Annex B
Database Entity Relationship Diagrams

1. Overview

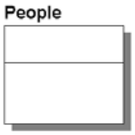
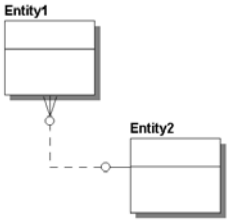
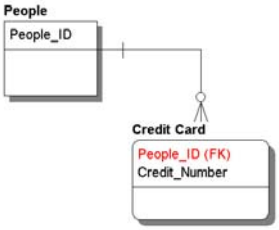
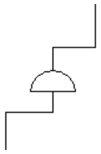
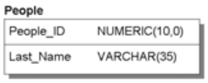
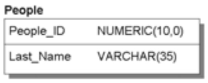
The data model presented in this annex represents a logical view of the database design for the ITL. It does not include all the entities needed for the ITL administrator application, which might include additional report and job catalogs. The logical data model may also include entities and attributes that will not be represented by tables and columns in the physical data model, depending on the way functions are implemented. For example, if the built-in functions of a database system or another 3rd party software are used for user and privileges management, then tables for the entities PEOPLE_SECURITY and PEOPLE_SECURITY_HISTORY may not be needed.

This Entity Relationship Diagram (ERD) and all its submodels are logical data models, not physical database design. Therefore, these models are normalised and may require some denormalisation and other optimization when designing the physical database. These logical data models represent the possible data requirements for the ITL. They do not include the business processing rules that supplement the data model, which can be found in Annex E.

1.1 Conventions and Standards

The following figure describes the naming standards and diagramming conventions used in these models.

Figure B1: Model Conventions and Standards

Element	Name	Description
	Entity	An entity represents a set of real or abstract things (people, places, events) that have common attributes or characteristics. Entities may be either independent or dependent and are the logical equivalent to a table. An independent entity is called a "parent" and the dependent tables to it are "children."
	Relationship	Relationships define how two entities are associated with each other. Relationships may be either optional or mandatory. A dotted line means the relationship is optional and a continuous line means that the relationship is mandatory.
 People People_ID Credit Card People_ID (FK) Credit_Number	Cardinality	The small circle at the end of a relationship line shows the ratio of parent entity to child entities. The presence of the circular dot defines where there is more than one occurrence of a dependent entity. For example, for each person (in the People entity) there is at least one or more Credit Cards associated with that person.
	Subtype	A subtype is a relationship in which information is stored about a specific type of some other entity. For example, a SALARIED EMPLOYEE is a specific type of EMPLOYEE. Subtypes are used for expressing relationships that are only valid for that specific subtype.
	Attributes	An attribute represents a type of characteristic or property about an entity. An attribute is described as having a datatype and length. Datatypes can be numeric, date and/or time, or variable character (Varchar).
	Primary Key	When the attribute uniquely defines a single set of elements within an entity, that attribute (or set of attributes) is referred to as a Primary Key. Primary keys are shown at the top of the entity above the dividing line which distinguishes it from non-primary attributes.

1.2 Overview Model and Submodels

Due to the size of the ERD, the model is divided into subsections. The overview model (Figure B2) is an entity-only view of all entities and their relationships. For the purpose of clarity, all lookup tables which serve as foreign keys in the child tables have been removed from this model. Subsequent submodels may show relevant lookup tables as space provides. The remaining submodels provide attribute, datatype, and cardinality information, supporting the major processing types as defined in Section 3.5 of the ITL Technical Specification.

