

Dental Record Manager Plus (DRM Plus) Application

TECHNICAL MANUAL AND PACKAGE SECURITY GUIDE



Version 1.2

**April 1989 (VA Release)
(Revised June 2020)**

Revision History

| Date | Revision | Description | Author |
|---------------------------------|----------|--|---------------------------|
| June 5 th , 2020 | 1.96 | Updated Month to current Month | Kipp Clemmons |
| March 4 th , 2020 | 1.95 | DENT*1.2*77 updates for Release: <ul style="list-style-type: none"> • Changed Month from February to March on Cover Page. • Corrected alpha numeric page numbering in Footer. • Changed *75 to *77 in previous Revision History entry. • Corrected spacing in paragraph for DENTV INACTIVE PATIENTS. | Vicky Byers/Kipp Clemmons |
| January 29 th , 2020 | 1.94 | DENT*1.2* 77 updates for Release: <ul style="list-style-type: none"> • Added DENTV PATIENT FLAGS to the list of parameters. • Updated DENTV INACTIVE PATIENT to reflect new default timeframe. | Kipp Clemmons |
| January 8 th , 2020 | 1.93 | DENT*1.2*75 updates for Release: <ul style="list-style-type: none"> • Updated image on cover page. • Corrected version number on cover page. • Corrected revision date on cover page. • Changed revision table to sort by reverse chronological date order. • Added links to pertinent locations for changes within the document. • Corrected version number on Table of Contents. • Changed verbiage for DRM to Dental Record Manager Plus in footer. • Updated page numbers in footer. • Added verbiage for new option, DENTV CPT CODE MAPPING INQUIRY. | Kipp Clemmons |
| November 5 th , 2019 | 1.92 | DENT*1.2*75 Date changes for | Vicky Byers |

| | | | |
|--------------------|------|--------------------------------------|-------------------|
| | | Release | |
| October 9, 2019 | 1.91 | DENT*1.2*75 changes | Anthony Johns |
| March 4, 2019 | 1.9 | DENT*1.2*73 final | Vicky Byers |
| December 4, 2018 | 1.8 | DENT*1.2*73 changes | Vicky Byers |
| May 18, 2018 | 1.7 | DENT*1.2*72 changes | Vicky Byers |
| May 3, 2018 | 1.6 | DENT*1.2*69 date changes for release | Vicky Byers |
| September 12, 2017 | 1.6 | DENT*1.2*69 date changes for release | Vicky Byers |
| July 14, 2017 | 1.6 | DSS Legal | Vicky Byers |
| May 25, 2017 | 1.5 | DENT*1.2*69 changes | Vicky Byers |
| October 15, 2014 | 1.4 | Document Edits | Vicky Byers |
| October 14, 2014 | 1.3 | Document Edits | Michael Honeycutt |
| October 14, 2014 | 1.2 | DENT*1.2*66 changes | Anthony Johns |
| March 14, 2012 | 1.1 | DENT*1.2*59 changes | Brandon DeWayne |
| June 3, 2011 | 1.0 | Initial Document | Karen Clark |

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1. Introduction

Dental Record Manager Plus (DRM Plus) is a Graphical User Interface (GUI) front end for data input into the VistA Dental files as well as Patient Care Encounter (PCE), Text Integration Utility (TIU), CPRS Problem List, and Vitals packages.

The principle objective of DRM Plus provides the dental staff the ability to electronically capture meaningful data for patient encounters. CPRS functions are exposed within the DRM Plus application. This “single-entry” process simultaneously records dental diagnostic data, dental treatment planning data and feeds both PCE and the local Dental Encounter System (DES) databases thereby eliminating the entries into multiple system. This creates a more accurate, inclusive, efficient and less costly data storage process.

There are three components to the DRM Plus application

1. **DENTV KIDS:** M application that resides within VistA to read and write data to/from the DRM Plus GUI. The KIDS build contains HL7 components that in the past communicated to Austin through the VistA Interface Engine (VIE).
2. **DRM Plus GUI:** A Delphi written client application that provides a front end for dental users electronically to enter/review/report dental encounter data.
3. **Graphical Client Components:** C++ written client components used by the DRM Plus GUI to display charting graphics. These components are installed on the user’s workstations or Citrix thin client servers.
4. **Extract executable:** A Delphi written client application that provides TCP/IP access from the dental application exe for extracting dental transactions too large to be processed from the broker.

Product Table View

| Module Name | Programmed In | Primary Db | Secondary Db | Client/Server Based |
|--------------------|---------------|------------|--------------|---------------------|
| DENTV KIDS | M | VistA | n/a | Server |
| DRM Plus GUI | Delphi | VistA | n/a | Client |
| GUI Components | C++ | n/a | n/a | Client |
| Extract executable | Delphi | n/a | n/a | Client |

Table 1: Product Table View

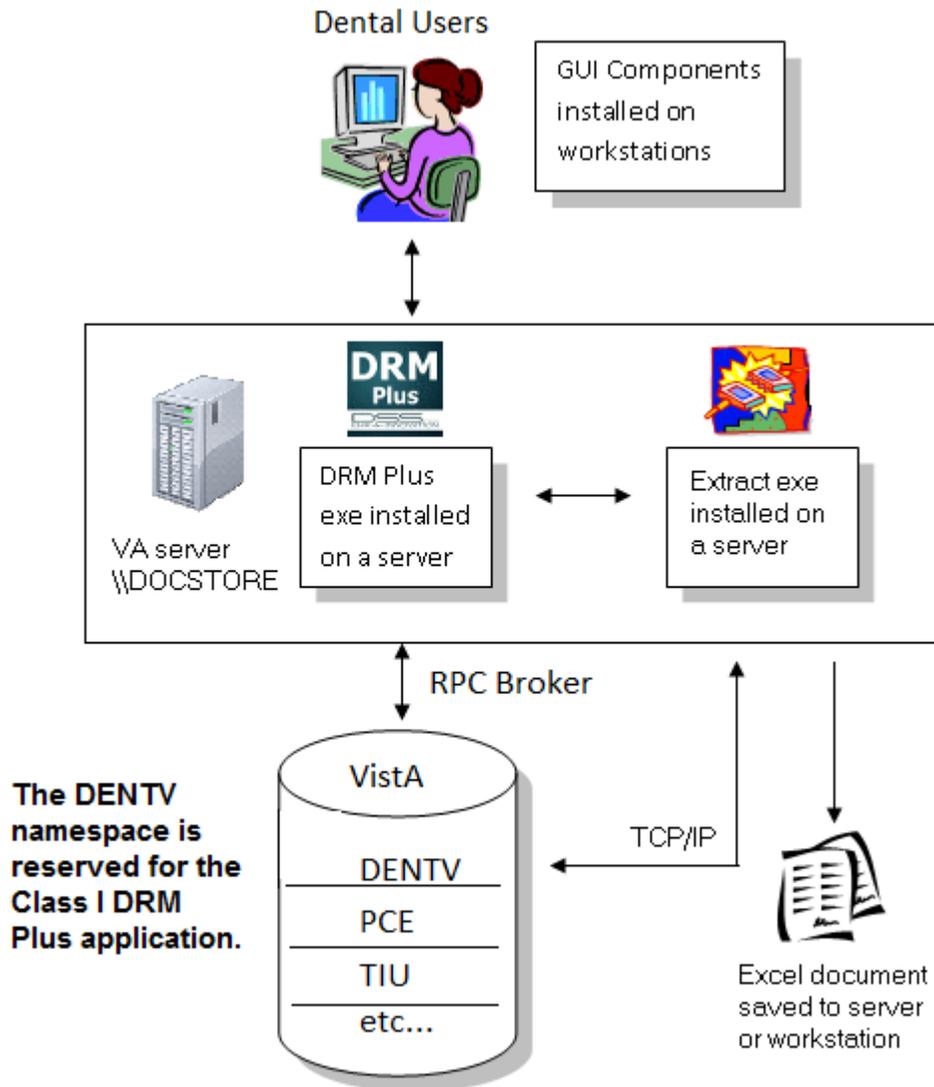


Figure 1 – Dental Data Flow Diagram and components

Functionality

DRM Plus allows dental users to view/edit dental encounter data and interfaces with CPRS, TIU, PCE, and many other VistA applications for a comprehensive patient health record view. The application uses underlying M code within the DENTV namespace to process data via VA PIV RPC Broker call technology.

Information on GUI software

Internet/Intranet Documentation

Documentation for this product (including user manual, technical manual and package security guide, release notes, and installation guide) are available on the VA Documentation Library (VDL): <http://www.va.gov/vdl/> and the VA Dental intranet site: <http://vaww.va.gov/dental/>

GUI and Windows

GUI stands for Graphical User Interface, most frequently seen as the Windows screen. If you have already used programs with these screens, then the Dental Record Manager Plus GUI screen will seem familiar to you. The Dental Record Manager Plus GUI is only implemented on the Microsoft Windows platform at this time.

If you have little or no familiarity with Windows, you can browse through the Windows help file for information about the basics of using Windows. Also, see the next few paragraphs for brief descriptions of some GUI features.

To access the Windows Help File, click the Start button in the taskbar and click Help. Use this help file as a reference whenever you have general questions about Windows.

The following is an example of what a GUI screen looks like (Fig. 1-1):

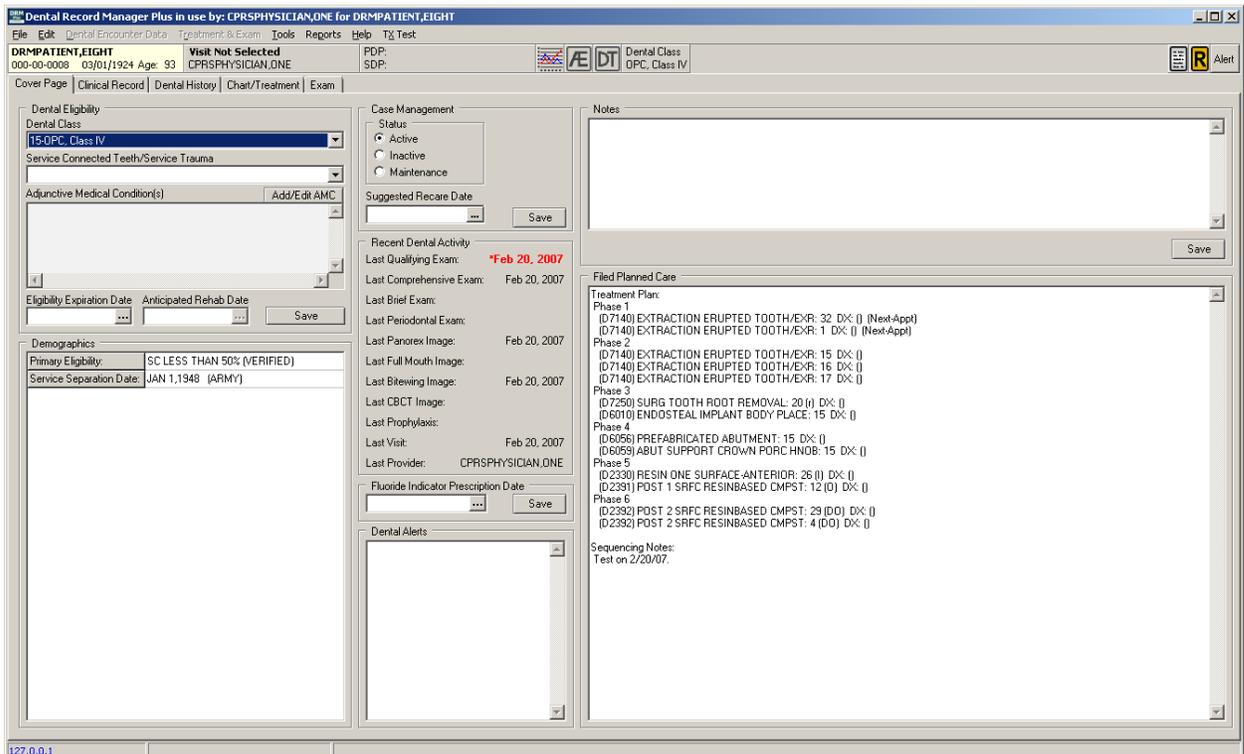


Fig. 1-1

Windows

An “application window” is the area on your computer screen used by a program. If you have more than one program running at the same time, you can go from one program to another by

clicking in each application window. The currently active window contains a colored bar (usually blue) at the top of the window. An inactive window contains a gray bar at the top of the window. You can also move, close, or minimize the application window to make room for another window. (See Help in Windows for further instructions on these functions.)

