

Dental Record Manager Plus (DRM Plus) Application

TECHNICAL MANUAL AND PACKAGE SECURITY GUIDE



Version 1.2

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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

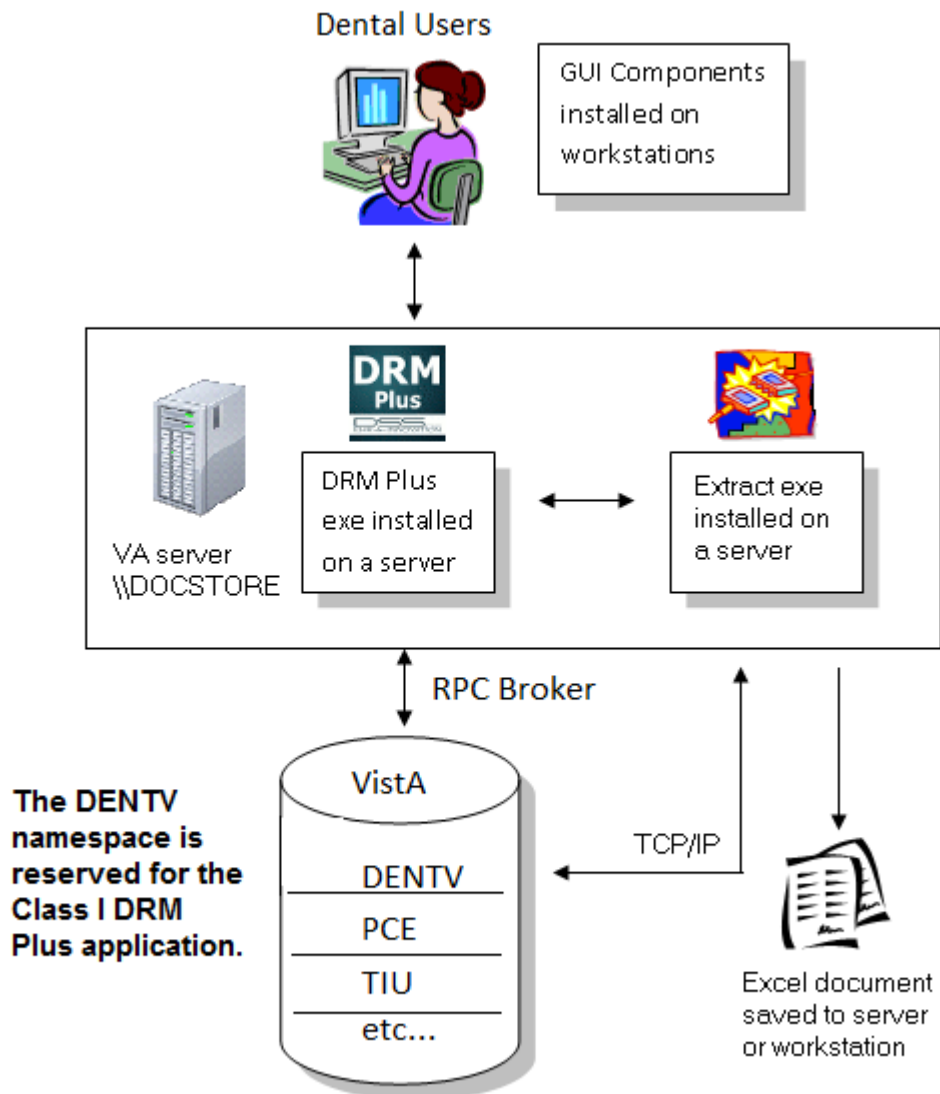


Figure 1 – Dental Data Flow Diagram and components

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):

