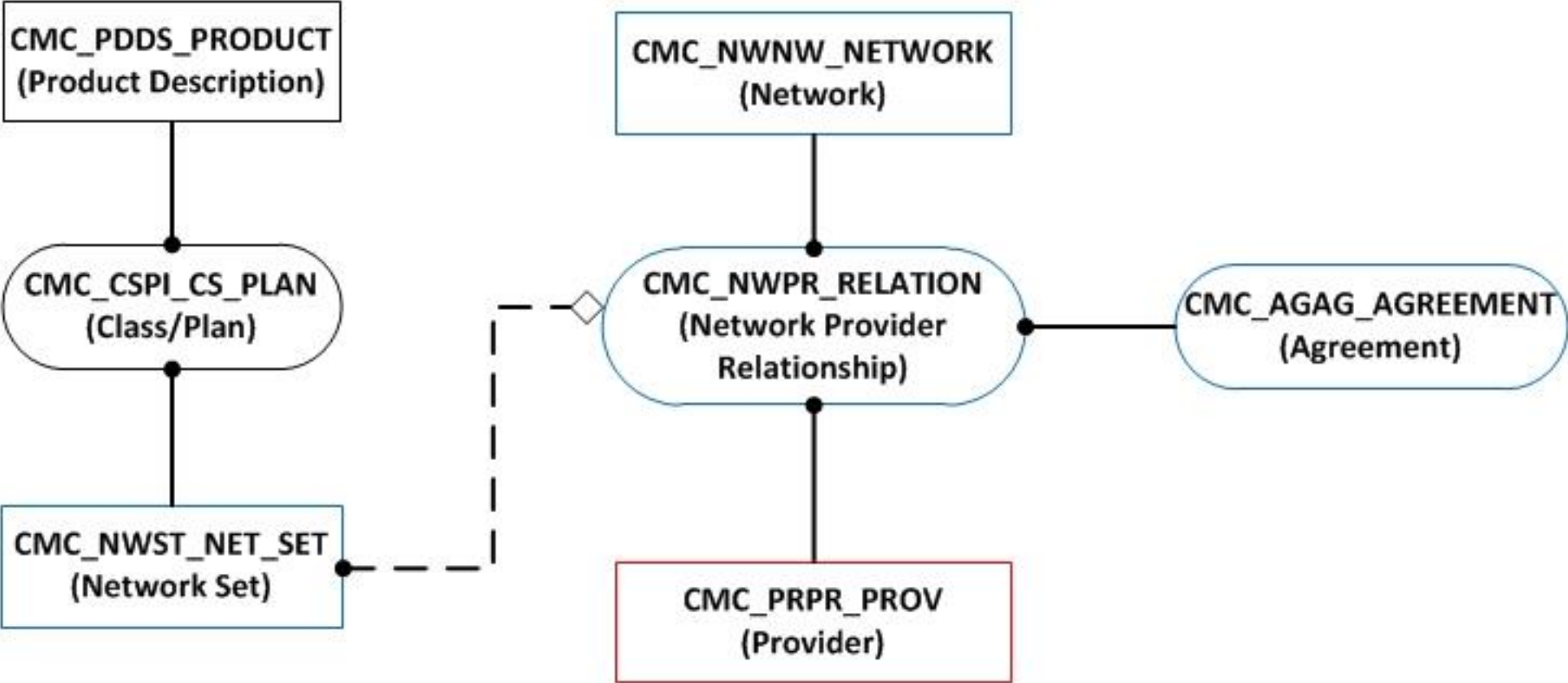
Provider Entity Relationship Table



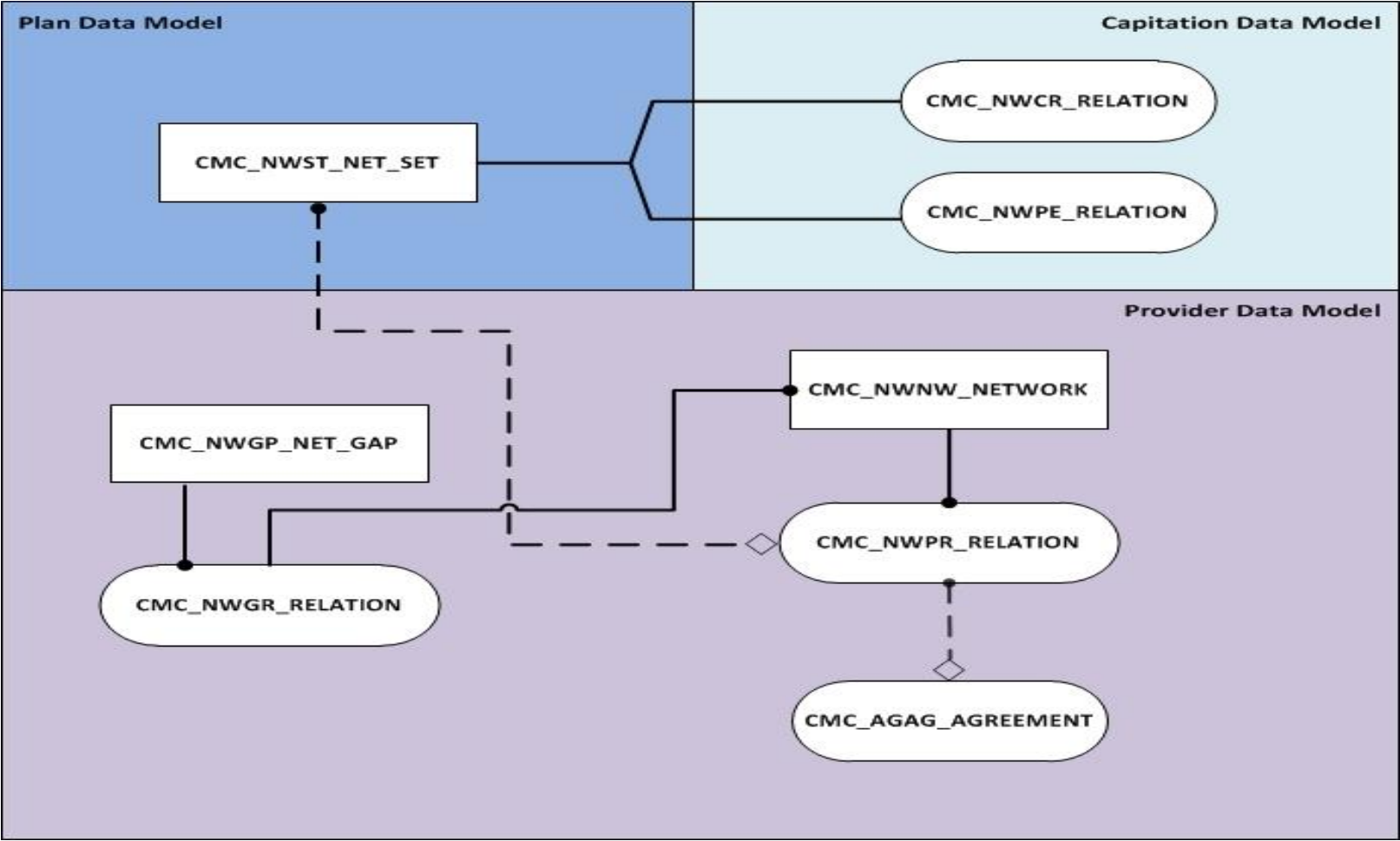
Facility Table



Provider Network Structure








Network Table Domains








Provider Network Relationship





NWPR
(Network Provider Relationship)

