

EDMInformation Administrator's Guide

CADD5® 5i Release 13

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Preface

EDMInformation Administrator's Guide briefly describes the following:

- Installation of the Associated Database
- Installation of EDMInformation
- EDMInformation table structure
- `.caddsrc` file setup for EDMInformation
- `.login` file setup for EDMInformation

Please note: To determine the Oracle version associated with EDMInformation, refer to the *CADDS 5i Read This First* document.

Related Documents

The following documents may be helpful as you use *EDMInformation Administrator's Guide*:

- *Understanding EDMInformation*
- *EDMInformation User Guide and Menu Reference*

Book Conventions

The following table illustrates and explains conventions used in writing about Optegra applications.

Convention	Example	Explanation
EPD_HOME	cd \$EPD_HOME/install (UNIX) cd %EPD_HOME%\install (Windows)	Represents the default path where the current version of the product is installed.
Menu selections	Vault > Check Out > Lock	Indicates a command that you can choose from a menu.
Command buttons and options	Mandatory check box, Add button, Description text box	Names selectable items from dialog boxes: options, buttons, toggles, text boxes, and switches.
User input and code	Wheel_Assy_details -xvf /dev/rst0 Enter command> plot_config	Enter the text in a text box or on a command line. Where system output and user input are mixed, user input is in bold.
System output	CT_struct.aename	Indicates system responses.
Parameter and variable names	tar -cvf /dev/rst0 filename	Supply an appropriate substitute for each parameter or variable; for example, replace filename with an actual file name.
Commands and keywords	The ciaddobj command creates an instance of a binder.	Shows command syntax.
Text string	"SRFGROUPA" or 'SRFGROUPA'	Shows text strings. Enclose text strings with single or double quotation marks.
Integer	n	Supply an integer for <i>n</i> .
Real number	x	Supply a real number for <i>x</i> .
#	# mkdir /cdrom	Indicates the root (superuser) prompt on command lines.
%	% rlogin remote_system_name -l root	Indicates the C shell prompt on command lines.
\$	\$ rlogin remote_system_name -l root	Indicates the Bourne shell prompt on command lines.
>	> copy filename	Indicates the MS-DOS prompt on command lines.
Keystrokes	Return or Control-g	Indicates the keys to press on a keyboard.

Online User Documentation

Online documentation for each Optegra book is provided in HTML if the documentation CD-ROM is installed. You can view the online documentation from an HTML browser or from the HELP command.

You can also view the online documentation directly from the CD-ROM without installing it.

From an HTML Browser:

1. Navigate to the directory where the documents are installed. For example,
\$EPD_HOME/data/html/htmldoc/ (UNIX)
%EPD_HOME%\data\html\htmldoc\ (Windows NT)
2. Click `mainmenu.html`. A list of available Optegra documentation appears.
3. Click the book title you want to view.

From the HELP Command:

To view the online documentation for your specific application, click HELP. (Consult the documentation specific to your application for more information.)

From the Documentation CD-ROM:

1. Mount the documentation CD-ROM.
2. Point your browser to:
CDROM_mount_point/htmldoc/mainmenu.html (UNIX)
CDROM_Drive:\htmldoc\mainmenu.html (Windows NT)

Printing Documentation

A PDF (Portable Document Format) file is included on the CD-ROM for each online book. See the first page of each online book for the document number referenced in the PDF file name. Check with your system administrator if you need more information.

You must have Acrobat Reader installed to view and print PDF files.

The default documentation directories are:

- \$EPD_HOME/data/html/pdf/doc_number.pdf (UNIX)
- %EPD_HOME%\data\html\pdf\doc_number.pdf (Windows NT)

Resources and Services

For resources and services to help you with PTC (Parametric Technology Corporation) software products, see the *PTC Customer Service Guide*. It includes instructions for using the World Wide Web or fax transmissions for customer support.

Documentation Comments

PTC welcomes your suggestions and comments. You can send feedback electronically to doc-webhelp@ptc.com.

Installing EDMInformation

This chapter provides information on installing your associated database and EDMInformation.

- Preparing for EDMInformation Installation
- EDMInformation Administration Functions Menus
- Installation Option
- Setup and Maintenance Option
- Administrative Utilities Option
- Administrative Queries Option
- Installing DBMSNet
- Setting Up Environmental Variables

Preparing for EDMInformation Installation

This section contains information regarding the prerequisites for the installation of EDMInformation.

Prerequisites for Installation of EDMInformation

EDMInformation comprises three major software components. One component resides in the CADDSS executable allowing access to EDMInformation features in the CADDSS explicit environment. The second component is the DBMSNet network software which allows client-server communication. The third component is the ORACLE™ RDBMS where the associated database resides.

Installing ORACLE

Oracle must be installed prior to installing EDMInformation.

For Oracle installation instructions, see the Oracle documentation set.

If Oracle is already installed, make sure additional rollback segments have been created and enabled to support tablespaces. When using the default Oracle installation procedure, there is only one rollback segment created. There must be at least 2 rollback segments created to support tablespace creation.