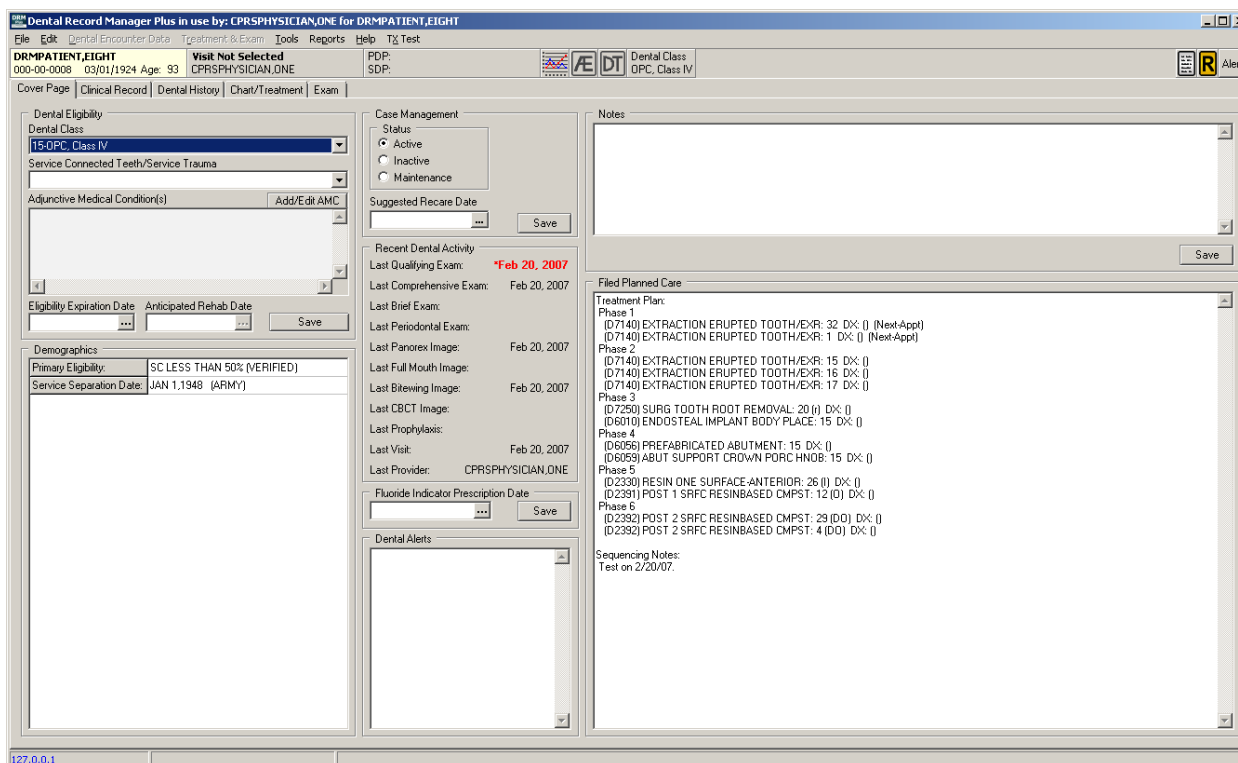


Fig. 1-1

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

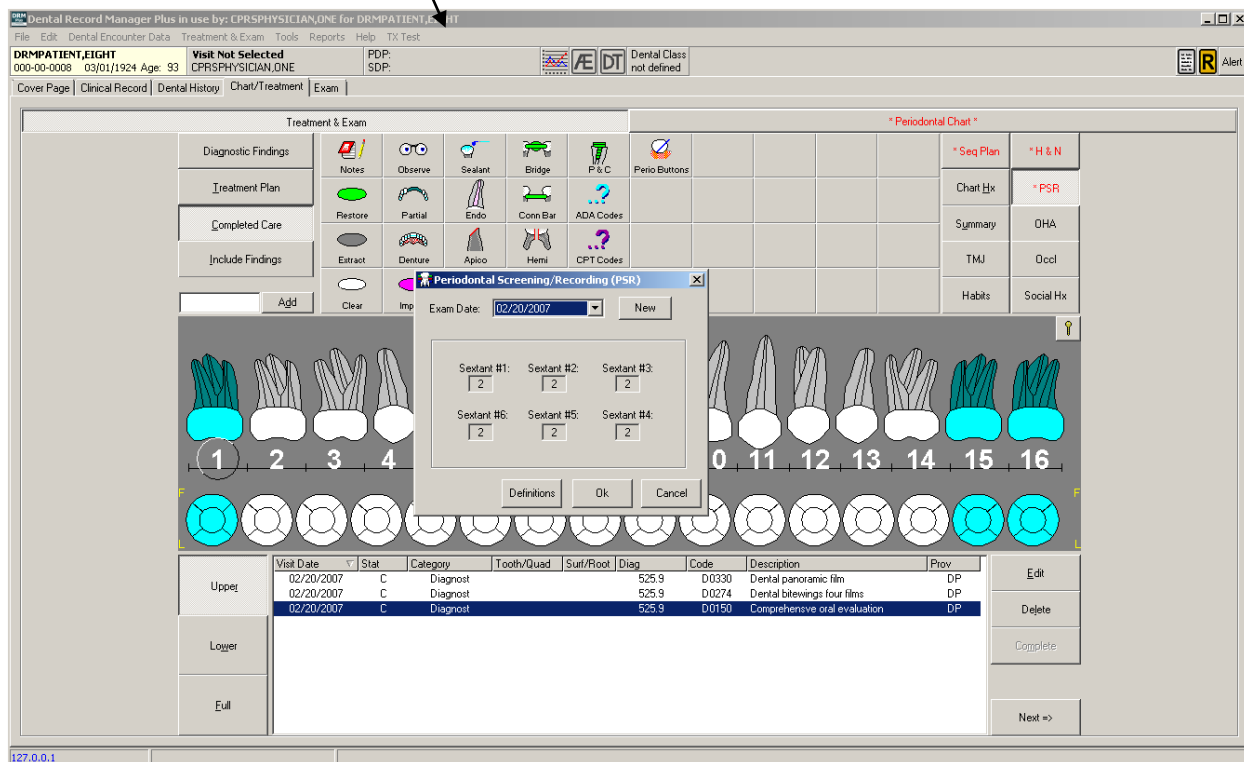


Fig. 1-2

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 (dentalmrmtx.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 dentalmrmtx.exe and DRMEXTSRV.exe files to the appropriate system folder – usually [\\servername\Docstore\](http://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.
DENTV DRM ANCILLARY	Allows access to admin options in DRM Plus
DENTV DRM BOILERPLATE PROMPT	Historical/no longer used
DENTV DRM CLEAN SLATE	Controls the display of the boilerplate prompt
	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 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 dentalmrmtx.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\dentalmrmtx.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.

Cache TRM:3000

Edit an Existing User

NAME: **DRMDENTIST, ATTENDING** Page 1 of 5

NAME... **DRMDENTIST, ATTENDING** INITIAL: **AD**
 TITLE: **DENTIST** NICK NAME: **DENTIST**
 SSN: **000000009** DOB: **SEP 1, 1961**
 DEGREE: MAIL CODE:
 DISUSER: TERMINATION DATE:
 Termination Reason:

PRIMARY MENU OPTION: **XUCORE**

Select SECONDARY MENU OPTIONS:

Want to edit ACCESS CODE (Y/N): FILE MANAGER ACCESS CODE: #

Want to edit VERIFY CODE (Y/N):

Select DIVISION: **VAMC ALBANY**
 SERVICE/SECTION: **DENTAL**

Exit Save Next Page Refresh

Enter a command or '^' followed by a caption to jump to a specific field.