Inactive window

Active window

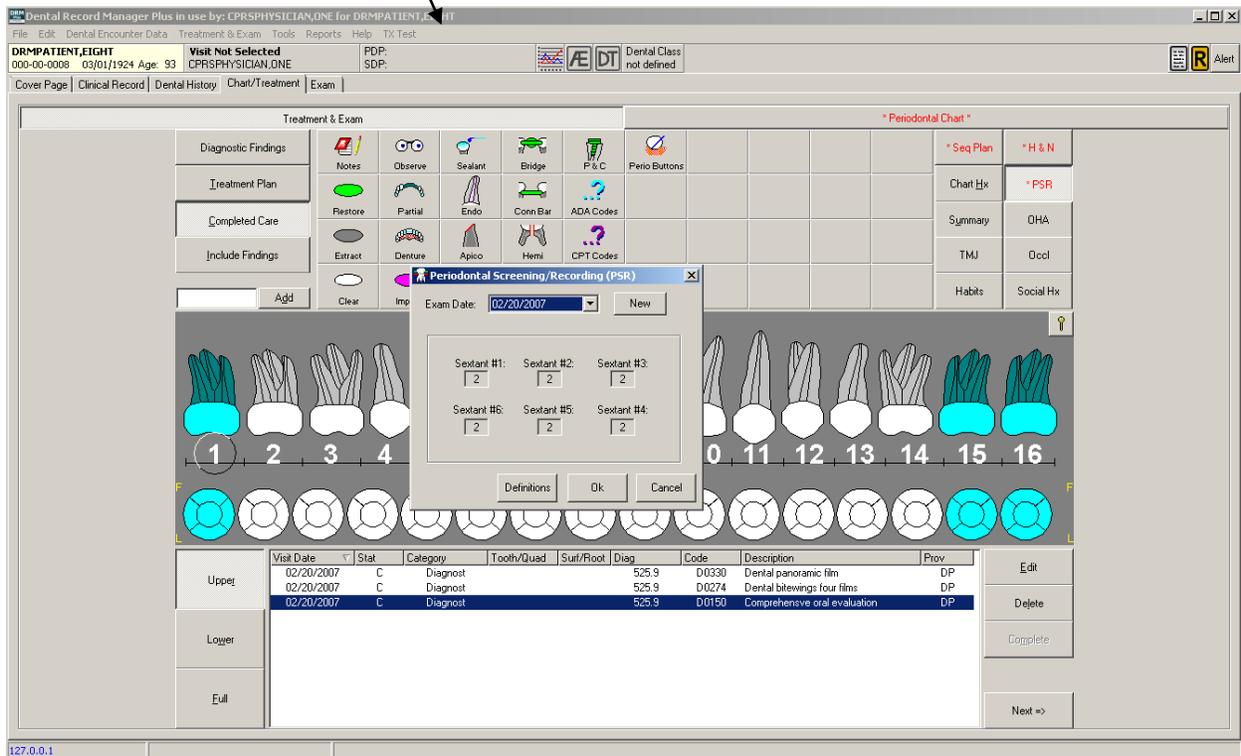


Fig. 1-2

Pop-up Windows

These are “mini” windows that pop up within a window to provide or request information. Usually they require some action before they will go away. Clicking on buttons with the words <Cancel>, <Exit>, or something similar closes these windows.

Menus

Menus are shown in the gray bar near the top of the window. Some examples of menus are: File, Edit, Reports, and Help — typical menus for most Windows applications. When you click on one of these, a list of options is displayed.

Help

Online help and documentation are available in several formats: hints, context-sensitive help, menu help via the GUI, Intranet and Internet Web documentation on the VistA Documentation Library (VDL).

Hints

Place the cursor over a specific button, and a pop-up box will appear containing a short description of that button.

Menu Help

Select the Help Menu at the top of the screen. A Table of Contents opens. Choose one of the contents, or type in a topic you want help on. A screen appears containing help about that subject.

Access Keys

Use access keys to quickly get to an option through the pull-down menus by holding down the Alt key and pressing the underlined letter of the desired pull-down menu, then (still holding down the Alt key) press the underlined letter of the desired option.

Delphi and Visual Basic Toolkits

Specific Dental Record Manager Plus modules use PIV RPC Broker (see above product table) and various Delphi Components in the display and navigation of screens. Dental Record Manager Plus utilizes standard, ADO and third-party VCLs as part of Delphi. Below is a sample list of the Delphi components (VCL) the application currently uses along with a short description.

Delphi

| | |
|----------------|--|
| JEDI | Open-source components written for Delphi that allow the developer to use visual controls that create a Windows “look and feel”. |
| DevExpress | A third-party suite of components that provide grids for visual display of database records. |
| PIV RPC Broker | Used for all non-FTP communication with the server. |
| DateTime | Allows the user to visually select a date and time. It is provided as an option on all date/time fields. |

2. Implementation and Maintenance

Description

This chapter provides guidelines for implementing the DRM Plus application. It is important to review all information within this chapter before assigning menu options to staff members.

After the KIDS install has completed, the installer needs to place the DRM Plus executable (dentalrmtx.exe) in the appropriate directory. The installer must also complete some additional client setup on client workstations or thin client/Citrix servers. Users will require the DENTV DSS DRM GUI secondary menu option and the DRM Plus exe must be available from the CPRS Tools menu. Dental users also require an active Person Class and an entry in the Dental Provider file for filing data. If this is a first time installation, then a default dental site must be added to file 225. Any users needing dental administrator privileges will need to have the DENTV DRM ADMINISTRATOR parameter set to Yes. Note: dental administrators can add providers to the Dental Provider table within DRM Plus. Details of these steps are listed below.

Not all DRM Plus patches require a client install on workstations/thin client/Citrix servers but any new workstations must have this step performed using the most recent client setup files. Client setup requires the installer to have administrator privileges on the workstation.

Virgin Installation of Software

The following steps should be followed when the DRM Plus software is installed in an environment where no previous installation of the application has taken place.

1. Setting up the software environment.

Information Resource Management Services (IRMS) staff should install the VistA software using the Installation Guide in a test environment prior to installing the software in the production (VAH) account. The following VistA packages should reside in the environment where the DRM Plus application is to be installed:

- a. VA FileMan V. 22 or greater,
- b. Kernel V. 8.0 or greater,
- c. Kernel Toolkit V. 7.3 or greater,
- d. Kernel PIV RPC Broker V. 1.1 or greater,
- e. Registration (DG) 5.3 or greater,
- f. Order Entry (OR) 3.0 or greater,
- g. Patient Care Encounter (PX) 1.0 or greater,
- h. Clinical Reminders (PXR) 2.0 or greater,
- i. Text Integration Utilities (TIU) 1.0 or greater,
 - TIU*1.0*252 is required for DENT*1.2*59
- j. Consult/Request Tracking (GMRC) 3.0 or greater,
- k. Gen. Med. Rec. - Vitals (GMRV) 5.0 or greater,
 - GMRV*5.0*23 is required for DENT*1.2*59
- l. DSIC V. 1.5 or greater

Data entered into the test environment CANNOT be transferred into the production environment. It is recommended that a limited amount of data be entered into the test

directory in order for the user to become familiar with the application and to establish an acceptable training database.

After installing the final DENTV KIDS build, move the dentalmrmrx.exe and DRMEXTSRV.exe files to the appropriate system folder – usually [\\servername\Docstore\](#).

2. Name spacing and file listing.

DRM Plus uses the DENTV namespace. All routines, remote procedures, and options begin with DENTV. Vista file numbers are in the range of 220-229. Files are stored in the ^DENT namespace and ^DENT global, although some historical files (used or unused) are in the ^DIC(nnn.n global. There are two dental fields in file #2 (PATIENT) Dental has the ICR necessary to enter/edit these fields. They are:

| | |
|---------------------|-------------------------------|
| File 2, Field 220 | DENTAL CLASSIFICATION |
| File 2, Field 220.1 | DENTAL ELIGIBILITY EXPIRATION |

3. Site Parameters.

The DRM Plus GUI uses many site parameters for storing site-specific and user-specific information used by the application. Items in blue are not edited via the DRM Plus GUI, but are system parameters to be set only by IRM under direction of a dental administrator. The DENTV DRM ADMINISTRATOR parameter requires IRM to set one user as an administrator (see Step 6) and then that user has the ability to set admin access through the GUI for others.

| | |
|-----------------------------|---|
| DENTV ADMINISTRATOR | Historical/no longer used |
| DENTV ALLERGY DATE LIMIT | Historical/no longer used |
| DENTV ANCILLARY MULTI WP | Multi-instance Word Processing parameter to define ancillary products which can be launched from within DRM Plus. |
| DENTV CHUNK SIZE | The number of records to be returned with each call to the chunked data reports |
| DENTV CODING STANDARDS | Contain a URL which points to an online copy of the Dental Coding Standards. |
| DENTV CONSULTA DATE LIMIT | Historical/no longer used |
| DENTV COVER PAGE ONLY | This parameter determines whether or not the user only has access to the DRM Plus Cover Page. |
| DENTV CPT QUICK LIST | Contains a quick list of cpt codes for an user. |
| DENTV CS* | GUI Component parameters |
| DENTV CVISION | GUI Component parameter |
| DENTV D/C SUM DATE LIMIT | Historical/no longer used |
| DENTV DATAWAREHOUSE TIMEOUT | Contains the length of time which the GUI will wait for a connection to the online Datawarehouse. |
| DENTV DATAWAREHOUSE XML1 | Contains a URL for the online Datawarehouse XML. |
| DENTV DATAWAREHOUSE XML2 | Contains a secondary URL for the online Datawarehouse XML. |
| DENTV DATE RANGE | Contains the values for the various date range settings |

| | |
|--------------------------------|---|
| DENTV DEFAULT STARTUP TAB | (days back/# of records to retrieve) |
| DENTV DEFAULT TEMPL FOLDER | Historical/no longer used |
| DENTV DOCUMENT LIBRARY | Historical/no longer used |
| DENTV DRM ADMINISTRATOR | Contains a URL for the online document library. Allows access to admin options in DRM Plus |
| DENTV DRM ANCILLARY | Historical/no longer used |
| DENTV DRM BOILERPLATE PROMPT | Controls the display of the boilerplate prompt |
| DENTV DRM CLEAN SLATE | Permits an administrator to give a non-administrator user the ability to use clean slate functionality. |
| DENTV DRM DAS TURNOFF | Set to 10/31/2004 to turn off filing to DAS (file 221). Should never be edited! |
| DENTV DRM DEF ENC TAB | Historical/no longer used |
| DENTV DRM DEF STARTUP TAB | Controls the first tab (screen) the user sees when launching DRM Plus |
| DENTV DRM DEF TEMP FOLDER | The DRM GUI application has need to occasionally create temporary files. The default location is c:\temp\. |
| DENTV DRM DEF TX TAB | Controls the startup tab within the Treatment tab (findings/planned/completed care) |
| DENTV DRM DUPCHECK OFF | Controls whether the users see the Potential Duplicates screen. Should not be turned off! |
| DENTV DRM ELIGIBILITY | Controls access to edit eligibility data on the Cover Page |
| DENTV DRM EXCEL EXTRACT | Controls access to the extract options within DRM Plus |
| DENTV DRM EXTRACT FOLDER | Default folder for saving dental extract (Excel format) |
| DENTV DRM EXTRACT IP | The IP address where the DRM listener is running to receive the Excel extract. |
| DENTV DRM EXTRACT PORT | The port number that the DRM 'TCP/IP' listener is listening on for the Excel extract. |
| DENTV DRM MONITORED DATA | Changes the background color on the cover page for the Monitored Exam field. |
| DENTV DRM NO PCE DELETE | Controls whether or not PCE will be auto-updated when the user deletes transactions in DRM Plus. Should not be turned off! |
| DENTV DRM NO VISIT CREATE | Controls whether users may add PCE visits 'on the fly' |
| DENTV DRM NOTE WIDTH | Contains the word wrap width for note windows in DRM Plus. The default is 74 |
| DENTV DRM PLUS POSITION | Contains the saved window position for a user |
| DENTV DRM PRIMARY PROVIDER | Controls access to edit the patient's Primary and Secondary Providers |
| DENTV DRM USER CHAR ACCESS | Controls access for the user to lookup/edit NEW PERSON information |
| DENTV DRM USER LOCATION | Contains the default location (clinic) for the user |
| DENTV DRM VERSION | Contains the last DRM Plus version run by the user |
| DENTV ENCOUNTER CATEGORY TAB | Historical/no longer used |
| DENTV EXAM BACK REQUIRED | Controls how a provider wants the exam screen to function |
| DENTV EXAM NEXT REQUIRED | Controls how a provider wants the exam screen to Function |
| DENTV EXAM RADIOGRAPHS REQ | Controls if radiographs are required. |
| DENTV EXAM REQUIREMENT DISPLAY | Controls display of required elements on the exam screen. |

