



VITALS / MEASUREMENTS TECHNICAL MANUAL AND PACKAGE SECURITY GUIDE

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for Patch GMRV*5.0*3

Department of Veterans Affairs
Health Systems Design & Development
Provider Systems

Revision History

Date	Revision	Description	Author
October 2002	5.0	Initial Release	M. Gaddie
April 2006	5.0*3	Updated for Patch GMRV*5.0*3: <ul style="list-style-type: none">- Cover Page- Revision History- Implementation and Maintenance, p. 2-4- Routine Descriptions, p. 3-1 through 3-8- Exported Options, p. 5-1 through 5-34- External Relations, p. 8-47 through 8-96- Internal Relations, p. 9-1- Software Product Security, p. 12-1	F. Traxler

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1. Introduction

The Vitals/Measurements application is designed to store in the patient's electronic medical record all vital signs and various measurements associated with a patient's hospital stay or outpatient clinic visit. Data can be accessed by several *VISTA* (Veterans Health Information Systems and Technology Architecture) applications (e.g., CPRS, Health Summary) that interface with the Vitals/Measurements application.

Functionality

- Contains a GUI (Graphical User Interface) to make editing and viewing of data easier. Additional information on GUI software is contained at the end of this chapter.
- Supports documentation of a patient's vital signs (e.g., temperature, pulse, and respiration).
- Tracks a patient's height, weight, central venous pressure (CVP), circumference/girth and oxygen saturation via oximetry with supplemental oxygen information.
- Supports documentation of detailed or positional blood pressures for a patient (i.e., bilateral blood pressures taken in a sitting, standing and lying position).
- Associates qualifiers (alpha characters appended to the measurement's numeric value) to provide a more detailed description of the patient's vitals/measurements.
- Contains detailed help windows to assist users in associating appropriate qualifiers with the patient vitals/measurements.
- Permits users to add site-specific qualifiers.
- Prints temperature, height, and weight in both metric equivalents and U.S. customary units.
- Prints patient's cumulative measurements on the Vitals Signs Record and the Cumulative Vitals Report.
- Displays latest information on all of the patient's vitals/measurements in both metric equivalents and U.S. customary units (when appropriate) along with the date/time the information was obtained.

- Prints an expanded vitals graphic report which includes the patient's intake and output when present in the patient's database (refer to the Intake and Output application).
- Allows facilities to establish hospital-wide high and low values for each vital sign or measurement.
- Identifies abnormal patient values on vitals/measurements reports (those values outside the high and low range).
- Displays graphic reports on workstation monitors.
- Prints the following patient measurements in a linear graphic format when using a Kyocera F-800A or HP compatible (programmable) printer:
 - Temperature and pulse
 - Blood pressure
 - Weight
 - Pulse oximetry and respiration
 - Pain

If reports are printed on a dot matrix printer, plotted data values are not connected by a line.

- Supports the archiving and purging of patient measurements, that are no longer required on the production account, through FileMan.
- Passes patient vitals/measurements information (numeric values only) within a specific date range to the Health Summary application.
- Records a reason for the omission of a patient's vitals/measurements.

Information on GUI software

Intranet WWW Documentation

Documentation for this product (including user manual, technical manual and package security guide, release notes, and installation guide) is available on the intranet (World Wide Web) at the following address:

<http://vista.med.va.gov/clinicalspecialties/vitals/>

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 Vitals GUI screen will seem familiar to you. The Vitals 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):

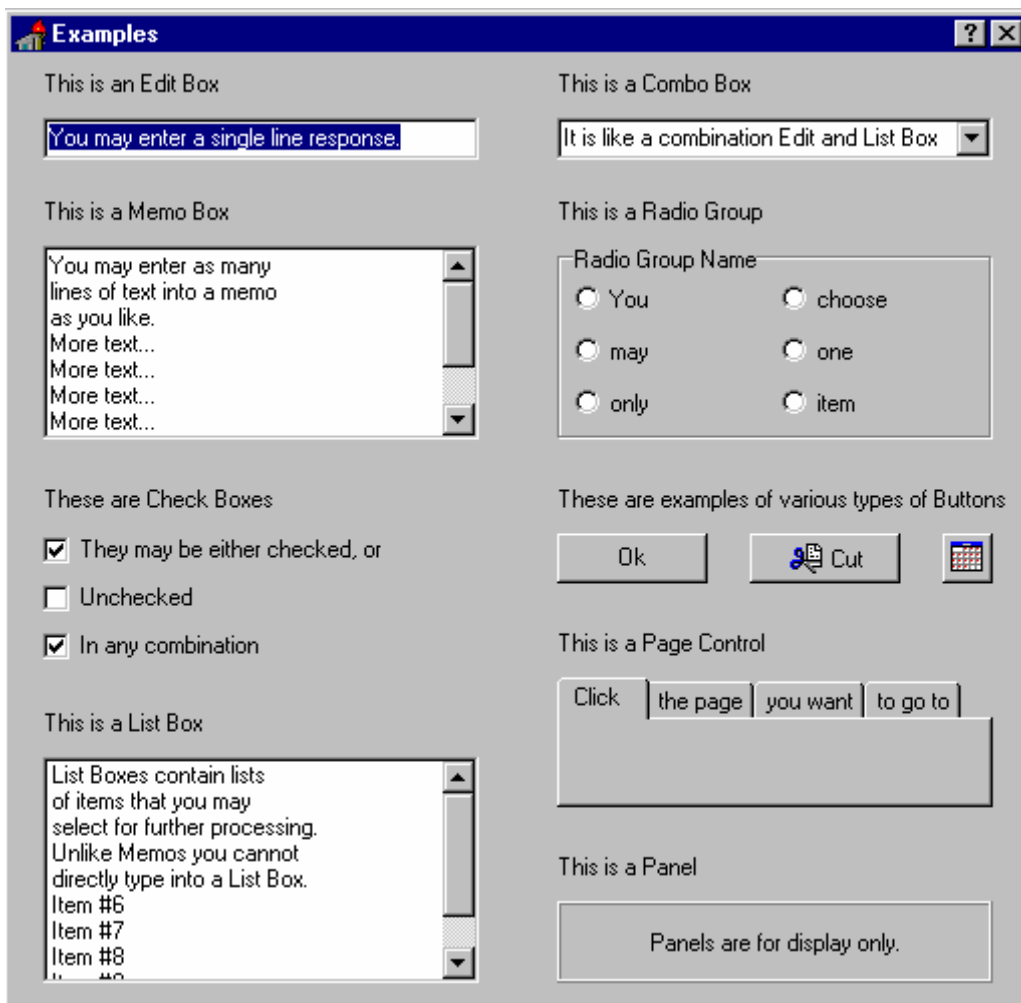


Fig. 1-1

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

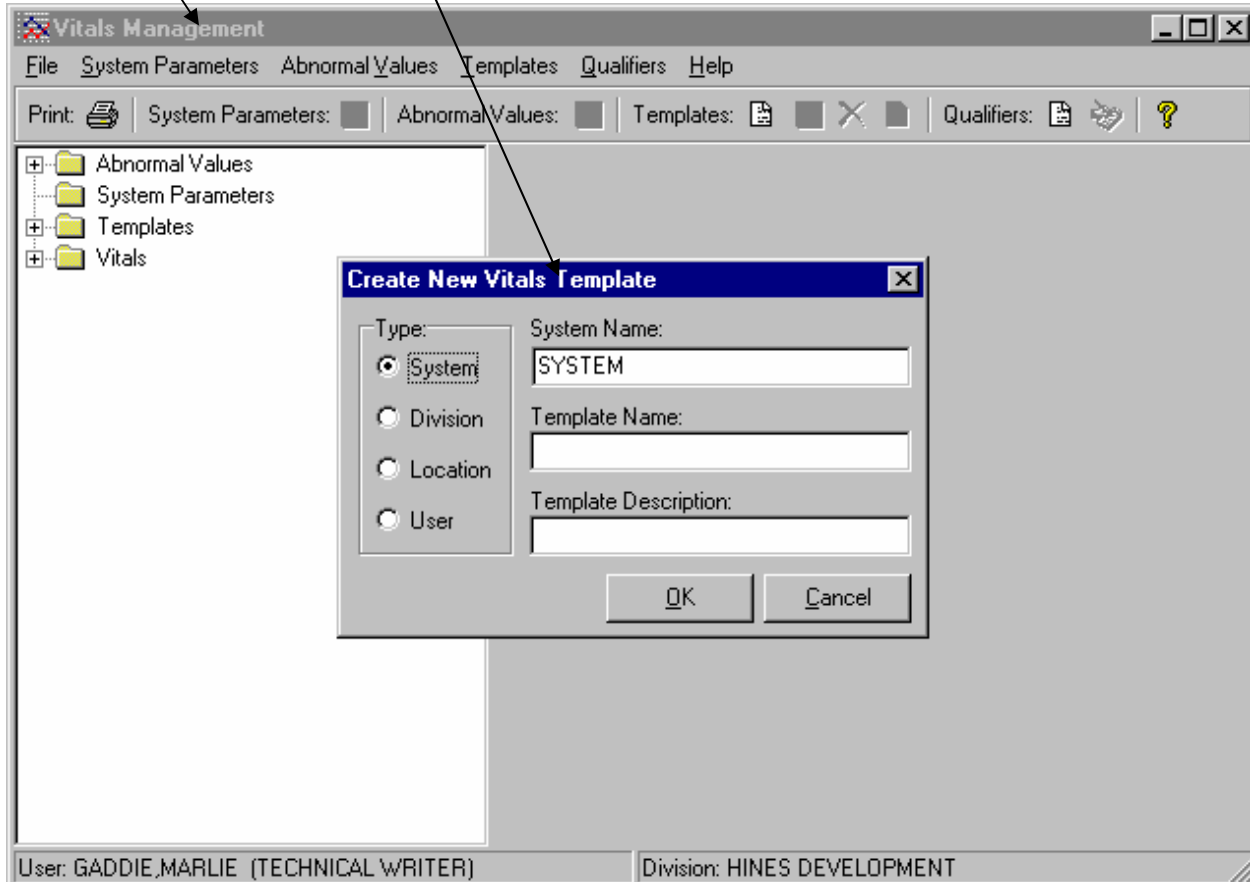


Fig. 1-2

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, and Internet Web documentation.

Hints

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

Context-Sensitive Help

Use the “F1” key at any time to obtain help on the current screen.

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.

2. Implementation and Maintenance

Description

This chapter provides guidelines for implementing the Vitals/Measurements application. It is important to complete all of the steps contained in this chapter before assigning menu options to clinical staff.

Virgin Installation of Software

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

1. Setting up the software environment.

Information Resource Management Services (IRMS) staff should install the 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 Vitals/Measurements 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 RPC Broker V. 1.1 or greater,
- e. PIMS V. 5.3 or greater,
- f. Intake and Output V. 4.0,
- g. Health Summary V. 2.7 or greater,
- h. Nursing V. 4.0 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.

2. Name spacing and file listing.

Vitals/Measurements is found in the GMV namespace. All routines, templates and options begin with GMV. File numbers are in the range of 120.5 to 120.57 and are stored in the ^GMR and ^GMRD globals.

3. Editing site configurable files.

Site configurable files can be edited through the Vitals Manager module.

4. Queuing TaskMan jobs.

No queued TaskMan jobs are associated with this application.

5. Accessing modules.

The Vitals application, i.e., the Vitals and Vitals Manager modules are accessed separately through the GUI executable icons on the user's desktop. The Vitals module is assigned to the clinical staff so they can use the Vitals application, and the Vitals Manager module is assigned to the Clinical Application Coordinator, package coordinator, and Information Resource Management Service (IRMS) staff so they can use the Vitals Manager application to manage the Vitals templates, abnormal values, categories, and qualifiers.

6. Assigning modules.

The Vitals Manager module should be assigned to Clinical Application Coordinator, package coordinator, and Information Resource Management Service (IRMS) staff.
The Vitals module should be assigned to clinical staff.

7. Security keys.

There is one security key in this application, it is GMV MANAGER. This new key allows a user to view/create/edit all other user's templates in the Vitals Manager module, without this key the user can only view/create/edit his/her own user templates. This key also allows a user to use (run) other user's templates in the Vitals application. This key should be assigned to the package coordinator.

8. Printer issues.

Users may print reports on either Client (Windows) printers or *VISTA* (device file) printers. Users may print graphic reports on a dot matrix printer, but plotted data is not connected by lines. Linear graphic reports can be printed using the Kyocera F-800A laser printers; HP LaserJet III, LaserJet 4, LaserJet 5; and HP compatible printers.

9. 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..

Non-Virgin Installation of Software

Follow steps 1 through 9 above when installing the software in an environment where a previous version of the application has been installed.

Implementation Considerations

Some sites prefer to delay implementation of the software until they have a point of care data entry system, but this software can be implemented without a point of care system. Vital sign entry can be accomplished by ancillary service personnel, (e.g., PIMS, Dietetics, Pharmacy). Interested users of this software are encouraged to form a committee to work cooperatively on the implementation and training of the package. Setting up test wards is a good way to begin a cooperative implementation effort. The Vitals/Measurements module is appropriate for all personnel who obtain and record patient vitals/measurements. Conceivably this module could be used by nursing, dietetics, medicine, and other disciplines as appropriate.

You may want to involve the Clinical Executive Committee in the review of the Vital Site Parameter file. This facilitates station wide agreement on what the abnormal values will be. It also encourages physician use of the software.

Resource Requirements

The minimal hardware requirements for the software are two data input devices (usually PC workstations running Windows 9x 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.

Server:

<u>Globals</u>	<u>Type of Data</u>	<u>Size</u>
DDs	Data Dictionaries	40 k
GMR	Patient data for the Text Generator, Vitals/Measurements, Intake and Output, Adverse Reaction Tracking and Consult/Request Tracking Modules	25-75 k/ patient
GMRD	Static data for the Text Generator, Vitals/Measurements and Intake and Output Modules	10 k depending on the global efficiency

Client:

¹ <u>Type of Data</u>	<u>Size</u>
Application (user)	1800 k
Application (manager)	1200 k
GMV_VitalsViewEnter.dll	1500 k
Help Files (user)	50 k
Help Files (manager)	25 k
Help Files (dll)	36 k

¹ April 2006 Patch GMRV*5.0*3 Added resource requirement for the DLL help file; updated file sizes.

3. ¹Routine Descriptions

GMV12PST ;HIOFO/FT-POST-INSTALLATION FOR GMRV*5*12 ;6/16/05 14:16
;;5.0;GEN. MED. REC. - VITALS;**12**;Oct 31, 2002

GMV1PST ;HOIFO/FT-POST INSTALLATION FOR GMRV*5*1 ;10/8/03 14:01
;;5.0;GEN. MED. REC. - VITALS;**1**;Oct 31, 2002

GMV2PST ;HIOFO/FT-Create Indexes for HDR ;10/7/04 17:06
;;5.0;GEN. MED. REC. - VITALS;**2**;Oct 31, 2002

GMV3PST ;HOIFO/FT-POST INSTALLATION FOR GMRV*5*3 ;5/17/05 08:56
;;5.0;GEN. MED. REC. - VITALS;**3**;Oct 31, 2002

GMV5ENV ;HIOFO/FT-GMRV*5*5 ENVIRONMENT CHECK ROUTINE ;11/23/04 11:21
;;5.0;GEN. MED. REC. - VITALS;**5**;Oct 31, 2002

GMV6PST ;HIOFO/FT-Create Clinical Reminders Index ;10/14/04 11:35
;;5.0;GEN. MED. REC. - VITALS;**6**;Oct 31, 2002

GMV8ENV ;;HIOFO/FT-GMRV*5*8 ENVIRONMENT ROUTINE ;3/24/05 16:26
;;5.0;GEN. MED. REC. - VITALS;**8**;Oct 31, 2002

GMV8PST ;HIOFO/FT-POST-INSTALLATION FOR GMRV*5*8 ;5/3/05 11:48
;;5.0;GEN. MED. REC. - VITALS;**8**;Oct 31, 2002

GMVBMI ;HIOFO/YH,FT-EXTRACT HEIGHT TO CALCULATE BMI FOR WEIGHT; 3/24/97
;11/8/01 14:38
;;5.0;GEN. MED. REC. - VITALS; **3**;Oct 31, 2002

GMVBP0 ;HIOFO/YH,FT-KYOCERA B/P GRAPH - STORE DATA IN ^TMP(\$J) ;11/6/01 14:34
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVBP1 ;HIOFO/YH,FT-CALCULATE KYOCERA B/P GRAPH DATA ;9/30/02 14:55
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVBP2 ;HIOFO/YH,FT-DEFINE KYOCERA BP GRAPH MACRO ;11/6/01 15:45
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVBP3 ;HIOFO/YH,FT-DEFINE KYOCERA B/P GRAPH MACRO (CONT.) ;11/6/01 14:35
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVBP4 ;HIOFO/YH,FT-CALL KYOCERA B/P GRAPH MACRO ;11/6/01 14:36
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVBP5 ;HIOFO/YH,FT-CALCULATE KYOCERA B/P GRAPH DATA (CONT.) ;11/6/01 14:36
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVCAQU ;HOIFO/YH,FT-DISPLAY CATEGORY/QUALIFIER/SYNONYM TABLE FOR VITAL
TYPE ;10/25/02 10:04
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVCHAR ;HIOFO/YH,FT-EXTRACT CHARACTERISTIC DATA ;11/8/01 14:33
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVCLIN ;HOIFO/YH,FT-RETURNS A LIST OF PATIENTS WITH CLINIC APPOINTMENTS
WITH IN A GIVEN PERIOD ;6/24/03 10:32
;;5.0;GEN. MED. REC. - VITALS;**1**;Oct 31, 2002

GMVDCCHK ;HOIFO/DAD,FT-VITALS COMPONENT: CHECK DATA VALUE ;9/29/00 09:15
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVDCCNV ;HOIFO/DAD,FT-VITALS COMPONENT: CONVERT UNITS ;9/29/00 09:15
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVDCEXT ;HOIFO/DAD,FT-VITALS COMPONENT: EXTRACT PATIENT DATA ;11/4/03
15:45
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

¹ April 2006 Patch GMRV*5.0*3 Updated entire list of routines.

GMVDCHLP ;HOIFO/DAD,FT-VITALS COMPONENT: HELP TEXT ;9/29/00 09:17
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVDCRPC ;HOIFO/DAD-VITALS COMPONENT: RPCs ;8/24/99 08:28
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVDCSAV ;HOIFO/DAD-VITALS COMPONENT: SAVE DATA ; 8/5/05 7:01am
 ;;5.0;GEN. MED. REC. - VITALS;**9,3**;; Oct 31, 2002

GMVDCUTL ;HOIFO/DAD,FT-VITALS COMPONENT: UTILITIES ;9/29/00 09:18
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVDCVAL ;HOIFO/DAD,FT-VITALS COMPONENT: VALIDATE DATA ;9/29/00 09:18
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVDCVAM ;HOIFO/DAD,FT-VITALS COMPONENT: VALIDATE DATA (CONT.) ;9/26/00 15:31
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVDS0 ;HIRMFO/YH,FT-DISPLAY LATEST VITALS/MEASUREMENTS ;7/3/02 00:42
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVDS1 ;HOIFO/YH,FT-CURRENT VITALS BY PATIENT OR LOCATION ;10/25/02 10:20
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVDS2 ;HOIFO/RM,YH,FT-VITAL SIGNS DISPLAY ;12/27/01 10:55
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVER0 ;HOIFO/FT-VITALS ENTERED IN ERROR FOR A PATIENT ;10/25/02 10:26
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVER1 ;HOIFO/RM,YH,FT-ENTERED IN ERROR FOR A PATIENT & DATE RANGE ;12/12/01 12:36
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVFSYN ;HOIFO/RM,YH,FT-X REFERENCE FOR VITAL TYPE, CATEGORY AND SYNONYM ;3/8/05 13:38
 ;;5.0;GEN. MED. REC. - VITALS;**8**;;Oct 31, 2002

GMVFUT0 ;HOIFO/RM,FT-FILE UTILITIES FOR 120.5 FILE ;5/23/01 15:42
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVFUT2 ;HOIFO/RM,FT-FILE UTILITIES FOR 120.52 FILE ;5/24/01 14:34
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVFUT3 ;HOIFO/RM,FT-FILE UTILITIES FOR 120.53 FILE ;5/23/01 15:43
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVGETD ;HOIFO/YH,FT-EXTRACTS WARD/ROOM-BED/PT AND PT VITALS ;5/25/05 16:32
 ;;5.0;GEN. MED. REC. - VITALS;**3**;;Oct 31, 2002

GMVGETD1 ;HOIFO/YH-EXTRACT VITALS/MEASUREMENT RECORDS FOR A GIVEN DATE ;8/31/99 15:03
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVGETD2 ;HOIFO/YH-EXTRACT VITALS/MEASUREMENT RECORDS FOR A GIVEN DATE (CONT.) ;12/9/02 14:03
 ;;5.0;GEN. MED. REC. - VITALS;**1**;;Oct 31, 2002

GMVGETQ ;HOIFO/YH,FT-UTILITIES TO OBTAIN DATE/TIME, HOSPITAL, DUZ, VITAL CATEGORY AND EDIT V/M ;9/6/02 09:35
 ;;5.0;GEN. MED. REC. - VITALS;**3**;;Oct 31, 2002

GMVGGR1 ;HOIFO/YH,FT-VITAL SIGNS RECORD SF 511 ;6/12/02 11:58
 ;;5.0;GEN. MED. REC. - VITALS;**3**;;Oct 31, 2002

GMVGGR2 ;HOIFO/YH,FT-SET ^TMP(\$J) GLOBAL ;9/30/02 14:58
 ;;5.0;GEN. MED. REC. - VITALS;**3**;;Oct 31, 2002

GMVGR0 ;HIOFO/MH,YH,FT-VITALS GRAPH (PART 1) ;12/26/01 15:25
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVGR1 ;HIOFO/YH,FT-SET ^TMP(\$J) GLOBAL ;11/29/02 13:34
 ;;5.0;GEN. MED. REC. - VITALS;***1**;Oct 31, 2002
 GMVGR2 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA DEFINE MACRO (PART 1) ;11/8/01
 14:54
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVGR3 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA DEFINE MACRO (PART 2) ;11/6/01
 16:09
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVGR4 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA PRINT COMMANDS (PART 1) ;11/6/01
 16:10
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVGR5 ;HIOFO/RM,YH,FT-TMP TO EXTRACT DATA FROM IO PACKAGE ;11/6/01 16:21
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVGR6 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA PRINT COMMANDS (PART 2) ;11/6/01
 16:13
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVGR7 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA DEFINE MACRO FOR PULSE
 OX./CG/CVP ;11/6/01 16:14
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHB0 ;HIOFO/YH,FT-HP LASER B/P GRAPH - DATA ARRAY ;11/6/01 15:36
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHB1 ;HIOFO/YH,FT-HP LASER B/P GRAPH - FORM ;11/6/01 15:36
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHB2 ;HIOFO/YH,FT-HP LASER B/P GRAPH - BOX DATA ;11/6/01 15:37
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHB3 ;HIOFO/YH,FT-HP LASER B/P GRAPH - ID ;11/8/02 13:35
 ;;5.0;GEN. MED. REC. - VITALS;***1**;Oct 31, 2002
 GMVHB4 ;HIOFO/YH,FT-HP LASER B/P GRAPH - ^TMP DATA ;11/6/01 15:37
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHDR ;HIOFO/FT-HEALTH DATA REPOSITORY API ;10/21/04 13:03
 ;;5.0;GEN. MED. REC. - VITALS;***2**;Oct 31, 2002
 GMVHG0 ;HIOFO/YH,FT-HP LASER SF 511 GRAPH - DATA ARRAY ;11/6/01 15:07
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHG1 ;HIOFO/YH,FT-HP LASER SF511 GRAPH - FORM ;11/6/01 15:09
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHG2 ;HIOFO/YH,FT-HP LASER SF 511 GRAPH - BOX DATA ;12/4/01 22:27
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHG3 ;HIOFO/YH,FT-HP LASER SF 511 GRAPH - ID ;11/6/01 15:09
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHG4 ;HIOFO/YH,FT-HP LASER SF 511 GRAPH - ^TMP DATA ;11/6/01 15:08
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHPN0 ;HIOFO/YH,FT-HP LASER PAIN CHART - DATA ARRAY ;11/6/01 15:14
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHPN1 ;HIOFO/YH,FT-HP LASER PAIN CHART - FORM ;11/6/01 15:16
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHPN2 ;HIOFO/YH,FT-HP LASER PAIN CHART - ^TMP DATA ;11/8/01 14:56
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
 GMVHPO0 ;HIOFO/YH,FT-HP LASER PULSE OXIMETRY/RESP. GRAPH - DATA ARRAY
 ;11/6/01 15:18
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHPO1 ;HIOFO/YH,FT-HP LASER PULSE OXIMETRY/RESP. GRAPH - FORM ;11/6/01 15:20
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHPO2 ;HIOFO/YH,FT-HP LASER PULSE OXIMETRY/RESP. GRAPH - BOX DATA ;11/6/01 15:20
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHPO3 ;HIOFO/YH,FT-HP LASER PULSE OXIMETRY/RESP. GRAPH - ^TMP DATA ;11/6/01 15:19
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHS ;HIOFO/FT-RETURN PATIENT DATA UTILITY ;6/10/05 11:32
 ;;5.0;GEN. MED. REC. - VITALS;**3**;;Oct 31, 2002

GMVHS1 ;HIOFO/FT-RETURN PATIENT DATA UTILITY (cont.) ;6/30/05 16:56
 ;;5.0;GEN. MED. REC. - VITALS;**3**;;Oct 31, 2002

GMVHW0 ;HIOFO/YH,FT-HP LASER WEIGHT CHART - DATA ARRAY ;12/6/01 11:35
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHW1 ;HIOFO/YH,FT-HP LASER WEIGHT CHART - FORM AND GRAPH ;11/6/01 15:23
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHW2 ;HIOFO/YH,FT-HP LASER WEIGHT CHART - BOX DATA ;11/6/01 15:23
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVKPN0 ;HCIOFO/YH,FT-KYOCERA PAIN CHART - DATA ARRAY ;11/6/01 15:03
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVKPN1 ;HCIOFO/YH,FT-KYOCERA PAIN CHART MACRO-1 ;11/6/01 15:04
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVKPN2 ;HCIOFO/YH,FT-KYOCERA KYOCERA PAIN CHART PRINT COMMANDS (PART 1) ;11/6/01 15:05
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVKPO0 ;HIOFO/YH,FT-KYOCERA PULSE OXIMETRY/RESP. GRAPH - DATA ARRAY ;11/6/01 14:55
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVKPO1 ;HIOFO/YH,FT-KYOCERA PULSE OXIMETRY/RESP. GRAPH - GRAPH DATA ;11/6/01 14:56
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVKPO2 ;HIOFO/YH,FT-KYOCERA PULSE OXIMETRY/RESP. MACRO-1 ;11/6/01 15:00
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVKPO3 ;HIOFO/YH,FT-KYOCERA PULSE OXIMETRY/RESP. GRAPH - MACRO 2 ;11/6/01 15:00
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVKPO4 ;HIOFO/YH,FT-GRAPH KYOCERA PRINT COMMANDS (PART 1) ;11/6/01 15:01
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLAT0 ;HOIFO/YH,FT-DISPLAY LATEST VITALS/MEASUREMENTS FOR A PATIENT ;5/26/05 14:10
 ;;5.0;GEN. MED. REC. - VITALS;**1,3**;;Oct 31, 2002

GMVLATS ;HOIFO/YH,FT-QUEUES LATEST VITALS/MEASUREMENTS ;12/27/01 11:08
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLBP0 ;HIOFO/YH,FT-PATIENT BLOOD PRESSURE LINE PRINTER GRAPH - 1 ;11/6/01 15:49
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLBP1 ;HIOFO/YH,FT-SYSTOLIC/DIASTOLIC GRAPH ;12/17/01 09:30
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLBP2 ;HIOFO/YH,FT-SET GRAPH LOWER BOX DATA ;9/30/02 15:03
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLGQU ;HIOFO/YH,FT-UTILITY FOR LEGEND, PO2 AND QUALIFIER ;11/8/01 14:31
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLPO0 ;HIOFO/YH,FT-DOT MATRIX OXIMETRY/RESP. GRAPH - DATA ARRAY ;11/6/01 15:43
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLPO1 ;HIOFO/YH,FT-DOT MATRIX PULSE OXIMETRY AND RESPIRATION GRAPH ;11/6/01 15:44
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLPO2 ;HIOFO/YH,FT-DOT MATRIX HIOFO/YH-PULSE OX. AND RESPIRATION DATA ;9/30/02 15:16
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLWT0 ;HIOFO/YH,FT-DOT MATRIX WEIGHT GRAPH - DATA ARRAY ;6/17/02 15:58
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLWT1 ;HIOFO/YH,FT-DOT MATRIX PATIENT WEIGHT GRAPH - 2 ;11/6/01 15:31
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLWT2 ;HIOFO/YH,FT-DOT MATRIX WEIGHT GRAPH - 3 ;11/6/01 15:32
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVLWT3 ;HIOFO/YH,FT-DOT MATRIX PATIENT WEIGHT GRAPH - 4 ;9/30/02 15:18
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVPAR ;HOIFO/DP - XPARameter RPC ; 31-MAY-2002 10:06:18
 ;;5.0;GEN. MED. REC. - VITALS;***;Oct 31, 2002

GMVPCE3 ;HIOFO/RM,FT-V/M Data Validation for AICS ;2/5/02 15:19
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVPXRM ;HIOFO/FT-API to return FILE 120.5 data ;10/14/04 11:46
 ;;5.0;GEN. MED. REC. - VITALS;***;Oct 31, 2002

GMVQUAL ;HOIFO/YH,FT-VITAL QUALIFIERS ;2/17/05 14:39
 ;;5.0;GEN. MED. REC. - VITALS;***;Oct 31, 2002

GMVRPCHL ;HIOFO/FT-RPC FOR HOSPITAL LOCATION SELECTION ;12/7/05 10:32
 ;;5.0;GEN. MED. REC. - VITALS;***;Oct 31, 2002

GMVRPCM ;HOIFO/DP - RPC for Vitals Manager ;07/25/05 9:10am
 ;;5.0;GEN. MED. REC. - VITALS;***1,8,13,3***;Oct 31, 2002

GMVRPCP ;HOIFO/DP-RPC for GMV_PtSelect.pas ; 7/8/05 8:05am
 ;;5.0;GEN. MED. REC. - VITALS;***1,3***;Oct 31, 2002

GMVRPCU ;HOIFO/DP - RPC for Vitals User ;3/18/04 12:49
 ;;5.0;GEN. MED. REC. - VITALS;***;Oct 31, 2002

GMVSAS0 ;HIOFO/RM,YH,FT-CALCULATE ABNORMAL V/S ;11/8/01 14:36
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVSC0 ;HOIFO/MD,YH,FT-CUMULATIVE VITALS/MEASUREMENTS FOR PATIENT OVER GIVEN DATE RANGE ;10/25/02 10:29
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVSC1 ;HOIFO/YH,FT-CUMULATIVE V/M - CONTINUED ;12/18/01 10:53
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVSC2 ;HIRMFO/YH,FT-CUMULATIVE V/M - CONTINUED ;12/18/01 10:54
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVSR0 ;HOIFO/RM,YH,FT-VITAL SIGNS RECORD SF 511 ;10/25/02 10:39
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVSR1 ;HIOFO/RM,YH-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 1 ;11/6/01 16:00
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVSR2 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 2 ;11/6/01 16:01
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVUID ;HIOFO/FT-VUID-RELATED UTILITIES ;5/3/05 11:48
 ;;5.0;GEN. MED. REC. - VITALS;**8**;Oct 31, 2002

GMVUT0 ;HIOFO/RM,YH,FT-INPUT TRANSFORMS FOR VITAL TYPES ;2/5/02 14:54
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVUT2 ;HOIFO/YH,RM,FT-ENTRY TO GATHER PATIENT VITAL/MEASUREMENT DATA
 ;12/27/01 10:45
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVUT3 ;HIOFO/YH,FT-VITAL MEASUREMENT SITE/QUALIFIER SELECTION ;2/5/02 15:04
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVUTL ;HOIFO/RM,MD,FT-CALLABLE ENTRY POINTS FOR PROGRAMMER UTILITIES
 ;12/27/01 10:46
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVUTL1 ;HOIFO/YH,FT-EXTRACT CLINIC LIST AND MARK VITALS ENTERED IN ERROR
 ;6/11/03 09:25
 ;;5.0;GEN. MED. REC. - VITALS;**1,3**;Oct 31, 2002

GMVUTL2 ;HOIFO/YH,FT-BP HIGH/LOW LIMITS AND DEFAULT QUALIFIER; 6/7/98 ;10/1/02
 14:14
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVUTL3 ;HOIFO/YH,FT-RPCBROKER UTILITY ROUTINE TO EXTRACT NURSING
 UNIT/ROOM-BED - 3 ;10/24/03 14:20
 ;;5.0;GEN. MED. REC. - VITALS;**3**;Oct 31, 2002

GMVUTL7 ;HIOFO/DS-RPC API TO RETURN ALL VITALS/CATEGORIES/QUALIFIERS
 ;7/17/02 14:52
 ;;5.0;GEN. MED. REC. - VITALS;**3**;Oct 31, 2002

GMVUTL8 ;HIOFO/DS-RPC API TO RETURN ALL VITALS/CATEGORIES/QUALIFIERS ;3/31/05
 13:34
 ;;5.0;GEN. MED. REC. - VITALS;**1,3**;Oct 31, 2002

GMVVDEF1 ;BPOIFO/JG,HIOFO/FT - BUILD HL7 ORU^R01 MESSAGE FOR VITALS ; 20 Sep
 2005 4:36 PM
 ;;5.0;GEN. MED. REC. - VITALS;**5,8,12**;Oct 31, 2002

GMVVDEFK ;BPOIFO/JG,HIOFO/FT - KIDS POST INSTALL FOR VDEF PATCH ; 04 Oct 2004
 3:16 PM
 ;;5.0;GEN. MED. REC. - VITALS;**5**;Oct 31, 2002

GMVVS1 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 1 ;11/6/01 14:43
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVVS2 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 2 ;9/30/02 15:25
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVVS3 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 3 ;11/6/01 14:42
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVVS4 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-GRAPH ;11/6/01 14:44
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVWT0 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - DATA ARRAY ;12/17/01 09:28
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVWT1 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - GRAPH DATA ;9/30/02 15:27
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVWT2 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - MACRO ;11/6/01 14:49
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVWT3 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - MACRO (CONT.) ;11/6/01 14:50
 ;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVWT4 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - MACRO CALL ;11/6/01 14:50

;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVXENV ;HOIFO/YH-ENVIRONMENT CHECK FOR VITALS ;2/6/02 10:57
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVXPST ;HOIFO/FT-POST INSTALLATION FOR VITALS ;10/28/02 12:33
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

4. File List and Related Information

File Descriptions

GMRV VITAL MEASUREMENT 120.5

This file contains vital sign information and other measurement data for a patient.