Customizing ORACLE for use with EDMInformation

Once Oracle has been Installed, your Oracle database administrator must setup user accounts for EDMInformation users and tablespaces for the associated database tables.

ORACLE Tablespaces

By default, tables will be created in the Oracle system tablespace. However, for ease of system maintenance, it is recommended that the EDMInformation tables reside in a separate tablespace other than the system tablespace.

ORACLE User Accounts

In addition to the associated database user account, each EDMInformation user must also have his/her own Oracle user account. Each user account will own a temporary work table used by EDMInformation to exchange information between the CADDSS models and the associated database tables. Each user account should be altered to use the previously created tablespace.

EDMInformation Demonstration Database

A demonstration database is provided with EDMInformation. The following Oracle user accounts must be setup prior to installing the demonstration database:

- `demo_cadds` - Owns EDMInformation tables for all projects.
- `user1` - Owns a work table, accesses EDMInformation tables.

Using the EDMInformation Support Library

Two libraries are provided with EDMInformation for installing, using, and maintaining the associated database. Becoming familiar with these libraries can be helpful when installing and customizing EDMInformation.

Please note: The EDMInformation support library is shipped on the CADDSS distribution media.

ORACLE Library

This library contains helpful administrative queries and installation scripts for working with EDMInformation and Oracle. These are provided for your convenience and do not represent the only way to configure your Oracle installation.

EDMInformation Library

The EDMInformation library can be found under the following directory:

```
/usr/apl/cadds/src/data/info
```

This library contains helpful administrative queries and installation scripts for working with EDMInformation. In addition, this library contains a demonstration database, CADDSS models, and a demonstration execute file which demonstrates the basic concepts of EDMInformation.

The `/usr/apl/cadds/data/info/admin` subdirectory contains SQL queries for EDMInformation system administration.

The `/usr/apl/cadds/data/info/install` subdirectory contains installation scripts for installing the EDMInformation associated database and the EDMInformation demonstration database.

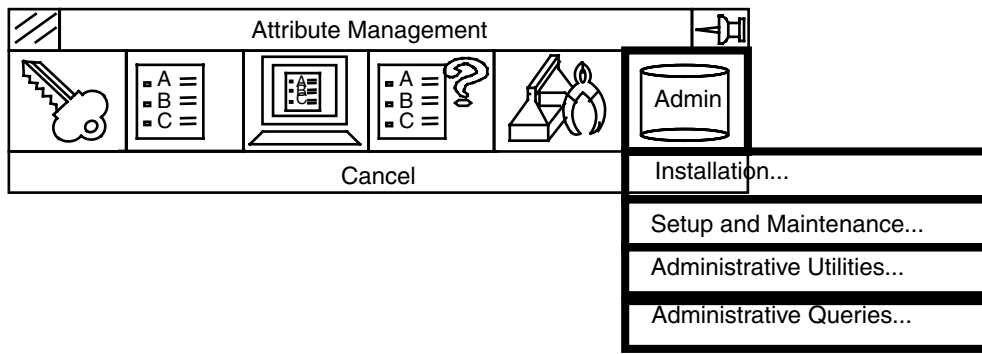
The `/usr/apl/cadds/data/info/demo` subdirectory contains the EDMInformation demonstration parts, scripts, and execute files.

EDMInformation Administration Functions Menus

To access the Administration Functions of EDMInformation, select the Utility option from the top bar of the CADDs Explicit environment. On the menu that appears, select ATTRIBUTE MANAGEMENT.

The system displays the Attribute Management command palette. Selecting the Administration button (on the far right) displays the four Administration options (see the figure).

Figure 1-1 Attribute Management Palette Displaying Options from Administration Pushbutton



General Information about Administration Property Sheets

The options you select or values you enter in any of the Administration property sheets options do not take effect until you select Apply at the bottom of the property sheet. This feature allows you to review and change your choices before you enable the property sheet to perform its functions.

If a pushbutton option is accompanied by an Options... box, first select the button, then select Options.... An additional property sheet appears on which you supply information. Confirm your choices by selecting Accept at the bottom of the property sheet.

Installation Option

Selecting the Installation option from the Administration menu displays the following property sheet:

Attribute Management Installation Property Sheet: Requirements

Before you can select a pushbutton to install or load any of the items listed, you must enter:

- An Attribute Management Data Base Administrator User ID and password. A list of associated database users appears when you select the... box next to the DBA User ID: field. Select only one.
- A CADDSS User ID and password. A list of associated database users appears when you select the... box next to the User ID: field. Select only one.