| | |
|------------------------------|---|
| DENTV EXCEL EXTRACT | Historical/no longer used |
| DENTV GET VISITS DATE LIMIT | Historical/no longer used |
| DENTV GUDID LOOKUP | Stores the URL to be used for GUDID lookup |
| DENTV GUDID TIMEOUT | How long the GUI will wait for a response when performing a GUDID search |
| DENTV HANG TIME | Controls how long chunked reports will hang every 50,000 records read |
| DENTV HL7 BATCH LIMIT | Maximum number of messages to be sent in an HL7 batch. |
| DENTV HLTH SUM DATE LIMIT | Historical/no longer used |
| DENTV ICD9 QUICK LIST | Contains user's quick list of most commonly used diagnosis codes. |
| DENTV IMMUN DATE LIMIT | Historical/no longer used |
| DENTV LAB RESULTS DATE LIMIT | Historical/no longer used |
| DENTV LOCATION | Historical/no longer used |
| DENTV MED DATE LIMIT | Historical/no longer used |
| DENTV NOTES DATE LIMIT | Historical/no longer used |
| DENTV NOTES MAX | Historical/no longer used |
| DENTV PAGE SETUP | Contains printer page setup values (margins, etc) |
| DENTV PATIENT FLAGS | Stores settings regarding patient notification flags |
| DENTV PROB DATE LIMIT | Historical/no longer used |
| DENTV RADIOLOGY DATE LIMIT | Historical/no longer used |
| DENTV TP CODE BOILERPLATE | Contains word processing templates that are stuffed into the progress note for an associated ADA codes |
| DENTV TP DX PROMPT | Controls users preference for adding Dx codes to Planned Treatment items |
| DENTV TP NOTE OBJECTS | Configures the DRM Plus progress note automatic addition of items |
| DENTV TP NOTE SEQUENCE | Configures the DRM Plus progress note order of items |
| DENTV TP PROMPT CODEBP | Controls whether the user will be prompted to reimport the Code Boilerplate when going back to the note |
| DENTV TP TREEVIEW DEFAULT | Controls the display of DRM Plus note objects |
| DENTV TX ALERTPRESETS | Preset dental alert data values |
| DENTV TX CODELINKS | Contains user defined ADA/CPT linked codes |
| DENTV TX HNPRESSETS | Preset Head and Neck data values |
| DENTV TX SPEEDCODES | Contains user defined ADA/CPT codes that can be entered as a set (quickly) |
| DENTV USER CHAR ACCESS | Controls whether the site or user can display/edit their user characteristics |

4. Accessing modules.

A dental site must be added to the DENTAL SITE PARAMETERS file (#225) using FileMan:

```
Select OPTION: 1 ENTER OR EDIT FILE ENTRIES
INPUT TO WHAT FILE: DENTAL SITE PARAMETERS// 225  DENTAL SITE PARAMETERS
EDIT WHICH FIELD: ALL//
THEN EDIT FIELD:
```

```

Select DENTAL SITE PARAMETERS STATION.DIVISION: 999 [site# here]
Are you adding '999' as a new DENTAL SITE PARAMETERS (the 1st)? No// Y
(Yes)
INACTIVE:
CARD READER DEVICE: ^ [Exit here, no other data required]
Select DENTAL SITE PARAMETERS STATION.DIVISION:

```

The DRM Plus application is accessed through the Tools option in CPRS. IRM must edit the CPRS GUI Tools menu item from the CPRS Configuration (Clin Coord) Option, GUI Parameters, GUI Tool Menu Items. DRM Plus should be configured under the System setting.

```

Select CPRS Configuration (Clin Coord) Option: GP GUI Parameters
Select GUI Parameters Option: TM GUI Tool Menu Items

```

CPRS GUI Tools Menu may be set for the following:

| | | | |
|-----|----------|-----|---------------------------------|
| 1 | User | USR | [choose from NEW PERSON] |
| 2 | Location | LOC | [choose from HOSPITAL LOCATION] |
| 2.5 | Service | SRV | [choose from SERVICE/SECTION] |
| 3 | Division | DIV | [choose from INSTITUTION] |
| 4 | System | SYS | [SMA.FO-ALBANY.MED.VA.GOV] |
| 9 | Package | PKG | [ORDER ENTRY/RESULTS REPORTING] |

```

Enter selection: 4 System SMA.FO-ALBANY.MED.VA.GOV

```

```

---- Setting CPRS GUI Tools Menu for System: SMA.FO-ALBANY.MED.VA.GOV ---

```

```

Select Sequence: ?

```

```

Sequence Value
-----
1 MedFlow EMR=C:\MEDFLOW\APP\VA_EyeCare.exe S=%SRV P=%PORT D=%DFN M=EMR
2 MedFlow Optical=C:\MEDFLOW\APP\VA_EyeCare.exe S=%SRV P=%PORT D=%DFN M

```

Add a sequence and enter the desired Tools Menu option title (text in front of the '=') and server location of the dentalmrmmtx.exe application. Following the exe are the parameters that must be defined to pass the server/port/patient reference from CPRS to DRM Plus.

```

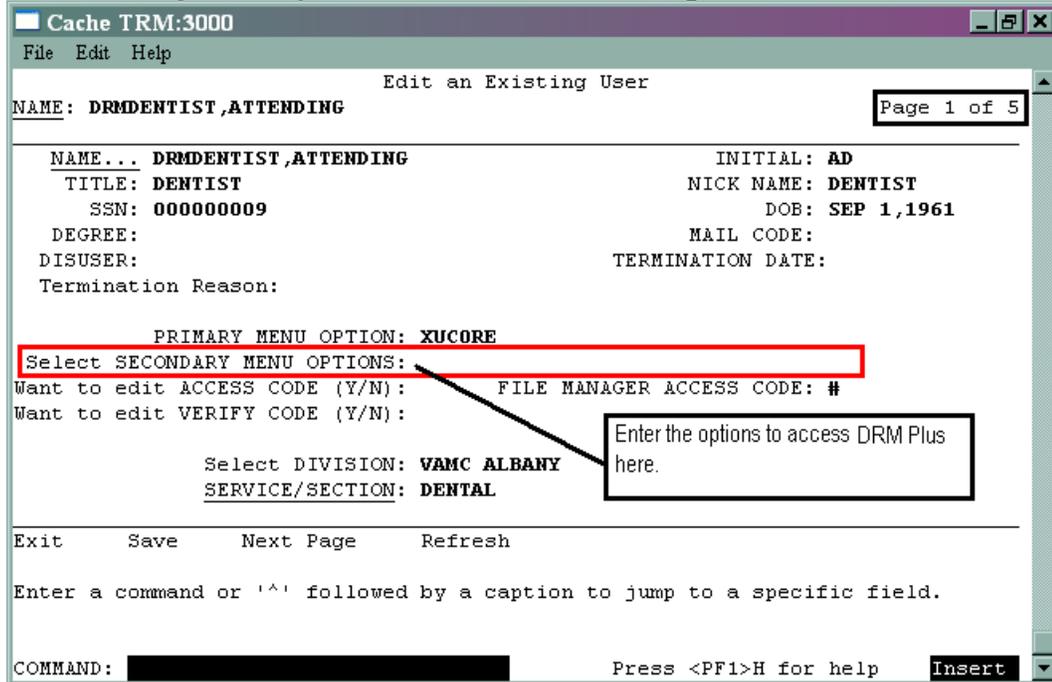
Select Sequence: 3
Are you adding 3 as a new Sequence? Yes// YES

Sequence: 3// 3
Name=Command: DRM Plus=\\serverhostname\Docstore\dentalmrmmtx.exe S=%SRV
P=%PORT D=%DFN TX=1

```

5. Assigning modules.

- The menu option DENTV DSS DRM GUI is sent with this build. This menu contains the RPC calls necessary for all DRM Plus functionality. The menu needs to be assigned as a secondary menu option to users that will be using DRM Plus.



- One Dental Administrative user will need the DENTV DRM ADMINISTRATOR parameter set to Yes to allow access to administrative options.

```

VAH>D ^XPAREEDIT
                                     --- Edit Parameter Values ---

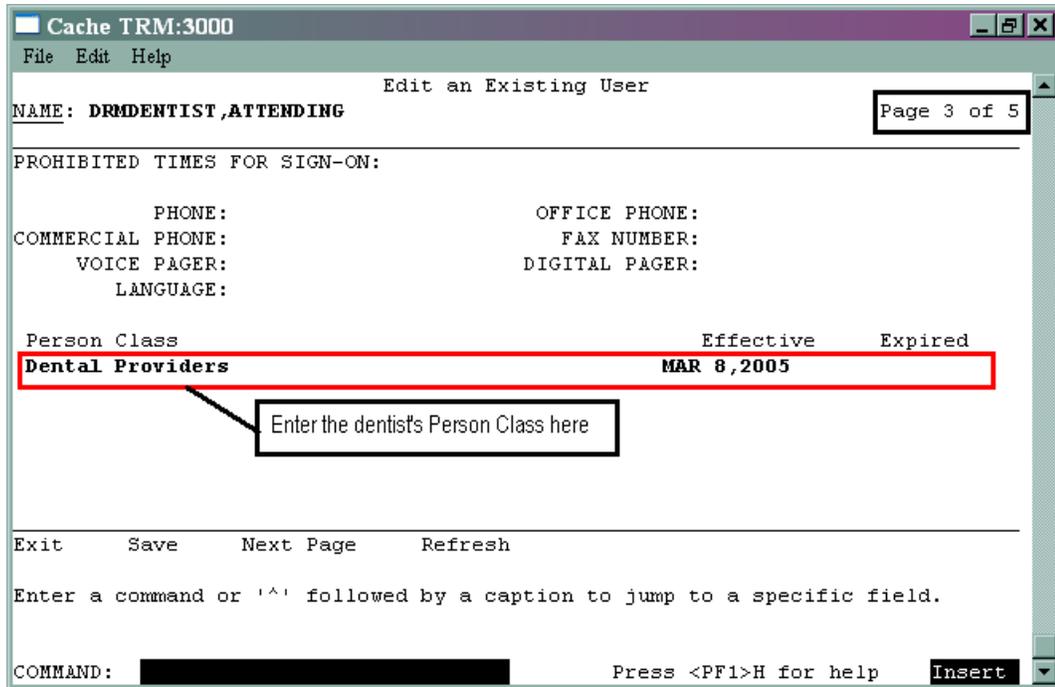
Select PARAMETER DEFINITION NAME: DENTV DRM ADMINISTRATOR
Select NEW PERSON NAME: DRM
  1  DRMPROVIDER, ADMINIDENTIST          ADP
  2  DRMPROVIDER, ASSISTANT              ADP
  3  DRMPROVIDER, DENTIST                DDP
  4  DRMPROVIDER, ONE                    DO      DOC
  5  DRMPROVIDER, RESIDENT              RDP
CHOOSE 1-5: 1  DRMPROVIDER, ADMINIDENTIST          ADP

---- Setting DENTV DRM ADMINISTRATOR for User:
DRMPROVIDER, ADMINIDENTIST ----
Value: YES
Select NEW PERSON NAME:

```

Once a single administrator has admin privileges, they can assign additional personnel this access using the DRM Plus Tools, Administrative Toolbox option.

- Dental users filing encounter data require a Person Class defined under the Kernel User Management/Edit an Existing User option.



For Dental Residents, the assigned Person Class should have one of the following VA Code values for DRM Plus distributed workload (Distributed Provider required if no co-signer is entered):

- V030300
- V115500
- V115600

- Dental users filing encounter data require an entry in the Dental Provider (#220.5) file with an 8 character provider Id. Dental administrators can add dental providers and assign the appropriate information using the DRM Plus Tools menu, Provider Add/Edit option.

6. Security keys.

There are no active security keys in this package. DENTV EDIT FILE is an obsolete/historical key that is no longer used by DRM Plus.

7. Printer issues.

Users may print reports on either Client (Windows) printers or Vista (device file) printers.

8. On-line Help.

Throughout the application, on-line help is available when questions arise. The user can click on the Help button or menu at the top of the screen to see a table of contents and index containing help on how to enter data, print reports, etc..

The application help file is called drm-plus.chm and is placed in the \\...\Docstore\Help directory.

9. Client/Workstation Setup (or Thin Client/Citrix Servers).

DRM Plus requires workstation files (.ocx and .dll) in order to work properly. These files are bundled into a setup.exe program that must be run on the workstations by a user with administrative privileges.

Run setup.exe on all Windows Workstations, Thin Client Servers, Windows Terminal Services Servers and Citrix Servers that need to launch the dentalmrmmtx.exe you moved to \DOCSTORE. These files are NOT run on the machine that hosts the \DOCSTORE folder!