CMC_NWPR_RELATION	
	PRPR_ID
	NWNW_ID
	NWPR_PFX
	NWPR_PCP_IND
	NWPR_EFF_DT

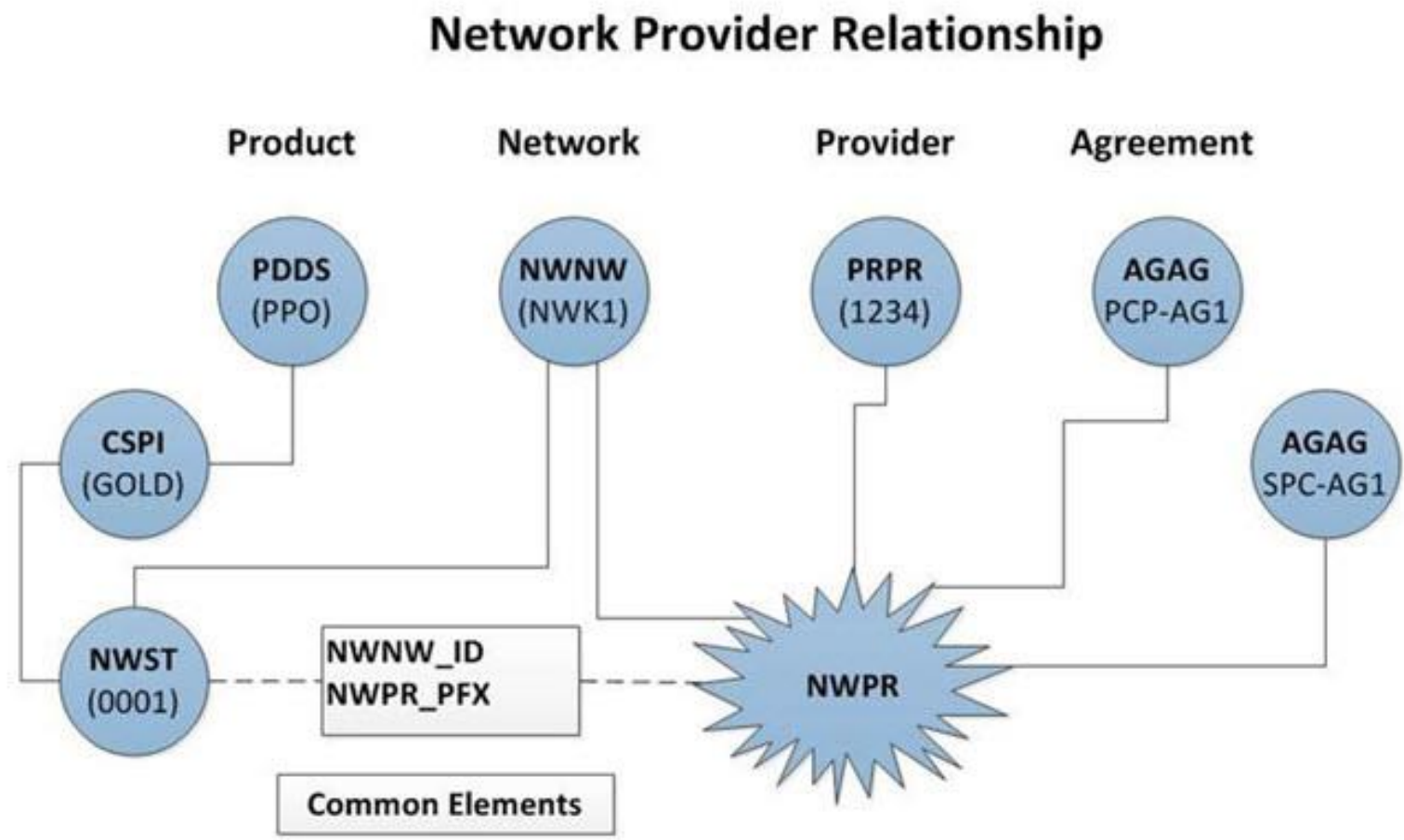
NWPE
(Network PCP Cap Relationship)

CMC_NWPE_RELATION	
	PRPR_ID
	NWNW_ID
	NWPE_PFX
	NWPE_CR_PR_ID
	NWPE_EFF_DT



NWCR
(Network Capitation Relationship)

CMC_NWCR_RELATION	
	NWNW_ID
	NWCR_PFX
	NWCR_CR_PR_ID
	NWCR_EFF_DT

Provider Network Relationship Contd..



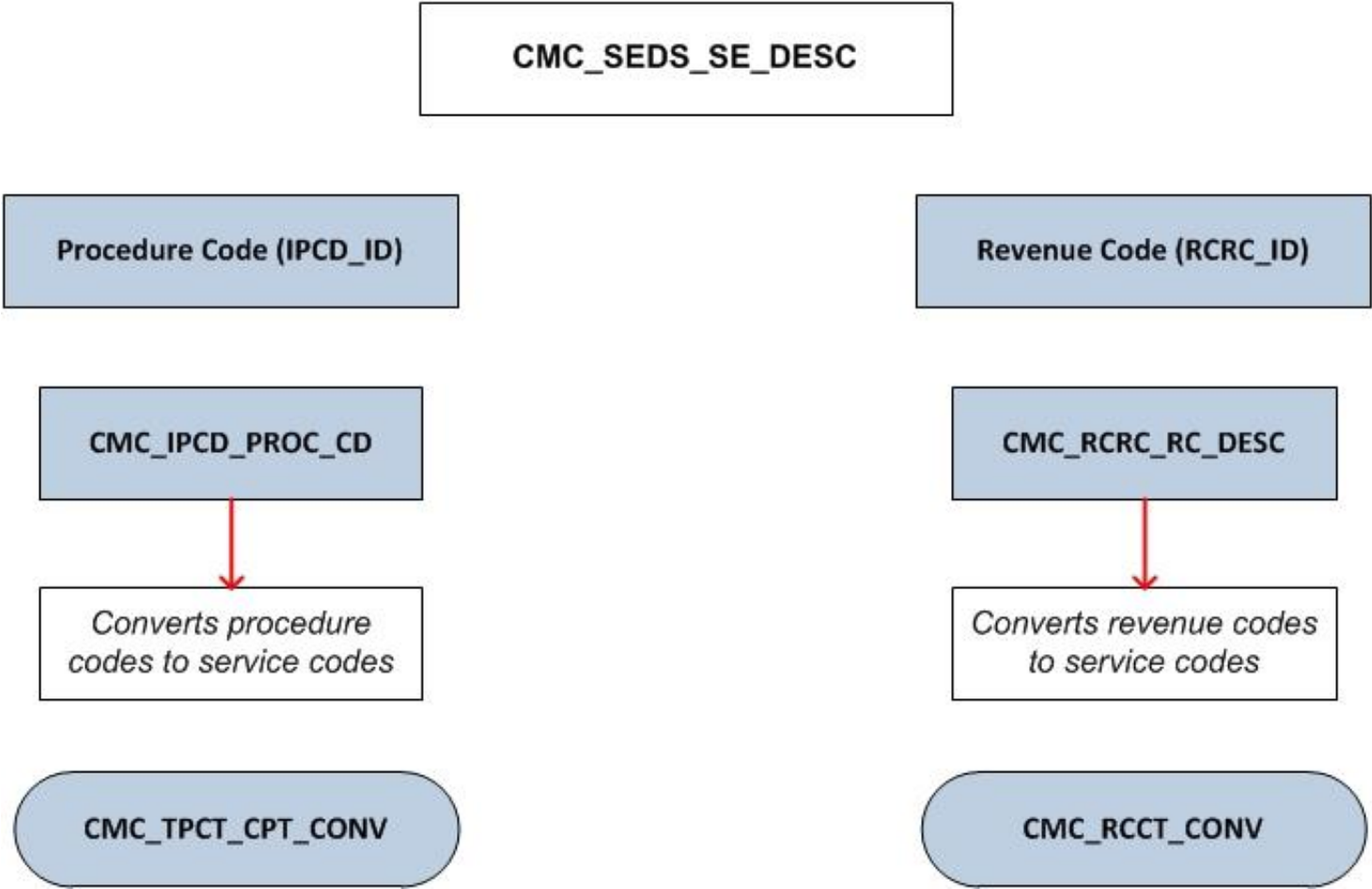
Agreement Table

CMC_AGAG_AGREEMENT	
	<u>AGAG ID</u>
	<u>AGAG EFF DT</u>
	AGAG_TERM_DT
	AGAG_CAT
	AGAG_MCTR_TYPE
	AGAG_CL_ACPT_MTHS
	AGAG_IP_PRICE_IND
	AGAG_OP_PRICE_IND
	AGAG_OP_MULT_PCT
	AGAG_OL_IND
	AGSE_PFX
	PFPF_ID
	AGAG_PF_IND
	AGAG_NWX_PROF_IND
	AGAG_DESC