Installation and Load Options

Select the pushbutton for the installation option you want. Below are the options in the Administration Property Sheet and what they do:

1. Install Attribute Management Tables selects the EDMInformation Associated Database tables to be installed.
2. Install Attribute Management User Tables displays the Install User Tables property sheet, which lists Associated Database users. You can select one or more users.
3. Install Corporate Database Views displays the Install Corporate Database Views property sheet. On this property sheet you must supply a Corporate Database Table Owner ID and a table name before you can select the associated database user(s) from the list.
4. Load CADDs Attribute File selects the attribute file `/usr/ap1/cadds/data/_bcd/prop` to be installed in `CV_PROPERTY_TBL`.
5. Install Attribute Management Demo selects the EDMInformation demonstration database to be installed. This button is on by default.

Setup and Maintenance Option

Selecting the Setup and Maintenance option displays the following property sheet:

Setup and Maintenance Property Sheet: Requirements

Before you can select a pushbutton for any of the setup or maintenance choices listed, you must supply an Attribute Management Data Base Administrator User ID and password. A list of associated database users appears when you select the... box next to the DBA User ID: field. Select only one.

When your choices on the Setup and Maintenance property sheet are complete, select Apply to begin setting up the item(s) you selected.

Setup and Maintenance Options

Each setup and maintenance option displays an additional property sheet, with which you can do the following:

1. Data Dictionary Setup add or delete entries in the Data Dictionary Tables. You can add or delete a corporate table, or add or delete fields in a table you specify.
2. Operational Parameters Setup adds or deletes EDMInformation Operational Parameters, including Parameter ID, Value, Description, and User ID.

3. Group Setup adds or deletes a group, or modifies the group you specify by adding or deleting members from it. You supply the Group ID; the group candidates list displays users that are not part of the group; group members displays users that are part of the group.
4. Add/Delete a Project creates, deletes, or edits a project.
5. Add/Delete User Tables adds or deletes Attribute Management users. You must supply a valid CADDIS User ID and password.

Administrative Utilities Option

Selecting the Administrative Utilities option displays the following property sheet.

Administrative Utilities Property Sheet: Requirements

Before you can select a pushbutton for any of the unlink or delete choices listed, you must supply an Attribute Management Data Base Administrator User ID and password. A list of associated database users appears when you select the... box next to the DBA User ID: field. Select only one.

Administrative Utilities Options

You can select only one of the following options:

1. Unlink Part from the Associated Database - Select the part(s) you want to unlink from the Part Names box.
2. Delete Associated Database Entries by Part Name - Select the part name for which you want to delete associated database entries.
3. Delete Associated Database Entries by User ID - Enter a User ID in the field. A list of users appears when you select the... box next to the User ID: field. Select only one.

Selecting More than One Option: To perform more than one of the functions listed above, select one, supply necessary information, then select **Apply**. You must display the Administrative Utilities property sheet again by selecting it from the Administration menu, and make your next selection.

Administrative Queries Option

Selecting the Administrative Queries option displays the following property sheet:

The screenshot shows a dialog box titled "Administrative Queries". It contains the following fields and controls:

- Query Name:** A text input field with a "..." button to its right.
- Results Destination:** A section containing three radio button options:
 - Display in Result Box
 - Send to File: Includes a "Name:" label and a text input field with a "..." button.
 - Send to Device: Includes a "Name:" label and a text input field.
- Apply Filter Conditions: Includes an "Options..." button.

At the bottom of the dialog are three buttons: "Apply", "Reset", and "Cancel".

Administrative Queries Property Sheet: Requirements

Provide the name of the Query file you want to run in the Query Name : field. Selecting the... box next to the field displays a file name editor property sheet, from which you can select one query file name from any directory. If you do not specify a query file name, the default used will be the first query found under the directory:

```
/usr/apl/cadds/data/info/admin
```

Administrative Queries Options

Select the destination for the results of running the query:

1. Display in Result Box - System automatically enters results in a matrix format in the Query Results box.
2. Send to File - Enter the file name. Default file name is `/usr/tmp/results.txt`
3. Send to Device - Enter the name of the device. Default device name is `lpr`

Using a Filter for Your Queries: The Apply Filter Conditions option displays a property sheet on which you can choose to filter options by user ID, project ID, part name, and/or an SQL “where” clause. Select the pushbutton for the Filter and make your choices before selecting the Apply button.

Installing DBMSNet

Updating the RPC (Remote Procedure Calls) System File

Add the DBMS network daemon to `/etc/rpc`

```
dbmsnetd          300007          DBMS network daemon
```

Please note: This must be added to the master copy if running under NIS.

Starting the DBMS Process Daemon

To access the DBMS process, modify the `/etc/rc.local` file on all systems that use the process to start the DBMS daemon when the systems are rebooted.

```
DBMS daemon startup
if [-f /usr/apl/cadds/bin/DBMS]; then
(/usr/apl/cadds/bin/DBMS&) ; \
(echo 'DBMS')                >/dev/console
fi
```

Please note: If `sqlnet` is not used, start the process on the database server only.

Setting Up Environmental Variables

Setting Up the .login File for EDMInformation

To use EDMInformation, include the following environmental variables in the `.login` file of each user.

```
setenv NLSPATH usr/apl/cadds/data/reposit/C/%N.cat
```

Setting Up the .caddsrc File for EDMInformation

To use EDMInformation commands, be sure the following variables are included in each user's `.caddsrc` file. The template for the `.caddsrc` file is in the directory `/usr/apl/cadds/data/scripts/templates/.caddsrc`.