GMRV VITAL TYPE 120.51

This file contains a list of vital sign types, and various parameters which mold the data entry.

GMRV VITAL QUALIFIER 120.52

This file contains a list of qualifiers for vitals/measurements.

GMRV VITAL CATEGORY 120.53

This file contains a list of qualities or characteristics that can be affixed to a vital measurement.

GMRV VITALS PARAMETERS 120.57

This file contains the various site configurable parameters for the Vitals/Measurements application.

Package Default Definition

FILE #	NAME	UP	SEND	DATA	SITE	RSLV	USER
		DATE	SEC.	COMES			OVER
		DD	CODE	W/FILE	DATA	PTS	RIDE
120.5	GMRV VITAL MEASUREMENT	YES	YES	NO			
120.51	GMRV VITAL TYPE	YES	YES	YES	ADD	NO	NO
120.52	GMRV VITAL QUALIFIER	YES	YES	YES	ADD	NO	YES
120.53	GMRV VITAL CATEGORY	YES	YES	YES	ADD	NO	NO
120.57	GMRV VITALS PARAMETERS	YES	YES	YES	ADD	NO	YES

5. Exported Options

Delphi Components

Vitals/Measurements uses RPC Broker and VA FileMan Delphi Components in the display and navigation of screens. Vitals utilizes only the standard components as supplied with Delphi 5. Below is a list of the Delphi components this application currently uses along with a short description.

TeeChart	Displays charts and graphs. It is used in Vitals/Measurements to graphically plot various measurements versus time.
ResizerPanel	Resizes its client components when the form is resized or the screen resolution is changed. This takes care of proper size and position of components with regard to the font size used in Windows. It is there so users can resize the application Windows to meet their needs.
VersionInfoResource	Retrieves VERSIONINFO data from the executable. It is used in the about boxes in Vitals/Measurements to display version information.
RPCBroker	Used for all non-FTP communication with the server.
FMDC	Used for saving, deleting, validating, and retrieving data in FileMan data dictionaries.
DateTime	Allows the user to visually select a date and time. It is provided as an option on all date/time fields.
PatientSelectionFrame	Allows user to select a patient, by unit, team, ward, clinic or name. The frame is on a resize panel.
ReportFrame	Allows users to view patients vitals data and create a configurable graph of data.

Remote Procedure Calls (RPC)

NAME: GMV ADD VM	TAG: EN1
ROUTINE: GMVDCSAV	RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: SUBSCRIPTION	INACTIVE: ACTIVE
WORD WRAP ON: TRUE	
DESCRIPTION:	
This remote procedure call is used to enter a new Vital/Measurement record in the GMRV Vital Measurement file (#120.5).	

Exported Options

¹This remote procedure call is documented in Integration Agreement 3996.

INPUT PARAMETER: GMRVDATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 255 REQUIRED: YES
SEQUENCE NUMBER: 1

DESCRIPTION:
This variable contains the data needed to create a Vital/Measurement record in the GMRV Vital Measurement (#120.5) file. The values are parsed out of the GMRVDATA variable and filed.

GMRVDATA has the following data:
piece1^piece2^piece3^piece4^piece5

where:

- piece1 = date/time in FileMan internal format
- piece2 = patient number from FILE 2 (i.e., DFN)
- piece3 = vital type, a semi-colon, the reading, a semi-colon, and oxygen flow rate and percentage values [optional] (e.g., 21;99;1 l/min 90%)
- piece4 = hospital location (FILE 44) pointer value
- piece5 = user number from FILE 200 (i.e., DUZ), an asterisk, and the qualifier (File 120.52) internal entry numbers separated by colons (e.g., 547*50:65)

RETURN PARAMETER DESCRIPTION:
RESULT does not return a value.

The data is filed in the GMRV VITAL MEASUREMENT (#120.5) file.

Example:

```
> S GMRVDATA="3051011.1635^134^1;120/80;^67^87*2:38:50:75"  
> D EN1^GMVDCSAV(.RESULT,GMRVDATA)
```

NAME: **GMV ALLERGY** TAG: ALLERGY
ROUTINE: GMVUTL3 RETURN VALUE TYPE: ARRAY
AVAILABILITY: SUBSCRIPTION INACTIVE: ACTIVE
WORD WRAP ON: TRUE

DESCRIPTION:
This remote procedure call retrieves the patient's allergy information.

This remote procedure call is documented in Integration Agreement 4350.

INPUT PARAMETER: DFN PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 30 REQUIRED: YES
SEQUENCE NUMBER: 1

DESCRIPTION:
DFN is a pointer to the PATIENT file (#2).

RETURN PARAMETER DESCRIPTION:
Returns the patient allergy information in the array specified.

The result array returns:
RESULT(n)=This patient has the following allergy(ies):
 (n+1)=piece1

where piece1 = the allergy name
 n = sequential number starting at 1.

If there is no data, then the following is returned:
RESULT(1)=No Allergy Assessment

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

Example:

```
> S DFN=134
> D ALLERGY^GMVUTL3(.RESULT,DFN) ZW RESULT
> RESULT(1)="This patient has the following allergy(ies): "
> RESULT(2)="PENICILLIN"
```

```
NAME: GMV CHECK DEVICE TAG: CHKDEV
ROUTINE: GMVUTL2 RETURN VALUE TYPE: ARRAY
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
WORD WRAP ON: TRUE
1DESCRIPTION:
This RPC calls a KERNEL utility to return a list of printers the user may
select to print output. Returns a maximum of twenty entries.
INPUT PARAMETER: GMVIEN PARAMETER TYPE: LITERAL
REQUIRED: YES SEQUENCE NUMBER: 1
DESCRIPTION:
The value to begin the search in the Device file (#3.5). Can be null.
INPUT PARAMETER: GMVDIR PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 1 REQUIRED: YES
SEQUENCE NUMBER: 2
DESCRIPTION:
Direction of the search (1 = forward, -1 = backwards).
If DIR is null, then set to 1.
INPUT PARAMETER: GMVRMAR PARAMETER TYPE: LITERAL
REQUIRED: YES SEQUENCE NUMBER: 3
DESCRIPTION:
Right margin as a single number or range (e.g, 80, 132 or "80-132").
RETURN PARAMETER DESCRIPTION:
RESULT(n)=P1^P2^P3^P4^P5^P6

where n = a sequential number starting with 1
P1 = File 3.5 IEN
P2 = File 3.5 name (.01 value)
P3 = File 3.5 name (.01 value) or flag to indicate last entry in
the array
P4 = location of terminal
P5 = right margin
P6 = page length
```

```
NAME: GMV CLINIC PT TAG: CLINPTS
ROUTINE: GMVCLIN RETURN VALUE TYPE: ARRAY
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
WORD WRAP ON: TRUE
DESCRIPTION:
This procedure lists patients who have an appointment for a selected
clinic and a given period of time.
INPUT PARAMETER: CLIN PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 30 REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
CLIN contains the name of the selected clinic from the Hospital Location
file (#44).
INPUT PARAMETER: BDATE PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 30 REQUIRED: YES
SEQUENCE NUMBER: 2
DESCRIPTION:
```

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

Exported Options

BDATE contains TODAY, TOMORROW, YESTERDAY, PAST WEEK or PAST MONTH.
RETURN PARAMETER DESCRIPTION:
Returns a list of patient names and DFNs for the selected clinic and the given date span in the array specified.

NAME: **GMV CONVERT DATE** TAG: GETDT
ROUTINE: GMVGETQ RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: SUBSCRIPTION INACTIVE: ACTIVE
WORD WRAP ON: TRUE
¹DESCRIPTION:
This remote procedure call converts a user-supplied date/time into VA FileMan's internal and external date format.

This remote procedure call is documented in Integration Agreement 4353.
INPUT PARAMETER: GMRDATE PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 30 REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
GMRDATE is the user-supplied date/time text.
RETURN PARAMETER DESCRIPTION:
RESULT=Date in internal FileMan format^Date in external FileMan format

Example:
> S GMRDATE="10/11/2005@10:30AM"
> D GETDT^GMVGETQ(.RESULT,GMRDATE) ZW RESULT
> RESULT="3051011.103^OCT 11, 2005@10:30:00"

NAME: **GMV CUMULATIVE REPORT** TAG: EN1
ROUTINE: GMVSCO RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
DESCRIPTION:
Prints the Cumulative Vitals Report.
INPUT PARAMETER: GMVDATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 150 REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
A multi-piece variable that identifies the values needed to run the report.

Piece 1: DFN
2: Start date/time of the report range (FileMan format)
3: End date/time of the report range (FileMan format)
4: n/a
5: Device name (File 3.5, Field .01)
6: Device internal entry number
7: date/time to print the report (FileMan format)
8: ward internal entry number (File 42)
9: hospital location internal entry number (File 44)
10: list of rooms separated by a comma (e.g., 200,210,220)

RETURN PARAMETER DESCRIPTION:
Returns a message stating the outcome of the request to queue the report.
If the report was successfully queued, RESULT will be "Report sent to device. Task #: " ZTSK" where ZTSK is the task number of the job. If the report could not be queued, RESULT will be "Unable to task the report."

²NAME: **GMV DLL VERSION** TAG: DLL

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

² April 2006 Patch GMRV*5.0*3 Added new routine and description.

ROUTINE: GMVUTL8 RETURN VALUE TYPE: SINGLE VALUE
 AVAILABILITY: SUBSCRIPTION INACTIVE: ACTIVE
 DESCRIPTION:
 Returns a YES or NO response to indicate if the Dynamic Link Library (DLL) file should be used.

This remote procedure call is documented in Integration Agreement 4420.
 INPUT PARAMETER: GMVX PARAMETER TYPE: LITERAL
 MAXIMUM DATA LENGTH: 50 REQUIRED: YES
 SEQUENCE NUMBER: 1
 DESCRIPTION:
 This value is the name of the file and the date/time associated with it (e.g., GMV_VITALSVIEWENTER.DLL:v. 07/21/05 10:34).
 RETURN PARAMETER DESCRIPTION:
 Returns YES if the file can be used. Returns NO, if the file cannot be used. Returns null if the file was not found.

Example:

```
> S GMVX="GMV_VITALSVIEWENTER.DLL:v. 07/21/05 10:34"
> D DLL^GMVUTL8(.RESULT,GMVX) ZW RESULT
> RESULT="NO"
```

NAME: **GMV ENTERED IN ERROR-PATIENT** TAG: EN1
 ROUTINE: GMVER0 RETURN VALUE TYPE: SINGLE VALUE
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
 DESCRIPTION:
 Prints a report of all vitals/measurements entered in error for the selected patient for a given date/time range.
 INPUT PARAMETER: GMVDATA PARAMETER TYPE: LITERAL
 MAXIMUM DATA LENGTH: 150 REQUIRED: YES
 SEQUENCE NUMBER: 1
 DESCRIPTION:
 A multi-piece variable that identifies the values needed to run the report.

```
Piece 1: DFN
      2: Start date/time of the report range (FileMan format)
      3: End date/time of the report range (FileMan format)
      4: n/a
      5: Device name (File 3.5, Field .01)
      6: Device internal entry number
      7: date/time to print the report (FileMan format)
      8: n/a
      9: n/a
     10: n/a
```

RETURN PARAMETER DESCRIPTION:
 Returns a message stating the outcome of the request to queue the report. If the report was successfully queued, RESULT will be "Report sent to device. Task #: " ZTSK" where ZTSK is the task number of the job. If the report could not be queued, RESULT will be "Unable to task the report."

NAME: **GMV EXTRACT REC** TAG: GETVM
 ROUTINE: GMVGETD RETURN VALUE TYPE: GLOBAL ARRAY
 AVAILABILITY: SUBSCRIPTION INACTIVE: ACTIVE
 WORD WRAP ON: TRUE
¹DESCRIPTION:
 This remote procedure call retrieves vital records from the GMRV Vital

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

Exported Options

Measurement (#120.5) file for a selected patient within a given date span.

This remote procedure call is documented in Integration Agreement 4416.

INPUT PARAMETER: GMRVDATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 30 REQUIRED: YES
SEQUENCE NUMBER: 1

DESCRIPTION:

GMRVDATA consists of 4 pieces of information:

piece1^piece2^piece3^piece4

where piece1 = Patient (#2) file pointer (i.e., DFN)
piece2 = End date of search (FileMan internal format)
piece3 = single vital type abbreviation (File 120.51, Field 1)
 [optional] If not defined, the default is
 "T;P;R;BP;HT;WT;PN;PO2;CG;CVP"
piece4 = Start date of search (FileMan internal format)

RETURN PARAMETER DESCRIPTION:

Returns the name of the global array (i.e., ^TMP(\$J,"GRPC")) containing a list of vital records for the selected patient within the defined date range.

The TMP global contains:

^TMP(\$J,"GRPC",n)=piece1^piece2

where piece1 = File 120.5 IEN
piece2 = a string of text in the following format:
 Date/time taken (external) Vital Type Abbreviation:
 Rate U.S. units (Metric value) (Qualifiers)
n = sequential number starting at 1.

Example:

```
> S GMRVDATA="134^3051028^BP^3051001"  
> D GETVM^GMVGETD(.RESULT,GMRVDATA) ZW RESULT  
> RESULT="^TMP(538999278,"GRPC")"  
> D ^%G  
> Global ^TMP($J,"GRPC"  
> ^TMP(538999278,"GRPC",1)=8858^10/11/05@16:35   B/P:   120/80*   (L ARM,  
SITTING, CAROTID, CALF) _VITPROVIDER,ONE  
>                   2)=8961^10/20/05@14:47   B/P:   128/81*   (L ARM,  
SITTING, PALPATED) _VITPROVIDER,TWO
```

If there is no data, then the following is returned:

^TMP(\$J,"GRPC",1)=0^NO VITALS/MEASUREMENTS ENTERED WITHIN THIS PERIOD

¹NAME: **GMV GET CATEGORY IEN** TAG: CATEGORY
ROUTINE: GMVUTL8 RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: SUBSCRIPTION INACTIVE: ACTIVE
DESCRIPTION:
Returns the IEN if the value is found in the GMRV VITAL CATEGORY (#120.53) file.

This remote procedure call is documented in Integration Agreement 4354.

INPUT PARAMETER: GMVCAT PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 45 REQUIRED: YES
SEQUENCE NUMBER: 1

¹ April 2006 Patch GMRV*5.0*3 Added new routine and description.

DESCRIPTION:

GMVCAT = Name of Category (from FILE 120.53) (e.g., METHOD)

RETURN PARAMETER DESCRIPTION:

Returns the IEN if GMVCAT exists in FILE 120.53

Example:

```
> S GMVCAT="METHOD"
> D CATEGORY^GMVUTL8(.RESULT,GMVCAT) ZW RESULT
> RESULT=2
```

NAME: **GMV GET CURRENT TIME**

TAG: TIME

ROUTINE: GMVUTL7

RETURN VALUE TYPE: SINGLE VALUE

AVAILABILITY: SUBSCRIPTION

INACTIVE: ACTIVE

WORD WRAP ON: FALSE

¹DESCRIPTION:

Gets the current date and time from the server.

This remote procedure call is documented in Integration Agreement 4355.

RETURN PARAMETER DESCRIPTION:

Returns current date and time in FileMan internal and external format.

Example:

```
> D TIME^GMVUTL7(.RESULT) ZW RESULT
> RESULT=3051011.143332
```

Note: There is an input parameter, P2, listed in the TIME line tag of the GMVUTL7 routine. However, it is not used. It can be set to any value or omitted. It remains for backwards compatibility.

²NAME: **GMV GET VITAL TYPE IEN**

TAG: TYPE

ROUTINE: GMVUTL8

RETURN VALUE TYPE: SINGLE VALUE

AVAILABILITY: SUBSCRIPTION

INACTIVE: ACTIVE

DESCRIPTION:

Returns the IEN if the value is found in the GMRV VITAL TYPE (#120.51) file.

This remote procedure call is documented in Integration Agreement 4357.

INPUT PARAMETER: GMVTYPE

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 55

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

GMVTYPE = Name of Vital Type (from FILE 120.51) (e.g., WEIGHT)

RETURN PARAMETER DESCRIPTION:

Returns the IEN if GMVTYPE exists in FILE 120.51.

Example:

```
> S GMVTYPE="WEIGHT"
> D TYPE^GMVUTL8(.RESULT,GMVTYPE) ZW RESULT
> RESULT=9
```

NAME: **GMV LATEST VITALS BY LOCATION**

TAG: EN1

ROUTINE: GMVDS1

RETURN VALUE TYPE: SINGLE VALUE

AVAILABILITY: RESTRICTED

INACTIVE: ACTIVE

DESCRIPTION:

Prints the latest vitals/measurements for all patients on a given ward location.

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

² April 2006 Patch GMRV*5.0*3 Added new routine and description.

Exported Options

INPUT PARAMETER: GMVDATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 150 REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
A multi-piece variable that identifies the values needed to run the report.

Piece 1: n/a
2: n/a
3: n/a
4: n/a
5: Device name (File 3.5, Field .01)
6: Device internal entry number
7: date/time to print the report (FileMan format)
8: ward internal entry number (File 42)
9: hospital location internal entry number (File 44)
10: n/a

RETURN PARAMETER DESCRIPTION:

Returns a message stating the outcome of the request to queue the report. If the report was successfully queued, RESULT will be "Report sent to device. Task #: " ZTSK" where ZTSK is the task number of the job. If the report could not be queued, RESULT will be "Unable to task the report."

NAME: **GMV LATEST VITALS FOR PATIENT** TAG: EN1
ROUTINE: GMVDS1 RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
DESCRIPTION:

Prints the latest vitals/measurements for the selected patient.

INPUT PARAMETER: GMVDATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 150 REQUIRED: YES
SEQUENCE NUMBER: 1

DESCRIPTION:
A multi-piece variable that identifies the values needed to run the report.

Piece 1: DFN
2: n/a
3: n/a
4: n/a
5: Device name (File 3.5, Field .01)
6: Device internal entry number
7: date/time to print the report (FileMan format)
8: n/a
9: n/a
10: n/a

RETURN PARAMETER DESCRIPTION:

Returns a message stating the outcome of the request to queue the report. If the report was successfully queued, RESULT will be "Report sent to device. Task #: " ZTSK" where ZTSK is the task number of the job. If the report could not be queued, RESULT will be "Unable to task the report."

NAME: **GMV LATEST VM** TAG: GETLAT
ROUTINE: GMVGETD RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: SUBSCRIPTION INACTIVE: ACTIVE
WORD WRAP ON: TRUE

¹DESCRIPTION:

This remote procedure call retrieves the latest vital records for a given

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

patient.

This remote procedure call is documented in Integration Agreement 4358.

```
INPUT PARAMETER: GMRDFN          PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 10        REQUIRED: YES
SEQUENCE NUMBER: 1
```

DESCRIPTION:

GMRDFN variable is a pointer to the Patient (#2) file (i.e., DFN).

RETURN PARAMETER DESCRIPTION:

Returns the name of the global array (i.e., ^TMP(\$J,"GRPC")) containing the latest vitals for the selected patient.

The TMP global contains:

```
^TMP($J,"GRPC",n)=piecel
```

where piecel = is a formatted line of text.

n = sequential number starting at 1.

The formatted line of text includes the vital type, value and unit (U.S.), value and unit (metric), qualifiers, supplemental oxygen, body mass index value, and person who entered the record.

If there is no data for the patient, the following is returned:

```
^TMP($J,"GRPC",1)=There are no results to report
```

Example:

```
> S GMRDFN=134
> D GETLAT^GMVGETD(.RESULT,GMRDFN) ZW RESULT
> RESULT="^TMP(539349605,"GRPC")"
> D ^%G
> Global ^TMP($J,"GRPC"
> ^TMP(539349605,"GRPC",1)=Temp.: (08/09/05@08:00) 102 F (38.9 C)*
(ORAL) _VITPROVIDER,ONE
> 2)=Pulse: (07/14/05@16:33) 55
(LEFT,CAROTID,PALPATED,LIVING) _VITPROVIDER,ONE
> 3)=Resp.: (07/14/05@16:33) 31
(SPONTANEOUS,SITTING) _VITPROVIDER,ONE
> 4)=Pulse Ox: (08/22/05@13:48) 99% with
supplemental O2 1 L/min 90% NASAL CANNULA _VITPROVIDER,ONE
> 5)=B/P: (09/26/05@11:30) 120/80* (L
ARM,SITTING,CAROTID,CALF) _VITPROVIDER,TWO
> 6)=Ht.: (09/14/05@17:18) 5 ft 6 in (167.64
cm) (ACTUAL) _VITPROVIDER,ONE
> 7)=Wt.: (09/14/05@17:18) 135 lb (61.36 kg)
(ACTUAL,STANDING) _VITPROVIDER,ONE
> 8)=Body Mass Index: 22
9)=CVP: (08/22/05@17:09) 15 cmH2O (11.0
mmHg) _VITPROVIDER,ONE
10)=Circ/Girth: (07/22/05@10:22) 1 in (2.54 cm)
(DRY,ABDO MINAL) _VITPROVIDER,TWO
11)=Pain: (09/15/05@16:43) 5 _VITPROVIDER,ONE
```

¹NAME: **GMV LOCATION SELECT**

TAG: RPC

ROUTINE: GMVRPCHL

RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: SUBSCRIPTION

INACTIVE: ACTIVE

WORD WRAP ON: TRUE

DESCRIPTION:

¹ April 2006 Patch GMRV*5.0*3 Added new routine and description.

Exported Options

Select a hospital location by name, from a patient appointment or from a patient admission.

This remote procedure is documented in Integration Agreement 4461.

```
INPUT PARAMETER: OPTION          PARAMETER TYPE: LITERAL
    MAXIMUM DATA LENGTH: 10      REQUIRED: YES
    SEQUENCE NUMBER: 1
DESCRIPTION:
Routine tag line in GMVRPCHL to call.
INPUT PARAMETER: DATA          PARAMETER TYPE: LITERAL
    MAXIMUM DATA LENGTH: 100     REQUIRED: YES
    SEQUENCE NUMBER: 2
DESCRIPTION:
Other data as required for the call.
RETURN PARAMETER DESCRIPTION:
This remote procedure call allows the user to select a hospital location.
```

The entry point is RPC^GMVRPCHL. It has input parameters of RESULTS, OPTION and DATA (ex. RPC^GMVRPCHL(.RESULTS,OPTION,DATA)).

The RESULTS variable will contain the ^TMP("GMVHLOC",\$J) global array reference. The ^TMP("GMVHLOC",\$J) global array contains the results.

The OPTION variable identifies a line label in the GMVRPCHL routine that will be invoked to process the call.

The DATA variable contains any additional values needed by the OPTION variable to process the call.

1) When the OPTION value is NAME, this RPC will do a file lookup.

The DATA value is a three part value separated by carets(^). The first part is a file number. The second part is a value to look up. The third part is the field or fields to do the look up on. If the third piece is not defined, the lookup is done on the .01 field of the file.

The TMP global contains:

```
^TMP("GMVHLOC",$J,0)=piece1
^TMP("GMVHLOC",$J,n)=piece2^piece3
```

```
where piece1 = number of entries found
      piece2 = file number, a semi-colon and record IEN
      piece3 = field value
```

Example:

```
>S OPTION="NAME",DATA="44^OUTPATIENT^.01"
>D RPC^GMVRPCHL(.RESULT,OPTION,DATA) ZW RESULT
>RESULT="^TMP("GMVHLOC",539052767)"
>D ^%G
>Global ^TMP("GMVHLOC",$J
>^TMP("GMVHLOC",539052767,0)=3
      1)=44;75^OUTPATIENT NUC MED
      2)=44;74^OUTPATIENT RADIOLOGY
      3)=44;80^OUTPATIENT ULTRASOUND
```

2) When the OPTION value is APPT, this RPC will return a list of clinic appointments for the patient.

The DATA value is a four part value separated by carets(^). The first

piece is DFN. The second piece is the start date of the search. If not defined, this value defaults to 365 days prior to today. The third piece is the end date of the search. If not defined, the value defaults to today. Both dates are in FileMan internal format. The fourth piece is a string of numbers to indicate what types of appointments to return. If not defined, the value defaults to "123456789" (i.e., all appointment types) where:

- 1 - Active/Kept
- 2 - Inpatient appts. only
- 3 - No-shows
- 4 - No-shows, auto-rebook
- 5 - Cancelled by clinic
- 6 - Cancelled by clinic, auto rebook
- 7 - Cancelled by patient
- 8 - Cancelled by patient, auto rebook
- 9 - No action taken

The TMP global contains:

```
^TMP("GMVHLOC",$J,0)=piece1
^TMP("GMVHLOC",$J,n)=piece2^piece3^piece4^piece5^piece6^piece7
                        ^piece8^piece9^
```

```
where piece1 = number of entries found
      piece2 = date/time of appt (FM internal)
      piece3 = date/time of appt (external)
      piece4 = hospital location IEN (FILE 44)
      piece5 = hospital location name (FILE 44, Field .01)
      piece6 = appt status (internal)
      piece7 = appt status (external)
      piece8 = appt type (internal)
      piece9 = appt type (external)
```

Example:

```
> S OPTION="APPT",DATA="78^3051201^3051206^"
> D RPC^GMVRPCHL(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVHLOC",539052767)"
> D ^%G
> Global ^TMP("GMVHLOC",$J
> ^TMP("GMVHLOC",539052767,0)=1
                                1)=3051206.1^DEC 6,2005@10:00^88^WEIGHT
                                CLINIC^^^9^REGULAR
```

3) When the OPTION value is ADMIT, this RPC will return a list of hospital admissions for the patient specified.

The DATA value is the patient's DFN.

The TMP global contains:

```
^TMP("GMVHLOC",$J,0)=piece1
^TMP("GMVHLOC",$J,n)=piece2^piece3^piece4^piece5^piece6
```

```
where piece1 = number of entries found
      piece2 = date/time of admission (external)
      piece3 = hospital location IEN (FILE 44)
      piece4 = hospital location name (FILE 44, Field .01)
      piece5 = type of movement (FILE 405.1, Field .01)
      piece6 = movement IEN (FILE 405)
```

Example:

Exported Options

```
> S OPTION="ADMIT",DATA=134
> D RPC^GMVRPCHL(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVHLOC",539052767)"
> D ^%G
> Global ^TMP("GMVHLOC",$J
> ^TMP("GMVHLOC",539052767,0)=1
                                1)=Apr 09, 2001 1:48:43 pm^67^
                                2-ASM^DIRECT^1712
```

If an error is encountered for NAME, ADMIT or APPT, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned in RESULT(0).

NAME: GMV MANAGER	TAG: RPC
ROUTINE: GMVRPCM	RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: SUBSCRIPTION	INACTIVE: ACTIVE
WORD WRAP ON: TRUE	
¹ DESCRIPTION:	
Performs many functions for the Manager module.	

This remote procedure call is documented in Integration Agreement 4360.

INPUT PARAMETER: OPTION	PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 10	REQUIRED: YES
SEQUENCE NUMBER: 1	
DESCRIPTION:	
Routine tag line in GMVRPCM to call.	
INPUT PARAMETER: DATA	PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 100	REQUIRED: YES
SEQUENCE NUMBER: 2	
DESCRIPTION:	
Other data as required for the call.	
RETURN PARAMETER DESCRIPTION:	
This remote procedure call performs various actions such as building selection lists and modifying package parameters. The entry point is RPC^GMVRPCM. It has input parameters of RESULTS, OPTION and DATA (ex: RPC^GMVRPCM(.RESULTS,OPTION,DATA).	

The RESULTS variable will contain the ^TMP("GMVMGR",\$J) global array reference. The ^TMP("GMVMGR",\$J) global array contains the results.

The OPTION variable identifies a line label in the GMVRPCM routine that will be invoked to process the call.

The DATA variable contains any additional values needed by the OPTION variable to process the call.

1) When the OPTION value is ADDQUAL, this RPC will link a GMRV VITAL QUALIFIER (#120.52) file entry to a GMRV VITAL TYPE (#120.51) file entry.

The DATA value is a three part value separated by semi-colons(;). The first value is the FILE 120.51 internal entry number (IEN). The second value is the GMRV VITAL CATEGORY (#120.53) IEN. The third value is the GMRV VITAL QUALIFIER (#120.52).

Example:

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

```

> S DATA="1;1;1"
> S OPTION="ADDQUAL"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Qualifier Assigned

```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

2) When the OPTION value is DELQUAL, this RPC will unlink a qualifier to a GMRV VITAL TYPE (#120.51) file entry.

The DATA value is a three part value separated by semi-colons. The first value is the FILE 120.51 internal entry number (IEN). The second value is the GMRV VITAL CATEGORY (#120.53) IEN. The third value is the GMRV VITAL QUALIFIER (#120.52) IEN.

Example:

```

> S DATA="1;1;1"
> S OPTION="DELQUAL"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Qualifier removed.

```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

3) When the OPTION value is DELTEMP, this RPC will delete a data input template definition.

The DATA value is a two part value separated by a caret (^). The first value is the ENTITY value. See IA #2263 for a list of entity values. The second value is the name of the data input template.

Example:

```

> S DATA="USR^PAIN ONLY"
> S OPTION="DELTEMP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Template Removed.

```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

4) When the OPTION value is GETCATS, this RPC will return a list of qualifiers (FILE 120.52) associated with a vital type (FILE 120.51).

The DATA value is a one part value. It is a pointer value to FILE 120.51

The TMP global contains:

Exported Options

```
^TMP("GMVMGR",$J,0)=piece1^piece2
^TMP("GMVMGR",$J,n)=piece3^piece4^piece5
```

where piece1 = number of categories (FILE 120.53) associated with this vital type
piece2 = vital type name
piece3 = category IEN (FILE 120.53)
piece4 = category name (FILE 120.53, Field .01)
piece5 = qualifier names (FILE 120.52, Field .01) separated by a comma and space
n = sequential number starting with 1

Example:

```
> S DATA="21"
> S OPTION="GETCATS"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^PULSE OXIMETRY
1)=2^METHOD^AEROSOL/HUMIDIFIED MASK, CPAP, FACE
TENT, L ARM, MASK, NASAL CANNULA, NON RE-BREATHING, PARTIAL RE-BREATHING,
ROOM AIR, T-PIECE, TRACHEOSTOMY COLLAR, VENTILATOR, VENTURI MASK
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

5) When the OPTION value is GETDATA, this RPC will return the value of the entry you specify.

The DATA value is a three part value. The first part is the file number. The second part is the IEN number of the entry. The third part is the field number.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=external value of the field
```

Example:

```
> S DATA="120.51^1^1"
> D RPC(.RESULT,"GETDATA",DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539339804)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539339804,0)=BP
```

If a value cannot be found, then a null value is returned.

6) When the OPTION value is GETDEF, this RPC will return default template names.

The DATA value is a one part value. If it is null, then all default templates for that user will be returned.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1
^TMP("GMVMGR",$J,n)=piece2^piece3
```

where piece1 = number of templates found

piece2 = an IEN value, a semi-colon, and a global reference
 piece3 = template name
 n = sequential number starting with 1

Example A:

```
> S DATA=""
> S OPTION="GETDEF"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=4
    1)=125;SC(^WARD 10A
    2)=334;DIC(4.2,^TEST
    3)=4601;VA(200,^Height ONLY
    4)=547;VA(200,^All Vital Signs
```

If the DATA value is an entity value (see IA 2263 for a list of entity values), then the default template name for that entity will be returned.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=template name
```

Example B:

```
> S DATA="USR"
> S OPTION="GETDEF"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=MY DEFAULT
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

7) When the OPTION value is GETHILO, this RPC will return the abnormal high or low value for a vital type.

The DATA value is a one part value which identifies a field number in the GMRV VITALS PARAMETERS (#120.57) field.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=field value
```

Example:

```
> S DATA=5.2
> S OPTION="GETHILO"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=94
```

A zero is returned if there is no value in the field.

8) When the OPTION value is GETLIST, this RPC returns a list of entries for the file number specified.

Exported Options

The DATA value is a one part value. It is a file number.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1^piece2
^TMP("GMVMGR",$J,n)=piece3^piece4
```

where piece1 = number of entries returned
piece2 = file name [not returned in all cases]
piece3 = file number, a semi-colon and record IEN
piece4 = the .01 value of the record
n = sequential number starting with 1

Examples:

Retrieve a list of wards.

```
> S DATA=42
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=26^WARD LOCATION
    1)=42;14^10A
    n)=42;15^10B
    26)=42;39^10Z
```

Retrieve a list of clinics.

```
> S DATA=44
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=61
    1)=44;6^HOUSE/A
    n)=44;8^HOUSE/C
    61)=44;39^HOUSE/ZZ
```

Retrieve a list vital types.

```
> S DATA=120.51
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=10^GMRV VITAL TYPE
    1)=120.51;1^BLOOD PRESSURE
    N)=120.51;19^CENTRAL VENOUS PRESSURE
    10)=120.51;9^WEIGHT
```

Retrieve a list of qualifiers.

```
> S DATA=120.52
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=80^GMRV VITAL QUALIFIER
    1)=120.52;74^ABDOMINAL
    n)=120.52;42^ACTUAL
    80)=120.52;99^WRIST
```

Retrieve a list of CPRS teams.

```
> S DATA=100.21
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=103
                                1)=100.21;28^1AS
                                n)=100.21;60^1ASO
                                103)=100.21;96^consult team
```

Retrieve a list of nursing units.

```
> S DATA=211.4
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=21
                                1)=211.4;7^10E
                                n)=211.4;17^10W
                                21)=211.4;9^SICU
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

9) When the OPTION value is GETQUAL, this RPC returns a list of qualifiers associated with this vital type.