Figure B2: Logical Model

Figure B2: Overview Model

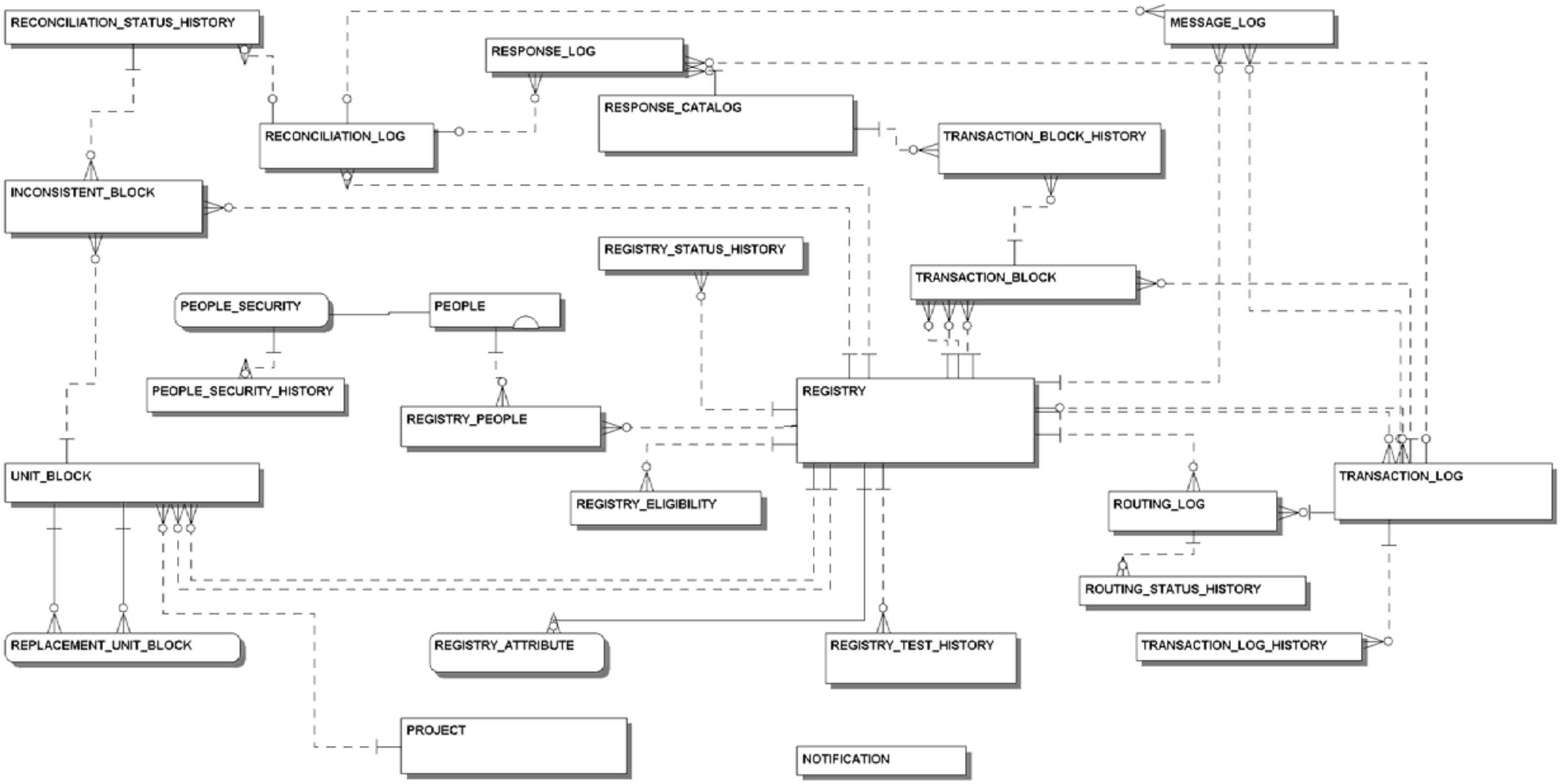


Figure B3: Registry Submodel

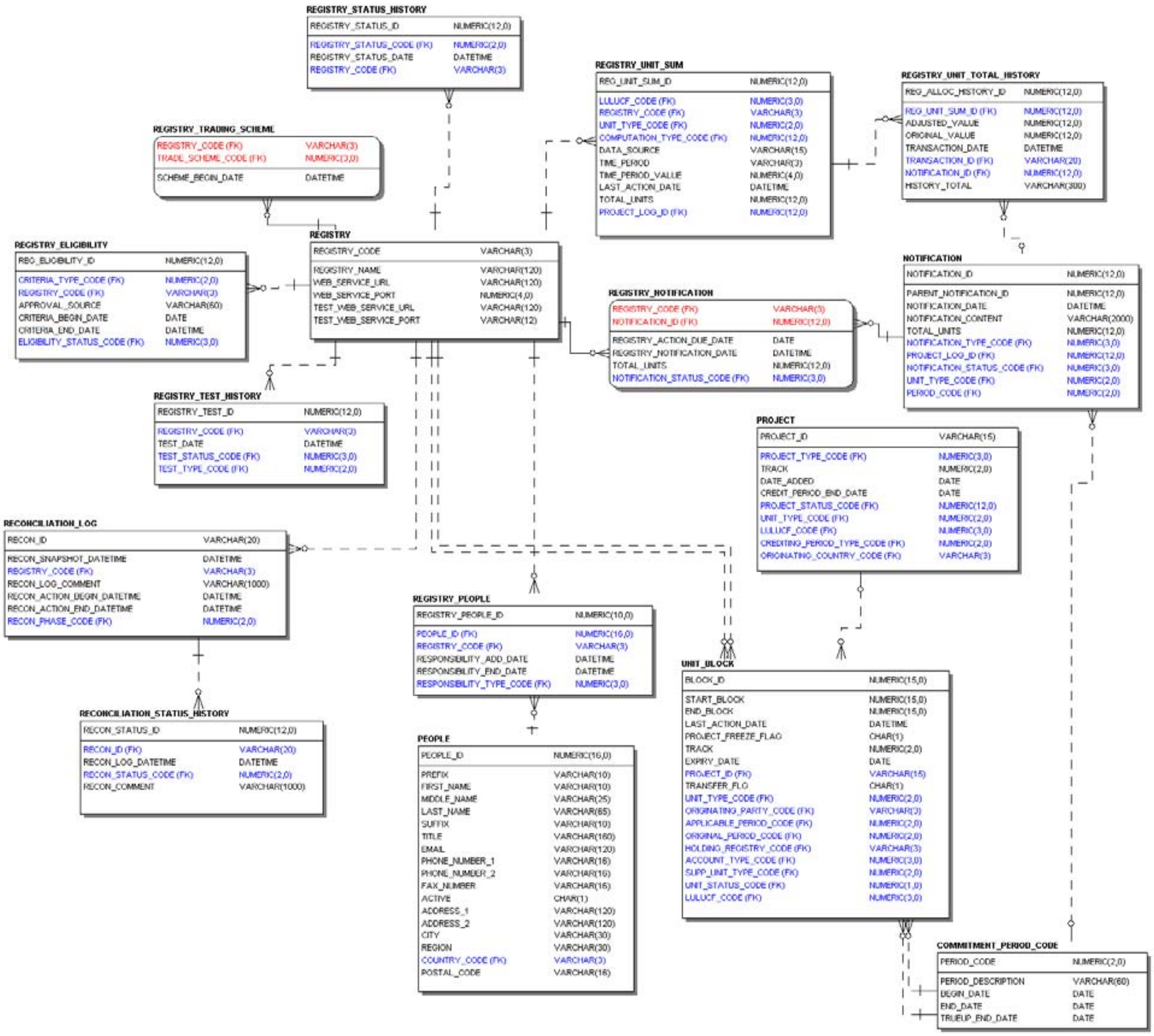
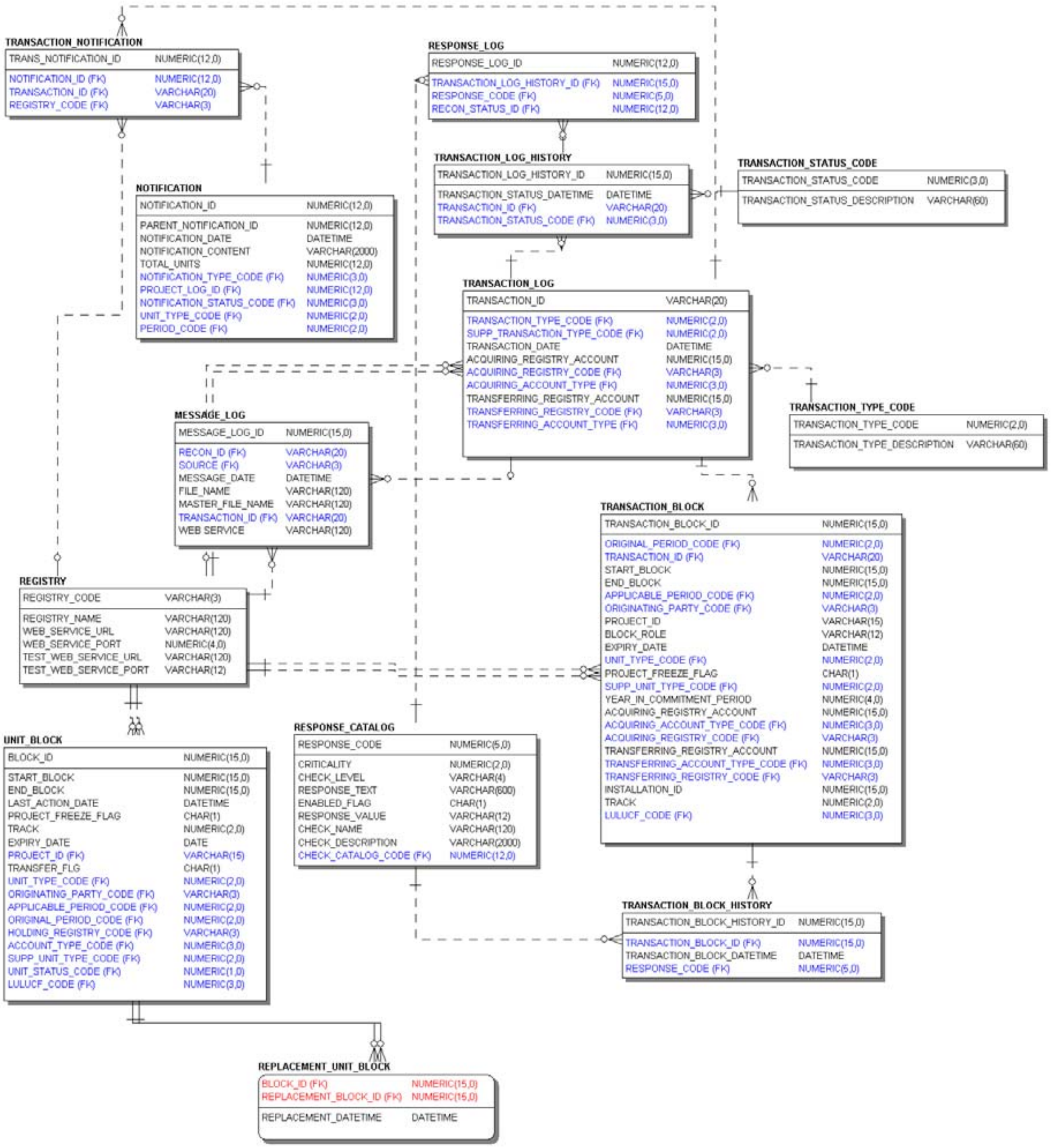