A duplicate of that file is presented here for your reference, which shows the variable name, a description, and the syntax.

DBMS_HOST

`DBMS_HOST` specifies the name of the system on which the DBMS process is running. The DBMS process is required to use EDMInformation.

Setting the `DBMS_HOST` environment variable also specifies that the DBMS process will be used to communicate from EDMInformation to the RDBMS.

It is not required that the DBMS process be running on the RDBMS server. However, if it is not, the networking software provided with the RDBMS must be installed and running.

```
setenv DBMS_HOST      'hostname'
```

DBMS_TASK

The `DBMS_TASK` environment variable sets the cadds task for the DBMS process. The default is 0.

For “standalone” configurations where the RDBMS is installed locally, this variable does not need to be set.

For “multi-user” configurations that share the same DBMS process, the value must be unique for each system. Otherwise the `caddstask` or `$CADDUSER` value is sufficient.


```
setenv DBMS_TASK      'caddstask'  
setenv DBMS_TASK $CADDUSER
```

DBMS_ARRAY_SIZE

The `DBMS_ARRAY_SIZE` environment variable specifies the number of records retrieved at a time from the RDBMS for large queries. This can be used to tune the performance based on the database size.

A large number increases the performance of queries that retrieve many records, but decreases the performance for queries that retrieve few records.

```
setenv DBMS_ARRAY_SIZE  '100'
```

INFO_PASSWD

The `INFO_PASSWD` environment variable specifies the userid and password of the RDBMS account who owns the associated database tables.

```
setenv DBMS_PASSWD 'demo_cadds/demo_cadds'
```

SCRIPTS_PROCESS

The `SCRIPTS_PROCESS` environment variable specifies whether or not to start the `CADDSCRIPT` process which allows EDMInformation to communicate to the DBMS process which in turn communicates to the RDBMS. This is required in order to use EDMInformation commands.

```
setenv SCRIPTS_PROCESS  'yes'
```

SCRIPTS_TOOL

The `SCRIPTS_TOOL` environment variable specifies the toolname, e.g. `shelltool`, `cmdtool`, `xterm`, etc., to be used to interact with the `CADDSCRIPT` process from the `CADD` work session. The default is to run the process in background. Interactive processing is only available if the script is run within a tool. The tool specified actually starts the `CADDSCRIPT` process. `"CADDSCRIPTS"` plus the process id (pid) are programmatically added to the `SCRIPTS_TOOL` argument. Therefore it is mandatory to include the appropriate entry to the end of the tool argument to execute the command. For example, the `xterm` argument is `"-e"` and must be the last argument in the command line.

```
setenv SCRIPTS_TOOL  'shelltool -Wi'  
setenv SCRIPTS_TOOL  'xterm -fn "fixed" -bg "4A3D8A3D91EB" -fg  
"FFFFFFFFFFFFFFF"  
-n "C5 IPC" -T "CADD5 IPC Window" -iconic -sb -e'
```

SCRIPTS_RPC

The `SCRIPTS_RPC` environment variable specifies the RPC program number used to communicate with the `CADDSCRIPTS` process. It consists of a fixed number plus a unique two digit value provided by the `caddstask` command.

```
setenv SCRIPTS_RPC 200050`caddstask`
```

EDMInformation Tables Setup

This chapter describes the EDMInformation table setup.

- EDMInformation Tables
- Linking Data

EDMInformation Tables

Table Description

The following convention has been used for field naming: all field names are prefixed by a mnemonic that identifies the table, followed by the true field name. You can link tables using common fields.

For example, field names `APPL_PARTID` and `ATT_PARTID` refer to the same object. You can link these two tables using these fields.

The following table descriptions are maintained by EDMInformation and other EDMApplication packages. You can reference, but do not modify these tables by user applications.

Hooks are provided by which user tables can be tied in.

CV_APPLICATION_LINK_TBL TABLE

This table maps the correspondence of CADDs entities linked in application tables. The mask field identifies which applications are linked.

All entities with attribute data have a corresponding entry here. Similarly, all entities that have been linked into the `pi_object_tbl` have an entry here.

NAME	TYPE	DESCRIPTION
APPL_PARTID	NUMBER	Part identifier
APPL_CADDsUID	NUMBER	CADDs unique identifier
APPL_MASK	NUMBER	Application mask
APPL_STATUS	NUMBER	Application status
APPL_SNAPFROM	NUMBER	From snapshot
APPL_SNAPTO	NUMBER	To snapshot

CV_ATTRIBUTE_TBL TABLE

This table contains external attribute data. It is populated by the link attributes function. Attributes can be associated to individual entities.

In order to reduce space, data are related to a range of snapshots. (For more information on snapshots refer to *Understanding EDMControl*.) A new range is created only when the attribute value changes.

