ELISTdb.8100.Final.SOL7.DBDD

Defense Information Infrastructure (DII)
Common Operating Environment (COE)

Database Design Document (DBDD)
for the
Enhanced Logistics Intratheater Support Tool (ELIST)
Database Segment Version 8.1.0.0

for Solaris 7

26 February 2002

Prepared for:

Military Traffic Management Command
Transportation Engineering Agency
720 Thimble Shoals Boulevard
Newport News, VA 23606

Prepared by:

Argonne National Laboratory
Decision and Information Sciences Division
9700 South Cass Avenue
Argonne, IL 60439

Table of Contents

List of Tables

List of Figures

This page left intentionally blank.

1. Scope

This document is the *Database Design Document for the Enhanced Logistics Intratheater Support Tool (ELIST) Database Segment*. It describes the physical database design used by the ELIST mission application.

1.1 Identification

The ELIST Database Design Document provides the basis for data storage and retrieval in support of the ELIST Software Segment. The database manages the modeled data for each logistics scenario of the ELIST mission application.

Table 1 identifies all the segments of the ELIST mission application. In the table, each segment is given a number by which it may be referenced in this document. The table also gives the name, the segment type (and, if a data segment, the segment scope), the current version number, and the directory name assigned to each segment.

Table 1. Segments of the ELIST Mission Application

Segment Number	Segment Name	Segment Type / Scope	Version Number	Directory Name
1	ELIST Global Data Segment	Data / Global	8.1.0.0	`ELISTglob`
2	ELIST Database Instance Segment	Data / Segment	8.1.0.0	`ELISTdbinst`
3	ELIST Database Fill Segment	Data / Local	8.1.0.0	`ELISTdbfill`
4	ELIST Database Segment	Database	8.1.0.0	`ELISTdb`
5	ELIST Database Utility Segment	Software	8.1.0.0	`ELISTdbutil`
6	ELIST Software Segment	Software	8.1.0.0	`ELISTexec`
7	ELIST Reference Data Segment	Data / Local	8.1.0.0	`ELISTrefdata`

All seven segments have the following identification properties in common:

Segment Prefix[1]**:** ELIST

Platform(s)[2]**:** Sun/Solaris 7

DII COE Versions: 4.2.0.0P4 or later

All seven of the ELIST segments must be installed before you can use the ELIST mission application.[3]

Refer to the *Introduction to the Enhanced Logistics Intratheater Support Tool (ELIST) Mission Application and its Segments: Global Data Segment, Database Instance Segment, Database Fill Segment, Database Segment, Database Utility Segment, Software Segment, and Reference Data Segment* for the following:

[1] Note carefully that all segments have the same prefix. This is not typical of multisegment DII COE mission applications.
[2] Implementation of the ELIST segments for PC/Windows NT 4.0 is lagging behind and will follow shortly. This documentation covers only the Sun/Solaris 7 platform but will be supplemented or replaced when an implementation becomes available for NT.
[3] To save space, however, the ELIST Database Fill Segment can be removed after successfully installing the ELIST Database Segment.

- an overview of the mission application and all of its segments in the context of the application;
- the definitions of key concepts and terms used throughout the ELIST documentation;
- a complete list of the available ELIST documentation.
- a brief history of ELIST; and
- basic information pertinent to the client/server configuration and installation of the ELIST segments.

1.2 Database Overview

The ELIST database provides the physical storage structure and schema for tables supporting the ELIST mission application. The database is composed of three different series of tables. The first series supports ELIST itself. The second and third series of tables support the ETPFDD Editor and data manipulation. The third series is an extracted subset of the Transportability Analysis Reports Generator system (TARGET) database tables that support ETEdit. The ELIST database manages the storage, retrieval, and updating of the ELIST modeling database on a scenario-by-scenario basis. The ELIST database is accessed via use of the JDBC Java classes defined in the ELIST software application.

2. Referenced Documents

The following other documents are referenced in this document.

2.1 Government Documents

2.1.1 DII COE ELIST Documents

Introduction to the Enhanced Logistics Intratheater Support Tool (ELIST) Mission Application and its Segments: Global Data Segment Version 8.1.0.0, Database Instance Segment Version 8.1.0.0, Database Fill Segment Version 8.1.0.0, Database Segment Version 8.1.0.0, Database Utility Segment Version 8.1.0.0, Software Segment Version 8.1.0.0, and Reference Data Segment Version 8.1.0.0 for Solaris 7, ELIST.8100.Final.SOL7.Intro, Argonne National Laboratory, 26 February 2002

2.1.2 Other DII COE Documents

N/A.

2.1.3 Other ELIST Documents

N/A.

2.1.4 Other Government Documents

N/A.

2.2 Non-Government Documents

Oracle8i JDBC Developers Guide and Reference, Release 2 (8.1.6)

Oracle8i Utilities Release 2 (8.1.6)

This page left intentionally blank.

3. Database Behavioral Design

The ELIST database provides the storage and retrieval base for the data supporting logistics modeling via the ELIST application. The database acts as a data repository from which data can be retrieved for modeling simulations and in which the results of the simulations are stored. All data manipulation occurs within the ELIST application itself. The ELIST database provides basic enforcement of data uniqueness *via* an index key structure, but all other data integrity is handled by the ELIST application.

By definition, the platform on which the ELIST database is created is called a *database server*, and the platform on which the code that uses the ELIST database resides is called an *application client*. The application client can be the same machine as the database server, but it is more common for the two to be different machines. The configuration that applies at a given site is chosen during installation. In either case, all the user sees is the data retrieved from the database, not the structure of the database itself nor its relation to the rest of the application.

Data can be imported into the ELIST database using Oracle Import functionality. This is used to load the TPFDD data files into the database for simulations to be run against. Scenarios can also be exported using the Oracle Export function so they can be loaded into other ELIST applications.

The database design has three series of tables denoting either a particular portion of application functionality or data source. These are identified and detailed in Section 4.

The access privileges are controlled through defined roles that are assigned to the users. The ELIST_USER and ETPFDD_USER roles define the type of access allowed by the individual user.

This page intentionally left blank.

4. Database Design Details

The ELIST database is implemented in a relational database structure for use in a relational database management system (RDBMS). The ELIST database physical design has three logical series of tables. The first series are the ELIST tables. ELIST tables contain the infrastructure and resources available for the deployment analysis. The second series are the ETPFDD tables. These tables are used by the ETPFDD Editor (ETEdit). ETEdit is used to expand the basic TPFDD data into a more detailed set for use in the deployment simulation. The last series of tables are the TARGET tables. The Military Traffic Management Command (MTMC) Transportation Engineering Agency (TEA) provides the TARGET tables. The TARGET tables are used to expand the level of detail of the cargo to be moved. There are no triggers used in the ELIST database.

The ELIST tables and their indexes are stored in two physical datastores: ELIST_DATA and ELIST_INDEX. The ETPFDD and TARGET tables and their indexes are stored in two additional datastores: ETPFDD_DATA and ETPFDD_INDEX. These datastores are under individual DBO control of ELIST and ETPFDD DBOs. The initial storage space requirements for each are shown in Table 2.

Table 2. Datastores for ELIST Mission Application

Datastore Name	Function	Size (MB)
ELIST_DATA	Data	1800
ELIST_INDEX	Index	700
ETPFDD_DATA	Data	1800
ETPFDD_INDEX	Index	700

4.1 Physical Design of the ELIST Tables

The following provides the ELIST data tables and the data elements that comprise them.

```
Table name:         ARRIVING_ASSETS
Table Description: Table for finding all arriving assets in a TPFDD
Dependent on:       TUCHA_UTC
Data Source:        ELIST
Static vs Dynamic: Static

 Col                   Data
 Num Column Name       Type   Wdt N Column Description          Range of Values
---- ---------------- ---- ----- - -------------------------- -----------------
   1 UTC               VARC     5 N Unit Type Code to match on  Valid on
                                                                TUCHA_UTC.UTC

   2 NAME              VARC    60 N Name of unit                Any alpha/numeric

   3 ST                NUMB       N Typical weight (short tons) Integer >= 0
                                    of UTC
```

Table name: ARRIVING_ASSET_MATCHING
Table Description: Table for finding all arriving assets in a TPFDD
Dependent on: ARRIVING_ASSETS, VEHICLE_AIRCRAFT, VEHICLE_MATCHING, VEHICLE_RAILCAR, VEHICLE_SHIP, VEHICLE_TRACTOR, VEHICLE_TRAILER, VEHICLE_TRUCK
Data Source: ELIST
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	UTC	VARC	5	N	Unit Type Code to match on	Valid on ARRIVING_ASSETS.UTC
2	VEHICLE_TYPE	VARC	61	N	Type of vehicle	Valid vehicle type from VEHICLE_AIRCRAFT, VEHICLE_MATCHING, VEHICLE_RAILCAR, VEHICLE_SHIP, VEHICLE_TRACTOR, VEHICLE_TRAILER, or VEHICLE_TRUCK tables
3	TYPE	VARC	40	N	Type of vehicle	Road, Rail, Water, Air, Rotary Wing
4	NUM_IN_UTC	NUMB	5	N	Number of vehicles (of this type) found in UTC	Integer > 0
5	NUM_FOR_THEATER	NUMB	5	N	Number of vehicles (of this type) generally allocated to theater	Integer >= 0

Table name: ARRIVING_ENABLERS
Table Description: Table for finding all arriving enablers in a TPFDD.
Dependent on: TUCHA_UTC
Data Source: ELIST
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	UTC	VARC	5	N	Unit Type Code to match on.	Valid on TUCHA_UTC.UTC
2	NAME	VARC	60	N	Name of unit.	Any Alpha/numeric
3	ST	NUMB		N	Typical weight of UTC if not Level4/6 data for RLN.	Integer >= 0

Table name: ARRIVING_ENABLER_MATCHING
Table Description: Table for finding all arriving enablers in a TPFDD.
Dependent on: ARRIVING_ENABLERS
Data Source: ELIST
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	UTC	VARC	5	N	Unit Type Code to match on.	Valid on ARRIVING_ENABLERS .UTC
2	ATTRIBUTE	VARC	30	N	Network attribute to be changed. Identifies what attribute in the JAVA class is to be changed	Alpha/numeric from JAVA class
3	CLSNETOBJ	VARC	40	Y	Network object this is applied to as defined in the JAVA class	Alpha/Numeric from JAVA class.
4	VALUE	NUMB		Y	Amount object is to be changed.	Float

Table name: ASSET_POOL
Table Description: Pool of Assets for serving nodes
Dependent on: SCENARIO
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of scenario to match on	Valid on SCENARIO.SCENARIO_NUM
2	POOL_NUM	NUMB		N	Number of asset pool	Integer >= 1
3	NAME	VARC	40	Y	Name of the asset pool	Any alpha/numeric
4	HOME_NODE	VARC	40	Y	Name of the home node	Any alpha/numeric
5	DISPLAY_COLOR	VARC	20	Y	Color pool is to be displayed in	Any RGB or JAVA defined color
6	TYPE	NUMB	1	Y	Type of Pool (0-Direct Delivery, 1-LineHaul Tractor, 2-LineHaul Trailer)	Integer: 0, 1, or 2

Table name: ASSET_POOL_LOCATION
Table Description: Locations a pool can serve
Dependent on: ASSET_POOL
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of scenario to match on	Valid on SCENARIO.SCENARIO_NUM
2	POOL_NUM	NUMB		N	Number of the asset pool to match on	Valid on ASSET_POOL.POOL_NUM
3	NODE_NAME	VARC	40	N	Name of node pool can serve	Any alpha/numeric

Table name: ASSET_POOL_VEHICLE
Table Description: Vehicles assigned to an asset pool
Dependent on: ASSET_POOL
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of scenario to match on	Valid on SCENARIO.SCENARIO_NUM
2	POOL_NUM	NUMB		N	Number of the asset pool to match on	Valid on ASSET_POOL.POOL_NUM
3	ASSET_TYPE	VARC	40	N	Asset Type of vehicles	Valid on COMMONDITY_ASSET_TYPE.ASSET_TYPE
4	VEHICLE_TYPE	VARC	61	N	Vehicle Type of vehicles	Valid on COMMIDITY_ASSET_VEHICLE.VEHILCE_TYPE
5	NUM_VEHICLES	NUMB		Y	Number of vehicles assigned to the pool	Integer >= 0
6	FROMDAY	NUMB		Y	Day vehicles are available from (-999 means always available)	Integer: -999 or from -100 to 999
7	TODAY	NUMB		Y	Day vehicles are available to (-999 means always available)	Integer: -999 or from -100 to 999
8	PERCENT_AVAIL	NUMB		Y	Percent of vehicles available at any given time	Integer from 0 to 100

Table name: MAP_COORDINATE
Table Description: Map State coordinate values
Dependent on: MAP_STATE
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	MAP_STATE_NUM	NUMB	5	N	Map State Number to match on.	Valid on MAP_STATE.MAP_STATE_NUM
2	TOPLEFTX	NUMB	12	Y	Top left X corner coordinate (longitude decimal degrees)	FLOAT: -180.000 to 180.000
3	TOPLEFTY	NUMB	12	Y	Top left Y corner coordinate (latitude decimal degrees)	FLOAT: -90.000 to 90.000
4	BOTTOMRIGHTX	NUMB	12	Y	Bottom right X corner coordinate (longitude decimal degrees)	FLOAT: -180.000 to 180.000
5	BOTTOMRIGHTY	NUMB	12	Y	Bottom right Y corner coordinate (latitude decimal degrees)	FLOAT: -90.000 to 90.000
6	CMX	NUMB	12	Y	Central Meridian X coordinate (longitude decimal degrees)	FLOAT: -180.000 to 180.000
7	CMY	NUMB	12	Y	Central Meridian Y coordinate (latitude decimal degrees)	FLOAT: -90.000 to 90.000

Table name: MAP_STATE
Table Description: Saved state of a map
Dependent on: FOLDER
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	FOLDER_NUM	NUMB	3	N	Folder number of this map state to match on	Valid on FOLDER.FOLDER_NUM
2	MAP_STATE_NUM	NUMB	5	N	Unique number for this map state	Integer >= 1
3	NAME	VARC	30	Y	Name of map state to appear in user interface	Any alpha/numeric
4	COORDUNITS	NUMB	3	Y	Coordinate projection unit type: 1 = Mercator, 2 = Equal latitude longitude	Integer: 1 or 2

Table name: MAP_STATE_COLOR
Table Description: Colors for WVS states
Dependent on: MAP_STATE_SOURCE
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SOURCE_DATA_ID	NUMB	5	N	Unique number for the source of the data	Integer >= 1
2	FEATURENAME	VARC	40	N	Name of the country or state	Alpha/Numeric FIPS code for country/state
3	FEATURECOLOR	VARC	20	Y	Color of the data	Any RGB or JAVA defined colors

Table name: MAP_STATE_OVERLAY
Table Description: Map State overlay values
Dependent on: MAP_STATE_COLOR
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	MAP_STATE_NUM	NUMB	5	N	Map State Number	Integer >= 1
2	NAME	VARC	40	Y	Name of Overlay	Any alpha/numeric
3	VISIBILITY	NUMB	1	Y	Is this overlay visible	Integer 0 or 1
4	OVERLAY_ORDER	NUMB	3	N	Order overlay is displayed	Integer >= 0

Table name: MAP_STATE_SOURCE
Table Description: Source of a saved map state
Dependent on: MAP_STATE
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	MAP_STATE_NUM	NUMB	5	N	Unique number for this map state to match on	Valid on MAP_STATE.MAP_STATE_NUM
2	SOURCE_DATA_ID	NUMB	5	N	Unique number (across all map states) for the source of the data	Integer >= 1
3	NAME	VARC	40	N	Name of the map source	Any alpha/numeric
4	VISIBILITY	NUMB	1	N	Is this source displayed (0 = False, 1 = True)	Integer: 0 or 1
5	SOURCE_ORDER	NUMB	3	N	Order source is displayed	Integer >= 1
6	TRANSPARENCY	NUMB	3	Y	Transparency of the data (0-100%)	Integer >= 0 and <= 100

Table name: NETWORK
Table Description: Networks loaded in ELIST
Dependent on: FOLDER
Data Source: ELIST
Static vs Dynamic: Semi-static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	FOLDER_NUM	NUMB		N	Number of folder for table lookups	Valid on FOLDER.FOLDER_NUM
2	NETWORK_NUM	NUMB		N	Number of network for table lookups	Integer >= 1
3	NAME	VARC	40	N	Name of the network	Any Alpha/Numeric
4	CLASSIFICATION	VARC	40	N	Security classification of the network	Unclassified, Top Secret, Secret, Confidential
5	CREATEDATE	DATE	7	Y	Date network was created	Any valid date
6	MODDATE	DATE	7	Y	Date network was last modified	Any valid date
7	MULTIMODALLINECOVERAGE	VARC	250	Y	Path and file name of the TINet multimodal line (rail and road links) coverage used to build the ELIST network	Operating system valid path and filename
8	MULTIMODALLINEDATE	DATE	7	Y	Latest date of the folder for the TINet multimodal line coverage used to build the ELIST network	Any valid date
9	MULTIMODALPOINTCOVERAGE	VARC	250	Y	Path and file name of the TINet multimodal point (bridges and tunnels) coverage used to build the ELIST network	Operating system valid path and filename.
10	MULTIMODALPOINTDATE	DATE	7	Y	Latest date of the folder for the TINet multimodal point coverage used to build the ELIST network	Any valid date
11	CURRENT_USER	VARC	40	Y	Oracle id of user with this data set loaded in memory.	Alpha/numeric name from the Oracle login userid
12	GEOLOC_NUM	NUMB		Y	Number of the GEOLOC set	Valid on GEOLOC.GEOLOC_NUM

Table name: NETWORK_AIRPORT_PARKING
Table Description: Airport Parking Areas in ELIST networks
Dependent on: NETWORK, NETWORK_NODE, NETWORK_SUBCLASS
Data Source: ELIST
Static vs Dynamic: Semi-static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NETWORK_NUM	NUMB	3	N	Number of network for table lookups	Valid on NETWORK_NODE.NETWORK_NUM
2	PARKING_NUM	NUMB	6	N	Number of parking area for table lookups	Integer >= 1
3	NAME	VARC	60	N	Name of parking area	Any alpha/numeric
4	NODEIN_NUM	NUMB	6	N	Node number of the airport this parking area is in	Valid on NETWORK_NODE.NODE_NUM
5	CLASSNAME	VARC	40	N	Name of class of parking area to match on	Valid on NETWORK_SUBCLASS.SUBCLASSNAME

Table name: NETWORK_ATTRIBUTE_DEFAULT
Table Description: Default value for parent class of each attribute in ELIST net
Dependent on: NETWORK_ATTRIBUTE_NAME
Data Source: ELIST
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ATTRIBUTE_NUM	NUMB		N	Attribute number for table lookups	Valid on NETWORK_ATTRIBUTE_NAME.ATTRIBUTE_NAME
2	PARENT_NAME	VARC	40	N	Name of parent class to define this attribute	Any Alpha/numeric
3	VALUE	VARC	30	Y	Value of attribute	Any Alpha/numeric
4	UNITS	VARC	15	Y	Units of attribute	Any valid unit of measure as defined in ELIST

Table name: NETWORK_ATTRIBUTE_NAME
Table Description: Name of each attribute in ELIST networks
Dependent on: N/A
Data Source: ELIST
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ATTRIBUTE_NUM	NUMB		N	Attribute number for table lookups	Integer >= 1
2	NAME	VARC	20	N	Name of attribute	Any alpha/numeric
3	LONG_NAME	VARC	40	Y	Name of attribute used in interface	Any alpha/numeric
4	DESCRIPTION	VARC	200	Y	Description of attribute used in tool tips	Any alpha/numeric
5	TYPE	VARC	20	N	Data Type of attribute	FLOAT, INT, STRING
6	UNIT_TYPE	VARC	20	Y	Type of unit of attribute	AREA, CARGORATE, COLOR, CONTAINERRATE, COORD, FUELRATE, INT, INTERSECTIONTYPE, LENGTH, LIFTSPERCONTAINER, LINESTYLE, NODE, POL, RAILCARRATE, SPEED, STRING, VEHICLERATE, WEIGHT, YN
7	PANEL_NAME	VARC	40	N	Name of Panel attribute is edited in	Any alpha/numeric
8	MIN_VALUE	VARC	30	Y	If not null, it is the minimum value for this attribute.	For attributes that have a numeric value this is a string representation of the minimum value of the attribute or a null.
9	MAX_VALUE	VARC	30	Y	If not null, it is the maximum value for this attribute.	For attributes that have a numeric value this is a string representation of the maximum value of the attribute or a null.

Table name: NETWORK_BERTH
Table Description: Berths in ELIST networks
Dependent on: NETWORK_NODE, NETWORK_SUBCLASS
Data Source: ELIST
Static vs Dynamic: Semi-static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NETWORK_NUM	NUMB	3	N	Number of network for table lookups	Valid on NETWORK_NODE.NETWORK_NUM
2	BERTH_NUM	NUMB	6	N	Number of berth for table lookups	Integer >= 1
3	NAME	VARC	60	N	Name of berth	Any alpha/numeric
4	NODEIN_NUM	NUMB	6	N	Node number of the port this berth is in	Valid on NETWORK_NODE.NODE_NUM
5	CLASSNAME	VARC	40	N	Name of class of berth to match on	Valid on NETWORK_SUBCLASS.SUBCLASSNAME

Table name: NETWORK_CLASS_ATTRIBUTE
Table Description: Attribute values for classes in ELIST networks
Dependent on: NETWORK_SUBCLASS, NETWORK_ATTRIBUTE_NAME
Data Source: ELIST
Static vs Dynamic: Semi-static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NETWORK_NUM	NUMB	3	N	Number of network for table lookups	Valid on NETWORK_NODE.NETWORK_NUM
2	NAME	VARC	40	N	Name of class	Valid on NETWORK_SUBCLASS.SUBCLASSNAME
3	ATTRIBUTE_NUM	NUMB		N	Number of attribute	Valid on NETWORK_ATTRIBUTE_NAME.ATTRIBUTE_NUM
4	VALUE	VARC	30	Y	Value of attribute	Any alpha/numeric
5	UNITS	VARC	15	Y	Unit of measure of attribute	Any valid unit of measure as defined in ELIST
6	DATE_STAMP	DATE	7	Y	Date value was edited	Any valid date
7	USER_NAME	VARC	30	Y	Name of user who modified data	Alpha/numeric system name from login userid
8	SOURCE	VARC	30	Y	Source of data	Any alpha/numeric

Table name: NETWORK_INSTANCE_ATTRIBUTE
Table Description: Attribute information for instances in ELIST networks
Dependent on: NETWORK_NODE, NETWORK_CLASS_ATTRIBUTE, NETWORK_ATTRIBUTE_NAME
Data Source: ELIST
Static vs Dynamic: Semi-static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NETWORK_NUM	NUMB		N	Number of network for table lookups	Valid on NETWORK_NODE.NETWORK_NUM
2	INSTANCE_NUM	NUMB		N	Number of instance for table lookups	Integer >= 1
3	ATTRIBUTE_NUM	NUMB		N	Offset for attribute identification	Valid on NETWORK_ATTRIBUTE_NAME.ATTRIBUTE_NUM
4	VALUE	VARC	30	Y	Value of attribute	Any alpha/numeric
5	UNITS	VARC	15	Y	Unit of measure of attribute	Any valid unit of measure as defined in ELIST
6	DATE_STAMP	DATE	7	Y	Date attribute was modified	Any valid date
7	USER_NAME	VARC	30	Y	Name of user who modified data	Alpha/numeric system name from login userid
8	SOURCE	VARC	30	Y	Source where data originated	Any alpha/numeric

Table name: NETWORK_LINK
Table Description: Links in ELIST networks
Dependent on: NETWORK, NETWORK_NODE, NETWORK_SUBCLASS
Data Source: ELIST
Static vs Dynamic: Semi-static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NETWORK_NUM	NUMB	3	N	Number of network for table lookups	Valid on NETWORK.NETWORK_NUM
2	LINK_NUM	NUMB	6	N	Number of link for table lookups	Integer >= 1
3	NAME	VARC	60	N	Name of link	Any alpha/numeric
4	CONNECTS1_NUM	NUMB	6	N	Number of node endpoint of link	Valid on NETWORK_NODE.NODE_NUM
5	CONNECTS2_NUM	NUMB	6	N	Number of node endpoint of link	Valid on NETWORK_NODE.NODE_NUM
6	CLASSNAME	VARC	40	N	Name of class of the link	Valid on NETWORK_SUBCLASS.SUBCLASSNAME

Table name: NETWORK_LINK_FEATURE
Table Description: Features on links in ELIST networks
Dependent on: NETWORK, NETWORK_LINK, NETWORK_SUBCLASS
Data Source: ELIST
Static vs Dynamic: Semi-static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NETWORK_NUM	NUMB	3	N	Number of network for table lookups	Valid on NETWORK.NETWORK_NUM
2	LINKFEATURE_NUM	NUMB	6	N	Number of link feature for table lookups	Integer >= 1
3	NAME	VARC	60	N	Name of link feature	Any alpha/numeric
4	CLASSNAME	VARC	40	N	Name of class of link feature	Valid on NETWORK_SUBCLASS.SUBCLASSNAME
5	LINKIN_NUM	NUMB	6	N	Number of link, feature attached to	Valid on NETWORK_LINK.LINK_NUM

Table name: NETWORK_LINK_SHAPE
Table Description: Pairs of latitude and longitude coordinates to specify the shape of any given link.
Dependent on: NETWORK, NETWORK_LINK
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NETWORK_NUM	NUMB	3	N	Number of table for table lookups.	Valid on NETWORK.NETWORK_NUM
2	LINK_NUM	NUMB	6	N	Number of link that shapes are attached to.	Valid on NETWORK_LINK.LINK_NUM
3	NUM_POINTS	NUMB	6	N	Number of latitude - longitude pairs in shape blob.	Integer >= 0
4	SHAPE	BLOB	4000	Y	Pairs of latitude - longitude coordinates. Coordinates are in decimal degree format registered to WGS84 datum.	Pairs of floats - binary format

Table name: NETWORK_NODE
Table Description: Nodes in ELIST networks
Dependent on: NETWORK, NETWORK_SUBCLASS
Data Source: ELIST
Static vs Dynamic: Semi-static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NETWORK_NUM	NUMB	3	N	Number of network for table lookups	Valid on NETWORK.NETWORK_NUM
2	NODE_NUM	NUMB	6	N	Number of node for table lookups	Integer >= 1
3	NAME	VARC	60	N	Name of node	Any alpha/numeric
4	CLASSNAME	VARC	40	N	Name of class of node	Valid on NETWORK_SUBCLASS.SUBCLASSNAME

Table name: NETWORK_SUBCLASS
Table Description: Class hierarchy of ELIST network
Dependent on: NETWORK
Data Source: ELIST
Static vs Dynamic: Semi-static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NETWORK_NUM	NUMB	3	N	Number of network for table lookups	Valid on NETWORK.NETWORK.NUM
2	CLASSNAME	VARC	40	N	Class name	Any Alpha/numeric
3	SUBCLASSNAME	VARC	40	N	Name of subclass	Any Alpha/numeric

Table name: SCENARIO
Table Description: Defines a unique scenario and the data sets it depends on.
Dependent on: FOLDER, NETWORK, ETPFDD, ET_PROJECTION
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	FOLDER_NUM	NUMB		N	Number for folder	Valid on FOLDER.FOLDER_NUM
2	SCENARIO_NUM	NUMB		N	Number of scenario	Integer >= 1
3	NAME	VARC	40	N	Name of scenario	Any alpha/numeric
4	NETWORK_NUM	NUMB		N	Number of network scenario is associated with	Valid on NETWORK.NETWORK_NUM
5	ETPFDD_NUM	NUMB		N	Number of expanded tpfdd scenario is associated with	Valid on ETPFDD.ETPFDD_NUM
6	PROJECTION_NUM	NUMB		N	Number of projection scenario is associated with	Valid on ET_PROJECTION.PROJECTION_NUM
7	TPFDD_LEVEL	NUMB		N	Level of detail scenario is to be run at	Integer: 1,2,3,4,or 6
8	CLASSIFICATION	VARC	40	Y	Security classification of the scenario	Unclassified, Top Secret, Secret, Confidential
9	MOD_DATE	DATE	7	Y	Date scenario was last modified	Any valid date
10	CURRENT_USER	VARC	40	Y	Oracle id of user with this data set loaded in memory.	Alpha/numeric name from the Oracle login userid