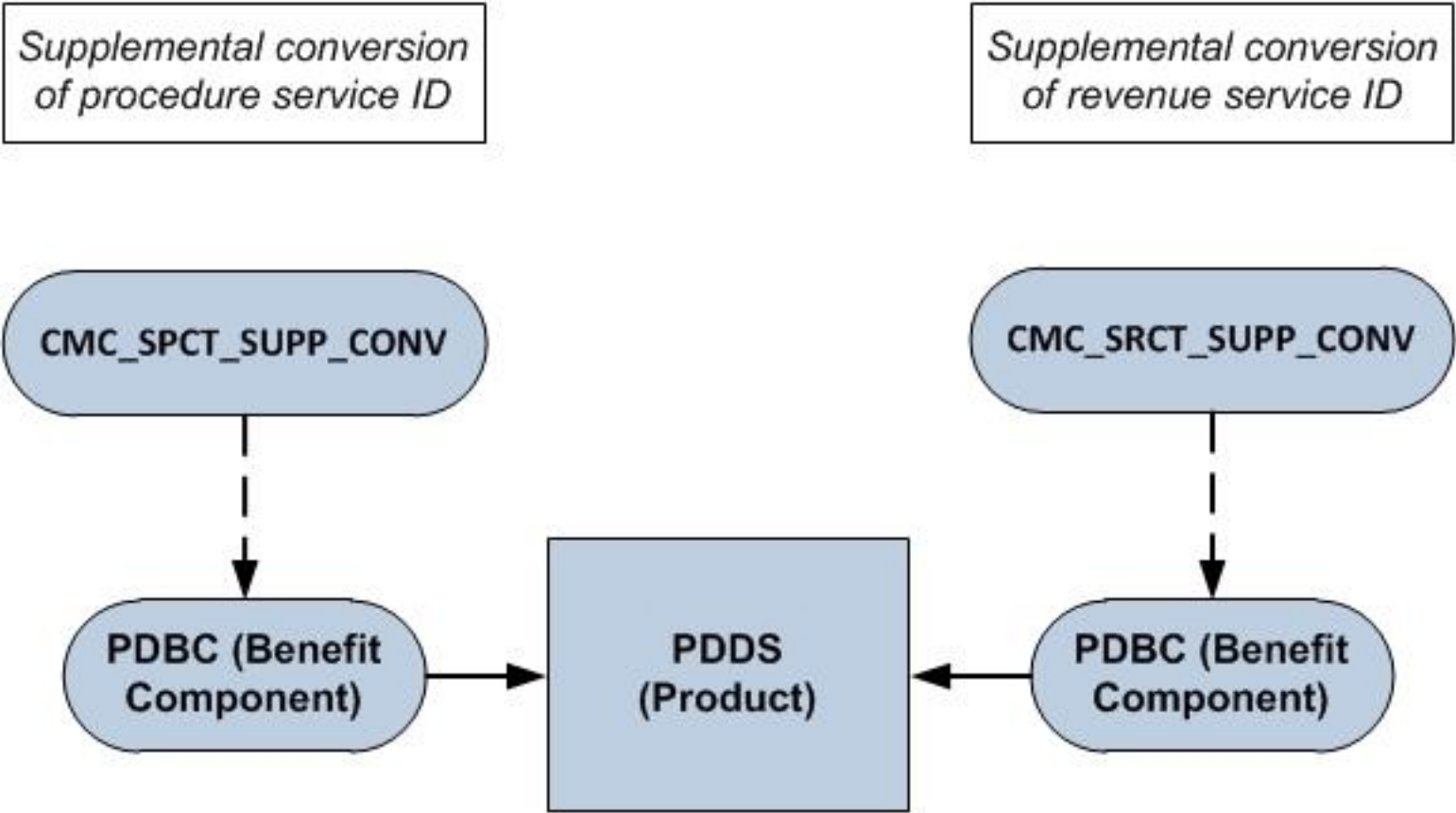
Claims and Accounting

– Data Model

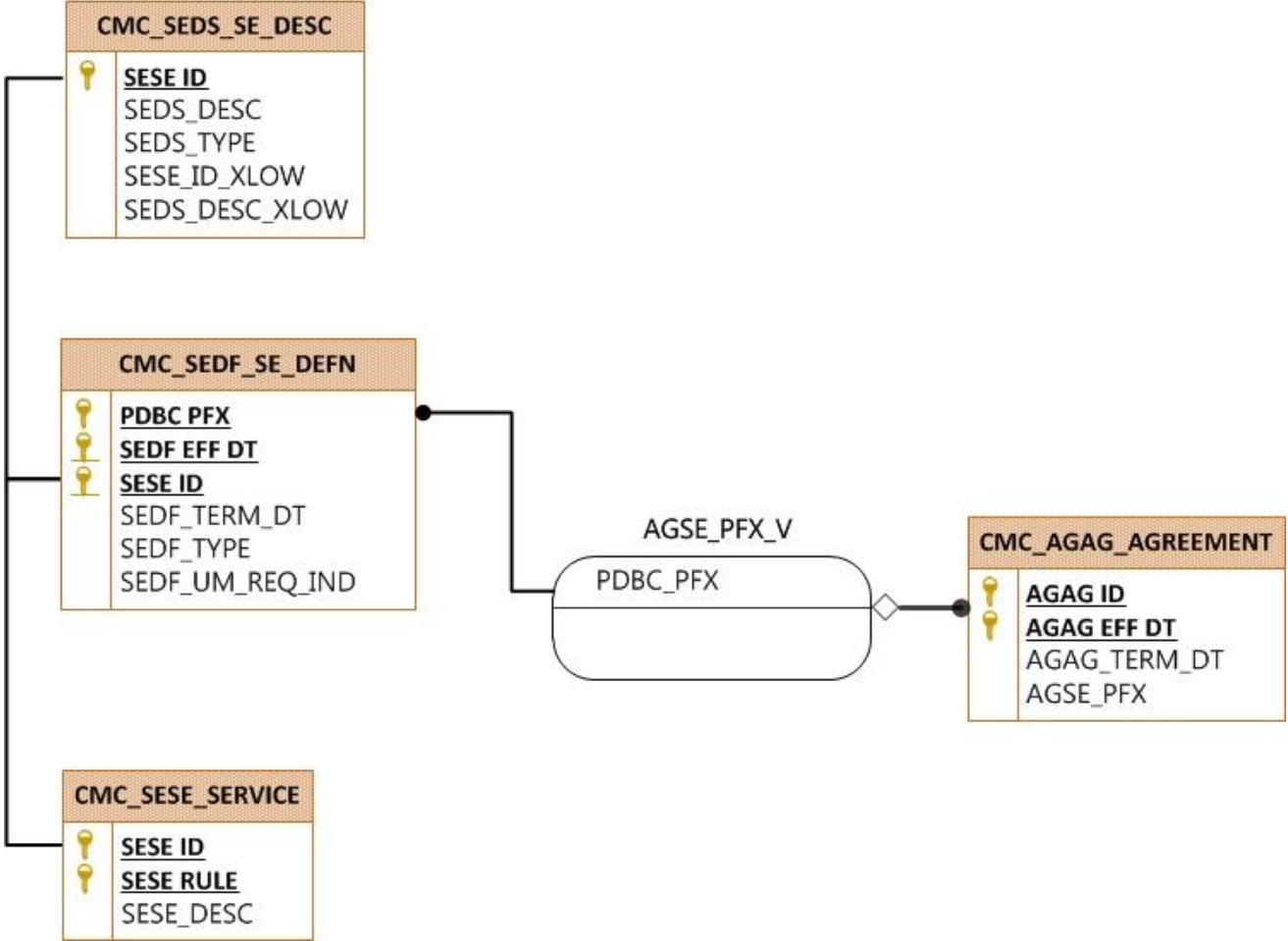
Service Conversion Process



Service Conversion Process Contd..