When a new attribute is linked into this table, an appropriate entry is written into the Dictionary table. This allows the data to be accessed immediately by Report and Mark functions. Status flags are: 0 existing, 1 New, 2 Deleted, 4 original, 8 updated.

NAME	TYPE	DESCRIPTION
ATT_PARTID	NUMBER	Part identifier
ATT_CADDSUID	NUMBER	CADDS unique identifier
ATT_MASK	NUMBER	Application mask
ATT_STATUS	NUMBER	Application status
ATT_SNAPFROM	NUMBER	From snapshot
ATT_SNAPTO	NUMBER	To snapshot
ATT_NAME	CHAR(10)	Attribute name
ATT_VALUE	CHAR(40)	Attribute value
ATT_STATUS	NUMBER	Status
ATT_SEQUENCE	NUMBER	Sequence number

CV_DATA_SET_TBL TABLE

This table complements the data format of the work table as used by DUMP/CONSTRUCT AENTITY. It maps into the subrecord and MI block descriptions of the CADDS database. The data set identity is the MI block/subrecord number.

NAME	TYPE	DESCRIPTION
DS DSID	NOT NULL NUMBER	Data set Identity
DS_DSNAME	NOT NULL CHAR(8)	Data set name
DS_DSDESCR	CHAR(60)	Data set name

CV_DICTIONARY_TBL TABLE

This table describes attribute related tables. It is used to create dynamic queries, which can be used to report, annotate, and mark EDMInformation and user attribute data.

EDMInformation attribute records are created when new attributes are linked.

NAME	TYPE	DESCRIPTION
TL TABLENAME	CHAR(40)	Table menu
TL_FIELDNAME	CHAR(40)	Field name
TL_CONNECTNAME	CHAR(40)	Connect name (field)
TL CONDITION	CHAR(240)	Table condition
TL TLDESCR	CHAR(50)	Field description

CV_ENTITY_TBL TABLE

The entity table is a generic CV table applicable to all projects. Its primary use is for EDMControl, however it can be used to Identify the entity type from the number, when used with the dump and construct functions.

NAME	TYPE	DESCRIPTION
ENTITY_ENTTYPE	NOT NULL CHAR(8)	Entity type
ENTITY_ENTNUM	NOT NULL NUMBER(3)	Entity name
ENTITY SETUSAGE	NOT NULL CHAR(1)	Entity usage

CV_GROUP_TBL TABLE

When parts are linked into the database, they are associated with either a user or a group. This information is used to restrict the users who are allowed to modify any of the tables using EDMInformation or EDMControl.

NAME	TYPE	DESCRIPTION
GROUP_GROUPID	NOT NULL CHAR(12)	Group name
GROUP_USERID	NOT NULL CHAR(12)	User name

CV_PARAMETER_TBL TABLE

The parameter table is used similarly to environment variables. By default this table contains all valid parameters. These data are default for all users unless overridden for individual users with the userif field.

Prior to a part being filed or quit, the appropriate scripts are executed. By examining the attribute and application link tables, it is possible to synchronize user tables with changes made during the current CADDs session.

NAME	TYPE	DESCRIPTION
PARAM_PARAMID	NOT NULL CHAR(12)	Parameter identity
PARAM_PARAMVALUE	CHAR(40)	Parameter value
PARAM_PARAMDESCR	CHAR(50)	Parameter description
PARAM_USERID	CHAR(12)	User name

PARAMID	PARAMVALUE	PARAMDESCR
CI_CC	NO	EDMControl enabled
CI_EDM	NO	EDM enabled
CI_FILE	SCRIPT	Script executed when part is filed
CI_QUIT	SCRIPT	Script executed when part is quit
CI_VERIFY	SCRIPT	Script executed when part is verified

CV_PART_TBL TABLE

The part table contains generic information used by all applications. Much of the information contained in this table is not used by EDMInformation.

These data are created when the part is linked. Status flags are:
0 existing, 1 New, 2 Deleted, 4 original, 8 updated.

NAME	TYPE	DESCRIPTION
PART_PARTID	NOT NULL NUMBER	Part identifier - Unique sequence created by the system. It forms a common id shared by many of the tables.
PART_SNAPSHOT	NOT NULL NUMBER	Current snapshot - Updated by EDMControl. Data are tied to a range of snapshots. Parameter value
PART_PROJID	NOT NULL CHAR(8)	Project name
PART_PARTNAME	NOT NULL CHAR(74)	Part name - This is the relative part name used by activate part - It is in CGOS format
PART_USERID	NOT NULL CHAR(12)	User name - Owner
PART_GROUPID	CHAR(12)	Group name- Members of this group may modify related DBMS data. See CV_GROUP_TBL.
PART_UNITS	NOT NULL CHAR(12)	Part units - Offsets and extents are in these units.
PART_XORG	NOT NULL NUMBER	X project offset
PART_YORG	NOT NULL NUMBER	Y project offset
PART_ZORG	NOT NULL NUMBER	Z project offset