Note: On some Windows Server machines the setup.exe file will not update the CVision.ocx file in ...SYSTEM32. If the CVision version isn't correct (check the properties value for the most recent version given to you by DSS Technical Support) then Microsoft's Data Execution Prevention (DEP) may be the issue. Turn DEP off (call DSS tech support if you need help with this), reboot the machine and install the client side files by running setup.exe again. Additional information on DEP can be found at:

<http://support.microsoft.com/kb/875352>

Please be careful to coordinate the server/client updates with each other so that the dental application works properly. You will know if the server/client files are *NOT* compatible because launching DRM Plus will cause approximately 30 client errors! This also means that you must carefully coordinate testing the new application in the TEST account since you must run setup.exe on a rarely used machine for the dental staff to test against, as they will not be able to run the production side application after updating the client.

Non-Virgin Installation of Software

1. Install the DENTV KIDS build. See #1 above.
2. Install the dentalmrmmtx.exe application on the [\\servername\Docstore](#) folder. See #1 above.
3. Install any workstation (thin client/Citrix server) updates. See #10 above.
4. Set up any new dental uses. See #6 above.

Implementation Considerations

Where necessary, the person who is performing the installation on the server or local workstations must have the necessary Windows administrative privileges.

Resource Requirements

The minimal hardware requirements for the software are two data input devices (usually PC workstations running Windows XP or NT (Ver. 4 or later)) and one printer per location. 12 megabytes of available memory is needed to run the program. The following statistics regarding the disk storage requirements of the software were compiled by an average test site.

Most dental files are contained in the ^DENT global. Some older files from the original VistaA Dental product may be in ^DIC(nnn.n but most of those files are no longer used. They remain for historical pointers for reporting purposes.

| <u>Global</u> | <u>File Name</u> | <u>Size</u> |
|---------------|---------------------------------|---------------------------------------|
| ^DENT(220, | DENTAL PATIENT | 3800 records ~ 1.3 MB dynamic |
| ^DIC(220.2, | DENTAL CLASSIFICATION | 22 records = 3 KB static |
| ^DENT(220.5 | DENTAL PROVIDER | 130 records ~16 KB dynamic |
| ^DENT(220.51 | DENTAL PROVIDER TYPE | 16 records = 2KB static |
| ^DENT(220.52, | DENTAL PROVIDER SPECIALTY | 11 records = 2KB static |
| ^DENT(225, | DENTAL SITE PARAMETERS | 3 records = 1KB usually static* |
| ^DENT(226, | DENTAL NON CLINICAL TIME | 16 records ~ 5KB dynamic |
| ^DENT(227, | DENTAL CANNED COMMENTS | 15 records = 4KB dynamic |
| ^DENT(228, | DENTAL CPT CODE MAPPING | 1069 records = 784 KB usually static* |
| ^DENT(228.1, | DENTAL HISTORY | 13,000 records ~ 5 MB dynamic |
| ^DENT(228.2, | TREATMENT PLAN TRANSACTION/EXAM | 20,000 records ~ 6 MB dynamic |
| ^DENT(228.25, | DES/HL7 TRANSMISSION | 50 records ~ 11 KB dynamic/purged |
| ^DENT(228.3, | TREATMENT PLAN CONSTANT DATA | 107 records = 18 KB static |
| ^DENT(228.4, | TOOTH | 32 records = 4 KB static |
| ^DENT(228.42, | DENTAL GROUPING FOR VA-DSS | 131 records = 141 KB static |
| ^DENT(228.6, | DENTAL TP NOTES | 50 records ~ 16 KB dynamic |
| ^DENT(228.7, | DENTAL TP RESERVE | 50 records ~ 120 KB dynamic/temp* |
| ^DENT(228.8, | DENTAL CODING CHECKS | 226 records ~ 52 KB static |
| ^DENT(228.9, | DENTAL DEVICE TRACKING | 10,000 records ~ 4 MB dynamic |

- * File 225 is the DENTAL SITE PARAMETERS file. It may grow if additional dental clinics are added to the site.
- * File 228 is the DENTAL CPT CODE MAPPING table. This file contains 800+ nationally maintained CPT codes, but sites may add additional codes, or map additional diagnosis codes if necessary.
- * File 228.7 is used for temporary encounter data storage that is “unfiled”. Providers may save this data to complete later in the day or week and the temporary data will be deleted when the providers file the completed encounter.

Server:

| <u>Type of Data</u> | <u>Size</u> |
|---------------------|-------------|
| Application exe | 7.8 mb |
| Extract exe | 423K |
| Help File | 5.4 mb |

Client:

| <u>Type of Data</u> | <u>Size</u> |
|-----------------------|-------------|
| GUI component (.ocx) | 1.6 mb |
| GUI components (.dll) | 610K |

3. File List and Related Information

File Descriptions

- 220 DENTAL PATIENT
This file contains patient information pertinent to the Dental Service. It points to the Patient file (2).
- 220.1 DENTAL TOOTH STATUS CODE *Historical/no longer used*
- 220.2 DENTAL CLASSIFICATION
This file is a table of Dental treatment classifications (inpatient and outpatient) used to classify each Dental patient. This file is sent with data and is not edited at the site.
- 220.3 DENTAL TYPE OF SERVICE *Historical/no longer used*
This file is a table of Dental procedures (services) performed on (provided to) Dental patients.
- 220.4 DENTAL BED SECTION *Historical/no longer used*
This file is a table of bedsections used for the Dental reporting system.
- 220.5 DENTAL PROVIDER
This file contains information about dental providers. It contains the name of the provider, a unique provider number and the status of the provider (active or inactive). A new, 8 character, dental provider number has been implemented which will replace the old 4 character number used in Dental Record Manager.
- 220.51 DENTAL PROVIDER TYPE
This file contains a list of Provider Types used to categorize the different types of Dental Providers within Dental Record Manager. The CODE field will be zero-filled and will become the first two characters of the new 8 character Dental Provider Id# used in DRM reports. This file is sent with data and is not edited at the site.
- 220.52 DENTAL PROVIDER SPECIALTY
This file contains a list of Provider Specialties used to categorize the different types of Dental Providers within Dental Record Manager. The CODE field will be zero-filled and will become the second two characters of the new 8 character Dental Provider Id# used in DRM reports. This file is sent with data and is not edited at the site.
- 220.6 DENTAL SCREEN (USER) *Historical/no longer used*

This file contains the screen formats used throughout the package to edit/display information from the Dental package files.

221 DENTAL TREATMENT (AMIS) *Historical/no longer used*

The Treatment file contains all dental treatments for each patient entered by the date of treatment and the provider ID #. This is the core of the dental package where all dental activities are recorded. Entries are usually recorded in this file on a daily basis.

222 DENTAL FEE BASIS (AMIS) *Historical/no longer used*

This file contains applications and Dental fee data and selected general management and planning data on dental outpatients, class I-VI. A monthly service report is prepared by each facility having dental outpatient activities. Facilities having a Dental fee jurisdiction will complete all necessary information.

223 DENTAL CLASS I-VI (AMIS) *Historical/no longer used*

This information is used to report the number of staff class I-VI treatment cases authorized, the number of staff class I-VI cases pending initiation of treatment and the number of staff class I-VI treatment cases pending completion. This information is entered by the Dental Service monthly.

224 DENTAL PERSONNEL (AMIS) *Historical/no longer used*

This file contains personnel information pertinent to Dental Service employees. This information is used to report the days worked during the report period for all dental personnel, plus the number of patient visits to consultants and attendings. This information is entered by the Dental Service monthly.

225 DENTAL SITE PARAMETERS

This file contains three site parameters that each facility must complete. They are the station.division number of the facility, the port number that their card reader is connected to, and whether or not the site is sending data to Austin over VADATS (*This last parameter should currently be disabled for every site*). **Note: Dental Card Readers are no longer used and VADATS was replaced with an HL7 interface in 2004. Currently both VADATS and the HL7 interface are deprecated.**

226 DENTAL NON CLINICAL TIME

This file contains the non-clinical time spent by each dental provider in each of four categories: Administrative; Research; Fee Basis and Education and Training. This information is totaled for the month, then combined with the data in the Dental Personnel file to produce a monthly personnel report.

227 DENTAL CANNED COMMENTS

This file contains default canned comments to be used in the new Exam Reporting functionality released with DENT*1.2*59. This file is sent with data. Users and administrators of the DRM Plus application can add canned comments for their use in the exam reporting functionality. A maximum number of 12 per section will be displayed to the user in the GUI.

228 DENTAL CPT CODE MAPPING

This file contains CPT codes used in the DRM Plus application. It maps the CPT codes used in Dental to default ICD9 diagnosis file. It also contains various fields to determine graphical display and workload.

This file is controlled by VA Dental Central Office. It should not be modified except through use of the Dental DRM GUI. When national updates are necessary, the file is sent to the sites with data.

228.1 DENTAL HISTORY

Contains encounter-level information for a dental encounter.

228.2 TREATMENT PLAN TRANSACTION/EXAM

This file contains transaction-level information for a dental encounter.

228.25 DES/HL7 TRANSMISSION

This file will track the HL7 transmission status of records in files 228.1/228.2. If the site does not receive acknowledgement of a transaction sent to Austin within two weeks, the transaction will be automatically resent without user intervention. This file is purged of data older than six months during the weekly HL7 processing job.

228.3 TREATMENT PLAN CONSTANT DATA

This file contains the name of the various constant data variable names used in the GUI Component. For each data name there is an associated long integer value that is relevant to the GUI Component. This file is sent with data and is not edited at the site.

228.4 TOOTH

This file contains information for the 32 teeth. The data in this table is maintained nationally by the VAHQ Dental Service. This table will help map Discus treatment Planning software transactional data elements to terms that a human can understand. This file is sent with data and is not edited at the site.

228.42 DENTAL GROUPING FOR VA-DSS

This file contains 6-character codes to be used by Decision Support Systems HL7 extracts. VA-DSS prefers to group similar ADA/CPT codes under one heading for the costing programs. This file is sent with data and is not edited at the site.

228.5 DENTAL FEE BASIS EXTRACT *Historical/no longer used*

This file records data that is pertinent to the Dental Central Office for managing fee basis dental treatment.

228.6 DENTAL TP NOTES

This file keeps track of the tooth notes for Treatment Planning. These are like electronic yellow sticky notes. There should only be one note per day per patient per tooth. The tooth number must be a value of 1-32 or 0 which indicates a general patient note, or a sequencing note. A tooth# of 99 indicates a supernumerary tooth.

228.7 DENTAL TP RESERVE

This file contains reserved transaction data, stored by provider and patient, that can be called up again to use within the new Dental Treatment Plan screens. Dental providers will use this file to save data for future editing without being forced to file all data to DES, DAS and/or PCE.

228.8 DENTAL CODING CHECKS

This file contains coding compliance rules that are evaluated as users enter ADA (CPT) codes into DRM Plus. Rules may generate errors which prevent the use of the code, or informational warnings. For example, users may not use code D2950 (Core build-up incl any pins) in the same visit, on the same tooth, as code D2951 (Tooth pin retention). This file is sent with data and is not edited at the site.

228.9 DENTAL DEVICE TRACKING

This file contains data regarding dental devices which are associated with patients. These devices are tracked regarding assignment to a patient as well as their removal. The file is to be used to maintain a record of dental devices and allow for easier tracking should an event such as a recall were to take place.