Table name: SCENARIO_ALLOCATED_VEHICLE
Table Description: Defines the user specified allocation of military arriving assets in the scenario.
Dependent on: SCENARIO, ET_RLN, COMMODITY_ASSET_TYPE, COMMODITY_ASSET_VEHICLE, ASSET_POOL
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of scenario	Valid on SCENARIO.SCENARIO_NUM
2	ID_NUM	NUMB		N	Unique ID for this allocated asset.	Integer >= 1
3	RLN	VARC	7	N	RLN assets assigned to	Valid on ET_RLN.RLN
4	NUM_VEHICLES	NUMB		N	Number of vehicles assigned	Integer >= 0
5	VEHICLE_TYPE	VARC	61	N	Type of vehicle assigned	Valid on COMMODITY_ASSET_VEHICLE
6	ASSET_TYPE	VARC	40	N	Type of asset vehicle assigned to	Valid on COMMODITY_ASSET_TYPE.ASSET_TYPE
7	POOL	VARC	40	N	Name of asset pool assigned to	Valid on ASSET_POOL.POOL
8	USE	VARC	1	N	How vehicles are to be used: when Arrived, duration, window, tactical, none	W = Window, A = When arrived, T = Tactical, D = Duration
9	TIME1	NUMB		N	If USE = W then the first day of window (start time), If USE = D then days vehicles are to be used before assigned a tactical role, If USE = A or T then TIME1 is ignored	Integer: -100 to 999
10	TIME2	NUMB		N	If USE = W then last day of window (end time), If USE = A, D, or T then TIME2 is ignored	Integer: -100 to 999

Table name: SCENARIO_BERTH_USE
Table Description: User override of whether each berth is used
Dependent on: SCENARIO, NETWORK_NODE
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of current scenario	Valid on SCENARIO.SCENARIO_NUM
2	PORT_NAME	VARC	40	N	Name of seaport the berth is in	Valid on NETWORK_NODE.NAME
3	BERTH_NAME	VARC	40	N	Name of this berth	Any alpha/numeric
4	USE	NUMB	1	N	0 if berth not used, 1 if berth is used	Integer = 0 or 1
5	FROM_DAY	NUMB		N	Day this berth begins (or ends) use -999 means no constraint	Integer: -999 or -100 to 999
6	TO_DAY	NUMB		N	Day this berth ends (or ends) use -999 means no constraint	Integer: -999 or -100 to 999

Table name: SCENARIO_CRANE_RATES
Table Description: Crane rates for the current scenario
Dependent on: SCENARIO
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of scenario	Valid on SCENARIO.SCENARIO_NUM
2	GANTRY_CONTAINER_OFFLOAD	NUMB		Y	Containers/day gantry crane can load off ship	Integer >= 0
3	GANTRY_CONTAINER_ONLOAD	NUMB		Y	Containers/day gantry crane can load on ship	Integer >= 0
4	GANTRY_BB_OFFLOAD	NUMB		Y	Breakbulk st/day gantry crane can load off ship	Integer >= 0
5	GANTRY_BB_ONLOAD	NUMB		Y	Breakbulk st/day gantry crane can load on ship	Integer >= 0
6	CONTAINER_CONTAINER_OFFLOAD	NUMB		Y	Containers/day container crane can load off ship	Integer >= 0
7	CONTAINER_CONTAINER_ONLOAD	NUMB		Y	Containers/day container crane can load on ship	Integer >= 0
8	CONTAINER_BB_OFFLOAD	NUMB		Y	Breakbulk st/day container crane can load off ship	Integer >= 0
9	CONTAINER_BB_ONLOAD	NUMB		Y	Breakbulk st/day container crane can load on ship	Integer >= 0
10	MOBILE_CONTAINER_OFFLOAD	NUMB		Y	Containers/day mobile crane can load off ship	Integer >= 0
11	MOBILE_CONTAINER_ONLOAD	NUMB		Y	Containers/day mobile crane can load on ship	Integer >= 0
12	MOBILE_BB_OFFLOAD	NUMB		Y	Breakbulk st/day mobile crane can load off ship	Integer >= 0
13	MOBILE_BB_ONLOAD	NUMB		Y	Breakbulk st/day mobile crane can load on ship	Integer >= 0
14	TACS_CONTAINER_OFFLOAD	NUMB		Y	Containers/day TACS crane can load off ship	Integer >= 0
15	TACS_CONTAINER_ONLOAD	NUMB		Y	Containers/day TACS crane can load on ship	Integer >= 0
16	TACS_BB_OFFLOAD	NUMB		Y	Breakbulk st/day TACS crane can load off ship	Integer >= 0
17	TACS_BB_ONLOAD	NUMB		Y	Breakbulk st/day TACS crane can load on ship	Integer >= 0

Table name: SCENARIO_PARAMETER
Table Description: Current values for all scenario options
Dependent on: SCENARIO
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of current scenario	Valid on SCENARIO.SCENARIO_NUM
2	STORAGE_CONSTRAINS	NUMB		Y	0 if storage constraints scenario and 1 if storage does not constrain scenario	Integer: 0 or 1
3	STORAGE_UTILIZATION	NUMB		Y	Percent of storage area that can really be used	Integer from 0 to 100
4	DOCUMENTATION_CONSTRAINS	NUMB		Y	0 if documentation constraints scenario and 1 if documentation does not constrain scenario	Integer: 0 or 1
5	INTERVAL_PER_DAY	NUMB	4	Y	Integer number of intervals per day	Integer >= 1
6	MODE_SELECTION	NUMB	1	Y	0-specified in arrivals; 1-model selected; 2-specified then model selected	Integer: 0, 1, or 2
7	CONVOY_SERIAL_REQD	NUMB	1	Y	0=convoy moves on road without serials 1=convoy moves on road requires serials	Integer: 0 or 1
8	LINEHAUL_SERIAL_REQD	NUMB	1	Y	0=line haul moves without serials 1=line haul moves on road requires serials	Integer: 0 or 1
9	MIL_DIRECT_SERIAL_REQD	NUMB	1	Y	0=direct delivery moves on road without serials 1=direct delivery moves on road requires serials	Integer: 0 or 1
10	COM_DIRECT_SERIAL_REQD	NUMB	1	Y	0=military moves on road without serials 1=military moves on road requires serials	Integer: 0 or 1
11	USE_ALTERNATE_ROUTES	NUMB	1	Y	0=never use alternate route, 1=can use alt. route	Integer: 0 or 1
12	MIN_SERIAL_SIZE	NUMB	3	Y	Minimum number of vehicles for a serial	Integer >= 1
13	MAX_SERIAL_SIZE	NUMB	3	Y	Maximum number of vehicles for a serial	Integer >= 1

Table name: SCENARIO_PARAMETER (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
14	MAX_SERIAL_WAIT_TIME	NUMB		Y	Time to wait for MIN_SERIAL_SIZE	Float >= 0
15	MAX_SERIAL_WAIT_TIME_UNITS	VARC	40	Y	Time units of MAX_SERTIAL_WAIT_TIME value	Text: days, hours, minutes
16	SERIAL_RATE_OF_MARCH	NUMB		Y	Max rate of march of a serial	Float > 0
17	SERIAL_RATE_OF_MARCH_UNITS	VARC	40	Y	Rate units of SERIAL_RATE_OF_MARCH	Text: [MI,KM,FT,M]/[days, hours, minutes]
18	SERIAL_SPACING	NUMB		Y	Min distance between serials leaving a node	Float >= 0
19	SERIAL_SPACING_UNITS	VARC	40	Y	Units of SERIAL_SPACING	Text: [MI,KM,FT,M]
20	LINEHAUL_TRANSITION_TIME	NUMB		Y	Time spent at Trailer Transfer Point (TTP)	Float >= 0
21	LINEHAUL_TRANSITION_TIME_UNITS	VARC	40	Y	Units of LINEHAUL_TRANSITION_TIME	Text: days, hours, minutes
22	CONVOY_RATE_OF_MARCH	NUMB		Y	Max rate of march of a convoy	Float >= 1
23	CONVOY_RATE_OF_MARCH_UNITS	VARC	40	Y	Rate units of CONVOY_RATE_OF_MARCH	Text: [MI,KM,FT,M]/[days, hours, minutes]
24	LINEHAUL_TRIP_SCHED	VARC	1000	Y	List of hours travel, hour rest ie. "12,12" or "5,1,5,13	Alpha/numeric list
25	CONVOY_TRIP_SCHED	VARC	1000	Y	List of hours travel, hour rest ie. "12,12" or "5,1,5,13	Alpha/numeric list
26	COMMERCIAL_TRIP_SCHED	VARC	1000	Y	List of hours travel, hour rest ie. "12,12" or "5,1,5,13	Alpha/numeric list
27	MILITARY_TRIP_SCHED	VARC	1000	Y	List of hours travel, hour rest ie. "12,12" or "5,1,5,13	Alpha/numeric list
28	BERTH_TIME	NUMB		Y	Time to put a ship at berth	Float >= 0
29	BERTH_TIME_UNITS	VARC	40	Y	Units of BERTH_TIME	Text: days, hours, minutes

Table name: SCENARIO_PARAMETER (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
30	DEBERTH_TIME	NUMB		Y	Time to move a ship off berth	Float >= 0
31	DEBERTH_TIME_UNITS	VARC	40	Y	Units of DEBERTH_TIME	Text: days, hours, minutes
32	MIN_TRAIN_CARS	NUMB		Y	Minimum number of cars in a train	Integer >= 1
33	MAX_TRAIN_CARS	NUMB		Y	Maximum number of cars in a train	Integer >= 1
34	RAIL_RATE_OF_MARCH	NUMB		Y	Rate of march of a train	Integer > 0
35	RAIL_RATE_OF_MARCH_UNITS	VARC	40	Y	Units of RAIL_RATE_OF_MARCH	Text: [MI,KM,FT,M]/[days, hours, minutes]
36	MAX_TRAIN_WAIT_TIME	NUMB		Y	Maximum time a train will wait	Float >= 0
37	MAX_TRAIN_WAIT_TIME_UNITS	VARC	40	Y	Units of MAX_TRAIN_WAIT_TIME	Text: [MI,KM,FT,M]/[days, hours, minutes]
38	RAIL_TRAVEL_SCHED	VARC	1000	Y	List of hours travel, hour rest ie. "12,12" or "5,1,5,14	Alpha/numeric list
39	LOAD_SHIPS	NUMB	1	Y	1=load RLNs on ships before ending sim of conus, 0 = do not load ships	Integer: 0 or 1
40	DEFAULT_ROUTE_WIDTH_LIMIT	NUMB		Y	Default minimum width limit (inches) for finding road/rail routes	Integer >= 0
41	DEFAULT_ROUTE_HEIGHT_LIMIT	NUMB		Y	Default minimum height limit (inches) for finding road/rail routes	Integer >= 0
42	DEFAULT_ROUTE_WEIGHT_LIMIT	NUMB		Y	Default minimum weight limit (st) for finding road/rail routes	Integer >= 0
43	DEFAULT_ROUTE_MLC_LIMIT	NUMB		Y	Default minimum Military Load Class (MLC) limit for finding road/rail routes	Integer: 0 - 150
44	WATERCRAFT_ADEQUATE_LOAD	NUMB	3	Y	Desired load percentage at which watercraft can leave	Integer: 0 - 100
45	WATERCRAFT_MINIMUM_LOAD	NUMB	3	Y	Minimum load percentage at which watercraft can leave	Integer: 0 - 100

Table name: SCENARIO_PARAMETER (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
46	TRUCK_ADEQUATE_LOAD	NUMB	3	Y	Desired load percentage at which trucks can leave	Integer: 0 - 100
47	RAILCAR_ADEQUATE_LOAD	NUMB	3	Y	Desired load percentage at which railcars can leave	Integer: 0 - 100
48	ROTARY_WING_ADEQUATE_LOAD	NUMB	3	Y	Desired load percentage at which rotary wing aircraft can leave	Integer: 0 - 100
49	FIXED_WING_ADEQUATE_LOAD	NUMB	3	Y	Desired load percentage at which fixed wing aircraft can leave	Integer: 0 - 100
50	FIXED_WING_MINIMUM_LOAD	NUMB	3	Y	Minimum load percentage at which fixed wing aircraft can leave	Integer: 0 - 100
51	MAXIMUM_TRUCK_WAIT	NUMB		Y	Maximum time (in days) trucks will wait for serial to form	Float >= 0
52	MAXIMUM_RAILCAR_WAIT	NUMB		Y	Maximum time (in days) railcars will wait for train to form	Float >= 0
53	MAXIMUM_ROTARY_WING_WAIT	NUMB		Y	Maximum time (in days) rotary wing aircraft will wait for serial to form	Float >= 0
54	MAXIMUM_FIXED_WING_WAIT	NUMB		Y	Maximum time (in days) fixed wing aircraft will wait for serial to form	Float >= 0
55	MAXIMUM_WATERCRAFT_WAIT	NUMB		Y	Maximum time (in days) water craft will wait for serial to form	Float >= 0
56	PERCENT_FOR_DELIVERY	NUMB	3	Y	Percent of equipment/personnel required to be considered delivered	Integer: 0 - 100
57	MAKE_STRANDED_AVAILABLE	NUMB	1	Y	1: Make all cargo items available at POD if they are not in the projection. 0: Do not make all cargo items available at POD if they are not in the projection.	Integer: 0 or 1
58	FLOW_UNSOURCED	NUMB	1	Y	0: Do not simulate RLNs with providing org=X, 1: Do simulate such RLNs	Integer: 0 or 1

Table name: SCENARIO_THEATER
Table Description: Scenario Theater which is a list of country state codes
Dependent on: SCENARIO, COUNTRY
Data Source: ELIST
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Unique number for the scenario	Valid on SCENARIO.SCENARIO_NUM
2	COUNTRY_STATE_CODE	VARC	2	N	Country state code	Valid on COUNTRY.ID

Table name: SCEN_ARRIVING_ENABLERS
Table Description: Table for finding all arriving enablers in a TPFDD.
Dependent on: SCENARIO, ET_RLN
Data Source: User
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	The number of the scenario this RLN is associated with	Valid on SCENARIO.SCENARIO_NUM
2	RLN	VARC	7	N	RLN of unit that matches an arriving_enabler	Valid on ET_RLN.RLN

Table name: SCEN_ARRIVING_ENABLER_MATCHING
Table Description: Table for finding all arriving enablers in a TPFDD.
Dependent on: SCENARIO, ET_RLN
Data Source: User
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of scenario enabler is associated with.	Valid on SCENARIO.SCENARIO_NUM
2	RLN	VARC	7	N	RLN enabler is associated with	Valid on ET_RLN.RLN
3	ATTRIBUTE	VARC	30	N	Network attribute to be changed. Identifies what attribute in the JAVA class is to be changed	Alpha/numeric from JAVA class
4	CLSNETOBJ	VARC	40	N	Network object this is applied to as defined in the JAVA class	Alpha/Numeric from JAVA class.
5	VALUE	NUMB		N	Amount object is to be changed	Float

Table name: SCEN_MSEL
Table Description: Master scenario of events list
Dependent on: SCENARIO
Data Source: User
Static vs Dynamic: Dyanmic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Unique number for the scenario	Valid on SCENARIO.SCENARIO_NUM
2	MSEL_NUM	NUMB		N	Unique ID for this MSEL	Integer >= 0
3	NAME	VARC	40	N	User defined name for this MSEL	Any alpha/numeric

Table name: SCEN_MSEL_PRED_EXP
Table Description: Query of network objects upon which this MSEL will be applied.
Dependent on: SCENARIO, SCEN_MSEL
Data Source: User
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Unique ID of scenario.	Valid on SCENARIO.SCENARIO_NUM
2	MSEL_NUM	NUMB		N	Unique ID of MSEL set this rule belongs to.	Valid on SCEN_MSEL.MSEL_NUM
3	EXPRESSION_ID	NUMB		N	ID of conditional statements, e.g. premises, and resultant (sequential).	Integer >= 1
4	PARENT_EXPR_ID	NUMB		N	ID of conditional statement that this statement is a child of.	Valid on SCEN_MSEL_PRED_EXP.EXPRESSION_ID
5	NEGATE_FLAG	NUMB	1	Y	Whether predicate expression is negated or not (boolean).	Integer: 0 or 1
6	LOGICAL_OPERATOR	VARC	30	Y	Logical operator between premise statements. 1st expression is null.	Alpha: null, &&, "pipes"
7	DBKEY	VARC	30	Y	Foreign key based on table containing SCEN_MSEL_PRED_EXP.VALUE_TYPE.	Valid on columnname from any related table
8	KEY	VARC	30	Y	Key to object parameter to recreate expression - JAVA name for column in any other table.	Alpha: null, ...
9	OPERATOR	VARC	30	Y	Operator for the key/value pair for the expression. If null, then expression is the resultant and = is assumed.	Alpha: <, >, =, !=, contains, like, null, ...
10	VALUE_TYPE	VARC	30	Y	JAVA class name of the type of object that e.g. SCEN_MSEL_PRED_EXP.VALUE is.	Any alpha/numeric
11	VALUE	VARC	30	Y	Actual value (as String) of the object. It is the hash key to get the object from memory when recreating the expressions.	Valid on COMMODITY.NAME

Table name: SCEN_MSEL_PRED_EXP (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
12	USER_ARG_TYPE	VARC	30	Y	JAVA class name for SCEN_MSEL_PRED_EXP.USER_ARG_VALUE.	Any alpha/numeric
13	USER_ARG_VALUE	VARC	30	Y	Value (as String) of the user_arg_type. Note: the Query tool is set up for multiple selection of args, but NOT in the database. Would need to make a separate table of user args and point to its expression_id. ORIGIN" for key="GeolocationCode".	Any alpha/numeric

Table name: SCEN_MSEL_RESULTS
Table Description: Action applied to the network objects queried for in SCEN_MSEL_PRED_EXP.
Dependent on: SCENARIO, SCEN_MSEL
Data Source: User
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Unique ID for the scenario	Valid on SCENARIO.SCENARIO_NUM
2	MSEL_NUM	NUMB		N	Unique ID of the MSEL	Valid on SCEN_MSEL.MSEL_NUM
3	ATTRIBUTE	VARC	30	N	Name of the attribute to be modified.	Any alpha/numeric
4	BEGIN_TIME	NUMB		Y	Begin time of MSEL in days.	Float: -999 or -100 to 999
5	END_TIME	NUMB		Y	End time of MSEL in days.	Float: -999 or -100 to 999
6	VALUE	NUMB		Y	Amount of change	Float
7	OPERATION	NUMB	2	Y	Type of operation to be applied to the network object. (0=unknown, 1=New value, 2=Delta, 3=Double, 4=Triple, 5=Quadruple, 6=Half, 7=Third, 8=Quarter, 9=Default)	Numeric: 0-9
8	CLSNETOBJ	VARC	40	N	Network object this is applied to as defined in the JAVA class	Alpha/Numeric from JAVA class.

Table name: SCEN_ROUTE
Table Description: Definition of an ELIST scenario route.
Dependent on: SCENARIO, NETWORK_NODE
Data Source: User
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of scenario	Valid on SCENARIO.SCENARIO_NUM
2	ROUTE_NUM	NUMB		N	Number of route (system generated).	Number >= 0
3	ORIGIN_NAME	VARC	60	N	Name of origin node	Valid on NETWORK_NODE.NAME
4	DEST_NAME	VARC	60	N	Name of destination node	Valid on NETWORK_NODE.NAME
5	MODE_NUM	NUMB	1	N	Transportation mode type: 0 = Road, 1 = Rail, 2 = Water, 3 = Pipeline, 4 = Air (fixed wing), and 5 = Helicopter.	Integer: 0 to 5
6	SOURCE	VARC	60	Y	String source, either ORACLE user name or how it was generated	Alpha/Numeric: Oracle userid, or distance, time, capacity, or distance (Oracle Userid), time (Oracle userid), capacity (Oracle userid)
7	DISTANCE	NUMB		Y	Distance (mi) of the route	Integer >= 0
8	TIME	NUMB		Y	Time (days) to travel the route	Integer >= 1
9	PRIORITY	NUMB	1	Y	Priority use of the route. 1 = high priority, 9 = low priority.	Numeric: 1-9
10	PREFERENCES	VARC	10	Y	String of characters that define a User preferences of the route. This can be a single character or any combination of H = HET, C = Convoy, D = Commercial Direct Delivery, or M = Military Direct delivery.	Alpha: H, C, D, M or any combination of these

Table name: SCEN_ROUTE_LINK
Table Description: Links of given routes
Dependent on: SCENARIO, SCEN_ROUTE, NETWORK_LINK
Data Source: User
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SCENARIO_NUM	NUMB		N	Number of scenario	Valid on SCENARIO.SCENARIO_NUM
2	ROUTE_NUM	NUMB	5	N	Route number to match on.	Valid on SCEN_ROUTE.ROUTE_NUM
3	LINK_NUM	NUMB	5	N	Number of link (starting at 0)	Integer >= 0
4	LINK_NAME	VARC	30	Y	Name of this link	Valid on NETWORK_LINK.NAME

4.2 Physical Design of the ETPFDD Tables

The following provides the ETPFDD data tables and the data elements that comprise them.

Table name: COMMODITY
Table Description: User defined categories of equipment to be transported
Dependent on: COMMODITY_SET
Data Source: ETPFDD
Static vs Dynamic: Dynamic - infrequent changes

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	COMMODITY_SET_NUM	NUMB		N	ID of parameter set for loading	Valid on COMMODITY_SET.COMMODITY_SET_NUM
2	NAME	VARC	30	N	Name of commodity	Any alpha/numeric
3	TYPE	CHAR	1	N	PA(x), (p)OL, (b)reakbulk, (r)ORO, (c)ontainer	Alpha: x, p, b, r, or c
4	AMOUNT_PER_VEHICLE	NUMB		N	Amount per Vehicle ratio (st,pax,gal/vehicle)	Float >= 0
5	FT_PER_ST_RATIO	NUMB		Y	Square Feet per Short Ton Ratio (if Breakbulk or RORO)	Float >= 0
6	AREA_STOW_FACTOR	NUMB		Y	Area Stow Factor - Percentage (if Breakbulk or RORO)	Integer: 0 to 100
7	HET	NUMB	1	Y	1=Heavy Equipment Transportable (if RORO), else 0	Integer: 0 or 1
8	FORTY_FOOT	NUMB	1	Y	1=container is 40 ft, else 0	Integer: 0 or 1
9	CHANGE_DATE	DATE	7	Y	Last modification date for this record	Any valid date
10	COMMODITY_NUM	NUMB	3	Y	Unique number of commodity for this commodity set	Integer >= 1

Table name: COMMODITY_ASSET_CARRY
Table Description: Ranked list of which assets can carry which commodities
Dependent on: COMMODITY, COMMODITY_ASSET_TYPE, COMMODITY_SET
Data Source: ETPFDD
Static vs Dynamic: Dynamic - infrequent change

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	COMMODITY_SET_NUM	NUMB		N	Number of parameter set for loading	Valid on COMMODITY_SET.COMMODITY_SET_NUM
2	COMMODITY_NUM	NUMB		N	Number of commodity to match on	Valid on COMMODITY.COMMODITY_NUM
3	ASSET_NUM	NUMB		N	Number of asset to match on	Valid on COMMODITY_ASSET_TYPE.ASSET_NUM
4	MODE_NUM	NUMB		N	Transportation mode type: 0 = Road, 1 = Rail, 2 = Water, 3 = Pipeline, 4 = Air (fixed wing), and 5 = Helicopter.	Integer: 0 to 5
5	CARRY_RANK	NUMB		N	Index necessary for an ordered list	Integer >= 1
6	USE_IF_LATE_RULE	NUMB	1	Y	1= If late, 2 = If ontime, 0 or null = Anytime	Integer: 0, 1, 2, or null
7	DISTANCE_RULE	VARC	1	Y	G-greater than, L-less than, null-do not care	Alpha: G, L, or null
8	DISTANCE	NUMB		Y	Distance in miles for distance_rule	Float >= 0
9	CARRY_RULE_NUM	NUMB		N	Unique number of rule in this ruleset.	Integer >= 0

Table name: COMMODITY_ASSET_TYPE
Table Description: Table of all the assets to be used in simulation
Dependent on: COMMODITY_SET
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	COMMODITY_SET_NUM	NUMB		N	Number of the asset set	Valid on COMMODITY_SET.COMMODITY_SET_NUM
2	ASSET_NUM	NUMB		N	Number of the asset	Integer >= 1
3	NAME	VARC	40	N	Name of asset	Any alpha/numeric
4	MODE_ON	VARC	40	N	Mode asset travels on	Alpha: Air, Water, Road, Rail, Rotary wing
5	TRACKED	NUMB	1	Y	is the asset fully tracked, 1=yes, 0=no	Integer: 0 or 1
6	MILITARY	NUMB	1	Y	1=military, 0=commercial	Integer: 0 or 1
7	TYPE	NUMB	1	Y	0=direct delivery, 1=tractors, 2=trailers	Integer: 0, 1, or 2

Table name: COMMODITY_ASSET_VEHICLE
Table Description: Vehicles in each asset type
Dependent on: COMMODITY_SET, COMMODITY_ASSET_TYPE, VEHICLE_AIRCRAFT, VEHICLE_MATCHING, VEHICLE_RAILCAR, VEHICLE_SHIP, VEHICLE_TRACTOR, VEHICLE_TRAILER, VEHICLE_TRUCK
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	COMMODITY_SET_NUM	NUMB		N	Number of the asset set	Valid on COMMODITY_SET.COMMODITY_SET_NUM
2	ASSET_NUM	NUMB		N	Number of the asset	Valid on COMMODITY_ASSET_TYPE.ASSET_NUM
3	TYPE	VARC	60	N	Type of vehicle	Valid on vehicle type from VEHICLE_AIRCRAFT, VEHICLE_MATCHING, VEHICLE_RAILCAR, VEHICLE_SHIP, VEHICLE_TRACTOR, VEHICLE_TRAILER, or VEHICLE_TRUCK tables
4	PERCENT_AVAIL	NUMB		Y	default percent availability	Integer: 0 to 100

Table name: COMMODITY_RULE
Table Description: ETEdit Rule Set Rules
Dependent on: COMMODITY_SET
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	COMMODITY_SET_NUM	NUMB		N	ID of commodity set this rule belongs to	Valid on COMMODITY_SET.COMMODITY_SET_NUM
2	RULE_NUM	NUMB		N	ID of rule	Integer >= 1
3	PRIORITY	NUMB		Y	priority of rule	Integer >= 1
4	RULE_TYPE	VARC	40	Y	Type of rule e.g. commodity, etc.	Alpha: commodity, mode/source
5	NAME	VARC	60	Y	Name of rule	Any alpha/numeric

Table name: COMMODITY_RULE_PRED_EXP
Table Description: ETEdit Rule Premises and Resultants - Provides JAVA class "anl.reference.rules.RuleStatement" object mapping to Oracle database table structure.
Dependent on: COMMODITY_SET, COMMODITY_RULE
Data Source: ETPFDD
Static vs Dynamic: Dynamic - Infrequent updates