REGISTRY_STATUS_HISTORY
REGISTRY_STATUS_ID NUMERIC(12,0)
REGISTRY_STATUS_CODE (FK) NUMERIC(2,0)
REGISTRY_STATUS_DATE DATETIME
REGISTRY_CODE (FK) VARCHAR(3)
REGISTRY_TRADING_SCHEME
REGISTRY_CODE (FK) VARCHAR(3)
TRADE_SCHEME_CODE (FK) NUMERIC(3,0)
SCHEME_BEGIN_DATE DATETIME
REGISTRY_UNIT_SUM
REG_UNIT_SUM_ID NUMERIC(12,0)
LULUCF_CODE (FK) NUMERIC(3,0)
REGISTRY_CODE (FK) VARCHAR(3)
UNIT_TYPE_CODE (FK) NUMERIC(2,0)
COMPUTATION_TYPE_CODE (FK) NUMERIC(12,0)
DATA_SOURCE VARCHAR(15)
TIME_PERIOD VARCHAR(3)
TIME_PERIOD_VALUE NUMERIC(4,0)
LAST_ACTION_DATE DATETIME
TOTAL_UNITS NUMERIC(12,0)
PROJECT_LOG_ID (FK) NUMERIC(12,0)
REGISTRY_UNIT_TOTAL_HISTORY
REG_ALLOC_HISTORY_ID NUMERIC(12,0)
REG_UNIT_SUM_ID (FK) NUMERIC(12,0)
ADJUSTED_VALUE NUMERIC(12,0)
ORIGINAL_VALUE NUMERIC(12,0)
TRANSACTION_DATE DATETIME
TRANSACTION_ID (FK) VARCHAR(20)
NOTIFICATION_ID (FK) NUMERIC(12,0)
HISTORY_TOTAL VARCHAR(300)
REGISTRY_ELIGIBILITY
REG_ELIGIBILITY_ID NUMERIC(12,0)
CRITERIA_TYPE_CODE (FK) NUMERIC(2,0)
REGISTRY_CODE (FK) VARCHAR(3)
APPROVAL_SOURCE VARCHAR(60)
CRITERIA_BEGIN_DATE DATE
CRITERIA_END_DATE DATETIME
ELIGIBILITY_STATUS_CODE (FK) NUMERIC(3,0)
REGISTRY
REGISTRY_CODE VARCHAR(3)
REGISTRY_NAME VARCHAR(120)
WEB_SERVICE_URL VARCHAR(120)
WEB_SERVICE_PORT NUMERIC(4,0)
TEST_WEB_SERVICE_URL VARCHAR(120)
TEST_WEB_SERVICE_PORT VARCHAR(12)
REGISTRY_NOTIFICATION
REGISTRY_CODE (FK) VARCHAR(3)
NOTIFICATION_ID (FK) NUMERIC(12,0)
REGISTRY_ACTION_DUE_DATE DATE
REGISTRY_NOTIFICATION_DATE DATETIME
TOTAL_UNITS NUMERIC(12,0)
NOTIFICATION_STATUS_CODE (FK) NUMERIC(3,0)
NOTIFICATION
NOTIFICATION_ID NUMERIC(12,0)
PARENT_NOTIFICATION_ID NUMERIC(12,0)
NOTIFICATION_DATE DATETIME
NOTIFICATION_CONTENT VARCHAR(2000)
TOTAL_UNITS NUMERIC(12,0)
NOTIFICATION_TYPE_CODE (FK) NUMERIC(3,0)
PROJECT_LOG_ID (FK) NUMERIC(12,0)
NOTIFICATION_STATUS_CODE (FK) NUMERIC(3,0)
UNIT_TYPE_CODE (FK) NUMERIC(2,0)
PERIOD_CODE (FK) NUMERIC(2,0)
REGISTRY_TEST_HISTORY
REGISTRY_TEST_ID NUMERIC(12,0)
REGISTRY_CODE (FK) VARCHAR(3)
TEST_DATE DATETIME
TEST_STATUS_CODE (FK) NUMERIC(3,0)
TEST_TYPE_CODE (FK) NUMERIC(2,0)
PROJECT
PROJECT_ID VARCHAR(15)
PROJECT_TYPE_CODE (FK) NUMERIC(3,0)
TRACK NUMERIC(2,0)
DATE_ADDED DATE
CREDIT_PERIOD_END_DATE DATE
PROJECT_STATUS_CODE (FK) NUMERIC(12,0)
UNIT_TYPE_CODE (FK) NUMERIC(2,0)
LULUCF_CODE (FK) NUMERIC(3,0)
CREDITING_PERIOD_TYPE_CODE (FK) NUMERIC(2,0)
ORIGINATING_COUNTRY_CODE (FK) VARCHAR(3)
RECONCILIATION_LOG
RECON_ID VARCHAR(20)
RECON_SNAPSHOT_DATETIME DATETIME
REGISTRY_CODE (FK) VARCHAR(3)
RECON_LOG_COMMENT VARCHAR(1000)
RECON_ACTION_BEGIN_DATETIME DATETIME
RECON_ACTION_END_DATETIME DATETIME
RECON_PHASE_CODE (FK) NUMERIC(2,0)
REGISTRY_PEOPLE
REGISTRY_PEOPLE_ID NUMERIC(10,0)
PEOPLE_ID (FK) NUMERIC(16,0)
REGISTRY_CODE (FK) VARCHAR(3)
RESPONSIBILITY_ADD_DATE DATETIME
RESPONSIBILITY_END_DATE DATETIME
RESPONSIBILITY_TYPE_CODE (FK) NUMERIC(3,0)
UNIT_BLOCK
BLOCK_ID NUMERIC(15,0)
START_BLOCK NUMERIC(15,0)
END_BLOCK NUMERIC(15,0)
LAST_ACTION_DATE DATETIME
PROJECT_FREEZE_FLAG CHAR(1)
TRACK NUMERIC(2,0)
EXPIRY_DATE DATE
PROJECT_ID (FK) VARCHAR(15)
TRANSFER_FLG CHAR(1)
UNIT_TYPE_CODE (FK) NUMERIC(2,0)
ORIGINATING_PARTY_CODE (FK) VARCHAR(3)
APPLICABLE_PERIOD_CODE (FK) NUMERIC(2,0)
ORIGINAL_PERIOD_CODE (FK) NUMERIC(2,0)
HOLDING_REGISTRY_CODE (FK) VARCHAR(3)
ACCOUNT_TYPE_CODE (FK) NUMERIC(3,0)
SUPP_UNIT_TYPE_CODE (FK) NUMERIC(2,0)
UNIT_STATUS_CODE (FK) NUMERIC(1,0)
LULUCF_CODE (FK) NUMERIC(3,0)
RECONCILIATION_STATUS_HISTORY
RECON_STATUS_ID NUMERIC(12,0)
RECON_ID (FK) VARCHAR(20)
RECON_LOG_DATETIME DATETIME
RECON_STATUS_CODE (FK) NUMERIC(2,0)
RECON_COMMENT VARCHAR(1000)
PEOPLE
PEOPLE_ID NUMERIC(16,0)
PREFIX VARCHAR(10)
FIRST_NAME VARCHAR(10)
MIDDLE_NAME VARCHAR(25)
LAST_NAME VARCHAR(65)
SUFFIX VARCHAR(10)
TITLE VARCHAR(160)
EMAIL VARCHAR(120)
PHONE_NUMBER_1 VARCHAR(16)
PHONE_NUMBER_2 VARCHAR(16)
FAX_NUMBER VARCHAR(16)
ACTIVE CHAR(1)
ADDRESS_1 VARCHAR(120)
ADDRESS_2 VARCHAR(120)
CITY VARCHAR(30)
REGION VARCHAR(30)
COUNTRY_CODE (FK) VARCHAR(3)
POSTAL_CODE VARCHAR(16)
COMMITMENT_PERIOD_CODE
PERIOD_CODE NUMERIC(2,0)
PERIOD_DESCRIPTION VARCHAR(60)
BEGIN_DATE DATE
END_DATE DATE
TRUEUP_END_DATE DATE