4. Routine Descriptions

DENTVA1 ;DSS/KC - PROVIDER-CLINIC SUMMARY REPORTS;11/18/2003 13:26
DENTVA11 ;DSS/KC - DRM SUMMARY REPORTS USING RVU;11/18/2003 13:26
DENTVA12 ;DSS/KC - DRM SUMMARY REPORTS USING RVU;11/18/2003 13:26
DENTVA2 ;DSS/KC - DRM SITTINGS REPORTS USING RVU, DISTPROV;11/18/2003 13:26
DENTVA21 ;DSS/KC - DRM SITTINGS REPORTS;11/20/2003 13:26
DENTVA22 ;DSS/KC - DRM SITTINGS REPORTS USING RVU, DISTPROV;11/18/2003 13:26
DENTVA3 ;DSS/KC - DRM SITTING AND VISITS REPORT;10/20/2003 11:26
DENTVA4 ;DSS/KC - KLF Dental Reports;10/27/2003 10:05
DENTVA5 ;DSS/KC - KLF Dental Reports;10/27/2003 10:05
DENTVA51 ;DSS/KC - KLF Dental Reports;10/27/2003 10:05
DENTVA6 ;DSS/KC - KLF Dental Reports;10/27/2003 10:05
DENTVA7 ;DSS/KC - ENCOUNTERS BY PATIENT REPORT;06/20/2005 10:41
DENTVA8 ;DSS/AJ - Dental Chunked Reports 1 69;9/8/2016 9:59
DENTVAU ;DSS/KC - Utilities for Dental Reports;11/17/2003 15:17
DENTVCC ;DSS/BD - DENTAL CANNED COMMENTS ;11/17/2003 15:17
DENTVCK ;DSS/KC - CODING CHECKS ;2/21/2007 14:21
DENTVDD ;DSS/SGM - CALLS FROM DENTAL DDs ;03/19/2002 22:35
DENTVDD1 ;DSS/SGM - CALLED FROM DD INDEXES ;11/07/2003 09:33
DENTVFB ;DSS/KC - RPC CALLS FOR DSS DENTAL ;10/16/2003 15:08
DENTVGUI ;DSS/AJ - DENTAL GUI Version Checks;10/31/2013
DENTVHL ;DSS/LM - Dental Transaction Extract HL7 Messaging ;5/29/2003 16:40
DENTVHL1 ;DSS/LM - Dental Transaction Extract HL7 Messaging ;5/29/2003 16:40
DENTVHL2 ;DSS/LM - Dental Transaction Extract HL7 Messaging ;5/29/2003 16:40
DENTVHL3 ;DSS/LM - Dental Transaction Extract HL7 Messaging ;5/29/2003 16:40
DENTVHLB ;DSS/LM - Dental Transaction Extract HL7 Messaging ;5/29/2003 16:40
DENTVHLF ;DSS/KC - Dental Fee Basis Extract HL7 Messaging ;4/05/2004 16:00

DENTVHLP ;DSS/LM - Dental Encounter Extract Post-Init ;5/29/2003 16:40
DENTVHLU ;DSS/LM - Dental Encounter Extract Utilities ;5/29/2003 16:40
DENTVI99 ;DSS/SGM - GENERATE THE DENTVI_{xx} ROUTINES ;12/18/2001 10:02
DENTVICD ;DSS/AJ - Dental ICD Utilities;10/1/2013 9:12
DENTVIN ;DSS/KC - INACTIVATE DENTAL PATIENTS ;03/21/2007 15:37
DENTVIP ;DSS/SGM - PRE/POST INIT ROUTINE ;04/21/2003 21:16
DENTVIP1 ;DSS/SGM - PRE/POST FILE 228 ;02/10/2004 18:09
DENTVIP2 ;DSS/SGM - POST-INSTALL VERIFY CPT LOADED ;02/11/2004 21:00
DENTVIP3 ;DSS/SGM - INITIALIZATION OF DENTV SYS PARAMETERS ;02/10/2004 18:09
DENTVM1 ;DSS/KC - QUEUE AND POLL MONITORS;02/12/2009 09:46
DENTVPAR ;DSS/DBB - INITIALIZATION OF DENTV SYS PARAMETERS ;03/25/03
DENTVPCE ;DSS/CAJ - PCE UTILITIES ;6/9/2015 11:50
DENTVRF0 ;DSS/SGM - UTILITIES FOR FILING DATA ;11/19/2003 21:36
DENTVRH ;DSS/SGM - RPCs To Return Dental History ;01/21/2004 21:43
DENTVRP1 ;DSS/SGM - RPC CALLS FOR DSS DENTAL CPRS ;07/30/2003 22:21
DENTVRP2 ;DSS/SGM - RPC CALLS FOR DSS DENTAL CPRS ;07/27/2003 17:16
DENTVRP3 ;DSS/SGM - DSS DENTAL EDIT FILE 228 ;06/26/2003 15:35
DENTVRP4 ;DSS/SGM - RPC CALLS FOR DSS DENTAL ;07/26/2003 07:50
DENTVRP5 ;DSS/KC - DSS DENTAL PROVIDER EDIT FILE 220.5 ;01/13/2004 10:53
DENTVRP8 ;DSS/KC - QUEUE THE DENTAL EXTRACT ;03/15/2004 09:37
DENTVRP9 ;DSS/SGM - RETURN DATA FROM HISTORY FILE ;08/12/2003 19:37
DENTVRPA ;DSS/SGM - TREATMENT PLAN RPCS ;01/11/2002 16:54
DENTVRPB ;DSS/SGM - RPCS TO ADD TREATMENT PLAN ;02/05/2002 15:27
DENTVRPC ;DSS/SGM - RPCS TO GET TREAT PLANS ;02/05/2002 15:27
DENTVRX1 ;DSS/SGM - KERNEL PARAMETER RPCS ;07/24/2003 15:15
DENTVUTL ;DSS/SGM - COMMON CALLS FOR GUI ;12/21/2001 10:41
DENTVTP0 ;DSS/SGM - COMMON UTILITIES FOR TP ;11/23/2003 22:29
DENTVTP1 ;DSS/SGM - TP GET ADA TABLE, PROVIDERS ;11/10/2003 09:37
DENTVTP2 ;DSS/SGM - FILE DES RECORD FOR TREATMENT PLAN ;11/04/2003 15:23
DENTVTP3 ;DSS/KC - TREATMENT PLAN DATA RETRIEVAL ;11/03/2003 16:54
DENTVTP4 ;DSS/KC - RPCS TO FILE TREATMENT PLAN DATA;11/04/2003 15:27
DENTVTP5 ;DSS/KC - TREATMENT PLAN DATA RETRIEVAL ;11/03/2003 16:54
DENTVTP6 ;DSS/SGM - RPCS FOR TOOTH NOTES ;11/24/2003 16:41
DENTVTP7 ;DSS/KC - RPCS FOR RESERVED TXNS ;05/11/2004 13:35
DENTVTPA ;DSS/SGM - FILE TP TRANSACTION DATA ;11/26/2003 16:25
DENTVTPC ;DSS/SGM - FILE TP TRANSACTIONS ;11/23/2003 22:29
DENTVTPD ;DSS/SGM - FILE PCE DATA FOR TP ;12/11/2003 14:15
DENTVTPE ;DSS/KC - UPDATE PCE DATA FOR TP ;04/11/2007 9:05
DENTVTPF ;DSS/KC - UPDATE PCE DX FOR TP ;06/20/2007 10:59
DENTVUTL ;DSS/SGM - COMMON CALLS FOR GUI ;07/22/2003 15:25
DENTVX2 ;DSS/AJ - Dental Parameter RPCs ;10/11/2013 9:52
DENTVXPR ;DSS/SGM - EDIT DENTV PARAMETERS ;08/29/2003 00:31

5. Exported Options

Menu Option by Name

RPC: DDR GETS ENTRY DATA
RPC: DDR KEY VALIDATOR
RPC: DDR LISTER
RPC: DDR LOCK/UNLOCK NODE
RPC: DDR VALIDATOR
RPC: TIU LOCK RECORD
RPC: DENTV ADA CODES QUICK
RPC: DENTV ADD QL ENTRY
RPC: DENTV DD GET DATA
RPC: DENTV DD GET/ADD RECORD
RPC: DENTV DD SECURITY KEY
RPC: DENTV DELETE HISTORY ENTRY
RPC: DENTV DD FIELD UPDATE
RPC: DENTV DELETE QL ENTRY
RPC: DENTV DENT HISTORY ENC
RPC: DENTV DENTAL CLASSIFICATIONS
RPC: DENTV EXCEL EXTRACT
RPC: DENTV FILE ADMIN TIME
RPC: DENTV FILE DATA
RPC: DENTV GET CATEG/CODES
RPC: DENTV GET CATEGORIES
RPC: DENTV GET CODE LIST
RPC: DENTV TOOTH HISTORY
RPC: TIU CREATE RECORD
RPC: TIU UNLOCK RECORD
RPC: GMRC LIST CONSULT REQUESTS
RPC: ORQQCN GET CONSULT
RPC: ORWU DEVICE
RPC: DENTV DENTAL PROVIDER
RPC: DSIC DDR LISTER
RPC: DSIC DATE CONVERT
RPC: DENTV MULT PARAM
RPC: DSIC UPDATE PROBLEM
RPC: DSIC ADD PROBLEM
RPC: DSIC DDR GETS ENTRY DATA
RPC: DSIC PX IMMUN LIST
RPC: DSIC GET VISITS/APPOINTMENT
RPC: DSIC GET SC CONDITIONS
RPC: DSIC DDR FINDER
RPC: DSIC DDR LISTER
RPC: DSIC ICD9 GET LIST
RPC: DSIC VA DEFAULT SITE
RPC: DSIC USER DEF DIV
RPC: DSIC XPAR MULT ACTION
RPC: DSIC XPAR ADD
RPC: DSIC XPAR DEL
RPC: DSIC XPAR DEL ALL
RPC: DSIC XPAR EDIT
RPC: DSIC XPAR GET ALL
RPC: DSIC XPAR GET ALL FOR ENT
RPC: DSIC XPAR GET VALUE
RPC: DSIC XPAR GET WP
RPC: DSIC XPAR REPLACE INST
RPC: DSIC ACTIVE USER
RPC: DSIC ACTIVE USER LIST
RPC: DENTV INPATIENT BEDSECTION

RPC: DSIC PX PRIMARY
 RPC: ORWPS ACTIVE
 RPC: ORWPS DETAIL
 RPC: ORWPS MEDHIST
 RPC: DENTV FEE BASIS ADD
 RPC: DENTV FEE BASIS LIST
 RPC: DSIC FM FILER
 RPC: DENTV TP ADD ENCOUNTER
 RPC: DENTV TP GET ADA TABLE
 RPC: DENTV TP GET PROVIDERS
 RPC: DSIC ACTIVE PERSON CLASS
 RPC: DENTV TP FILE HNC
 RPC: DENTV TP FILE PERIO
 RPC: DENTV TP FILE PSR
 RPC: DENTV TP FILE TOOTH NOTE
 RPC: DENTV TP GET TOOTH NOTES
 RPC: DENTV TP GET TRANSACTIONS
 RPC: DENTV TP GET HNC
 RPC: DENTV TP GET PSR
 RPC: DENTV TP GET PERIO
 RPC: DENTV TP FILE TRANSACTIONS
 RPC: DENTV DELETE TRANSACTIONS
 RPC: DENTV REPORT PROVIDERS
 RPC: DENTV REPORT DATA
 RPC: DENTV GET ALL PROVIDERS
 RPC: DENTV GET PROVIDER TYPES
 RPC: DENTV GET PROVIDER SPECIALTIES
 RPC: DENTV PROVIDER ADD UPDATE
 RPC: DSIC FM FIND
 RPC: DENTV NEW EXTRACT
 RPC: DENTV TP GET OLD ENCOUNTERS
 RPC: DENTV FILE PARAMETERS
 RPC: TIU TEMPLATE GETITEMS
 RPC: TIU TEMPLATE GETROOTS
 RPC: TIU TEMPLATE GETBOIL
 RPC: TIU TEMPLATE GETTEXT
 RPC: TIU FIELD LOAD
 RPC: TIU GET LIST OF OBJECTS
 RPC: TIU TEMPLATE GETLINK
 RPC: DENTV TP FILE RESERVED TXNS
 RPC: DENTV TP GET RESERVED TXNS
 RPC: DSIC ICD9 GET DIAGNOSIS
 RPC: ORWTIU WINPRINT NOTE
 RPC: DENTV GET VA-DSS PRODUCTS
 RPC: DSIC SEND ALERT
 RPC: DSIC XPD PATCH
 RPC: ORWU DT
 RPC: DENTV REPORT KLF
 RPC: DENTV PRIMARY PROVIDER
 RPC: DENTV ADA GET COSTS
 RPC: DENTV GET CODING GUIDELINES
 RPC: DENTV ALERTS
 RPC: DENTV PATIENT PROVIDER
 RPC: DENTV ACTIVE USER PROVIDER
 RPC: DENTV GET COVER PAGE INFO
 RPC: DENTV TP GET LAST STATUS