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	COMMODITY_SET_NUM	NUMB		N	ID of commodity set this rule belongs to.	Valid on COMMODITY_SET.COMMODITY_SET_NUM
2	RULE_NUM	NUMB		N	ID of rule.	Valid on COMMODITY_RULE.RULE_NUM
3	EXPRESSION_ID	NUMB		N	ID of conditional statements, e.g. premises, and resultant (sequential).	Integer >= 1
4	PARENT_EXPR_ID	NUMB		Y	ID of conditional statement that this statement is a child of.	Valid on COMMODITY_RULE_PRED_EXP.EXPRESSION_ID
5	NEGATE_FLAG	NUMB	1	Y	Whether predicate expression is negated or not (boolean).	Integer: 0 or 1
6	LOGICAL_OPERATOR	VARC	5	Y	Logical operator between premise statements. 1st expression is null.	Alpha: null, &&, "pipes"
7	DBKEY	VARC	25	Y	Foreign key based on table containing COMMODITY_RULE_PRED_EXP.VALUE_TYPE.	Valid on columnname from any related table
8	KEY	VARC	25	Y	Key to object parameter to recreate expression - JAVA name for column in any other table.	Alpha: null, ...
9	OPERATOR	VARC	15	Y	Operator for the key/value pair for the expression. If null, then expression is the resultant and = is assumed.	Alpha: <, >, =, !=, contains, like, null, ...
10	VALUE_TYPE	VARC	80	Y	JAVA class name of the type of object that e.g. COMMODITY_RULE_PRED_EXP.VALUE is.	Any alpha/numeric

Table name: COMMODITY_RULE_PRED_EXP (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
11	VALUE	VARC	30	Y	Actual value (as String) of the object. It is the hash key to get the object from memory when recreating the expressions.	Valid on COMMODITY.NAME
12	USER_ARG_TYPE	VARC	80	Y	JAVA class name for COMMODITY_RULE_PRED_EXP.USER_ARG_VALUE.	Any alpha/numeric
13	USER_ARG_VALUE	VARC	30	Y	Value (as String) of the user_arg_type. Note: the Query tool is set up for multiple selection of args, but NOT in the database. Would need to make a separate table of user args and point to its expression_id. ORIGIN" for key="GeolocationCode".	Any alpha/numeric

Table name: COMMODITY_SET
Table Description: Model Commodities
Dependent on: FOLDER
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	FOLDER_NUM	NUMB		N	Folder ID of the commodity set	Valid on FOLDER.FOLDER_NUM
2	COMMODITY_SET_NUM	NUMB		N	ID of commodity set for loading	Integer >= 1
3	NAME	VARC	40	Y	Name of commodity set	Any alpha/numeric
4	CHANGE_DATE	DATE	7	Y	Date record was last modified	Any valid date
5	CURRENT_USER	VARC	40	Y	Oracle id of user with this data set loaded in memory.	Alpha/numeric name from the Oracle login userid

Table name: COUNTRY
Table Description: All the countries that can be restricted
Dependent on: N/A
Data Source: JOPES
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ID	VARC	2	N	ID of country (2 letters or numbers)	Alpha country ID from JOPES
2	NAME	VARC	40	N	Name of country	Alpha country name from JOPES

Table name: ETPFDD
Table Description: TPFDD Header Information
Dependent on: FOLDER, TUCHA, COMMODITY_SET, GEOLOC
Data Source: ETPFDD, TPFDD (B8 file)
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	FOLDER_NUM	NUMB	5	N	Unique number for the folder	Valid on FOLDER.FOLDER_NUM
2	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD (system generated)	Integer >= 1
3	ETPFDD_NAME	VARC	40	N	Name of the TPFDD (user entered)	Any alpha/numeric
4	OPLAN_ID	VARC	5	N	OPLAN number for the TPFDD (JOPES) from TPFDD B8 file	Alpha/numeric
5	OPLAN_DATE	VARC	18	Y	Date/time stamp of the OPLAN (JOPES) from TPFDD B8 file	Alpha/numeric
6	SECURITY_CLASS	VARC	19	N	Security classification of the TPFDD	Unclassified, Top Secret, Secret, Confidential
7	OPLAN_IDENT	VARC	36	Y	OPLAN identification information (JOPES) from TPFDD B8 file	Alpha/numeric
8	TASK_ORG	VARC	50	Y	Describes task organization of OPLAN (JOPES) from TPFDD B8 file	Alpha/numeric
9	OBJECTIVE_AREA	VARC	36	Y	Describes primary objective of OPLAN (JOPES) from TPFDD B8 file	Alpha/numeric
10	OPLAN_CHANGE_NUM	VARC	2	Y	OPLAN change number (JOPES) from TPFDD B8 file	Alpha/numeric
11	CONCEPT_OF_OPERATIONS	VARC	400	Y	An abbreviated concept of operations for OPLAN (JOPES) from TPFDD B8 file	Alpha/numeric
12	ORIGINATOR_UIC	VARC	6	Y	Owner UIC of the data in the OPLAN (JOPES) from TPFDD B8 file	Alpha/numeric
13	TUCHA_NUM	NUMB	5	Y	TUCHA number used for level 3/4	Valid on TUCHA.TUCHA_NUM
14	TUCHA_DATE	VARC	18	Y	Date of TUCHA used for level 3/4 from TPFDD B8 file	Alpha/numeric
15	LOAD_DATE	DATE	7	N	Date TPFDD loaded to the database (system generated)	Any valid date

Table name: ETPFDD (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
16	LOAD_USERID	VARC	40	N	USERID who loaded TPFDD to the database (system generated)	Alpha/numeric system name from login userid
17	FORCE_RECD_COUNT	NUMB	6	Y	TPFDD force record count (JOPES)	Integer >= 0
18	NON_UNIT_RECD_COUNT	NUMB	6	Y	TPFDD nonunit record count (JOPES)	Integer >= 0
19	COMMODITY_SET_NUM	NUMB	6	Y	Number of the asset set for loading	Valid on COMMODITY_SET.COMMODITY_SET_NUM
20	GEOLOC_NUM	NUMB	6	Y	Number of the GEOLOC set	Valid on GEOLOC.GEOLOC_NUM
21	MOD_DATE	DATE	7	Y	Date ETPFDD was last modified.	Any valid date
22	CURRENT_USER	VARC	40	Y	Oracle id of user with this data set loaded in memory.	Alpha/numeric name from the Oracle login userid

Table name: ET_CARGO_CATEGORIES
Table Description: Description and default dimensions for non-containerized cargo category types by service. During detail expansion provides default Level 4 characteristics for carried cargo.
Dependent on: N/A
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SERVICE	VARC	1	N	Service Code as defined in JOPES	Any alpha/numeric JOPES code
2	CARGO_CATEGORY	VARC	3	N	Cargo category code 1st position as defined in JOPES or BLK, OVR, OUT, NAT	Alpha: Any valid JOPES code and BLK, OVR, OUT, NAT
3	DESCRIPTION	VARC	50	Y	Description	Any alpha/numeric
4	DEF_LENGTH	NUMB	5	Y	Default length in inches for this category	Integer >= 0
5	DEF_WIDTH	NUMB	5	Y	Default width in inches for this category	Integer >= 0
6	DEF_HEIGHT	NUMB	5	Y	Default height in inches for this category	Integer >= 0
7	DEF_MTONS	NUMB	8	Y	Default measurement tons for this category	Float >= 0

Table name: ET_CLASSIFICATION
Table Description: List of ETEdit Classifications
Dependent on: N/A
Data Source: ETPFDD
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	PRIORITY	NUMB	3	N	Priority of classification, 1-high.	Integer >= 1
2	NAME	VARC	200	N	Name of the classification.	Alpha: Unclassified, Limited Distribution, Confidential, Secret, and others as required.
3	COLOR	VARC	20	N	Color of the classification banner.	Alpha/Numeric: Green, Yellow, Red, or RGB values.

Table name: ET_CODES
Table Description: Codes for all ETPFDD items
Dependent on: N/A
Data Source: ETPFDD
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	FIELDNAME	VARC	40	N	Field this code represents	Any alpha/numeric
2	CODE	VARC	10	N	Value of code	Any alpha/numeric
3	DESCRIPTION	VARC	200	Y	Description of code	Any alpha/numeric
4	ORIGINAL	NUMB	1	Y	Origin of the code (1-original JOPES code value, 0-ET specific code value)	Numeric: 0 or 1

Table name: ET_EXPAND_RLN
Table Description: Selected RLNs to be Expanded to Level 6
Dependent on: ETPFDD
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	RLN	VARC	7	N	Requirement Line Number to be expanded	Any Alpha/Numeric
3	CARGO_CATEGORY_CODE	VARC	3	N	Cargo Category Code to be expanded. Cargo category code as defined in JOPES or cargo size class	Valid combinations of JOPES defined 3 character codes or CCC, BLK, OVR, OUT, NAT

Table name: ET_EXPORT_ASCII_RLN
Table Description: Table for storing export B8 (RLN) results across platforms
Dependent on: ETPFDD
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	LINE	VARC	384	N	Line of the file to be exported	Any alpha/Numeric

Table name: ET_EXPORT_ASCII_SRF
Table Description: Table for storing export B8 (SRF) results across platforms
Dependent on: ETPFDD
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	LINE	VARC	870	N	Line of the file to be exported	Any Alpha/Numeric

Table name: ET_GROUP
Table Description: User defined groups of units (Force Modules)
Dependent on: ETPFDD
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	GROUP_ID	VARC	7	N	Unique identification for the group (system generated)	Any alpha/numeric
3	GROUP_NAME	VARC	800	Y	Name of the group (user entered)	Any alpha/numeric
4	GROUP_TYPE	VARC	30	Y	Type of group (user entered - airborne, infantry, etc.)	Alpha: none, army, brigade_III, brigade_X, battalion, company, corps, division, platoon, section, or squad
5	GROUP_SIZE	VARC	30	Y	Size of group (user entered - division, brigade, etc.)	Alpha: AA infantry, adjutant general, air assault, air defense artillery, airborne, airborne infantry, ammunition, armor, armored cavalry, army medical, aviation, aviation combat air, aviation combat service support, aviation combat support, blank, combat support battalion, civil affairs, chaplain, chemical, CSG Forward, CSG Rear, DISCOM, engineer, field artillery, infantry, judge advocate general,

Table name: ET_GROUP (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
5	GROUP_SIZE (continued)					light infantry, maintenance, military intelligence, military police, mountain, ordnance, special forces, signal, supply, transportation
6	GROUP_COLOR	VARC	20	Y	Color of the group (used for the 2D Viewer)	List of RGB values.
7	ASSEMBLY_LOCATION_CODE	VARC	3	Y	Specifies which location type this force module will assemble at	Valid on ET_LOCATION_CODES.LOCATION_NAME

Table name: ET_GROUP_DES
Table Description: Descriptions of the user defined groups of units
Dependent on: ETPFDD, ET_GROUP
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	GROUP_ID	VARC	7	N	Unique number for the group	Valid on ET_GROUP.GROUP_ID
3	GROUP_DES	VARC	800	Y	Description of the group (user entered)	Any alpha/numeric

Table name: ET_GROUP_RLN
Table Description: RLNs assigned to groups
Dependent on: ETPFDD, ET_GROUP, ET_RLN
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	GROUP_ID	VARC	7	N	Unique number for the group	Valid on ET_GROUP.GROUP_ID
3	RLN	VARC	7	N	RLN in the group	Valid on ET_RLN.RLN

Table name: ET_JFAST_PROJ
Table Description: Projected movements from JFAST
Dependent on: ETPFDD, ET_PROJECTION, ET_RLN, GEOLOCATION_CODE
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	PROJECTION_NUM	NUMB	5	N	Unique number for the projection excursion.	Valid on ET_PROJECTION.PROJECTION_NUM
3	RLN	VARC	7	N	Requirement Line Number (JOPES)	Any alpha/numeric but should be valid on ET_RLN.RLN
4	CARGO_CATEGORY_CODE	VARC	3	N	Cargo category code as defined in JOPES	Any valid combination of JOPES defined 3 character codes
5	ORIG_GEOLOC	VARC	4	Y	Starting location geoloc code	Valid on GEOLOCATION_CODE.GEOLOC_CODE
6	DEST_GEOLOC	VARC	4	Y	Ending location geoloc code	Valid on GEOLOCATION_CODE.GEOLOC_CODE
7	ONLOAD_TIME	NUMB	6	Y	Day CARGO_ID completed onloading at the origin	Float: -100 to 999
8	OFFLOAD_TIME	NUMB	6	Y	Day CARGO_ID completed offloading at the destination	Float: -100 to 999
9	STONS	NUMB	9	N	Weight in short tons for the portion of the CARGO_ID that is moving (level 2/3 split moves only)	Float >= 0
10	CBBLS	NUMB	7	N	POL in CBBLS for the portion of the CARGO_ID that is moving (level 2/3 split moves only)	Float >= 0
11	PAX	NUMB	7	Y	Number of PAX moving	Integer >= 0
12	VEHICLE_ID	VARC	17	N	Unique identifier for the vehicle (ship or a/c)	Any alpha/numeric
13	VEHICLE_NAME	VARC	40	Y	Name of the vehicle this CARGO_ID is loaded on	Any alpha/numeric
14	VEHICLE_MODE	VARC	1	Y	Mode of the vehicle (A-air, S-sea, L-land, P-any)	Alpha: A, S, L, P

Table name: ET_JFAST_PROJ (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
15	VEHICLE_TYPE	VARC	10	Y	Type of vehicle (ship-RORO,FSS..., a/c - C5,C17...)	Any alpha/numeric
16	VEHICLE_TRIP_NUM	NUMB	10	N	Unique number to denote multiple trips of the ship	Integer >= 0
17	VEHICLE_STOP_NUM	NUMB	3	N	Unique number to denote multiple stops of the ship	Integer >= 0
18	DEPART_TIME	NUMB	6	Y	Day vehicle departed the origin	Float: -100 to 999
19	ARRIVE_TIME	NUMB	6	Y	Day vehicle arrived at the destination	Float: -100 to 999

Table name: ET_LIN_CODE
Table Description: Groups of LINs be Expanded to Level 4/6
Dependent on: ET_LIN_GROUP
Data Source: ETPFDD
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LIN_NUM	NUMB	5	N	Unique number for the LIN group.	Valid on ET_LIN_GROUP.LIN_NUM
2	LIN	VARC	6	N	LIN of the item included in the group.	Any Alpha/numeric in format ANNNNN
3	DESCRIPTION	VARC	100	N	Description of the LIN of the item included in the group.	Any Alpha/numeric

Table name: ET_LIN_GROUP
Table Description: Groups of LINs be Expanded to Level 4/6
Dependent on: N/A
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LIN_NUM	NUMB	5	N	Unique number for the LIN group.	Integer >= 1
2	DESCRIPTION	VARC	100	N	Description of the LIN group.	Any Alpha/numeric

Table name: ET_LOCATION_NAMES
Table Description: Location Names and Sequences
Dependent on: N/A
Data Source: ETPFDD
Static vs Dynamic: Static - only DBA can modify w/SQL

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LOCATION_CODE	VARC	3	N	Code for the location type (ORG-origin, OIL-origin ILOC, POE, SIL-strat ILOC, POD, SA-staging area, TIL-theater ILOC, ISB-intermediate staging base, DST-destination, FO-followon)	ALPHA: ORG, OIL, POE, SIL, POD, SA, TIL, ISB, DST, FO
2	LOCATION_NAME	VARC	40	Y	Name of the location for model interfaces	Any alpha/numeric
3	ACTIVITY_TYPE	VARC	15	Y	Type of activity performed at location	Any alpha/numeric
4	LEG	VARC	1	Y	Leg (O-origin, S-strategic, T-theater)	Alpha: O, S, and T
5	SEQ_NUM	NUMB	3	N	Sequence number which denotes order of locations	Integer >= 1

Table name: ET_PROJECTION
Table Description: Projection excursions
Dependent on: ETPFDD
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	PROJECTION_NUM	NUMB	5	N	Unique number for the projection excursion	Integer >= 1
3	PROJECTION_NAME	VARC	40	N	Name of this projection excursion	Any alpha/numeric
4	CURRENT_USER	VARC	40	Y	Oracle id of user with this data set loaded in memory.	Alpha/numeric name from the Oracle login userid
5	MOD_DATE	DATE	7	Y	Date ETPFDD was last modified.	Any valid date

Table name: ET_PROJECTION_STATUS
Table Description: Description of each operation updating projection
Dependent on: ETPFDD, ET_PROJECTION, PROJECTION_OPERATION, SCENARIO
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the ETPFDD	Valid on ETPFDD.ETPFDD_NUM
2	PROJECTION_NUM	NUMB	5	N	Unique number for this projection of this ETPFDD	Valid on ET_PROJECTION.PROJECTION_NUM
3	OPERATION_SEQUENCE	NUMB	4	N	Ordinal of the operation	Integer
4	OPERATION_NUM	NUMB	4	N	Number identifying operation	Valid on PROJECTION_OPERATION.PROJECTION_NUM
5	OPERATION_STEP_NUM	NUMB	2	N	Number identifying specific step of the operation	Integer >= 1
6	SCENARIO_NUM	NUMB		Y	Number identifying scenario used for operation	0 or Valid on SCENARIO.SCENARIO_NUM
7	BYPASS	NUMB	1	Y	0: no bypass; 1: operation bypassed portion of ETPFDD described in SCENARIO_LIMITS	NUMERIC: 0 or 1
8	USERID	VARC	40	N	User who updated projection	Alpha/numeric system name from login userid
9	OPDATE	DATE	7	N	Date projection was updated (system generated)	Any valid date
10	SCENARIO_LIMITS	VARC	400	Y	Description of subset of ETPFDD operated on or bypassed	Any alpha/numeric

Table name: ET_RLN
Table Description: Unit Information
Dependent on: ETPFDD, ET_RLN, TUCHA_UTC, GEOLOCATION_CODE
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	RLN	VARC	7	N	Requirement Line Number (JOPES)	Any alpha/numeric
3	RECORD_TYPE	VARC	1	N	JOPES record type (F-force, J-pax, G-nonunit)	Alpha: F, J, and G
4	PARENT_RLN	VARC	7	Y	Parent of RLN (JOPES/user entered)	Null or valid on ET_RLN.RLN
5	PROV_ORG	VARC	1	Y	Providing organization as defined in JOPES	Valid on codes defined in JOPES
6	SERVICE	VARC	1	Y	Service code as defined in JOPES.	Valid on codes defined in JOPES
7	UTC	VARC	5	Y	Unit Type Code (JOPES)	Valid on TUCHA_UTC.UTC
8	ULC	VARC	3	Y	Unit Level Code (JOPES)	Any alpha/numeric
9	FORCE_DESCRIPTION	VARC	36	Y	Force description (JOPES)	Any alpha/numeric
10	TPSN	VARC	5	Y	Troop Sequence Number (Army only)	Any alpha/numeric
11	FIC	NUMB	1	Y	Force Indicator Code as defined in JOPES	Valid on codes defined in JOPES
12	PIC	VARC	1	Y	Parent Indicator Code as defined in JOPES	Valid on codes defined in JOPES
13	UIC	VARC	6	Y	Unit Identification Code (JOPES)	Any alpha/numeric
14	RLN_NAME	VARC	30	Y	Unit name/Description of requirement (JOPES)	Any alpha/numeric
15	SRC	VARC	11	Y	Standard Requirement Code (Army only)	Any alpha/numeric
16	AUTH_PERS	NUMB	5	Y	Authorized wartime personnel strength (JOPES)	Integer >= 0
17	CINC_RDD	NUMB	6	Y	CINC required delivery day at the destination regardless of transportation feasibility (JOPES)	Integer: -100 to 999
18	PROJECT_CODE	VARC	3	Y	Optional field for special projects (JOPES)	Any alpha/numeric

Table name: ET_RLN (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
19	TUCHA_STATUS	VARC	1	Y	TUCHA status - X indicates non-standard force description (JOPES)	Blank or X
20	SEA_POS_GEOLOC	VARC	4	Y	Seaport geoloc of delivery point for nonunit related general cargo	Valid on GEOLOCATION_CODE. GEOLOC_CODE
21	SEA_POS_CSC	VARC	2	Y	Country/state code of seaport delivery point for nonunit related general cargo	Valid on GEOLOCATION_CODE. COUNTRY_STATE_COD E
22	AIR_POS_GEOLOC	VARC	4	Y	Airport geoloc of delivery point for nonunit related general cargo and replacement personnel	Valid on GEOLOCATION_CODE. GEOLOC_CODE
23	AIR_POS_CSC	VARC	2	Y	Country/state code of airport delivery point for nonunit related general cargo and replacement personnel	Valid on GEOLOCATION_CODE. COUNTRY_STATE_COD E
24	POL_POS_GEOLOC	VARC	4	Y	Seaport geoloc of delivery point for nonunit related POL	Valid on GEOLOCATION_CODE. GEOLOC_CODE
25	POL_POS_CSC	VARC	2	Y	Country/state code of seaport delivery point for nonunit related POL	Valid on GEOLOCATION_CODE. COUNTRY_STATE_COD E
26	AMMO_POS_GEOLOC	VARC	4	Y	Seaport geoloc of delivery point for nonunit related ammunition	Valid on GEOLOCATION_CODE. GEOLOC_CODE
27	AMMO_POS_CSC	VARC	2	Y	Country/state code of seaport delivery point for nonunit related ammunition	Valid on GEOLOCATION_CODE. COUNTRY_STATE_COD E
28	FORCE_SELECT	NUMB	5	Y	Force select number - unique sequence number (JOPES)	Integer: 1 - 99999
29	CREATE_DATE	NUMB	6	Y	Date record was added to file - YYMMDD (JOPES)	System generated date
30	CHANGE_DATE	NUMB	6	Y	Date record last changed - YYMMDD (JOPES)	System generated date
31	CRITICAL_IND	VARC	1	Y	Critical employment indicator - nonblank indicates force is essential to the mission (JOPES)	Any alpha/numeric

Table name: ET_RLN (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
32	APPORTIONMENT_ID	VARC	2	Y	Apportionment ID - used for USAF packages (JOPES)	Any alpha/numeric
33	SERV_UNIQUE	VARC	1	Y	Service Unique Code - used for USAF packages (JOPES)	Any alpha/numeric
34	PRIMARY_PKG	VARC	3	Y	Primary package code - used for USAF packages (JOPES)	Any alpha/numeric
35	PRIMARY_PKG_UNIQUE	VARC	1	Y	Primary package unique code - used for USAF packages (JOPES)	Any alpha/numeric
36	SUB_PKG	VARC	2	Y	Sub package code - used for USAF packages (JOPES)	Any alpha/numeric
37	CAPABILITY	VARC	3	Y	Capability code - used for USAF packages (JOPES)	Any alpha/numeric
38	CAPABILITY_SPEC	VARC	5	Y	Capability specific code - used for USAF packages (JOPES)	Any alpha/numeric
39	OPTION_ID	VARC	3	Y	Option ID - used for USAF packages (JOPES)	Any alpha/numeric
40	SCHEDULE_STATUS_FLAG	VARC	1	Y	Schedule status flag for this RLN. Blank = NONE, A = Allocated ULN, B = ULN both Allocated and Manifested, definitions of C and S are to be determined, M = Manifested (only) ULN, T = ULN Pulled by USTRANSCOM (Only for AIR/AMC), V = Validated ULN, Z = LN was Manifested, but some fields may now be changed.	Alpha/Numeric: blank, A, B, C, M, S, T, V,or Z
41	PROBLEM_INDICATOR_FLAG	VARC	1	Y	Problem indicator for this RLN. Blank = NONE, E = ULN failed the Transportation Pre-Edit, N = ULN was manifested without prior allocation or allocated without prior validation, P = Problem detected by AMC, X = Problem detected by USTRANSCOM	Alpha/Numeric: blank, E, N, P, or X
42	RESERVED_NONBASE	VARC	30	Y	May be used for any command/user unique processing application (JOPES)	Any alpha/numeric

Table name: ET_RLN (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
43	MARRY_FLAG	NUMB	1	Y	0: No marry-up for unit, 1: RLN marries before delay, 2: RLN marries after delay	Numeric: 0, 1, 2
44	ORIGINAL_FIC	VARC	1	Y	Copy of FIC used to process ETPFDD during initial import from B8 file.	Any alpha/numeric

Table name: ET_RLN_DETAIL
Table Description: RLN Level 2-6 cargo detail
Dependent on: ETPFDD, ET_RLN, COMMODITY, ET_RLN_DETAIL
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	RLN	VARC	7	N	Requirement Line Number (JOPES)	Valid on ET_RLN.RLN
3	DETAIL_LEVEL	NUMB	1	N	Cargo detail level (2,3,4,5,6)	Integer: 2,3,4,5,6
4	CARGO_CATEGORY_CODE	VARC	3	N	Cargo category code as defined in JOPES or cargo size class	Valid combinations of JOPES defined 3 character codes or CCC, BLK, OVR, OUT, NAT
5	COMMODITY_NUM	NUMB	3	Y	Commodity number for the cargo	Valid on COMMODITY.COMMODITY_NUM
6	SUPPLY_CLASS_CODE	VARC	2	Y	Supply class code as defined in JOPES	Valid on JOPES defined codes
7	HEAVY_LIFT_CODE	VARC	1	Y	Heavy lift code as defined in JOPES	Valid on JOPES defined codes
8	DETAIL_SOURCE	VARC	2	Y	Source of the level 3/4/5/6 detail (T2/T3/T4-TUCHA, L2-TPFDD, N3-Nonunit, S3/S4-SRF, U3/4/5/6-User)	Alpha/Numeric in description list
9	AGG_SWITCH	VARC	1	Y	Denotes whether level 3 stons/sqft/mtons were summed from level 4 cargo detail (JOPES)	Alpha/numeric: 0, 1, NULL
10	CHANGE_DATE	NUMB	6	Y	Date record last changed - YYMMDD (JOPES)	System generated date
11	NUM_NEXT_LEVEL	NUMB	5	N	Number of records in the next detail level	Integer >= 0
12	DESCRIPTION	VARC	14	Y	Description of the equipment	Any alpha/numeric
13	LENGTH	NUMB	5	N	Length of equipment in inches	Integer >= 0
14	WIDTH	NUMB	5	N	Width of equipment in inches	Integer >= 0
15	HEIGHT	NUMB	5	N	Height of equipment in inches	Integer >= 0

Table name: ET_RLN_DETAIL (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
16	SQUARE_FEET	NUMB	10	N	Square footage of a single piece of equipment for levels 4-6; total for levels 2-3	Integer >= 0
17	MTONS	NUMB	8	N	Measurement tons of a single piece of equipment for levels 4-6; total for levels 2-3	Float >= 0
18	STONS	NUMB	9	N	Weight in short tons of a single piece of equipment for levels 4-6; total for levels 2-3	Float >= 0
19	NUM_PIECES	NUMB	3	N	Number of pieces of equipment	Integer >= 0
20	CARGO_ID	VARC	21	N	Unique cargo identifier for each record in the detail table	Any alpha/numeric
21	PARENT_CARGO_ID	VARC	21	Y	Unique cargo identifier of asset (i.e. container) this item is loaded inside for level 6	Valid on ET_RLN_DETAIL.CARGO_ID
22	PREV_LEVEL_CARGO_ID	VARC	21	Y	Unique cargo identifier for the previous detail level	Valid on ET_RLN_DETAIL.CARGO_ID