Pricing

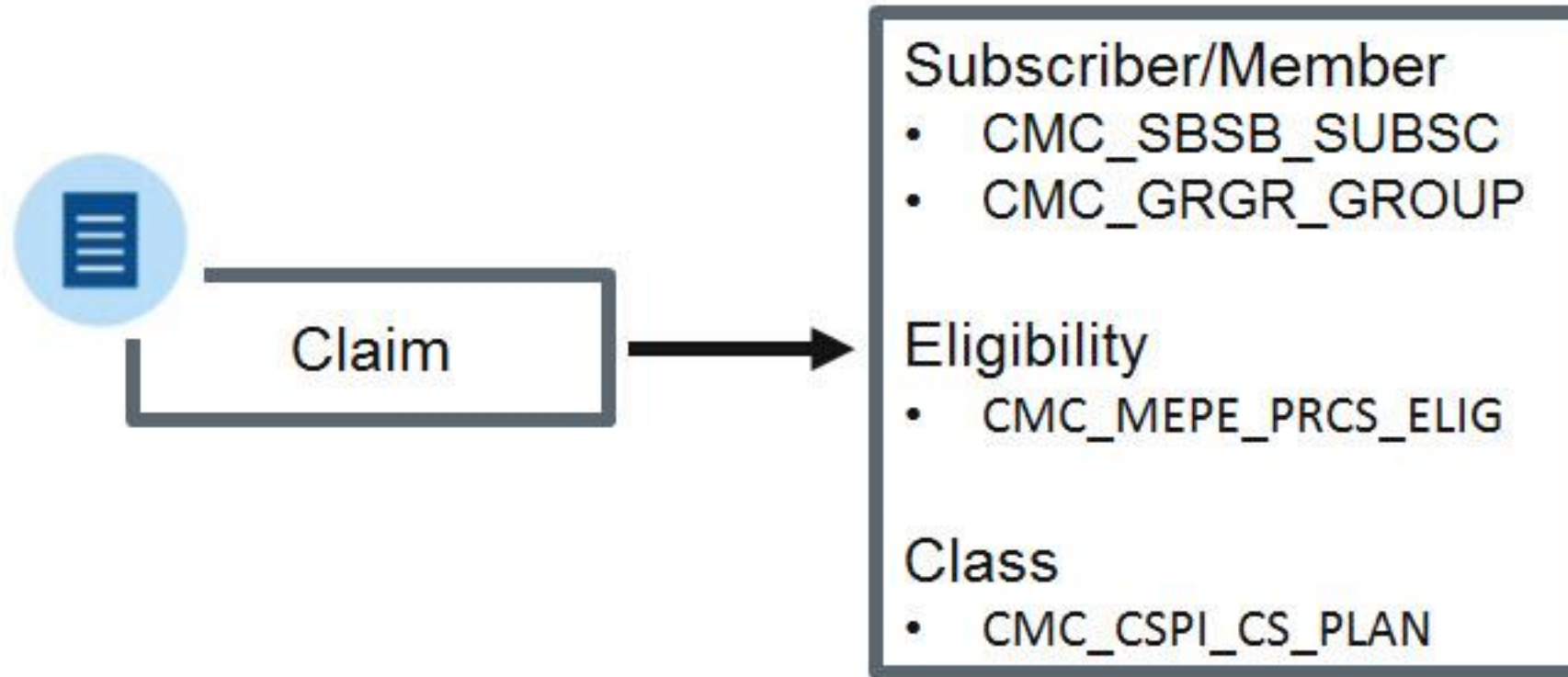


NetworX Tables

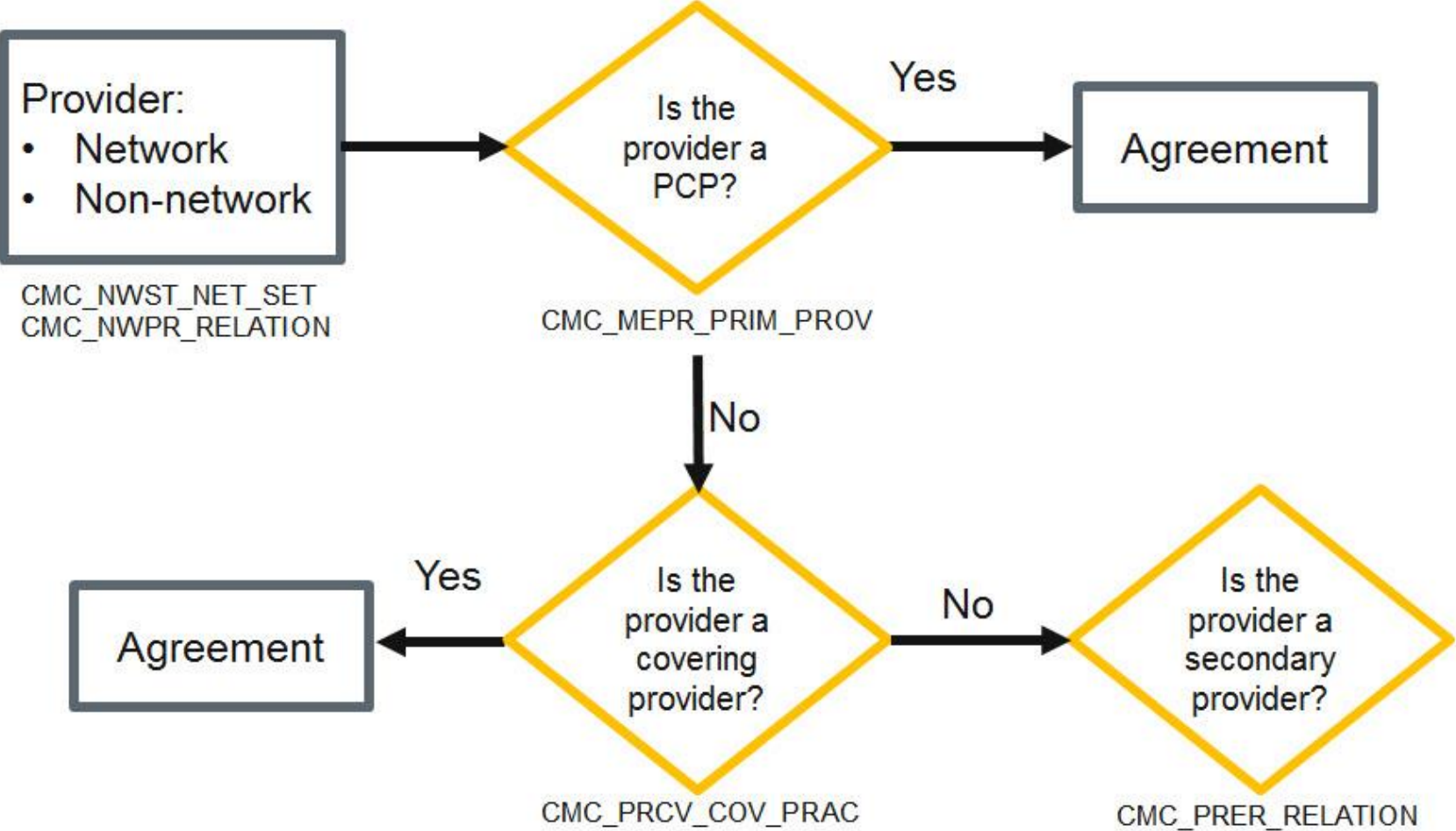
Integrated Pricer NetworX Tables:

- NWX_NSRS_RATE_SHT
- NWX_NRST_RS_TERMS
- NWX_NSHC_SCHEDULES
- NWX_NCGP_CD_GROUP
 - NWX_NQBN_QUAL_BEAN
 - NWX_NCGV_CD_VALUE