RPC: DENTV TP CODE CHECKS
RPC: DENTV UPDATE PCE
RPC: DENTV UPDATE PCE DX
RPC: DSIC CPT FIND
RPC: ORQQCN LIST
RPC: DENTV MONITOR QUEUE
RPC: DENTV MONITOR POLL
RPC: DENTV DELETE UNFILED DATA
RPC: DENTV GET UNFILED DETAIL
RPC: DENTV TP CLEAN SLATE
RPC: DENTV TP FILE EXAM TRANSACTION
RPC: DENTV TP GET EXAM TRANSACTIONS
RPC: TIU TEMPLATE GET TEMPLATE
RPC: DSIC DDR FILER
RPC: ORQQPX REMINDERS LIST
RPC: GMV ALLERGY
RPC: GMV ADD VM
RPC: GMV GET CATEGORY IEN
RPC: GMV GET VITAL TYPE IEN
RPC: GMV MANAGER
RPC: GMV USER
RPC: GMV V/M ALLDATA
RPC: VAFCTFU CONVERT ICN TO DFN
RPC: GMV MARK ERROR
RPC: GMV DLL VERSION
RPC: GMV CONVERT DATE
RPC: GMV GET CURRENT TIME
RPC: GMV LATEST VM
RPC: GMV PARAMETER
RPC: GMV VITALS/CAT/QUAL
RPC: GMV LOCATION SELECT
RPC: GMV EXTRACT REC
RPC: VAFCTFU CONVERT DFN TO ICN
RPC: GMV CLOSEST READING
RPC: DENTV GET CLEAN SLATE LIST
RPC: DENTV GET CANNED COMMENTS
RPC: DENTV FILE CANNED COMMENTS
RPC: DENTV UPDATE COMMENT SORT
RPC: DENTV DEL CANNED COMMENT
RPC: DENTV PERSON CLASS INQUIRY
RPC: DENTV TP RESERVED INACT CHECK
RPC: ORWCH LOADSIZ
RPC: DENTVUTL PNL PANEL CHG
RPC: DENTV DPT GET ICN
RPC: DSIC XPAR CHG WP
RPC: DENTVX2 GETWP
RPC: DENTVX2 FILEWP
RPC: DENTVGUI VERSION GET
RPC: DENTVICD ACTICD
RPC: DENTVICD ICD GET DIAG
RPC: DENTVICD ICD10 ACTIVATION DATE
RPC: DENTVICD LIST
RPC: DENTVPCE PCE PRIMARY
RPC: DENTV ADD/EDIT COMPLICATIONS
RPC: DENTV GET COMPLICATIONS
RPC: DENTVTPC GET DEVICE

RPC: DENTVTPC SET DEVICE
RPC: DENTVTPC DELETE DEVICE
RPC: DENTVAU CHUNK REPORTS
RPC: DENTVAU LIST REPORTS
UPPERCASE MENU TEXT: DENTAL DSS DRM GUI

The following option may be assigned to a dental administrator as a secondary menu:

NAME: DENTV INACTIVATE PATIENTS MENU TEXT: Inactivate Dental Patients
TYPE: run routine
DESCRIPTION: This option will queue a background job to traverse the Dental Patient file to see which patients have not had a visit within the user specified time frame. The time frame is defaulted to T-1170 days (approx 3 years), and cannot be within the last 365 days (1 year). Patient's without a visit will have the DAS DISPOSITION field in the Dental History file set to an inactive status, either Complete or Terminated, based on whether there is existing planned transactions. All of the associated transactions in file 228.2 will be resent to the AAC by setting the HL7 Status flag="P".
ROUTINE: INACT^DENTVIN
UPPERCASE MENU TEXT: INACTIVATE DENTAL PATIENTS

NAME: DENTVHL PROCESS HISTORIC
MENU TEXT: Process one-time historical extract (Dental)
TYPE: run routine PACKAGE: DENTAL
ROUTINE: EN^DENTVHL3
SCHEDULING RECOMMENDED: YES
UPPERCASE MENU TEXT: PROCESS ONE-TIME HISTORICAL EX

Note: this option is a 'one-time' use to update the Austin SQL database.

The following option can be used to check the DENTAL CPT CODE MAPPING file for terminal testing purposes:

NAME: DENTV CPT CODE MAPPING INQUIRY
MENU TEXT: DENTV CPT CODE MAPPING INQUIRY
TYPE: inquire CREATOR: ROISTAFF,CHIEF O
PACKAGE: DENTAL
DESCRIPTION: This is a menu option for the inquiry of the DENTAL CPT CODE MAPPING file (#228) for testing or knowledge gathering purposes.
Short Menu Text: CPT Code Mapping Inquiry
DIC {DIC}: DENT(228, DIC(0): AEQM
DIC {DIP}: DENT(228, FLDS: [DENTV CPT CODE MAPPING INQUIRY]
DIC {DIQ}: DENT(228, TIMESTAMP OF PRIMARY MENU: 65295,30298
UPPERCASE MENU TEXT: DENTV CPT CODE MAPPING INQUIRY

The following option is deprecated and should not be queued to run. If running, it should be turned off.

NAME: DENTVHLB BATCH MENU TEXT: Dental HL7 Batch
TYPE: run routine PACKAGE: DENTAL
DESCRIPTION: Tasked process to generate HL7 Dental Transaction messages for batch processing to AAC and HDR.
ROUTINE: BAT^DENTVHLB SCHEDULING RECOMMENDED: YES
UPPERCASE MENU TEXT: DENTAL HL7 BATCH

Note: The HDR update was never implemented in this option.

Remote Procedure Calls (RPC) by Functional Category

(please refer to file 8994 for details regarding each call listed below)

| | |
|--------------------------------|------------------|
| DENTV ACTIVE USER PROVIDER | LIST^DENTVUTL |
| DENTV ADA CODES QUICK | GET^DENTVRP2 |
| DENTV ADA GET COSTS | GC^DENTVRP3 |
| DENTV ADD QL ENTRY | ADD^DENTVRP2 |
| DENTV ADD/EDIT COMPLICATIONS | COMP^DENTVTP2 |
| DENTV ALERTS | GAL^DENTVUTL |
| DENTV DD FIELD UPDATE | FILE^DENTVRP3 |
| DENTV DD GET DATA | GTD^DENTVRP3 |
| DENTV DD GET/ADD RECORD | ADD^DENTVRP3 |
| DENTV DD SECURITY KEY | KEY^DENTVRP3 |
| DENTV DEL CANNED COMMENT | DEL^DENTVCC |
| DENTV DELETE HISTORY ENTRY | DELH^DENTVRHD |
| DENTV DELETE QL ENTRY | DEL^DENTVRP2 |
| DENTV DELETE TRANSACTIONS | DELT^DENTVRHD |
| DENTV DELETE UNFILED DATA | DELU^DENTVRHD |
| DENTV DENT HISTORY ENC | ENC^DENTVRH |
| DENTV DENTAL CLASSIFICATIONS | DC^DENTVRP1 |
| DENTV DENTAL PROVIDER | PROV^DENTVRP1 |
| DENTV DPT GET ICN | ICN^DENTVUTL |
| DENTV EXCEL EXTRACT | EXCEL^DENTVRP9 |
| DENTV FEE BASIS ADD | ADD^DENTVFB |
| DENTV FEE BASIS LIST | LIST^DENTVFB |
| DENTV FILE ADMIN TIME | NON^DENTVRP4 |
| DENTV FILE CANNED COMMENTS | FILE^DENTVCC |
| DENTV FILE DATA | UPD^DENTVRF |
| DENTV FILE PARAMETERS | PAR^DENTVTP0 |
| DENTV GET ALL PROVIDERS | PROV^DENTVRP5 |
| DENTV GET CANNED COMMENTS | GET^DENTVCC |
| DENTV GET CATEG/CODES | CATC^DENTVRP1 |
| DENTV GET CATEGORIES | CAT^DENTVRP1 |
| DENTV GET CLEAN SLATE LIST | GETCSL^DENTVTP7 |
| DENTV GET CODE LIST | LIST^DENTVRP1 |
| DENTV GET CODING GUIDELINES | GUIDE^DENTVRP2 |
| DENTV GET COMPLICATIONS | GETCOMP^DENTVTP2 |
| DENTV GET COVER PAGE INFO | CP^DENTVTP0 |
| DENTV GET PROVIDER SPECIALTIES | SPEC^DENTVRP5 |
| DENTV GET PROVIDER TYPES | TYPE^DENTVRP5 |
| DENTV GET UNFILED DETAIL | GETUN^DENTVTP7 |
| DENTV GET VA-DSS PRODUCTS | VADSS^DENTVTP1 |
| DENTV INPATIENT BEDSECTION | INP^DENTVRP1 |
| DENTV MONITOR POLL | POLL^DENTVM1 |
| DENTV MONITOR QUEUE | QUE^DENTVM1 |
| DENTV MULT PARAM | MULT^DENTVRX1 |
| DENTV NEW EXTRACT | Q^DENTVRP8 |
| DENTV PATIENT PROVIDER | PP^DENTVUTL |
| DENTV PERSON CLASS INQUIRY | PROVINQ^DENTVUTL |
| DENTV PRIMARY PROVIDER | GS^DENTVUTL |
| DENTV PROVIDER ADD UPDATE | EDIT^DENTVRP5 |
| DENTV REPORT DATA | RPT^DENTVAU |
| DENTV REPORT KLF | KLF^DENTVAU |
| DENTV REPORT PROVIDERS | PROV^DENTVAU |
| DENTV TOOTH HISTORY | TH^DENTVRH |

| | |
|--------------------------------|------------------|
| DENTV TP ADD ENCOUNTER | ADD^DENTVTP2 |
| DENTV TP CHECK RESERVED INACT | CHKINA^DENTVTP7 |
| DENTV TP CLEAN SLATE | CLNSLT^DENTVTP7 |
| DENTV TP CODE CHECKS | CK^DENTVCK |
| DENTV TP FILE EXAM TRANSACTION | FILEX^DENTVTPA |
| DENTV TP FILE HNC | HNC^DENTVTP4 |
| DENTV TP FILE PERIO | PER^DENTVTP4 |
| DENTV TP FILE PSR | PSR^DENTVTP4 |
| DENTV TP FILE RESERVED TXNS | SAVE^DENTVTP7 |
| DENTV TP FILE TOOTH NOTE | NOTE^DENTVTP6 |
| DENTV TP FILE TRANSACTIONS | FILE^DENTVTPA |
| DENTV TP GET ADA TABLE | ADA^DENTVTP1 |
| DENTV TP GET EXAM TRANSACTIONS | GETFEX^DENTVTP7 |
| DENTV TP GET HNC | HNC^DENTVTP3 |
| DENTV TP GET LAST STATUS | LST^DENTVTP5 |
| DENTV TP GET OLD ENCOUNTERS | ENC^DENTVTP5 |
| DENTV TP GET PERIO | PERIO^DENTVTP3 |
| DENTV TP GET PROVIDERS | PROV^DENTVTP1 |
| DENTV TP GET PSR | PSR^DENTVTP3 |
| DENTV TP GET RESERVED TXNS | GET^DENTVTP7 |
| DENTV TP GET TOOTH NOTES | GET^DENTVTP6 |
| DENTV TP GET TRANSACTIONS | TXN^DENTVTP5 |
| DENTV TP RESERVED INACT CHECK | CHKINA^DENTVTP7 |
| DENTV UPDATE COMMENT SORT | UPDATE^DENTVCC |
| DENTV UPDATE PCE | UPD^DENTVTPE |
| DENTV UPDATE PCE DX | UDX^DENTVTPE |
| DENTVAU CHUNK REPORTS | CHUNK^DENTVAU |
| DENTVAU LIST REPORTS | LIST^DENTVAU |
| DENTVGUI VERSION GET | VERSION^DENTVGUI |
| DENTVICD ACTICD | ACTICD^DENTVICD |
| DENTVICD ICD GET DIAG | ICD^DENTVICD |
| DENTVICD ICD10 ACTIVATION DATE | ICD10^DENTVICD |
| DENTVICD LIST | LIST^DENTVICD |
| DENTVPCE PCE PRIMARY | PCE^DENTVPCE |
| DENTVTPC DELETE DEVICE | DELDEV^DENTVTPC |
| DENTVTPC GET DEVICE | GETDEV^DENTVTPC |
| DENTVTPC SET DEVICE | SETDEV^DENTVTPC |
| DENTVUTL PNL PANEL CHG | PNL^DENTVUTL |
| DENTVX2 FILEWP | FILEWP^DENTVX2 |
| DENTVX2 GETWP | GETWP^DENTVX2 |

6. Archiving and Purging

No Dental files are archived. Two files are purged during the normal workflow:

228.25 – DES/HL7 TRANSMISSION (purged of data older than six months each week)

228.7 – DENTL TP RESERVE (purged of data older than seven days or when the provider completes the encounter using this reserve (unfiled) data.