Figure B4: Transaction Process Submodel



TRANSACTION_NOTIFICATION

TRANS_NOTIFICATION_ID	NUMERIC(12,0)
NOTIFICATION_ID (FK)	NUMERIC(12,0)
TRANSACTION_ID (FK)	VARCHAR(20)
REGISTRY_CODE (FK)	VARCHAR(3)

RESPONSE_LOG

RESPONSE_LOG_ID	NUMERIC(12,0)
TRANSACTION_LOG_HISTORY_ID (FK)	NUMERIC(15,0)
RESPONSE_CODE (FK)	NUMERIC(5,0)
RECON_STATUS_ID (FK)	NUMERIC(12,0)

TRANSACTION_LOG_HISTORY

TRANSACTION_LOG_HISTORY_ID	NUMERIC(15,0)
TRANSACTION_STATUS_DATETIME	DATETIME
TRANSACTION_ID (FK)	VARCHAR(20)
TRANSACTION_STATUS_CODE (FK)	NUMERIC(3,0)

TRANSACTION_STATUS_CODE

TRANSACTION_STATUS_CODE	NUMERIC(3,0)
TRANSACTION_STATUS_DESCRIPTION	VARCHAR(60)

NOTIFICATION

NOTIFICATION_ID	NUMERIC(12,0)
PARENT_NOTIFICATION_ID	NUMERIC(12,0)
NOTIFICATION_DATE	DATETIME
NOTIFICATION_CONTENT	VARCHAR(2000)
TOTAL_UNITS	NUMERIC(12,0)
NOTIFICATION_TYPE_CODE (FK)	NUMERIC(3,0)
PROJECT_LOG_ID (FK)	NUMERIC(12,0)
NOTIFICATION_STATUS_CODE (FK)	NUMERIC(3,0)
UNIT_TYPE_CODE (FK)	NUMERIC(2,0)
PERIOD_CODE (FK)	NUMERIC(2,0)

TRANSACTION_LOG

TRANSACTION_ID	VARCHAR(20)
TRANSACTION_TYPE_CODE (FK)	NUMERIC(2,0)
SUPP_TRANSACTION_TYPE_CODE (FK)	NUMERIC(2,0)
TRANSACTION_DATE	DATETIME
ACQUIRING_REGISTRY_ACCOUNT	NUMERIC(15,0)
ACQUIRING_REGISTRY_CODE (FK)	VARCHAR(3)
ACQUIRING_ACCOUNT_TYPE (FK)	NUMERIC(3,0)
TRANSFERRING_REGISTRY_ACCOUNT	NUMERIC(15,0)
TRANSFERRING_REGISTRY_CODE (FK)	VARCHAR(3)
TRANSFERRING_ACCOUNT_TYPE (FK)	NUMERIC(3,0)

TRANSACTION_TYPE_CODE

TRANSACTION_TYPE_CODE	NUMERIC(2,0)
TRANSACTION_TYPE_DESCRIPTION	VARCHAR(60)

MESSAGE_LOG

MESSAGE_LOG_ID	NUMERIC(15,0)
RECON_ID (FK)	VARCHAR(20)
SOURCE (FK)	VARCHAR(3)
MESSAGE_DATE	DATETIME
FILE_NAME	VARCHAR(120)
MASTER_FILE_NAME	VARCHAR(120)
TRANSACTION_ID (FK)	VARCHAR(20)
WEB SERVICE	VARCHAR(120)

TRANSACTION_BLOCK

TRANSACTION_BLOCK_ID	NUMERIC(15,0)
ORIGINAL_PERIOD_CODE (FK)	NUMERIC(2,0)
TRANSACTION_ID (FK)	VARCHAR(20)
START_BLOCK	NUMERIC(15,0)
END_BLOCK	NUMERIC(15,0)
APPLICABLE_PERIOD_CODE (FK)	NUMERIC(2,0)
ORIGINATING_PARTY_CODE (FK)	VARCHAR(3)
PROJECT_ID	VARCHAR(15)
BLOCK_ROLE	VARCHAR(12)
EXPIRY_DATE	DATETIME
UNIT_TYPE_CODE (FK)	NUMERIC(2,0)
PROJECT_FREEZE_FLAG	CHAR(1)
SUPP_UNIT_TYPE_CODE (FK)	NUMERIC(2,0)
YEAR_IN_COMMITMENT_PERIOD	NUMERIC(4,0)
ACQUIRING_REGISTRY_ACCOUNT	NUMERIC(15,0)
ACQUIRING_ACCOUNT_TYPE_CODE (FK)	NUMERIC(3,0)
ACQUIRING_REGISTRY_CODE (FK)	VARCHAR(3)
TRANSFERRING_REGISTRY_ACCOUNT	NUMERIC(15,0)
TRANSFERRING_ACCOUNT_TYPE_CODE (FK)	NUMERIC(3,0)
TRANSFERRING_REGISTRY_CODE (FK)	VARCHAR(3)
INSTALLATION_ID	NUMERIC(15,0)
TRACK	NUMERIC(2,0)
LULUCF_CODE (FK)	NUMERIC(3,0)

REGISTRY

REGISTRY_CODE	VARCHAR(3)
REGISTRY_NAME	VARCHAR(120)
WEB_SERVICE_URL	VARCHAR(120)
WEB_SERVICE_PORT	NUMERIC(4,0)
TEST_WEB_SERVICE_URL	VARCHAR(120)
TEST_WEB_SERVICE_PORT	VARCHAR(12)

UNIT_BLOCK

BLOCK_ID	NUMERIC(15,0)
START_BLOCK	NUMERIC(15,0)
END_BLOCK	NUMERIC(15,0)
LAST_ACTION_DATE	DATETIME
PROJECT_FREEZE_FLAG	CHAR(1)
TRACK	NUMERIC(2,0)
EXPIRY_DATE	DATE
PROJECT_ID (FK)	VARCHAR(15)
TRANSFER_FLG	CHAR(1)
UNIT_TYPE_CODE (FK)	NUMERIC(2,0)
ORIGINATING_PARTY_CODE (FK)	VARCHAR(3)
APPLICABLE_PERIOD_CODE (FK)	NUMERIC(2,0)
ORIGINAL_PERIOD_CODE (FK)	NUMERIC(2,0)
HOLDING_REGISTRY_CODE (FK)	VARCHAR(3)
ACCOUNT_TYPE_CODE (FK)	NUMERIC(3,0)
SUPP_UNIT_TYPE_CODE (FK)	NUMERIC(2,0)
UNIT_STATUS_CODE (FK)	NUMERIC(1,0)
LULUCF_CODE (FK)	NUMERIC(3,0)