Table name: ET_RLN_MOVEMENT_PROJ
Table Description: Projected movements
Dependent on: ETPFDD, ET_PROJECTION, ET_RLN, ET_RLN_DETAIL, ET_RLN_PAX_POL, ET_LOCATION_CODES, GEOLOCATION_CODE
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	PROJECTION_NUM	NUMB	5	N	Unique number for the projection excursion	Valid on ET_PROJECTION.PROJECTION_NUM
3	RECORD_NUM	NUMB	9	N	Unique ID for this movement	Integer >= 1
4	RLN	VARC	7	N	Requirement Line Number (JOPES)	Valid on ET_RLN.RLN
5	CARGO_ID	VARC	21	N	Unique cargo identifier that is moving	Valid on ET_RLN_DETAIL.CARGO_ID or ET_RLN_PAX_POL.CARGO_ID
6	ORIG_LOCATION_CODE	VARC	3	Y	Starting location code	Valid on ET_LOCATION_CODES.LOCATION_CODE
7	ORIG_GEOLOC	VARC	4	Y	Starting location geoloc code	Valid on GEOLOCATION_CODE.GEOLOC_CODE
8	ORIG_CSC	VARC	2	Y	Starting location country/state code	Valid on GEOLOCATION_CODE.COUNTRY_STATE_CODE
9	DEST_LOCATION_CODE	VARC	3	Y	Ending location code	Valid on ET_LOCATION_CODES.LOCATION_CODE
10	DEST_GEOLOC	VARC	4	Y	Ending location geoloc code	Valid on GEOLOCATION_CODE.GEOLOC_CODE
11	DEST_CSC	VARC	2	Y	Ending location country/state code	Valid on GEOLOCATION_CODE.COUNTRY_STATE_CODE
12	ONLOAD_TIME	NUMB	6	Y	Day CARGO_ID completed onloading at the origin	Float: -100 to 999
13	OFFLOAD_TIME	NUMB	6	Y	Day CARGO_ID completed offloading at the destination	Float: -100 to 999

Table name: ET_RLN_MOVEMENT_PROJ (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
14	DELAY_END_TIME	NUMB	6	Y	Day CARGO_ID completed delay	Float: -100 to 999
15	MARRY_UP_TIME	NUMB	6	Y	Day CARGO_ID completed marry-up	Float
16	STONS	NUMB	9	N	Weight in short tons for the portion of the CARGO_ID that is moving (level 2/3 split moves only)	Float >= 0
17	CBBLS	NUMB	7	N	POL in CBBLS for the portion of the CARGO_ID that is moving (level 2/3 split moves only)	Integer >= 0
18	PAX	NUMB	7	Y	Number of PAX moving	Integer >= 0
19	LEVEL4_NUM_PIECES	NUMB	3	Y	Number of pieces of CARGO_ID on this vehicle	Integer >= 0
20	VEHICLE_ID	VARC	17	Y	Unique identifier for the vehicle this CARGO_ID is loaded on (ship, a/c, flatbed, railcar, etc.)	Any alpha/numeric
21	VEHICLE_NAME	VARC	61	Y	Name of the vehicle this CARGO_ID is loaded on	Any alpha/numeric
22	VEHICLE_MODE	VARC	1	Y	Mode of the vehicle (sea, air, road, rail, water, pipeline, helo)	Alpha: S, A, R, I, S, P, H
23	VEHICLE_TRIP_NUM	NUMB	3	Y	Unique number to denote multiple trips of the vehicle	Integer >= 0
24	VEHICLE_STOP_NUM	NUMB	3	Y	Unique number to denote multiple stops of the vehicle	Integer >= 0
25	DEPART_TIME	NUMB	6	Y	Day vehicle departed the origin	Float: -100 to 999
26	ARRIVE_TIME	NUMB	6	Y	Day vehicle arrived at the destination	Float: -100 to 999
27	VEHICLE_GROUP_ID	VARC	17	Y	Unique identifier for the vehicle group this vehicle is part of (land moves only via trains, convoys, serials)	Any alpha/numeric

Table name: ET_RLN_MOVEMENT_REQ
Table Description: Required movements
Dependent on: ETPFDD, ET_LOCATION_NAMES, ET_RLN, GEOLOCATION_CODE, ET_RLN_GROUP
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	RLN	VARC	7	N	Requirement Line Number (JOPES)	Valid on ET_RLN.RLN
3	LEG	VARC	1	N	Movement leg (O-origin, S-strategic, T-theater)	Alpha: O, S, T
4	MOVEMENT_SEQ_NUM	NUMB	2	Y	Movement sequence number which denotes order of movements	Integer >= 1
5	LOCATION_CODE	VARC	3	N	Location code	Valid on ET_LOCATION_NAMES.LOCATION_CODE
6	LOCATION_GEOLOC	VARC	4	Y	Location geoloc code	Valid on GEOLOCATION_CODE.GEOLOC_CODE
7	LOCATION_CSC	VARC	2	Y	Location country/state code	Valid on GEOLOCATION_CODE.COUNTRY_STATE_CODE
8	ALT_LOC_GEOLOC	VARC	4	Y	Alternate location geoloc code	Valid on GEOLOCATION_CODE.GEOLOC_CODE
9	ALT_LOC_CSC	VARC	2	Y	Alternate location country/state code	Valid on GEOLOCATION_CODE.COUNTRY_STATE_CODE
10	EARLIEST_DAY	NUMB	6	Y	Earliest day	Integer: -100 to 999
11	REQUIRED_DAY	NUMB	6	Y	Required day	Integer: -100 to 999
12	POD_EDD	NUMB	6	Y	JOPES computed earliest delivery day at the POD (POD dest only)	Integer: -100 to 999
13	POD_FAD	NUMB	6	Y	JOPES computed feasible arrival day at the POD (POD dest only)	Integer: -100 to 999
14	POD_PROJ_DAYS_LATE	NUMB	2	Y	JOPES computed projected number of days late at the POD (POD dest only)	Integer >= 0

Table name: ET_RLN_MOVEMENT_REQ (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
15	PREF_MODE_SOURCE	VARC	2	Y	Preferred transportation mode and source to location as defined in JOPES	Valid on JOPES defined codes
16	MODEL_MODE	VARC	2	Y	Model transportation mode code to location (R-Road, I-rail, S-water, P-pipeline, A-air, H-helo, RL-road linehaul, RD-road direct delivery, Z-in place, X-no move)	Alpha: R,I,S,P,A,H,RL,RD,Z,X
17	MODEL_SOURCE	VARC	2	Y	Model transportation source code to location (A-any, S-self, H-host nation, M-military, C-commercial)	Alpha: A,S,H,M,C
18	LOCATION_STOP	VARC	1	Y	Location of ILOC (A = OCONUS, B = Strategic, C = CONUS)	Alpha: A, B, C
19	PRIORITY	VARC	3	Y	Desired sequence of units arriving at POD	Integer >= 0
20	PRIORITY_ADD_ON	VARC	1	Y	Used to insert a unit into the priority sequence (POD dest only)	Any alpha/numeric
21	DELAY	NUMB	6	Y	Number of days delay to location	Integer >= 0
22	DELAY_TYPE	VARC	1	Y	Type of delay (F=fraction of the force delayed, T=total force delayed)	Alpha: F or T
23	DELAY_REASON	VARC	1	Y	Reason for delay, used for non-unit records only	Valid on JOPES defined codes
24	DISCHARGE_CONST	VARC	2	Y	Discharge constraint as defined in JOPES	Valid on JOPES defined codes
25	LOAD_CONFIG	VARC	1	Y	Load configuration code as defined in JOPES	Valid on JOPES defined codes
26	MARRY_FLAG	NUMB	1	Y	0: No marry-up for unit, 1: RLN marries before delay, 2: RLN marries after delay	Integer: 0, 1, or 2
27	ASSEMBLY_FORCE_MODULE	VARC	7	Y	Force module ID that generates assembly requirement. NULL if no assembly required. Note, only one force module may specify any given RLN to assemble.	Valid on ET_RLN_GROUP.GROUP_ID

Table name: ET_RLN_PAX_POL
Table Description: RLN PAX and POL detail
Dependent on: ETPFDD, COMMODITY, ET_RLN
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	RLN	VARC	7	N	Requirement Line Number (JOPES)	Valid on ET_RLN.RLN
3	CARGO_CATEGORY_CODE	VARC	3	N	Cargo category code as defined in JOPES and PAX, POL	Valid on JOPES codes and PAX, POL
4	COMMODITY_NUM	NUMB	3	Y	Commodity number for the cargo_id	Valid on COMMODITY.COMMODITY_NUM
5	SUPPLY_CLASS_CODE	VARC	2	Y	Fuel type code as defined in JOPES	Valid on JOPES codes
6	FUEL_TYPE_CODE	VARC	3	Y	Fuel type code as defined in JOPES	Valid on JOPES codes
7	CHANGE_DATE	NUMB	6	Y	Date record last changed - YYMMDD (JOPES)	Any valid date
8	CBBLS	NUMB	7	N	Bulk POL (excluding packaged POL) in hundreds of barrels	Integer >= 0
9	PAX	NUMB	7	N	Personnel requiring non-organic transportation	Integer >= 0
10	CARGO_ID	VARC	21	N	Unique cargo identifier for each record in the table	Any alpha/numeric
11	DETAIL_SOURCE	VARC	2	Y	Source of the level 3/4/5/6 detail (T2/T3/T4-TUCHA, L2-TPFDD, N3-Nonunit, S3/S4-SRF, U3/4/5/6-User)	Alpha/Numeric in description list

Table name: ET_SUPPORTS
Table Description: RLNs assigned to support other RLNs
Dependent on: ETPFDD, ET_RLN
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD (from ETPFDD table)	Valid on ETPFDD.ETPFDD_NUM
2	RLN_SUPPORTED	VARC	7	N	RLN being supported	Valid on ET_RLN.RLN
3	RLN_SUPPORTING	VARC	7	N	RLN providing support	Valid on ET_RLN.RLN

Table name: ET_UNIT
Table Description: Force Module summary movement information for the Unit Viewer
Dependent on: ETPFDD, ET_PROJECTON, ER_GROUP
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Number of TPFDD unit is associated with	Valid on ETPFDD.ETPFDD_NUM
2	PROJECTION_NUM	NUMB	5	N	Number of projection unit is associated with, 999 means no projection, it is for requirements	Valid on ET_PROJECTION.PROJECTION_NUM or 999
3	UNIT_ID	VARC	7	N	ID of unit, FM of ETPFDD	Valid on ET_GROUP.GROUP_ID
4	UE_STONS	NUMB	9	Y	Total st of unit	Float >= 0
5	PAX	NUMB	7	Y	Total pax of unit	Integer >= 0
6	RESUPPLY_CBBLS	NUMB	7	Y	Total CBBLs of unit resupply POL	Integer >= 0
7	RESUPPLY_STONS	NUMB	9	Y	Total resupply st for unit	Float >= 0

Table name: ET_UNIT_LOCATION
Table Description: Records to show which units are where at what time
Dependent on: ETPFDD, ET_PROJECTION, ET_GROUP, ET_LOCATION_NAMES, GEOLOCATION_CODE
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Number of TPFDD unit is associated with	Valid on ETPFDD.ETPFDD_NUM
2	PROJECTION_NUM	NUMB	5	N	Number of projection unit is associated with, 999 means no projection, it is for requirements	Valid on ET_PROJECTION.PROJECTION_ID or 999
3	UNIT_ID	VARC	7	N	ID of unit, FM of ETPFDD	Valid on ET_GROUP.GROUP_ID
4	STATUS_TIME	NUMB	6	N	Time (Day) of unit location	Float
5	STATUS_COLOR	VARC	20	Y	Color (status) of unit at this time	Color Name or RGB values
6	LOCATION_CODE	VARC	3	N	Location code of unit (e.g., ORG, POE, POD, DST)	Valid on ET_LOCATION_NAMES.LOCATION_CODE
7	LOCATION_GEOLOC	VARC	4	Y	GEOLOC unit is at	Valid on GEOLOCATION_CODE.GEOLOC.CODE
8	LATITUDE	NUMB	6	N	Latitude in decimal degrees the unit is located at. Datum is WGS84	Float: -90.00 to 90.00
9	LONGITUDE	NUMB	7	N	Longitude in decimal degrees the unit is located at. Datum is WGS84	Float: -180.00 to 180.00
10	IS_AIR	NUMB	1	Y	Is this location an air route (1 = yes, 0 = no)	Boolean: 0 or 1
11	IS_PRIMARY	NUMB	1	Y	Is this the primary/forward location? (1 = yes, 0 = no)	Boolean: 0 or 1

Table name: ET_UNIT_STATUS
Table Description: Records to show closure of units over time
Dependent on: ETPFDD, ET_PROJECTION, ET_GROUP, ET_LOCATION_NAMES, GEOLOCATION_CODE
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Number of TPFDD unit is associated with	Valid on ETPFDD.ETPFDD_NUM
2	PROJECTION_NUM	NUMB	5	N	Number of projection unit is associated with, 999 is requirements only	Valid on ET_PROJECTION.PROJECTION_NUM or 999
3	UNIT_ID	VARC	7	N	ID of unit, FM of ETPFDD	Valid on ET_GROUP.GROUP_ID
4	STATUS_MODE	NUMB	1	Y	Status mode (Air, Sea, Road, Rail, Pipeline)	Alpha: A, S, R, I, P
5	STATUS_TIME	NUMB	6	N	Time of unit status	Integer
6	LOCATION_CODE	VARC	3	N	Code of the location, e.g., ORG, POE, POD, DST	Valid on ET_LOCATION_NAMES.LOCATION_CODE
7	LOCATION_GEOLOC	VARC	4	Y	GEOLOC of the location	Valid on GEOLOCATION_CODE.GEOLOC_CODE
8	EN_UE_STONS	NUMB	9	Y	Unit Equipment STONs enroute to this location	Float >= 0
9	ARR_UE_STONS	NUMB	9	Y	Unit Equipment STONs at this location	Float >= 0
10	EN_PAX	NUMB	7	Y	PAX enroute to this location	Integer >= 0
11	ARR_PAX	NUMB	7	Y	PAX at this location	Integer >= 0
12	EN_RESUPPLY_CBBLS	NUMB	7	Y	POL Resupply CBBLs enroute to this location	Integer >= 0
13	ARR_RESUPPLY_CBBLS	NUMB	7	Y	POL Resupply CBBLs at this location	Integer >= 0
14	EN_RESUPPLY_STONS	NUMB	9	Y	Resupply STONs enroute to this location	Float >= 0
15	ARR_RESUPPLY_STONS	NUMB	9	Y	Resupply STONs at this location	Float >= 0

Table name: ET_VEHICLE_GROUP_PROJ
Table Description: Vehicle group characteristics (trains, convoys, and serials)
Dependent on: ETPFDD, ET_PROJECTION
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	ETPFDD_NUM	NUMB	5	N	Unique number for the TPFDD	Valid on ETPFDD.ETPFDD_NUM
2	PROJECTION_NUM	NUMB	5	N	Unique identifier for the projection excursion	Valid on ET_PROJECTION.PROJECTION_NUM
3	VEHICLE_GROUP_ID	VARC	17	N	Unique identifier for the group (system generated)	Any alpha/numeric
4	VEHICLE_GROUP_TRIP_NUM	NUMB	3	N	Unique number to denote multiple trips (system generated)	Integer >= 0
5	VEHICLE_GROUP_NAME	VARC	40	Y	Name/description of the vehicle group	Any alpha/numeric
6	VEHICLE_GROUP_MODE	VARC	1	Y	Mode of the vehicle group(Air, Sea, Road, Rail, Pipeline)	Alpha: A, S, R, I, P
7	LENGTH	NUMB	7	N	Length in inches of the vehicle group	Integer >= 0
8	WIDTH	NUMB	7	N	Width in inches of widest vehicle in the group	Integer >= 0
9	HEIGHT	NUMB	7	N	Height in inches of tallest vehicle in the group	Integer >= 0
10	STONS	NUMB	9	N	Weight in short tons of heaviest vehicle in the group	Float >= 0

Table name: FOLDER
Table Description: Folder Names
Dependent on: N/A
Data Source: ETPFDD
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	FOLDER_NUM	NUMB	5	N	Unique number for the folder (system generated)	Integer >= 1
2	FOLDER_NAME	VARC	40	N	Name of the folder (user entered - PACOM, CENTCOM, etc.)	Any alpha/numeric

Table name: GEOLOC
Table Description: Sets of GEOLOCs
Dependent on: N/A
Data Source: ETPFDD
Static vs Dynamic: Quarterly Update

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	GEOLOC_NUM	NUMB		N	The number of the geoloc set	Integer >= 1
2	NAME	VARC	40	N	The name of the geoloc set	Any alpha/numeric
3	CREATE_DATE	DATE	7	Y	The date the data set was created	Any valid date
4	LOAD_DATE	DATE	7	Y	The date the data set was loaded (system-generated)	Any valid date

Table name: GEOLOC_CODE
Table Description: Sets of GEOLOCs
Dependent on: GEOLOC, COUNTRY, GELOCATION_CODE
Data Source: ETPFDD
Static vs Dynamic: Dynamic and quarterly updates

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	GEOLOC_NUM	NUMB		N	The number of the geoloc set	Valid on GEOLOC.GEOLOC_NUM
2	GEOLOC_CODE	VARC	4	N	The unique identifier for each location	Any alpha/numeric
3	LOCATION_NAME	VARC	17	Y	The name of the location	Any alpha/numeric
4	INSTALLATION_TYPE_CODE	VARC	3	Y	Installation type code as defined in JOPES	Valid on JOPES codes
5	COUNTRY_STATE_CODE	VARC	2	Y	Country/state code	Valid on COUNTRY.ID
6	COUNTRY_STATE_SHORT_NAME	VARC	5	Y	Country/state short name	Any alpha/numeric
7	COUNTRY_STATE_LONG_NAME	VARC	15	Y	Country/state long name	Any alpha/numeric
8	PROVINCE_CODE	VARC	3	Y	Province code	Any alpha/numeric
9	PROVINCE_NAME	VARC	14	Y	Province name	Any alpha/numeric
10	LATITUDE	NUMB	6	N	Latitude in decimal degrees the unit is located at. Datum is WGS84	Float: -90.00 to 90.00
11	LONGITUDE	NUMB	7	N	Longitude in decimal degrees the unit is located at. Datum is WGS84	Float: -180.00 to 180.00
12	LOGISTIC_PLANNING_CODE	VARC	2	Y	Logistic planning code as defined in JOPES	Valid on JOPES codes
13	PRIME_GEOLOC_CODE	VARC	4	Y	Prime geoloc code	Valid on GEOLOCATION_CODE.GEOLOC_CODE
14	RECORD_OWNER_UIC	VARC	6	Y	UIC of record owner	Any alpha/numeric
15	CIVIL_AVIATION_CODE	VARC	4	Y	Civil aviation code	Any alpha/numeric
16	GSA_STATE_CODE	VARC	2	Y	GSA state code	Any alpha/numeric
17	GSA_CITY_CODE	VARC	4	Y	GSA city code	Any alpha/numeric
18	GSA_COUNTY_CODE	VARC	3	Y	GSA county code	Any alpha/numeric
19	IS_REFERENCE	NUMB	1	Y	1 if from geofile, 0 if user entered	Boolean: 0 or 1

Table name: PROJECTION_OPERATION
Table Description: Operations possible for updating a projection
Dependent on: N/A
Data Source: ETPFDD
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	OPERATION_NUM	NUMB	4	N	Identification and sequencing of operation	Integer >= 1
2	STEP_NUM	NUMB	2	N	Sub-operation ordinal	Integer >= 1
3	NAME	VARC	40	N	Name of operation and sub-operation	Any alpha/numeric

Table name: SEALINE
Table Description: Defines network ocean lines to be used in distance calculations. No network links may intersect any of the lines defined for the network.
Dependent on: N/A
Data Source: MIDAS
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LINE_NUM	NUMB	3	N	Unique identifying number for the line.	Integer >= 0
2	LAT1	NUMB	4	N	Latitude of point 1 defining the line in decimal degrees.	Float: -90.00 to 90.00
3	LON1	NUMB	5	N	Longitude of point 1 defining the line in decimal degrees.	Float: -180.00 to 180.00
4	LAT2	NUMB	4	N	Latitude of point 2 defining the line in decimal degrees.	Float: -90.00 to 90.00
5	LON2	NUMB	5	N	Longitude of point 2 defining the line in decimal degrees.	Float: -180.00 to 180.00
6	SLOPE	NUMB	7	Y	Line Slope	Not Used
7	INTERCEPT	NUMB	8	Y	Line Intercept	Not Used
8	NAME	VARC	25	Y	Name identifying the line.	Any Alpha/numeric

Table name: SEALINK
Table Description: Defines the network ocean links used in distance calculations.
Dependent on: SEANODE
Data Source: MIDAS
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LINK_NUM	NUMB	5	N	A unique identifier for the link.	Integer >= 1
2	NODE1_NUM	NUMB	4	N	Node number of one end of the link.	Valid on SEANODE.NODE_NUM
3	NODE2_NUM	NUMB	4	N	Node number of the other end of the link.	Valid on SEANODE.NODE_NUM
4	LENGTH	NUMB	5	N	Distance between the nodes in nautical miles.	Integer >= 0
5	NAME	VARC	17	Y	Name of the link.	Any alpha/numeric
6	NODE1_NAME	VARC	17	Y	Name of the node at one end of the link.	Valid on SEANODE.NAME
7	NODE2_NAME	VARC	17	Y	Name of the node at the other end of the link.	Valid on SEANODE.NAME

Table name: SEANODE
Table Description: Defines the oceanic network nodes used in distance calculations.
Dependent on: N/A
Data Source: MIDAS
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NODE_NUM	NUMB	4	N	Unique identifier for the node.	Integer >= 1
2	LATITUDE	NUMB	6	N	Latitude of the node in decimal degrees.	Float: -90.00 to 90.00
3	LONGITUDE	NUMB	7	N	Longitude of the node in decimal degrees.	Float: -180.00 to 180.00
4	NAME	VARC	17	Y	Name of the node.	Any alpha/numeric

Table name: TUCHA
Table Description: TUCHA Header Information
Dependent on: N/A
Data Source: ETPFDD
Static vs Dynamic: Quarterly Update

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TUCHA_NUM	NUMB	5	N	Unique number for this version of the TUCHA file (system generated)	Integer >= 1
2	TUCHA_NAME	VARC	40	N	User-entered description for this TUCHA file	Any alpha/numeric
3	CREATE_DATE	DATE	7	N	Date of this version of the TUCHA file	Any valid date
4	LOAD_DATE	DATE	7	N	Date this TUCHA file was loaded to the database (system generated)	Any valid date

Table name: TUCHA_DETAIL
Table Description: TUCHA Level 2-4 cargo detail
Dependent on: TUCHA
Data Source: ETPFDD
Static vs Dynamic: Quarterly Updates

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TUCHA_NUM	NUMB	5	N	Unique number for this version of the TUCHA file (from TUCHA table)	Valid on TUCHA.TUCHA_NUM
2	UTC	VARC	5	N	Unit Type Code	Any alpha/numeric
3	DETAIL_LEVEL	NUMB	1	N	Cargo detail level (2,3,4)	Numeric: 2, 3, or 4
4	CARGO_CATEGORY_CODE	VARC	3	N	Cargo category code as define in JOPES or cargo size class (BLK, OVR, OUT, NAT)	Alpha/Numeric:BLK, OVR, OUT, NAT, or defined JOPES codes
5	HEAVY_LIFT_CODE	VARC	1	Y	Heavy lift code as defined in JOPES	Valid on JOPES codes
6	SECURITY_CLASS	VARC	1	Y	Security classification code (u=unclassified, c=confidential, s=secret, and t=top secret)	Alpha: u,c,s,t
7	TUDET_FLAG	VARC	1	Y	TUCHA detail flag - an internal processing control field used by the TUCHA maintenance processor.	Valid on JOPES codes
8	AGG_SWITCH	VARC	1	Y	Denotes whether level 3 stons/sqft/mtons were summed from the level 4 cargo detail (JOPES) (0=No and 1=Yes)	Boolean: 0 or 1
9	NUM_NEXT_LEVEL	NUMB	5	N	Number of records in the next detail level	Integer >= 0
10	DETAIL_NUM	NUMB	3	N	Unique number for each detail record	Integer >= 0
11	DESCRIPTION	VARC	14	Y	Description of the equipment	Any alpha/numeric
12	LENGTH	NUMB	5	N	Length of equipment in inches	Integer >= 0
13	WIDTH	NUMB	5	N	Width of equipment in inches	Integer >= 0
14	HEIGHT	NUMB	5	N	Height of equipment in inches	Integer >= 0

Table name: TUCHA_DETAIL (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
15	SQUARE_FEET	NUMB	10	N	Square footage of a single piece of equipment for-level 4; total for levels 2-3	Integer >= 0
16	MTONS	NUMB	8	N	Measurement tons of a single piece of equipment for level 4; total for levels 2-3	Float >= 0
17	STONS	NUMB	9	N	Weight in short tons of a single piece of equipment level 4; total for levels 2-3	Float >= 0
18	NUM_PIECES	NUMB	3	N	Number of pieces of equipment	Integer >= 0

Table name: TUCHA_REPLACEMENTS
Table Description: TUCHA Replacement UTCs
Dependent on: TUCHA
Data Source: ETPFDD
Static vs Dynamic: Quarterly Updates

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TUCHA_NUM	NUMB	5	N	Unique number for this version of the TUCHA file (from TUCHA table)	Valid on TUCHA.TUCHA_NUM
2	UTC	VARC	5	N	Unit Type Code	Any alpha/numeric
3	UTC_REPLACE	VARC	5	N	UTC being replaced or replacement UTC based on REPLACE_FLAG	Any alpha/numeric
4	REPLACE_SHORT_NAME	VARC	15	Y	Short name for UTC_REPLACE	Any alpha/numeric
5	REPLACE_FLAG	VARC	1	Y	R - REPLACE_UTC is replacer, E - REPLACE_UTC is replacee	Alpha: R or E

Table name: TUCHA_UTC
Table Description: TUCHA Unit Type Information
Dependent on: TUCHA
Data Source: ETPFDD
Static vs Dynamic: Quarterly Updates

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TUCHA_NUM	NUMB	5	N	Unique number for this version of the TUCHA file (from TUCHA table)	Valid on TUCHA.TUCHA_NUM
2	UTC	VARC	5	N	Unit Type Code	Any alpha/numeric
3	ULC	VARC	3	Y	Unit Level Code as defined in JOPES	Valid on defined JOPES codes
4	UTC_NAME	VARC	54	Y	UTC name	Any alpha/numeric
5	UTC_SHORT_NAME	VARC	15	Y	Short UTC name	Any alpha/numeric
6	SERVICE	VARC	1	Y	Service code as defined in JOPES	Valid on JOPES codes
7	DEPLOY_IND_CODE	VARC	1	Y	Deployment indicator code as defined in JOPES	Valid on JOPES codes
8	SECURITY_CLASS	VARC	1	Y	Security classification code of record (u=unclassified, c=confidential, s=secret, and t=top secret)	Alpha: u,c,s,t
9	UTC_STATUS	VARC	1	Y	UTC status (A-active, C-cancelled)	Alpha: A or C
10	ORIGINATOR_UIC	VARC	6	Y	UIC for source of the record	Any alpha/numeric
11	AUTH_PERS	NUMB	5	Y	Authorized wartime personnel strength	Integer >= 0
12	PAX	NUMB	7	N	Personnel requiring non-organic transportation	Integer >= 0
13	CBBLS	NUMB	7	N	Bulk POL (excluding packaged POL) in hundreds of barrels	Integer >= 0
14	RECORD_INDICATOR	VARC	1	Y	Record indicator - indicates completeness of the UTC. A value of "space" denotes a compete UTC. V indicates F1 record missing. X indicates F2 or F3 record counts differ. Y indicates more PAX than authorized personnel. Z indicates X and Y. W indicates V and X.	Alpha: blank, V, X, Y, Z, W

Table name: TUCHA_UTC (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
15	REFERENCE_DOC	VARC	19	Y	Reference document	Any alpha/numeric
16	REPLACER_UTC	VARC	5	Y	UTC that this record replaces	Any alpha/numeric
17	UTC_CREATE_DATE	DATE	7	Y	Date UTC created and added as record to the TUCHA file	Any valid date
18	CHANGE_DATE	DATE	7	Y	Date record last changed as recorded in TUCHA file	Any valid date