7. Callable Routines

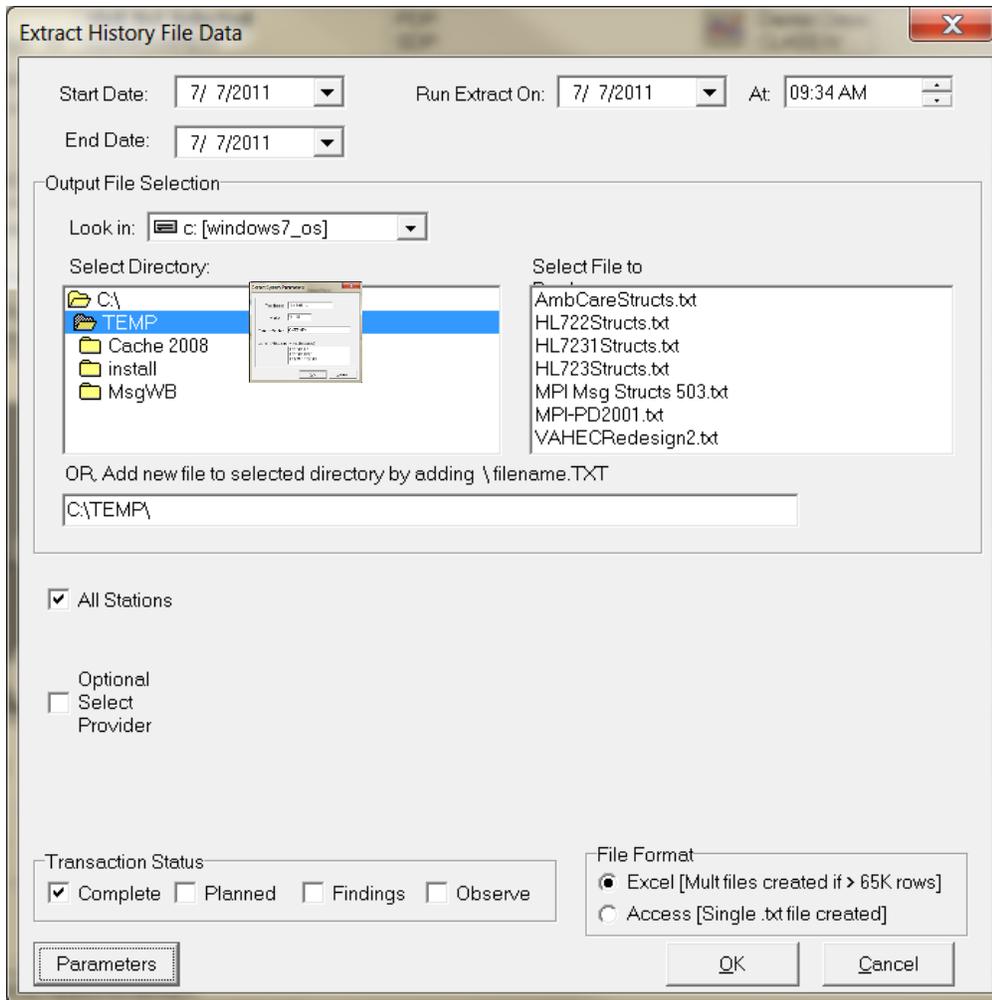
There are no callable routines in this package.

8. External Relations

1. The following VISTA applications must reside in the system before DRM Plus can be installed:
 - a. VA FileMan V. 22 or greater,
 - b. Kernel V. 8.0 or greater,
 - c. Kernel Toolkit V. 7.3 or greater,
 - d. Kernel PIV RPC Broker V. 1.1 or greater,
 - e. Registration (DG) 5.3 or greater,
 - f. Order Entry (OR) 3.0 or greater,
 - g. Patient Care Encounter (PX) 1.0 or greater,
 - h. Clinical Reminders (PXR) 2.0 or greater,
 - i. Text Integration Utilities (TIU) 1.0 or greater,
 - TIU*1.0*252 is required for DENT*1.2*59
 - j. Consult/Request Tracking (GMRC) 3.0 or greater,
 - k. Gen. Med. Rec. - Vitals (GMRV) 5.0 or greater,
 - GMRV*5.0*23 is required for DENT*1.2*59
 - a. DSIC V. 1.5 or greater
2. Integration Control Registration entries (ICRs) between the DRM Plus and other VISTA applications are summarized in Addendum A.

9. Internal Relations

DRM Plus has a separate TCP/IP service that runs when a user uses the DRM Extract functionality. It requires the use of an IP address, for where the DRMEXTSRV resides, as well as a port number that designates where the port will be listening. These parameters are defined in the New Extract History option in DRM Plus available on the DRM Plus Tools menu:



The DRMEXTSRV must reside in the same location as the DRM Plus application. This is typically in the ..\DOCSTORE folder.

The IP address is stored within the system parameter DENTV DRM EXTRACT IP
 The Port number is stored within the system parameter DENTV DRM EXTRACT PORT
 The default folder is stored within the system parameter DENTV DRM EXTRACT FOLDER

10. Global Variables

None.

11. SAC Exemptions

There are no SAC Exemption associated with this package.

12. Software Product Security

Legal Requirements

DRM Plus is developed on contract by Document Storage Systems Inc. Document Storage Systems, Inc. (contractor) assert a copyright in, patent rights and all other intellectual property rights of any kind to any and all original computer software developed in connection with this contract and grant to the Government the unlimited right to use, disclose, reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, in any manner and for any purpose, and to have or permit others to do so, retaining all rights outlined in FARs 52.227-11 and 52.227-14.

Mail Groups, Alerts, Bulletins

There are two mail groups in the DENTV package:

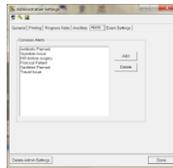
1. DENTV ADA CODE MAPPING

This mail group will be used to alert users of changes to the DENTAL CPT CODE MAPPING table (#228). These changes might include additions, deletions to codes or additions/deletions of diagnosis codes associated with the mapped codes.

2. DENTV HL7 MESSAGES

This mail group reports errors in Dental Transaction HL7 Message generation and processing. HL7 messaging has been replaced by a VHA Office of Dentistry VistA Extract application designed and developed by the VHA Office of Dentistry or a designee.

DRM Plus creates user alerts for package . These alerts display on



progress note signature through the Alerts the CPRS patient selection page.

DRM Plus also has a dental alert display in the DRM Plus banner. Pre-defined alerts are contained in the DENTV TX ALERTPRESETS parameter. These alerts may be edited or new alerts added by a dental administrator on the DRM Plus Tools menu, Administrative options:

There are no dental bulletins in the package.

Archiving

n/a

Electronic Signatures

DRM Plus allows provides to sign and/or cosign progress notes using approved Text Integration Utilities (TIU) APIs. Progress notes created in DRM Plus are viewable in CPRS. The dental application follows all VistA TIU processes when signatures are required, for example, unsigned

notes are not viewable by other providers, notes requiring cosignature are set to the appropriate status and the attending provider is notified using VistA Alerts. Unsigned notes also produce VistA Alerts visible on the CPRS patient selection screen.

When applied to an approved medical record, an electronic signature has the same legal weight as a signature made with a pen on paper. For this reason electronic signatures are part of the overall security system maintained by IRMS.

When the computer prints a document that has been signed and/or cosigned, an electronic signature block is included. What appears in this block for notes signed in DRM Plus is user configurable through CPRS.

Security Keys

There are no active security keys in this package. DENTV EDIT FILE is an obsolete/historical key that is no longer used by DRM Plus.

File Security

Dental file security follows all VHA Database Administrator (DBA) requirements for read/write/create/delete access.

Troubleshooting

The DRM Plus Admin guide contains some troubleshooting steps and is available on the VA Dental Intranet site and the VistA Documentation Library (VDL).

References

- VA Dental Intranet site
<http://vaww4.va.gov/dental/>
- American Dental Association website
www.ada.org
- VistA Lexicon Intranet site
<http://vista.med.va.gov/lexicon/>
- PMAS
<http://vaww.oed.portal.va.gov/pmas/Pages/default.aspx>
- ProPath
<http://vaww.oed.oit.va.gov/process/propath/>
- VHA Strategic Goals and Power of Performance Goals
http://vaww.ush.va.gov/docs/crosswalk_strategic_framework.pdf
- VistA Standards and Conventions
<http://vista.med.va.gov/sacc/>

Official Policies

DRM Plus follows all VA policies in regards to patient privacy, security, software development and software release. These include the Health Insurance Portability and Accountability Act (HIPAA), the Project Management Accountability System (PMAS) and ProPath among others. DRM Plus also adheres, and enhances the product to follow, VHA policies, notices and directives for VHA dental users.

The VA dental software is updated biennially to reflect changes from the American Dental Association (ADA) and up to four times per year to reflect changes in the codes managed by the VA Lexicon team that affect the dental software.

Security Management

No additional security measures are to be applied. DRM Plus uses the standard PIV RPC Broker log-in procedure to validate the user and allow access to the system. The PIV RPC Broker uses two factor authentication (2FA) for system access.

13. Glossary

Access Code A unique sequence of characters known by and assigned only to the user, the system manager and/or designated alternate(s). The access code (in conjunction with the verify code) is used by the computer to identify authorized users.

ADP Coordinator/ADPAC/Application Coordinator Automated Data Processing Application Coordinator. The person responsible for implementing a set of computer programs (application package) developed to support a specific functional area such as Nursing, PIMS, etc.

Application A system of computer programs and files that have been specifically developed to meet the requirements of a user or group of users. Examples of VistA applications are the PIMS and CPRS application.

Archive The process of moving data to some other storage medium, usually a magnetic disk, and deleting the information from active storage in order to free-up disk space on the system.

Backup Procedures The provisions made for the recovery of data files and program libraries and for restart or replacement of ADP equipment after the occurrence of a system failure.

Cache A scalable/object database developed by InterSystems used to run VistA.

Contingency Plan A plan which assigns responsibility and defines procedures for use of the backup/restart/recovery and emergency preparedness procedures selected for the computer system based on risk analysis for that system.

Data Dictionary A description of file structure and data elements within a file.

DBA Database Administrator. The VHA DBA Responsible for ensuring file structures and data meet SAC standards.

Device A hardware input/output component of a computer system (e.g., CRT, printer).

Edit Used to change/modify data typically stored in a file.

Field A data element in a file.

File The M construct in which data is stored for retrieval at a later time. A group of related records.

File Manager or FileMan Within this manual, FileManager or FileMan is a reference to VA FileMan. FileMan is a set of M routines used to enter, edit, print, and sort/ search related data in a file; a data base.

Global An M term used when referring to a file stored on a storage medium, usually a magnetic disk. In the ICB software, for example, Buffer Audit data is stored in one global, and Exception Report data is stored in another global.

GUI Graphical User Interface - a Windows-like screen that uses pull-down menus, icons, pointer devices, and other metaphor-type elements that can make a computer program more understandable, easier to use, allow multi-processing (more than one window or process available at once), etc.

HL7 Health Level 7 – the interface messaging standard previously used by dental to send site encounter data to Austin for national reporting.

ICR (IA) Integration Control Registrations (Integration Agreements). Agreements with other VistA packages to call APIs or make references to globals within their namespace.

IRM Information Resource Management.

Kernel A set of software utilities. These utilities provide data processing support for the application packages developed within the VA. They are also tools used in configuring the local computer site to meet the particular needs of the hospital. The components of this operating system include: MenuMan, TaskMan, Device Handler, Log-on/Security, and other specialized routines.

KIDS Kernel Installation & Distribution System. An installable update (full build or patch) for an application on VISTA.

M Formerly known as MUMPS or the Massachusetts (General Hospital) Utility Multi-Programming System. This is the programming language used to write VistA applications that reside in Cache.

MailMan An electronic mail, teleconferencing, and networking system.

Menu A set of options or functions available to users for editing, formatting, generating reports, etc.

Namespace A naming convention followed in the VA to identify various applications and to avoid collision between applications. It is used as a prefix for all routines and globals used by the application. The Dental package uses DENTV as its namespace.

Option A functionality that is invoked by the user. The information defined in the option is used to drive the menu system. Options are created, associated with others on menus, or given entry/exit actions. For example, DENTV DSS DRM GUI is the main menu for the Dental Record Manager Plus application.

Package Otherwise known as an application. A set of M routines, files, documentation and installation procedures that support a specific function within VISTA (e.g., the ADT and Fee Basis applications).

Parameter Values stored by system, package, user (or other settings) to control how a specific site or user uses the application.

Password A protected word or string of characters that identifies or authenticates a user, a specific resource, or an access type (synonymous with Verify Code).

PIMS Patient Information Management System previously known as the MAS Package.

Pointer A special data type of VA FileMan that takes its value from another file. This is a method of joining files together and avoiding duplication of information.

Program A set of M commands and arguments, created, stored, and retrieved as a single unit in M.

Protocol A single entry point referencing multiple routine entry points to execute several inter related, required processes which perform specific functions. In the case of DRM Plus protocols are used for HL7 message handling.

Queuing The scheduling of a process/task to occur at a later time. Queuing is normally done if a task uses up a lot of computer resources.