RESPONSE_CATALOG

RESPONSE_CODE	NUMERIC(5,0)
CRITICALITY	NUMERIC(2,0)
CHECK_LEVEL	VARCHAR(4)
RESPONSE_TEXT	VARCHAR(600)
ENABLED_FLAG	CHAR(1)
RESPONSE_VALUE	VARCHAR(12)
CHECK_NAME	VARCHAR(120)
CHECK_DESCRIPTION	VARCHAR(2000)
CHECK_CATALOG_CODE (FK)	NUMERIC(12,0)

TRANSACTION_BLOCK_HISTORY

TRANSACTION_BLOCK_HISTORY_ID	NUMERIC(15,0)
TRANSACTION_BLOCK_ID (FK)	NUMERIC(15,0)
TRANSACTION_BLOCK_DATETIME	DATETIME
RESPONSE_CODE (FK)	NUMERIC(5,0)

REPLACEMENT_UNIT_BLOCK

BLOCK_ID (FK)	NUMERIC(15,0)
REPLACEMENT_BLOCK_ID (FK)	NUMERIC(15,0)
REPLACEMENT_DATETIME	DATETIME

Figure B5: Reconciliation Submodel

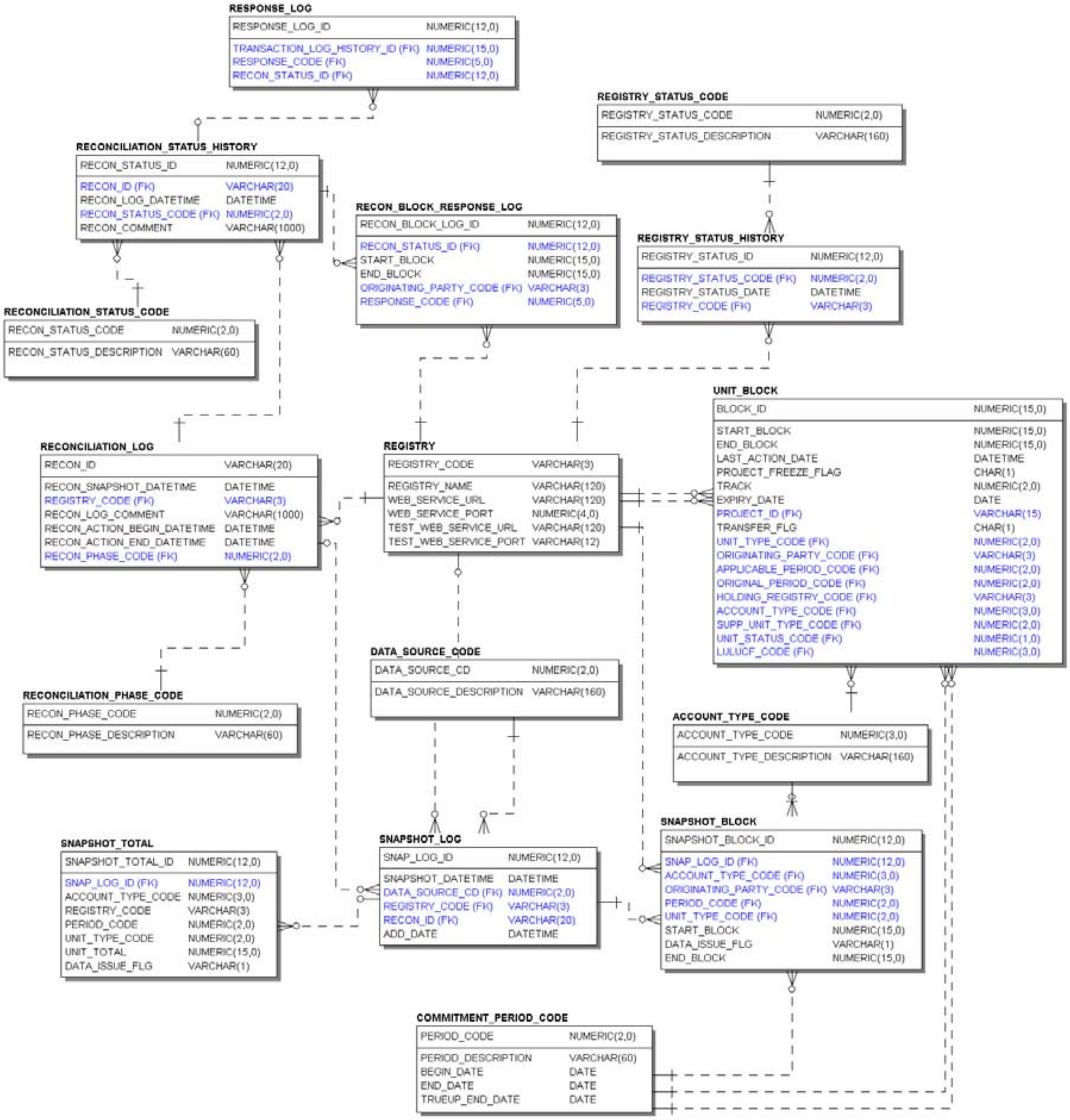
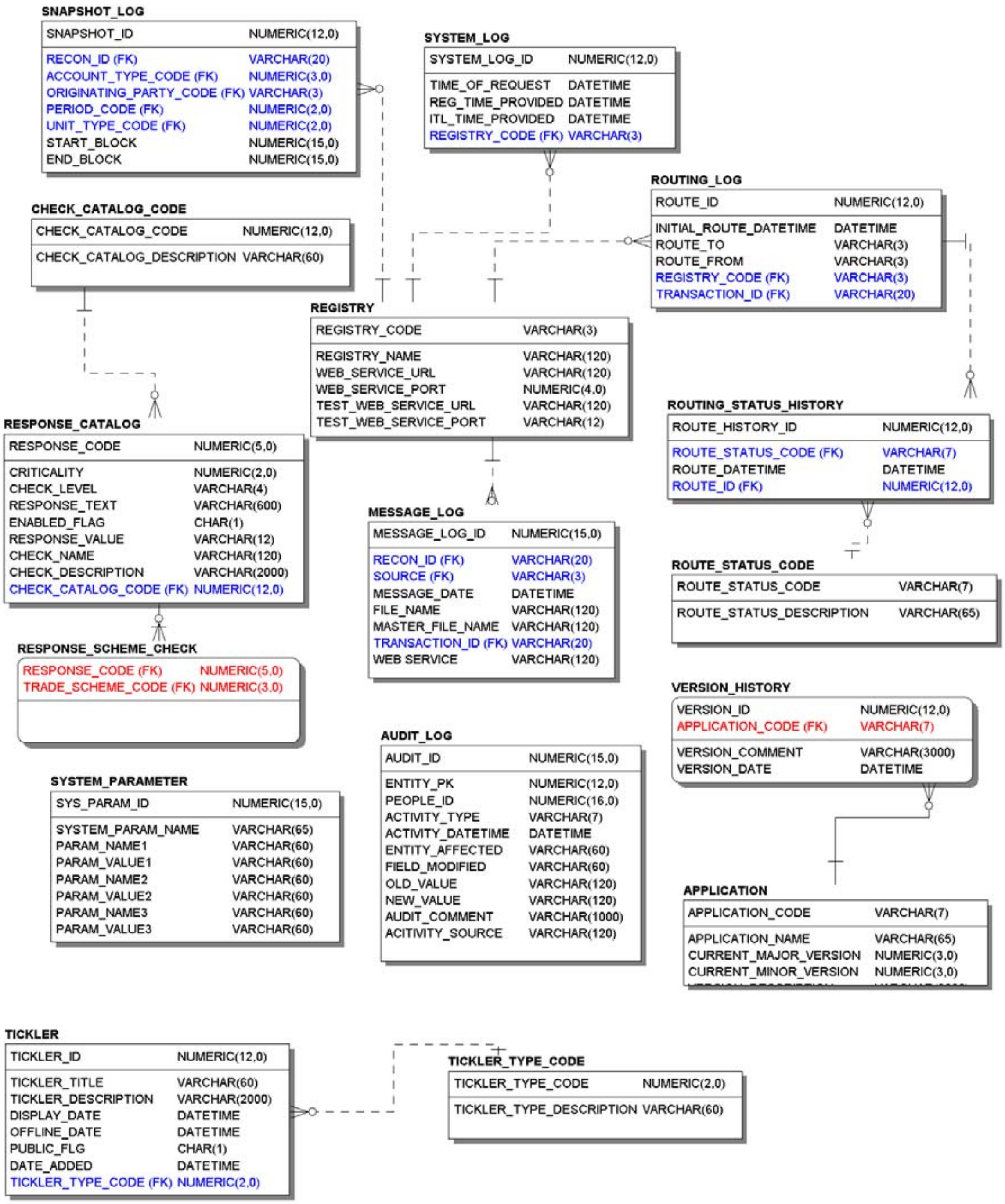