Table name: VEHICLE_AIRCRAFT
Table Description: Fixed wing and rotary wing
Dependent on: N/A
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TYPE	VARC	30	N	Type of aircraft	Any alpha/numeric
2	PARKINGTYPE	CHAR	1	N	W(ide), N(arrow), S(mall), R(otary wing)	Alpha: W, N, S, R
3	WEIGHTCAPACITY	NUMB		N	Weight capacity (st)	Float >= 0
4	PAXCAPACITY	NUMB		N	Personnel capacity	Float >= 0
5	CONTAINERCAPACITY	NUMB		N	Personnel capacity	Float >= 0
6	ONLOADTIME	NUMB		N	Time necessary to load (hours)	Float >= 0
7	OFFLOADTIME	NUMB		N	Time necessary to unload (hours)	Float >= 0
8	ENROUTETIME	NUMB		N	Enroute time in hours	Float >= 0
9	EXPEDITEDTIME	NUMB	5	N	Expedited time in hours	Float >= 0
10	RECOVERYTIME	NUMB	5	N	Recovery time in hours	Float >= 0
11	FUELTIME	NUMB	5	N	Time necessary to fuel up in hours	Float >= 0
12	FUELCAPACITY	NUMB		N	Fuel capacity in gallons	Float >= 0
13	NAUTICALAIR	NUMB		N	Nautical Air Miles per Gallon	Float > 0
14	USERATE	NUMB		Y	USE Rate in hours/day.	Integer >= 0
15	DEFAULTAVAIL	NUMB		N	Default % Availability	Float 0-100
16	STRATUSABLE	NUMB	1	N	1 - Strat Usable Aircraft, 0 - Theater use only	Boolean: 0 or 1
17	LIN	VARC	6	Y	Line Item Number for this vehicle	Any alpha/numeric
18	DOORHEIGHT	NUMB		N	Height of open door in inches	Float >= 0
19	DOORWIDTH	NUMB		N	Width of open door in inches	Float >= 0
20	CARGOBAYWIDTH	NUMB		N	Width of cargo area in inches	Float >= 0
21	CARGOBAYLENGTH	NUMB		N	Length of cargo area in inches	Float >= 0
22	BLOCKSPEED500	NUMB		N	Ave speed in naut mi/hr for trip <= 500 nautical miles	Float >= 0

Table name: VEHICLE_AIRCRAFT (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
23	BLOCKSPEED1000	NUMB		N	Ave speed in naut mi/hr for trip <= 1000 nautical miles	Float >= 0
24	BLOCKSPEED1500	NUMB		N	Ave speed in naut mi/hr for trip <= 1500 nautical miles	Float >= 0

Table name: VEHICLE_MATCHING
Table Description: Matches of tractors and the trailers they can pull
Dependent on: VEHICLE_TRACTOR, VEHICLE_TRAILER
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TRACTORTYPE	VARC	30	N	Type of tractor	Valid on VEHICLE_TRACTOR.TYPE
2	TRAILERTYPE	VARC	30	N	Type of trailer	Valid on VEHICLE_TRAILER.TYPE

Table name: VEHICLE_RAILCAR
Table Description: Rail Car attributes
Dependent on: N/A
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TYPE	VARC	30	N	Type of railcar	Any alpha/numeric
2	WEIGHTCAPACITY	NUMB		N	Capacity (st)	Float >= 0
3	POLCAPACITY	NUMB		N	Capacity (gal)	Integer >= 0
4	CONTAINERCAPACITY	NUMB		N	Capacity for containers (num of containers)	Integer >= 0
5	PAXCAPACITY	NUMB		N	Personnel capacity	Integer >= 0
6	CARGOWIDTH	NUMB		N	Width of Cargo Area (in)	Float >= 0
7	CARGOLENGTH	NUMB		N	Length of Cargo Area (in)	Float >= 0
8	NUMLEVELS	NUMB		N	Number of levels	Float >= 0
9	GAUGE	NUMB		N	Gauge	Float >= 0
10	ONLOADTIME	NUMB		N	Time necessary to load (hours)	Float >= 0
11	OFFLOADTIME	NUMB		N	Time necessary to unload (hours)	Float >= 0
12	DEFAULTAVAIL	NUMB		N	Default % Availability of vehicle	Float: 0-100
13	LIN	VARC	6	Y	Line Item Number for this vehicle	Any alpha/numeric

Table name: VEHICLE_SHIP
Table Description: Ship attributes
Dependent on: N/A
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NISC	VARC	6	Y	NISC	Any alpha/numeric
2	NAME	VARC	30	Y	Name of ship	Any alpha/numeric
3	SHIPTYPE	VARC	30	N	Type of ship	Any alpha/numeric
4	LENGTH	NUMB		N	Length of the ship (feet)	Float >= 0
5	BEAM	NUMB		N	Beam of ship (feet)	Float >= 0
6	DRAFT	NUMB		N	Draft of ship (feet)	Float >= 0
7	NUMCRANES	NUMB		N	Number of cranes	Integer >= 0
8	NUMWORKINGCRANES	NUMB		N	Number of cranes that can work this ship at once	Integer >= 0
9	CONTAINERCAPACITY	NUMB		N	Container capacity in number of containers	Integer >= 0
10	ROROCAPACITY	NUMB		N	RORO capacity in sq ft	Integer >= 0
11	BREAKBULKCAPACITY	NUMB		N	Breakbulk capacity in mt	Float >= 0
12	TANKERCAPACITY	NUMB		N	Tanker capacity in cbbl	Float >= 0
13	RATEMARCH	NUMB		N	Rate of March in mph	Float > 0
14	DEFAULTAVAIL	NUMB		N	Default % Availability of vehicle	Float: 0-100
15	STRATUSABLE	NUMB	1	N	1 - usable for strat moves; 0 - only usable for theater moves	Boolean: 0 or 1
16	LIN	VARC	6	Y	Line Item Number for this vehicle	Any alpha/numeric
17	LLOYDS	VARC	8	Y	Unique Lloyds of London ship ID	Any alpha/numeric
18	ROROONLOADRATE	NUMB		Y	Number of vehicles that can be loaded on to this ship in a day.	Integer >= 0
19	ROROOFFLOADRATE	NUMB		Y	Number of vehicles that can be offloaded from this ship in a day.	Integer >= 0
20	APRONWIDTHRQDFORRORO	NUMB	3	Y	The width, in feet, of the apron required for this ship to off load vehicles	Integer >= 0

Table name: VEHICLE_SHIP_HOLD
Table Description: Ship hold attributes
Dependent on: N/A
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SHIPTYPE	VARC	30	N	Type of ship	Any alpha/numeric
2	HOLD	VARC	30	N	Name of the hold	Any alpha/numeric
3	DECK	VARC	30	N	Name of the deck	Any alpha/numeric
4	DECK_STRENGTH	NUMB		Y	Strength of the deck (PSI)	Float >= 0
5	BOOM_CAPACITY	NUMB		Y	Capacity of the boom (st)	Float >= 0
6	DECK_HEIGHT_INCHES	NUMB		Y	Total height of the deck (inches)	Float >= 0
7	DECK_HEIGHT_FEET	VARC	30	Y	Total height of the deck (ft)	Float >= 0
8	AREA	NUMB		Y	area of the deck (sq ft)	Float >= 0

Table name: VEHICLE_SHIP_HOLD_DIMENSION
Table Description: Ship hold attributes
Dependent on: VEHICLE_SHIP_HOLD
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SHIPTYPE	VARC	30	N	type of ship	Valid on VEHICLE_SHIP_HOLD .SHIPTYPE
2	HOLD	VARC	30	N	name of the hold	Any alpha/numeric
3	DECK	VARC	30	N	name of the deck	Any alpha/numeric
4	DIMENSION	VARC	30	Y	character description of dimension of the hold	Any alpha/numeric
5	HATCH_WIDTH	NUMB		Y	width of hatch in inches	Integer >= 0
6	HATCH_LENGTH	NUMB		Y	length of hatch in inches	Integer >= 0

Table name: VEHICLE_SHIP_HOLD_NAME
Table Description: Ship hold names
Dependent on: VEHICLE_SHIP_HOLD
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	SHIPTYPE	VARC	30	N	type of ship	Valid on VEHICLE_SHIP_HOLD .SHIPTYPE
2	SHIPNAME	VARC	30	N	name of ship	Any alpha/numeric
3	CLASS	VARC	30	Y	class of ship	Any alpha/numeric
4	LOCATION	VARC	30	Y	original location of ship	Any alpha/numeric

Table name: VEHICLE_TRACTOR
Table Description: Tractor attributes
Dependent on: N/A
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TYPE	VARC	30	N	Type of tractor	Any alpha/numeric
2	RATEMARCH	NUMB		N	Rate of march	Float > 0
3	DEFAULTAVAIL	NUMB		N	Default % Availability of vehicle	Float: 0-100
4	CURBWEIGHT	NUMB		N	Empty Weight of the Tractor	Float >= 0
5	MILITARY	NUMB	1	N	1 - Military Tractor, 0 - Commercial Tractor	Boolean: 0 or 1
6	LIN	VARC	6	Y	Line Item Number for this vehicle	Any alpha/numeric

Table name: VEHICLE_TRAILER
Table Description: Trailer attributes
Dependent on: N/A
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TYPE	VARC	30	N	Type of trailer	Any alpha/numeric
2	WEIGHTCAPACITY	NUMB	5	N	Weight capacity (st)	Float >= 0
3	POLCAPACITY	NUMB		N	POL capacity (gal)	Integer >= 0
4	CONTAINERCAPACITY	NUMB		N	Capacity for containers (num of containers)	Integer >= 0
5	CARGOWIDTH	NUMB		N	Width of Cargo Area (in)	Float >= 0
6	CARGOLENGTH	NUMB		N	Length of Cargo Area (in)	Float >= 0
7	BEDHEIGHT	NUMB		N	Height of trailer bed (in)	Float >= 0
8	CURBWEIGHT	NUMB		N	Curb weight (st)	Float >= 0
9	ONLOADTIME	NUMB		N	Time necessary to load (hours)	Float >= 0
10	OFFLOADTIME	NUMB		N	Time necessary to unload (hours)	Float >= 0
11	DEFAULTAVAIL	NUMB		N	Default % Availability of vehicle	Float: 0-100
12	MILITARY	NUMB	1	Y	1 - Military Tractor, 0 - Commercial Tractor	Boolean: 0 or 1
13	LIN	VARC	6	Y	Line Item Number for this vehicle	Any alpha/numeric

Table name: VEHICLE_TRUCK
Table Description: Truck attributes
Dependent on: N/A
Data Source: User
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TYPE	VARC	40	N	Type of truck	Any alpha/numeric
2	WEIGHTCAPACITY	NUMB	5	N	Weight capacity (st)	Float >= 0
3	POLCAPACITY	NUMB		N	POL capacity (gal)	Integer >= 0
4	CONTAINERCAPACITY	NUMB		N	Capacity for containers (num of containers)	Integer >= 0
5	PAXCAPACITY	NUMB		N	Passenger capacity	Integer >= 0
6	CARGOWIDTH	NUMB		N	Width of Cargo Area (in)	Float >= 0
7	CARGOLENGTH	NUMB		N	Length of Cargo Area (in)	Float >= 0
8	BEDHEIGHT	NUMB		N	Height of truck bed (in)	Float >= 0
9	CURBWEIGHT	NUMB		N	Curb weight (st)	Float >= 0
10	RATEMARCH	NUMB		N	Rate of March (mph or kph)	Float > 0
11	ONLOADTIME	NUMB		N	Time necessary to load (hours)	Float >= 0
12	OFFLOADTIME	NUMB		N	Time necessary to unload (hours)	Float >= 0
13	MILITARY	NUMB		N	true = military, false = commercial	Boolean 0 or 1
14	DEFAULTAVAIL	NUMB		N	Default % Availability of vehicle	Float: 0-100
15	LIN	VARC	6	Y	Line Item Number for this vehicle	Any alpha/numeric

4.3 Physical Design of the TARGET Tables

The following provides the TARGET data tables and the data elements that comprise them.

```
Table name:         CARGO_CODES
Table Description: Cargo Code Table - List of cargo codes distinguishing types
                   of transports and equipment for STLD Loading.
Dependent on:      N/A
Data Source:       TARGET
Static vs Dynamic: Static
```

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	CARGO_CODE	VARC	2	N	Cargo identification code. AG = Aggregate TOE - (Conex insert outsize), AH = Airframe (Helicopter), AM = Accompanying Ammunition, BC = Box Car, C = Container, CB = Dunnage (Conex insert box), CE = Convoy Equipment (Non-cargo vehicle), CV = Convoy Vehicle (Cargo Vehicle), CX = Aggregate TOE (Conex insert), E = Equipment (Non-cargo vehicle) (Not convoyed), FC = Flatcar, HF = Highway Flatbed, HV = Highway Van, P = Dunnage (Personal equipment), RC = Residual Convoyable (Roadable) Vehicle, RE = Residual Equipment (Not roadable), S = Accompanying Supply, V = Vehicle (Cargo Vehicle) (Not convoyed).	Alpha: AG, AH, AM, BC, C, CB, CE, CV, CX, E, F, HF, HV, P, RC, RE, S, and V
2	RAIL_CAR	VARC	1	N	Rail car (Y or N)	Alpha: Y or N
3	HIGHWAY_VEHICLE	VARC	1	N	Highway transport (Y or N)	Alpha: Y or N
4	CONTAINER	VARC	1	N	Container (Y or N)	Alpha: Y or N
5	CAN_STACK	VARC	1	N	Can be stacked during loading (Y or N)	Alpha: Y or N
6	CONVOY	VARC	1	N	Convoyed vehicle (Y or N)	Alpha: Y or N
7	VEHICLE	VARC	1	N	Cargo vehicle (Y or N)	Alpha: Y or N
8	EQUIPMENT	VARC	1	N	Unit equipment (other than cargo vehicles and aggregate TOE) (Y or N)	Alpha: Y or N
9	PALLET	VARC	1	N	Pallet or other dunnage (Y or N)	Alpha: Y or N

Table name: CARGO_CODES (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
10	CONEX_INSERT	VARC	1	N	CONEX insert box (Y or N)	Alpha: Y or N
11	AGGREGATE	VARC	1	N	Aggregate TOE larger than a CONEX insert (Y or N)	Alpha: Y or N
12	CONEX	VARC	1	N	Aggregate TOE that fits in a CONEX insert (Y or N)	Alpha: Y or N
13	SUPPLY	VARC	1	N	Accompanying supply (Y or N)	Alpha: Y or N
14	AMMUNITION	VARC	1	N	Accompanying ammunition (Y or N)	Alpha: Y or N
15	DESCRIPTION	VARC	80	Y	Cargo code description.	Any alpha/numeric

Table name: CONTAINERS
Table Description: ECF Container / Pallet Table - List of containers and pallets in the ECF by LIN/TAMN.
Dependent on: ECF_LIST, TECF_C
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LIN	VARC	6	N	Container LIN or TAMN.	Valid on ECF_LIST.LIN
2	LIN_INDEX	VARC	2	Y	LIN or TAMN index number.	Valid on TECF_C.LIN_INDEX
3	CARGO_CODE	VARC	2	N	Equipment cargo code (C = container, P = pallet).	Alpha: C or P

Table name: DATA_STATE
Table Description: Execution Status Table - Internal TARGET table for tracking the execution status of each TARGET module by Project ID.
Dependent on: RUNSTREAM
Data Source: TARGET
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	KEY	VARC	7	N	Project ID.	Valid on RUNSTREAM.KEY
2	EXTRACTOR	NUMB	3	Y	Extractor module execution status (-1 = never executed, 0 = executed, 1 = executing, 2 = ready to re-execute [data changed])	Integer: -1 to 2
3	EXTRACTOR_D	DATE	7	Y	Extractor status date.	Any valid date
4	FDG	NUMB	3	Y	Force Data Generator module execution status.	Integer: -1 to 2
5	FDG_D	DATE	7	Y	Force Data Generator status date.	Any valid date
6	VEHCAR	NUMB	3	Y	Vehicular Cargo module execution status.	Integer: -1 to 2
7	VEHCAR_D	DATE	7	Y	Vehicular Cargo status date.	Any valid date
8	STLD	NUMB	3	Y	Surface Transport Loading Data module execution status.	Integer: -1 to 2
9	STLD_D	DATE	7	Y	Surface Transport Loading Data status date.	Any valid date
10	PREAIRLOAD	NUMB	3	Y	Pre-Air Load module execution status.	Integer: -1 to 2
11	PREAIRLOAD_D	DATE	7	Y	Pre-Air Load status date.	Any valid date
12	AIRLOAD	NUMB	3	Y	Air Load module execution status.	Integer: -1 to 2
13	AIRLOAD_D	DATE	7	Y	Air Load status date.	Any valid date

Table name: ECF_LIST
Table Description: Preferred Model Table - List of preferred LIN and TAMN indexes in the TARGET ECF tables.
Dependent on: TECF_C
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TOE_LIN	VARC	6	N	Equipment identifier (LIN or TAMN, or parent LIN or TAMN [for sets]).	Any Alpha/numeric in format AANNNN or ANNNNN
2	LIN	VARC	6	N	LIN or TAMN to be selected from the TARGET ECF tables.	Any Alpha/numeric in format AANNNN or ANNNNN
3	LIN_INDEX	VARC	2	N	LIN or TAMN index number to be selected from the TARGET ECF tables.	Valid on TECF_C.LIN_INDEX
4	SET_LIN	VARC	6	Y	Parent LIN or TAMN (for sets).	Any Alpha/numeric in format AANNNN or ANNNNN
5	SET_QTY	NUMB	7	N	Set multiplier (1 if not a set).	Integer >= 1
6	CARGO_WEIGHT	NUMB	6	N	Cargo capacity in pounds.	Integer >= 0
7	OPS_RED	VARC	3	N	Operational configuration (OPS) or reduced configuration (RED).	Alpha: OPS or RED
8	LIN_DES	VARC	35	Y	Nomenclature (item description).	Any alpha/numeric
9	MODEL_DES	VARC	12	Y	Model number.	Any alpha/numeric
10	PARENT_EQUIP	VARC	1	N	Equipment code or parent equipment code for components.	Any alpha/numeric
11	PARENT_INDEX	VARC	2	Y	LIN or TAMN index number, or parent index number for components (null for components of assembled data items).	Any alpha/numeric
12	PARENT_LENGTH	NUMB	5	N	Length or parent length for components (in inches).	Integer >= 0
13	PARENT_WIDTH	NUMB	5	N	Width or parent width for components (in inches).	Integer >= 0
14	PARENT_HEIGHT	NUMB	4	N	Height or parent height for components (in inches).	Integer >= 0
15	PARENT_WEIGHT	NUMB	7	N	Weight or parent weight for components (in pounds).	Integer >= 0

Table name: EQUIP_CODES
Table Description: Equipment Code Table - List of equipment codes distinguishing types of equipment and their loading characteristics.
Dependent on: N/A
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	EQUIP_CODE	VARC	1	N	Equipment Code.	Alpha/Numeric: 0-9, C-H, J, K, M, N, P-V, X, or Y
2	TRACKED	VARC	1	N	Tracked vehicle.	Alpha: Y or N
3	WHEELED	VARC	1	N	Wheeled vehicle.	Alpha: Y or N
4	SELF_PROPELLED	VARC	1	N	Self-propelled vehicle.	Alpha: Y or N
5	FLOATING	VARC	1	N	Floating craft.	Alpha: Y or N
6	HELICOPTER	VARC	1	N	Helicopter.	Alpha: Y or N
7	AIRPLANE	VARC	1	N	Airplane.	Alpha: Y or N
8	VEHICLE	VARC	1	N	Vehicle.	Alpha: Y or N
9	TOWED	VARC	1	N	Towed vehicle.	Alpha: Y or N
10	VEHCAR_ELIG	VARC	1	N	Eligible for cargo vehicle loading.	Alpha: Y or N
11	CONTAINER_ELIG	VARC	1	N	Eligible for container loading.	Alpha: Y or N
12	RAIL_ELIG	VARC	1	N	Eligible for rail or highway transport.	Alpha: Y or N
13	STACKABLE	VARC	1	N	Can be stacked for loading.	Alpha: Y or N
14	PALLET_NEEDED	VARC	1	N	Requires Pallet or dunnage for loading.	Alpha: Y or N
15	SELF_DEPLOYABLE	VARC	1	N	Self-deployable.	Alpha: Y or N
16	FLYING_CRAFT	VARC	1	N	Helicopter or airplane.	Alpha: Y or N
17	PRIME_MOVER	VARC	1	N	Prime mover.	Alpha: Y or N
18	AMMUNITION	VARC	1	N	Ammunition.	Alpha: Y or N
19	TURNABLE	VARC	1	N	Can be turned for loading.	Alpha: Y or N
20	MULTI_LEVEL	VARC	1	N	Eligible for loading on multi-level transports.	Alpha: Y or N
21	NON_CARGO	VARC	1	N	Not a cargo vehicle.	Alpha: Y or N
22	DESCRIPTION	VARC	120	Y	Equipment code description.	Any alpha/numeric

Table name: HIGHWAY_LIMITS
Table Description: Highway Limits Table - Dimensional highway restrictions by country and state.
Dependent on: N/A
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	NAME	VARC	20	N	Country or state name.	Any alpha/numeric
2	ABBREV	VARC	2	Y	State abbreviation.	Any alpha/numeric
3	LENGTH	NUMB	7	N	Length restriction in inches.	Float >= 0
4	WIDTH	NUMB	7	N	Width restriction in inches.	Float >= 0
5	HEIGHT	NUMB	7	N	Height restriction in inches.	Float >= 0

Table name: PORTSIM_DATES
Table Description: PORTSIM POE dates table: Shared user table of unit POE arrival times by project ID.
Dependent on: RUNSTREAM, UEF
Data Source: TARGET
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	KEY	VARC	7	N	Project ID.	Valid on RUNSTREAM.KEY
2	REQID	VARC	9	N	Unit identifier (TPFDD ULN, SRC,UIC, TE number, or other).	Valid on UEF.SRC
3	PROJECTED_POE_ALD	NUMB	5	Y	Projected POE arrival time in days (projected ELIST or other date).	Float
4	TPFDD_POE_ALD	NUMB	5	Y	POE arrival time in days (TPFDD or other date).	Float
5	SRC_PARA	VARC	2	Y	SRC paragraph number or TAEDP fiscal year, null if not applicable).	Valid on UEF.SRC_PARA

Table name: RAIL_EXCEPTIONS
Table Description: STLD Exceptions table - List of equipment items designated for loading on specific transports.
Dependent on: ECF_LIST, TECF_C, STLD
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LIN	VARC	6	N	Equipment identifier (LIN, TAMN, or other).	Valid on ECF_LIST.LIN
2	LIN_INDEX	VARC	2	N	Index number (LIN index, TAMN index, or other).	Valid on TECF_C.LIN_INDEX
3	TRANSPORT_LIN	VARC	6	N	Transport identifier.	Valid on STLD.LIN

Table name: RUNSTREAM
Table Description: Runstream table - Shared user table of parameters for TARGET execution by project ID.
Dependent on: TUNNELS, HIGHWAY_LIMITS
Data Source: TARGET
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	KEY	VARC	7	N	Project ID.	Any alpha/numeric - user generated.
2	FORCE_DES	VARC	38	Y	Project description.	Any alpha/numeric
3	CONTOE	VARC	1	N	Execute the Extractor module to create the consolidated TOE table.	Alpha: Y or N
4	UEF	VARC	1	N	Execute the Force Data Generator module to create the unit equipment files tables.	Alpha: Y or N
5	VEHCAR	VARC	1	N	Execute the Vehicular Cargo module to create the VEHCAR tables.	Alpha: Y or N
6	STLD	VARC	1	N	Execute the Surface Transport Loading Data module to create the STLD table.	Alpha: Y or N
7	PREAIRLOAD	VARC	1	N	Execute the Pre-Air Load module to create the ASCII air load input file.	Alpha: Y or N
8	AIRLOAD	VARC	1	N	Execute the Air Load module to create the air load reports.	Alpha: Y or N
9	BOIP_DATE	VARC	12	N	Effective BOIP date used in the extractor module to select equipment and personnel records from the TOE tables.	Date in format DD-MON-YYYY
10	SUPPLY	VARC	1	N	Include accompanying supply and ammunition.	Alpha: Y or N
11	SUPPLY_WT	NUMB	8	N	Weight in pounds per man of accompanying supply (used in the Force Data Generator module).	Float >= 0
12	SUPPLY_CUBE	NUMB	8	N	Cubic feet per man of accompanying supply (used in the Force Data Generator module).	Float >= 0
13	AMMO_WT	NUMB	8	N	Weight in pounds per man of accompanying ammunition (used in the Force Data Generator module).	Float >= 0

Table name: RUNSTREAM (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
14	AMMO_CUBE	NUMB	8	N	Cubic feet per man of accompanying ammunition (used in the Force Data Generator module).	Float >= 0
15	MIN_LENGTH	NUMB	4	N	Length limit in inches of aggregate equipment (used in the Force Data Generator module).	Integer >= 0
16	MIN_WIDTH	NUMB	4	N	Width limit in inches of aggregate equipment (used in the Force Data Generator module).	Integer >= 0
17	MIN_HEIGHT	NUMB	4	N	Height limit in inches of aggregate equipment (used in the Force Data Generator module).	Integer >= 0
18	PALLET_WT	NUMB	6	N	Weight in pounds of a pallet (used in VEHCAR and STLD modules).	Integer >= 0
19	CONEX_CONTAINER_WT	NUMB	6	N	Weight in pounds of a CONEX insert box (used in VEHCAR and STLD modules).	Integer >= 0
20	AGG_STOW	NUMB	3	N	Stow factor for loading aggregate equipment in cargo vehicles and containers (used in the VEHCAR and STLD modules).	Integer >= 0
21	CONEX_STOW	NUMB	3	N	Stow factor for loading aggregate equipment in CONEX insert boxes (used in the VEHCAR module).	Integer >= 0
22	CONVOY	VARC	1	N	Convoy vehicles (used in the STLD module). Not applicable when splitting movement modes by unit.	Alpha: Y or N
23	SPLIT_MODE	VARC	1	N	Split movement modes by unit (used in the STLD module).	Alpha: Y or N
24	WHEELED	VARC	1	N	Load wheeled vehicles in containers (used in the STLD module).	Alpha: Y or N
25	TRACKED	VARC	1	N	Load tracked vehicles in containers (used in the STLD module).	Alpha: Y or N

Table name: RUNSTREAM (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
26	FLYING_CRAFT	VARC	1	N	Load flying craft in containers (used in the STLD module).	Alpha: Y or N
27	FLOATING_CRAFT	VARC	1	Y	Not used	
28	CNT_ON_FLATCARS	VARC	1	N	Load containers on transports (used in the STLD module).	Alpha: Y or N
29	TUNNEL	VARC	20	N	Tunnel type for checking rail clearance restrictions (used in the STLD module).	Valid on TUNNELS.TYPE
30	HIGHWAY	VARC	20	N	Country or state for checking highway restrictions (used in the STLD module).	Valid on HIGHWAY_LIMITS.NAME
31	USER_NAME	VARC	10	Y	Project creator(USERID).	Any alpha/numeric
32	CREATE_DATE	DATE	7	Y	Date of creation.	Any valid date
33	TRANS_DATE	DATE	7	Y	Date of last update.	Any Valid date
34	OUT_FILE	VARC	40	Y	Alternate STLD output file name (default is the project ID).	Any alpha/numeric
35	TPFDD_NUMBER	NUMB	6	Y	Associated TPFDD number (if any). Sequential number generated by the system during load of B8 ASCII file.	Integer >= 0
36	NEW_CONVERT	VARC	1	Y	Conversion flag for TARGET Version 3.0.	TBD
37	APPLIED_BOIP_DATE	VARC	12	Y	Actual effective BOIP date applied during the last Extractor run.	Date in format: DD-MON-YYYY