The DATA value is a two part value separated by a semi-colon. The first part is vital type (FILE 120.51) IEN. The second part is a category (FILE 120.53) IEN.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1^piece2
^TMP("GMVMGR",$J,n)=piece3^piece4
```

```
where piece1 = number of entries found
      piece2 = category name (FILE 120.53, Field .01)
      piece3 = qualifier IEN
      piece4 = qualifier name (FILE 120.52, Field .01)
      n = sequential number starting with 1
```

Example:

```
> S DATA="1;1",OPTION="GETQUAL"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=6^LOCATION
                                1)=139^Test Qualifier
                                2)=53^FEMORAL
                                3)=2^L ARM
                                4)=4^L LEG
                                5)=24^PERIPHERAL
                                6)=1^R ARM
```

Exported Options

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

10) When the OPTION value is GETTEMP, this RPC will return a list data input templates definitions.

The DATA value is a two part value separated by a caret. The first part is an entity value. See IA 2263 for a list of entities. The second part is a data input template name.

When DATA is null, all data input template definitions are returned.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1
^TMP("GMVMGR",$J,n)=piece2^piece3^piece4^piece5^piece6
```

where piece1 = number of entries returned
piece2 = 1, 2, 3, or 4. (1 = Domain, 2 = Institution, 3 = Hospital location and 4 = New Person)
piece3 = file IEN, a semi-colon and global reference
piece4 = Field .01 value of the file specified in piece3
piece5 = template name
piece6 = template description text, a bar, vital type IEN (FILE 120.51), a colon, a metric flag (0=U.S. and 1=metric), category IEN (FILE 120.53), a coma, and a qualifier IEN (FILE 120.52), a tilde indicates additional category and qualifier combinations for the vital type. A semi-colon indicates the start of the next vital type.
n = sequential number starting with 1

Example:

```
> S DATA="USR",OPTION="GETTEMP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1
1)=4^547;VA(200,^VITUSER,ONE^MY DEFAULT^ALL
VITALS|1:0:1,2~2,59~3,50;20:1|
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

11) When the OPTION value is LOOKUP, this RPC will do a file lookup

The DATA value is a three part value separated by a caret. The first part is a file number. The second part is a value to look up. The third part is the field or fields to do the look up on. If the third piece is not defined, the lookup is done on the .01 field of the file.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1
^TMP("GMVMGR",$J,n)=piece2^piece3
```

where piece1 = number of entries found
piece2 = file number, a semi-colon and record IEN
piece3 = field value

Example:

```
> S DATA="44^OUTPAT^.01",OPTION="LOOKUP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539359648)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539359648,0)=3
                                1)=44;75^OUTPATIENT NUC MED
                                2)=44;74^OUTPATIENT RADIOLOGY
                                3)=44;80^OUTPATIENT ULTRASOUND
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

12) When the OPTION value is NEWQUAL, this RPC will always return an error message instructing the user to use the New Term Rapid Turnaround process.

The DATA value is always null.

Example:

```
> S DATA=""
> S OPTION="NEWQUAL"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=-1^Use the New Term Rapid Turnaround (NTRT)
  process to add qualifiers
```

13) When the OPTION value is NEWTEMP, this RPC will file a new data input template.

The DATA value is a three part value separated by a caret. The first part is an entity. See IA 2263 for a list of entities. The second part is the name of the data input template. The third part is the description text. If the third part is null, the template description will default to "No Description".

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1^piece2^piece3^piece4
```

```
where piece1 = 1, 2, 3, or 4 (1 = DOMAIN (#4.2), 2 = INSTITUTION (#4),
                        3 = HOSPITAL LOCATION, and 4 = NEW PERSON)
      piece2 = IEN, a semi-colon, and global reference (e.g., 3;DIC(4.2)
      piece3 = the .01 field value for the record in piece2
      piece4 = data input name
```

Example:

```
> S DATA="USR^1 EAST^All Vital Types"
> S OPTION="NEWTEMP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539343036)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539343036,0)=4^547;VA(200,^VITUSER,ONE^1 EAST
```

If an error is encountered, a "-1" followed by a caret and the error

Exported Options

message text (i.e., -1^error message) is returned.

14) When the OPTION value is RENTEMP, this RPC will rename a data input template.

The DATA value is a three part value separated by a caret. The first part is an entity. See IA 2263 for a list of entities. The second part is the current template name. The third part is the new name of the template.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Renamed
```

Example:

```
> S DATA="USR^FRANK'S DEFAULT^MY DEFAULT"
> S OPTION="RENTEMP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Renamed
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

15) When the OPTION value is SETDATA, this RPC always returns an error message that instructs the user to use the New Term Rapid Turnaround process.

The DATA value is null.

Example:

```
> S DATA=""
> S OPTION="SETDATA"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=-1^Use the New Term Rapid Turnaround (NTRT)
  process to add qualifiers
```

16) When the OPTION value is SETDEF, this RPC will set that data input template as a default.

The DATA value is a two part value separated by a caret. The first part is an entity. See IA 2263 for a list of entities. The second part is the name of the template that will become the default template.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Set As Default
```

Example:

```
> S DATA="USR^FRANK'S LIST"
> S OPTION="SETDEF"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
```

```
> ^TMP("GMVMGR",539356158,0)=1^Set As Default.
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

17) When the OPTION value is SETHILO, this RPC will set the high and low abnormal values for a vital type.

The DATA value is a two part value separated by a caret. The first part is a field number in the GMRV VITALS PARAMETERS (#120.57) file. The second part is the value that field should be set to.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Update Complete.
```

Example:

```
> S DATA="5.1^102",OPTION="SETHILO"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Update Complete.
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

18) When the OPTION value is SETTEMP, this RPC will save the input template definition.

DATA is a three part value separated by a caret. The first part is an entity. See IA 2263 for a list of entities. The second part is the template name. The third part is the template definition.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Template Saved.
```

Example:

```
> S DATA="USR^ONE VITAL TYPE ONLY^CONTAINS ONLY ONE VITAL TYPE|2:0:1,102"|
> S OPTION="SETTEMP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Template Saved.
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

19) When the OPTION value is VALID, this RPC will validate data.

DATA is a four part value separated by a caret. The first part is the a file number. The second part is a record number. The third part is a field number. The fourth part is the value to validate.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Valid Data
```

Exported Options

Example:

```
> S DATA="120.5^8864^.01^3051012.1034",OPTION="VALID"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539343036)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539343036,0)=1^Valid Data
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

NAME: **GMV MARK ERROR** TAG: ERROR
ROUTINE: GMVUTL1 RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: SUBSCRIPTION INACTIVE: ACTIVE
¹DESCRIPTION:
This remote procedure call marks a selected vitals record in the GMRV Vital Measurement (#120.5) file as entered-in-error.

This remote procedure call is documented in Integration Agreement 4414.
INPUT PARAMETER: GMVDATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 60 REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
GMVDATA contains the following information:

piece1^piece2^piece3

where piece1 = FILE 120.5 IEN
piece2 = FILE 200 IEN (i.e., DUZ)
piece3 = A single value to indicate the reason for the error.
1 = INCORRECT DATE/TIME, 2 = INCORRECT READING, 3 =
INCORRECT PATIENT and 4 = INVALID RECORD

RETURN PARAMETER DESCRIPTION:
If the record is marked as entered in error, RESULT is set to "OK".
Otherwise, RESULT is set to "Record Not Found"

Example:

```
> S GMVDATA="1560^547^1"
> D ERROR^GMVUTL1(.RESULT,GMVDATA) ZW RESULT
> RESULT="OK"
```

NAME: **GMV NUR UNIT PT** TAG: APTLIST
ROUTINE: GMVUTL8 RETURN VALUE TYPE: ARRAY
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
²DESCRIPTION:
Returns a list of active patients for a nursing location.
INPUT PARAMETER: LOC PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 60 REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
NURS LOCATION file (#211.4) ien.
RETURN PARAMETER DESCRIPTION:
ARRAY - Subscripted by sequential number with DFN in first piece and patient name in second piece.

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

² April 2006 Patch GMRV*5.0*3 Updated the routine description.

example: ARRAY(#)=DFN^patient name^SSN^DOB^SEX AND AGE^ATTENDING^VETERAN
^INTERNAL DATE/TIME DECEASED^EXTERNAL DATE/TIME DECEASED

NAME: **GMV PARAMETER**

TAG: RPC

ROUTINE: GMVPAR

RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: SUBSCRIPTION

INACTIVE: ACTIVE

WORD WRAP ON: TRUE

¹DESCRIPTION:

Sets and retrieves parameter values used by the graphical user interface.

This remote procedure call is documented in Integration Agreement 4367.

INPUT PARAMETER: OPTION

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 10

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

Routine tag line to call.

INPUT PARAMETER: ENT

PARAMETER TYPE: LITERAL

SEQUENCE NUMBER: 2

DESCRIPTION:

The entity value to use. See Integration Agreement 2263 and FILE 8989.518 for a list of entity values.

INPUT PARAMETER: PAR

PARAMETER TYPE: LITERAL

SEQUENCE NUMBER: 3

DESCRIPTION:

The parameter value to use. See FILE 8989.51 for a list of parameter values. This value must start with the letters "GMV" (no quotes).

INPUT PARAMETER: INST

PARAMETER TYPE: LITERAL

SEQUENCE NUMBER: 4

DESCRIPTION:

The instance to use.

INPUT PARAMETER: VAL

PARAMETER TYPE: LITERAL

SEQUENCE NUMBER: 6

DESCRIPTION:

The value assigned to a parameter. Values are stored in FILE 8989.5.

RETURN PARAMETER DESCRIPTION:

This remote procedure call sets and retrieves parameter settings that are used in the graphical user interface.

The entry point is RPC^GMVPAR.. It has input parameters of RESULTS, OPTION, ENT, PAR, INST and VAL (ex: RPC^GMVPAR(RESULTS,OPTION,ENT,PAR,INST,VAL)).

The RESULTS variable contains the results of the call or the location where the results can be found.

The OPTION variable identifies the entry point in the GMVPAR routine that will be invoked to process the call.

If an error occurs, the ^TMP global contains:

^TMP(\$J,0)=-1^error message text

1) When the OPTION value is DELPAR, this RPC deletes the value for the instance, parameter and entity specified.

The TMP global contains:

^TMP(\$J,0)=1^Instance deleted

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

Exported Options

Example:

```
> S OPTION="DELPAR",ENT="SYS",PAR="GMV DLL VERSION"
> S INST="GMV_VITALSVIEWENTER.DLL:v. 07/21/05 10:34"
> D RPC^GMVPAR(.RESULT,OPTION,ENT,PAR,INST) ZW RESULT
> RESULT="^TMP(538999278)"
> D ^%G
> Global ^TMP($J
> ^TMP(538999278,0)=1^Instance deleted
```

2) When the OPTION value is ENTVAL, this RPC returns the external value of the entity specified.

The TMP global contains:
TMP(\$J,0)=external value

Example:

```
> S OPTION="ENTVAL",ENT="USR"
> D RPC(.RESULT,OPTION,ENT) ZW RESULT
> RESULT="^TMP(538993252)"
> D ^%G
> Global ^TMP($J
> ^TMP(538993252,0)=TRAXLER,FRANK
```

3) When the OPTION value is GETLST, this RPC returns a list of instances and their values for the parameter and entity specified.

The TMP global contains:
^TMP(\$J,0)=piece1
^TMP(\$J,n)=piece2^piece3

where piece1 = number of entries returned
piece2 = instance name
piece3 = instance value
n = sequential number starting with 1

Example:

```
> S OPTION="GETLST",ENT="USR",PAR="GMV USER DEFAULTS"
> D RPC(.RESULT,OPTION,ENT,PAR) ZW RESULT
> RESULT="^TMP(538993252)"
> D ^%G
> Global ^TMP($J
> ^TMP(538993252,0)=44
    1)=DefaultTemplate^547;VA(200,|MY DEFAULT|
    n)=UNIT_INDEX^0
    44)=WARD_INDEX^-1
```

4) When the OPTION value is GETPAR, this RPC will get the value for the instance, parameter and entity specified.

The TMP global contains:
^TMP(\$J,0)=piece1

where piece1 = value

Example:

```
> S ENT="USR",PAR="GMV USER DEFAULTS",INST="DefaultTemplate"
```

```
> S OPTION="GETPAR"
> D RPC(.RESULT,OPTION,ENT,PAR,INST) ZW RESULT
> RESULT="^TMP(538993252)"
> D ^%G
> Global ^TMP($J
> ^TMP(538993252,0)=547;VA(200,|MY DEFAULT|
```

5) When the OPTION value is SETPAR, this RPC set the value of an instance for the instance, parameter and entity specified.

The TMP global contains:

```
^TMP($J,0)=1^Parameter updated
```

Example:

```
> S OPTION="SETPAR",ENT="USR",PAR="GMV USER DEFAULTS",INST="SearchDelay"
> S VAL=1.5
> D RPC^GMVPAR(.RESULT,OPTION,ENT,PAR,INST,VAL) ZW RESULT
> RESULT="^TMP(538999278)"
> D ^%G
> Global ^TMP($J
> ^TMP(538999278,0)=1^Parameter updated
```

```
NAME: GMV PT GRAPH TAG: EN1
ROUTINE: GMVSR0 RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
DESCRIPTION:
Prints Vitals/Measurements Graphic Reports.
INPUT PARAMETER: GMVDATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 150 REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
A multi-piece variable that identifies the values needed to run the
report.
```

```
Piece 1: DFN
2: Start date/time of the report range (FileMan format)
3: End date/time of the report range (FileMan format)
4: Number indicating graph type *
5: Device name (File 3.5, Field .01)
6: Device internal entry number
7: date/time to print the report (FileMan format)
8: ward internal entry number (File 42)
9: hospital location internal entry number (File 44)
10: list of rooms separated by a comma (e.g., 200,210,220)
```

```
* Graph = 1 prints Vital Signs Record
          = 2 prints B/P Plotting Chart
          = 3 prints Weight Chart
          = 4 prints Pulse Oximetry/Respiratory Graph
          = 5 prints Pain Chart
```

RETURN PARAMETER DESCRIPTION:

Returns a message stating the outcome of the request to queue the report. If the report was successfully queued, RESULT will be "Report sent to device. Task #: " ZTSK" where ZTSK is the task number of the job. If the report could not be queued, RESULT will be "Unable to task the report."

```
NAME: GMV PTSELECT TAG: RPC
ROUTINE: GMVRPCP RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
```

Exported Options

WORD WRAP ON: TRUE

DESCRIPTION:
Used as a method of processing a patient DFN and returning all warnings and notices (i.e. sensitivity or same last 4 of SSN) to the client application for processing. Also includes a call to log access of sensitive patients to the DG SECURITY LOG file.

INPUT PARAMETER: RESULT PARAMETER TYPE: REFERENCE
MAXIMUM DATA LENGTH: 30 REQUIRED: YES
SEQUENCE NUMBER: 1

DESCRIPTION:
This is the RPC return array variable.

INPUT PARAMETER: OPTION PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 30 REQUIRED: YES
SEQUENCE NUMBER: 2

DESCRIPTION:
Contains the appropriate method to perform within this RPC call.

Options are:

SELECT: Performs a select of the supplied DFN (param 3) and returns the notices and warnings for the DFN

LOGSEC: Logs a security entry in the DG SECURITY LOG file.

INPUT PARAMETER: DFN PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 12 REQUIRED: YES
SEQUENCE NUMBER: 3

DESCRIPTION:
Contains the DFN of the patient to process in the SELECT or LOGSEC method of param 2.

INPUT PARAMETER: DATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 80 REQUIRED: NO
SEQUENCE NUMBER: 4

DESCRIPTION:
Used to pass in the option name to DGSEC when logging against the DG SECURITY LOG file.

RETURN PARAMETER DESCRIPTION:
RESULTS(0) =Success or failure flag (-1 or 1) from both SELECT & LOGSEC methods
RESULTS(1..n)=Messages to process by the client from the SELECT method.

NAME: **GMV QUALIFIER TABLE** TAG: EN1
ROUTINE: GMVCAQU RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
WORD WRAP ON: TRUE

DESCRIPTION:
Prints a list of categories and qualifiers associated with individual vital types (e.g., blood pressure). Data comes from the GMRV Vital Qualifier (#120.52) file and the GMRV Vital Category (#120.53) file.

INPUT PARAMETER: GMVDATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 150 REQUIRED: YES
SEQUENCE NUMBER: 1

DESCRIPTION:
A multi-piece variable that identifies the values needed to run the report.

Piece 1: n/a
 2: n/a
 3: n/a
 4: n/a
 5: Device name (File 3.5, Field .01)
 6: Device internal entry number

7: date/time to print the report (FileMan format)
 8: n/a
 9: n/a
 10: n/a

RETURN PARAMETER DESCRIPTION:

Returns a message stating the outcome of the request to queue the report. If the report was successfully queued, RESULT will be "Report sent to device. Task #: " ZTSK" where ZTSK is the task number of the job. If the report could not be queued, RESULT will be "Unable to task the report."

NAME: GMV ROOM/BED

TAG: ROOMBED

ROUTINE: GMVGETD

RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED

INACTIVE: ACTIVE

WORD WRAP ON: TRUE

DESCRIPTION:

This procedure extracts room/bed information from Room-Bed file (#405.4) for a given MAS ward.

INPUT PARAMETER: GMRWARD

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 30

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

GMRWARD is a MAS ward name from the Ward Location file (#42).

RETURN PARAMETER DESCRIPTION:

Returns the global array name (i.e., ^TMP(\$J,"GROOM")) containing a list of rooms/beds for the given MAS ward.

^TMP(\$J,"GROOM",n)=Roombed

n is a sequential number starting at 1.

If there is no data, then the global array is undefined.

NAME: GMV TEAM PATIENTS

TAG: TEAMPT

ROUTINE: GMVUTL3

RETURN VALUE TYPE: ARRAY

AVAILABILITY: RESTRICTED

INACTIVE: ACTIVE

WORD WRAP ON: TRUE

DESCRIPTION:

This procedure retrieves patients assigned to a given team.

INPUT PARAMETER: GMVTEAM

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 30

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

GMVTEAM is the internal entry number of the selected team (File 100.21).

RETURN PARAMETER DESCRIPTION:

Returns a list of patients in the array specified.

RESULT(n)=Patient name^DFN^SSN (w/hyphens)^DOB (external)^SEX and AGE^
 Attending^Veteran^Date of Death (external)^Date of Death
 (internal)^Ward name^Roombed

n is a sequential number starting at 1.

NAME: GMV USER

TAG: RPC

ROUTINE: GMVRPCU

RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: SUBSCRIPTION

INACTIVE: ACTIVE

WORD WRAP ON: TRUE

¹**DESCRIPTION:**

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

Exported Options

Retrieves data about the user (e.g., parameter settings).

This remote procedure call is documented in Integration Agreement 4366.

INPUT PARAMETER: OPTION PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 10 REQUIRED: YES
SEQUENCE NUMBER: 1

DESCRIPTION:

Routine tag line to call in GMVRPCU.

INPUT PARAMETER: DATA PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 100 REQUIRED: YES
SEQUENCE NUMBER: 2

DESCRIPTION:

Other data as required for the call.

RETURN PARAMETER DESCRIPTION:

This Remote Procedure Call (RPC) performs various actions focusing on the user. The entry point is RPC^GMVRPCU. It has input parameters of RESULTS, OPTION and DATA (e.g., RPC^GMVRPCU(RESULTS,OPTION,DATA)).

The RESULTS variable contains the results of the call or the location where the results can be found.

The OPTION variable identifies another entry point in the GMVRPCU routine that is invoked to process the call.

The DATA variable contains any values needed by the OPTION variable to process the call.

1) When the OPTION value is SETPAR, this RPC will set and/or delete the value of a GMV USER DEFAULTS setting (e.g., the user's default template).

The DATA value is a two part value separated by a caret. The first part is name of a setting. The second part is the value of the setting. If the second part is null, the existing value of the setting is deleted.

The TMP global contains:

^TMP("GMVUSER",\$J,0)=1^Parameter set.
or
^TMP("GMVUSER",\$J,0)=1^Parameter cleared

Example:

```
> S DATA="DefaultTemplate^547;VA(200,|MY DEFAULT",OPTION="SETPAR" |
> D RPC^GMVRPCU(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVUSER",539374023)"
> D ^%G
> Global ^TMP("GMVUSER",$J
> ^TMP("GMVUSER",539374023,0)=1^Parameter set.
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

2) When the OPTION value is GETPAR, this RPC will return the value of the GMV USER DEFAULTS setting specified in the DATA value.

The DATA value is a one part value. It is the name of a setting (e.g., the user's default template).

The TMP global contains:

^TMP("GMVUSER",\$J,0)=value of setting or null

Example:

```
> S DATA="DefaultTemplate",OPTION="GETPAR"
> D RPC^GMVRPCU(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVUSER",539374023)"
> D ^%G
> Global ^TMP("GMVUSER",$J
> ^TMP("GMVUSER",539374023,0)=547;VA(200,|ONE VITAL TYPE ONLY|
```

3) When the OPTION value is SIGNON, this RPC will return information about the user who is currently signed onto the system.

The DATA value is not used. The user's IEN (i.e., DUZ) to the NEW PERSON (#200) file value must be defined when this call is made.

The RESULT variable will return the following array:

```
RESULT(0)=NEW PERSON (#200) file internal entry number (DUZ)
RESULT(1)=User's name (FILE 200, Field .01)
RESULT(2)=Domain (FILE 4.2) internal entry number
RESULT(3)=Domain name (FILE 4.2, Field .01)
RESULT(4)=Institution (FILE 4) internal entry number the user is signed
into (i.e., DUZ(2))
RESULT(5)=Institution name (FILE 4, Field .01)
RESULT(6)="0" or "1". "1" indicates the user has the GMV MANAGER or
programmer key. "0" indicates the user has neither key.
RESULT(7)=The user's title (FILE 200, Field 8)
RESULT(8)=This value is always null.
RESULT(9)=Number of seconds the system will wait for a response from
the user (i.e., DTIME). The default time is 300 seconds.
RESULT(10)=INSTITUTION (#4) file IEN^FILE 4 external value^station
number (e.g., 499^SUPPORT ISC^499).
```

Example:

```
> S OPTION="SIGNON"
> D RPC(.RESULT,OPTION) ZW RESULT
> RESULT="^TMP("GMVUSER",539375907)"
> D ^%G
> Global ^TMP("GMVUSER",$J
> ^TMP("GMVUSER",539375907,0)=547
1)=VITUSER,ONE
2)=334
3)=DEV.DEV.FO-HINES.MED.VA.GOV
4)=499
5)=SUPPORT ISC
6)=1
7)=PROGRAMMER
8)=
9)=9999
10)=499^SUPPORT ISC^499
```

NAME: **GMV V/M ALLDATA**

TAG: VM DATA

ROUTINE: GMVGGRI

RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: SUBSCRIPTION

INACTIVE: ACTIVE

WORD WRAP ON: TRUE

¹DESCRIPTION:

This remote procedure call lists all vitals/measurements data for a given

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

Exported Options

date/time span.

This remote procedure call is documented in Integration Agreement 4654.

```
INPUT PARAMETER: GMVDATA          PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 60          REQUIRED: YES
SEQUENCE NUMBER: 1
```

DESCRIPTION:

GMVDATA consists of 4 pieces of data:

piece1^piece2^piece3^piece4

where piece1 = File 2 IEN (i.e., DFN)
piece2 = Start date/time for search (FileMan internal format)
piece3 = End date/time for search (FileMan internal format)
piece4 = 0 (zero)

RETURN PARAMETER DESCRIPTION:

RESULT array returns the data or a "NO DATA" message.

Case A: The NO DATA message is returned.

The TMP global returns:

```
^TMP($J,1)=lastname,first  social security number  date of birth  age
              "(Yrs)"  gender
^TMP($J,2)="Unit:" unit  "Room:" room
^TMP($J,3)="Division:" division
^TMP($J,4)= search date range
^TMP($J,5)="NO DATA"
```

Example:

```
> S GMVDATA="90^3051012^3051012^0"
> D VMDATA^GMVGGR1(.RESULT,GMVDATA) ZW RESULT
> RESULT="^TMP(539349605)"
> D ^%G
> Global ^TMP($J
> ^TMP(539349605,1)=VITPATIENT,ONE 000-11-1234  JAN 2,1934  71 (Yrs)
              MALE
              2)=Unit:      Room:
              3)=Division:
              4)=OCT 11,2005 - OCT 11,2005
              5)=NO DATA
```

Case B: Fourth piece of GMVDATA (Flag) is 0

The TMP global returns:

```
^TMP($J,1)=lastname,first  social security number  date of birth  age
              "(Yrs)"  sex
^TMP($J,2)="Unit:" unit  "Room:" room
^TMP($J,3)="Division:" division
^TMP($J,4)= search date range
^TMP($J,n)=piece1 through piece23
```

where piece1 = date of reading in mm-dd-yy format
piece2 = time of reading in hh:mm:ss format
piece3 = Temperature value and qualifier abbreviations
piece4 = Pulse value and qualifier abbreviations
piece5 = Respiration and qualifier abbreviations
piece6 = Pulse Oximetry value, qualifier abbreviations, flow rate
and percentage value
piece7 = Blood Pressure value and qualifier abbreviations


```

piece8 = Weight value (pounds) and qualifier abbreviations
piece9 = Weight value (kilos)
piece10 = Body Mass Index calculation
piece11 = Height value (inches) and qualifier abbreviations
piece12 = Height value (centimeters)
piece13 = Circumference Girth value (inches) and qualifier
          abbreviations
piece14 = Circumference Girth value (centimeters)
piece15 = Central Venous Pressure value (cmH2O)
piece16 = Central Venous Pressure value (mmHg)
piece17 = Input value (from Intake & Output package)
piece18 = Output value (from Intake & Output package)
piece19 = Pain value
piece20 = always null
piece21 = always null
piece22 = hospital location (FILE 44, Field .01)
piece23 = name of person who entered the data (FILE 200, Field .01)

```

Example:

```

> S GMVDATA="134^3050901^3050930^0"
> D VMDATA^GMVGGR1(.RESULT,GMVDATA) ZW RESULT
> RESULT="^TMP(539349605)"
> D ^%G
> Global ^TMP($J
> ^TMP(539349605,1)=VITPATIENT,TWO 000-11-1234 JUN 1,1957 48 (Yrs)
          FEMALE
          2)=Unit: 2-ASM Room:
          3)=Division: TEST HINES
          4)=SEP 1,2005 - SEP 30,2005
          5)=09-14-05^17:18:00^^^^^^135- A St^61.36^22^66-
            A^167.64^^^^^^^ ^2-ASM^VITPROVIDER,ONE
          6)=09-26-05^11:30:57^^^^^120/80*- La Si Car
            Clf^^^^^^^^^^^^^^2-A SM^VITPROVIDER,TWO

```

```

NAME: GMV VITALS/CAT/QUAL TAG: GETVITAL
ROUTINE: GMVUTL7 RETURN VALUE TYPE: ARRAY
AVAILABILITY: SUBSCRIPTION INACTIVE: ACTIVE
WORD WRAP ON: TRUE
1DESCRIPTION:
Returns all qualifier information for the vital types selected.

```

This remote procedure call is documented in Integration Agreement 4359.

```

INPUT PARAMETER: GMVLIST PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 60 REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
A list of vital type abbreviations (FILE 120.51, Field 1) separated by
up-arrows (e.g., "HT^WT" for height and weight). When the value is null,
all qualifier information will be returned for all vital types.
RETURN PARAMETER DESCRIPTION:
Returns the qualifier information for the selected vital types in the
array specified. Includes the abnormal high and low values for the vital
type, if any.

The result array contains:
RESULT(n)=piece1^piece2^piece3^piece4^piece5^piece6^piece7^piece8^piece9
RESULT(n.nnn)=pieceA^pieceB^pieceC^pieceD

```

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

```

where n is a sequential number starting with 1
piece1 = V for vital type
piece2 = FILE 120.51 IEN for this vital type
piece3 = vital type name (FILE 120.51, Field .01)
piece4 = Abbreviation (FILE 120.51, Field 1)
piece5 = PCE Abbreviation (FILE 120.51, Field 7)
piece6 = If vital type is Blood Pressure this is the
          abnormal systolic high value (File 120.57, Field 5.7).
          If vital type is Temperature, this is the abnormal high
          value (File 120.57, Field 5.1)
          If vital type is Respiration, this is the abnormal high
          value (File 120.57, Field 5.5)
          If vital type is Pulse, this is the abnormal high value
          (File 120.57, Field 5.3)
          If vital type is Central Venous Pressure, this is the
          abnormal high value (File 120.57, Field 6.1)
piece7 = If vital type is Blood Pressure this is the
          abnormal diastolic high value (File 120.57, Field 5.71).
          If vital type is Temperature, this is the abnormal low
          value (File 120.57, Field 5.2)
          If vital type is Respiration, this is the abnormal low
          value (File 120.57, Field 5.6)
          If vital type is Pulse, this is the abnormal low value
          (File 120.57, Field 5.4)
          If vital type is Central Venous Pressure, this is the
          abnormal low value (File 120.57, Field 6.2)
piece8 = If vital type is Blood Pressure this is the
          abnormal systolic low value (File 120.57, Field 5.8).
          If vital type is Central Pressure, this is the abnormal
          O2 saturation (File 120.57, Field 6.3)
piece9 = If vital type is Blood Pressure this is the
          abnormal diastolic low value (File 120.57, Field 5.81).

```

```

RESULT(n.nnn)=pieceA^pieceB^pieceC^pieceD
where pieceA = C for CATEGORY or Q for QUALIFIER

```

```

if pieceA is C, then
  pieceB = FILE 120.53 IEN for this category
  pieceC = category name (FILE 120.53, Field .01)
  pieceD = null

if pieceB is Q, then
  pieceB = FILE 120.52 IEN for this qualifier
  pieceC = qualifier name (FILE 120.52, Field .01)
  pieceD = synonym (FILE 120.52, Field .02)

```

Example:

```

> S GMVLIST="HT^WT"
> D GETVITAL^GMVUTL7(.RESULT,GMVLIST) ZW RESULT
> RESULT(1)="V^8^HEIGHT^HT^HT^"
> RESULT(1.001)="C^4^QUALITY"
> RESULT(1.002)="Q^42^ACTUAL^A"
> RESULT(1.003)="Q^43^ESTIMATED^E"
> RESULT(1.004)="Q^107^Stated^St"
> RESULT(2)="V^9^WEIGHT^WT^WT^"
> RESULT(2.001)="C^2^METHOD"
> RESULT(2.002)="Q^39^OTHER^Oth"
> RESULT(2.003)="Q^50^SITTING^Si"
> RESULT(2.004)="Q^51^STANDING^St"

```

```
> RESULT(2.005)="C^4^QUALITY"
> RESULT(2.006)="Q^42^ACTUAL^A"
```

NAME: **GMV WARD LOCATION** TAG: WARDLOC
 ROUTINE: GMVGETD RETURN VALUE TYPE: GLOBAL ARRAY
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
 WORD WRAP ON: TRUE
 DESCRIPTION:
 This procedure extracts MAS ward locations from Ward Location file (#42) if the ward has patients registered.

Note: No other Input Parameters besides RESULT needed.

RETURN PARAMETER DESCRIPTION:

Returns the global array name containing a list of MAS wards (i.e., ^TMP(\$J,"GWARD")).

^TMP(\$J,"GWARD",n)=Ward IEN^Ward Name

n is a sequential number starting at 1.

NAME: **GMV WARD PT** TAG: WARDPT
 ROUTINE: GMVGETD RETURN VALUE TYPE: GLOBAL ARRAY
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
 WORD WRAP ON: TRUE
 DESCRIPTION:
 This procedure lists patients registered on a particular MAS ward.
 INPUT PARAMETER: GMRWARD PARAMETER TYPE: LITERAL
 MAXIMUM DATA LENGTH: 30 REQUIRED: YES
 SEQUENCE NUMBER: 1
 DESCRIPTION:
 GMRWARD contains the name of ward from Ward Location file (#42).
 RETURN PARAMETER DESCRIPTION:
 Returns the name of the global array containing the list of patients on the selected ward (i.e., ^TMP(\$J,"GMRPT")).

^TMP(\$J,"GMRPT",n)=DFN^Name^SSN (w/hyphens)^DOB^Sex and Age^Attending^
 Veteran^Date of Death (internal)^Date of Death
 (external)^Ward name^Roombed

n is a sequential number starting at 1.

If there are no patients on the ward, then the global array is undefined.

NAME: **GMV WARD/ROOM PATIENTS** TAG: ROOMPT
 ROUTINE: GMVUTL7 RETURN VALUE TYPE: ARRAY
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
¹DESCRIPTION:
 Returns a list of patients in the ward and rooms specified.
 INPUT PARAMETER: GMVWRD PARAMETER TYPE: LITERAL
 MAXIMUM DATA LENGTH: 60 REQUIRED: YES
 SEQUENCE NUMBER: 1
 DESCRIPTION:
 Name of the ward (e.g., 2EAST).
 INPUT PARAMETER: GMVRLST PARAMETER TYPE: LITERAL
 MAXIMUM DATA LENGTH: 150 REQUIRED: YES
 SEQUENCE NUMBER: 2
 DESCRIPTION:

¹ April 2006 Patch GMRV*5.0*3 Updated the routine description.

Exported Options

The room numbers of the ward separated by comma (e.g., 200,210,220).

RETURN PARAMETER DESCRIPTION:

RESULT(n)=patient name^DFN^DOB (external)^SSN (no hyphens)
where n is a sequential number beginning with 0 (zero)

Menu Option by Name

¹NAME: GMV V/M GUI
MENU TEXT: Vitals/Measurements GUI Application
TYPE: Broker (Client/Server)
PACKAGE: GEN. MED. REC. - VITALS
DESCRIPTION: This option controls access to the GUI Vitals/Measurements application.
TIMESTAMP OF PRIMARY MENU: 60058,25451
RPC: GMV MANAGER
RPC: GMV ADD VM
RPC: GMV ALLERGY
RPC: GMV CLINIC PT
RPC: GMV CONVERT DATE
RPC: GMV CUMULATIVE REPORT
RPC: GMV ENTERED IN ERROR-PATIENT
RPC: GMV EXTRACT REC
RPC: GMV GET CURRENT TIME
RPC: GMV LATEST VITALS BY LOCATION
RPC: GMV LATEST VITALS FOR PATIENT
RPC: GMV LATEST VM
RPC: GMV MARK ERROR
RPC: GMV PT GRAPH
RPC: GMV PTSELECT
RPC: GMV QUALIFIER TABLE
RPC: GMV ROOM/BED
RPC: GMV TEAM PATIENTS
RPC: GMV V/M ALLDATA
RPC: GMV VITALS/CAT/QUAL
RPC: GMV WARD LOCATION
RPC: GMV WARD PT
RPC: GMV WARD/ROOM PATIENTS
RPC: GMV USER
RPC: GMV NUR UNIT PT
RPC: GMV CHECK DEVICE
RPC: GMV PARAMETER
RPC: ORWPT PTINQ
RPC: GMV GET CATEGORY IEN
RPC: GMV GET VITAL TYPE IEN
RPC: VAFCTFU CONVERT DFN TO ICN
RPC: VAFCTFU CONVERT ICN TO DFN
RPC: GMV DLL VERSION
RPC: GMV LOCATION SELECT
UPPERCASE MENU TEXT: VITALS/MEASUREMENTS GUI APPLIC

¹ April 2006 Patch GMRV*5.0*3 Added six RPCs to the end of this list.

6. Archiving and Purging

This chapter describes how IRMS personnel may use FileMan's archiving capability to archive and purge Vitals/Measurements data from the GMRV Vital Measurement (#120.5) file. The data resides in the GMR global.

The FileMan Archive utility builds an index in the archive file of the records saved based on the .01 field and its identifiers (i.e., .02 and .03).

Have your FileMan (V. 22.0) User Manual handy and opened to the Archiving Options chapter.

1) Select the entries you want to archive. Perhaps experiment by saving all the entries for a given year (e.g., 2001) or try this on your test system first.