NAME	TYPE	DESCRIPTION
PART_STATE	NOT NULL NUMBER	State flag
PART_UNITS	NOT NULL NUMBER	Lock flag - Locked for review (EDMControl)
PART_REEXTRACT	NOT NULL CHAR(1)	Attraction flag (EC)
PART_SECURITYID	NOT NULL NUMBER	Security no. - Unique transaction number, updated when any part / entity related data are modified within the DBMS.
PART_MINX	NOT NULL NUMBER	Min. local X extent
PART_MAXX	NOT NULL NUMBER	Max. local X extent
PART_MINY	NOT NULL NUMBER	Min. local Y extent
PART_MAXY	NOT NULL NUMBER	Max. local Y extent
PART_MINZ	NOT NULL NUMBER	Min. local Z extent
PART_MAXZ	NOT NULL NUMBER	Max. local Z extent
PART_MASK	NUMBER	Application mask - Contains bit mask of all applications to which the part is linked.
PART_STATUS	NOT NULL NUMBER	Status - Data are committed to the database at the successful completion of a function or after all writes to the database (autocommit). CADDs parts however are only written at the end of a CADDs session. To synchronize this all relevant tables have a status flag, which allows data to be effectively rolled back.

CV_PROJECT_TBL TABLE

This table contains global project data. All parts must belong to a project. The data apply primarily to EDMControl.

NAME	TYPE	DESCRIPTION
PROJ_PROJID	NOT NULL CHAR(8)	Project name
PROJ_USERID	NOT NULL CHAR(12)	Project administrator
PROJ_UNITS	NOT NULL CHAR(2)	Project units - MM,M,CM,KM,IN,FT,MI
PROJ_CPLANE	NOT NULL CHAR(8)	Construction plane - Used for a global offset
PROJ_ZONEDIG	NOT NULL CHAR(1)	Zone definition flag - Allows/disallows interactive zone definition
PROJ_ZONENAME	NOT NULL CHAR(24)	Zone name
PROJ_STEM	CHAR(74)	Project directory- Base directory used to Put/Get snapshot parts
PROJ_PROJDESC	CHAR(50)	Project description
PROJ_EDMID	CHAR(8)	User name
PROJ_EDMPASSWD	CHAR(8)	User password

CV_PROPERTY_TBL TABLE

This table is loaded from the CADDs property table and should be updated each time the CADDs property table is modified. This is achieved through the administration installation functions.

It is used to determine whether an attribute name is a CADDs property, therefore it is important to keep it updated. Property types are: 0 Null, 1 Integer, 2 Real, 3 Text.

NAME	TYPE	DESCRIPTION
PROP_PROPNAME	NOT NULL CHAR(10)	Property name
PROP_HEXCODE	NOT NULL CHAR(4)	Property code (hex)
PROP_PROPNUM	NOT NULL NUMBER(5)	Property code (decimal)
PROP_PROPTYPE	NOT NULL NUMBER(5)	Property type
PROP_PROPDESC	CHAR(51)	Property description

CV_REFERENCE_TBL TABLE

The reference table is used to map Concurrent Assembly Mock-Up names against identities. When an entity is reported in the work table, each of the assembly ids can be looked up in this table, and the name reassembled.

Please note: If the assembly or component names are changed within the Concurrent Assembly Mock-Up database, this table is not modified.

If an external table is created to store assembly attribute data that references this table, then any change to the assembly or component table must be reflected in the external table.

NAME	TYPE	DESCRIPTION
CV_CVNAME	NOT NULL CHAR(74)	CV name
CV_CVID	NOT NULL NUMBER	CV identity

CV_SNAPSHOT_TBL TAB

The snapshot table is a generic CV table associated to the part table. Records are created when a part is newly linked, and updated each time a snapshot part is created by EDMControl.

NAME	TYPE	DESCRIPTION
SS_PARTID	NOT NULL NUMBER	Part identifier
SS_SNAPSHOT	NOT NULL NUMBER	Snapshot
SS_STATUS	NOT NULL NUMBER	Status
SS_MAXUID	NOT NULL NUMBER	Unique id (CADDs entity)
SS_MAXSEQUENO	NOT NULL NUMBER	Maximum sequence number
SS_ENTCOUNT	NOT NULL NUMBER	Entity count
SS_REVISIONCODE	CHAR(20)	Revision code
SS_STATUSCODE	NOT NULL CHAR(12)	Status code
SS_PARTITIONCODE	NOT NULL CHAR(12)	Partition code

Linking Data

There are two common mechanisms to tie in user data. Both rely on the Dictionary table.

Common Attribute Key

This mechanism has the advantage that all uid/partid maintenance is performed by the system. You can use the file and quit parameters to maintain the user object table.