Remote Procedure The Remote Procedure file is used as a repository of server-based procedures in the context of the Client/Server architecture. By using the Remote Procedure Call PIV RPC Broker, applications running on client workstations can invoke (call) the procedures in this file to be executed by the server and the results will be returned to the client application.

<RET> Carriage return.

Routine A set of M commands and arguments, created, stored, and retrieved as a single unit in M.

SAC Standards and Conventions for programming for Veterans Health Information Systems and Technology Architecture (VistA).

Security Key A function which unlocks specific options and makes them accessible to an authorized user.

Sensitive Information Any information which requires a degree of protection and which should be made available only to authorized users.

Software A generic term referring to a related set of computer programs.

Task Manager or TaskMan A part of Kernel which allows programs or functions to begin at specified times or when devices become available. See Queuing.

User A person who enters and/or retrieves data in a system.

Utility An M program that assists in the development and/or maintenance of a computer system.

VA Veterans Administration. Umbrella organization containing VHA, VBA and Cemeteries.

VBA Veterans Benefits Administration

VHA Veterans Health Administration.

Verify Code A unique security code which serves as a second level of security access. Use of this code is site specific; sometimes used interchangeably with a password.

VistA Veterans Health Information Systems and Technology Architecture.

Workstation A computer running the Windows XP, 2000, 7 or newer operating system.

14. Addendum A

The table below lists all external routine references made in the DENTV M routines that require an Integration Control Registration (ICR).

| ICR# | Usage | Called Routine |
|-------|------------|--------------------|
| 10003 | Supported | ^%DT |
| 10000 | Supported | C^%DTC |
| 2320 | Supported | \$\$PWD^%ZISH |
| 2320 | Supported | CLOSE^%ZISH |
| 2320 | Supported | OPEN^%ZISH |
| 2118 | Supported | CALL^%ZISTCP |
| 2118 | Supported | CLOSE^%ZISTCP |
| 10063 | Supported | ^%ZTLOAD |
| 10142 | Supported | EN^DDIOL |
| 3812 | Controlled | \$\$FINDCUR^DGENA |
| 3812 | Controlled | \$\$GET^DGENA |
| 2919 | Supported | \$\$PREF^DGENPTA |
| 10006 | Supported | ^DIC |
| 2051 | Supported | \$\$FIND1^DIC |
| 2051 | Supported | FIND^DIC |
| 10009 | Supported | FILE^DICN |
| 10021 | Supported | \$\$GET1^DID |
| 2052 | Supported | FIELD^DID |
| 2052 | Supported | FILE^DID |
| 2053 | Supported | FILE^DIE |
| 2053 | Supported | UPDATE^DIE |
| 2053 | Supported | VALS^DIE |
| 2053 | Supported | WP^DIE |
| 10013 | Supported | ^DIK |
| 10013 | Supported | IX1^DIK |
| 2054 | Supported | \$\$IENS^DILF |
| 2055 | Supported | \$\$EXTERNAL^DILFD |
| 2055 | Supported | \$\$ROOT^DILFD |
| 2055 | Supported | \$\$VFIELD^DILFD |
| 2056 | Supported | \$\$GET1^DIQ |
| 2056 | Supported | GETS^DIQ |
| 10026 | Supported | ^DIR |
| 2161 | Supported | INIT^HLFNC2 |
| 2161 | Supported | MSH^HLFNC2 |
| 2164 | Supported | GENERATE^HLMA |
| 10108 | Supported | CREATE^HLTF |
| 3292 | Controlled | PTINQ^ORWPT |
| 1894 | Controlled | \$\$DATA2PCE^PXAPI |
| 1894 | Controlled | ENCEVENT^PXAPI |

| ICR# | Usage | Called Routine |
|-------|------------|--------------------|
| 3744 | Supported | \$\$TESTPAT^VADPT |
| 10061 | Supported | ADD^VADPT |
| 10061 | Supported | DEM^VADPT |
| 10061 | Supported | ELIG^VADPT |
| 10061 | Supported | IN5^VADPT |
| 10061 | Supported | KVA^VADPT |
| 10061 | Supported | SVC^VADPT |
| 3630 | Supported | BLDPID^VAFCQRY |
| 10112 | Supported | \$\$SITE^VASITE |
| 10103 | Supported | \$\$FMADD^XLFD |
| 10103 | Supported | \$\$FMDIFF^XLFD |
| 10103 | Supported | \$\$FMTE^XLFD |
| 10103 | Supported | \$\$FMTH^XLFD |
| 10103 | Supported | \$\$FMTHL7^XLFD |
| 10103 | Supported | \$\$NOW^XLFD |
| 3065 | Supported | \$\$HLNAME^XLNAME |
| 3065 | Supported | \$\$NAMEFMT^XLNAME |
| 10104 | Supported | \$\$CJ^XLSTR |
| 10104 | Supported | \$\$LOW^XLSTR |
| 10104 | Supported | \$\$TRIM^XLSTR |
| 10104 | Supported | \$\$UP^XLSTR |
| 10070 | Supported | ^XMD |
| 2263 | Supported | EN^XPAR |
| 2336 | Supported | EDIT^XPARE |
| 2336 | Supported | GETCLS^XPARE |
| 1625 | Supported | \$\$GET^XUA4A72 |
| 2171 | Supported | \$\$NS^XUAF4 |
| 2171 | Supported | \$\$STA^XUAF4 |
| 2171 | Supported | \$\$WHAT^XUAF4 |
| 2343 | Supported | \$\$ACTIVE^XUSER |
| 2533 | Controlled | \$\$DIV4^XUSER |
| 2343 | Supported | \$\$LOOKUP^XUSER |
| 2343 | Supported | \$\$PROVIDER^XUSER |

The table below lists all external file references made in the DENTV M routines, or direct Fileman access via the Delphi GUI that require an ICR.

| ICR# | Usage | External File Reference |
|-------|-----------|-------------------------|
| | | ^AUPNVSIT(|
| 10035 | Supported | ^DPT(|
| 4450 | Private | ^SCE("AVSIT" |
| 10060 | Supported | ^VA(200 |
| 10076 | Supported | ^XUSEC(|

The table below lists all Remote Procedures attached to the DENTV DSS DRM GUI option that require an ICR.

| ICR# | Usage | Remote Procedure Called |
|------|------------|---|
| 2866 | Private | DDR DELETE ENTRY |
| 2867 | Private | DDR FILER |
| 2868 | Private | DDR FIND1 |
| 2869 | Private | DDR FINDER |
| 2870 | Private | DDR GET DD HELP |
| 2871 | Private | DDR GETS ENTRY DATA |
| 3219 | Private | DDR KEY VALIDATOR |
| 2872 | Private | DDR LISTER |
| 2873 | Private | DDR LOCK/UNLOCK NODE |
| 2874 | Private | DDR VALIDATOR |
| 3402 | Supported | DG SENSITIVE RECORD ACCESS |
| 3403 | Supported | DG SENSITIVE RECORD BULLETIN |
| 3893 | Controlled | GMRC LIST CONSULT REQUESTS |
| 4831 | Controlled | GMV ADD VM *Vitals Lite dll |
| 4831 | Controlled | GMV ALLERGY *Vitals Lite dll |
| 4831 | Controlled | GMV CLOSEST READING *Vitals Lite dll |
| 4831 | Controlled | GMV CONVERT DATE *Vitals Lite dll |
| 4831 | Controlled | GMV DLL VERSION *Vitals Lite dll |
| 4831 | Controlled | GMV EXTRACT REC *Vitals Lite dll |
| 4831 | Controlled | GMV GET CATEGORY IEN *Vitals Lite dll |
| 4831 | Controlled | GMV GET CURRENT TIME *Vitals Lite dll |
| 4831 | Controlled | GMV GET VITAL TYPE IEN *Vitals Lite dll |
| 4831 | Controlled | GMV LATEST VM *Vitals Lite dll |
| 4831 | Controlled | GMV LOCATION SELECT *Vitals Lite dll |
| 4831 | Controlled | GMV MANAGER *Vitals Lite dll |
| 4831 | Controlled | GMV MARK ERROR *Vitals Lite dll |
| 4831 | Controlled | GMV PARAMETER *Vitals Lite dll |
| 4831 | Controlled | GMV USER *Vitals Lite dll |
| 4831 | Controlled | GMV V/M ALLDATA *Vitals Lite dll |
| 4831 | Controlled | GMV VITALS/CAT/QUAL *Vitals Lite dll |
| 3288 | Controlled | ORQOR LIST |
| 1641 | Controlled | ORQQAL DETAIL |
| 1639 | Controlled | ORQQAL LIST |
| 5315 | Controlled | ORQQCN GET CONSULT |
| 1671 | Controlled | ORQQCN LIST |
| 1699 | Controlled | ORQQLR DETAIL |
| 1643 | Controlled | ORQQPL DETAIL |
| 1642 | Controlled | ORQQPL LIST |
| 1692 | Controlled | ORQQPP LIST |
| 1702 | Controlled | ORQQPS DETAIL |
| 1659 | Controlled | ORQQPS LIST |

| ICR# | Usage | Remote Procedure Called |
|------|------------|-------------------------------|
| 1694 | Controlled | ORQQPX IMMUN LIST |
| 4898 | Controlled | ORQQPX REMINDERS LIST |
| 1647 | Private | ORQQVI VITALS |
| 3289 | Controlled | ORWCS LIST OF CONSULT REPORTS |
| 3290 | Controlled | ORWCS REPORT TEXT |
| 3294 | Controlled | ORWMC PATIENT PROCEDURES |
| 4594 | Controlled | ORWPS ACTIVE |
| 4927 | Controlled | ORWPS DETAIL |
| 5453 | Controlled | ORWPS MEDHIST |
| 3291 | Controlled | ORWPT LAST5 |
| 1685 | Controlled | ORWPT LIST ALL |
| 3292 | Controlled | ORWPT PTINQ |
| 1838 | Controlled | ORWRA IMAGING EXAMS |
| 1841 | Controlled | ORWRA REPORT TEXT |
| 1840 | Controlled | ORWRP REPORT LISTS |
| 1841 | Controlled | ORWRP REPORT TEXT |
| 5454 | Controlled | ORWTIU WINPRINT NOTE |
| 3293 | Controlled | ORWU CLINLOC |
| 1837 | Private | ORWU DEVICE |
| 3363 | Controlled | ORWU DT |
| 1836 | Controlled | ORWU NEWPERS |
| 1791 | Controlled | ORWU USERINFO |
| 1814 | Controlled | ORWU VALIDSIG |
| 3194 | Controlled | TIU AUTHORIZATION |
| 1805 | Controlled | TIU CREATE ADDENDUM RECORD |
| 1806 | Controlled | TIU CREATE RECORD |
| 3375 | Controlled | TIU DELETE RECORD |
| 3198 | Controlled | TIU DOCUMENTS BY CONTEXT |
| 3936 | Controlled | TIU FIELD LOAD |
| 3922 | Controlled | TIU GET LIST OF OBJECTS |
| 1782 | Controlled | TIU GET PN TITLES |
| 1635 | Controlled | TIU GET RECORD TEXT |
| 3201 | Controlled | TIU IS THIS A CONSULT? |
| 1784 | Controlled | TIU LOAD BOILERPLATE TEXT |
| 1801 | Controlled | TIU LOAD RECORD FOR EDIT |
| 3987 | Controlled | TIU LOCK RECORD |
| 3204 | Controlled | TIU LONG LIST OF TITLES |
| 3205 | Controlled | TIU PERSONAL TITLE LIST |
| 1834 | Controlled | TIU PRINT RECORD |
| 1800 | Controlled | TIU REQUIRES COSIGNATURE |
| 1790 | Controlled | TIU SIGN RECORD |
| 1670 | Controlled | TIU SUMMARIES |
| 5514 | Controlled | TIU TEMPLATE GET TEMPLATE |
| 3914 | Controlled | TIU TEMPLATE GETBOIL |

| ICR# | Usage | Remote Procedure Called |
|------|------------|-------------------------------|
| 3915 | Controlled | TIU TEMPLATE GETITEMS |
| 3920 | Controlled | TIU TEMPLATE GETLINK |
| 3916 | Controlled | TIU TEMPLATE GETROOTS |
| 3917 | Controlled | TIU TEMPLATE GETTEXT |
| 3900 | Controlled | TIU UNLOCK RECORD |
| 3210 | Controlled | TIU UPDATE ADDITIONAL SIGNERS |
| 1799 | Controlled | TIU UPDATE RECORD |
| 4680 | Supported | VAFACTFU CONVERT DFN TO ICN |
| 4679 | Supported | VAFACTFU CONVERT ICN TO DFN |
| 1629 | Controlled | XWB GET VARIABLE VALUE |