```
> D P^DI
```

```
VA FileMan 22.0
```

```
Select OPTION: ?
```

```
    Answer with OPTION NUMBER, or NAME
```

```
    Choose from:
```

- | | |
|---|----------------------------|
| 1 | ENTER OR EDIT FILE ENTRIES |
| 2 | PRINT FILE ENTRIES |
| 3 | SEARCH FILE ENTRIES |
| 4 | MODIFY FILE ATTRIBUTES |
| 5 | INQUIRE TO FILE ENTRIES |
| 6 | UTILITY FUNCTIONS |
| 7 | OTHER OPTIONS |
| 8 | DATA DICTIONARY UTILITIES |
| 9 | TRANSFER ENTRIES |

```
Select OPTION: 7  OTHER OPTIONS
```

```
Select OTHER OPTION: ?
```

```
    Answer with OTHER OPTION NUMBER, or NAME
```

```
    Choose from:
```

- | | |
|---|-------------------------------|
| 1 | FILEGRAMS |
| 2 | ARCHIVING |
| 3 | AUDITING |
| 4 | SCREENMAN |
| 5 | STATISTICS |
| 6 | EXTRACT DATA TO FILEMAN FILE |
| 7 | DATA EXPORT TO FOREIGN FORMAT |
| 8 | IMPORT DATA |
| 9 | BROWSER |

```
Select OTHER OPTION: 2  ARCHIVING
```

```
Select ARCHIVE OPTION: ??
```

Archiving and Purging

```
Choose from:
1          SELECT ENTRIES TO ARCHIVE
2          ADD/DELETE SELECTED ENTRIES
3          PRINT SELECTED ENTRIES
4          CREATE FILEGRAM ARCHIVING TEMPLATE
5          WRITE ENTRIES TO TEMPORARY STORAGE
6          MOVE ARCHIVED DATA TO PERMANENT STORAGE
7          PURGE STORED ENTRIES
8          CANCEL ARCHIVAL SELECTION
9          FIND ARCHIVED ENTRIES

Select ARCHIVE OPTION: 1  SELECT ENTRIES TO ARCHIVE
ARCHIVE FROM WHAT FILE: GMRV VITAL MEASUREMENT
-A- SEARCH FOR GMRV VITAL MEASUREMENT FIELD: .01  DATE/TIME VITALS TAKEN
-A- CONDITION: LESS THAN
-A- LESS THAN DATE: 1/1/86  (JAN 01, 1986)  <----Enter the cutoff date to stop
                                           archiving.
-B- SEARCH FOR GMRV VITAL MEASUREMENT FIELD: <RET>

IF: A// <ret>      DATE/TIME VITALS TAKEN LESS THAN JAN 1,1986 (1/1/86)

STORE RESULTS OF SEARCH IN TEMPLATE: GMRV VITAL MEASUREMENT
Are you adding 'GMRV VITAL MEASUREMENT' as      <----Enter a name for the search
a new SORT TEMPLATE? Y  (Yes)                    template just created.
DESCRIPTION:
No existing text
Edit? NO// y  YES      <----Optional.

==[ WRAP ]==[ INSERT ]=====< DESCRIPTION >===== [ <PF1>H=Help
An archiving search template for v/m for entries before 1/1/86.

<=====T=====T=====T=====T=====T=====T=====T=====T=====T=>

SORT BY: DATE/TIME VITALS TAKEN// <RET>
START WITH DATE/TIME VITALS TAKEN: FIRST//  <RET>
FIRST PRINT FIELD: [captionED      <----Enter CAPTIONED to get field
                                           names and values.

Include COMPUTED fields:  (N/Y/R/B): NO// B  BOTH Computed Fields and
Record Number (IEN)

*****
Heading (S/C): GMRV VITAL MEASUREMENT ARCHIVE SEARCH
Replace <RET>
DEVICE: Enter appropriate device
```

2) Create a FileGram template to hold the data while moving it from the database to the storage medium.

```
Select ARCHIVE OPTION: 4  CREATE FILEGRAM ARCHIVING TEMPLATE

OUTPUT FROM WHAT FILE: GMRV VITAL MEASUREMENT// <RET>
```

FIRST SEND GMRV VITAL MEASUREMENT FIELD: ALL Do you mean ALL the fields in the file? No// Y (Yes)

THEN SEND GMRV VITAL MEASUREMENT FIELD: <RET>

STORE ARCHIVE LOGIC IN TEMPLATE: GMRV V/M ARCHIVE <----Enter a name for the FileGram template created.

Are you adding 'GMRV V/M ARCHIVE' as a new PRINT TEMPLATE? Y (Yes)

3) Move the data into temporary storage (i.e., FileGram).

Select ARCHIVE OPTION: 5 WRITE ENTRIES TO TEMPORARY STORAGE

Select ARCHIVAL ACTIVITY: ?

Answer with ARCHIVAL ACTIVITY ARCHIVE NUMBER, or FILE:

1 GMRV VITAL MEASUREMENT 10-16-96 SELECTED
SELECTOR:VITLUSER,ONE ARCHIVING

Select ARCHIVAL ACTIVITY: 1 GMRV VITAL MEASUREMENT 10-16-96
SELECTED SELECTOR:VITLUSER,ONE ARCHIVING

You MUST enter a FILEGRAM template name. This FILEGRAM template will be used to actually build the archive message.

PRINT TEMPLATE: GMRV V/M ARCHIVE GMRV V/M ARCHIVE **FILEGRAM**
(Oct 16, 1996) User #1168 File #120.5

DEVICE: **Enter appropriate device**

4) Move the data to the permanent storage medium (e.g., diskette, tape, CD-Rom) to finish archiving the data.

Select ARCHIVE OPTION: 6 MOVE ARCHIVED DATA TO PERMANENT STORAGE

Select ARCHIVAL ACTIVITY: ?

Answer with ARCHIVAL ACTIVITY ARCHIVE NUMBER, or FILE:

1 GMRV VITAL MEASUREMENT 10-16-96 ARCHIVED (TEMPORARY)
SELECTOR:VITLUSER,ONE ARCHIVING

Select ARCHIVAL ACTIVITY: 1 GMRV VITAL MEASUREMENT 10-16-96
ARCHIVED (TEMPORARY) SELECTOR:VITLUSER,ONE ARCHIVING

NOTE: This option will 1) print an archive activity report to specified PRINTER DEVICE and 2) will move archive data to permanent storage to specified ARCHIVE STORAGE DEVICE.

Select some type of SEQUENTIAL media, such as SDP, TAPE, or DISK FILE (HFS), for archival storage.

PRINTER DEVICE: P-SLAVE-PC <----Select device to print archive activity report.

ARCHIVE STORAGE DEVICE: RMS FILE <----Select permanent storage device, refer to the FM User Manual for additional information.

Archiving and Purging

```
HOST FILE NAME: DAD.DAT//VO.DAT      <----Enter the name of the file which will
                                         hold the archived records.
                                         INPUT/OUTPUT OPERATION: ?
Enter one of the following host file input/ouput operation:
      R = READONLY
      N = NEWVERSION
      RW = READ/WRITE

                                         INPUT/OUTPUT OPERATION: RW

ARCHIVE DEVICE LABEL: VA4$:[VITL]VO.DAT;// <RET> VA4$:[VITL]OT.DAT;
Select ARCHIVE OPTION: <RET>
```

5) Run the PURGE STORED ENTRIES option to purge the entries from File 120.5.

7. Callable Routines

There are no callable routines.

8. External Relations

1. The following *VISTA* applications must reside in the system before Vitals/Measurements, Version 5.0 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 RPC Broker V. 1.1 or greater,
 - e. PIMS V. 5.3 or greater,
 - f. Intake and Output V. 4.0,
 - g. Health Summary V. 2.7 or greater,
 - h. Nursing V. 4.0 or greater.
2. Existing integration agreements between the Vitals/Measurements software and other *VISTA* applications are summarized below.

DBIA's where the Vitals/Measurements package is the subscriber:

```
-----
3736      NAME: CROSS-REFERENCE CREATION ERROR MESSAGE
CUSTODIAL PACKAGE: CLINICAL REMINDERS                      Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS                Chicago
      USAGE: Private                      ENTERED: AUG 29,2002
      STATUS: Active                      EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                               ROOT:
      DESCRIPTION:                      TYPE: Routine
This will give calling packages the ability to generate a cross-reference
creation error message.

ROUTINE: PXRMP12I
COMPONENT: DCERRMSG
VARIABLES: MSG                      Output
                                MSG is an array that contain's the
                                FileMan generated error message.

                                XREF                      Output
                                XREF is an array that contain's, the
                                cross-reference setup information.

*****

4113      NAME: PXR INDEX ERROR MESSAGE
CUSTODIAL PACKAGE: CLINICAL REMINDERS                      Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS                Chicago
      USAGE: Controlled Subscri  ENTERED: JUN 11,2003
      STATUS: Active                      EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                               ROOT:
      DESCRIPTION:                      TYPE: Routine
```

External Relations

```

ROUTINE: PXRMSXRM
COMPONENT: ADDERROR
VARIABLES: GLOBAL      Input
                        Global is the global root for the file
                        being indexed.

                        IDEN      Input
                        IDEN is a string which identifies the
                        record being index.

                        NERROR     Input
                        NERROR is an error number counter.
                        This API will build a list of error found in a particular
                        global while the Clinical Reminder Index ^PXRMINDEX is being
                        built.
COMPONENT: DETIME
VARIABLES: START      Input
                        START is the time that the indexing was
                        started.

                        END        Input
                        END is the time that the indexing
                        finished.
                        This API will write out the elapsed time that it took to
                        index a global.
COMPONENT: COMMSG
VARIABLES: GLOBAL      Input
                        Global is the Global root.

                        START      Input
                        START is the time that the indexing was
                        started.

                        END        Input
                        END is the time that the indexing
                        finished.

                        NE         Input
                        NE is the number of entries that were
                        created in the Clinical Reminder Index.

                        NERROR     Input
                        NERROR is the number of errors that were
                        found while indexing the global.
                        This API will send a MailMan message providing a
                        notification that the indexing of a global is complete.
COMPONENT: ERRMSG
VARIABLES: NERROR      Input
                        NERROR is the number of errors that were
                        found while indexing the global.

                        Global     Input
                        Global is the global root for the file
                        being indexed.
                        This API will send a message if errors were found while
                        Clinical Reminders were indexing the global.

```

```

4114      NAME: DIRECT SET AND KILL OF CLINICAL REMINDERS INDEX
CUSTODIAL PACKAGE: CLINICAL REMINDERS                      Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS                Chicago
      USAGE: Controlled Subscri ENTERED: JUL 31,2003
      STATUS: Active EXPIRES:
      DURATION: Till Otherwise Agr VERSION:
      FILE: ROOT: PXRMINDEX(
DESCRIPTION: TYPE: File

```

This DBIA will allow the subscribing packages to do a direct set and a direct kill to the Clinical Reminders Index.

```

^PXRMINDEX(55,
    Inpatient pharmacy has the right to do a direct set and a direct kill
    on all entries with the first subscript number 55.
^PXRMINDEX(63,
    Lab Services has the right to do a direct set and a direct kill on
    all entries with the first subscript number 63.
^PXRMINDEX(52,
    Outpatient pharmacy has the right to do a direct set and a direct
    kill on all entries with the first subscript number 52.
^PXRMINDEX(100,
    Order Entry has the right to do a direct set and a direct kill on all
    entries with the first subscript number 55.
^PXRMINDEX(601.2,
    Mental Health has the right to do a direct set and a direct kill on
    all entries with the first subscript number 601.2.
^PXRMINDEX(9000011,
    Problem List has the right to do a direct set and a direct kill on
    all entries with the first subscript number 9000011.
^PXRMINDEX(70,
    Radiology has the right to do a direct set and a direct kill on all
    entries with the first subscript number 70.
^PXRMINDEX(45,
    Registration has the right to do a direct set and a direct kill on
    all entries with the first subscript number 45.
^PXRMINDEX(120.5,
    Vitals has the right to do a direct set and a direct kill on all
    entries with the first subscript number 120.5.
^PXRMINDEX(9000010.18,
    PCE has the right to do a direct set and a direct kill on all entries
    with the first subscript number 9000010.18
^PXRMINDEX(9000010.13,
    PCE has the right to do a direct set and a direct kill on all entries
    with the first subscript number 9000010.13.
^PXRMINDEX(9000010.23,
    PCE has the right to do a direct set and a direct kill on all entries
    with the first subscript number 9000010.23.
^PXRMINDEX(9000010.11,
    PCE has the right to do a direct set and a direct kill on all entries
    with the first subscript number 9000010.11.
^PXRMINDEX(9000010.16,
    PCE has the right to do a direct set and a direct kill on all entries
    with the first subscript number 9000010.16.
^PXRMINDEX(9000010.07,
    PCE has the right to do a direct set and a direct kill on all entries
    with the first subscript number 9000010.07.
^PXRMINDEX(9000010.12,
    PCE has the right to do a direct set and a direct kill on all entries
    with the first subscript number 9000010.12.

```

ROUTINE:

1391	NAME: GMRY NUR SHIFT/OTHER	
CUSTODIAL PACKAGE: GEN. MED. REC. - I/O		Chicago
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS		Chicago
USAGE: Private	ENTERED: NOV 7,1995	
STATUS: Active	EXPIRES:	

External Relations

DURATION: Till Otherwise Agr VERSION:
FILE: 126.95 ROOT: GMRD(126.95,
DESCRIPTION: TYPE: File
Nursing and Vitals/Measurements have permission to access the GMR Y NUR
Shift/Other file fields described in this DBIA.

^GMRD(126.95,D0,
1 NIGHT 1;1 Direct Global Read
2 DAY 1;2 Direct Global Read
3 EVENING 1;3 Direct Global Read

ROUTINE:

1392 NAME: GMR Y INPUT TYPE
CUSTODIAL PACKAGE: GEN. MED. REC. - I/O Chicago
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago

USAGE: Private ENTERED: NOV 7,1995

STATUS: Active EXPIRES:

DURATION: Till Otherwise Agr VERSION:

FILE: 126.56 ROOT: GMRD(126.56,

DESCRIPTION: TYPE: File
Vitals/Measurements has permission to access the GMR Y Input Type file as
described in this DBIA.

^GMRD(126.56,D0,
.01 NAME 0;1 Direct Global Read
Direct global read of the "C" cross-reference of the GMR Y Input Type
file is also supported.

ROUTINE:

1393 NAME: GMR Y OUTPUT TYPE
CUSTODIAL PACKAGE: GEN. MED. REC. - I/O Chicago
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago

USAGE: Private ENTERED: NOV 7,1995

STATUS: Active EXPIRES:

DURATION: Till Otherwise Agr VERSION:

FILE: 126.58 ROOT: GMRD(126.58,

DESCRIPTION: TYPE: File
Vitals/Measurements has permission to access the GMR Y Output Type (126.58)
file as described in this DBIA.

^GMRD(126.58,D0,
.01 OUTPUT TYPE 0;1 Direct Global Read
Direct global read of the "C" cross-reference of the GMR Y Output Type
file is also supported.

ROUTINE:

1430 NAME: GMR YRP1
CUSTODIAL PACKAGE: GEN. MED. REC. - I/O Chicago
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago

USAGE: Private ENTERED: NOV 20,1995

STATUS: Active EXPIRES:

DURATION: Till Otherwise Agr VERSION:

FILE: ROOT:

DESCRIPTION: TYPE: Routine

Nursing has permission to access the NEXT entry point for the GMRYRP1 routine. Vitals/Measurements is allowed to use the entry STARTD for the GMRYRP1 routine.

ROUTINE: GMRYRP1
 COMPONENT: NEXT
 VARIABLES: GMRFIN Input Date/time the current nursing shift ends.
 GLASTDT Output Date the day before the date stored in GMRFIN.
 GDTSTRT Output Date the nursing shift starts.
 GNXTDT Output Date the day after the date stored in GDTSTRT.
 GMRNIT Output Time the nursing night shift starts.
 GDTFIN Output Date the nursing shift ends.

This entry point is called to initialize variables required for the SETSIFT^GMRYRP2 call.

COMPONENT: STARTD
 VARIABLES: DFN Input Patient IEN.
 GMRSTRT Both Input: Start date of information extract.
 Output: Start date_night shift start hour.
 GMRFIN Both Input: End date of information extract.
 Output: End date_evening shift end hour.
 GMROUT Both Passed in with a value of 0. Returned a value of 1 if exited abnormally.
 GRPT Input Set to 5 to indicate that the data are requested the V/M Graphic Reports.
 GMRNIT Input Nursing night shift start hour defined in the GMRY NUR Shift/Other file (126.95).
 GMRDAY Input Nursing day shift start hour defined in the GMRY NUR Shift/Other file (126.95).
 GMREVE Input Nursing evening shift start hour defined in the GMRY NUR Shift/Other file (126.95).

This entry is called to set up the start date/time and end date/time of information extract according to the nursing shift starting hours defined in the GMRY NUR Shift/Other file (126.95).

1432 NAME: GMRYUT0
 CUSTODIAL PACKAGE: GEN. MED. REC. - I/O Chicago
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: NOV 20,1995
 STATUS: Active EXPIRES:

External Relations

```

DURATION: Till Otherwise Agr  VERSION:
      FILE:                      ROOT:
DESCRIPTION:                      TYPE: Routine
Vitals/Measurements can access the GMTRYUT0 routine as described in this
DBIA.
```

```

ROUTINE:  GMRYT0
COMPONENT: PT
VARIABLES: DFN          Input          Patient IEN.
          GMRAGE         Output         Age of patient.
          GMRBED         Output         Room-bed for patient.
          GMRSEX         Output         Patient sex.
          GMRVADM        Output         Patient admission date.
          GMRWARD        Output         Pointer to Ward Location (42) file
                                         denoting patient's location.
          GMRWARD(1)    Output         Free text of patient's location.
                                         This entry is used to call 1^VADPT to set up VAIN and VADM
                                         local variables.

```

* * * * *

```

1434      NAME:  GMRYUT9
CUSTODIAL PACKAGE:  GEN. MED. REC. - I/O                                Chicago
SUBSCRIBING PACKAGE:  GEN. MED. REC. - VITALS                          Chicago
      USAGE:  Private                                ENTERED:  NOV 20,1995
      STATUS:  Active                                EXPIRES:
      DURATION:  Till Otherwise Agr  VERSION:
      FILE:                                           ROOT:
      DESCRIPTION:                                TYPE:  Routine
Vitals/Measurements can access the GMRYUT9 routine as described in this
DBIA.

```

ROUTINE:	GMRYUT9		
COMPONENT:	PATIENT		
VARIABLES:	DFN	Input	Patient IEN.
	GMRNUR	Input	This is set to 1 to indicate return data from Nurs Patient file.
	SSN	Output	Patient SSN.
	GMRAGE	Output	Patient's age.
	GMRSEX	Output	Patient's sex.
	GMRBED	Output	Patient's room-bed.
	GMRVADM	Output	Patient admission date/time.
	GMRWARD	Output	Pointer to Ward Location (42) file denoting patient's location.
	GMRWARD(1)	Output	

Free text version of patient location.
This entry point extracts information from Nurs Patient
(214) file.

* * * * *

```

1435      NAME: GMRYRP2
CUSTODIAL PACKAGE: GEN. MED. REC. - I/O                      Chicago
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS                  Chicago
      USAGE: Private                      ENTERED: NOV 20,1995
      STATUS: Active                      EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                                ROOT:
      DESCRIPTION:                        TYPE: Routine
Nursing and Vitals/Measurements can access the following entry points in
the GMRYRP2 routine.

```

ROUTINE:	GMRYP2	
COMPONENT:	SAVE	
VARIABLES:	DA(1)	Input
		Pointer to the GMRYP Patient I/O file (126).
	II	Input
		Passed in with a value of "IN" or "OUT" subscript of the GMRYP Patient I/O file (126).
	GMRSTRT	Input
		Date/time the current nursing shift starts.
	GMRFIN	Input
		Date/time the current nursing shift ends.
	TMP	Output
		^TMP(\$J,"GMRYP") global contains intake and output information for a selected patient.

This entry call extracts the intake and output information and stores the data in ^TMP(\$J,"GMRY") for a selected patient.

COMPONENT:	SAVEIV		
VARIABLES:	DA(1)	Input	Pointer to the Patient I/O file (126).
	GMRSTRT	Input	Date/time the current nursing shift starts.
	GMRFIN	Input	Date/time the current nursing shift ends.
	TMP	Output	^TMP(\$J,"GMR") global contains the patient intravenous infusion information.

This entry call extracts patient intravenous infusion information and stores the data in ^TMP(\$J,"GMRY") global.

COMPONENT:	SETSIFT		
VARIABLES:	GMRINDT	Input	
			Date/time the I/O data was entered.
	GDTSTRT	Input	
			Date the nursing shift starts.
	GDTFIN	Input	
			Date the nursing shift ends.
	GLASTDT	Input	
			Date the day before the current nursing

shift ends.

GS SHIFT	Output	Value = "SH-1" night shift, = "SH-2" day shift, = "SH-3" evening shift.
----------	--------	--

This entry is called to assign the nursing shift (night, day or evening) according to the date/time the I/O data was entered.

COMPONENT:	GMRYRP2	
VARIABLES:	DFN	Input

Patient IEN.

GMRSTRT	Input	Start date for the information extract.
GMRFIN	Input	End date for the information extract.

This routine is called by the Vitals/Measurements to extract patient intake and output information entered within a selected date range.

1436 NAME: GMRYRP3

CUSTODIAL PACKAGE:	GEN. MED. REC. - I/O	Chicago
SUBSCRIBING PACKAGE:	GEN. MED. REC. - VITALS	Chicago
USAGE:	Private	ENTERED: NOV 20,1995
STATUS:	Active	EXPIRES:
DURATION:	Till Otherwise Agr	VERSION:
FILE:		ROOT:
DESCRIPTION:		TYPE: Routine

Nursing and Vitals/Measurements can access the following entry point in the routine GMRYRP3.

ROUTINE:	GMRYRP3	
COMPONENT:	REPORT1	
VARIABLES:	GRPT	Input

Type of intake/output report. Set GRPT = 10 for the Nursing End of Shift Report. Set GRPT = 5 for the V/M Graphic Reports.

GQ	Input	Passed in with a value of 0, required by the GMRYRP3 routine.
GQT	Input	Passed in with a value of 0, required by the GMRYRP3 routine.
GMR OUT	Both	This variable indicates whether the user abnormally exited the process. It is passed in with a value of 0.
TMP	Both	^TMP(\$J,"GMR") contains the intake, output and intravenous infusion data for a patient. If the data is requested by the Vitals/Measurements, ^TMP(\$J,"GMR") is also used to store the aggregated information.
GTOTLI	Output	Intake grand total.
GTOTLO	Output	Output grand total.
GN(1)	Output	

The following example API call demonstrates syntax, and also shows a sample of the output of this call.

```
>W $$PARAM^HLCS2
81^BALTIMORE.MED.VA.GOV^P^512^MARYLAND HCS^512^3030^HL7
MSG^^^^
```

When \$\$PARAM^HLCS2 is called, a string is returned containing key HL7 environment values. The values in the string are delimited by the up-arrow ('^'). The pieces of data returned, and the source for the data, is listed below.

Piece	Type-Data	Data	Source

1	Numeric	Domain file pointer	DOMAIN field (#.02)
in the			HL COMMUNICATION
PARAMETERS			file (#869.3).
2	Text	Domain name	NAME field (#.01)
in the			DOMAIN file entry.
(See			piece #1.)
3	Text	Set of codes	DEFAULT PROCESSING
ID field			(#.03) in the HL
PARAMETERS			COMMUNICATION
4	Numeric	Institution pointer	file (#869.3).
(#.04) in			INSTITUTION field
COMMUNICATION			the HL
(#869.3).			PARAMETERS file
5	Text	Institution name	NAME field (#.01)
in the			INSTITUTION file
(#4).			(See piece 4.)
6	Text	Station number	STATION field (#99)
in the			INSTITUTION file
(#4).			(See piece 4.)
7	Numeric	Mail Group pointer	MAIL GROUP field
(#.05) in			the HL
COMMUNICATION			PARAMETERS file
(#869.3).			NAME field (#.01)
8	Text	Mail Group name	MAIL GROUP file
in the			(See piece 7.)
(#3.8).			


```

ArrayName(sequential #)=File 211.4
ien^File 44 name (for 211.4
ien).

If no active locations returns:
ArrayName(1)="NO UNIT".
Returns all active nursing locations from the NURS LOCATION
file (#211.4) in the array specified. FILE 211.4 points to
HOSPITAL LOCATION file (#44).
COMPONENT: PTCHK(LOC)
VARIABLES: LOC          Input
                    (Required) NURS LOCATION file (#211.4)
                    ien.
This function indicates if any patients (active or
inactive) are associated with the Nursing location
identified.

Returns: 0 - no patients associated with this location
        1 - yes, patients are associated with this
        location
        -1 - (minus 1) LOC is undefined or not found
COMPONENT: APTCHK(LOC)
VARIABLES: LOC          Input
                    (Required) NURS LOCATION file (#211.4)
                    ien.
This function indicates if active patients are associated
with the Nursing location identified.

Returns: 0 - no active patients associated with this
        location
        1 - yes, active patients are associated with this
        location
        -1 - (minus 1) LOC is undefined or not found
COMPONENT: PTLIST(LOC,.ARRAY)
VARIABLES: LOC          Input
                    (Required) NURS LOCATION file (#211.4)
                    ien.
        ARRAY          Both
                    Input - (Required) Name of array to
                    return entries in Output - Subscripted by
                    sequential number with DFN in first piece
                    and
                    patient name in second piece.
                    Example: ArrayName(sequential
                    #)=DFN^patient name

If LOC is undefined or not found, then
returns ARRAY(1)=-1. If no patients on
the Location, then returns ARRAY(1)="^No
Patients".
Returns a list of all (active and inactive) patients for a
nursing location in the array specified.
COMPONENT: APTLIST(LOC,.ARRAY)
VARIABLES: LOC          Input
                    (Required) NURS LOCATION file (#211.4)
                    ien.
        ARRAY          Both
                    Input - (Required) Name of the array to
                    return entries in Output - Subscripted by
                    sequential number with DFN in first piece

```

and
 patient name in second piece.
 Example: ArrayName(sequential
 #)=DFN^patient name

If LOC is undefined or not found, then
 returns ARRAY(1)=-1. If no patients on
 the Location, then returns ARRAY(1)="^No
 Patients".

Returns a list of active patients for a nursing location in
 the array specified.

COMPONENT: FINDNLOC(LOC)
 VARIABLES: LOC Input

(Required) Name of the Nursing location
 (as it appears in File 44). The name
 should begin with the characters 'NUR '.
 If not, NUR<space> will be appended to
 the beginning of LOC.

This function returns the NURS LOCATION file (#211.4) ien
 and the ien of the location (File 44, Field .01). If LOC is
 undefined, then returns -1. If no such location returns:
 "^Location not found".

Returns: File 211.4 ien^File 44 ien

COMPONENT: MASWARDS(LOC,.ARRAY)
 VARIABLES: LOC Input

(Required) NURS LOCATION file (#211.4)
 ien.

ARRAY Both

Input - (Required) Name of array to
 return entries in. Output - ARRAY
 subscripted by the MAS WARD value.

Example:

ArrayName(\$P(^NURSF(211.4,LOC,3,D1,0),U,1))=
 ""

If LOC is null or not found, then
 ARRAY(1)=-1.

Returns the MAS wards associated with this Nursing location
 in the array specified. The .01 field of the MAS WARD
 multiple of the NURS LOCATION file points to the WARD
 LOCATION file (#42).

861	NAME: OR	
CUSTODIAL PACKAGE:	ORDER ENTRY/RESULTS REPORTING	Salt Lake City
SUBSCRIBING PACKAGE:	GEN. MED. REC. - VITALS	Chicago
USAGE:	Controlled Subscri	ENTERED: APR 21,1994
STATUS:	Active	EXPIRES:
DURATION:	Till Otherwise Agr	VERSION:
FILE:		ROOT:
DESCRIPTION:		TYPE: Routine

ROUTINE: OR
 COMPONENT: EN
 VARIABLES: X Input

Variable pointer of the protocol.
 OE/RR Processor. This is the main entry point to run the

External Relations

OE/RR program. It is called with X set as a variable pointer to the initial protocol.

```

862      NAME: ORUHDR
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING          Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS                Chicago
      USAGE: Controlled Subscri   ENTERED: APR 21,1994
      STATUS: Active               EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                        ROOT:
      DESCRIPTION:                 TYPE: Routine

ROUTINE: ORUHDR
COMPONENT: EXT
VARIABLES: ORIFN      Both      Internal number in file 100 of the order
                                   to display.
      ORAGE      Output      Patient age.
      ORIO      Output
      ORANSI     Output
      ORDOB      Output      Patient Date of Birth
      ORFT      Output
      ORHI      Output
      ORNP      Output      Pointer to file 200 for Current
                                   Agent/Provider
      ORL      Output      Variable pointer to the variable pointer.
      ORPD      Output
      ORPNM     Output
      ORPV      Output      Patient name
                                   Pointer to Provider file for the person
                                   requesting the order.
      ORSEQ     Output
      ORSEX     Output      Patient sex.
      ORSSN     Output      Patient SSN
      ORTIT     Output      Title
      ORTS      Output      Pointer to Treating Specialty associated
                                   with the order.
      ORVP      Output      Variable pointer toe object of an order.
      ORWARD     Output      Inpatient Ward location
                                   Displays a standard header for detailed order displays. If
                                   calling this from within OE/RR, it is not necessary to
                                   killthe returned variables. OE/RR will kill them.
COMPONENT: PGBRK
VARIABLES: DIROUT     Output      User entered a '^'^
      OREND      Output      User entered a '^'

```


Displays 'Press return to continue or ^ to escape' at page breaks.

* * * * *

```

      864      NAME:  ORUTL
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING      Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS           Chicago
      USAGE:  Controlled Subscri      ENTERED:  APR 21,1994
      STATUS:  Active                  EXPIRES:
      DURATION: Till Otherwise Agr      VERSION:
      FILE:                                ROOT:
      DESCRIPTION:                        TYPE: Routine

      ROUTINE:  ORUTL
      COMPONENT: READ
      VARIABLES:

```

* * * * *

865	NAME: ORVOM	
CUSTODIAL PACKAGE:	ORDER ENTRY/RESULTS REPORTING	Salt Lake City
SUBSCRIBING PACKAGE:	GEN. MED. REC. - VITALS	Chicago
USAGE:	Controlled Subscri	ENTERED: APR 21,1994
STATUS:	Active	EXPIRES:
DURATION:	Till Otherwise Agr	VERSION:
FILE:		ROOT:
DESCRIPTION:		TYPE: Routine
ROUTINE:	ORVOM	

* * * * *

866	NAME: ORX	
CUSTODIAL PACKAGE:	ORDER ENTRY/RESULTS REPORTING	Salt Lake City
SUBSCRIBING PACKAGE:	GEN. MED. REC. - VITALS	Chicago
USAGE:	Controlled Subscri	ENTERED: APR 21,1994
STATUS:	Active	EXPIRES:
DURATION:	Till Otherwise Agr	VERSION:
FILE:		ROOT:
DESCRIPTION:		TYPE: Routine

ROUTINE:	ORX	
COMPONENT:	FILE	
VARIABLES:	OREPDUZ	Input
		DUZ of the person entering the order.
	ORL	Input
		Variable pointer to the variable pointer.
	ORPCL	Input
		Variable pointer to the protocol that created the order.
	ORNP	Input
		Pointer to file 200 for Current Agent/Provider
	ORVP	Input
		Variable pointer to the object of an order.
	ORCOST	Input
		Cost of the order
	OREVENT	Input

External Relations

			Two piece variable delimited by a semicolon. The first piece is the time at which an event should occur. The second piece is a character that has meaning to a package.
	ORIT	Input	Variable pointer to the item ordered.
	ORLOG	Input	Time the order is entered.
	ORPK	Input	Package reference defined by the package when an order is created.
	ORPURG	Input	Grace days before an order is purged.
	ORSTOP	Input	Order Stop Date
	ORSTRT	Input	Order start date
	ORSTS	Input	Order status
	ORTO	Input	Pointer to Display Group file. Identifies the service receiving the order.
	ORTS	Input	Pointer to Treating Specialty associated with the order.
	ORTX(i)	Input	Order Text.
	ORIFN	Output	Internal entry number of order in file 100
COMPONENT:	RETURN		
VARIABLES:	ORIFN	Input	Internal entry number of order.
	ORETURN(OR	Input	Cost of the order.
	ORETURN(OR	Input	Two piece variable delimited by a semicolon. The first piece is the time at which an event should occur. The second piece is a character that has meaning to a package.
	ORETURN(OR	Input	Variable pointer to the item ordered.
	ORETURN(OR	Input	Free text, package defined reference.
	ORETURN(OR	Input	Grace period before purging order.
	ORETURN(OR	Input	Pointer to file 200 for Current Agent/Provider
	ORETURN(OR	Input	Stop Date
	ORETURN(OR	Input	Start Date
	ORETURN(OR	Input	Pointer to Order Status
	ORETURN(OR	Input	Order Text
COMPONENT:	ST		

VARIABLES: ORIFN Input Internal entry number of the order.
 ORSTS Input Order Status

867 NAME: ORX2
 CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: JUN 29,1999
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine

ROUTINE: ORX2
 COMPONENT: LK
 VARIABLES: X Input Variable pointer of patient.
 Y Output Y=1 if lock is successful, 0 if failed.
 This interactive call will attempt to lock a patient's
 "chart" when adding new orders; if the lock fails, a
 message will be displayed indicating who has the patient's
 chart locked currently. Applications using this entry
 point must also call ULK^ORX2 to unlock the chart when
 finished.
 COMPONENT: ULK
 VARIABLES: X Input Variable pointer to the patient.
 This silent call will unlock a patient's "chart" after
 adding new orders. Do not call this entry point unless you
 have already successfully locked the chart via LK^ORX2.
 COMPONENT: LOCK
 VARIABLES: DFN Input This parameter is a pointer to the
 Patient file #2.
 \$\$LOCK Output Function returns 1 if lock is successful
 or 0^message if failed.
 This silent call will attempt to lock a patient's "chart"
 when adding new orders. Applications using this entry
 point must also call UNLOCK^ORX2 to unlock the chart when
 finished.
 COMPONENT: UNLOCK
 VARIABLES: DFN Input This parameter is a pointer to the
 Patient file #2.
 This silent call will unlock a patient's "chart" after
 adding new orders. Do not call this entry point unless you
 have already successfully locked the chart via
 \$\$LOCK^ORX2(DFN).
 COMPONENT: LOCK1
 VARIABLES: ORIFN Input This parameter is a pointer to the Orders
 file #100.
 \$\$LOCK1 Output Function returns 1 if lock is successful
 or 0^message if failed.

External Relations

This silent call will attempt to lock an order in the Orders file #100 when it is updated. Applications using this entry point must also call UNLK1^ORX2 to unlock the order when finished.

COMPONENT: UNLK1

VARIABLES: ORIFN Input

This parameter is a pointer to the Orders file #100.

This silent call will unlock an order after updating it. Do not call this entry point unless you have already successfully locked the order via \$\$LOCK1^ORX2(ORIFN).

868 NAME: ORX3
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: APR 21,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine

ROUTINE: ORX3

COMPONENT: NOTE

VARIABLES: ORNOTE(i) Input

i=internal # of the notification

ORVP Input

Variable pointer to the patient.

ORIFN Input

Order number that you want this notification to linked to.

This is an entry point that creates a notification for a package.

869 NAME: ORX5
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: APR 21,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine

ROUTINE: ORX5

COMPONENT: DC

VARIABLES: ORIFN Input

Pointer to the order.

This entry is called when a package needs to create a DC order.

COMPONENT: HOLD

VARIABLES: ORIFN Input

Pointer to the order.

This entry is called when a package needs to place a HOLD on an ordered item.

870 NAME: ORX7
 CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: APR 21,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine

ROUTINE: ORX7
 COMPONENT: DC
 VARIABLES: ORIFN Input Pointer to the order.
 ORNATR Input Identifies the Nature of Order.
 This entry point is provided for orders that are
 discontinued by the service. This creates a DC order for
 the order identified by ORIFN.

871 NAME: ORX8
 CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: APR 21,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine

ROUTINE: ORX8
 COMPONENT: EN(ORIFN)
 VARIABLES: ORIFN Input Pointer to the order.
 ORUPCHUK(' Output =WHO ENTERED^External Format
 ORUPCHUK(' Output =PATIENT LOCATION
 ORUPCHUK(' Output =CURRENT AGENT/PROVIDER^External format
 ORUPCHUK(' Output =WHEN ENTERED
 ORUPCHUK(' Output =PROTOCOL
 ORUPCHUK(' Output =CURRENT AGENT/PROVIDER^External Format
 ORUPCHUK(' Output =STOP DATE
 ORUPCHUK(' Output =CURRENT START DATE
 ORUPCHUK(' Output =STATUS^External format
 ORUPCHUK(' Output =TO (display group)^External Format
 ORUPCHUK(' Output =ORDER TEXT (Multiple)
 ORUPCHUK(' Output =OBJECT OF ORDER
 This entry point returns data from the Order file (100) for
 a particular order.

External Relations

COMPONENT: NOTIF(ORIFN,ORNOTE)
VARIABLES: ORIFN Input Pointer to the order
 ORNOTE Input Pointer to the notification

873 NAME: File 100.98
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: APR 28,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 100.98 ROOT: ORD(100.98,
DESCRIPTION: TYPE: File
This file may be referenced to determine an appropriate Display Group for
an order in the manner:
S ORTO=\$O(^ORD(100.98,'B','OTHER HOSPITAL SERVICES',0))

ROUTINE:

874 NAME: File 100.99
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: APR 28,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 100.99 ROOT: ORD(100.99,
DESCRIPTION: TYPE: File
This file may be referenced by packages interfacing with OE/RR to see if
OE/RR has been installed in the manner:
I \$D(^ORD(100.99)) ...

Packages may also setup entries in the Package Parameters portion of this
file.

ROUTINE:

875 NAME: File 100.01
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: APR 28,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 100.01 ROOT: ORD(100.01,
DESCRIPTION: TYPE: File
This file may be pointed to.

ROUTINE:

1405 NAME: ORDER
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago

```

        USAGE: Private          ENTERED: NOV  8,1995
        STATUS: Active          EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE: 100              ROOT: OR(100,
        DESCRIPTION:          TYPE: File
Vitals/Measurements has permission to access the Order (100) file as
described in this DBIA.  This agreement shall be only valid for V2.5 of
the Order Entry package.
^OR(100,'AO',
    Direct global read is allowed on the "AO" cross-reference of the
    Order (100) file.

```

ROUTINE:

```

2692      NAME: ORQPTQ1 calls
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING          Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS              Chicago
                Calls TEAMS and TEAMPTS.
        USAGE: Controlled Subscri  ENTERED: JAN  2,1999
        STATUS: Active          EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE:                  ROOT:
        DESCRIPTION:          TYPE: Routine
ORQPTQ1 provides entry points to provide patient lists by providers, etc.
This DBIA will include those calls being used by outside packages.

```

```

ROUTINE: ORQPTQ1
COMPONENT:  TEAMPROV(.ARRAY,TEAMIEN)
VARIABLES:  ARRAY      Output
                Return array as follows:

                ARRAY(#) = New Person IEN ^ New Person
                Name
TEAMIEN      Input
                IEN of OE/RR LIST file (#100.21)
                Input an OE/RR team IEN and receive back an array of
                provides linked to the team.
COMPONENT:  TEAMS(.ARRAY)
VARIABLES:  ARRAY      Both
                Name of the array to return data in.
                Return array as follows: ARRAY(#) = FILE
                100.21 IEN ^ FILE 100.21 NAME (.01)
                Input name of array and receive back all OE/RR LIST file
                (#100.21) IENS and names.  If no entries in FILE 100.21,
                then return: ARRAY(1) = "^No teams found."
COMPONENT:  TEAMPTS(.ARRAY,TEAM)
VARIABLES:  ARRAY      Both
                Name of the array to return data in.
                Return array as follows: ARRAY(#) = DFN ^
                FILE 2 NAME (.01)
TEAM        Input
                IEN for a FILE 100.21 entry.
                Input name of array and OE/RR LIST file (#100.21) IEN.
                Receive back all patient DFNs and names associated with
                that FILE 100.21 entry. If no entries, then return:
                ARRAY(1) = "^No patients found."

```

External Relations

3292 NAME: ORWPT PTINQ
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
 USAGE: Controlled Subscri ENTERED:
 STATUS: Active EXPIRES:
 DURATION: VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Remote Procedure
Returns formatted patient inquiry text for display in GUI environment.

ROUTINE: PTINQ ORWPT

4835 NAME: ADD GMV RPCS TO OR CPRS GUI CHART
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
 USAGE: Private ENTERED: DEC 1,2005
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Other
CPRS grants permission to the GMRV GEN. MED. REC. - VITALS package to add
GMV-namespaced Remote Procedure Calls (RPCs) to the RPC (Field #320)
multiple of the OR CPRS GUI CHART option (File #19).

ROUTINE:

1427 NAME: PHARMACY SYSTEM
CUSTODIAL PACKAGE: PHARMACY DATA MANAGEMENT Birmingham
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: NOV 20,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 59.7 ROOT: PS(59.7,
 DESCRIPTION: TYPE: File
Vitals/Measurements can access the Pharmacy Sytsem (59.7) file as
described in this DBIA.
 ^PS(59.7,D0,
 20.1 VERSION NUMBER LAST 20;1 Direct Global Read

ROUTINE:

1181 NAME: DGPM MOVEMENT EVENT
CUSTODIAL PACKAGE: REGISTRATION Albany
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 The subscribing protocol is: GMRVOR DGPM
 USAGE: Controlled Subscri ENTERED: MAR 23,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Other
This is the event invoked by the registration, discharge, or transfer of a
patient. Actions from any application area that are dependent on this
event may be added to this event upon approval of the DBIC.

The variable DGQUIET -MUST- be checked before doing writes to the screen.
E.g., W:'\$(DGQUIET) !!,"Updating appointment status..."

Please note: If a package has an installation which affects one of the protocols on DGPM MOVEMENT EVENTS, we strongly urge you to disable the following options during installation:

Admit a Patient	DG ADMIT PATIENT
Transfer a Patient	DG TRANSFER PATIENT
Treating Specialty Transfer	DG TREATING TRANSFER
Check-in Lodger	DGPM CHECK-IN
Lodger Check-out	DGPM CHECK-OUT
Discharge a Patient	DG DISCHARGE PATIENT
Disposition and Application	DG DISPOSITION APPLICATION
Extended Bed Control	DG BED CONTROL EXTENDED
Load/Edit PTF Data	DG PTF SCREEN
Quick Load/Edit PTF Data	DG PTF QUICK LOAD
Enter/Edit an IRT	DGJ IRT ENTER/EDIT

ROUTINE:

```

1377      NAME: WARD LOCATION
CUSTODIAL PACKAGE: REGISTRATION
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
                USAGE: Controlled Subscri  ENTERED: NOV  7,1995
                STATUS: Active              EXPIRES:
                DURATION: Till Otherwise Agr VERSION:
                FILE: 42                    ROOT: DIC(42,
DESCRIPTION:                                TYPE: File
Nursing and Vitals/Measurments can access the Ward Location (42) file
fields/cross-references as described in this DBIA.
^DIC(42,D0,
.03      SERVICE              0;3      Direct Global Read
Direct global access on the "B" cross-reference of the Ward Location
(42) file is supported by this DBIA.
```

ROUTINE:

```

1378      NAME: DGPM
CUSTODIAL PACKAGE: REGISTRATION
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
                USAGE: Controlled Subscri  ENTERED: NOV  7,1995
                STATUS: Active              EXPIRES:
                DURATION: Till Otherwise Agr VERSION:
                FILE: 405                  ROOT: DGPM(
DESCRIPTION:                                TYPE: File
Nursing directly references the ^DGPM global.  We would like permission to
reference the following fields/cross-references using direct global reads:

.01  DATE/TIME
.02  TRANSACTION
.03  PATIENT
.06  WARD LOCATION
.14  ADMISSION/CHECK-IN MOVEMENT
"AMV3" cross-reference
```

External Relations

```
"APMV" cross-reference
"ATID1" cross-reference
"ATID2" cross-reference
"ATID3" cross-reference
"CN" cross reference
^DGPM(D0,0)
.01      DATE/TIME           0;1      Direct Global Read
.02      TRANSACTION         0;2      Direct Global Read
.03      PATIENT             0;3      Direct Global Read
.06      WARD LOCATION       0;6      Direct Global Read
.14      ADMISSION/CHECK-IN M 0;14    Direct Global Read
^DGPM('AMV3',
      Direct global read to the "AMV3" cross-reference.
^DGPM('APMV',
      Direct global read to the "APMV" cross-reference.
^DGPM('ATID1',
      Direct global read to the "ATID1" cross-reference.
^DGPM('ATID2',
      Direct global read to the "ATID2" cross-reference.
^DGPM('ATID3',
      Direct global read to the "ATID3" cross-reference.
^DGPM('CN',
      Direct global read to the "CN" cross-reference.
```

ROUTINE:

```
1380      NAME: ROOM-BED
CUSTODIAL PACKAGE: REGISTRATION                      Albany
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS          Chicago
      USAGE: Controlled Subscri ENTERED: NOV  7,1995
      STATUS: Active                EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE: 405.4                  ROOT: DG(405.4,
      DESCRIPTION:                  TYPE: File
Nursing, Vitals/Measurements and Intake/Output have permission to access
the following elements in the Room-Bed (405.4) file.
```

```
^DG(405.4,0) to test for existence of file.
"W" cross-reference
Direct global read of the NAME (.01) field.
^DG(405.4,0)
      Direct global reference of this node to check for existence of
      Room-Bed (405.4) file.
^DG(405.4,D0,0)
.01      NAME                  0;1      Direct Global Read
^DG(405.4,'W',
      Direct global read on the "W" cross-reference.
```

ROUTINE:

```
2242      NAME: DBIA2242
CUSTODIAL PACKAGE: REGISTRATION                      Albany
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS          Chicago
      USAGE: Controlled Subscri ENTERED: NOV 20,1997
      STATUS: Active                EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
```


External Relations

```
STATUS: Active          EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE:                   ROOT:
DESCRIPTION:            TYPE: Routine
The patient lookup routine, DPTLK1, has a useful api for obtaining a
formatted date of birth. Imaging is requesting permission to use this api.
```

```
ROUTINE: DPTLK1
COMPONENT: $$DOB(DFN,DGYR)
VARIABLES: DFN          Input
                  Patient's DFN.
           DGYR          Input
                  If input value is:
                  0 - returns 4-digit year
                  (default)
                  1 - returns 2-digit year
                  2 - returns filemanager date

                  output DOB = mm/dd/yyyy (default)
                           = mm/dd/yy, if DGYR=1
                           = yyymmdd, if DGYR=2
```

Calling routine passes the Patient's DFN and obtains the corresponding date of birth for that patient. If the patient's primary eligibility is 'Employee' then "SENSISTIVE" is passed in place of the date of birth.

```
3267      NAME: DBIA 3267
CUSTODIAL PACKAGE: REGISTRATION
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
          USAGE: Controlled Subscri  ENTERED: DEC  5,2000
          STATUS: Active              EXPIRES:
          DURATION: Till Otherwise Agr  VERSION:
          FILE:                      ROOT:
DESCRIPTION:                        TYPE: Routine
The patient lookup routine, DPTLK1, has a useful api for obtaining the
patient's social security number. Imaging is requesting permission to use
this api.
```

```
ROUTINE: DPTLK1
COMPONENT: SSN
VARIABLES: DFN          Input
                  Patient's dfn
          On a given patient will display the patient's ssn
          identifier; except for employees.
```

```
3630      NAME: VAFCQRY APIs
CUSTODIAL PACKAGE: REGISTRATION
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
          USAGE: Controlled Subscri  ENTERED: JUL 30,2002
          STATUS: Active              EXPIRES:
          DURATION:                  VERSION:
          FILE:                      ROOT:
DESCRIPTION:                        TYPE: Routine
MPIF and RG would like to call the generic segment builders for version
2.4 messages for the PID, EVN and PD1 segments.
```

ROUTINE: VAFQCQRY
 COMPONENT: BLDEVN
 VARIABLES: DFN

DFN	Input	DFN - Internal Entry Number of the patient in the Patient (#2) file.
SEQ	Input	SEQ - variable consisting of sequence numbers delimited by commas that will be used to build the message.
EVN	Input	EVN (passed by reference) - array location to place EVN segment result, the array can have existing values when passed.
HL	Input	HL - array that contains the necessary HL variables (init^hlsub)
EVR	Input	EVR - event reason that triggered this message.
ERR	Input	ERR - array that is used to return an error.

The entry point builds the EVN segment via version 2.4 including the Treating Facility last treatment date and event reason.

COMPONENT: BLDPD1
 VARIABLES: DFN

DFN	Input	DFN - internal entry number of the patient in the PATIENT (#2) file.
SEQ	Input	SEQ - variable consisting of sequence numbers delimited by commas that will be used to build the message.
PD1	Input	PD1 (passed by reference) - array location to place PD1 segment result, the array can have existing values when passed.
HL	Input	HL - array that contains the necessary HL variables (init^hlsub)
ERR	Input	ERR - array that is used to return an error.

This entry point will build the version 2.4 PD1 segment.

COMPONENT: BLDPID
 VARIABLES: DFN

DFN	Input	DFN - internal entry number of the patient in the PATIENT (#2) file.
CNT	Input	CNT - value to be place in PID seq#1 (SET ID)
SEQ	Input	SEQ - variable consisting of sequence numbers delimited by commas that will be used to build the message.

"ALL" can be passed to get all available fields in the PID segment that are

External Relations

PID	Input	available. This is the default. PID (passed by reference) - array location to place PID segment result, the array can have existing values when passed.
HL	Input	HL - array that contains the necessary HL variables (init^hlsub)
ERR	Input	ERR - array that is used to return an error.

This entry point will build the version 2.4 PID segment.

```
93      NAME: DBIA93-A
CUSTODIAL PACKAGE: SCHEDULING                      Albany
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
  USAGE: Controlled Subscri  ENTERED: FEB 17,2005
  STATUS: Active              EXPIRES:
  DURATION: Till Otherwise Agr  VERSION:
  FILE: 44                    ROOT: SC(
  DESCRIPTION:                 TYPE: File
^SC(D0,0)
  8      STOP CODE NUMBER      0;7      Direct Global Read
```

ROUTINE:

```
557     NAME: DBIA93-C
CUSTODIAL PACKAGE: SCHEDULING                      Albany
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
  USAGE: Controlled Subscri  ENTERED: SEP 11,1991
  STATUS: Active              EXPIRES:
  DURATION: Till Otherwise Agr  VERSION:
  FILE: 40.7                  ROOT: DIC(40.7,
  DESCRIPTION:                 TYPE: File
^DIC(40.7,D0,0)
  .01     NAME                  0;1      Direct Global Read
  1       AMIS REPORTING STOP    0;2      Direct Global Read
  2       INACTIVE DATE          0;3      Direct Global Read
^DIC(40.7,'C',X,DA)
  The C cross-reference is used to determine Stop Code, as a direct
  global read.
```

ROUTINE:

```
2432    NAME: DBIA2432
CUSTODIAL PACKAGE: SCHEDULING                      Albany
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
  USAGE: Controlled Subscri  ENTERED: JUN 24,2004
  STATUS: Active              EXPIRES:
  DURATION: Till Otherwise Agr  VERSION:
  FILE: 44                    ROOT: SC(
  DESCRIPTION:                 TYPE: File
Medicine requests a FILEMAN read to the DIVISION field (#3.5) of the
```

HOSPITAL LOCATION file (#44) [\$P(^SC(D0,0),"^",15)] to display what division a Ward belongs to.

^SC(D0,0

3.5	DIVISION	0;15	Read w/Fileman This field contains the Division assigned to the selected entry in the HOSPITAL LOCATION file (#44)
-----	----------	------	--

ROUTINE:

3869 NAME: APPOINTMENT DATA BY CLINIC
CUSTODIAL PACKAGE: SCHEDULING
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
 USAGE: Controlled Subscri ENTERED: JAN 8,2003
 STATUS: Active EXPIRES:
 DURATION: VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
This IA contains a list of the supported calls for interaction with
Appointment data contained in the Patient sub-file 2.98 and the Hospital
Location appointment sub-file 44.001. This IA is associated with
Scheduling patch SD*5.3*275, to be released to NVS on 1/10/03.

ROUTINE: SDAMA202		
COMPONENT: GETPLIST		
VARIABLES:	SDIEN	Input Clinic ID
	SDFIELDS	Input Appointment fields requested
	SDAPSTAT	Input Appointment Status filter (optional parameter)
	SDSTART	Input Start date for appointment search (optional parameter)
	SDEND	Input End date for appointment search (optional parameter)
	.SDRESULT	Input Variable to contain the count of returned appointments (optional parameter)
	SDIOSTAT	Input Patient Status filter (optional parameter)
	SDRESULT	Output A count of the returned appointments
	TMP(\$J,SDA	Output The output array ^TMP(\$J,"SDAMA202","GETPLIST",X,Y) will contain the requested appointment data. Output array

^TMP(\$J,"SDAMA202","GETPLIST","ERROR",error_
code)

will contain any errors that were
generated.

External Relations

The calling application is responsible for deleting the temporary globals when they have finished processing the appointment data or errors.

A call to this entry point will return appointment data for a specific clinic.

* * * * *

```

4084      NAME: FILE 44 AC X-REF
CUSTODIAL PACKAGE: SCHEDULING
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
                USAGE: Controlled Subscri  ENTERED: APR 30,2003
                STATUS: Active                EXPIRES:
                DURATION: Till Otherwise Agr  VERSION:
                FILE: 44                      ROOT: SC(
DESCRIPTION:                TYPE: File
The GEN. MED. REC. - VITALS package (aka Vitals) requests permission to
loop through the AC cross-reference on the HOSPITAL LOCATION file (#44).
The AC cross-reference is on the TYPE EXTENSION field (#2.1). Using the AC
cross-reference will allow us to get the internal entry numbers (IENS) for
locations by their type (e.g., retrieve only clinics). Using the AC
cross-reference will speed up the retrieval of IENS.
    ^SC('AC',
        2.1      TYPE EXTENSION      0;22      Direct Global Read

```

ROUTINE:

* * * * *

```

510      NAME: DISV
      CUSTODIAL PACKAGE: VA FILEMAN
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
      USAGE: Controlled Subscri  ENTERED: JUL 27,1989
      STATUS: Active                EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                        ROOT: DISV(
DESCRIPTION:                        TYPE: File
Used to process 'space-bar return' on user input.

```

ROUTINE:

* * * * *

```

1412      NAME: DD GLOBAL
CUSTODIAL PACKAGE: VA FILEMAN
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
      USAGE: Controlled Subscri
      STATUS: Active
      DURATION: Till Otherwise Agr
      FILE: 0
DESCRIPTION:
      TYPE: File
The Nursing, Vitals/Measurements, and Text Generator packages have been
granted permission to access the DD global as defined in this DBIA.
^DD(124.2,0,'DIK')
      Nursing and Text Generator have permission to kill this node to
      uncompile cross-references on the Aggregate Term (124.2) file.
^DD(file,field,
      .01      LABEL
      0;1      Direct Global Read
      Nursing can direct global read

```


			the name of a field, and direct global read to loop through the ^DD global to get all of the fields for a particular Nursing file. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.
.3	POINTER	0;3	Direct Global Read Nursing can access this field to decode a set of codes to its external format. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.
.5	INPUT TRANSFORM	0;5,99	Direct Global Read Nursing can execute the input transform directly for its files/fields. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.
3	'HELP'-PROMPT	3;E1,245	Direct Global Read Nursing can read the 'Help'-Prompt field for its files/fields. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.
4	XECUTABLE 'HELP'	4;E1,245	Direct Global Read Nursing can read the Xecutable 'Help' for its files/fields. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.
8	READ ACCESS (OPTIONA	8;E1,245	Direct Global Write The Text Generator and Vitals/Measurements can write the Read Access (Optional) for its files/fields. file is in the appropriate package numberspace as assigned by the DBA, and field is a valid field number for file.
9	WRITE ACCESS (OPTION	9;E1,245	Direct Global Write The Text Generator and Vitals/Measurements can write the Write Access (Optional) for its files/fields. file is in the appropriate numberspace as assigned by the DBA, and field is a valid field number of file.

21	DESCRIPTION	21;0	<p>Direct Global Read</p> <p>Nursing is allowed direct global read access to the Descriptions for fields to print them out. Also included here are the direct global read references to the ^DD(file,field,21, subtree that would be necessary to read this WP field. file is a valid number in the Nursing numbers space as assigned by the DBA, and field is a valid field number for file.</p>
^DD(file,field,1,xref_ien,			
1	SET STATEMENT	1;E1,245	<p>Direct Global Read</p> <p>Nursing and the Text Generator are allowed to directly read the Cross-reference Set Statements for their package so they can be executed. file is a valid number in the appropriate number space as assigned by the DBA, field is a valid field number of file, and xref_ien is the cross-reference ien being used.</p>
2	KILL STATEMENT	2;E1,245	<p>Direct Global Read</p> <p>Nursing and the Text Generator are allowed to directly read the Cross-reference Kill Statements for their package so they can be executed. file is a valid number in the appropriate number space as assigned by the DBA, field is a valid field number of file, and xref_ien is the cross-reference ien being used.</p>
<p>Nursing and the Text Generator are allowed direct global read access to ^DD(file,field,1,xref_ien) in order to loop through the cross-reference multiple for their files, where file is in the package numberspace assigned by the DBA, field is a valid field in file, and xref_ien is the ien of the cross-reference for field in file.</p>			
^DD(file,'SB',			
<p>Nursing can direct global read the ^DD(file,"SB") cross-reference to determine the sub-files for a particular file/sub-file. file is a valid number in the Nursing numberspace as assigned by the DBA.</p>			
^DD(124.21,0,'DIK')			
<p>Vitals, Nursing & Text Generator have permission to kill off this node.</p>			
^DD(124.2,0,'DIKOLD')			
<p>Vitals, Nursing & Text Generator have permission to kill off this node.</p>			
^DD(2,0,'IX','ANURS',2,.1)			
<p>Nursing has permission to direct global kill/write this node when setting up the "ANURS" cross-reference in the Patient file. MAS has already approved this, see MailMessage #18109934.</p>			
^DD(2,.1,1,			

Nursing can direct global write the following nodes:

```

^DD(2,.1,1,xref_ien,0)="2^ANURS^MUMPS", ^DD(2,.1,1,xref_ien,1)="S
%X=X,X="NURSCPL" X ^%ZOSF("TEST") S X=%X D:$T EN1^NURSCPL",
^DD(2,.1,1,xref_ien,2)="S %X=X,X="NURSCPL" X ^%ZOSF("TEST") S
X=%X
D:$T EN2^NURSCPL". xref_ien is the next available cross-reference
ien for field .1. A direct global read is allowed on
^DD(2,.1,1,xref_ien) to loop through the xrefs of field .1. Nursing
can direct global kill the ANURS cross-reference via a direct global
kill of the ^DD(2,.1,1,xref_ien) node. xref_ien is ien of the ANURS
xref (where $P(^DD(2,.1,xref_ien,0),"^",2)="ANURS"). MAS has already
approved this use of their file, ref. msg #18109934.

```

ROUTINE:

```

1957      NAME: File Security Codes
CUSTODIAL PACKAGE: VA FILEMAN                               San Francisco
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS                Chicago
      USAGE: Private                               ENTERED: MAR 10,1997
      STATUS: Active                               EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE: 1                                       ROOT: DIC
      DESCRIPTION:                                TYPE: File
The Gen. Med. Rec. - I/O (Intake and Output), Gen. Med. Red. - Vitals
(Vitals/Measurements), Nursing Service and Text Generator packages have
permission to set the security nodes (i.e., "DD", "RD", "DEL", "LAYGO",
and "WR") in FILE 1 for those files within the package's number range.
For example: S ^DIC(210,0,"DD")="@

```

Package	Number Range
-----	-----
Intake & Output	126-126.95
Vitals/Measurements	120.5-120.57
Nursing Service	210-219.7
Text Generator	124-124.3

With the next release of each package, the installation process will allow the site to change its file security codes to match the codes as they appear in the documentation. The site can answer YES to change their file security codes to match the package documentation or NO to leave them as is.

ROUTINE:

```

4248      NAME: VDEF MESSAGE-BUILDING UTILITIES
CUSTODIAL PACKAGE: VDEF                               San Francisco
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
      USAGE: Controlled Subscri  ENTERED: AUG 24,2004
      STATUS: Active                               EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                                       ROOT:
      DESCRIPTION:                                TYPE: Routine
In the VDEF process, domain-specific routines build messages that are sent
to the HL7 system for distribution. This IA contains utilities that
perform common functions often needed by these message building routines.

```

ROUTINE: VDEFEL
 COMPONENT: SETDLMS
 VARIABLES: HL() Input

The HL() is optional. It is passed through the symbol table if it exists. HL() is set by INIT^HLFNC2().

If the HL() array is not present, default values are output.

SEPC Output Component separator. Default = ~.

SEPS Output Subcomponent separator. Default = &.

SEPR Output Repetition separator. Default = |.|

SEPE Output Escape character. Default = \.

SEPF Output Field separator. Default = ^.

Sets HL7 delimiters into individual variables based either on elements of HL() array or default HL7 delimiter values.

COMPONENT: \$\$XCN200(DUZ,source)
 VARIABLES: DUZ Input

DUZ = IEN of a New Person file entry is required.

\$\$XCN200 Output Function returns a XCN HL7 data type based on the indicated New Person file entry.

Example:
 520637377~CREAVEN~DON~~~~~VistA200

source Input Optional. The string passed will be added to the HL7 data to identify where the data originates. Default value of 'VistA200' is used if nothing is passed in this parameter.

Given an IEN from the NEW PERSON file (#200) function returns an XCN data type.

Optionally, a source of the data can be passed to the API to identify in the HL7 segment where the person information comes from.

Prerequisite: HL7 delimiters set into variables as done by SETDLMS^VDEFEL must be present.

COMPONENT: \$\$TS(date_time)
 VARIABLES: date_time Input

A date/time value in either \$H, FileMan internal, or an external format understood by FileMan's date/time utilities.

\$\$TS Output Function returns a TS data type, including time zone. No time zone is returned if no time is included in input.

Given a date/time value, function returns an HL7 TS data type.

Examples:

1. W \$\$TS^VDEFEL(\$H)
20040820182643-0400
2. W \$\$TS^VDEFEL("3140820.154420")
20140820154420-0400
3. W \$\$TS^VDEFEL("AUG 23, 2004@100923")
20040823100923-0400

```

4253      NAME: VDEF MESSAGE QUEUING
CUSTODIAL PACKAGE: VDEF
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
          USAGE: Controlled Subscri  ENTERED: SEP  1,2004
          STATUS: Active                EXPIRES:
          DURATION:                     VERSION:
          FILE:                         ROOT:
          DESCRIPTION:                  TYPE: Routine
This IA describes the API used to request that a message be created and
sent by the VDEF system. It's successful use is dependent on entries made
in the correct VDEF and HL7 files.

```

```

ROUTINE: VDEFQM
COMPONENT: $$QUEUE(event_ID,name_value_pairs,[.text_message])
VARIABLES: event_type  Input

```

A string comprised of an HL7 message type and an HL7 event type separated by a "^".

The value must be defined in the list of known VDEF message type/event type combinations in file 577.

Example: "ADT^A28"

name_value Input

A string comprised of the following format: SUBTYPE=<text>^IEN=nn where the Subtype text is a code based on the application's domain and the clinical event and the IEN is the IEN of the primary file associated with the event.

All Subtype names must be defined for this Message Type/Event Type in the VDEF EVENT DESCRIPTION file (#577). The name "SUBTYPE" is reserved for the purposes of uniquely identifying the request sub-type when more than one VDEF Event is defined for a Message Type/Event Type combination. For example, the HL7 message type/event ORU^R01 is used by multiple Vista domains to send unsolicited results. In these cases, the Subtype is used to differentiate the sending domain's unique message contents within the structure of the ORU^R01.

Example: "SUBTYPE=VTLS^IEN=12345"

text_messa Both
Acceptance or rejection text returned by the VDEF API.

\$\$QUEUE Output
Example: "Invalid event type."
1 if the HL7 request was queued up for processing
0 if it was not queued up for processing
This entry point places a request for the generation of an HL7 message into VDEF Request Queue (#579.3).

4447 NAME: ADDING ENTRIES TO VDEF FILES
CUSTODIAL PACKAGE: VDEF
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
USAGE: Controlled Subscri ENTERED: AUG 31,2004
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
This Integration Agreement allows the POSTKID^VDEFVU() API to be used in a post-init to add an entry to the VDEF Event Description file (#577) and, if necessary, to the VDEF Event Subtype (#577.4) and VDEF Custodial Package (#579.6) files. An individual call contains information for a single entry in the VDEF Event Description file. If necessary, an EVENT DESCRIPTION is added for a new entry in the VDEF Event Subtype file.

ROUTINE: VDEFVU
COMPONENT:
POSTKID(MSGTYP,EVNTYP,SUBTYP,PROTO,CUSTPKG,EXTROUT,DESC,SUBDESC)
VARIABLES: MSGTYP Input
External value for the MESSAGE TYPE field (.06) in File #577 (corresponds to the .01 of an existing entry in File #771.2).

EVNTYP Input
External value for the EVENT TYPE field (.02) in File #577 (corresponds to the .01 of an existing entry in File #779.001).

SUBTYP Input
External value for the EVENT SUBTYPE field (.03) in File #577 (corresponds to the .01 of an entry in File #577.4). If the entry does not exist in File #577.4, a new entry will be added. An application should only add new VDEF Event Subtypes after the subtype has been authorized in writing by DaIS.

PROTO Input
External value for the VISTA HL7 PROTOCOL field (.07) in File #577 (corresponds to the .01 of entry in File #101). A new entry in the Protocol file can be sent as part of the KIDS build.

CUSTPKG Input
External value for the CUSTODIAL PACKAGE field (.09) in File #577 (corresponds to the external value of the .01 of entry in

File #579.6 that, in turn, corresponds to the .01 in File #9.4). If the entry does not exist in the VDEF Custodial Package file, a new entry will be added.

EXTROUT	Input	Value of the EXTRACTION PROGRAM field (.3) in File #577, the routine that will be run at perform the extraction.
DESC	Input	Value of the EVENT DESCRIPTION field (1) in File #577.
SUBDESC	Input	Value of the EVENT DESCRIPTION field (.02) in File #577.4. The parameter is required only if a new entry is being made in the VDEF Event Subtype file.

The Calling Syntax is:

```
POSTKID^VDEFVU(MSGTYP,EVNTYP,SUBTYP,PROTO,CUSTPKG,EXTROUT,DESC
,SUBDESC)
```

Only callable from a KIDS post-init.

All input is made through the parameter list. All parameters are required except SUBDESC.

Other than the creation of the desired file entries, the only output of this call are various error messages that are passed to the KIDS system for display when a problem is detected with the call.

Example: D POSTKID^VDEFVU("ORU","R01","ALGY","VDEF ORU R01 ALLERGY VS","ADVERSE REACTION TRACKING","GMRAIAL1","ALLERGY UPDATES/INSERTS","ALLERGY UPDATE/INSERT")

```
4571      NAME: VDEF ERROR RECORDING
CUSTODIAL PACKAGE: VDEF
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
          USAGE: Controlled Subscri ENTERED: DEC 16,2004
          STATUS: Active              EXPIRES:
          DURATION:                  VERSION:
          FILE:                      ROOT:
          DESCRIPTION:                TYPE: Routine
This IA describes the API used to record an error encountered during
message building being done as the result of a request passed to the VDEF
queue. Use this API only inside of a message building routine that is
invoked by VDEF. The string passed to the API will be filed with the
queued request that encounters the error in file 579.3.