COMMAND: Press <PF1>H for help Insert

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

```

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

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

---- Setting DENTV DRM ADMINISTRATOR for User:
DRMPROVIDER, ADMINDENTIST ----
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.

Cache TRM:3000

File Edit Help

Edit an Existing User

NAME: DRMDENTIST,ATTENDING

Page 3 of 5

PROHIBITED TIMES FOR SIGN-ON:

PHONE: OFFICE PHONE:
COMMERCIAL PHONE: FAX NUMBER:
VOICE PAGER: DIGITAL PAGER:
LANGUAGE:

Person Class	Effective	Expired
Dental Providers	MAR 8,2005	

Enter the dentist's Person Class here

Exit Save Next Page Refresh

Enter a command or '^' followed by a caption to jump to a specific field.

COMMAND: Press <PF1>H for help Insert

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 dentalmrmtx.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 dentalmrmtx.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 Vista 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 DENTVIxx 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
 DENTVTPE ;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

The following option is assigned as a secondary menu to dental users in order for the DRM Plus GUI to access the PIV RPC Broker calls:

NAME: DENTV DSS DRM GUI MENU TEXT: Dental DSS DRM GUI
TYPE: Broker (Client/Server)
DESCRIPTION: This broker option contains all the RPCs needed by the DSS dental gui application.
RPC: ORQOR LIST
RPC: ORQQAL DETAIL
RPC: ORQQAL LIST
RPC: ORQQLR DETAIL
RPC: ORQQPL DETAIL
RPC: ORQQPL LIST
RPC: ORQQPP LIST
RPC: ORQQPS LIST
RPC: ORQQPS DETAIL
RPC: ORQQPX IMMUN LIST
RPC: ORQQVI VITALS
RPC: ORWCS LIST OF CONSULT REPORTS
RPC: ORWCS REPORT TEXT
RPC: ORWMC PATIENT PROCEDURES
RPC: ORWPT LAST5
RPC: ORWPT LIST ALL
RPC: ORWPT PTINQ
RPC: ORWRA IMAGING EXAMS
RPC: ORWRA REPORT TEXT
RPC: ORWRP REPORT LISTS
RPC: ORWRP REPORT TEXT
RPC: ORWU CLINLOC
RPC: ORWU NEWPERS
RPC: ORWU USERINFO
RPC: ORWU VALIDSIG
RPC: TIU AUTHORIZATION
RPC: TIU CREATE ADDENDUM RECORD
RPC: TIU DELETE RECORD
RPC: TIU DOCUMENTS BY CONTEXT
RPC: TIU GET PN TITLES
RPC: TIU GET RECORD TEXT
RPC: TIU IS THIS A CONSULT?
RPC: TIU LOAD BOILERPLATE TEXT
RPC: TIU LOAD RECORD FOR EDIT
RPC: TIU LONG LIST OF TITLES
RPC: TIU PERSONAL TITLE LIST
RPC: TIU PRINT RECORD
RPC: TIU REQUIRES COSIGNATURE
RPC: TIU SIGN RECORD
RPC: TIU SUMMARIES
RPC: TIU UPDATE ADDITIONAL SIGNERS
RPC: TIU UPDATE RECORD
RPC: XWB GET VARIABLE VALUE
RPC: DG SENSITIVE RECORD ACCESS
RPC: DG SENSITIVE RECORD BULLETIN
RPC: DDR DELETE ENTRY
RPC: DDR FILER
RPC: DDR FIND1
RPC: DDR FINDER
RPC: DDR GET DD HELP

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-270 days (2 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

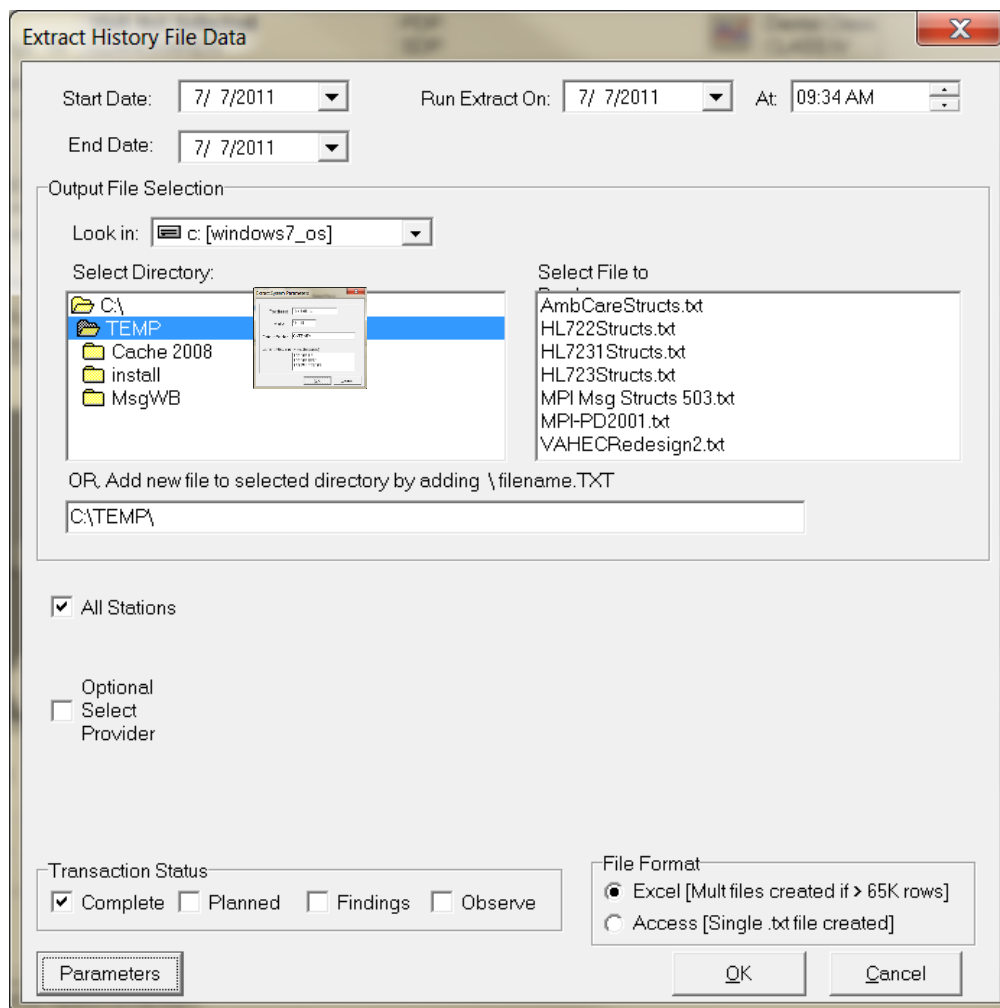
There are no callable routines in this package.

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:

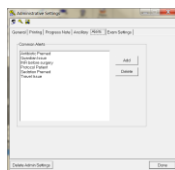
1. DENTV ADA CODE MAPPING

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:

capability for specific dental alerts that

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^XPAREDIT
2336	Supported	GETCLS^XPAREDIT
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	VAFCTFU CONVERT DFN TO ICN
4679	Supported	VAFCTFU CONVERT ICN TO DFN
1629	Controlled	XWB GET VARIABLE VALUE