RESPONSE_LOG
RESPONSE_LOG_ID NUMERIC(12,0)
TRANSACTION_LOG_HISTORY_ID (FK) NUMERIC(15,0)
RESPONSE_CODE (FK) NUMERIC(5,0)
RECON_STATUS_ID (FK) NUMERIC(12,0)
REGISTRY_STATUS_CODE
REGISTRY_STATUS_CODE NUMERIC(2,0)
REGISTRY_STATUS_DESCRIPTION VARCHAR(160)
RECONCILIATION_STATUS_HISTORY
RECON_STATUS_ID NUMERIC(12,0)
RECON_ID (FK) VARCHAR(20)
RECON_LOG_DATETIME DATETIME
RECON_STATUS_CODE (FK) NUMERIC(2,0)
RECON_COMMENT VARCHAR(1000)
RECON_BLOCK_RESPONSE_LOG
RECON_BLOCK_LOG_ID NUMERIC(12,0)
RECON_STATUS_ID (FK) NUMERIC(12,0)
START_BLOCK NUMERIC(15,0)
END_BLOCK NUMERIC(15,0)
ORIGINATING_PARTY_CODE (FK) VARCHAR(3)
RESPONSE_CODE (FK) NUMERIC(5,0)
REGISTRY_STATUS_HISTORY
REGISTRY_STATUS_ID NUMERIC(12,0)
REGISTRY_STATUS_CODE (FK) NUMERIC(2,0)
REGISTRY_STATUS_DATE DATETIME
REGISTRY_CODE (FK) VARCHAR(3)
RECONCILIATION_STATUS_CODE
RECON_STATUS_CODE NUMERIC(2,0)
RECON_STATUS_DESCRIPTION VARCHAR(60)
UNIT_BLOCK
BLOCK_ID NUMERIC(15,0)
START_BLOCK NUMERIC(15,0)
END_BLOCK NUMERIC(15,0)
LAST_ACTION_DATE DATETIME
PROJECT_FREEZE_FLAG CHAR(1)
TRACK NUMERIC(2,0)
EXPIRY_DATE DATE
PROJECT_ID (FK) VARCHAR(15)
TRANSFER_FLG CHAR(1)
UNIT_TYPE_CODE (FK) NUMERIC(2,0)
ORIGINATING_PARTY_CODE (FK) VARCHAR(3)
APPLICABLE_PERIOD_CODE (FK) NUMERIC(2,0)
ORIGINAL_PERIOD_CODE (FK) NUMERIC(2,0)
HOLDING_REGISTRY_CODE (FK) VARCHAR(3)
ACCOUNT_TYPE_CODE (FK) NUMERIC(3,0)
SUPP_UNIT_TYPE_CODE (FK) NUMERIC(2,0)
UNIT_STATUS_CODE (FK) NUMERIC(1,0)
LULUCF_CODE (FK) NUMERIC(3,0)
RECONCILIATION_LOG
RECON_ID VARCHAR(20)
RECON_SNAPSHOT_DATETIME DATETIME
REGISTRY_CODE (FK) VARCHAR(3)
RECON_LOG_COMMENT VARCHAR(1000)
RECON_ACTION_BEGIN_DATETIME DATETIME
RECON_ACTION_END_DATETIME DATETIME
RECON_PHASE_CODE (FK) NUMERIC(2,0)
REGISTRY
REGISTRY_CODE VARCHAR(3)
REGISTRY_NAME VARCHAR(120)
WEB_SERVICE_URL VARCHAR(120)
WEB_SERVICE_PORT NUMERIC(4,0)
TEST_WEB_SERVICE_URL VARCHAR(120)
TEST_WEB_SERVICE_PORT VARCHAR(12)
DATA_SOURCE_CODE
DATA_SOURCE_CD NUMERIC(2,0)
DATA_SOURCE_DESCRIPTION VARCHAR(160)
RECONCILIATION_PHASE_CODE
RECON_PHASE_CODE NUMERIC(2,0)
RECON_PHASE_DESCRIPTION VARCHAR(60)
ACCOUNT_TYPE_CODE
ACCOUNT_TYPE_CODE NUMERIC(3,0)
ACCOUNT_TYPE_DESCRIPTION VARCHAR(160)
SNAPSHOT_TOTAL
SNAPSHOT_TOTAL_ID NUMERIC(12,0)
SNAP_LOG_ID (FK) NUMERIC(12,0)
ACCOUNT_TYPE_CODE NUMERIC(3,0)
REGISTRY_CODE VARCHAR(3)
PERIOD_CODE NUMERIC(2,0)
UNIT_TYPE_CODE NUMERIC(2,0)
UNIT_TOTAL NUMERIC(15,0)
DATA_ISSUE_FLG VARCHAR(1)
SNAPSHOT_LOG
SNAP_LOG_ID NUMERIC(12,0)
SNAPSHOT_DATETIME DATETIME
DATA_SOURCE_CD (FK) NUMERIC(2,0)
REGISTRY_CODE (FK) VARCHAR(3)
RECON_ID (FK) VARCHAR(20)
ADD_DATE DATETIME
SNAPSHOT_BLOCK
SNAPSHOT_BLOCK_ID NUMERIC(12,0)
SNAP_LOG_ID (FK) NUMERIC(12,0)
ACCOUNT_TYPE_CODE (FK) NUMERIC(3,0)
ORIGINATING_PARTY_CODE (FK) VARCHAR(3)
PERIOD_CODE (FK) NUMERIC(2,0)
UNIT_TYPE_CODE (FK) NUMERIC(2,0)
START_BLOCK NUMERIC(15,0)
DATA_ISSUE_FLG VARCHAR(1)
END_BLOCK NUMERIC(15,0)
COMMITMENT_PERIOD_CODE
PERIOD_CODE NUMERIC(2,0)
PERIOD_DESCRIPTION VARCHAR(60)
BEGIN_DATE DATE
END_DATE DATE
TRUEUP_END_DATE DATE