ROUTINE: VDEFREQ
COMPONENT: ERR(error_string)
VARIABLES: error_stri Input
```

This parameter should contain the error message to be filed.

This entry point places an error message into file #579.3.

External Relations

¹4832 NAME: COMMON FILES
CUSTODIAL PACKAGE: KERNEL
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
 GMV_VitalsViewEnter.dll and GMV_VitalsViewEnter.hlp
 and GMV_VitalsViewEnter.cnt
 USAGE: Controlled Subscri ENTERED: JAN 5,2006
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Other
Packages may place their common files under
Program Files\Vista\Common Files\
KEYWORDS: DLL
 COMMON FILES
 GMV_VitalsViewEnter.dll
 GMV_VitalsViewEnter.hlp
 GMV_VitalsViewEnter.cnt

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement

DBIA's where the Vitals/Measurements package is the custodian:

```

78      NAME: DBIA78
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS           Chicago
SUBSCRIBING PACKAGE: HEALTH SUMMARY                 Salt Lake City
      USAGE: Private      ENTERED: FEB  5,1991
      STATUS: Active      EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                ROOT:
      DESCRIPTION:          TYPE: Other
The Vitals Package developers have granted the Health Summary team
permission to add the application group "GMTS" to ^DIC(120.51, when file
120.51, the Vital Type file, exists.

```

ROUTINE:

```

1120     NAME: GMRVUTL
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS           Chicago
SUBSCRIBING PACKAGE:
      USAGE: Supported    ENTERED: JAN 18,1995
      STATUS: Active      EXPIRES:
      DURATION:           VERSION:
      FILE:                ROOT:
      DESCRIPTION:          TYPE: Routine
User can extract the latest record for a desired vital type from the
Vital/Measurement database for a particular patient by calling
EN6^GMRVUTL.

```

Input Variables:

DFN = The internal entry number in the Patient file (#2) for the patient data that is to be retrieved.

GMRVSTR = The abbreviation of the vital/measurement desired from the Vital Type file (#120.51). For example:

S GMRVSTR="T",DFN=5 D EN6^GMRVUTL

"T" is the abbreviation of temperature. GMRVSTR will be killed.

Output Variable:

X is set to the entire zeroth node for the entry in question in the Vital/Measurement file (#120.5), for example, ^GMR(120.5,IEN,0), where IEN is the subscript in the file that contains the data. The following shows the format of value contained in X.

X=2920728.06^5^2^2920728.13482^42^2098^6^101.1

```

ROUTINE: GMRVUTL
COMPONENT: EN6
VARIABLES: DFN      Input      The internal entry number in the Patient
                                file (#2).
                                GMRVSTR      Input      The abbreviation of the vital/measurement

```

desired from the Vital Type file (#120.51).

X Output The entire zeroth node for the entry in question in the Vital/Measurement file (#120.5).

User can extract the latest record for a desired vital type from the Vital/ Measurement database for a particular patient.

1381 NAME: GMRV VITAL MEASUREMENT
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 Nursing references fields .01, 2.1 and 2. It also
 uses the 'AA' x-ref.
 ORDER ENTRY/RESULTS REPORTING Salt Lake City
 OE/RR references fields #.01, 2.1, 2, .03, .05, and
 .06. In addition, it utilizes the 'AA' x-ref.
 PHARMACY BENEFITS MANAGEMENT
 USAGE: Controlled Subscri ENTERED: NOV 7,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 120.5 ROOT: GMR(120.5,
 DESCRIPTION: TYPE: File
 This DBIA authorizes access to the following fields in the GMRV Vital
 Measurement (120.5) file.
 ^GMR(120.5,D0,0)
 .01 DATE/TIME VITALS TAK 0;1 Direct Global Read
 .03 VITAL TYPE 0;3 Direct Global Read
 .05 HOSPITAL LOCATION 0;5 Direct Global Read
 .06 ENTERED BY 0;6 Direct Global Read
 1.2 RATE 0;8 Direct Global Read
 ^GMR(120.5,D0,2)
 2 ENTERED IN ERROR 2;1 Direct Global Read
 ^GMR(120.5,'AA',
 Direct global read on the "AA" cross-reference.
 ^GMR(120.5,5,
 .01 QUALIFIER 0;1 Direct Global Read

ROUTINE:

1382 NAME: GMRV VITAL TYPE
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 PHARMACY BENEFITS MANAGEMENT
 USAGE: Controlled Subscri ENTERED: NOV 7,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 120.51 ROOT: GMRD(120.51,
 DESCRIPTION: TYPE: File
 Nursing has permission to access the GMRV Vital Type (120.51) file.
 ^GMRD(120.51,D0,0)
 .01 NAME 0;1 Direct Global Read
 ^GMRD(120.51,'C',
 Direct global read on the "C" cross-reference.

ROUTINE:

1431 NAME: GMRVDS0
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: NOV 20,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Nursing can access the GMRVDS0 routine as described in this DBIA.

ROUTINE: GMRVDS0
 COMPONENT: EN2
 VARIABLES: This entry point allows user to print latest vital signs
 for a patient if the patient IEN is unknown.

1439 NAME: GMRVDS1
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: NOV 21,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Nursing can access the following entry point in the GMRVDS1 routine as
 described in this DBIA.

ROUTINE: GMRVDS1
 COMPONENT: EN3
 VARIABLES: DFN Input Patient IEN.
 TMP Input ^TMP(\$J,patient room-bed,patient
 name,DFN) global contains the patients
 for the report.
 GMRVWLO Input Free text version of Nursing ward
 location.
 This entry point allows user to print the latest vital
 signs by a Nursing location.

1440 NAME: GMRVED0
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: NOV 22,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Nursing can access the following entry points described in this DBIA for
 the GMRVED0 routine.

ROUTINE: GMRVED0

External Relations

COMPONENT: EN3
VARIABLES: DFN Input Patient IEN.
GMROUT Both This variable indicates whether the user abnormally exited the input process. It is passed in with a value of 0.
GNUROP Input This variable is passed in with a value of 1 to indicates that the edit process is requested by the Nursing Service.
GMRVIDT Input The date/time the vitals/measurements were taken.
GMRVHLOC Input Hospital Location file (44) pointer.
GMRENTY Input The type of vitals/measurements to edit.
GMRSTR Input The string of which vitals/measurements to edit, for example, "T;P;R;BP;WT;".
This entry point allows user to enter vitals/measurements for a patient.
COMPONENT: Q
VARIABLES: This entry point is called to clean up the variables used by the GMRVED0.

1441 NAME: GMRVEE0
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private ENTERED: NOV 22,1995
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry point described in this DBIA for the GMRVEE0 routine.

ROUTINE: GMRVEE0
COMPONENT: EN2
VARIABLES: DFN Input Patient IEN.
This entry point allows user to edit a vital/measurement entered in error.

1442 NAME: GMRVER0
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private ENTERED: NOV 22,1995
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry point described in this DBIA for the GMRVER0 routine.

* * * * *

```
ROUTINE: GMRVSAS0
COMPONENT: EN1
VARIABLES: GMRVX      Input

This variable is passed in with a value
of "T", "P", "R", "B" or "BP" as vital
type code.

GMRVX(0)      Input

This variable contains vital data for the
screening.

GMRVX(1)      Output

If the output value equals 0 - vital data
within normal range. If the output value
equals 1 - abnormal value defined in the
GMRV Vitals Parameters file (125.57).

This entry point is called for checking the abnormal
vital/measurement.
```

* * * * *

12/17/2003: Modified this IA to add the EN3 entry point.

ROUTINE:	GMRVSCO		
COMPONENT:	DATE		
VARIABLES:	GMRROUT	Both	This variable indicates whether the user abnormally exited the call. It is passed in with a value of 0.
	GMRVSDT	Output	Start date/time of the date range.

External Relations

	GMRVFDT	Output	End date/time of the date range. This entry point allows user to define start date/time and end date/time for a date range.
COMPONENT:	EN5		
VARIABLES:	DFN	Input	Patient IEN.
	GMRX	Input	Patient admission date/time.
	GMROUT	Both	This variable indicates whether the user abnormally exited the report process. It is passed in with a value of 0.
	GMRVSDT	Input	Start date/time of the date range.
	GMRVFDT	Input	End date/time of the date range.
	GMRPG	Input	This report page count is initialized with a value of 0. This entry point allows user to print cumulative vitals/measurements for a patient over a given date range.
COMPONENT:	EN3		
VARIABLES:	DFN	Input	Patient internal entry number (FILE 2). (Required)
	GMRVSDT	Input	Start date/time of the date range in FileMan internal format. (Required)
	GMRVFDT	Input	End date/time of the date range in FileMan internal format. (Required)
			This entry point displays the patient cumulative report to the current output device.

D EN3^GMRVSC0(DFN,GMRVSDT,GMRVFDT)

1445 NAME: GMRVSR0
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: NOV 22,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Nursing can access the following entry points described in this DBIA for the GMRVSR0 routine.

ROUTINE:	GMRVSR0		
COMPONENT:	EN5		
VARIABLES:	DFN	Input	Patient IEN.
	GFLAG	Input	This variable is passed in with a value of 0 to indicate that the report is requested by the Nursing Service.
	GMRDATE	Input	This variable is passed in with a value

of "start date/time^end date/time^type of graph".

GMRVWLO Input Nursing location free text.

User can use this entry point to print V/M Graphic Reports, Vital Signs Record, B/P Plotting Chart or Weight Chart.

COMPONENT: Q2

VARIABLES: This entry point is called to clean up the variables used for the graphic reports.

1446 NAME: GMRVUT0

CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago

SUBSCRIBING PACKAGE: NURSING SERVICE Chicago

HEALTH SUMMARY Salt Lake City

ORDER ENTRY/RESULTS REPORTING Salt Lake City

TEXT INTEGRATION UTILITIES Salt Lake City

PCE PATIENT CARE ENCOUNTER Salt Lake City

CLINICAL REMINDERS Salt Lake City

VBECS

My HealtheVet

LAB SERVICE

CARE MANAGEMENT

BAR CODE MED ADMIN

CLINICAL CASE REGISTRIES

USAGE: Controlled Subscri ENTERED: NOV 22,1995

STATUS: Active EXPIRES:

DURATION: Till Otherwise Agr VERSION:

FILE: ROOT:

DESCRIPTION: TYPE: Routine

This routine will return vital/measurement for a patient over a given date/time range.

ROUTINE: GMRVUT0

COMPONENT: EN1

VARIABLES: DFN Input Patient IEN.

GMRVSTR Input Types of vitals/measurements desired. Use the abbreviations found in the GMRV Vital Type file (120.51). For multiple vitals, use the ; as a delimiter, for example, "T;P;R;BP;".

GMRVSTR(0) Input This variable specifies which vital/measurement data will be returned. The variable has four pieces, A^B^C^D, where:

A=Start date/time (FM format) of vital/measurment data to be returned.

B=End date/time (FM format) of vital/measurement data to be returned.

C=Number of occurences (numeric) of vital/measurement data to be returned.

D=Parameter to govern sort order of return array. The value of this piece can either be 0 or 1. If it is 0, the return data will be sorted

by type, then by date/time entered.
 If it is 1, the return data will
 be sorted by date/time entered, then
 by type. See output variable
 ^UTILITY for more information.

UTILITY Output

The output array is ^UTILITY(\$J,"GMRVD").
 The subscripts of this array are governed
 by the 4th piece of the input variable
 GMRVSTR(0).

If \$P(GMRVSTR(0),"^",4) is true, the
 return array will be:
 ^UTILITY(\$J,"GMRVD",RDT,TYP,IEN)=DATA

If \$P(GMRVSTR(0),"^",4) is false, the
 return array will be:
 ^UTILITY(\$J,"GMRVD",TYP,RDT,IEN)=DATA

In the above, the following abbreviations
 translate as follows:

 RDT = Reverse date/time
 vital/measurement was taken in format
 9999999-(Date/time taken).

 TYP = Abbreviation of
 vital/measurement type from GMRVSTR
 variable.

 IEN = Entry in GMRV Vital/Measurement
 (120.5) file of this data.

 DATA = Data about this
 vital/measurement with the following
 format,

VDT^DFN^ITYP^EDT^LOC^USER^ISITE^RATE^IQUAL^S
 ITE^QUAL^ABN^UNIT^,

BMI^LO2^PO2^AQUAL
 where:

 VDT = Date/time
 vital/measurement taken (FM format)

 DFN = IEN for patient in
 Patient file.

 ITYP = IEN for vital type in
 GMRV Vital Type file.

 EDT = Date/time
 vital/measurement entered (FM format)

 LOC = IEN for patient location
 in Hospital Location file.

 USER = User who entered data;
 IEN in New Person file.

 ISITE = IEN for site in GMRV
 Vital Site file.

 RATE = Rate for this
 vital/measurement (alphanumeric).

 IQUAL = IEN for quality in GMRV
 Vital Quality file.

 SITE = Site of

vital/measurement (free text).
 QUAL = Quality of
 vital/measurement (free text).
 ABN = Flag indicating whether
 vital/measurement is abnormal.
 * indicates abnormal,
 null indicates normal.
 UNIT = Units of measurement for
 rate when appropriate, e.g.
 Centigrade for
 temperature, Kg for weight and centimeter
 for height.
 BMI = Body Mass Index
 (numeric);value calculated from height;
 (Applies only to the
 vital type WT (Weight))
 LO2 = Liters/Minute of
 supplemental O2 (numeric).
 (Applies only to the
 vital type PO2 (Pulse Oximetry)).
 PO2 = % of supplemental O2
 (numeric).
 (Applies only to the
 vital type PO2 (Pulse Oximetry)).
 AQUAL = All qualifiers (free
 text);
 Each qualifier is
 separated by a ;.

GMRVSTR('L Input

This is an optional variable. It will be
 set to an ^ delimited list of Hospital
 Location Types, see Type (2) field of
 Hospital Location (44) file for a list of
 types. The first piece and last piece of
 the list must be null, i.e., ^C^M^.

User can use this entry to gather patient vital/measurement
 data.

1447 NAME: GMRVUT2
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: NOV 22,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Nursing can access the following entry point described in this DBIA for
 the GMRVUT2 routine.

ROUTINE: GMRVUT2
 COMPONENT: SETU2
 VARIABLES: DFN Input Patient IEN.
 GMRVSTR Input
 GMRVSTR(0) is passed in with a value of
 "^1^1". GMRVSTR("T") is passed in with
 the abbreviation "WT" found in the GMRV
 Vital Type file (120.51). GMRVSTR("IEN")

is passed in with a GMRV Vital
Measurement file (120.5) pointer.
GMRVSTR("R") is passed in with the
date/time the weight was measured.

UTILITY Output

The output array ^UTILITY(\$J,"GMRD")
contains the desired patient weight.

This entry is used to extract the last weight measurement
for a patient.

1448 NAME: GMRVVS0
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago

USAGE: Private ENTERED: NOV 22,1995
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:

FILE: ROOT:
DESCRIPTION: TYPE: Routine

Nursing can access the following entry points described in this DBIA for
the GMRVVS0 routine.

ROUTINE: GMRVVS0

COMPONENT: EN1

VARIABLES: DFN Input

Patient IEN.

GFLAG Input

This variable is passed in with a value
of 0 to indicate that the report is
requested by the Nursing Service.

GMRROUT Both

This variable indicates whether the user
abnormally exited the report process. It
is passed in with a value of 0.

GMRNUR Input

This variable is set to a value of 0 to
indicate that the proces is requested by
the Nursing Service.

GMRSTRT Input

Start date/time for the report.

GMRFIN Input

End date/time for the report.

This entry point is used to print the Expanded SF 511
Report (Itemized I/O).

COMPONENT: DATE

VARIABLES: GMRROUT Both

This variable indicates whether the user
abnormally exited the process. It is
passed in with a value of 0.

GMRSTRT Output

Start date/time user entered.

GMRFIN Output

End date/time user entered.

User can use this entry to set up start date/time and end
date/time for the report desired.

COMPONENT: Q2

VARIABLES: This entry point is called to clean up the variables used
by the GMRVVS0 routine.

¹1589 NAME: GMRVPCE0
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: AUTOMATED INFO COLLECTION SYS Albany
 Only are requesting use of RATECHK and HELP entry
 points.
 PCE PATIENT CARE ENCOUNTER Salt Lake City
 Only are requesting use of STORE and VALIDATE entry
 points.
 ORDER ENTRY/RESULTS REPORTING Salt Lake City
 BAR CODE MED ADMIN
 USAGE: Controlled Subscri ENTERED: AUG 8,1996
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 The GMRVPCE0 routine can be used to enter data into the
 Vitals/Measurements package (using PCE Device Interface Specification),
 validate measurement data (which uses PCE Device Interface Specification),
 print help for a particular measurement, or validate a particular
 measurement.

ROUTINE: GMRVPCE0
 COMPONENT: VALIDATE(PXCA)
 VARIABLES: PXCA Both

PXCA is the the array which contains measurement data to be validated. The array is defined in the PCE Device Interface Specification and must be passed by reference, i.e., .PXCA. The nodes in the array that are used are described below, but their definitions can be found in the PCE Device Interface Specification. PXCA("ENCOUNTER"), PXCA("VITALS") and PXCA("SOURCE") are used by VALIDATE and are input variables. PXCA("ERROR") or PXCA("WARNING") may be returned if data is invalid or duplicate.

Validate measurement data which is in format described in PCE Device Interface Specification. Returns PXCA("ERROR") if data not valid.

COMPONENT: STORE(PXCA)
 VARIABLES: PXCA Both

PXCA is the the array which contains measurement data to be validated. The array is defined in the PCE Device Interface Specification and must be passed by reference, i.e., .PXCA. The nodes in the array that are used are described below, but their definitions can be found in the PCE Device Interface Specification. PXCA("ENCOUNTER"), PXCA("VITALS") and PXCA("SOURCE") are used by STORE and are input variables. PXCA("ERROR") or PXCA("WARNING") may be returned if data is invalid or duplicate.

¹ April 2006 Patch GMRV*5.0*3 Removed Integration Agreement 1536 "Deleting Options."

External Relations

This component will validate and store data in the Vitals/Measurements database which is in the format described in the PCE Device Interface Specification. It will return PXCA("ERROR") if there was a problem with the data.

COMPONENT: HELP(TYPE,HLPARRAY)

VARIABLES: TYPE Input

Type of measurement. This is a required variable and is the abbreviation for the measurement type found in the PCE Device Interface Specification.

HLPARRAY Input

This is an optional variable describing location where the help will be found after the procedure call. This is a closed array reference, and if not specified, data will be returned in ^TMP(\$J,"GMRVHELP").

TMP(\$J,'GM Output

Either this variable or the array defined by HLPARRAY will contain the help for this measurement type. The format is ^TMP(\$J,"GMRVHELP",X) where X is a number between 1 and the number of lines of help text.

This procedure will return help for a particular measurement type.

COMPONENT: \$\$RATECHK(TYPE,RATE,UNIT)

VARIABLES: TYPE Input

Type of measurement. This is a required variable and is the abbreviation for the measurement type found in the PCE Device Interface Specification.

RATE Input

The rate to be validated for this measurement type. This variable is required.

UNIT Input

This is an optional variable which will contain the units of measurement for RATE.

\$\$RATECHK Output

The function value will either be 1, rate is valid, or 0 rate is not valid.

This function will validate a rate for a particular measurement type.

COMPONENT: \$\$VMTYPES(TYPE)

VARIABLES: TYPES Input

Input as the type of vital.

RESULT Output

Result of extrinsic function (\$\$VMTYPES(TYPE)) is set to 1 if valid or 0 otherwise.

Returns a 1 if the type of vital is valid and 0 otherwise.

1914 NAME: GMRVALL0
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: NURSING SERVICE

Chicago
Chicago

```

      USAGE: Private          ENTERED: JAN 29,1997
      STATUS: Active          EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                   ROOT:
      DESCRIPTION:            TYPE: Routine
Nursing can access the following entry point described in this DBIA for
GMRVED0 routine.

```

ROUTINE: GMRVALL0

COMPONENT: LIST

VARIABLES: GNUROP Input

This variable is passed in with a value of 1 to indicate that the edit process is requested by the Nursing Service.

GMROUT Both

This variable indicates whether the user abnormally exited the vitals/measurements selection. It is passed in with a value of 0.

GMRENTY	Output
---------	--------

The type of vitals/measurements to edit.

GMRSTR	Output
--------	--------

The string of which vitals/measurements to edit, for example, "T;P;R;BP;".

This entry point displays the vitals/measurements for the User Configurable Combination option. This option allows users to select types of vitals/measurements to edit.

* * * * *

1938 NAME: GMRVSITE
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago

USAGE: Private

ENTERED: FEB 19,1997

STATUS: Active

EXPIRES:

DURATION: Till Otherwise Agr VERSION:

VERSION:

FILE:

ROOT:

DESCRIPTION:

TYPE: Routine

The Nursing package can use the DEFAULT and CHAR entry points in the GMRVSITE routine of the Vitals/Measurements package.

ROUTINE: GMRVSITE

COMPONENT: DEFAULT

VARIABLES: The Change Default Qualifiers for Temp./Pulse [NURCPE-VIT VMQUALITY] option can call this entry point to change default qualifiers for temperature and pulse entries in the GMRV VITAL CATEGORY (#120.53) file.

COMPONENT: CHAR

VARIABLES: The Enter/Edit Vitals Qualifiers [NURCPE-VIT VMSITE] option can call this entry point to configure the GMRV VITAL QUALIFIER (#120.52) file entries.

* * * * *

1940 NAME: GMRVCAQU
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago

¹ April 2006 Patch GMRV*5.0*3 Removed Integration Agreements: 1927 “Vitals File Access for CPRS/OERR.GMR 120.5” and 1928 “Vitals File Access for CPRS/OERR GMRD 120.51”

External Relations

SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private ENTERED: FEB 19,1997
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
The Nursing package can call EN1^GMRVCAQU in the Vitals/Measurements package.

ROUTINE: GMRVCAQU
COMPONENT: EN1
VARIABLES: The Display Vitals Category/Qualifier Table [NURCPE-VIT CAT/QUAL TABLE] option can call this entry point to display a table of categories and qualifiers for various vitals/measurements (e.g., blood pressure).

2087 NAME: DBIA2087
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: PCE PATIENT CARE ENCOUNTER Albany
USAGE: Private ENTERED: AUG 26,1997
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 120.5 ROOT: GMR(120.5,
DESCRIPTION: TYPE: File
This is used in the Caseload Profile report. It is looking for blood pressures above 159/90 (either value high).
^GMR(120.5,D0,0)
.01 DATE/TIME VITALS TAK 0;1 Direct Global Read
.03 VITAL TYPE 0;3 Direct Global Read
1.2 RATE 0;8 Direct Global Read
^GMR(120.5,C,
This is the "C" cross reference. Direct Global Read.
ROUTINE:

3112 NAME: DBIA3112
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: CLINICAL REMINDERS Salt Lake City
USAGE: Private ENTERED: MAY 17,2000
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 120.51 ROOT: GMRD(120.51
DESCRIPTION: TYPE: File
GMRV VITAL TYPE entries are used as findings in Clinical Reminders. Therefore Clinical Reminders needs to point to GMRV VITAL TYPE entries. It also needs the PCE ABBREVIATION for reminder dialogs.
^GMRD(120.51,D0,0
.01 NAME 0;1 Pointed to
7 PCE ABBREVIATION 0;7 Read w/Fileman
ROUTINE:

¹3647 NAME: GMVPXRM
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: CLINICAL REMINDERS Salt Lake City
 USAGE: Controlled Subscri ENTERED: NOV 7,2003
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine

ROUTINE: GMVPXRM
 COMPONENT: EN(.GMVDATA,GMVIEN,GMVIB)
 VARIABLES: .GMVDATA Both

The first variable in the parameter list.
 It specifies the name of the array to
 return the information in and is passed
 by reference. This variable is required.

GMVIEN Input

The second variable in the parameter
 list. It is the internal entry number of
 the FILE 120.5 entry. It is required.

GMVIB Input

The third variable in the parameter list.
 It is optional.

Use an uppercase letter I (i.e., "I") to
 return only the internal values of the
 entry.

Use an uppercase letter B (i.e., "B") to
 return both the internal and external
 values of the entry. "B" is the default.
 If GMVIB is not "I" or "B", then "B" is
 used.

This entry point returns either the internal or both the
 internal and external values (pieces 1 and 2 respectively)
 for the following fields of the FILE 120.5 entry selected:

```
GMVDATA(1)=.01 (DATE/TIME VITALS TAKEN)
GMVDATA(2)=.02 (PATIENT)
GMVDATA(3)=.03 (VITAL TYPE)
GMVDATA(4)=.04 (DATE/TIME VITALS ENTERED)
GMVDATA(5)=.05 (HOSPITAL LOCATION)
GMVDATA(6)=.06 (ENTERED BY)
GMVDATA(7)=1.2 (RATE)
GMVDATA(8)=1.4 (SUPPLEMENTAL O2)
GMVDATA(9)=2 (ENTERED IN ERROR)
GMVDATA(10)=3 (ERROR ENTERED BY)
GMVDATA(11,n)=4 (REASON ENTERED IN ERROR) <--multiple
GMVDATA(12,n)=5 (QUALIFIER) <--multiple
```

If the lookup failed then: GMVDATA(1)=-1^error text.

This is an example of returning internal values only. The
 array name is GMVDATA which is passed by reference. The
 record number is 394.

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement 3647. Removed Integration Agreements:
 2940 "OR/RR use of GMRD" and 3450 "Vitals Type Pointer."

```
> D EN^GMVPXRM(.GMVDATA,394,"I")
> ZW GMVDATA
> GMVDATA(1)=3020805.2324
> GMVDATA(2)=67
> GMVDATA(3)=2
> GMVDATA(4)=3020805.232531
> GMVDATA(5)=1
> GMVDATA(6)=547
> GMVDATA(7)=100.1
> GMVDATA(8)=
> GMVDATA(9)=1
> GMVDATA(10)=547
> GMVDATA(11,1)=4
> GMVDATA(12,1)=6
```

This is an example of returning internal and external values. The array name is GMVDATA which is passed by reference. The record number is 394.

```
> D EN^GMVPXRM(.GMVDATA,394,"B")
> GMVDATA(1)=3020805.2324^AUG 05, 2002@23:24
> GMVDATA(2)=67^SMITH,GEORGE
> GMVDATA(3)=2^TEMPERATURE
> GMVDATA(4)=3020805.232531^AUG 05, 2002@23:25:31
> GMVDATA(5)=1^2AS
> GMVDATA(6)=547^TAYLOR,FRANK
> GMVDATA(7)=100.1^100.1
> GMVDATA(8)=^
> GMVDATA(9)=1^YES
> GMVDATA(10)=547^TAYLOR,FRANK
> GMVDATA(11,1)=4^INVALID RECORD
> GMVDATA(12,1)=6^ORAL
```

COMPONENT: VITALS

VARIABLES: This entry point is for use by the Clinical Reminders package to re-index the ACR cross-reference nodes for FILE 120.5.

- a) This entry point kills the ACR cross-reference nodes for FILE 120.5
i.e., ^PXRMINDEX(120.5).
- b) Re-builds the ACR cross-reference nodes.
- c) Calls the Clinical Reminders package to generate a mail message summarizing the rebuilding of the ACR cross-reference.

There are no input or output variables for this entry point.

```
13835 NAME: PXR DIRECT READ OF GMRV VITAL MEASUREMENT FILE
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: CLINICAL REMINDERS Salt Lake City
USAGE: Private ENTERED: NOV 5,2002
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 120.5 ROOT: GMR(120.5,
DESCRIPTION: TYPE: File
```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

Clinical Reminders requests the ability to do a global read on the GMRV Vital Measurement File, specifically, ^GMR(120.5. using multiple fields from the Zero Node to populate the new Clinical Reminders Index.

```

^GMR(120.5,
.01      DATE/TIME VITALS TAK 0;1      Direct Global Read
.02      PATIENT              0;2      Direct Global Read
.03      VITAL TYPE           0;3      Direct Global Read
2        ENTERED IN ERROR     2;1      Direct Global Read
^GMR(120.5,0
4        NUMBER OF RECORDS    0;4      Direct Global Read
This piece is the fourth piece
of the header node.

```

ROUTINE:

```

13996      NAME: GMV ADD VM
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS                      Chicago
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING             Salt Lake City
      USAGE: Private                      ENTERED: NOV 30,2005
      STATUS: Active                      EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                               ROOT:
      DESCRIPTION:                       TYPE: Remote Procedure
NAME: GMV ADD VM
TAG: EN1
ROUTINE: GMVDCSAV
RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
WORD WRAP ON: TRUE
DESCRIPTION:
This remote procedure call is used to enter a new Vital/Measurement
record in the GMRV Vital Measurement file (#120.5).

```

This remote procedure call is documented in Integration Agreement 3996.

```

INPUT PARAMETER: GMRVDATA
PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 255
REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
This variable contains the data needed to create a Vital/Measurement
record in the GMRV Vital Measurement (#120.5) file. The values are parsed
out of the GMRVDATA variable and filed.

```

GMRVDATA has the following data:
 piece1^piece2^piece3^piece4^piece5

where:

```

piece1 = date/time in FileMan internal format
piece2 = patient number from FILE 2 (i.e., DFN)
piece3 = vital type, a semi-colon, the reading, a semi-colon, and
        oxygen flow rate and percentage values [optional] (e.g.,
        21;99;1 l/min 90%)

```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

External Relations

piece4 = hospital location (FILE 44) pointer value
piece5 = user number from FILE 200 (i.e., DUZ), an asterisk, and the
qualifier (File 120.52) internal entry numbers separated by
colons (e.g., 547*50:65)
RETURN PARAMETER DESCRIPTION:
RESULT does not return a value.

The data is filed in the GMRV VITAL MEASUREMENT (#120.5) file.

Example:

```
> S GMRVDATA="3051011.1635^134^1;120/80;^67^87*2:38:50:75"  
> D EN1^GMVDCSAV(.RESULT,GMRVDATA)
```

ROUTINE: EN1 GMVDCSAV

¹ 4251	NAME: GMVDCEXT	
CUSTODIAL PACKAGE:	GEN. MED. REC. - VITALS	Chicago
SUBSCRIBING PACKAGE:	BAR CODE MED ADMIN	Birmingham
USAGE:	Private	ENTERED: SEP 29, 2003
STATUS:	Active	EXPIRES:
DURATION:	Till Otherwise Agr	VERSION:
FILE:		ROOT:
DESCRIPTION:		TYPE: Routine

ROUTINE: GMVDCEXT
COMPONENT:
EN1 (RESULT, GMVDFN, GMVFMF, GMVABR, GMVALL, GMVBEG, GMVEND, GMVMSYS, GMVE
ER) VARIABLES: RESULT Both

The name of the array to return data in
(Required).

The return array is:
Array(0)=OK or ERROR

Array(n)=piece1^piece2^piece3^piece4^piece5^
piece6^piece7^piece8^piece9
^piece10^piece11^piece12

where:

n and piece 1 = the internal entry
number of the FILE 120.5 entry.
piece2 = Date/time of the reading
(FileMan internal format).
piece3 = Patient DFN (FILE 2).
piece4 = Vital Type (FILE 120.51)
value. Can be IEN or Abbreviation or
Full Name.
piece5 = Date/time the entry was
created (FileMan internal format).
piece6 = Hospital Location internal
entry number (FILE 44).

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement 4251. Removed Integration Agreement 1536
"OR Call to GMRVSC0."

piece7 = FILE 200 value (i.e., DUZ) of the person who created the entry.
 piece8 = Value of the reading. Can be numeric or alphanumeric.
 piece9 = Entered-In-Error indicator. 1 (Yes) or null.
 piece10 = FILE 200 value (i.e., DUZ) of the person who marked the record as Entered-In-Error.
 piece11 = Qualifier (FILE 120.52) values separated by a semi-colon (;). Can be IEN or Abbreviation or Full Name of the qualifier.
 piece12 = Entered-In-Error reasons separated by a semi-colon (;). Can be IEN or Full Name of the reason.

The input parameters are in the following order:

D

```
EN1 (RESULT,GMVDFN,GMVFMt,GMVABR,GMVALL,GMVBE
G,GMVEND,GMVMSYS,GMVEER)
```

Example of a successful return of data:

```
S RESULT="TEST"
D
```

```
EN1^GMVDCEXT (RESULT,49,3,"^BP^PN^P^R^T^",1,3
030901,"NOW","C",1)
```

```
ZW TEST
TEST(0)=OK
TEST(7317)=7317^3030918.111503^49^BLOOD
PRESSURE^3030918.111653
^87^547^130/70^^^L
ARM;CUFF;SITTING;ADULT^^
```

```
TEST(7319)=7319^3030918.111503^49^PAIN^30309
18.111653^87^547^0^^^
```

```
TEST(7320)=7320^3030918.111503^49^PULSE^3030
918.111653^87^547^20^^^
```

```
TEST(7321)=7321^3030918.111503^49^RESPIRATIO
N^3030918.111653^87^547^50^^
```

^^

```
TEST(7322)=7322^3030918.111503^49^TEMPERATUR
E^3030918.111653^87^547^98.7^
```

^^^^

External Relations

TEST(7324)=7324^3030917.09^49^PAIN^3030918.1
11846^87^547^4^1^547^^

INCORRECT READING^
TEST(7325)=7325^3030915.08^49^BLOOD
PRESSURE^3030918.115509
^87^547^120/82^^^L
ARM;CUFF;SITTING;ADULT^^

TEST(7326)=7326^3030915.08^49^PAIN^3030918.1
15509^87^547^1^^^^^

TEST(7327)=7327^3030915.08^49^PULSE^3030918.
115509^87^547^25^^^SITTING;

LEFT^^

TEST(7328)=7328^3030915.08^49^RESPIRATION^30
30918.115509^87^547^35^^^

SPONTANEOUS;SITTING^^

TEST(7329)=7329^3030915.08^49^TEMPERATURE^30
30918.115509^87^547^99^^^^^

Example of failed return of data:

S RESULT="TEST"
D

EN1^GMVDCEXT(RESET,"FT",3,"^BP^PN^P^R^T^",1
,3030901,"NOW","C",1)

		ZW TEST
		TEST(0)=ERROR
		TEST(1)=ERROR: Missing or invalid
		Patient parameter
GMVDFN	Input	The patient's internal entry number (i.e., DFN) in FILE 2 (Required).
GMVFMT	Input	A code to indicate how the data should be formatted for Vital Type, Qualifiers and Entered-In-Error Reasons (Optional).
		1 means return internal entry number (IEN) of data (default).
		2 means return abbreviation of data.
		3 means return full name of data.
GMVABR	Input	The abbreviations of the vital types to return separated by up-arrows (Optional).
		For example, "^T^P^R^" will return Temperature, Pulse and Respiration.

If no value is entered, then all Vital Types are returned (i.e., "[^]T[^]P[^]R[^]PO2[^]BP[^]HT[^]WT[^]CVP[^]CG[^]PN[^]").

Also, "~ALL~" will return all Vital Types (i.e., "[^]T[^]P[^]R[^]PO2[^]BP[^]HT[^]WT[^]CVP[^]CG[^]PN[^]").

GMVALL Input A code to indicate how much data is returned (Optional).

0 means return the most recent entry (Default).

1 means return all data in the date range specified.

GMVBEG Input The date/time, in FileMan internal format, to begin the search. FileMan date/time values (e.g., NOW, T, T-7) can be used.

GMVEND Input If GMVALL is 0, then this value is ignored.

The date/time, in FileMan internal format, to end the search. FileMan date/time values (e.g., NOW, T, T-7) can be used.

GMVMSYS Input If GMVALL is 0, then this value is ignored.

A code to indicate what measurement system to use for the return values (Optional).

M means Metric.

C means US Customary (Default).

GMVEER Input A code to indicate if entered-in-error values should be returned (Optional).

0 means No (Default).

1 means Yes.

This entry point returns patient vitals data from the GMRV VITAL MEASUREMENT (#120.5) file based on the input parameters selected.

¹ 4350	NAME: GMV ALLERGY	
CUSTODIAL PACKAGE:	GEN. MED. REC. - VITALS	Chicago
SUBSCRIBING PACKAGE:	ORDER ENTRY/RESULTS REPORTING	Salt Lake City
USAGE: Private	ENTERED: NOV 30,2005	

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

External Relations

STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Remote Procedure
NAME: GMV ALLERGY
TAG: ALLERGY
ROUTINE: GMVUTL3
RETURN VALUE TYPE: ARRAY
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
WORD WRAP ON: TRUE
DESCRIPTION:
This remote procedure call retrieves the patient's allergy information.

This remote procedure call is documented in Integration Agreement 4350.
INPUT PARAMETER: DFN
PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 30
REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
DFN is a pointer to the PATIENT file (#2).
RETURN PARAMETER DESCRIPTION:
Returns the patient allergy information in the array specified.

The result array returns:
RESULT(n)=This patient has the following allergy(ies):
 (n+1)=piecel

where piecel = the allergy name
 n = sequential number starting at 1.

If there is no data, then the following is returned:
RESULT(1)=No Allergy Assessment

Example:

```
> S DFN=134
> D ALLERGY^GMVUTL3(.RESULT,DFN) ZW RESULT
> RESULT(1)="This patient has the following allergy(ies): "
> RESULT(2)="PENICILLIN"
```

ROUTINE: ALLERGY GMVUTL3

¹ 4353	NAME: GMV CONVERT DATE	
CUSTODIAL PACKAGE:	GEN. MED. REC. - VITALS	Chicago
SUBSCRIBING PACKAGE:	ORDER ENTRY/RESULTS REPORTING	Salt Lake City
USAGE:	Private	ENTERED: NOV 30,2005
STATUS:	Active	EXPIRES:
DURATION:	Till Otherwise Agr	VERSION:
FILE:		ROOT:
DESCRIPTION:		TYPE: Remote Procedure
NAME:	GMV CONVERT DATE	
TAG:	GETDT	
ROUTINE:	GMVGETQ	

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement 4353. Removed Integration Agreements: 4351 "GMV Check Device" and 4352 "GMV Clinic Pt."

RETURN VALUE TYPE: SINGLE VALUE

AVAILABILITY: SUBSCRIPTION

INACTIVE: ACTIVE

WORD WRAP ON: TRUE

DESCRIPTION:

This remote procedure call converts a user-supplied date/time into VA FileMan's internal and external date format.

This remote procedure call is documented in Integration Agreement 4353.

INPUT PARAMETER: GMRDATE

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 30

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

GMRDATE is the user-supplied date/time text.

RETURN PARAMETER DESCRIPTION:

RESULT=Date in internal FileMan format^Date in external FileMan format

Example:

> S GMRDATE="10/11/2005@10:30AM"

> D GETDT^GMVGETQ(.RESULT,GMRDATE) ZW RESULT

> RESULT="3051011.103^OCT 11, 2005@10:30:00"

ROUTINE: GETDT GMVGETQ

¹ 4354	NAME: GMV GET CATEGORY IEN	
CUSTODIAL PACKAGE:	GEN. MED. REC. - VITALS	Chicago
SUBSCRIBING PACKAGE:	ORDER ENTRY/RESULTS REPORTING	Salt Lake City
USAGE:	Private	ENTERED: NOV 30,2005
STATUS:	Active	EXPIRES:
DURATION:	Till Otherwise Agr	VERSION:
FILE:		ROOT:
DESCRIPTION:		TYPE: Remote Procedure
NAME: GMV GET CATEGORY IEN		
TAG: CATEGORY		
ROUTINE: GMVUTL8		
RETURN VALUE TYPE: SINGLE VALUE		
AVAILABILITY: SUBSCRIPTION		
INACTIVE: ACTIVE		
DESCRIPTION:		
Returns the IEN if the value is found in the GMRV VITAL CATEGORY		
(#120.53) file.		

This remote procedure call is documented in Integration Agreement 4354.

INPUT PARAMETER: GMVCAT

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 45

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

GMVCAT = Name of Category (from FILE 120.53) (e.g., METHOD)

RETURN PARAMETER DESCRIPTION:

Returns the IEN if GMVCAT exists in FILE 120.53

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

External Relations

Example:

```
> S GMVCAT="METHOD"
> D CATEGORY^GMVUTL8(.RESULT,GMVCAT) ZW RESULT
> RESULT=2
```

ROUTINE: CATEGORY GMVUTL8

```
14355      NAME: GMV GET CURRENT TIME
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS                      Chicago
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING             Salt Lake City
      USAGE: Private                      ENTERED: NOV 30,2005
      STATUS: Active                      EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                               ROOT:
      DESCRIPTION:                        TYPE: Remote Procedure
NAME: GMV GET CURRENT TIME
TAG: TIME
ROUTINE: GMVUTL7
RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
WORD WRAP ON: FALSE
DESCRIPTION:
Gets the current date and time from the server.
```

This remote procedure call is documented in Integration Agreement 4355.
RETURN PARAMETER DESCRIPTION:
Returns current date and time in FileMan internal and external format.

Example:

```
> D TIME^GMVUTL7(.RESULT) ZW RESULT
> RESULT=3051011.143332
```

Note: There is an input parameter, P2, listed in the TIME line tag of the GMVUTL7 routine. However, it is not used. It can be set to any value or omitted. It remains for backwards compatibility.

ROUTINE: TIME GMVUTL7

```
24357      NAME: GMV GET VITAL TYPE IEN
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS                      Chicago
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING             Salt Lake City
      USAGE: Private                      ENTERED: NOV 30,2005
      STATUS: Active                      EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                               ROOT:
      DESCRIPTION:                        TYPE: Remote Procedure
NAME: GMV GET VITAL TYPE IEN
TAG: TYPE
ROUTINE: GMVUTL8
RETURN VALUE TYPE: SINGLE VALUE
```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

² April 2006 Patch GMRV*5.0*3 Added Integration Agreement 4357. Removed Integration Agreement 4356
"GMV Get Data."

AVAILABILITY: SUBSCRIPTION

INACTIVE: ACTIVE

DESCRIPTION:

Returns the IEN if the value is found in the GMRV VITAL TYPE (#120.51) file.

This remote procedure call is documented in Integration Agreement 4357.

INPUT PARAMETER: GMVTYPE

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 55

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

GMVTYPE = Name of Vital Type (from FILE 120.51) (e.g., WEIGHT)

RETURN PARAMETER DESCRIPTION:

Returns the IEN if GMVTYPE exists in FILE 120.51.

Example:

```
> S GMVTYPE="WEIGHT"
> D TYPE^GMVUTL8(.RESULT,GMVTYPE) ZW RESULT
> RESULT=9
```

ROUTINE: TYPE GMVUTL8

```

14358      NAME: GMV LATEST VM
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS                      Chicago
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING              Salt Lake City
      USAGE: Private                      ENTERED: NOV 30,2005
      STATUS: Active                      EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                               ROOT:
      DESCRIPTION:                       TYPE: Remote Procedure
NAME: GMV LATEST VM
TAG: GETLAT
ROUTINE: GMVGETD
RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
WORD WRAP ON: TRUE
DESCRIPTION:
This remote procedure call retrieves the latest vital records for a given
patient.
```

This remote procedure call is documented in Integration Agreement 4358.

INPUT PARAMETER: GMRDFN

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 10

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

GMRDFN variable is a pointer to the Patient (#2) file (i.e., DFN).

RETURN PARAMETER DESCRIPTION:

Returns the name of the global array (i.e., ^TMP(\$J,"GRPC")) containing the latest vitals for the selected patient.

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

External Relations

The TMP global contains:
^TMP(\$J,"GRPC",n)=piece1

where piece1 = is a formatted line of text.
n = sequential number starting at 1.

The formatted line of text includes the vital type, value and unit (U.S.), value and unit (metric), qualifiers, supplemental oxygen, body mass index value, and person who entered the record.

If there is no data for the patient, the following is returned:
^TMP(\$J,"GRPC",1)=There are no results to report

Example:

```
> S GMRDFN=134
> D GETLAT^GMVGETD(.RESULT,GMRDFN) ZW RESULT
> RESULT="^TMP(539349605,"GRPC")"
> D ^%G
> Global ^TMP($J,"GRPC"
> ^TMP(539349605,"GRPC",1)=Temp.: (08/09/05@08:00) 102 F (38.9 C)*
(ORAL) _VITPROVIDER,ONE
> 2)=Pulse: (07/14/05@16:33) 55
(LEFT,CAROTID,PALPATED,LYING) _VITPROVIDER,ONE
> 3)=Resp.: (07/14/05@16:33) 31
(SPONTANEOUS,SITTING) _VITPROVIDER,ONE
> 4)=Pulse Ox: (08/22/05@13:48) 99% with
supplemental O2 1 L/min 90% NASAL CANNULA _VITPROVIDER,ONE
> 5)=B/P: (09/26/05@11:30) 120/80* (L
ARM,SITTING,CAROTID,CALF) _VITPROVIDER,TWO
> 6)=Ht.: (09/14/05@17:18) 5 ft 6 in (167.64
cm) (ACTUAL) _VITPROVIDER,ONE
> 7)=Wt.: (09/14/05@17:18) 135 lb (61.36 kg)
(ACTUAL,STANDING) _VITPROVIDER,ONE
> 8)=Body Mass Index: 22
9)=CVP: (08/22/05@17:09) 15 cmH2O
(11.0 mmHg) _VITPROVIDER,ONE
10)=Circ/Girth: (07/22/05@10:22) 1 in (2.54 cm)
(DRY,ABDO MINAL) _VITPROVIDER,TWO
11)=Pain: (09/15/05@16:43) 5 _VITPROVIDER,ONE
```

ROUTINE: GETLAT GMVGETD

```
14359 NAME: GMV VITALS/CAT/QUAL
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
USAGE: Private ENTERED: NOV 30,2005
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Remote Procedure
NAME: GMV VITALS/CAT/QUAL
TAG: GETVITAL
ROUTINE: GMVUTL7
RETURN VALUE TYPE: ARRAY
AVAILABILITY: SUBSCRIPTION
```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

INACTIVE: ACTIVE
 WORD WRAP ON: TRUE
 DESCRIPTION:

Returns all qualifier information for the vital types selected.

This remote procedure call is documented in Integration Agreement 4359.

INPUT PARAMETER: GMVLIST

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 60

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

A list of vital type abbreviations (FILE 120.51, Field 1) separated by up-arrows (e.g., "HT^WT" for height and weight). When the value is null, all qualifier information will be returned for all vital types.

RETURN PARAMETER DESCRIPTION:

Returns the qualifier information for the selected vital types in the array specified. Includes the abnormal high and low values for the vital type, if any.

The result array contains:

RESULT(n)=piece1^piece2^piece3^piece4^piece5^piece6^piece7^piece8^piece9
 RESULT(n.nnn)=pieceA^pieceB^pieceC^pieceD

where n is a sequential number starting with 1

piece1 = V for vital type

piece2 = FILE 120.51 IEN for this vital type

piece3 = vital type name (FILE 120.51, Field .01)

piece4 = Abbreviation (FILE 120.51, Field 1)

piece5 = PCE Abbreviation (FILE 120.51, Field 7)

piece6 = If vital type is Blood Pressure this is the abnormal systolic high value (File 120.57, Field 5.7).
 If vital type is Temperature, this is the abnormal high value (File 120.57, Field 5.1)

If vital type is Respiration, this is the abnormal high value (File 120.57, Field 5.5)

If vital type is Pulse, this is the abnormal high value (File 120.57, Field 5.3)

If vital type is Central Venous Pressure, this is the abnormal high value (File 120.57, Field 6.1)

piece7 = If vital type is Blood Pressure this is the abnormal diastolic high value (File 120.57, Field 5.71).

If vital type is Temperature, this is the abnormal low value (File 120.57, Field 5.2)

If vital type is Respiration, this is the abnormal low value (File 120.57, Field 5.6)

If vital type is Pulse, this is the abnormal low value (File 120.57, Field 5.4)

If vital type is Central Venous Pressure, this is the abnormal low value (File 120.57, Field 6.2)

piece8 = If vital type is Blood Pressure this is the abnormal systolic low value (File 120.57, Field 5.8).

If vital type is Central Pressure, this is the abnormal O2 saturation (File 120.57, Field 6.3)

piece9 = If vital type is Blood Pressure this is the abnormal diastolic low value (File 120.57, Field 5.81).

RESULT(n.nnn)=pieceA^pieceB^pieceC^pieceD

where pieceA = C for CATEGORY or Q for QUALIFIER

External Relations

```
if pieceA is C, then
    pieceB = FILE 120.53 IEN for this category
    pieceC = category name (FILE 120.53, Field .01)
    pieceD = null

if pieceB is Q, then
    pieceB = FILE 120.52 IEN for this qualifier
    pieceC = qualifier name (FILE 120.52, Field .01)
    pieceD = synonym (FILE 120.52, Field .02)
```

Example:

```
> S GMVLIST="HT^WT"
> D GETVITAL^GMVUTL7(.RESULT,GMVLIST) ZW RESULT
> RESULT(1)="V^8^HEIGHT^HT^HT^"
> RESULT(1.001)="C^4^QUALITY"
> RESULT(1.002)="Q^42^ACTUAL^A"
> RESULT(1.003)="Q^43^ESTIMATED^E"
> RESULT(1.004)="Q^107^Stated^St"
> RESULT(2)="V^9^WEIGHT^WT^WT^"
> RESULT(2.001)="C^2^METHOD"
> RESULT(2.002)="Q^39^OTHER^Oth"
> RESULT(2.003)="Q^50^SITTING^Si"
> RESULT(2.004)="Q^51^STANDING^St"
> RESULT(2.005)="C^4^QUALITY"
> RESULT(2.006)="Q^42^ACTUAL^A"
```

ROUTINE: GETVITAL GMVUTL7

```
14360      NAME: GMV MANAGER
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING
CLINICAL PROCEDURES
          USAGE: Private      ENTERED: NOV 30,2005
          STATUS: Active      EXPIRES:
          DURATION: Till Otherwise Agr  VERSION:
          FILE:                ROOT:
          DESCRIPTION:         TYPE: Remote Procedure
NAME: GMV MANAGER
TAG: RPC
ROUTINE: GMVRPCM
RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
WORD WRAP ON: TRUE
DESCRIPTION:
Performs many functions for the Manager module.
```

This remote procedure call is documented in Integration Agreement 4360.

```
INPUT PARAMETER: OPTION
PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 10
REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

Routine tag line in GMVRPCM to call.

INPUT PARAMETER: DATA

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 100

REQUIRED: YES

SEQUENCE NUMBER: 2

DESCRIPTION:

Other data as required for the call.

RETURN PARAMETER DESCRIPTION:

This remote procedure call performs various actions such as building selection lists and modifying package parameters. The entry point is RPC^GMVRPCM. It has input parameters of RESULTS, OPTION and DATA (ex: RPC^GMVRPCM(.RESULTS,OPTION,DATA)).

The RESULTS variable will contain the ^TMP("GMVMGR",\$J) global array reference. The ^TMP("GMVMGR",\$J) global array contains the results.

The OPTION variable identifies a line label in the GMVRPCM routine that will be invoked to process the call.

The DATA variable contains any additional values needed by the OPTION variable to process the call.

1) When the OPTION value is ADDQUAL, this RPC will link a GMRV VITAL QUALIFIER (#120.52) file entry to a GMRV VITAL TYPE (#120.51) file entry.

The DATA value is a three part value separated by semi-colons(;). The first value is the FILE 120.51 internal entry number (IEN). The second value is the GMRV VITAL CATEGORY (#120.53) IEN. The third value is the GMRV VITAL QUALIFIER (#120.52) IEN.

Example:

```
> S DATA="1;1;1"
> S OPTION="ADDQUAL"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Qualifier Assigned
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

2) When the OPTION value is DELQUAL, this RPC will unlink a qualifier to a GMRV VITAL TYPE (#120.51) file entry.

The DATA value is a three part value separated by semi-colons. The first value is the FILE 120.51 internal entry number (IEN). The second value is the GMRV VITAL CATEGORY (#120.53) IEN. The third value is the GMRV VITAL QUALIFIER (#120.52) IEN.

Example:

```
> S DATA="1;1;1"
> S OPTION="DELQUAL"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
```

```
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Qualifier removed.
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

3) When the OPTION value is DELTEMP, this RPC will delete a data input template definition.

The DATA value is a two part value separated by a caret (^). The first value is the ENTITY value. See IA #2263 for a list of entity values. The second value is the name of the data input template.

Example:

```
> S DATA="USR^PAIN ONLY"
> S OPTION="DELTEMP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Template Removed.
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

4) When the OPTION value is GETCATS, this RPC will return a list of qualifiers (FILE 120.52) associated with a vital type (FILE 120.51).

The DATA value is a one part value. It is a pointer value to FILE 120.51

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1^piece2
^TMP("GMVMGR",$J,n)=piece3^piece4^piece5
```

where piece1 = number of categories (FILE 120.53) associated with this vital type
 piece2 = vital type name
 piece3 = category IEN (FILE 120.53)
 piece4 = category name (FILE 120.53, Field .01)
 piece5 = qualifier names (FILE 120.52, Field .01) separated by a comma and space
 n = sequential number starting with 1

Example:

```
> S DATA="21"
> S OPTION="GETCATS"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^PULSE OXIMETRY
    1)=2^METHOD^AEROSOL/HUMIDIFIED MASK, CPAP, FACE
    TENT, L ARM, MASK, NASAL CANNULA, NON RE-BREATHING, PARTIAL
    RE-BREATHING, ROOM AIR, T-PIECE, TRACHEOSTOMY COLLAR, VENTILATOR,
    VENTURI MASK
```

If an error is encountered, a "-1" followed by a caret and the error

message text (i.e., -1^error message) is returned.

5) When the OPTION value is GETDATA, this RPC will return the value of the entry you specify.

The DATA value is a three part value. The first part is the file number. The second part is the IEN number of the entry. The third part is the field number.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=external value of the field
```

Example:

```
> S DATA="120.51^1^1"
> D RPC(.RESULT,"GETDATA",DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539339804)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539339804,0)=BP
```

If a value cannot be found, then a null value is returned.

6) When the OPTION value is GETDEF, this RPC will return default template names.

The DATA value is a one part value. If it is null, then all default templates for that user will be returned.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1
^TMP("GMVMGR",$J,n)=piece2^piece3
```

```
where piece1 = number of templates found
      piece2 = an IEN value, a semi-colon, and a global reference
      piece3 = template name
      n = sequential number starting with 1
```

Example A:

```
> S DATA=""
> S OPTION="GETDEF"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=4
                                1)=125;SC(^WARD 10A
                                2)=334;DIC(4.2,^TEST
                                3)=4601;VA(200,^Height ONLY
                                4)=547;VA(200,^All Vital Signs
```

If the DATA value is an entity value (see IA 2263 for a list of entity values), then the default template name for that entity will be returned.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=template name
```

Example B:

```
> S DATA="USR"
```

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```
> S OPTION="GETDEF"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=MY DEFAULT
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

7) When the OPTION value is GETHILO, this RPC will return the abnormal high or low value for a vital type.

The DATA value is a one part value which identifies a field number in the GMRV VITALS PARAMETERS (#120.57) field.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=field value
```

Example:

```
> S DATA=5.2
> S OPTION="GETHILO"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=94
```

A zero is returned if there is no value in the field.

8) When the OPTION value is GETLIST, this RPC returns a list of entries for the file number specified.

The DATA value is a one part value. It is a file number.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1^piece2
^TMP("GMVMGR",$J,n)=piece3^piece4
```

where piece1 = number of entries returned
piece2 = file name [not returned in all cases]
piece3 = file number, a semi-colon and record IEN
piece4 = the .01 value of the record
n = sequential number starting with 1

Examples:

Retrieve a list of wards.

```
> S DATA=42
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=26^WARD LOCATION
    1)=42;14^10A
    n)=42;15^10B
    26)=42;39^10Z
```


Retrieve a list of clinics.

```
> S DATA=44
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=61
                                1)=44;6^HOUSE/A
                                n)=44;8^HOUSE/C
                                61)=44;39^HOUSE/ZZ
```

Retrieve a list vital types.

```
> S DATA=120.51
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=10^GMRV VITAL TYPE
                                1)=120.51;1^BLOOD PRESSURE
                                N)=120.51;19^CENTRAL VENOUS PRESSURE
                                10)=120.51;9^WEIGHT
```

Retrieve a list of qualifiers.

```
> S DATA=120.52
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=80^GMRV VITAL QUALIFIER
                                1)=120.52;74^ABDOMINAL
                                n)=120.52;42^ACTUAL
                                80)=120.52;99^WRIST
```

Retrieve a list of CPRS teams.

```
> S DATA=100.21
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=103
                                1)=100.21;28^1AS
                                n)=100.21;60^1ASO
                                103)=100.21;96^consult team
```

Retrieve a list of nursing units.

```
> S DATA=211.4
> S OPTION="GETLIST"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539363784)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539363784,0)=21
                                1)=211.4;7^10E
                                n)=211.4;17^10W
                                21)=211.4;9^SICU
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

9) When the OPTION value is GETQUAL, this RPC returns a list of qualifiers associated with this vital type.

The DATA value is a two part value separated by a semi-colon. The first part is vital type (FILE 120.51) IEN. The second part is a category (FILE 120.53) IEN.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1^piece2
^TMP("GMVMGR",$J,n)=piece3^piece4
```

```
where piece1 = number of entries found
      piece2 = category name (FILE 120.53, Field .01)
      piece3 = qualifier IEN
      piece4 = qualifier name (FILE 120.52, Field .01)
      n = sequential number starting with 1
```

Example:

```
> S DATA="1;1",OPTION="GETQUAL"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=6^LOCATION
                                1)=139^Test Qualifier
                                2)=53^FEMORAL
                                3)=2^L ARM
                                4)=4^L LEG
                                5)=24^PERIPHERAL
                                6)=1^R ARM
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

10) When the OPTION value is GETTEMP, this RPC will return a list data input templates definitions.

The DATA value is a two part value separated by a caret. The first part is an entity value. See IA 2263 for a list of entities. The second part is a data input template name.

When DATA is null, all data input template definitions are returned.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1
^TMP("GMVMGR",$J,n)=piece2^piece3^piece4^piece5^piece6
```

```
where piece1 = number of entries returned
      piece2 = 1, 2, 3, or 4. (1 = Domain, 2 = Institution, 3 =
                        Hospital location and 4 = New Person)
      piece3 = file IEN, a semi-colon and global reference
      piece4 = Field .01 value of the file specified in piece3
      piece5 = template name
      piece6 = template description text, a bar, vital type IEN (FILE
120.51), a colon, a metric flag (0=U.S. and 1=metric), category IEN
```

(FILE 120.53), a coma, and a qualifier IEN (FILE 120.52), a tilde indicates additional category and qualifier combinations for the vital type. A semi-colon indicates the start of the next vital type.

n = sequential number starting with 1

Example:

```
> S DATA="USR",OPTION="GETTEMP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1
                                1)=4^547;VA(200,^VITUSER,ONE^MY DEFAULT^ALL
                                VITALS|1:0:1,2~2,59~3,50;20:1|
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

11) When the OPTION value is LOOKUP, this RPC will do a file lookup

The DATA value is a three part value separated by a caret. The first part is a file number. The second part is a value to look up. The third part is the field or fields to do the look up on. If the third piece is not defined, the lookup is done on the .01 field of the file.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1
^TMP("GMVMGR",$J,n)=piece2^piece3
```

where piece1 = number of entries found
 piece2 = file number, a semi-colon and record IEN
 piece3 = field value

Example:

```
> S DATA="44^OUTPAT^.01",OPTION="LOOKUP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539359648)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539359648,0)=3
                                1)=44;75^OUTPATIENT NUC MED
                                2)=44;74^OUTPATIENT RADIOLOGY
                                3)=44;80^OUTPATIENT ULTRASOUND
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

12) When the OPTION value is NEWQUAL, this RPC will always return an error message instructing the user to use the New Term Rapid Turnaround process.

The DATA value is always null.

Example:

```
> S DATA=""
> S OPTION="NEWQUAL"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
```

```
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=-1^Use the New Term Rapid Turnaround
  (NTRT) process to add qualifiers
```

13) When the OPTION value is NEWTEMP, this RPC will file a new data input template.

The DATA value is a three part value separated by a caret. The first part is an entity. See IA 2263 for a list of entities. The second part is the name of the data input template. The third part is the description text. If the third part is null, the template description will default to "No Description".

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=piece1^piece2^piece3^piece4

  where piece1 = 1, 2, 3, or 4 (1 = DOMAIN (#4.2), 2 = INSTITUTION (#4),
    3 = HOSPITAL LOCATION, and 4 = NEW PERSON)
    piece2 = IEN, a semi-colon, and global reference (e.g.,
    3;DIC(4.2)
    piece3 = the .01 field value for the record in piece2
    piece4 = data input name
```

Example:

```
> S DATA="USR^1 EAST^All Vital Types"
> S OPTION="NEWTEMP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539343036)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539343036,0)=4^547;VA(200,^VITUSER,ONE^1 EAST
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

14) When the OPTION value is RENTEMP, this RPC will rename a data input template.

The DATA value is a three part value separated by a caret. The first part is an entity. See IA 2263 for a list of entities. The second part is the current template name. The third part is the new name of the template.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Renamed
```

Example:

```
> S DATA="USR^FRANK'S DEFAULT^MY DEFAULT"
> S OPTION="RENTEMP"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Renamed
```

If an error is encountered, a "-1" followed by a caret and the error

message text (i.e., -1^error message) is returned.

15) When the OPTION value is SETDATA, this RPC always returns an error message that instructs the user to use the New Term Rapid Turnaround process.

The DATA value is null.

Example:

```
> S DATA=""
> S OPTION="SETDATA"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=-1^Use the New Term Rapid Turnaround
(NTRT) process to add qualifiers
```

16) When the OPTION value is SETDEF, this RPC will set that data input template as a default.

The DATA value is a two part value separated by a caret. The first part is an entity. See IA 2263 for a list of entities. The second part is the name of the template that will become the default template.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Set As Default
```

Example:

```
> S DATA="USR^FRANK'S LIST"
> S OPTION="SETDEF"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Set As Default.
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

17) When the OPTION value is SETHILO, this RPC will set the high and low abnormal values for a vital type.

The DATA value is a two part value separated by a caret. The first part is a field number in the GMRV VITALS PARAMETERS (#120.57) file. The second part is the value that field should be set to.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Update Complete.
```

Example:

```
> S DATA="5.1^102",OPTION="SETHILO"
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVMGR",539356158)"
> D ^%G
> Global ^TMP("GMVMGR",$J
> ^TMP("GMVMGR",539356158,0)=1^Update Complete.
```

External Relations

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

18) When the OPTION value is SETTEMP, this RPC will save the input template definition.

DATA is a three part value separated by a caret. The first part is an entity. See IA 2263 for a list of entities. The second part is the template name. The third part is the template definition.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Template Saved.
```

Example:

```
> S DATA="USR^ONE VITAL TYPE ONLY^CONTAINS ONLY ONE VITAL  
  TYPE|2:0:1,102"|  
> S OPTION="SETTEMP"  
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT  
> RESULT="^TMP("GMVMGR",539356158)"  
> D ^%G  
> Global ^TMP("GMVMGR",$J  
> ^TMP("GMVMGR",539356158,0)=1^Template Saved.
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

19) When the OPTION value is VALID, this RPC will validate data.

DATA is a four part value separated by a caret. The first part is the a file number. The second part is a record number. The third part is a field number. The fourth part is the value to validate.

The TMP global contains:

```
^TMP("GMVMGR",$J,0)=1^Valid Data
```

Example:

```
> S DATA="120.5^8864^.01^3051012.1034",OPTION="VALID"  
> D RPC^GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT  
> RESULT="^TMP("GMVMGR",539343036)"  
> D ^%G  
> Global ^TMP("GMVMGR",$J  
> ^TMP("GMVMGR",539343036,0)=1^Valid Data
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

ROUTINE: RPC GMVRPCM

¹4366 NAME: GMV USER
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING

Chicago
Salt Lake City

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

```

        USAGE: Private          ENTERED: NOV 30,2005
        STATUS: Active          EXPIRES:
        DURATION: Till Otherwise Agr VERSION:
        FILE:                   ROOT:
        DESCRIPTION:           TYPE: Remote Procedure
NAME: GMV USER
TAG: RPC
ROUTINE: GMVRPCU
RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
WORD WRAP ON: TRUE
DESCRIPTION:
Retrieves data about the user (e.g., parameter settings).

```

This remote procedure call is documented in Integration Agreement 4366.

```

INPUT PARAMETER: OPTION
PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 10
REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
Routine tag line to call in GMVRPCU.
INPUT PARAMETER: DATA
PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 100
REQUIRED: YES
SEQUENCE NUMBER: 2
DESCRIPTION:
Other data as required for the call.

```

```

RETURN PARAMETER DESCRIPTION:
This Remote Procedure Call (RPC) performs various actions focusing on
the user. The entry point is RPC^GMVRPCU. It has input parameters of
RESULTS, OPTION and DATA (e.g., RPC^GMVRPCU(RESULTS,OPTION,DATA)).

```

The RESULTS variable contains the results of the call or the location where the results can be found.

The OPTION variable identifies another entry point in the GMVRPCU routine that is invoked to process the call.

The DATA variable contains any values needed by the OPTION variable to process the call.

1) When the OPTION value is SETPAR, this RPC will set and/or delete the value of a GMV USER DEFAULTS setting (e.g., the user's default template).

The DATA value is a two part value separated by a caret. The first part is name of a setting. The second part is the value of the setting. If the second part is null, the existing value of the setting is deleted.

```

The TMP global contains:
^TMP("GMVUSER",$J,0)=1^Parameter set.
or
^TMP("GMVUSER",$J,0)=1^Parameter cleared

```

Example:

```

> S DATA="DefaultTemplate^547;VA(200,|MY DEFAULT",OPTION="SETPAR" |
> D RPC^GMVRPCU(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVUSER",539374023)"

```

External Relations

```
> D ^%G
> Global ^TMP("GMVUSER",$J
> ^TMP("GMVUSER",539374023,0)=1^Parameter set.
```

If an error is encountered, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned.

2) When the OPTION value is GETPAR, this RPC will return the value of the GMV USER DEFAULTS setting specified in the DATA value.

The DATA value is a one part value. It is the name of a setting (e.g., the user's default template).

The TMP global contains:

```
^TMP("GMVUSER",$J,0)=value of setting or null
```

Example:

```
> S DATA="DefaultTemplate",OPTION="GETPAR"
> D RPC^GMVRPCU(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVUSER",539374023)"
> D ^%G
> Global ^TMP("GMVUSER",$J
> ^TMP("GMVUSER",539374023,0)=547;VA(200,|ONE VITAL TYPE ONLY|
```

3) When the OPTION value is SIGNON, this RPC will return information about the user who is currently signed onto the system.

The DATA value is not used. The user's IEN (i.e., DUZ) to the NEW PERSON (#200) file value must be defined when this call is made.

The RESULT variable will return the following array:

```
RESULT(0)=NEW PERSON (#200) file internal entry number (DUZ)
RESULT(1)=User's name (FILE 200, Field .01)
RESULT(2)=Domain (FILE 4.2) internal entry number
RESULT(3)=Domain name (FILE 4.2, Field .01)
RESULT(4)=Institution (FILE 4) internal entry number the user is signed
into (i.e., DUZ(2))
RESULT(5)=Institution name (FILE 4, Field .01)
RESULT(6)="0" or "1". "1" indicates the user has the GMV MANAGER or
programmer key. "0" indicates the user has neither key.
RESULT(7)=The user's title (FILE 200, Field 8)
RESULT(8)=This value is always null.
RESULT(9)=Number of seconds the system will wait for a response from
the user (i.e., DTIME). The default time is 300 seconds.
RESULT(10)=INSTITUTION (#4) file IEN^FILE 4 external value^station
number (e.g., 499^SUPPORT ISC^499).
```

Example:

```
> S OPTION="SIGNON"
> D RPC(.RESULT,OPTION) ZW RESULT
> RESULT="^TMP("GMVUSER",539375907)"
> D ^%G
> Global ^TMP("GMVUSER",$J
> ^TMP("GMVUSER",539375907,0)=547
1)=VITUSER,ONE
2)=334
3)=DEV.DEV.FO-HINES.MED.VA.GOV
4)=499
```


5)=SUPPORT ISC
 6)=1
 7)=PROGRAMMER
 8)=
 9)=9999
 10)=499^SUPPORT ISC^499

ROUTINE: RPC GMVRPCU

¹4367 NAME: GMV PARAMETER
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
 USAGE: Private ENTERED: NOV 30,2005
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Remote Procedure
 NAME: GMV PARAMETER
 TAG: RPC
 ROUTINE: GMVPAR
 RETURN VALUE TYPE: GLOBAL ARRAY
 AVAILABILITY: SUBSCRIPTION
 INACTIVE: ACTIVE
 WORD WRAP ON: TRUE
 DESCRIPTION:
 Sets and retrieves parameter values used by the graphical user interface.

This remote procedure call is documented in Integration Agreement 4367.

INPUT PARAMETER: OPTION
 PARAMETER TYPE: LITERAL
 MAXIMUM DATA LENGTH: 10
 REQUIRED: YES
 SEQUENCE NUMBER: 1
 DESCRIPTION:
 Routine tag line to call.
 INPUT PARAMETER: ENT
 PARAMETER TYPE: LITERAL
 SEQUENCE NUMBER: 2
 DESCRIPTION:
 The entity value to use. See Integration Agreement 2263 and FILE 8989.518 for a list of entity values.
 INPUT PARAMETER: PAR
 PARAMETER TYPE: LITERAL
 SEQUENCE NUMBER: 3
 DESCRIPTION:
 The parameter value to use. See FILE 8989.51 for a list of parameter values. This value must start with the letters "GMV" (no quotes).
 INPUT PARAMETER: INST
 PARAMETER TYPE: LITERAL
 SEQUENCE NUMBER: 4
 DESCRIPTION:
 The instance to use.
 INPUT PARAMETER: VAL
 PARAMETER TYPE: LITERAL
 SEQUENCE NUMBER: 6

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

DESCRIPTION:

The value assigned to a parameter. Values are stored in FILE 8989.5.

RETURN PARAMETER DESCRIPTION:

This remote procedure call sets and retrieves parameter settings that are used in the graphical user interface.

The entry point is RPC^GMVPAR.. It has input parameters of RESULTS, OPTION, ENT, PAR, INST and VAL (ex:
RPC^GMVPAR(RESULTS,OPTION,ENT,PAR,INST,VAL).

The RESULTS variable contains the results of the call or the location where the results can be found.

The OPTION variable identifies the entry point in the GMVPAR routine that will be invoked to process the call.

If an error occurs, the ^TMP global contains:

^TMP(\$J,0)=-1^error message text

1) When the OPTION value is DELPAR, this RPC deletes the value for the instance, parameter and entity specified.

The TMP global contains:

^TMP(\$J,0)=1^Instance deleted

Example:

```
> S OPTION="DELPAR",ENT="SYS",PAR="GMV DLL VERSION"
> S INST="GMV_VITALSVIEWENTER.DLL:v. 07/21/05 10:34"
> D RPC^GMVPAR(.RESULT,OPTION,ENT,PAR,INST) ZW RESULT
> RESULT="^TMP(538999278)"
> D ^%G
> Global ^TMP($J
> ^TMP(538999278,0)=1^Instance deleted
```

2) When the OPTION value is ENTVAL, this RPC returns the external value of the entity specified.

The TMP global contains:

TMP(\$J,0)=external value

Example:

```
> S OPTION="ENTVAL",ENT="USR"
> D RPC(.RESULT,OPTION,ENT) ZW RESULT
> RESULT="^TMP(538993252)"
> D ^%G
> Global ^TMP($J
> ^TMP(538993252,0)=TRAXLER,FRANK
```

3) When the OPTION value is GETLST, this RPC returns a list of instances and their values for the parameter and entity specified.

The TMP global contains:

^TMP(\$J,0)=piece1
^TMP(\$J,n)=piece2^piece3

where piece1 = number of entries returned
piece2 = instance name

```

piece3 = instance value
n = sequential number starting with 1

```

Example:

```

> S OPTION="GETLST",ENT="USR",PAR="GMV USER DEFAULTS"
> D RPC(.RESULT,OPTION,ENT,PAR) ZW RESULT
> RESULT="^TMP(538993252)"
> D ^%G
> Global ^TMP($J
> ^TMP(538993252,0)=44
    1)=DefaultTemplate^547;VA(200,|MY DEFAULT|
    n)=UNIT_INDEX^0
    44)=WARD_INDEX^-1

```

4) When the OPTION value is GETPAR, this RPC will get the value for the instance, parameter and entity specified.

The TMP global contains:

```
^TMP($J,0)=piece1
```

where piece1 = value

Example:

```

> S ENT="USR",PAR="GMV USER DEFAULTS",INST="DefaultTemplate"
> S OPTION="GETPAR"
> D RPC(.RESULT,OPTION,ENT,PAR,INST) ZW RESULT
> RESULT="^TMP(538993252)"
> D ^%G
> Global ^TMP($J
> ^TMP(538993252,0)=547;VA(200,|MY DEFAULT|

```

5) When the OPTION value is SETPAR, this RPC set the value of an instance for the instance, parameter and entity specified.

The TMP global contains:

```
^TMP($J,0)=1^Parameter updated
```

Example:

```

> S OPTION="SETPAR",ENT="USR",PAR="GMV USER DEFAULTS",INST="SearchDelay"
> S VAL=1.5
> D RPC^GMVPAR(.RESULT,OPTION,ENT,PAR,INST,VAL) ZW RESULT
> RESULT="^TMP(538999278)"
> D ^%G
> Global ^TMP($J
> ^TMP(538999278,0)=1^Parameter updated

```

ROUTINE: RPC GMVPAR

```

14414      NAME: GMV MARK ERROR
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING
                USAGE: Private                ENTERED: NOV 30,2005

```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

External Relations

```
STATUS: Active          EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE:                  ROOT:
DESCRIPTION:           TYPE: Remote Procedure
NAME: GMV MARK ERROR
TAG: ERROR
ROUTINE: GMVUTL1
RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
DESCRIPTION:
This remote procedure call marks a selected vitals record in the GMRV
Vital Measurement (#120.5) file as entered-in-error.