Table name: STLD
Table Description: STLD Transport Table - List of STLD transports.
Dependent on: CARGO_CODES
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LIN	VARC	6	N	Transport identifier.	Alpha/numeric: 6 character field generated by system or user.
2	CARGO_CODE	VARC	2	N	Transport cargo_code.	Alpha: BC, C, FC, HF, or HV
3	DESCRIPTION	VARC	80	Y	Transport description.	Any alpha/numeric
4	LENGTH	NUMB	7	N	Transport length in inches.	Float >= 0
5	WIDTH	NUMB	7	N	Transport width in inches.	Float >= 0
6	HEIGHT	NUMB	7	N	Transport height in inches.	Float >= 0
7	WEIGHT	NUMB	10	N	Transport weight in pounds.	Float >= 0
8	CARGO_WEIGHT	NUMB	10	N	Cargo capacity in pounds.	Float >= 0
9	CARGO_CUBE	NUMB	10	N	Cargo capacity in cubic feet.	Float >= 0
10	LEVELS	NUMB	4	N	Number of cargo decks.	Integer >= 0

Table name: STLD_EQP
Table Description: STLD Equipment Table - STLD equipment records for all equipment (loaded and unloaded) and their transports by project ID.
Dependent on: RUNSTREAM, UEF, ECF_LIST, EQUIP_CODES, CARGO_CODES, TECF_C
Data Source: TARGET
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	KEY	VARC	7	N	Project ID (unique identifier)	Valid on RUNSTREAM.KEY
2	SRC	VARC	9	N	Unit Identifier (SRC, UIC, TE number, or other)	Valid on UEF.SRC
3	SET_LIN	VARC	6	Y	Parent LIN or TAMN (for sets)	Valid on ECF_LIST.SET_LIN or NULL
4	LIN	VARC	6	Y	Equipment identifier (LIN, TAMN, or other).	Valid on ECF_LIST.LIN
5	LIN_INDEX	VARC	2	Y	LIN, TAMN, or other index number.	Valid on TECF_C.LIN_INDEX
6	LIN_CARGO_ID	VARC	17	Y	Cargo identification code (uniquely defines the item, null for CONEX insert boxes and pallets).	Any Alpha/numeric
7	LIN_COUNT	NUMB	5	Y	Identifier (for cargo vehicles only) for the specific vehicle in the VEHCAR tables (LIN, LIN_INDEX, and LIN_COUNT uniquely define the cargo vehicle).	Integer >= 0
8	LIN_DES	VARC	21	Y	Nomenclature (item description).	Any alpha/numeric
9	MODEL_DES	VARC	12	Y	Model description.	Any alpha/numeric
10	COMP_DES	VARC	20	Y	Component description.	Any alpha/numeric
11	QUANTITY	NUMB	7	N	Item quantity	Integer >= 1
12	PROBLEM	VARC	21	Y	Country or state or tunnel type through which this equipment will have problems being transported	Any valid country name, state name or NATO tunnels information database data.
13	CARGO_CODE	VARC	2	N	Cargo code to distinguish unit equipment, convoyed vehicles, containers, and other transport types.	Valid on CARGO_CODES.CARGO_CODE
14	EQUIP_CODE	VARC	1	Y	Equipment code indicating type of equipment.	Valid on EQUIP_CODES.EQUIP_CODE

Table name: STLD_EQP (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
15	LENGTH	NUMB	5	N	Item length in inches	Integer >= 0
16	WIDTH	NUMB	5	N	Item width in inches	Integer >= 0
17	HEIGHT	NUMB	4	N	Item height in inches	Integer >= 0
18	WEIGHT	NUMB	7	N	Item weight in pounds - Loaded weight for cargo vehicles (equipment, aggregate equipment, supplies, CONEX insert boxes, and pallets ammunition is removed from vehicles and containerized). Loaded weight for containers (equipment, aggregate equipment, supplies, ammunition, CONEX insert boxes, and pallets). Empty weight for highway and rail transports.	Integer >= 0
19	TOTAL_WEIGHT	NUMB	13	N	Item weight in pounds - Loaded weight for cargo vehicles (equipment, aggregate equipment, supplies, CONEX insert boxes, and pallets ammunition is removed from vehicles and containerized). Loaded weight for containers (equipment, aggregate equipment, supplies, ammunition, CONEX insert boxes, and pallets). Loaded weight for highway and rail transports.	Float >= 0
20	TOTAL_CUBE	NUMB	13	N	Cubic feet of loaded item.	Float >= 0
21	PARENT_EQUIP	VARC	1	Y	Equipment code or parent equipment code for components.	
22	TRANSPORT_SET_LIN	VARC	6	Y	Not used	
23	TRANSPORT_LIN	VARC	6	Y	Transport identifier of the transport on which the item is loaded.	Valid on STLD.LIN
24	TRANSPORT_LIN_INDEX	VARC	2	Y	Not used	

Table name: STLD_EQP (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
25	TRANSPORT_CARGO_ID	VARC	17	Y	Transport cargo identification code of the specific transport on which the item is loaded (uniquely defines the transport).	
26	TRANSPORT_COUNT	NUMB	6	Y	Identifier of the specific transport on which the item is loaded (TRANSPORT_LIN and TRANSPORT_COUNT uniquely defines the transport).	Integer >= 0
27	SRC_PARA	VARC	2	Y	SRC paragraph number or TAEDP fiscal year (null if not applicable).	Valid on UEF.SRC_PARA

Table name: STLD_LEVEL
Table Description: STLD Transport Detail Table - List of STLD transports load-carrying characteristics.
Dependent on: STLD
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LIN	VARC	6	N	Transport identifier.	Valid on STLD.LIN
2	LIN_LEVEL	NUMB	2	N	Cargo deck level.	Valid on STLD.LEVEL
3	CARGO_LENGTH	NUMB	7	N	Available cargo space length in inches.	Float >= 0
4	CARGO_WIDTH	NUMB	7	N	Available cargo space width in inches.	Float >= 0
5	CARGO_HEIGHT	NUMB	7	N	Available cargo space height in inches.	Float >= 0
6	CARGO_WEIGHT	NUMB	10	N	Cargo capacity in pounds.	Float >= 0
7	MAX_EQUIP_LENGTH	NUMB	7	N	Maximum length in inches of an item that can be loaded.	Float >= 0
8	DOOR_WIDTH	NUMB	6	N	Door width in inches.	Float >= 0
9	DOOR_HEIGHT	NUMB	6	N	Door height in inches.	Float >= 0
10	DECK_HEIGHT	NUMB	5	N	Cargo bed height above ground in inches.	Float >= 0
11	TRACK_SIDE_OVERHANG	NUMB	5	N	Allowable side overhang of cargo bed for tracked vehicles (includes both sides, in inches).	Float >= 0
12	WHEEL_SIDE_OVERHANG	NUMB	5	N	Allowable side overhang of cargo bed for wheeled vehicles (includes both sides, in inches).	Float >= 0
13	TRACK_FRONT_OVERHANG	NUMB	5	N	Allowable front overhang of cargo bed for tracked vehicles (in inches).	Float >= 0
14	WHEEL_FRONT_OVERHANG	NUMB	5	N	Allowable front overhang of cargo bed for wheeled vehicles (in inches).	Float >= 0
15	ITEM_SPACING	NUMB	4	N	Space required between loaded equipment items (in inches).	Float >= 0
16	RESTRICT_ROADABLE	VARC	1	Y	Load roadable equipment only on this transport level - not applicable for containers (Y = restricted, NULL or N = no restriction).	Alpha: Y, N, or NULL

Table name: STLD_LEVEL (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
17	RESTRICT_LENGTH	NUMB	7	Y	Load only equipment less than the specified length on this transport level - not applicable for containers (NULL or 0 = no restrictions)	Float >= 0 or NULL
18	RESTRICT_WIDTH	NUMB	7	Y	Load only equipment less than the specified width on this transport level - not applicable for containers (NULL or 0 = no restrictions)	Float >= 0 or NULL
19	RESTRICT_HEIGHT	NUMB	7	Y	Load only equipment less than the specified height on this transport level - not applicable for containers (NULL or 0 = no restrictions)	Float >= 0 or NULL
20	RESTRICT_WEIGHT	NUMB	10	Y	Load only equipment less than the specified weight on this transport level - not applicable for containers (NULL or 0 = no restrictions)	Float >= 0 or NULL

Table name: STLD_LIST
Table Description: STLD input table - Shared user table of transports for STLD loading by project ID.
Dependent on: RUNSTREAM, STLD
Data Source: TARGET
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	KEY	VARC	7	N	Project ID.	Valid on RUNSTREAM.KEY
2	LIN	VARC	6	N	Transport identifier.	Valid on ECF_LIST.LIN
3	QUANTITY	NUMB	7	N	Number of transports available.	Integer >= 0
4	PRIORITY	NUMB	2	N	Loading priority (lowest numbers have highest priority).	Integer >= 0
5	PERCENT_USE	NUMB	3	N	Percentage of use, used to determine loading ratio of containers when more than one type of container is available (100 for transports other than containers or when not loading containers by ratio).	Integer: 0 to 100
6	CONTAINER_LOADING	VARC	1	N	Transport is designated and loaded as a container.	Alpha: Y or N

Table name: TECF_C
Table Description: Master TARGET ECF equipment table - Equipment data records by LIN or TAMN.
Dependent on: EQUIP_CODES, ECF_LIST
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	LIN	VARC	6	N	LIN or TAMN.	Valid on ECF_LIST.LIN
2	REC_TYPE	VARC	1	N	Record type (distinguishing between parent equipment records [C] and their component records [D], if any.	Alpha: C or D
3	LIN_INDEX	VARC	2	N	LIN or TAMN index number. (Not any ordering sequence).	Any alpha/numeric combination of 0-9 and/or A-Z except for I or O.
4	ROADABLE	VARC	1	Y	Roadable flag (for vehicles only), R = roadable, N = non-roadable.	Alpha: R or N
5	NSN	VARC	13	N	Item national stock number (parent NSN for components).	Any alpha/numeric
6	COMP_CODE	VARC	1	Y	Component code linking parent equipment items to their component pieces (all records with the same LIN or TAMN, NSN, and component code comprise one equipment item and its component pieces	Any alpha code
7	SHIP_CODE	VARC	2	N	Shipping configuration code.	Alpha/numeric: 0-9, 8A, 9A, 9B, AA, BA, CA, CP, DA, A-N, and P-Z
8	DIM_CODE	VARC	1	N	Dimension code indicating data completeness (1 = dimensional and weight and cube data, 2 = weight and cube data only, 3 = weight data only, 4 = no dimensional, weight or cube data).	Alpha/numeric: 1 - 4
9	EQUIP_CODE	VARC	1	N	Equipment code indicating type of equipment.	Valid on EQUIP_CODES.EQUIP_CODE

Table name: TECF_C (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
10	PREF_CODE	VARC	1	N	Preferred model / validated data code (A = preferred and validated, B = Not preferred and validated, C = Preferred and not validated, D = Not preferred and not validated).	Alpha: A, B, C, or D
11	LENGTH	NUMB	5	N	Item length in inches.	Integer >= 0
12	WIDTH	NUMB	5	N	Item width in inches.	Integer >= 0
13	HEIGHT	NUMB	4	N	Item height in inches.	Integer >= 0
14	WEIGHT	NUMB	7	N	Item weight in pounds.	Integer >= 0
15	COMP_DES	VARC	20	Y	Component description.	Any alpha/numeric
16	NUM_PIECES	NUMB	3	Y	Number of pieces (component multiple)	Integer >= 0
17	CUBE	NUMB	7	N	Item cubic feet.	Integer >= 0
18	CAPACITY	NUMB	4	Y	Cargo capacity in cubic feet.	Integer >= 0
19	MAX_HT	NUMB	4	Y	Maximum height of loaded vehicle in inches.	Integer >= 0
20	MODEL_DES	VARC	12	Y	Model number.	Any Alpha/numeric
21	SQUARE_FEET	NUMB	5	Y	Item square feet.	Integer >= 0
22	C_130	VARC	1	Y	C-130 aircraft certification flag (C = certified for loading, D = certified as not loadable, E = does not meet dimensional criteria but not yet certified as not loadable, X = fits dimensional criteria but not yet certified for loading).	Alpha: C, D, E, or X
23	C_130_FACING	VARC	1	Y	C-130 orientation (A = facing to the rear, F = facing forward).	Alpha: A or F
24	C_141	VARC	1	Y	C-141 aircraft certification flag.	Alpha: C, D, E, or X
25	C_141_FACING	VARC	1	Y	C-141 orientation.	Alpha: A or F
26	C_5	VARC	1	Y	C-5 aircraft certification flag.	Alpha: C, D, E, or X

Table name: TECF_C (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
27	C_5_FACING	VARC	1	Y	C-5 orientation.	Alpha: A or F
28	C_5B	VARC	1	Y	C-5B aircraft certification flag.	Alpha: C, D, E, or X
29	C_5B_FACING	VARC	1	Y	C-5B orientation.	Alpha: A or F
30	C_17	VARC	1	Y	C-17 aircraft certification flag.	Alpha: C, D, E, or X
31	C_17_FACING	VARC	1	Y	C-17 orientation.	Alpha: A or F
32	DC_8	VARC	1	Y	DC-8 aircraft certification flag.	Alpha: C, D, E, or X
33	DC_8_FACING	VARC	1	Y	DC-8 orientation.	Alpha: A or F
34	DC_10	VARC	1	Y	DC-10 aircraft certification flag.	Alpha: C, D, E, or X
35	DC_10_FACING	VARC	1	Y	DC-10 orientation.	Alpha: A or F
36	B_707	VARC	1	Y	B-707 aircraft certification flag.	Alpha: C, D, E, or X
37	B_707_FACING	VARC	1	Y	B-707 orientation.	Alpha: A or F
38	B_747S	VARC	1	Y	B-747S (side loading) aircraft certification flag.	Alpha: C, D, E, or X
39	B_747S_FACING	VARC	1	Y	B-747S (side loading) orientation.	Alpha: A or F
40	B_747F	VARC	1	Y	B-747F (nose loading) aircraft certification flag.	Alpha: C, D, E, or X
41	B_747F_FACING	VARC	1	Y	B-747F (nose loading) orientation.	Alpha: A or F
42	KC_10	VARC	1	Y	KC-10 aircraft certification flag.	Alpha: C, D, E, or X
43	KC_10_FACING	VARC	1	Y	KC-10 orientation.	Alpha: A or F
44	KC_135	VARC	1	Y	KC-135 aircraft certification flag.	Alpha: C, D, E, or X
45	KC_135_FACING	VARC	1	Y	KC-135 orientation.	Alpha: A or F
46	CONT_20FT	VARC	1	Y	20-foot container eligible (JCS cargo category code dimensional criteria).	Alpha: Y or N
47	CONT_40FT	VARC	1	Y	40-foot container eligible (JCS cargo category code dimensional criteria).	Alpha: Y or N

Table name: TECF_C (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
48	PALLET_463L	VARC	1	Y	463L pallet eligible (JCS cargo category code dimensional criteria).	Alpha: Y or N
49	CARGO_CAT_CODE	VARC	4	Y	3-position JCS cargo category and heavy lift dimension codes.	Any valid JCS/JOPES 3 position code - system generated
50	STORAGE_INDEX	VARC	2	Y	Index number of first storage group code record (2E).	Not used.
51	OUTLINE_INDEX	VARC	2	Y	Index number of first outline data record (3E).	Not used.
52	STATION_INDEX	VARC	2	Y	Index number of first aircraft station record (4E).	Not used.
53	UNION_INDEX	VARC	2	Y	Index number of first union data record (5E).	Not used.
54	AXLE_INDEX	VARC	2	Y	Index number of first axle data record (6E).	Not used.
55	CONTACT_INDEX	VARC	2	Y	Index number of first contact point record (7E).	Not used.
56	SHORING_INDEX	VARC	2	Y	Index number of first aircraft shoring requirement record (8E).	Not used.
57	CARGO_LENGTH	NUMB	4	Y	Cargo compartment length in inches.	Integer >= 0
58	CARGO_WIDTH	NUMB	4	Y	Cargo compartment width in inches.	Integer >= 0
59	CARGO_HEIGHT	NUMB	4	Y	Cargo compartment height in inches.	Integer >= 0
60	BED_HEIGHT	NUMB	3	Y	Cargo bed height above ground in inches.	Integer >= 0
61	WHEEL_BASE	NUMB	3	Y	Wheel base in inches.	Integer >= 0
62	APPROACH_ANGLE	NUMB	2	Y	Angle of approach.	Integer >= 0
63	DEPARTURE_ANGLE	NUMB	2	Y	Angle of departure.	Integer >= 0
64	GROUND_CLEARANCE	NUMB	5	Y	Minimum ground clearance in inches.	Integer >= 0
65	CENTER_OF_GRAVITY	NUMB	5	Y	Center of gravity in inches.	Integer >= 0
66	FRONT_PROFILE_LENGTH	NUMB	3	Y	Front profile length in inches.	Integer >= 0

Table name: TECF_C (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
67	FRONT_PROFILE_HEIGHT	NUMB	3	Y	Front profile height in inches.	Integer >= 0
68	REAR_PROFILE_LENGTH	NUMB	3	Y	Rear profile length in inches.	Integer >= 0
69	REAR_PROFILE_HEIGHT	NUMB	3	Y	Rear profile height in inches.	Integer >= 0
70	LEFT_PROFILE_WIDTH	NUMB	3	Y	Left profile width in inches.	Integer >= 0
71	LEFT_PROFILE_HEIGHT	NUMB	3	Y	Left profile height in inches.	Integer >= 0
72	RIGHT_PROFILE_WIDTH	NUMB	3	Y	Right profile width in inches.	Integer >= 0
73	RIGHT_PROFILE_HEIGHT	NUMB	3	Y	Right profile height in inches.	Integer >= 0
74	FIRST_D_REC	VARC	2	Y	Index number of first component record (1E).	Not used.
75	NUM_D_REC	NUMB	3	Y	Number of component records.	Integer >= 0
76	FIRST_E_REC	VARC	2	Y	Index number of first comment record (1E).	Not used.
77	E_REF	VARC	28	Y	Comment record index numbers (up to 14 1E index numbers).	Not used.
78	DIESEL	VARC	1	Y	Aircraft venting code - item requires venting (C = cryogenic, E = exhaust).	Alpha C or E
79	NO_LOAD	VARC	2	Y	Aircraft no-load code.	Alpha: NL or NULL
80	MLC_EMPTY_LB	VARC	4	Y	Military load classification of empty vehicle in short tons.	String representation of Number of short tons.
81	MLC_LOAD_LB	VARC	4	Y	Military load classification of loaded vehicle in short tons.	String representation of Number of short tons.

Table name: TUNNELS
Table Description: Tunnel Envelope Table - Tunnel width restrictions at given heights.
Dependent on: N/A
Data Source: TARGET
Static vs Dynamic: Static

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	TYPE	VARC	20	N	Tunnel name.	Any alpha/numeric
2	HEIGHT	NUMB	7	N	Height restriction in inches.	Float >= 0
3	WIDTH	NUMB	7	N	Width restrictions in inches at the given height.	Float >= 0

Table name: UEF
Table Description: Unit Header Record table - Unit header records by project ID.
Dependent on: RUNSTREAM
Data Source: TARGET
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	KEY	VARC	7	N	Project ID (unique identifier)	Valid on RUNSTREAM.KEY
2	FORCE_DES	VARC	38	Y	Project description	Any alpha/numeric
3	TYPE_FILE	VARC	1	Y	Identification code indicating type of unit identifier and the master tables from which the data is drawn (A = TE number from the Marine Corps tables, D = UIC from the TAEDP tables, M = UIC from the MTOE tables, N = Unit identification number from the Notional Unit tables, T = SRC from TOE tables, and , U = unknown, x = TPFDD source.	Alpha: A, D, M, N, T, U, or X.
4	SRC_FOUND	VARC	1	Y	Flag indicating that the unit identifier (SRC, UIC, TE number or other) was found in the master data tables.	Alpha: Y or N
5	SRC	VARC	9	N	Unit Identifier (SRC, UIC, TE number, or other)	Any Alpha/Numeric
6	SRC_PARA	VARC	2	Y	SRC paragraph number or TAEDP fiscal year (null if not applicable).	Any Alpha/Numeric
7	SRC_DES	VARC	26	Y	Unit description.	Any alpha/numeric
8	SEQ_NUM	NUMB	5	N	Sequence number for ordering output reports by unit (output is ordered by unit identifier when the sequence numbers are the same).	Integer >= 0
9	UNIT_MULT	NUMB	4	N	Number of units in the force (unit multiple).	Integer >= 0
10	PER_STR	NUMB	6	Y	Unit personnel strength.	Integer >= 0
11	SHIP_CONFI	VARC	1	N	Shipping configuration code for selecting operation or reduced equipment configurations (O = operational, R = reduced) (default = R)	Alpha: O or R

Table name: UEF (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
12	CONVOY_MODE	VARC	1	Y	Unit can convoy vehicles during surface moves (applies only when splitting movement modes by unit).	Alpha: Y or N
13	MOTOR_MODE	VARC	1	Y	Unit can move by highway transport during surface moves (applies only when splitting movement modes by unit).	Alpha: Y or N
14	RAIL_MODE	VARC	1	Y	Unit can move by rail transport during surface moves (applies only when splitting movement modes by unit).	Alpha: Y or N
15	AGG_WT	NUMB	9	Y	Weight in pounds of all equipment smaller than the aggregate dimensions (includes CONEX_WT).	Integer >= 0
16	AGG_CUBE	NUMB	9	Y	Cubic feet of all equipment smaller than the aggregate dimensions (includes CONEX_CUBE).	Integer >= 0
17	CONEX_WT	NUMB	9	Y	Weight in pounds of all equipment smaller than the dimensions of a CONEX insert box	Integer >= 0
18	CONEX_CUBE	NUMB	9	Y	Cubic feet of all equipment smaller than the dimensions of a CONEX insert box	Integer >= 0
19	ACMP_WT	NUMB	9	Y	Weight in pounds of accompanying supply	Integer >= 0
20	ACMP_CUBE	NUMB	9	Y	Cubic feet of accompanying supply	Integer >= 0
21	AMMO_WT	NUMB	9	Y	Weight in pounds of accompanying ammunition	Integer >=0
22	AMMO_CUBE	NUMB	9	Y	Cubic feet of accompanying ammunition	Integer >= 0
23	RESID_AGG_WT	NUMB	9	Y	Weight in pounds of aggregated equipment not loaded in cargo vehicles (includes RESID_CONEX_WT).	Integer >= 0
24	RESID_AGG_CUBE	NUMB	9	Y	Cubic feet of aggregated equipment not loaded in cargo vehicles (includes RESID_CONEX_CUBE).	Integer >= 0

Table name: UEF (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
25	RESID_CONEX_WT	NUMB	9	Y	Weight in pounds of aggregated CONEX insert box equipment not loaded in cargo vehicles.	Integer >= 0
26	RESID_CONEX_CUBE	NUMB	9	Y	Cubic feet of all aggregated CONEX insert box equipment not loaded in cargo vehicles.	Integer >= 0
27	RESID_ACMP_WT	NUMB	9	Y	Weight in pounds of accompanying supply not loaded in cargo vehicles.	Integer >= 0
28	RESID_ACMP_CUBE	NUMB	9	Y	Cubic feet of accompanying supply not loaded in cargo vehicles.	Integer >= 0
29	RESID_AMMO_WT	NUMB	9	Y	Weight in pounds of accompanying ammunition not loaded in cargo vehicles.	Integer >= 0
30	RESID_AMMO_CUBE	NUMB	9	Y	Cubic feet of accompanying ammunition not loaded in cargo vehicles.	Integer >= 0

Table name: UEF_EQUIP
Table Description: Unit Equipment Record table - Unit equipment records by project ID
Dependent on: RUNSTREAM, UEF, CARGO_CODES, ECF_LIST, TECF_C, EQUIP_CODES
Data Source: TARGET
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	KEY	VARC	7	N	Project ID (unique identifier)	Valid on RUNSTREAM.KEY
2	SRC	VARC	9	N	Unit Identifier (SRC, UIC, TE number, or other)	Valid on UEF.SRC
3	SET_LIN	VARC	6	Y	Parent LIN or TAMN (for sets)	Valid on ECF_LIST.SET_LIN
4	LIN	VARC	6	N	Equipment identifier (LIN, TAMN, or other).	Valid on ECF_LIST.LIN
5	LIN_INDEX	VARC	2	N	LIN, TAMN, or other index number.	Valid on TECF_C.LIN_INDEX
6	LIN_DES	VARC	21	Y	Nomenclature (item description).	Any alpha/numeric
7	MODEL_DES	VARC	12	Y	Model description.	Any alpha/numeric
8	COMP_DES	VARC	20	Y	Component description.	Any alpha/numeric
9	LIN_QTY	NUMB	5	N	Item quantity (component multiplier not applied).	Integer >= 0
10	NUM_PIECES	NUMB	5	N	Number of pieces (component multiplier) (default = 1)	Integer >= 1
11	TOT_QTY	NUMB	10	N	Total quantity (component multiplier applied).	Integer >= 0
12	ROADABLE	VARC	1	Y	Roadable flag (for vehicles only) (R = roadable, N =non-roadable).	Alpha: R or N
13	SHIP_CODE	VARC	2	N	Shipping configuration code.	Alpha/numeric: 0-9, 8A, 9A, 9B, AA, BA, CA, CP, DA, A-N, and P-Z
14	EQUIP_CODE	VARC	1	N	Equipment code indicating type of equipment.	Valid on EQUIP_CODES.EQUIP_CODE
15	LENGTH	NUMB	5	N	Item length in inches	Integer >= 0
16	WIDTH	NUMB	5	N	Item width in inches	Integer >= 0
17	HEIGHT	NUMB	4	N	Item height in inches	Integer >= 0
18	WEIGHT	NUMB	7	N	Item weight in pounds	Integer >= 0
19	CUBE	NUMB	7	N	Item cubic feet	Integer >= 0
20	MAX_CARGO_HEIGHT	NUMB	4	N	Maximum height of loaded vehicle in inches.	Integer >= 0

Table name: UEF_EQUIP (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
21	CARGO_LENGTH	NUMB	4	N	Cargo compartment length in inches.	Integer >= 0
22	CARGO_WIDTH	NUMB	4	N	Cargo compartment width in inches.	Integer >= 0
23	CARGO_HEIGHT	NUMB	4	N	Cargo compartment height in inches.	Integer >= 0
24	MAX_CGO_WT	NUMB	6	N	Cargo capacity in pounds	Integer >= 0
25	MAX_CUBE	NUMB	8	N	Cargo capacity in cubic feet.	Integer >= 0
26	PARENT_INDEX	VARC	2	Y	Index number or parent index number for components (null for components of assembled data items	Any alpha/numeric
27	PARENT_EQUIP	VARC	1	N	Equipment code or parent equipment code for components.	Any alpha/numeric
28	PARENT_LENGTH	NUMB	5	N	Length or parent length for components (in inches)	Integer >= 0
29	PARENT_WIDTH	NUMB	5	N	Width or parent width for components (in inches)	Integer >= 0
30	PARENT_HEIGHT	NUMB	4	N	Height or parent height for components (in inches)	Integer >= 0
31	PARENT_WEIGHT	NUMB	7	N	Weight or parent weight for components (in pounds)	Integer >= 0
32	B_707	VARC	1	Y	B-707 aircraft certification flag (C = certified for loading, D = certified as not loadable, E = does not meet dimensional criteria but not yet certified as not loadable, X = fits dimension criteria but not yet certified for loading).	Alpha: C, D, E, or X
33	B_747	VARC	1	Y	B-747 aircraft certification flag.	Alpha: C, D, E, or X
34	DC_8	VARC	1	Y	DC-8 aircraft certification flag.	Alpha: C, D, E, or X
35	DC_10	VARC	1	Y	DC-10 aircraft certification flag.	Alpha: C, D, E, or X
36	C_130	VARC	1	Y	C-130 aircraft certification flag.	Alpha: C, D, E, or X

Table name: UEF_EQUIP (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
37	C_141	VARC	1	Y	C-141 aircraft certification flag.	Alpha: C, D, E, or X
38	C_5	VARC	1	Y	C-5 aircraft certification flag.	Alpha: C, D, E, or X
39	AGG_PIECE	VARC	1	N	Aggregate equipment (Y or N) (Not used).	Alpha: Y or N
40	CARGO_CODE	VARC	2	Y	Cargo code indicating type of cargo or asset.	Valid on CARGO_CODES.CARGO_CODE
41	SRC_PARA	VARC	2	Y	SRC paragraph number or TAEDP fiscal year (null if not applicable).	Valid on UEF.SRC_PARA