Figure B6: System Data Submodel



SNAPSHOT_LOG

SNAPSHOT_ID	NUMERIC(12,0)
RECON_ID (FK)	VARCHAR(20)
ACCOUNT_TYPE_CODE (FK)	NUMERIC(3,0)
ORIGINATING_PARTY_CODE (FK)	VARCHAR(3)
PERIOD_CODE (FK)	NUMERIC(2,0)
UNIT_TYPE_CODE (FK)	NUMERIC(2,0)
START_BLOCK	NUMERIC(15,0)
END_BLOCK	NUMERIC(15,0)

SYSTEM_LOG

SYSTEM_LOG_ID	NUMERIC(12,0)
TIME_OF_REQUEST	DATETIME
REG_TIME_PROVIDED	DATETIME
ITL_TIME_PROVIDED	DATETIME
REGISTRY_CODE (FK)	VARCHAR(3)

ROUTING_LOG

ROUTE_ID	NUMERIC(12,0)
INITIAL_ROUTE_DATETIME	DATETIME
ROUTE_TO	VARCHAR(3)
ROUTE_FROM	VARCHAR(3)
REGISTRY_CODE (FK)	VARCHAR(3)
TRANSACTION_ID (FK)	VARCHAR(20)

CHECK_CATALOG_CODE

CHECK_CATALOG_CODE	NUMERIC(12,0)
CHECK_CATALOG_DESCRIPTION	VARCHAR(60)

REGISTRY

REGISTRY_CODE	VARCHAR(3)
REGISTRY_NAME	VARCHAR(120)
WEB_SERVICE_URL	VARCHAR(120)
WEB_SERVICE_PORT	NUMERIC(4,0)
TEST_WEB_SERVICE_URL	VARCHAR(120)
TEST_WEB_SERVICE_PORT	VARCHAR(12)

RESPONSE_CATALOG

RESPONSE_CODE	NUMERIC(5,0)
CRITICALITY	NUMERIC(2,0)
CHECK_LEVEL	VARCHAR(4)
RESPONSE_TEXT	VARCHAR(600)
ENABLED_FLAG	CHAR(1)
RESPONSE_VALUE	VARCHAR(12)
CHECK_NAME	VARCHAR(120)
CHECK_DESCRIPTION	VARCHAR(2000)
CHECK_CATALOG_CODE (FK)	NUMERIC(12,0)

ROUTING_STATUS_HISTORY

ROUTE_HISTORY_ID	NUMERIC(12,0)
ROUTE_STATUS_CODE (FK)	VARCHAR(7)
ROUTE_DATETIME	DATETIME
ROUTE_ID (FK)	NUMERIC(12,0)

MESSAGE_LOG

MESSAGE_LOG_ID	NUMERIC(15,0)
RECON_ID (FK)	VARCHAR(20)
SOURCE (FK)	VARCHAR(3)
MESSAGE_DATE	DATETIME
FILE_NAME	VARCHAR(120)
MASTER_FILE_NAME	VARCHAR(120)
TRANSACTION_ID (FK)	VARCHAR(20)
WEB SERVICE	VARCHAR(120)

ROUTE_STATUS_CODE

ROUTE_STATUS_CODE	VARCHAR(7)
ROUTE_STATUS_DESCRIPTION	VARCHAR(65)

RESPONSE_SCHEME_CHECK

RESPONSE_CODE (FK)	NUMERIC(5,0)
TRADE_SCHEME_CODE (FK)	NUMERIC(3,0)

VERSION_HISTORY

VERSION_ID	NUMERIC(12,0)
APPLICATION_CODE (FK)	VARCHAR(7)
VERSION_COMMENT	VARCHAR(3000)
VERSION_DATE	DATETIME

AUDIT_LOG

AUDIT_ID	NUMERIC(15,0)
ENTITY_PK	NUMERIC(12,0)
PEOPLE_ID	NUMERIC(16,0)
ACTIVITY_TYPE	VARCHAR(7)
ACTIVITY_DATETIME	DATETIME
ENTITY_AFFECTED	VARCHAR(60)
FIELD_MODIFIED	VARCHAR(60)
OLD_VALUE	VARCHAR(120)
NEW_VALUE	VARCHAR(120)
AUDIT_COMMENT	VARCHAR(1000)
ACITIVITY_SOURCE	VARCHAR(120)

SYSTEM_PARAMETER

SYS_PARAM_ID	NUMERIC(15,0)
SYSTEM_PARAM_NAME	VARCHAR(65)
PARAM_NAME1	VARCHAR(60)
PARAM_VALUE1	VARCHAR(60)
PARAM_NAME2	VARCHAR(60)
PARAM_VALUE2	VARCHAR(60)
PARAM_NAME3	VARCHAR(60)
PARAM_VALUE3	VARCHAR(60)

APPLICATION

APPLICATION_CODE	VARCHAR(7)
APPLICATION_NAME	VARCHAR(65)
CURRENT_MAJOR_VERSION	NUMERIC(3,0)
CURRENT_MINOR_VERSION	NUMERIC(3,0)