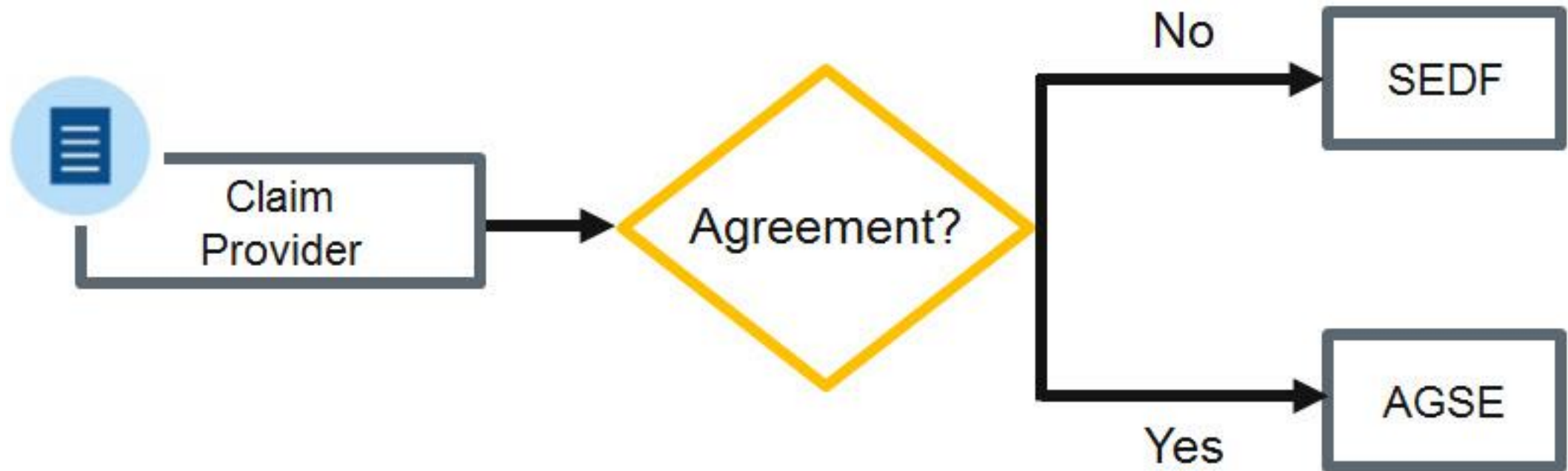
Claim Adjudication Process Step One



Claim Adjudication Process Step Two



Claim Adjudication Process Step Three



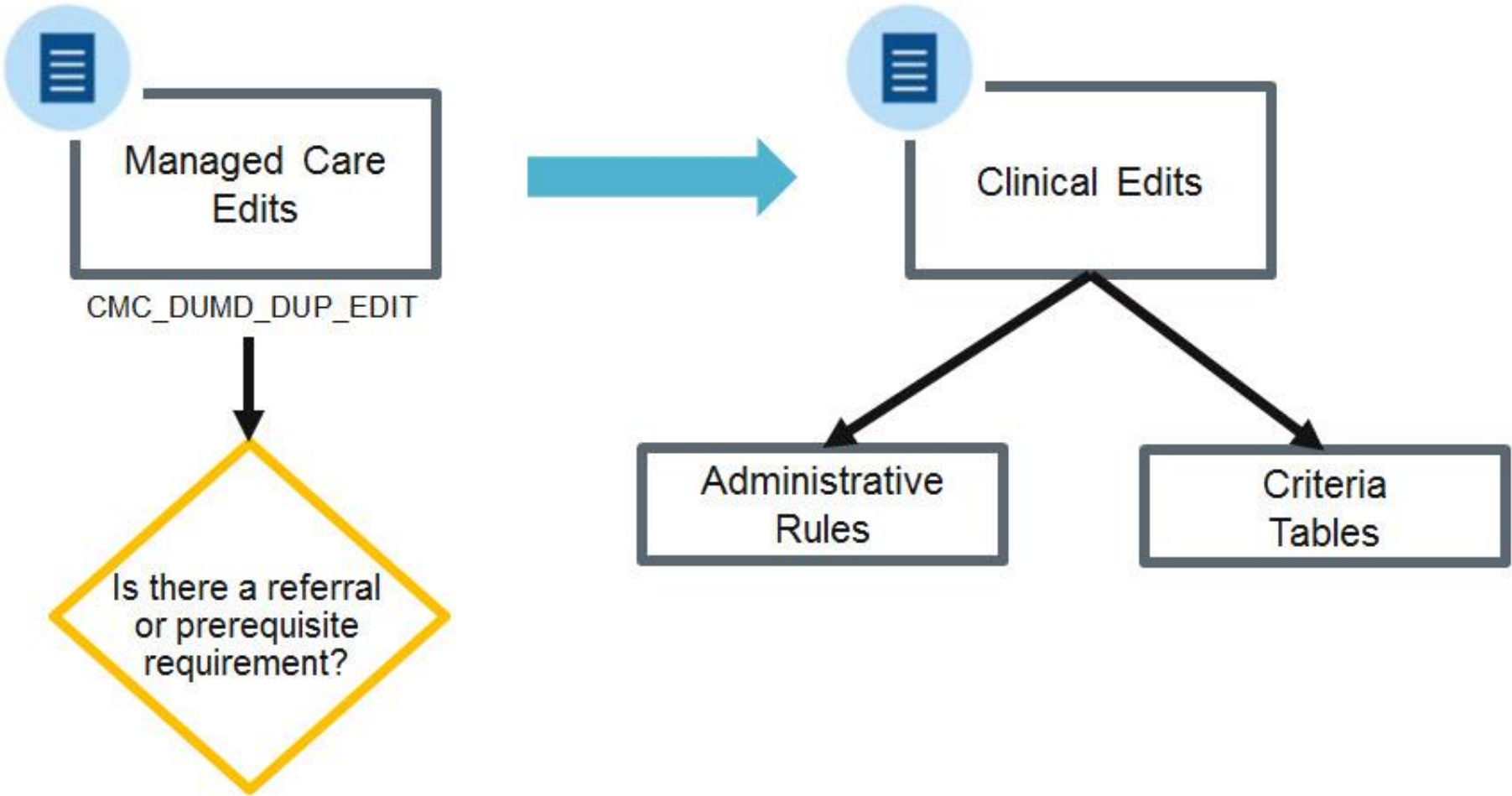
Claim Adjudication Process Steps Four and Five

Step four is charge roll ups:

- All-inclusive per diem
- All-inclusive per case
- DRG pricing types

Step five is duplicate editing and claims history check.

Claim Adjudication Process Steps Six and Seven

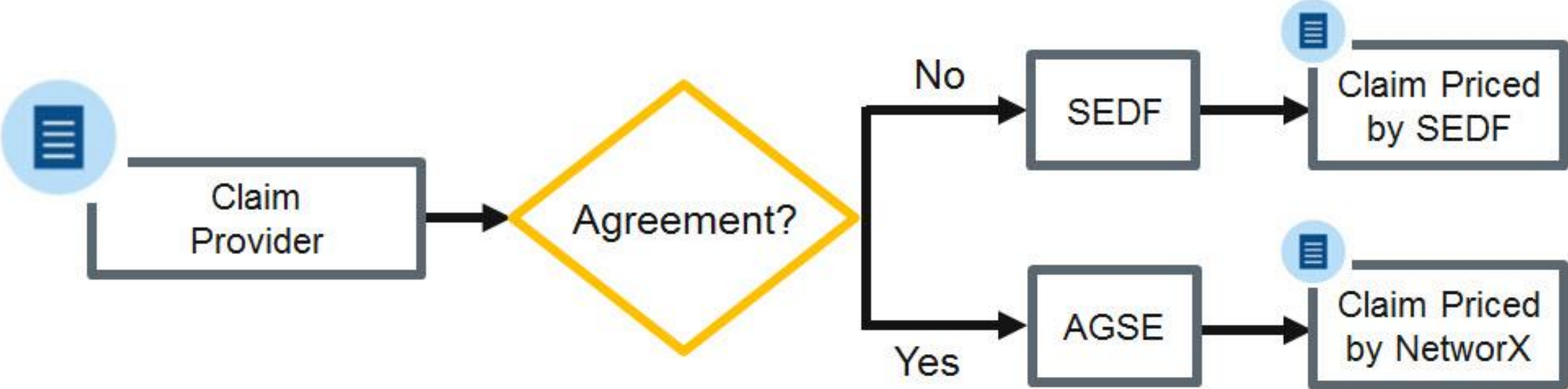


Claim Adjudication Process Step Eight

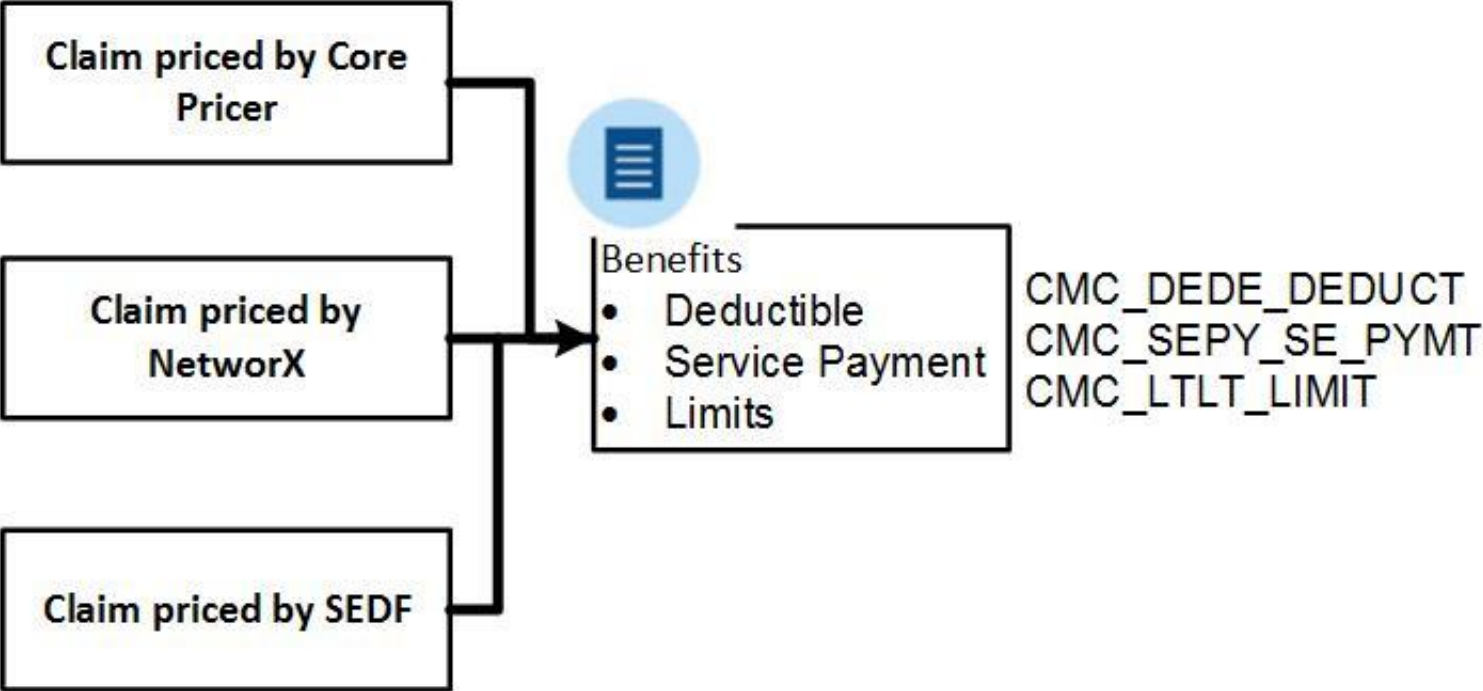
In step eight, line item prefixes populate:

- CMC_CDML_CL_LINE
- CMC_CDDL_CL_LINE

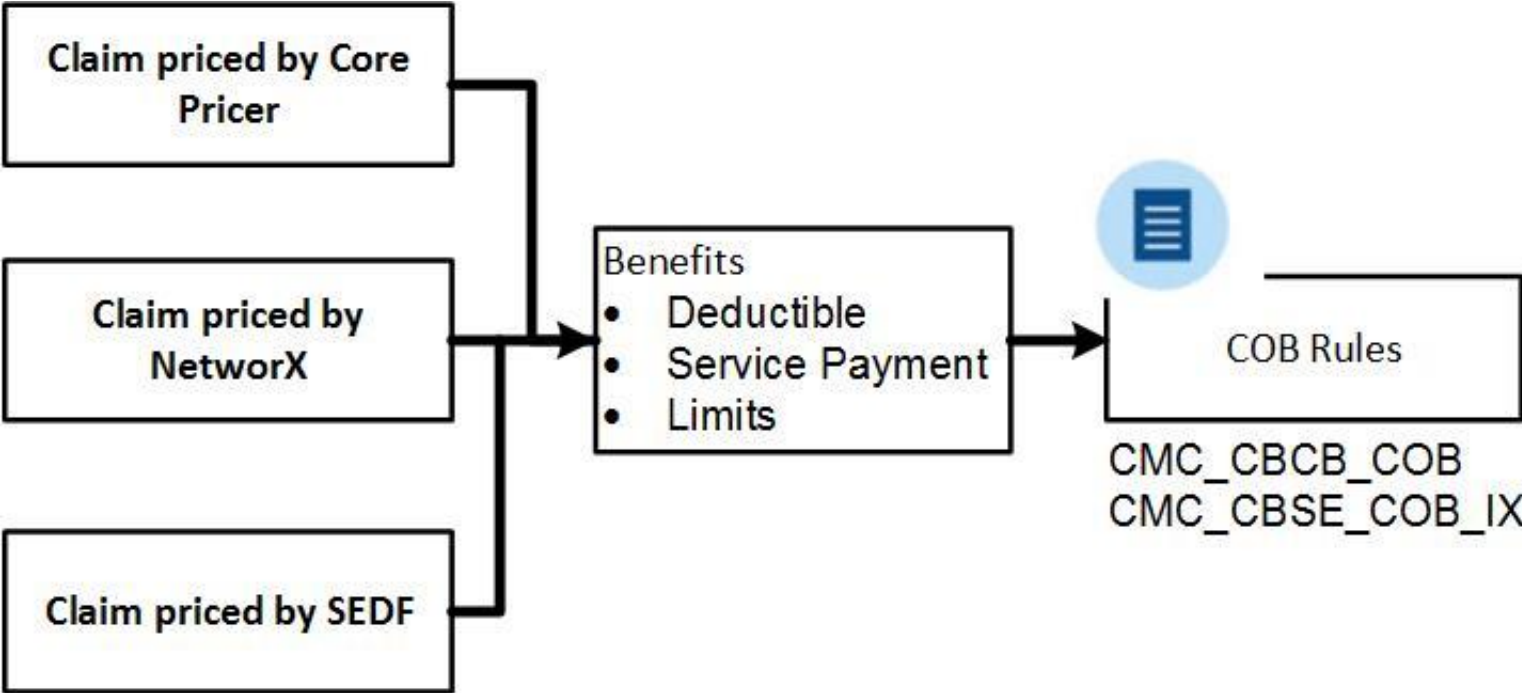
Claim Adjudication Process Step Nine



Claim Adjudication Process Step 10



Claim Adjudication Process Step 11



Claim Adjudication Process Steps 12 and 13

In step 12, there is payment drag:

- CMC_AIAI_ADM_INFO
- CMC_AGAG_AGREEMENT

In step 13, update accumulators:

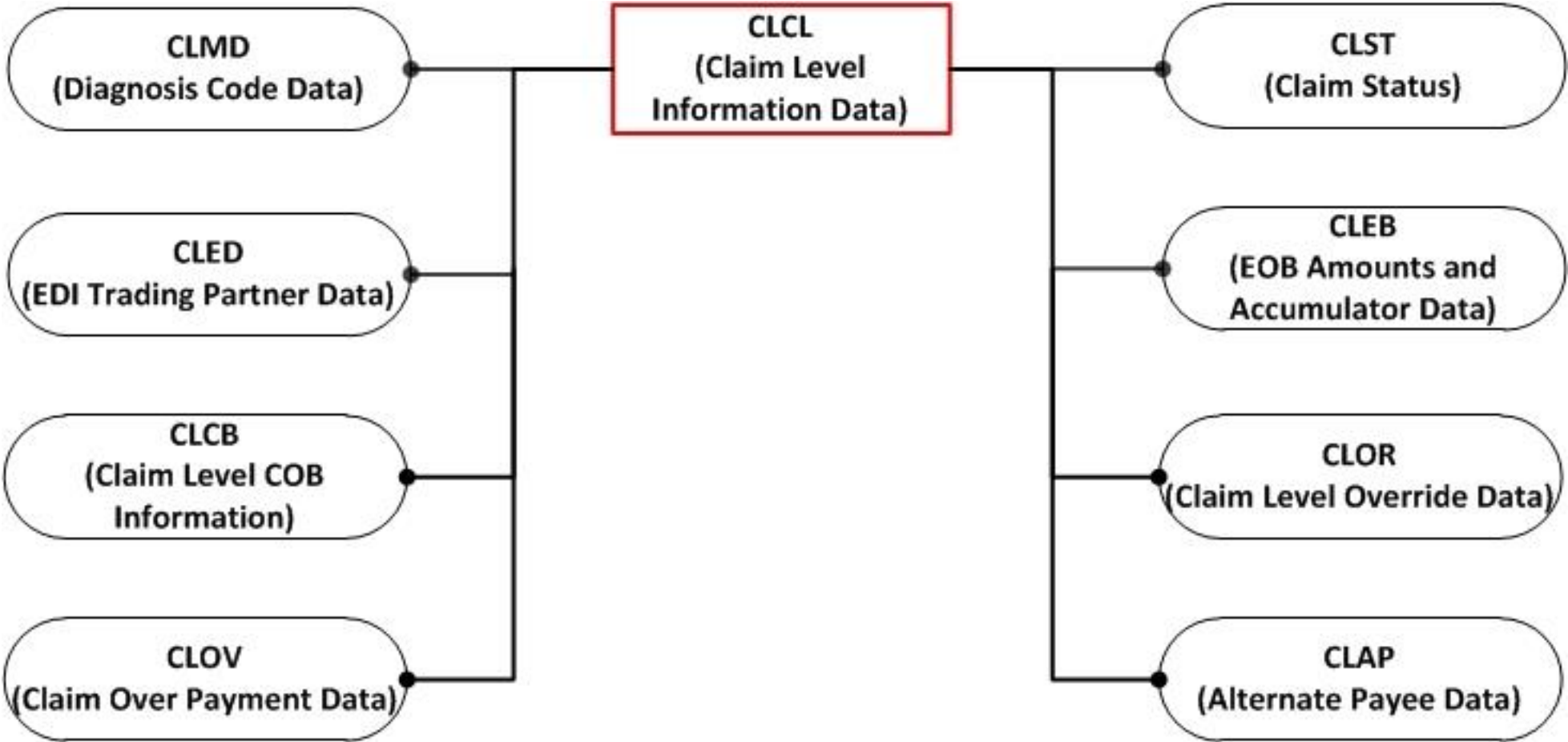
- CMC_EBCL_EOB_DATE
- CMC_MATX_ACCUM_TXN
- CMC_FATX_ACCUM_TXN

Claim Adjudication Process Step 14


Update claim status:

- 01 - Claim awaiting batch
- 15 - Claim pends with error

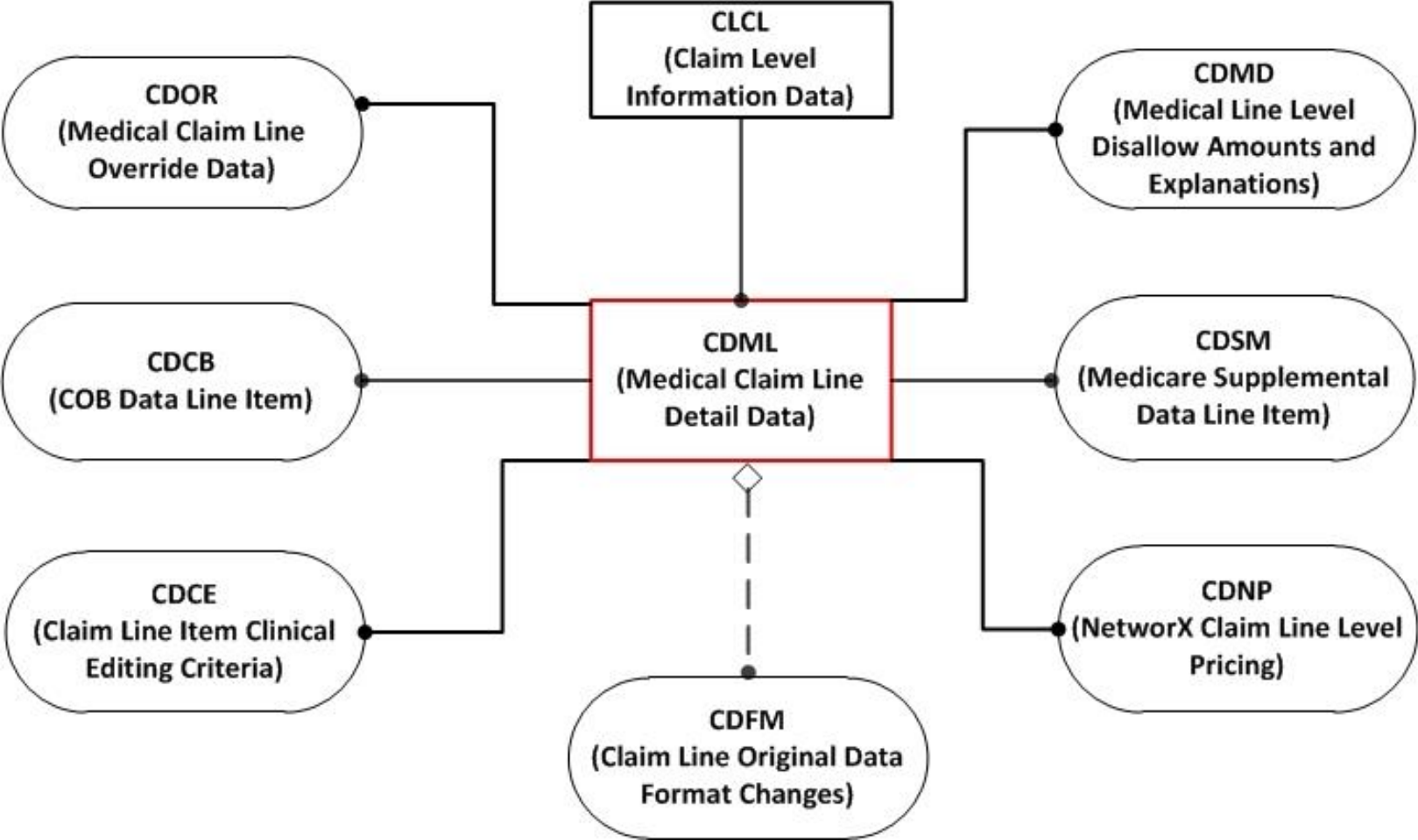
Claims Tables





Claim Summary Table

CMC_CLCL_CLAIM	
	<div><div>CLCL ID</div><div>MEME_CK*</div><div>GRGR_CK*</div><div>SBSB_CK*</div><div>SGSG_CK*</div><div>PRPR_ID*</div><div>CLCL_CL_TYPE*</div><div>CLCL_CL_SUB_TYPE*</div><div>CLCL_CUR_STS*</div><div>CLCL_SITE*</div><div>CLCL_LAST_ACT_DTM*</div><div>CLCL_INPUT_DT*</div><div>CLCL_RECD_DT*</div><div>CLCL_ACPT_DTM*</div><div>CLCL_LOW_SVC_DT*</div><div>CLCL_HIGH_SVC_DT*</div><div>CSPD_CAT*</div><div>CSCS_ID*</div><div>CSPI_ID*</div><div>PDPD_ID*</div><div>MEPE_FI*</div><div>MEPE_PLAN_ENTRY_DT*</div><div>CLCL_COBRA_IND*</div><div>CLCL_ME_AGE*</div><div>MEME_REL*</div><div>MEME_SEX*</div><div>MEME_RECORD_NO*</div><div>PDBC_PFX_SEDF*</div></div>



Claim Line Item Detail Data



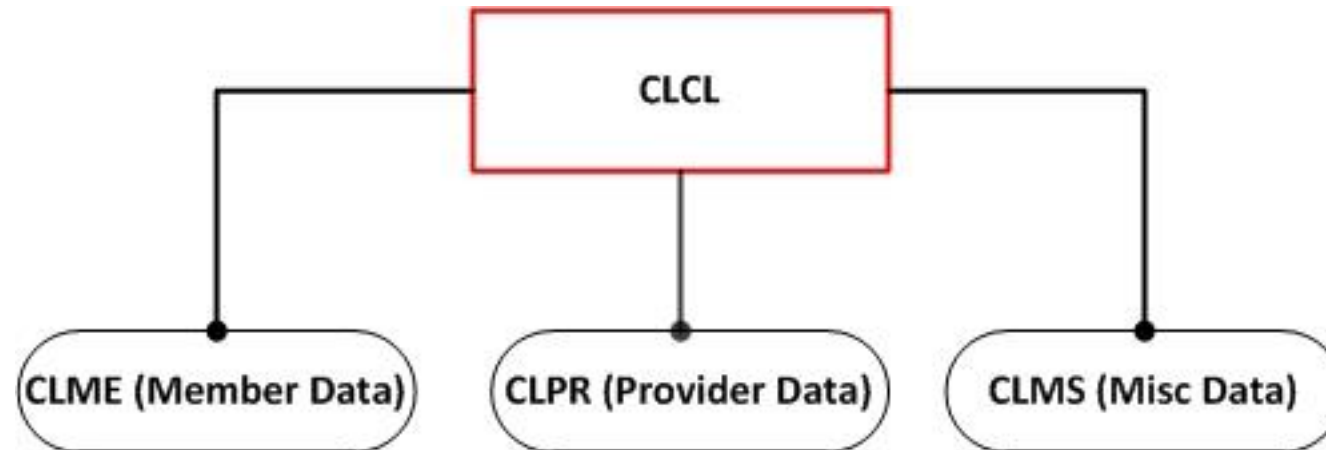
Claim Line Item Details Table

CMC_CDML_CL_LINE	
	<u>CLCL ID</u>
	<u>CDML SEQ NO</u>
	MEME_CK*
	PRPR_ID*
	LOBD_ID*
	PDVC_LOBD_PTR*
	CDML_CUR_STS*
	SEPC_PRICE_ID*
	SESE_ID*
	SESE_RULE*
	PSCD_ID*
	IDCD_ID*
	IDCD_ID_REL*
	CDML_FROM_DT*
	CDML_TO_DT*
	CDML_CHG_AMT*
	CDML_CONSIDER_CHG*
	CDML_ALLOW*
	CDML_UNITS_ALLOW*
	CDML_DED_AMT*
	CDML_COPAY_AMT*
	CDML_COINS_AMT*
	CDML_AG_PRICE*
	CDML_CL_NTWK_IND*

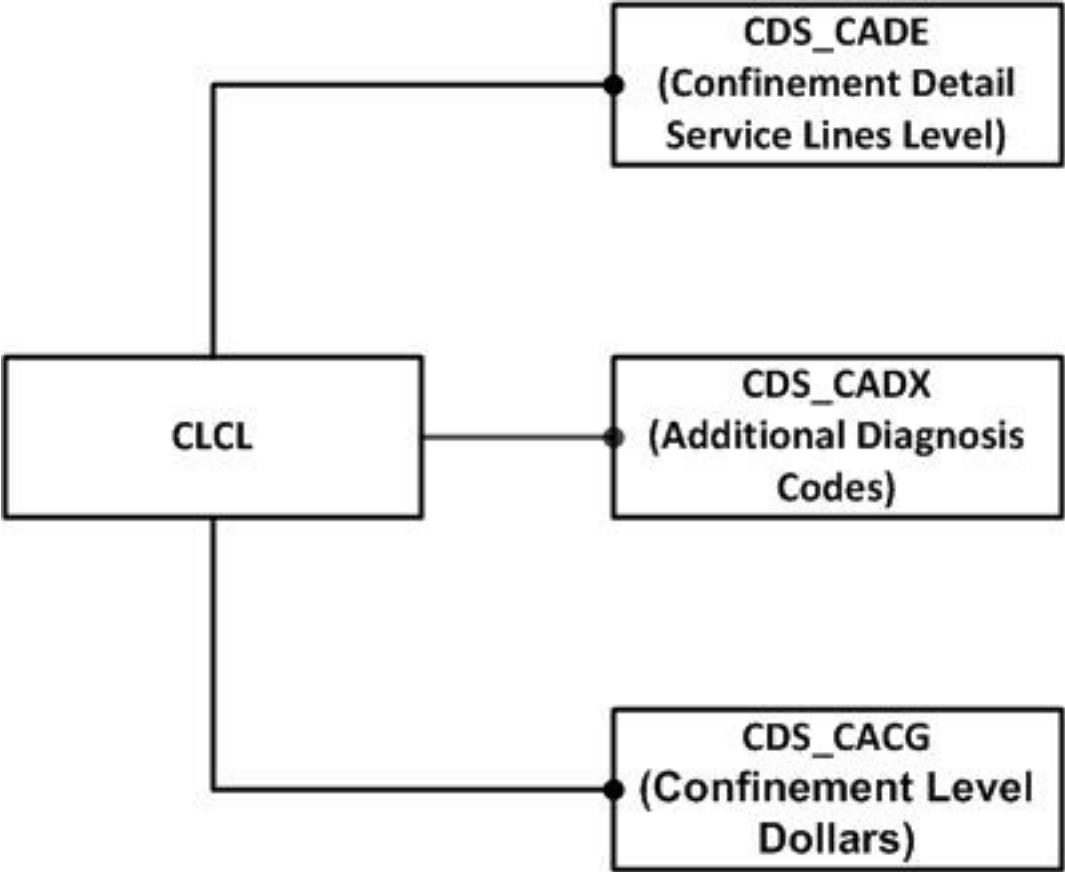
Medical Claim Diagnosis Table

CMC_CLMD_DIAG	
	<u>CLCL ID</u>
	<u>CLMD TYPE</u>
	MEME_CHK*
	IDCD_ID
	CLMD_POA_IND
	IDCD_ID_SUB*
	IDCD_ID_TRANS

XC Electronic Adjudication



Inpatient Confinement Reporting



Claim Underpayment

CLCL

<u>Claim Id</u>	<u>Status</u>	<u>Paid Amt</u>	<u>Claim ID Adjusted To / From</u>
111111111100	01, 02, 91	\$50	To: 111111111101
111111111101	01, 02	\$100	From: 111111111100