Table name: VEHCAR_EQP
Table Description: Vehicular Cargo Equipment Table - VEHCAR equipment records for all equipment except cargo vehicles by project ID.
Dependent on: RUNSTREAM, UEF, CARGO_CODES, EQUIP_CODES, ECF_LIST, TECF_C, STLD
Data Source: TARGET
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	KEY	VARC	7	N	Project ID (unique identifier)	Valid on RUNSTREAM.KEY
2	SRC	VARC	9	N	Unit Identifier (SRC, UIC, TE number, or other)	Valid on UEF.SRC
3	SET_LIN	VARC	6	Y	Parent LIN or TAMN (for sets)	Valid on ECF_LIST.SET_LIN
4	LIN	VARC	6	N	Equipment identifier (LIN, TAMN, or other).	Valid on ECF_LIST.LIN
5	LIN_INDEX	VARC	2	N	LIN, TAMN, or other index number.	Valid on TECF_C.LIN_INDEX
6	CARGO_ID	VARC	17	N	Cargo identification code (uniquely identifies the item).	Any alpha/numeric - system generated
7	LIN_DES	VARC	21	Y	Nomenclature (item description).	Any alpha/numeric
8	MODEL_DES	VARC	12	Y	Model description.	Any alpha/numeric
9	COMP_DES	VARC	20	Y	Component description.	Any alpha/numeric
10	QUANTITY	NUMB	7	N	Item quantity.	Integer >= 0
11	ROADABLE	VARC	1	Y	Roadable flag (for vehicles only) (R = roadable, N =non-roadable).	Alpha: R or N
12	EQUIP_CODE	VARC	1	N	Equipment code to distinguish type of equipment.	Valid on EQUIP_CODES.EQUIP_CODE
13	LENGTH	NUMB	5	N	Item length in inches	Integer >= 0
14	WIDTH	NUMB	5	N	Item width in inches	Integer >= 0
15	HEIGHT	NUMB	4	N	Item height in inches	Integer >= 0
16	WEIGHT	NUMB	7	N	Item weight in pounds	Integer >= 0
17	CUBE	NUMB	7	N	Item cubic feet	Integer >= 0
18	PARENT_INDEX	VARC	2	Y	Index number or parent index number for components (null for components of assembled data items	Any alpha/numeric
19	PARENT_EQUIP	VARC	1	N	Equipment code or parent equipment code for components.	Any alpha/numeric

Table name: VEHCAR_EQP (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
20	PARENT_LENGTH	NUMB	5	N	Length or parent length for components (in inches)	Integer >= 0
21	PARENT_WIDTH	NUMB	5	N	Width or parent width for components (in inches)	Integer >= 0
22	PARENT_HEIGHT	NUMB	4	N	Height or parent height for components (in inches)	Integer >= 0
23	PARENT_WEIGHT	NUMB	7	N	Weight or parent weight for components (in pounds)	Integer >= 0
24	FK_SET_LIN	VARC	6	Y	Parent LIN or TAMN (for sets) of the cargo vehicle in which the item is loaded.	Valid on STLD.SET_LIN
25	FK_LIN	VARC	6	Y	LIN, TAMN, or other equipment identifier of the cargo vehicle in which the item is loaded.	Valid on STLD.LIN
26	FK_LIN_INDEX	VARC	2	Y	LIN, TAMN, or other index number of the cargo vehicle in which the item is loaded.	Valid on STLD.LIN_INDEX
27	FK_CARGO_ID	VARC	17	Y	Cargo identification code of the specific vehicle in which the item is loaded (uniquely defines the cargo vehicle).	
28	FK_COUNT	NUMB	7	Y	Identifier of the specific cargo vehicle in which the item is loaded (FK_SET_LIN, FK_LIN, FK_LIN_INDEX, and FK_COUNT uniquely defines the cargo vehicle).	Integer >= 0
29	CARGO_CODE	VARC	2	Y	Cargo code indicating type of cargo or asset.	Valid on CARGO_CODES.CARGO_CODE
30	SRC_PARA	VARC	2	Y	SRC paragraph number or TAEDP fiscal year (null if not applicable).	Valid on UEF.SRC_PARA

Table name: VEHCAR_VHL
Table Description: Vehicular Cargo Cargo Vehicle Record Table - VEHCAR cargo vehicle records by project ID.
Dependent on: RUNSTREAM, UEF, ECF_LIST, EQUIP_CODES, CARGO_CODES, TECF_C
Data Source: TARGET
Static vs Dynamic: Dynamic

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
1	KEY	VARC	7	N	Project ID (unique identifier)	Valid on RUNSTREAM.KEY
2	SRC	VARC	9	N	Unit Identifier (SRC, UIC, TE number, or other)	Valid on UEF.SRC
3	SET_LIN	VARC	6	Y	Parent LIN or TAMN (for sets)	Valid on ECF_LIST.SET_LIN
4	LIN	VARC	6	N	Equipment identifier (LIN, TAMN, or other).	Valid on ECF_LIST.LIN
5	LIN_INDEX	VARC	2	N	LIN, TAMN, or other index number.	Valid on TECF_C.LIN_INDEX
6	CARGO_ID	VARC	17	N	Cargo identification code (uniquely identifies the vehicle).	Any alpha/numeric - system generated
7	CNT	NUMB	7	N	Identifier of the specific cargo vehicle (SET_LIN, LIN, LIN_INDEX, and CNT uniquely defines the cargo vehicle).	Integer >= 0
8	LIN_DES	VARC	21	Y	Nomenclature (vehicle description).	Any alpha/numeric
9	MODEL_DES	VARC	12	Y	Model description.	Any alpha/numeric
10	COMP_DES	VARC	20	Y	Component description.	Any alpha/numeric
11	QUANTITY	NUMB	7	N	Vehicle quantity.	Integer >= 0
12	ROADABLE	VARC	1	N	Roadable flag (for vehicles only) (R = roadable, N =non-roadable).	Alpha: R or N
13	EQUIP_CODE	VARC	1	N	Equipment code to distinguish type of equipment.	Valid on EQUIP_CODES.EQUIP_CODE
14	LENGTH	NUMB	5	N	Item length in inches	Integer >= 0
15	WIDTH	NUMB	5	N	Item width in inches	Integer >= 0
16	HEIGHT	NUMB	4	N	Item height in inches	Integer >= 0
17	WEIGHT	NUMB	7	N	Item weight in pounds	Integer >= 0
18	CUBE	NUMB	7	N	Item cubic feet	Integer >= 0
19	MAX_CARGO_HEIGHT	NUMB	4	N	Maximum height of loaded vehicle in inches.	Integer >= 0

Table name: VEHCAR_VHL (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
20	PARENT_INDEX	VARC	2	N	Index number or parent index number for components (null for components of assembled data items	Any alpha/numeric
21	PARENT_EQUIP	VARC	1	N	Equipment code or parent equipment code for components.	Any alpha/numeric
22	PARENT_LENGTH	NUMB	5	N	Length or parent length for components (in inches)	Integer >= 0
23	PARENT_WIDTH	NUMB	5	N	Width or parent width for components (in inches)	Integer >= 0
24	PARENT_HEIGHT	NUMB	4	N	Height or parent height for components (in inches)	Integer >= 0
25	PARENT_WEIGHT	NUMB	7	N	Weight or parent weight for components (in pounds)	Integer >= 0
26	AVAIL_WT	NUMB	6	N	Cargo capacity weight still available for loading (in pounds).	Integer >= 0
27	AVAIL_CUBE	NUMB	8	N	Cargo capacity cube still available for loading (in cubic feet).	Integer >= 0
28	LOADED_WT	NUMB	6	N	Total weight in pounds of vehicle load (equipment, aggregate equipment, supplies, ammunition, CONEX insert boxes, and pallets).	Integer >= 0
29	LOADED_CUBE	NUMB	8	N	Total cubic feet of vehicle load (equipment, aggregate equipment, supplies, ammunition, CONEX insert boxes, and pallets).	Integer >= 0
30	VC_AGG_WT	NUMB	6	N	Weight in pounds of aggregate equipment loaded in vehicle (NOT including aggregated CONEX insert box equipment).	Integer >= 0
31	VC_AGG_CUBE	NUMB	8	N	Cubic feet of aggregated equipment loaded in vehicle (NOT including aggregated CONEX insert box equipment).	Integer >= 0
32	VC_CONEX_WT	NUMB	6	N	Weight in pounds of aggregated CONEX insert box equipment loaded in vehicle.	Integer >= 0

Table name: VEHCAR_VHL (continued)

Col Num	Column Name	Data Type	Wdt	N	Column Description	Range of Values
33	VC_CONEX_CUBE	NUMB	8	N	Cubic feet of aggregated CONEX insert box equipment loaded in vehicle.	Integer >= 0
34	VC_SUP_WT	NUMB	6	N	Weight in pounds of accompanying supply loaded in vehicle.	Integer >= 0
35	VC_SUP_CUBE	NUMB	8	N	Cubic feet of accompanying supply loaded in vehicle.	Integer >= 0
36	VC_AMO_WT	NUMB	6	N	Weight in pounds of ammunition loaded in vehicle.	Integer >= 0
37	VC_AMO_CUBE	NUMB	8	N	Cubic feet of ammunition loaded in vehicle.	Integer >= 0
38	PALLET_WT	NUMB	4	N	Weight in pounds of one empty pallet.	Integer >= 0
39	PALLET_COUNT	NUMB	4	N	Number of pallets loaded in vehicle.	Integer >= 0
40	CONEX_CONTAINER_WT	NUMB	4	N	Weight in pounds of one empty CONEX insert box.	Integer >= 0
41	CONEX_CONTAINER_COUNT	NUMB	4	N	Number of CONEX insert boxes loaded in vehicle.	Integer >= 0
42	CARGO_CODE	VARC	2	Y	Cargo code indicating type of cargo or asset.	Valid on CARGO_CODES.CARGO_CODE
43	SRC_PARA	VARC	2	Y	SRC paragraph number or TAEDP fiscal year (null if not applicable).	Valid on UEF.SRC_PARA

This page left intentionally blank.

5. Database Software Units

The software units described in this section are used to access and/or manipulate the ELIST database in the various segments.

The Oracle relational database management system (RDBMS) release 8.1.6 provides the basic software for database access and management.

The majority of database access by the ELIST application is accomplished through the use of the Java classes defined in the Java Database Connectivity (JDBC) tool. These classes are defined in Oracle's documentation: *Oracle8i JDBC Developers Guide and Reference, Release 2 (8.1.6)*. JDBC is based on the X/Open SQL Call Level Interface and complies with the SQL92 Entry Level standard.

In addition, Oracle8 Utilities, as described in Oracle Corporation documentation: *Oracle8i Utilities Release 2 (8.1.6)*, are used to support various ELIST application operations. The specific Oracle Utilities used are IMPORT, EXPORT, and SQL*Loader. In the case of SQL*Loader, specific scripts are used; however, the scripts used in conjunction the Oracle IMPORT and EXPORT utilities are generated by the ELIST application as needed for specific operations and are not saved as a regular script for reuse. The SQL*Loader scripts and the SQL scripts they use are described below:

- **import_tucha_flat**: Script that calls SQL*Loader to load in the TUCHA file from standard ASCII formats and then calls SQL programs to update all the relationships in the database,
    - **update_tucha.sql**
- **load_MIDAS_script**: Script that calls SQL*Loader to load in the MIDAS model output data from standard ASCII formats and then calls SQL programs to update all the relationships in the database,
    - **delete_jfast_projection.sql**
- **load_b8_script**: Script that calls SQL*Loader to import standard B8 ASCII files into the ETPFDD tables and then calls SQL programs to update all the relationships in the database,
    - **update_b8.sql**
- **load_geofile_script**: Script that calls SQL*Loader to load in the GEOFILE from standard ASCII formats and then calls SQL programs to update all the relationships in the database.
- **Strat_load_script**: Script that is called after Pirate is run and loads the results into the ETPFDD by calling the Oracle IMP utility and then running the update_strat_load.sql script,
    - **update_strat_load.sql**
- **load_jfast_script**: Script that calls SQL*Loader to load in the JFAST model output data from standard ASCII formats and then calls SQL programs to update all the relationships in the database.
    - **delete_jfast_projection.sql**

The Oracle functionality for SQL*Plus is also used in the ELIST Software Segment for database access and manipulation. There are specific shell scripts for use in the SQL*Plus tool. The shell scripts and the SQL scripts they use are as follows:

- **dump_b8_script**: Takes the ETPFDD information from the database and creates a standard B8 format ascii file of the TPFDD.
  - **dump_b8.sql**
  - **dump_b8_select.sql**
- **expand_script**: Script that calls various the STLD and VEHCAR modules of the TARGET program and calls SQL programs to update the database.
  - **add_tucha4.sql**
  - **del_tucha_4_and_6.sql**
  - **ins_expand.sql**
  - **ins_portsim_dates.sql**
  - **ins_setup.sql**
  - **load_to_target_234.sql**
  - **load_to_target_234_all.sql**
  - **load_to_target_234_const.sql**
  - **load_to_target_4.sql**

The ELIST Database Segment uses the following SQL*Plus scripts during the installation and deinstallation of the segment (and, thereby, the creation and removal of the database):

- **make_elist_tables.sql**: Creates the ELIST tables owned by ELIST
- **make_etpfdd_tables.sql**: Creates the ETPFDD tables owned by ETPFDD
- **make_target_tables.sql**: Creates the TARGET tables owned by ETPFDD
- **drop_elist_tables.sql**: Drops the ELIST tables owned by ELIST
- **drop_etpfdd_tables.sql**: Drops the ETPFDD tables owned by ETPFDD
- **drop_target_tables.sql**: Drops the TARGET tables owned by ETPFDD
- **create_role.sql**: Creates a user role, either ELIST_USER or ETPFDD_USER, during database creation
- **drop_role.sql**: Drops a user role during database deletion
- **elist_grants.sql**: Assigns privileges on the ELIST tables owned by ELIST to a user role
- **etpfdd_grants.sql**: Assigns privileges on the ETPFDD tables owned by ETPFDD to a user role
- **target_grants.sql**: Assigns privileges on the TARGET tables owned by ETPFDD to a user role
- **assign_user_grant.sql** [*sic*]: Regrants a role to a database user (this is done if a new version of the segment is being installed following the deinstallation of an earlier version; the roles were automatically revoked during that deinstallation as a byproduct of dropping the roles)
- **disconnect_user.sql**: Revokes the CONNECT privilege from a DBO account at the end of database creation
- **reconnect_user.sql**: Regrants the CONNECT privilege to a DBO account at the start of database deletion
- **list_users2.sql**: Determines the user accounts that have the given user role (ELIST_USER or ETPFDD_USER)
- **list_users1.sql**: A wrapper around the previous script that turns echoing off, so that the set of users can be cleanly and conveniently obtained from the spool output

- **check_roles.sql**: Checks, during deinstallation, whether the given role (ELIST_USER or ETPFDD_USER) was created during the preceding installation; if not, the processing involving list_users1.sql and list_users2.sql is omitted

The ELIST Database Utility Segment uses the following SQL*Plus scripts to perform administrative functions on database accounts:

- **create_user.sql**: Creates an ELIST database user account
- **assign_user_grants.sql**: Assigns user roles (ELIST_USER and ETPFDD_USER) to a newly created user
- **make_elist_synonyms.sql**: Creates synonyms on the ELIST tables owned by ELIST for a newly created user
- **make_etpfdd_synonyms.sql**: Creates synonyms on the ETPFDD tables owned by ETPFDD for a newly created user
- **make_target_synonyms.sql**: Creates synonyms on the TARGET tables owned by ETPFDD for a newly created user
- **revoke_user_grants.sql**: Revokes the ELIST_USER and ETPFDD_USER roles from a user account that is about to be dropped
- **drop_user.sql**: Drops an ELIST database user account
- **lock_user.sql**: Locks a user account, thereby disabling it without removing it
- **unlock_user.sql**: Unlocks a user account, thereby reenabling it
- **alter_user.sql**: Changes the password of a user account
- **list_users2.sql**: Same script as in the ELIST Database Segment
- **list_users1.sql**: Same script as in the ELIST Database Segment

This page left intentionally blank.

6. Requirements Traceability

N/A.

This page left intentionally blank.

7. Notes

The following table defines the acronyms used in this document.

Acronym	Definition
ASCII	American Standard Code for Information Interchange
COE	Common Operating Environment
DBA	Database Administrator
DBO	Database Owner
DBDD	Database Design Document
DII	Defense Information Infrastructure
DISA	Defense Information Systems Agency
ELIST	Enhanced Logistics Intratheater Support Tool (DII COE segment prefix)
ETEdit	ETPFDD Editor
ETPFDD	Enhanced Time-Phased Force Deployment Data
IP	Installation Procedures
JDBC	Java Database Connectivity
JFAST	Joint Flow and Analysis System for Transportation
MB	Megabyte(s)
MIDAS	The Model for Inter-theater Deployment by Air and Sea
MTMC	Military Traffic Management Command
N/A	Not Applicable
RDBMS	Relational Database Management System
SQL	Structured Query Language
SVD	Software Version Description
TARGET	Transportability Analysis Reports Generator system
TEA	Transportation Engineering Agency
TPFDD	Time-Phased Force Deployment Data
UM	User Manual

This page left intentionally blank.

8. Acknowledgements

Argonne National Laboratory is a Federally Funded Research and Development Center operated by The University of Chicago under contract W-31-109-ENG for the United States Department of Energy.

The development of ELIST and the preparation of this document were supported by funding from the Military Traffic Management Command Transportation Engineering Agency of the United States Army.

This page intentionally left blank

9. Documentation Improvement and Feedback

Comments and other feedback on this document should be directed to:

Phone: (630) 252-5301
Fax: (630) 252-5128
Email: grobinson@anl.gov

This page intentionally left blank.

Appendix A. ELIST Database Physical Structure Charts

Physical structure charts for the ELIST and ETPFDD tables are provided in the following diagrams. The example figure shows the conventions used in the diagrams.

Tables are identified in bold text at the top of each graphic box. A partial or compete list of the data elements of the table are below the table name. The data elements that comprise the unique key for the tables have an asterisk at the beginning of the data element name. If a secondary index for performance is used in a table, the data elements that comprise the index are identified by a number following the data element name. If there are more than one performance index on a table, then each is identified by a sequential number on each of the data elements involved in the index.

In the case where only a partial list of the data elements of the table are shown, the additional elements are indicated by an ellipsis in the last line of text in the graphic box.

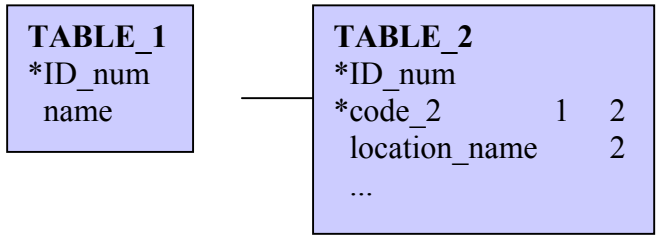

Figure 1. Example Table Diagram

The logical data flow and data relationships for ELIST and ETPFDD data are shown as well the roles that grant permissions to the tables for the user.