For example, to link the following user table, USER_OBJ_TBL, to the attribute OBJID:

Table 2-1 User Table USER_OBJ_TBL

NAME	TYPE	DESCRIPTION
USER_OBJID	NOT NULL CHAR(8)	Object id
USER_OBJDATA	NOT NULL NUMBER(3)	Object data
USER_OBJID	NOT NULL NUMBER(3)	Other data

The Dictionary table entries would be:

Table 2-2 Dictionary Table Entries

TL_TABLENAME	TL_FIELDNAME	TL_CONNECTNAME	TL_CONDITION
USER_OBJ_TBL	USER_OBJID	OBJID.ATT_VALUE	
USER_OBJ_TBL	USER_OBJDATA		
USER_OBJ_TBL	USER_OTHERDATA		

UID/PARTID Key

User tables can also be tied directly to the entity, missing the attribute table:

For example, to link the following user table, USER1_OBJ_TBL, to UID and PARTUID,

Table 2-3 User Table USER1_OBJ_TBL

NAME	TYPE	DESCRIPTION
USER1_PARTID	NUMBER	Part identifier
USER1_CADDSUID	NUMBER	CADDS unique identifier
USER1_SNAPFROM	NUMBER	From snapshot
USER1_SNAPTO	NUMBER	To snapshot
USER1_OBJDATA	NOT NULL NUMBER(3)	Object data
USER1_OTHERDATA	NOT NULL NUMBER(3)	Other id

The Dictionary table entries would be:

Table 2-4 Dictionary Table Entries

TL_TABLENAME	TL_FIELDNAME	TL_CONNECTNAME	TL_CONDITION
USER1_OBJ_TBL	USER1_CADDSUID	APPL_CADDSUID	ATT_CADDSUID = :CADDSUID
USER1_OBJ_TBL	USER1_PARTID		ATT_PARTID =:PARTID
USER1_OBJ_TBL	USER1_SNAPTO		
USER1_OBJ_TBL	USER1_SNAPFROM		:SNAPSHOT between USR1_SNAPFROM and NVL(ATT_SNAPTO,65000)
USER1_OBJ_TBL	USER1_OBJDATA		
USER1_OBJ_TBL	USER1_OTHERDATA		

Hierarchical relationships can be built. To tie in a second user table USER2_OBJ_TBL with the common field OTHERDATA:

Table 2-5 User Table USER2_OBJ_TBL

NAME	TYPE	DESCRIPTION
USER2_OTHERDATA	NOT NULL NUMBER(3)	Other data
USER2_NEWDATA	CHAR(8)	Object data

The Dictionary table entries would be:

Table 2-6 Dictionary Table Entries

TL_TABLENAME	TL_FIELDNAME	TL_CONNECTNAME	TL_CONDITION
USER2_OBJ_TBL	USER2_OTHERDATA	USER1_OTHERDATA	
USER2_OBJ_TBL	USER2_NEWDATA		

Using Installation Scripts

This appendix provides information on using scripts located in the `/usr/apl/cadds/data/info/install` subdirectory for installing the EDMInformation associated database.

- Installing the EDMInformation Associated Database
- Installing DBMSNet
- Setting Up EDMInformation

Installing the EDMInformation Associated Database

In addition the graphic user interface, you can install the EDMInformation associated database using a bourne shell script, which is located in the EDMInformation support library.

Make sure that you have read the topic, “Preparing for EDMInformation Installation” on page 1-2 of this book before you proceed with your installation.

Getting Started

Change to the `/usr/apl/cadds/src/data/info/install` directory and run the script `install_ci_main.sh`, which gives the following menu:

```
EDMInformation
INSTALLATION MENU

1) Install EDMInformation Tables
2) Install EDMInformation Users
3) Install EDMInformation/EDM Views (Optional)
4) Install EDMInformation Demo (Optional)
5) Install EDM IQF/EDMInformation Views (Optional)
6) Install UNS/Oracle Views (Optional)
7) Load CADDs Property File (Optional)

8) EXIT
```

Enter selection:

Please note: Options 1 and 2 are mandatory.

Each option will create and run a temporary SQL command file which will install the appropriate ORACLE tables for use with EDMInformation. You will be prompted for the name of the SQL command file, a log file, and the required user id's and passwords.

Installing EDMInformation Tables (Mandatory)

Choose Option 1 to install the EDMInformation associated database tables. Prior to installing the tables, an ORACLE account must be created by the ORACLE system administrator. You will be prompted for the ORACLE user id and password for this account.

Installing EDMInformation Users (Mandatory)

Choose Option 2 to install the EDMInformation work table for each EDMInformation user who will be accessing the EDMInformation associated database. An ORACLE account must be created for each user prior to installing each user's work table.

You will be prompted for the name of a file containing the ORACLE user id and password for each user. Each user id and password must be delimited by a "/", one per line as follows:

```
user1/user1  
user2/user2  
user3/user3  
etc.
```

Installing EDMInformation/EDM Views

Choose Option 3 to create views so EDMInformation can access data stored in the EDMVault. You will be prompted for the ORACLE user id and password of the owner of the EDMVault tables.