CDML

<u>Claim Id</u>	<u>Line</u>	<u>Status</u>	<u>Paid Amt</u>
111111111100	1	01, 02, 91	\$25
111111111100	2	01, 02, 91	\$25
<hr/>			
111111111101	1	01, 02	\$75
111111111101	2	01, 02	\$25

CLST

<u>Claim Id</u>	<u>Status</u>
111111111100	01
111111111100	02
111111111100	91
<hr/>	
111111111101	01
111111111101	02

Claim Overpayment

CLCL

<u>Claim ID</u>	<u>Status</u>	<u>Paid Amt</u>	<u>Claim ID Adj To / From</u>
111111111100	01, 02, 91	\$100	To: 111111111101
111111111101	01, 02	\$25	From: 111111111100

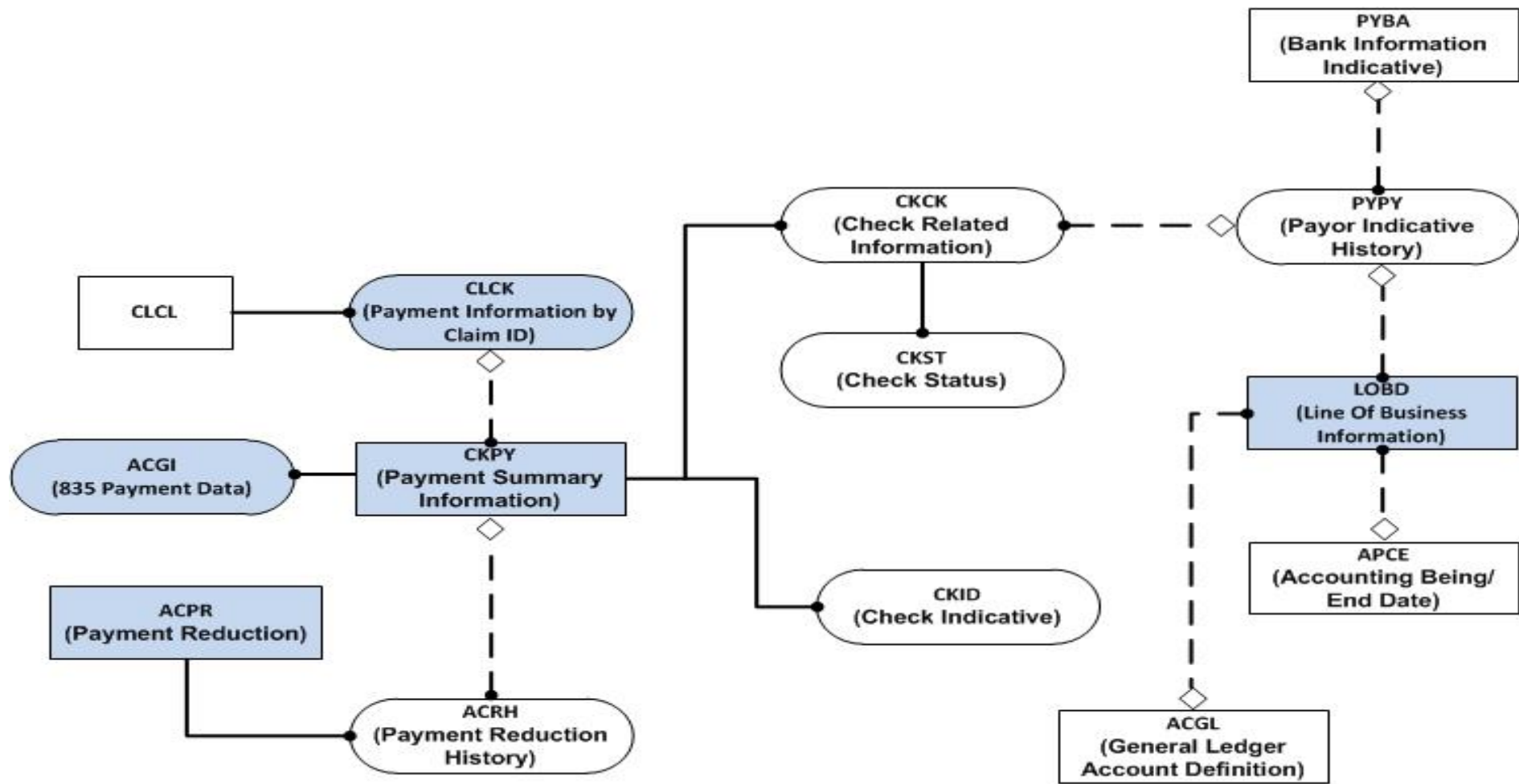
CLOV

<u>Claim ID</u>	<u>Overpay Amt</u>	<u>ACPR REF ID</u>
111111111100	\$ 75	990101945678010203

ACPR

ACRH




Accounting Tables




Line of Business Table

CMC_LOBD_LINE_BUS	
	<div><div><u>LOBD ID</u></div><div>LOBD_NAME*</div><div>LOBD_ADDR1*</div><div>LOBD_CITY*</div><div>LOBD_STATE*</div><div>LOBD_ZIP*</div><div>LOBD_COUNTY</div><div>LOBD_PHONE</div><div>LOBD_FAX</div><div>LOBD_EMAIL</div><div>LOBD_PAY_CL_METH*</div><div>LOBD_EOB_COPY_IND</div><div>PYPY_ID*</div><div>LOBD_ID_COMM*</div><div>LOBD_CR_RED_IND</div><div>LOBD_PR_RED_IND</div></div>



Payment Information by Claim ID Table

CMC_CLK_CLM_CHECK	
	<u>CLCL ID</u>
	<u>CLK PAYEE IND</u>
	<u>LOBD ID</u>
	CKPY_REF_ID*
	CKPY_PAY_DT*
	PRPR_ID*
	MEME_CK*
	SBSB_CK*
	CLK_PAYEE_PR_ID
	CLK_COMB_IND*
	CLK_ORIG_AMT*
	CLK_EOB_IND
	CLK_NTWK_IND
	CLK_NET_AMT*
	CLCL_CL_TYPE*

Payment Summary Info Table

CMC_CKPY_PAYEE_SUM	
	<u>CKPY REF ID</u> CKPY_TYPE* CKPY_PAY_DT* LOBD_ID* CKPY_PAYEE_PR_ID CKPY_PAYEE_CK CKPY_PAYEE_TYPE* CKPY_PYMT_TYPE* CKPY_COMB_IND* CKPY_PER_END_DT* CKPY_ORIG_AMT* CKPY_DEDUCT_AMT* CKPY_NET_AMT* CKPY_CURR_CKCK_SEQ

Payment Reduction Table

CMC_ACPR_PYMT_RED	
	<u>ACPR REF ID</u>
	<u>ACPR SUB TYPE</u>
	ACPR_TX_YR*
	ACPR_TYPE*
	ACPR_CREATE_DT*
	LOBD_ID*
	ACPR_PAYEE_PR_ID
	ACPR_PAYEE_CK
	ACPR_PAYEE_TYPE*
	ACPR_AUTO_REDUCE*
	ACPR_ORIG_AMT*
	ACPR_RECOV_AMT
	ACPR_RECD_AMT
	ACPR_NET_AMT*
	ACPR_STS*
	EXCD_ID

Batch Print Tables

CMC_BPID_IND	
	<u>SYIN INST</u>
	<u>BPID STOCK ID</u>
	<u>BPID TYPE</u>
	<u>BPID SEQ NO</u>
	BPID_STOCK_ID*
	CKPY_REF_ID*
	CKPY_PAYEE_CK*
	CKPY_PAY_DT*
	LOBD_ID*
	LOBD_NAME*
	PYPY_ID*
	PYBA_ID*
	CKPY_PAYEE_TYPE*
	CKCK_PAYEE_NAME*
	CKPY_NET_AMT*
	BPID_PRINTED_DT*
	SYIN_REF_ID*

Lesson Objectives

You are now able to successfully describe:

- Facets Data Model
- Data Types
- Database Terms and Common Columns
- Tables and Keys
- Facets Naming Convention
- Data Dictionary
- Group, Class, Plan, Product – Data Model
- Plan – Data Model
- Subscriber Member – Data Model
- Provider – Data Model
- Claims and Accounting – Data Model

Questions??

Thank you!!