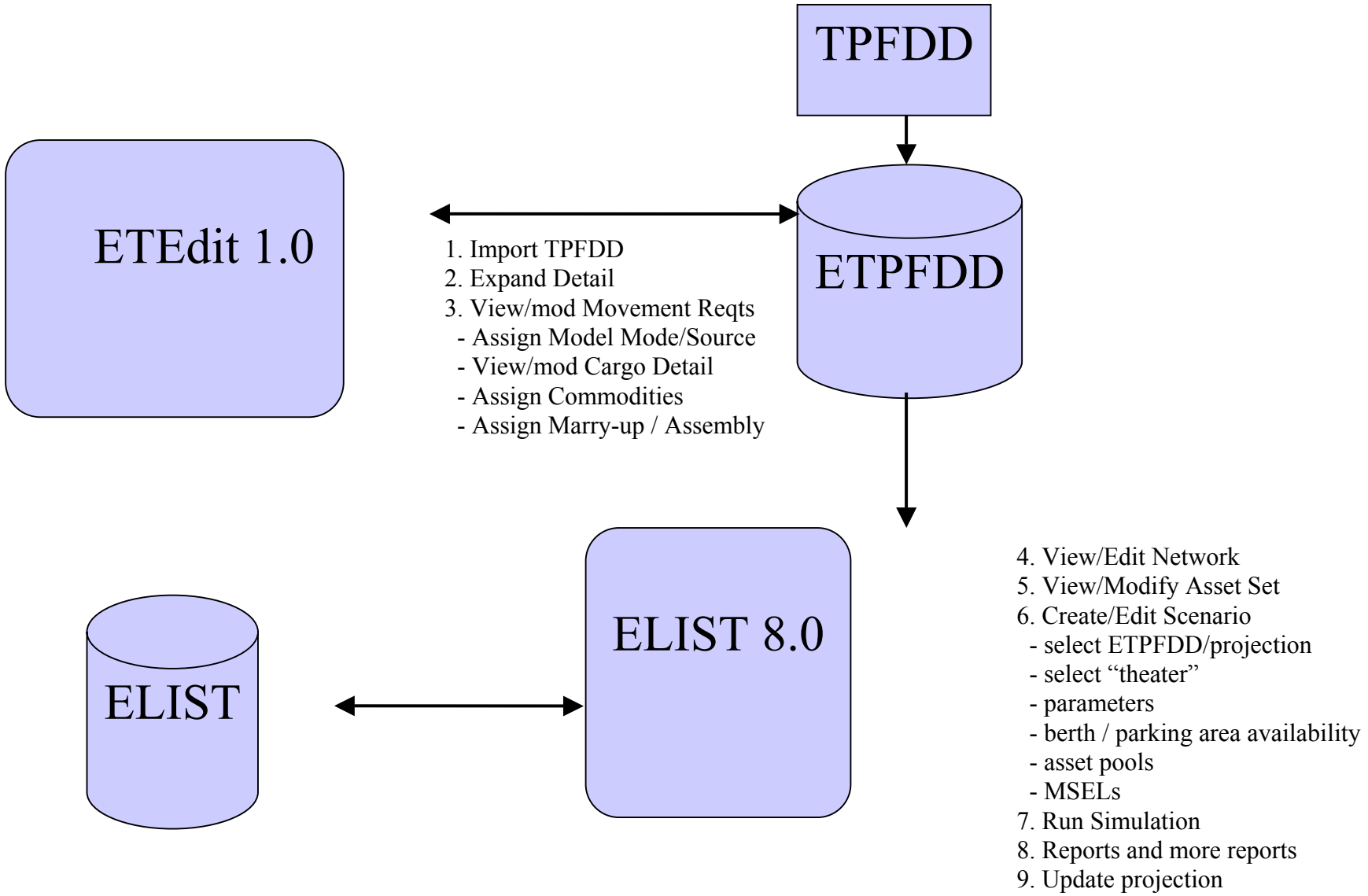

Figure 2. Data Flow in ELIST and ETEdit

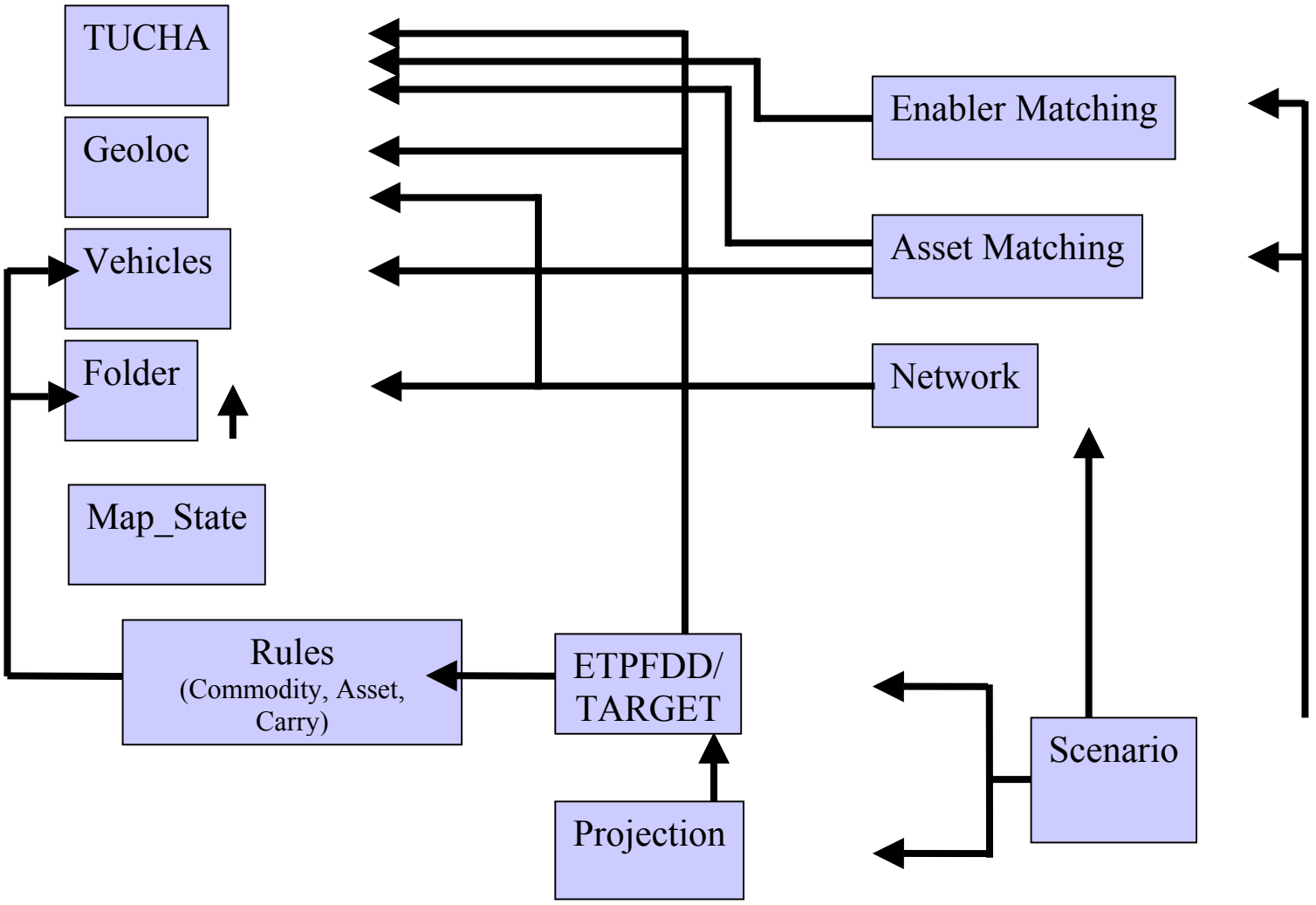

Figure 3. Data Relationships in ELIST and ETEdit

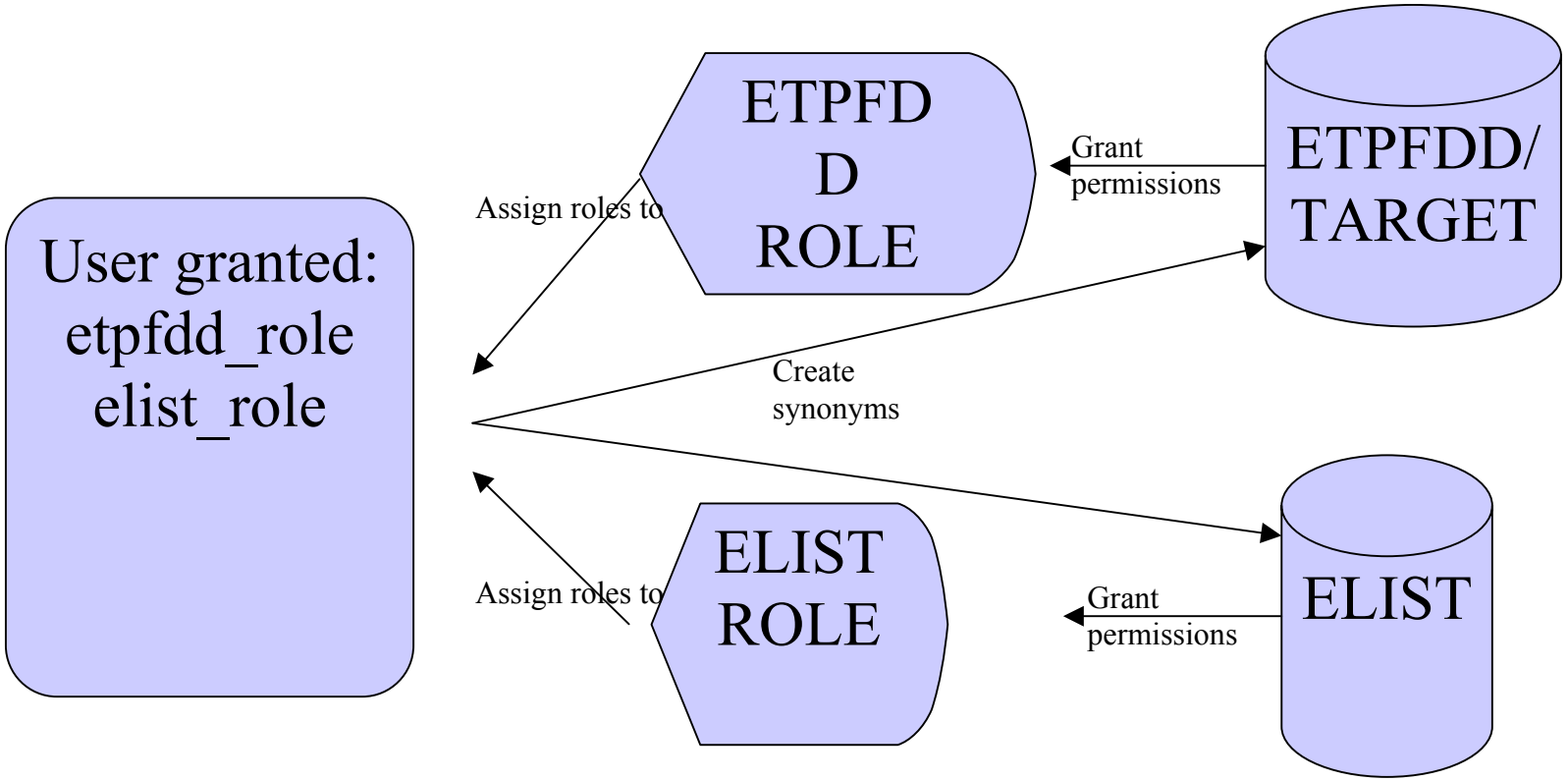

Figure 4. Roles and Permissions in ELIST, ETPFDD, and TARGET

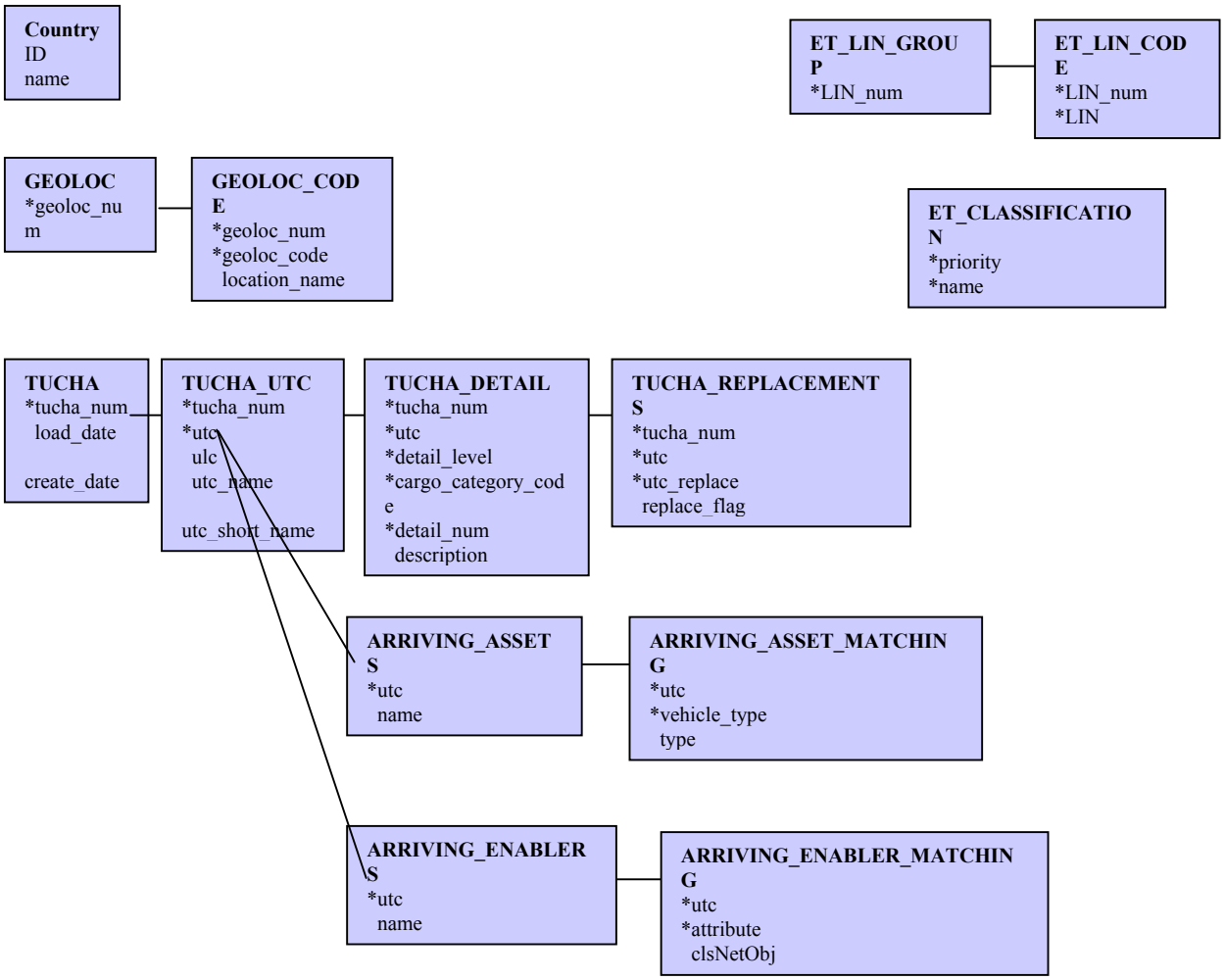

Figure 5. Reference Tables—General

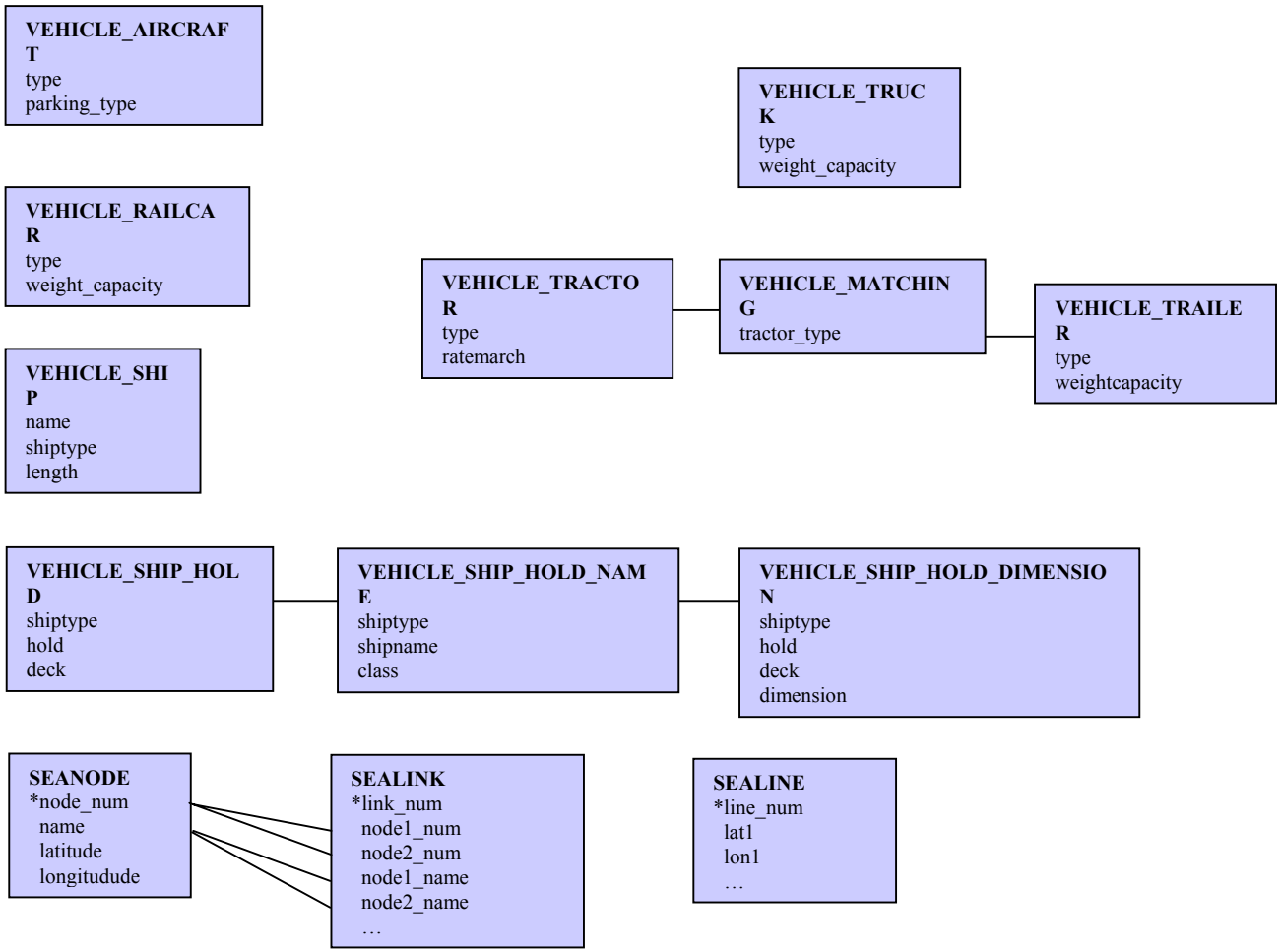

Figure 6. Reference Tables—Vehicles

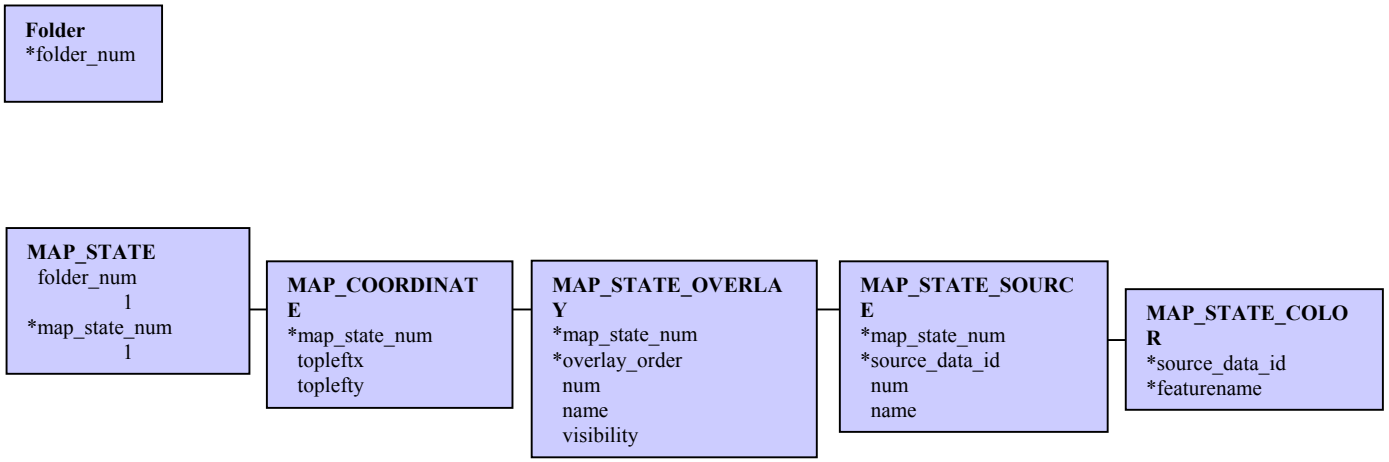

Figure 7. Reference Tables—Folder and Map_State

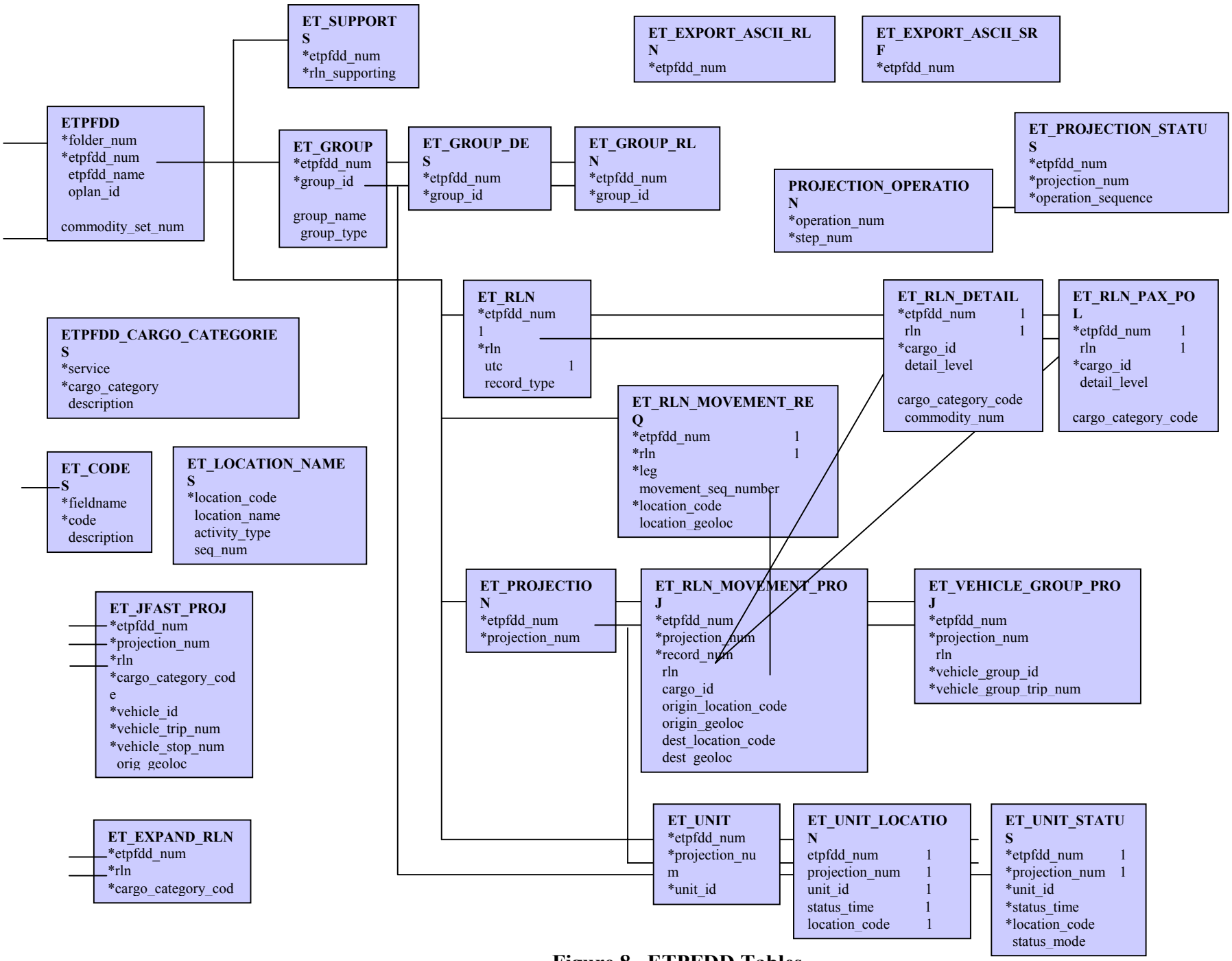

Figure 8. ETPFDD Tables

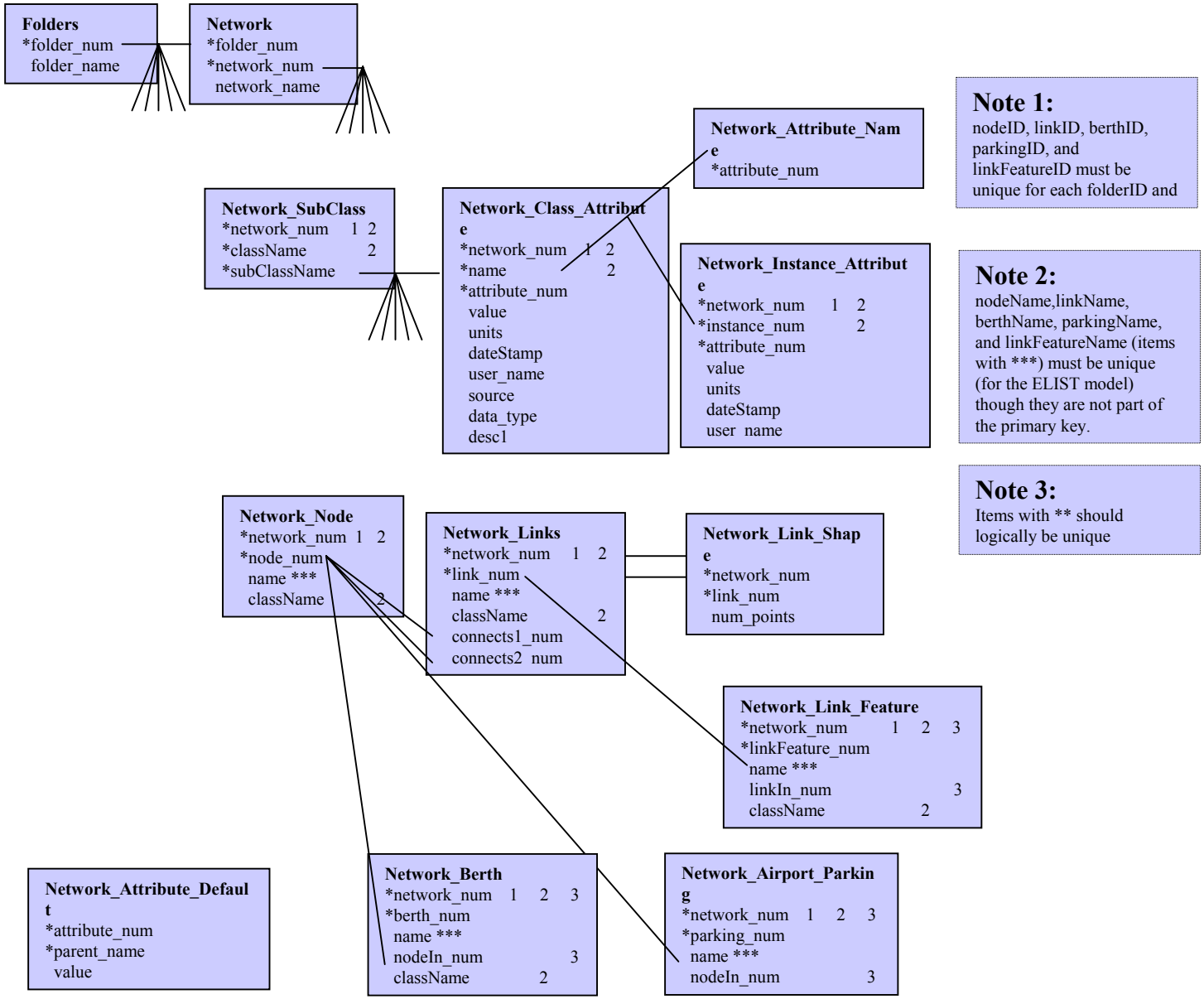

Figure 9. Network Tables

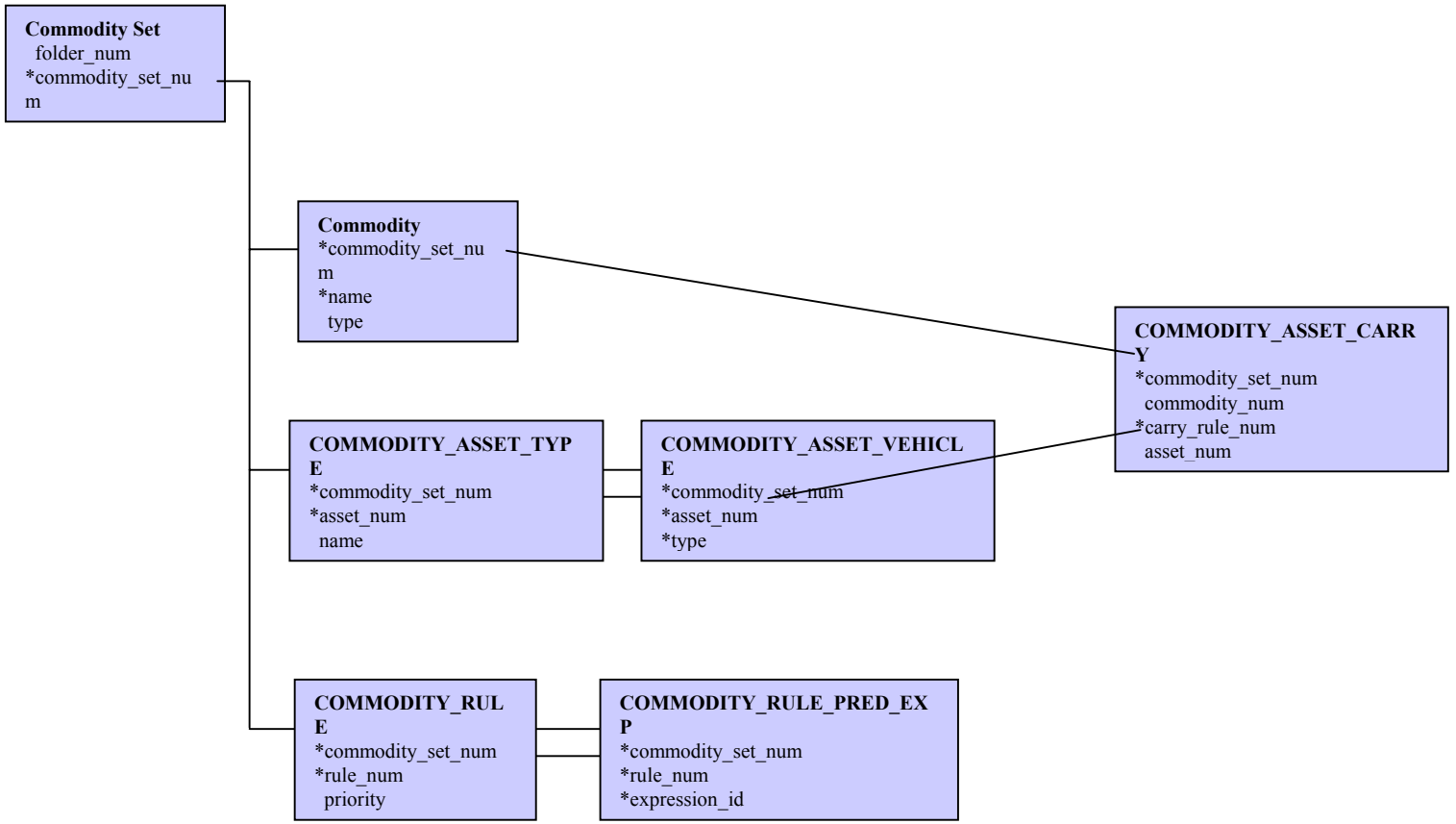

Figure 10. Rules Tables

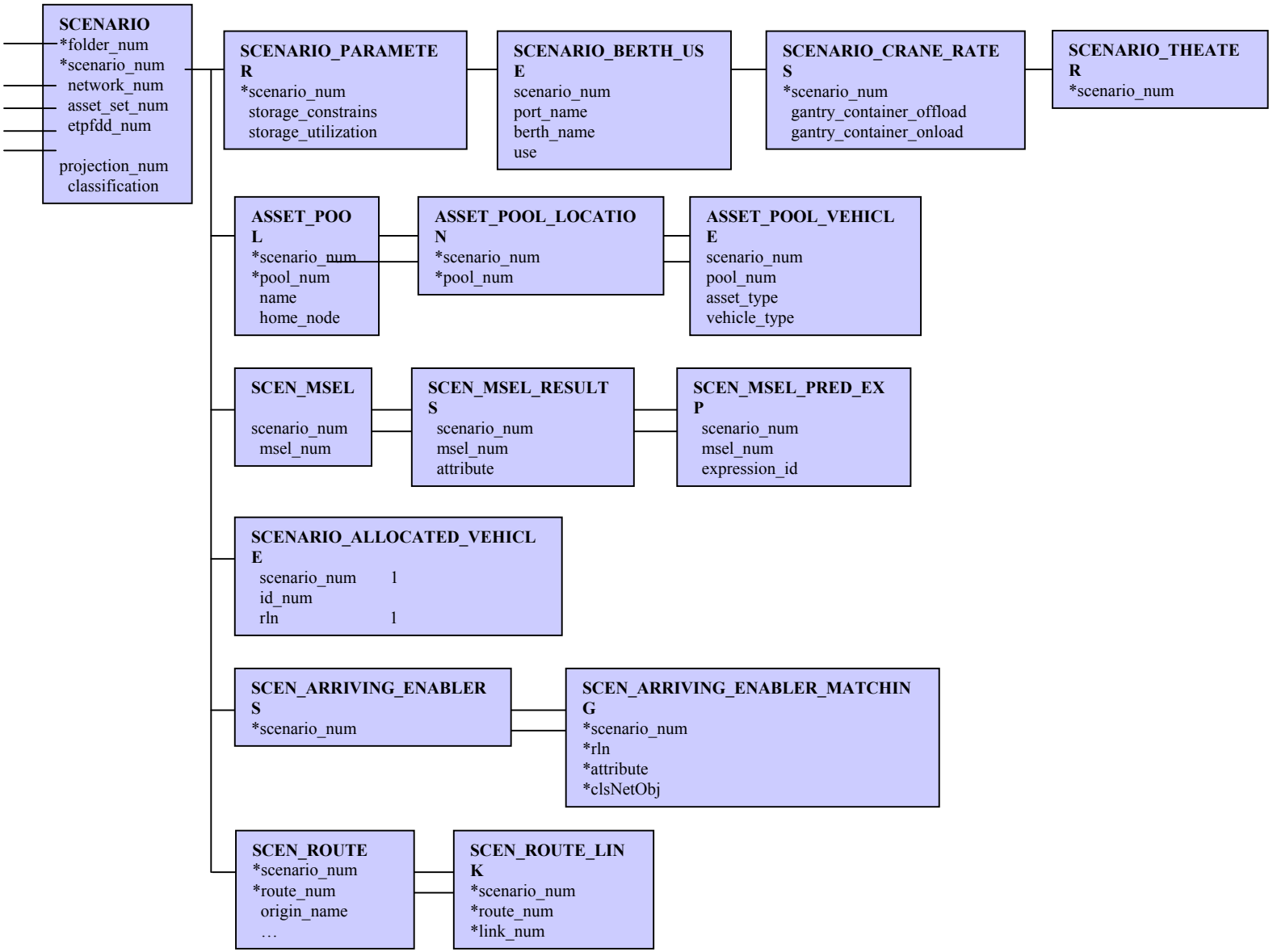

Figure 11. Scenario Tables

This page intentionally left blank.