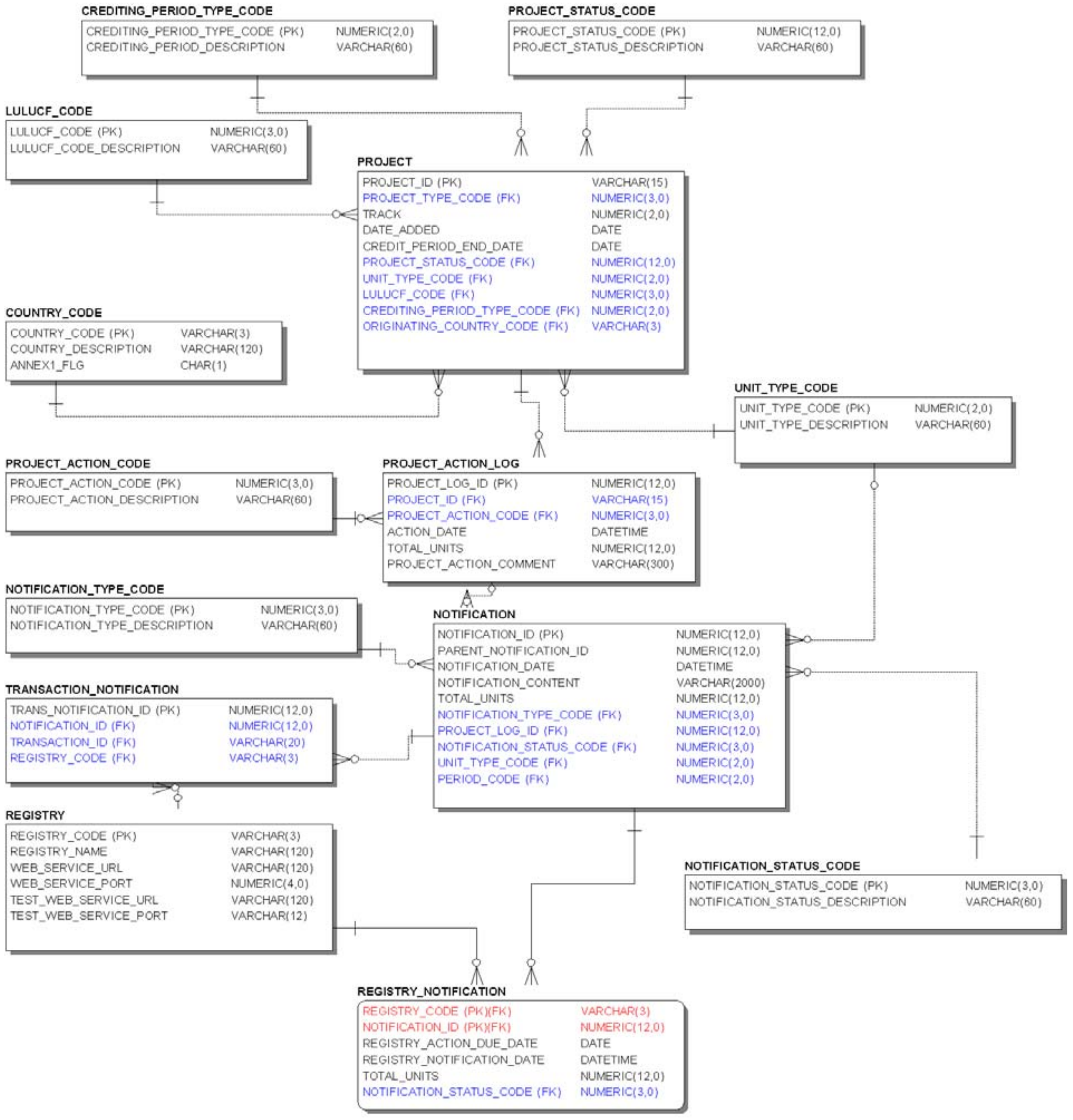
TICKLER

TICKLER_ID	NUMERIC(12,0)
TICKLER_TITLE	VARCHAR(60)
TICKLER_DESCRIPTION	VARCHAR(2000)
DISPLAY_DATE	DATETIME
OFFLINE_DATE	DATETIME
PUBLIC_FLG	CHAR(1)
DATE_ADDED	DATETIME
TICKLER_TYPE_CODE (FK)	NUMERIC(2,0)

TICKLER_TYPE_CODE

TICKLER_TYPE_CODE	NUMERIC(2,0)
TICKLER_TYPE_DESCRIPTION	VARCHAR(60)

Figure B7: Projects and Notifications Submodel


CREDITING_PERIOD_TYPE_CODE
CREDITING_PERIOD_TYPE_CODE (PK) NUMERIC(2,0)
CREDITING_PERIOD_DESCRIPTION VARCHAR(60)
PROJECT_STATUS_CODE
PROJECT_STATUS_CODE (PK) NUMERIC(12,0)
PROJECT_STATUS_DESCRIPTION VARCHAR(60)
LULUCF_CODE
LULUCF_CODE (PK) NUMERIC(3,0)
LULUCF_CODE_DESCRIPTION VARCHAR(60)
PROJECT
PROJECT_ID (PK) VARCHAR(15)
PROJECT_TYPE_CODE (FK) NUMERIC(3,0)
TRACK NUMERIC(2,0)
DATE_ADDED DATE
CREDIT_PERIOD_END_DATE DATE
PROJECT_STATUS_CODE (FK) NUMERIC(12,0)
UNIT_TYPE_CODE (FK) NUMERIC(2,0)
LULUCF_CODE (FK) NUMERIC(3,0)
CREDITING_PERIOD_TYPE_CODE (FK) NUMERIC(2,0)
ORIGINATING_COUNTRY_CODE (FK) VARCHAR(3)
COUNTRY_CODE
COUNTRY_CODE (PK) VARCHAR(3)
COUNTRY_DESCRIPTION VARCHAR(120)
ANNEX1_FLG CHAR(1)
UNIT_TYPE_CODE
UNIT_TYPE_CODE (PK) NUMERIC(2,0)
UNIT_TYPE_DESCRIPTION VARCHAR(60)
PROJECT_ACTION_CODE
PROJECT_ACTION_CODE (PK) NUMERIC(3,0)
PROJECT_ACTION_DESCRIPTION VARCHAR(60)
PROJECT_ACTION_LOG
PROJECT_LOG_ID (PK) NUMERIC(12,0)
PROJECT_ID (FK) VARCHAR(15)
PROJECT_ACTION_CODE (FK) NUMERIC(3,0)
ACTION_DATE DATETIME
TOTAL_UNITS NUMERIC(12,0)
PROJECT_ACTION_COMMENT VARCHAR(300)
NOTIFICATION_TYPE_CODE
NOTIFICATION_TYPE_CODE (PK) NUMERIC(3,0)
NOTIFICATION_TYPE_DESCRIPTION VARCHAR(60)
NOTIFICATION
NOTIFICATION_ID (PK) NUMERIC(12,0)
PARENT_NOTIFICATION_ID NUMERIC(12,0)
NOTIFICATION_DATE DATETIME
NOTIFICATION_CONTENT VARCHAR(2000)
TOTAL_UNITS NUMERIC(12,0)
NOTIFICATION_TYPE_CODE (FK) NUMERIC(3,0)
PROJECT_LOG_ID (FK) NUMERIC(12,0)
NOTIFICATION_STATUS_CODE (FK) NUMERIC(3,0)
UNIT_TYPE_CODE (FK) NUMERIC(2,0)
PERIOD_CODE (FK) NUMERIC(2,0)
TRANSACTION_NOTIFICATION
TRANS_NOTIFICATION_ID (PK) NUMERIC(12,0)
NOTIFICATION_ID (FK) NUMERIC(12,0)
TRANSACTION_ID (FK) VARCHAR(20)
REGISTRY_CODE (FK) VARCHAR(3)
REGISTRY
REGISTRY_CODE (PK) VARCHAR(3)
REGISTRY_NAME VARCHAR(120)
WEB_SERVICE_URL VARCHAR(120)
WEB_SERVICE_PORT NUMERIC(4,0)
TEST_WEB_SERVICE_URL VARCHAR(120)
TEST_WEB_SERVICE_PORT VARCHAR(12)
NOTIFICATION_STATUS_CODE
NOTIFICATION_STATUS_CODE (PK) NUMERIC(3,0)
NOTIFICATION_STATUS_DESCRIPTION VARCHAR(60)
REGISTRY_NOTIFICATION
REGISTRY_CODE (PK)(FK) VARCHAR(3)
NOTIFICATION_ID (PK)(FK) NUMERIC(12,0)
REGISTRY_ACTION_DUE_DATE DATE
REGISTRY_NOTIFICATION_DATE DATETIME
TOTAL_UNITS NUMERIC(12,0)
NOTIFICATION_STATUS_CODE (FK) NUMERIC(3,0)