Installing EDMInformation Demo

Choose Option 4 to install the EDMInformation demonstration database. You will be prompted for the ORACLE user id and password for the EDMInformation administrator.

Installing IQF/EDMInformation Views

Choose Option 5 to create views so the EDM Interactive query facility can access data stored in the EDMInformation associated database. You will be prompted for the ORACLE user id and password of the EDM IQF account.

Installing UNS/ORACLE Views

The UNS/ORACLE View option is not operational on this version of EDMInformation. The installation menu option will not produce results.

Load CADD5 Property File

Choose Option 7 to load the CADD5 non-graphic property file into the associated database. This option will load the property names and descriptions from the CADD5 data file:

```
/usr/ap1/cadds/data/BCD/prop
```

Each time this option is run, all data is deleted from the `cv_property_tbl` and replaced with the contents of the CADD5 property file.

Installing DBMSNet

Updating the RPC (Remote Procedure Calls) System File

Add the DBMS network daemon to `/etc/rpc`

```
dbmsnetd          300007          DBMS network daemon
```

Please note: This must be added to the master copy if running under NIS.

Starting the DBMS Process Daemon

To access the DBMS process, modify the `/etc/rc.local` file on all systems that use the process to start the DBMS daemon when the systems are rebooted.

```
DBMS daemon startup
if [ -f /usr/apl/cadds/bin/DBMS ]; then
    (/usr/apl/cadds/bin/DBMS&) ; \
    (echo 'DBMS')                >/dev/console
fi
```

Please note: If `sqlnet` is not used, start the process on the database server only.

Setting Up EDMInformation

Setting Up the .login File for EDMInformation

To use EDMInformation, include the following environmental variables in the .login file of each user.

```
setenv NLSPATH usr/apl/cadds/data/reposit/C/%N.cat
```

Setting Up the .caddsrc File for EDMInformation

To use EDMInformation commands, be sure the following variables are included in each user's .caddsrc file. The template for the .caddsrc file is in the directory /usr/apl/cadds/data/scripts/templates/.caddsrc. A duplicate of that file is presented here for your reference.

EDMInformation - Attribute Management

DBMS_HOST specifies the name of the system on which the DBMS process is running. The DBMS process is required to use EDMInformation.

Setting the DBMS_HOST environment variable also specifies that the DBMS process will be used to communicate from EDMInformation to the RDBMS.

It is not required that the DBMS process be running on the RDBMS server. However, if it is not, the networking software provided with the RDBMS must be installed and running.

```
setenv DBMS_HOST `hostname`
```

The DBMS_TASK environment variable sets the cadds task for the DBMS process. The default is 0.

For "standalone" configurations where the RDBMS is installed locally, this variable does not need to be set.

For "multi-user" configurations that share the same DBMS process, the value must be unique for each system. Otherwise the caddstask or \$CADDUSER value is sufficient.

```
setenv DBMS_TASK `caddstask`  
setenv DBMS_TASK $CADDUSER
```

The `DBMS_ARRAY_SIZE` environment variable specifies the number of records retrieved at a time from the RDBMS for large queries. This can be used to tune the performance based on the database size.

A large number increases the performance of queries that retrieve many records, but decreases the performance for queries that retrieve few records.

```
setenv DBMS_ARRAY_SIZE    '100'
```

The `INFO_PASSWD` environment variable specifies the userid and password of the RDBMS account who owns the associated database tables.

```
setenv DBMS_PASSWD 'demo_cadds/demo_cadds'
```

The `SCRIPTS_PROCESS` environment variable specifies whether or not to start the `CADDSCRIPT` process which allows EDMInformation to communicate to the DBMS process which in turn communicates to the RDBMS. This is required in order to use EDMInformation commands.

```
setenv SCRIPTS_PROCESS    'yes'
```

The `SCRIPTS_TOOL` environment variable specifies the toolname, e.g. `shelltool`, `cmdtool`, `xterm`, etc., to be used to interact with the `CADDSCRIPT` process from the `CADD` work session. The default is to run the process in background. Interactive processing is only available if the script is run within a tool. The tool specified actually starts the `CADDSCRIPT` process. "`CADDSCRIPTS`" plus the process id (pid) are programmatically added to the `SCRIPTS_TOOL` argument. Therefore it is mandatory to include the appropriate entry to the end of the tool argument to execute the command. For example, the `xterm` argument is `"-e"` and must be the last argument in the command line.

```
setenv SCRIPTS_TOOL    'shelltool -wi'  
setenv SCRIPTS_TOOL    'xterm -fn "fixed" -bg "4A3D8A3D91EB" -fg  
"FFFFFFFFFFFFFF"  
-n "C5 IPC" -T "CADD5 IPC Window" -iconic -sb -e'
```

The `SCRIPTS_RPC` environment variable specifies the RPC program number used to communicate with the `CADDSCRIPTS` process. It consists of a fixed number plus a unique two digit value provided by the `caddstask` command.

```
setenv SCRIPTS_RPC    200050`caddstask`
```

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