This remote procedure call is documented in Integration Agreement 4414.
INPUT PARAMETER: GMVDATA
PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 60
REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
GMVDATA contains the following information:

piece1^piece2^piece3

where piece1 = FILE 120.5 IEN
      piece2 = FILE 200 IEN (i.e., DUZ)
      piece3 = A single value to indicate the reason for the error.
                1 = INCORRECT DATE/TIME, 2 = INCORRECT READING, 3 =
                INCORRECT PATIENT and 4 = INVALID RECORD
RETURN PARAMETER DESCRIPTION:
If the record is marked as entered in error, RESULT is set to "OK".
Otherwise, RESULT is set to "Record Not Found"

Example:
> S GMVDATA="1560^547^1"
> D ERROR^GMVUTL1(.RESULT,GMVDATA) ZW RESULT
> RESULT="OK"

ROUTINE: ERROR GMVUTL1
```

```
14416      NAME: GMV EXTRACT REC
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING
      USAGE: Private          ENTERED: NOV 30,2005
      STATUS: Active          EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                  ROOT:
      DESCRIPTION:           TYPE: Remote Procedure
NAME: GMV EXTRACT REC
TAG: GETVM
ROUTINE: GMVGETD
RETURN VALUE TYPE: GLOBAL ARRAY
```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

AVAILABILITY: SUBSCRIPTION

INACTIVE: ACTIVE

WORD WRAP ON: TRUE

DESCRIPTION:

This remote procedure call retrieves vital records from the GMRV Vital Measurement (#120.5) file for a selected patient within a given date span.

This remote procedure call is documented in Integration Agreement 4416.

INPUT PARAMETER: GMRVDATA

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 30

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

GMRVDATA consists of 4 pieces of information:

piece1^piece2^piece3^piece4

where piece1 = Patient (#2) file pointer (i.e., DFN)

piece2 = End date of search (FileMan internal format)

piece3 = single vital type abbreviation (File 120.51, Field 1)

[optional] If not defined, the default is

"T;P;R;BP;HT;WT;PN;PO2;CG;CVP"

piece4 = Start date of search (FileMan internal format)

RETURN PARAMETER DESCRIPTION:

Returns the name of the global array (i.e., ^TMP(\$J,"GRPC")) containing a list of vital records for the selected patient within the defined date range.

The TMP global contains:

^TMP(\$J,"GRPC",n)=piece1^piece2

where piece1 = File 120.5 IEN

piece2 = a string of text in the following format:

Date/time taken (external) Vital Type Abbreviation:

Rate U.S. units (Metric value) (Qualifiers)

n = sequential number starting at 1.

Example:

> S GMRVDATA="134^3051028^BP^3051001"

> D GETVM^GMVGETD(.RESULT,GMRVDATA) ZW RESULT

> RESULT="^TMP(538999278,"GRPC")"

> D ^%G

> Global ^TMP(\$J,"GRPC"

> ^TMP(538999278,"GRPC",1)=8858^10/11/05@16:35 B/P: 120/80* (L

ARM,

SITTING, CAROTID, CALF) _VITPROVIDER,ONE

> 2)=8961^10/20/05@14:47 B/P: 128/81* (L ARM,

SITTING, PALPATED) _VITPROVIDER,TWO

If there is no data, then the following is returned:

^TMP(\$J,"GRPC",1)=0^NO VITALS/MEASUREMENTS ENTERED WITHIN THIS PERIOD

ROUTINE: GETVM GMVGETD

External Relations

¹4420 NAME: GMV DLL VERSION
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING
 USAGE: Private ENTERED: NOV 30,2005
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Remote Procedure
NAME: GMV DLL VERSION
TAG: DLL
ROUTINE: GMVUTL8
RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
DESCRIPTION:
Returns a YES or NO response to indicate if the Dynamic Link Library
(DLL) file should be used.

This remote procedure call is documented in Integration Agreement 4420.

INPUT PARAMETER: GMVX

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 50

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

This value is the name of the file and the date/time associated with it
(e.g., GMV_VITALSVIEWENTER.DLL:v. 07/21/05 10:34).

RETURN PARAMETER DESCRIPTION:

Returns YES if the file can be used. Returns NO, if the file cannot be
used. Returns null if the file was not found.

Example:

```
> S GMVX="GMV_VITALSVIEWENTER.DLL:v. 07/21/05 10:34"  
> D DLL^GMVUTL8(.RESULT,GMVX) ZW RESULT  
> RESULT="NO"
```

ROUTINE: DLL GMVUTL8

²4461 NAME: GMV LOCATION SELECT
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING
 USAGE: Private ENTERED: JAN 3,2006
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 DESCRIPTION: TYPE: Remote Procedure
NAME: GMV LOCATION SELECT
TAG: RPC
ROUTINE: GMVRPCHL
RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
WORD WRAP ON: TRUE
DESCRIPTION:
Select a hospital location by name, from a patient appointment or from a

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

² April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

patient admission.

```

INPUT PARAMETER: OPTION
PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 10
REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
Routine tag line in GMVRPCHL to call.
INPUT PARAMETER: DATA
PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 100
REQUIRED: YES
SEQUENCE NUMBER: 2
DESCRIPTION:
Other data as required for the call.
RETURN PARAMETER DESCRIPTION:
This remote procedure call allows the user to select a hospital
location.

```

The entry point is RPC^GMVRPCHL. It has input parameters of RESULTS, OPTION and DATA (ex. RPC^GMVRPCHL(.RESULTS,OPTION,DATA)).

The RESULTS variable will contain the ^TMP("GMVHLOC",\$J) global array reference. The ^TMP("GMVHLOC",\$J) global array contains the results.

The OPTION variable identifies a line label in the GMVRPCHL routine that will be invoked to process the call.

The DATA variable contains any additional values needed by the OPTION variable to process the call.

1) When the OPTION value is NAME, this RPC will do a file lookup.

The DATA value is a three part value separated by carets(^). The first part is a file number. The second part is a value to look up. The third part is the field or fields to do the look up on. If the third piece is not defined, the lookup is done on the .01 field of the file.

```

The TMP global contains:
^TMP("GMVHLOC",$J,0)=piece1
^TMP("GMVHLOC",$J,n)=piece2^piece3

```

```

where piece1 = number of entries found
      piece2 = file number, a semi-colon and record IEN
      piece3 = field value

```

Example:

```

>S OPTION="NAME",DATA="44^OUTPATIENT^.01"
>D RPC^GMVRPCHL(.RESULT,OPTION,DATA) ZW RESULT
>RESULT="^TMP("GMVHLOC",539052767)"
>D ^%G
>Global ^TMP("GMVHLOC",$J
>^TMP("GMVHLOC",539052767,0)=3
      1)=44;75^OUTPATIENT NUC MED
      2)=44;74^OUTPATIENT RADIOLOGY
      3)=44;80^OUTPATIENT ULTRASOUND

```

2) When the OPTION value is APPT, this RPC will return a list of clinic

appointments for the patient.

The DATA value is a four part value separated by carets(^). The first piece is DFN. The second piece is the start date of the search. If not defined, this value defaults to 365 days prior to today. The third piece is the end date of the search. If not defined, the value defaults to today. Both dates are in FileMan internal format. The fourth piece is a string of numbers to indicate what types of appointments to return. If not defined, the value defaults to "123456789" (i.e., all appointment types) where:

- 1 - Active/Kept
- 2 - Inpatient appts. only
- 3 - No-shows
- 4 - No-shows, auto-rebook
- 5 - Cancelled by clinic
- 6 - Cancelled by clinic, auto rebook
- 7 - Cancelled by patient
- 8 - Cancelled by patient, auto rebook
- 9 - No action taken

The TMP global contains:

```
^TMP("GMVHLOC",$J,0)=piece1
^TMP("GMVHLOC",$J,n)=piece2^piece3^piece4^piece5^piece6^piece7
                        ^piece8^piece9^
```

```
where piece1 = number of entries found
      piece2 = date/time of appt (FM internal)
      piece3 = date/time of appt (external)
      piece4 = hospital location IEN (FILE 44)
      piece5 = hospital location name (FILE 44, Field .01)
      piece6 = appt status (internal)
      piece7 = appt status (external)
      piece8 = appt type (internal)
      piece9 = appt type (external)
```

Example:

```
> S OPTION="APPT",DATA="78^3051201^3051206^"
> D RPC^GMVRPCHL(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVHLOC",539052767)"
> D ^%G
> Global ^TMP("GMVHLOC",$J
> ^TMP("GMVHLOC",539052767,0)=1
                                1)=3051206.1^DEC 6,2005@10:00^88^WEIGHT
                                CLINIC^^^9^REGULAR
```

3) When the OPTION value is ADMIT, this RPC will return a list of hospital admissions for the patient specified.

The DATA value is the patient's DFN.

The TMP global contains:

```
^TMP("GMVHLOC",$J,0)=piece1
^TMP("GMVHLOC",$J,n)=piece2^piece3^piece4^piece5^piece6
```

```
where piece1 = number of entries found
      piece2 = date/time of admission (external)
      piece3 = hospital location IEN (FILE 44)
      piece4 = hospital location name (FILE 44, Field .01)
      piece5 = type of movement (FILE 405.1, Field .01)
```


piece6 = movement IEN (FILE 405)

Example:

```
> S OPTION="ADMIT",DATA=134
> D RPC^GMVRPCHL(.RESULT,OPTION,DATA) ZW RESULT
> RESULT="^TMP("GMVHLOC",539052767)"
> D ^%G
> Global ^TMP("GMVHLOC",$J
> ^TMP("GMVHLOC",539052767,0)=1
                                1)=Apr 09, 2001 1:48:43 pm^67^
                                2-ASM^DIRECT^1712
```

If an error is encountered for NAME, ADMIT or APPT, a "-1" followed by a caret and the error message text (i.e., -1^error message) is returned in RESULT(0).

Select a hospital location by name, from a patient appointment or from a patient admission.

This remote procedure is documented in Integration Agreement 4461.

TAG^ROUTINE: RPC^GMVRPCHL
KEYWORDS:

```
14504      NAME: 4504
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS                      Chicago
SUBSCRIBING PACKAGE: CLINICAL REMINDERS                          Salt Lake City
                        Clinical Reminder will retrieve and display the text
                        for the Vital Qualifier by direct global read.
                        PHARMACY BENEFITS MANAGEMENT
                        USAGE: Controlled Subscri ENTERED: SEP  8,2004
                        STATUS: Active              EXPIRES:
                        DURATION: Till Otherwise Agr VERSION:
                        FILE: 120.52                 ROOT: GMRD(120.52
DESCRIPTION:                                     TYPE: File
This IA will allow package to directly look at the .01 field in order to
get the text of the Vital Qualifier. This also gives the packages
permission to reference all of the crossreference in the file in order to
find the entry that is being sought after.
^GMRD(120.52
.01      QUALIFIER              0;1      Direct Global Read
                                           This field supplies a list of
                                           possible qualifiers for a vital
                                           measurement record.
```

ROUTINE:

```
24566      NAME: GMRV VITAL QUALIFIER
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS                      Chicago
SUBSCRIBING PACKAGE: PHARMACY BENEFITS MANAGEMENT              Birmingham
                        The pharmacy benefits management services package
                        needs to be able to have direct global read
```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

² April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

privileges to extract the qualifiers for selected
vitals for a given time frame.

```

        USAGE: Private          ENTERED: NOV 30,2004
        STATUS: Active          EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE: 120.51            ROOT: GMR(120.51
        DESCRIPTION:            TYPE: File
PBM needs to be able to access VITAL QUALIFIERS for direct global reads.
^GMR(120.51,D0,
.01      NAME                  D0,0      Direct Global Read
                                           The pharmacy benefit management
                                           extract needs to go through the
                                           qualifiers for selected vital
                                           signs.

```

ROUTINE:

```

14653      NAME: GMVUTL8
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING
        USAGE: Private          ENTERED: APR  6,2005
        STATUS: Active          EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE:                    ROOT:
        DESCRIPTION:              TYPE: Routine
This agreement supports the GMVUTL8 routine entry points listed below.

```

```

ROUTINE: GMVUTL8
COMPONENT: $$QUALIFRS(IEN)
VARIABLES: IEN      Input

```

IEN is the internal entry number of an
entry in the GMRV VITAL MEASUREMENT
(#120.5) file.

\$\$QUALIFRS Output

A string that contains the results of the
function.

This function returns the external values of the QUALIFIER
(#5) multiple field for an entry in the GMRV VITAL
MEASUREMENT (#120.5) file. The qualifier values are
separated by a comma.

Example:

```

> S IEN=488
> W $$QUALIFRS^GMVUTL8(IEN)
> L ARM,SITTING,CUFF,ADULT

```

```

COMPONENT: $$SUPO2(IEN)
VARIABLES: IEN      Input

```

IEN is the internal entry number of an
entry in the GMRV VITAL MEASUREMENT
(#120.5) file.

\$\$SUPO2 Output

A string that contains the results of the
function.

This function returns the external value of the
SUPPLEMENTAL O2 (#1.4) field for an entry in the GMRV VITAL

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

MEASUREMENT (#120.5) file.

Example:

```
> S IEN=489
> W $$SUPO2^GMVUTL8(IEN)
> 2 1/min 90%
```

```
14654      NAME: GMV V/M ALLDATA
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING
      USAGE: Private      ENTERED: NOV 30,2005
      STATUS: Active      EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:      ROOT:
      DESCRIPTION:      TYPE: Remote Procedure
NAME: GMV V/M ALLDATA
TAG: VMDATA
ROUTINE: GMVGGR1
RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: SUBSCRIPTION
INACTIVE: ACTIVE
WORD WRAP ON: TRUE
DESCRIPTION:
This remote procedure call lists all vitals/measurements data for a given
date/time span.
```

This remote procedure call is documented in Integration Agreement 4654.

```
INPUT PARAMETER: GMVDATA
PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 60
REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
GMVDATA consists of 4 pieces of data:
```

```
piece1^piece2^piece3^piece4
```

```
where piece1 = File 2 IEN (i.e., DFN)
      piece2 = Start date/time for search (FileMan internal format)
      piece3 = End date/time for search (FileMan internal format)
      piece4 = 0 (zero)
```

```
RETURN PARAMETER DESCRIPTION:
RESULT array returns the data or a "NO DATA" message.
```

Case A: The NO DATA message is returned.

The TMP global returns:

```
^TMP($J,1)=lastname,first  social security number  date of birth  age
      "(Yrs)" gender
^TMP($J,2)="Unit:" unit  "Room:" room
^TMP($J,3)="Division:" division
^TMP($J,4)= search date range
^TMP($J,5)="NO DATA"
```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

External Relations

Example:

```
> S GMVDATA="90^3051012^3051012^0"
> D VMDATA^GMVGGR1(.RESULT,GMVDATA) ZW RESULT
> RESULT="^TMP(539349605)"
> D ^%G
> Global ^TMP($J
> ^TMP(539349605,1)=VITPATIENT,ONE 000-11-1234 JAN 2,1934 71 (Yrs)
    MALE
    2)=Unit: Room:
    3)=Division:
    4)=OCT 11,2005 - OCT 11,2005
    5)=NO DATA
```

Casee B: Fourth piece of GMVDATA (Flag) is 0

The TMP global returns:

```
^TMP($J,1)=lastname,first social security number date of birth age
    "(Yrs)" sex
^TMP($J,2)="Unit:" unit "Room:" room
^TMP($J,3)="Division:" division
^TMP($J,4)= search date range
^TMP($J,n)=piece1 through piece23
```

where piece1 = date of reading in mm-dd-yy format
piece2 = time of reading in hh:mm:ss format
piece3 = Temperature value and qualifier abbreviations
piece4 = Pulse value and qualifier abbreviations
piece5 = Respiration and qualifier abbreviations
piece6 = Pulse Oximetry value, qualifier abbreviations, flow rate
and percentage value
piece7 = Blood Pressure value and qualifier abbreviations
piece8 = Weight value (pounds) and qualifier abbreviations
piece9 = Weight value (kilos)
piece10 = Body Mass Index calculation
piece11 = Height value (inches) and qualifier abbreviations
piece12 = Height value (centimeters)
piece13 = Circumference Girth value (inches) and qualifier
abbreviations
piece14 = Circumference Girth value (centimeters)
piece15 = Central Venous Pressure value (cmH2O)
piece16 = Central Venous Pressure value (mmHg)
piece17 = Input value (from Intake & Output package)
piece18 = Output value (from Intake & Output package)
piece19 = Pain value
piece20 = always null
piece21 = always null
piece22 = hospital location (FILE 44, Field .01)
piece23 = name of person who entered the data (FILE 200, Field
.01)

Example:

```
> S GMVDATA="134^3050901^3050930^0"
> D VMDATA^GMVGGR1(.RESULT,GMVDATA) ZW RESULT
> RESULT="^TMP(539349605)"
> D ^%G
> Global ^TMP($J
> ^TMP(539349605,1)=VITPATIENT,TWO 000-11-1234 JUN 1,1957 48 (Yrs)
    FEMALE
    2)=Unit: 2-ASM Room:
```

```

3)=Division: TEST HINES
4)=SEP 1,2005 - SEP 30,2005
5)=09-14-05^17:18:00^^^^^135- A St^61.36^22^66-
  A^167.64^^^^^^^ ^^2-ASM^VITPROVIDER,ONE
6)=09-26-05^11:30:57^^^^^120/80*- La Si Car
  Clf^^^^^^^^^^^^^^^^^2-A SM^VITPROVIDER,TWO

```

ROUTINE: VMDATA GMVGGR1

```

14791      NAME: GMVHS
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: HEALTH SUMMARY
      USAGE: Private      ENTERED: DEC 20,2005
      STATUS: Active      EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
      FILE:      ROOT:
DESCRIPTION:      TYPE: Routine
This routine will return vital/measurement data for a patient over a given
date/time range.

```

```

ROUTINE: GMVHS
COMPONENT: EN1
VARIABLES: DFN

```

Input

Patient (#2) file internal entry number.
(Required)

GMRVSTR Input

The types of vital/measurments desired.
Use the abbreviation found in the Vital
Type (#120.51) file. For multiple vitals,
use the semi-colon (;) as a delimiter
(e.g., "T;P;R;BP"). (Required)

GMRVSTR(0) Input

GMRVSTR(0) = is a 4 part value.
(REQUIRED)

GMRVSTDT^GMRVENDT^GMRVOCC^GMRVSORD

where GMRVSTDT = The start date/time
that the utility will use in
obtaining patient data.
(Required)

GMRVENDT = The end date/time that
the utility will use to stop the
search. (Required)

GMRVOCC = The number of
occurrences of the data that is desired
by

the search. (Required)

GMRVSORD = The sort order desired
in the output. 0 will sort the
data by vital type,
then by date/time entered. 1 will
sort the data by
date/time entered, then vital type.
(Required)

GMRVSTR('L Input

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

```
GMRVSTR("LT") = ^TYP1^[TYP2^...]
(OPTIONAL)
```

This variable is a caret (^) delimited list of hospital location types to extract measurement data for. For example, "^C^" will extract data for only those measurements taken in clinics.

UTILITY(\$J Output

This is a global array.

The array structure will be as follows if '\$P(GMRVSTR,"^",4):

```
^UTILITY($J,"GMRVD",GMRVTYP,GMRVRDT,GMRVIEN)
=GMRVDATA
```

or if '\$P(GMRVSTR,"^",4) then the following will be returned:

```
^UTILITY($J,"GMRVD",GMRVRDT,GMRVTYP,GMRVIEN)
=GMRVDATA
```

```

where GMRVRDT = Reverse FileMan
date/time.
99999999-Date/time
vital/measurement was taken.
GMRVTYP = The abbreviation used
in the GMRVSTR string for the type
of vital/measurment
taken.
GMRVIEN = Entry number in file
Vital/Measurement (#120.5) file.
$P(GMRVDATA,"^",1) = date/time of
the reading (FileMan internal)
$P(GMRVDATA,"^",2) = Patient (#2)
number (i.e., DFN)
$P(GMRVDATA,"^",3) = vital type
ien (File 120.51)
$P(GMRVDATA,"^",4) = date/time of
data entry (FileMan internal)
$P(GMRVDATA,"^",5) = hospital
location ien (File 44)
$P(GMRVDATA,"^",6) = user ien
(File 200)
$P(GMRVDATA,"^",7) = always null
$P(GMRVDATA,"^",8) = reading
(e.g., 98.6, Unavailable)
$P(GMRVDATA,"^",9) = always null
$P(GMRVDATA,"^",10) = first
qualifier
$P(GMRVDATA,"^",11) = second
qualifier
$P(GMRVDATA,"^",12)= "*" for
abnormal measurement, otherwise =
" (i.e.,
null)
$P(GMRVDATA,"^",13)= values in
centigrade for T; kilos for WT;
centimeters
for HT and Circumference/Girth;
```

and mmHg for

CVP
 \$P(GMRVDATA,"^",14)= Body Mass
 Index value
 \$P(GMRVDATA,"^",15)= L/Min of
 supplemental O2
 \$P(GMRVDATA,"^",16)= % of
 supplemental O2
 \$P(GMRVDATA,"^",17)= all
 qualifiers delimited by semi-colons

Example:

```
> S DFN=134,GMRVSTR="T;P;R;BP;PN"
> S GMRVSTR(0)="3051001^3051031^10^0"
> D EN1^GMVHS
> D ^%G
> Global ^UTILITY($J,"GMRVD"
```

```
^UTILITY(539013315,"GMRVD","BP",6948978.8552
48,8961)=3051020.144752^134^1
```

```
^3051020.145023^87^547^^128/81^^L
ARM^SITTING^*****L ARM;SITTING
```

```
^UTILITY(539013315,"GMRVD","P",6948978.85524
8,8965)=3051020.144752^134^5^
```

```
3051020.145023^87^547^^44^^CAROTID^SITTING^^
^^^CAROTID;SITTING;PALPATED
```

```
^UTILITY(539013315,"GMRVD","PN",6948978.8552
48,8964)=3051020.144752^134^22
```

```
^3051020.145023^87^547^^0^^^^^^^^^^
```

```
^UTILITY(539013315,"GMRVD","R",6948978.85524
8,8967)=3051020.144752^134^3^
```

```
3051020.145023^87^547^^60^^SPONTANEOUS^SITTI
NG^*****SPONTANEOUS;SITTING
```

```
^UTILITY(539013315,"GMRVD","T",6948978.85524
8,8968)=3051020.144752^134^2^
```

```
3051020.145023^87^547^^98.6^^ORAL^^^37.0^^^
ORAL
```

Returns data for the patient and date range specified.

```
14831 NAME: GMV_VitalsViewEnter.dll
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING
USAGE: Private ENTERED: NOV 30,2005
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Other
```

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

This integration agreement allows the subscribing package to call the Dynamic Link Library (DLL) file named GMV_VitalsViewEnter.dll. This DLL is a Graphical User Interface (GUI) for entering and displaying patient vitals information.

This DLL is written in Delphi. It is called from another Delphi application. The entry points and input variables are Delphi, not M.

The following GMV-namespaced Remote Procedure Calls must be in the RPC (#320) field of the OPTION (#19) file entry used to create the Broker context. They are:

```
GMV ADD VM
GMV CONVERT DATE
GMV GET CATEGORY IEN
GMV GET CURRENT TIME
GMV GET VITAL TYPE IEN
GMV LATEST VM
GMV MANAGER
GMV PARAMETER
GMV USER
GMV VITALS/CAT/QUAL
GMV V/M ALLDATA
GMV EXTRACT REC
GMV MARK ERROR
GMV ALLERGY
GMV DLL VERSION
GMV LOCATION SELECT
```

These additional Remote Procedure Calls must be in the RPC (#320) field of the OPTION (#19) file entry used to create the Broker context. They are:

```
ORWPT PTINQ
VAFCTFU CONVERT DFN TO ICN
VAFCTFU CONVERT ICN TO DFN
```

```
ROUTINE:
COMPONENT: GMV_VitalsViewDLG(
VARIABLES: aDFN          Input
```

The variable type is String. This is a Patient (#2) file IEN. (Required)

```
        aLocation      Input
```

The variable type is String. Hospital Location (#44) file IEN. (Required).

```
        DateStart      Input
```

The variable type is String. This is the start of a date range in mm/dd/yy format. (Required).

```
        DateStop       Input
```

The variable type is String. This is the end of a date range in mm/dd/yy format. (Required)

```
        aSignature     Input
```

The variable type is String. This is a string of characters identifying the calling package (e.g., CPRS). (Required)

```
        aContextIn     Input
```

The variable type is String. This is the name of an option in the Option (#19) file that identifies the Broker context

		being used when entering the DLL (e.g., OR CPRS GUI CHART). (Required)
aContextOu	Input	The variable type is String. This is the name of an option in the Option (#19) file that identifies the Broker context value being used when exiting the DLL (e.g., OR CPRS GUI CHART). (Required)
aName	Input	The variable type is String. This is the patient's name (File 2, Field .01). (Required).
anInfo	Input	The variable type is String. This is the patient's social security number (e.g., 000-00-0000) (Required)
aHospitalN	Input	The variable type is String. This is a two part variable. The first part contains the name of a hospital location (File 44, Field .01). The second part is an abbreviation for a vital type (File 120.51, Field 1). The DLL will use the hospital location and vital abbreviation as default values. (Required).
aBroker	Input	Example: MICU^P The variable type is const. This is the Broker instance value of TRPCBroker. (Required)
This entry point opens up a data display containing a graph and grid containing the patient's data.		
All of the input variables for this entry point are required.		
The input variables are in the following order:		
aBroker		
aDFN		
aLocation		
DateStart		
DateStop		
aSignature		
aContextIn		
aContextOut		
aName		
anInfo		
aHospitalName		
COMPONENT:	GMV_VitalsEnterDLG(
VARIABLES:	aBroker	Input
		The variable type is const. This is the Broker instance value of TRPCBroker. (Required)
aPatient	Input	The variable type is String. This is a Patient (#2) file IEN (Required).
aLocation	Input	The variable type is String. This is a hospital location (File 44) IEN.

		(Required)
aTemplate	Input	The variable type is String. This is a null value (Required).
aSignature	Input	The variable type is String. This is a string of characters identifying the calling package (e.g., CPRS). (Required).
aDateTime	Input	The variable type is TDateTime. This is a date/time in Microsoft date/time format. (Required).
aPatientNa	Input	Example: 38656.59678 The variable type is String. This is the patient's name (File 2, Field .01). (Required).
aPatientIn	Input	The variable type is String. This variable contains a string of characters that identify the following three pieces of patient information; social security number, date of birth and age (e.g., 000-00-0000 MAY 20, 1966 (39)). (Required)

This entry point opens up a data input template for the user to begin entering patient vitals data.

All of the input variables for this entry point are required.

The input variables are in the following order:

```

aBroker
aPatient
aLocation
aTemplate
aSignature
aDateTime
aPatientName
aPatientInfo

```

```

14833    NAME: ADDRPCS FOR GUI 26
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING
      USAGE: Private      ENTERED: NOV  2,2005
      STATUS: Active      EXPIRES: OCT 27,2006
      DURATION:      VERSION:
      FILE:      ROOT:
      DESCRIPTION:      TYPE: Routine
This Integration Agreement is for the sole purpose of allowing the CPRS
GUI 26 post-install routine to add the GMRV RPCs to the CPRS option.

```

ROUTINE: GMV3PST

¹ April 2006 Patch GMRV*5.0*3 Added new Integration Agreement.

COMPONENT: ADDRPCS
VARIABLES:

9. Internal Relations

The namespace used for version 5 is GMV.

```
1NAME: GMV V/M GUI
  MENU TEXT: Vitals/Measurements GUI Application
  TYPE: Broker (Client/Server)
  PACKAGE: GEN. MED. REC. - VITALS
  DESCRIPTION: This option controls access to the GUI Vitals/Measurements
application.
  TIMESTAMP OF PRIMARY MENU: 60058,25451
RPC: GMV MANAGER
RPC: GMV ADD VM
RPC: GMV ALLERGY
RPC: GMV CLINIC PT
RPC: GMV CONVERT DATE
RPC: GMV CUMULATIVE REPORT
RPC: GMV ENTERED IN ERROR-PATIENT
RPC: GMV EXTRACT REC
RPC: GMV GET CURRENT TIME
RPC: GMV LATEST VITALS BY LOCATION
RPC: GMV LATEST VITALS FOR PATIENT
RPC: GMV LATEST VM
RPC: GMV MARK ERROR
RPC: GMV PT GRAPH
RPC: GMV PTSELECT
RPC: GMV QUALIFIER TABLE
RPC: GMV ROOM/BED
RPC: GMV TEAM PATIENTS
RPC: GMV V/M ALLDATA
RPC: GMV VITALS/CAT/QUAL
RPC: GMV WARD LOCATION
RPC: GMV WARD PT
RPC: GMV WARD/ROOM PATIENTS
RPC: GMV USER
RPC: GMV NUR UNIT PT
RPC: GMV CHECK DEVICE
RPC: GMV PARAMETER
RPC: ORWPT PTINQ
RPC: GMV GET CATEGORY IEN
RPC: GMV GET VITAL TYPE IEN
RPC: VAFCTFU CONVERT DFN TO ICN
RPC: VAFCTFU CONVERT ICN TO DFN
RPC: GMV DLL VERSION
RPC: GMV LOCATION SELECT
  UPPERCASE MENU TEXT: VITALS/MEASUREMENTS GUI APPLIC
```

¹ April 2006 Patch GMRV*5.0*3 Added six RPCs to end of list.

10. Package-wide Variables

No package-wide variables are used in this application.

11. SAC Exemptions

There is one SAC Exemption associated with this package.

VITALS/MEASUREMENTS

- 1 STANDARD SECTION: 1 ANSI
 DATE GRANTED: JAN 25, 1996
 Vitals/Measurements has been granted a SAC exemption to use the 1995 VA SAC
 #4.4.2.1 to use \$TEXT on a line that doesn't contain ;; to check for the existence of a
 routine.

12. Software Product Security

Security Management

No additional security measures are to be applied. Vitals/Measurements uses the standard RPC broker log-in procedure to validate the user and allow access to the system.

No additional licenses are necessary to run the software.

Confidentiality of staff and patient data and the monitoring of this confidentiality is no different than with any other paper reference.

Security Features

a. Mail groups and alerts.

There are no mail groups or alerts associated with this software.

b. Remote systems.

Application data is transmitted to the ¹Health Data Repository (HDR).

c. Archiving/Purging.

Refer to the chapter on Archiving and Purging, in this manual.

d. Contingency Planning.

It is the responsibility of the using service to develop a local contingency plan to be used in the event of application problems.

e. Interfacing.

No specialized (non VA) interfaces are used or required by the application.

f. Electronic signatures.

Electronic signatures are not used by the application.

g. Menus.

There are no options of special note for the Information Security Officers (ISO's) to view.

¹ April 2006 Patch GMRV*5.0*3 Added HDR reference.

h. Security Keys.

There is one security key in this application, it is GMV MANAGER. This new key allows a user to view/create/edit all other user's templates in the Vitals module, without this key the user can only view/create/edit his/her own user templates. This key also allows a user to use (run) other user's templates in the Vitals application. This key is required to access the Vitals Manager module. This key should be assigned to the package coordinator.

i. File Security.

NUMBER	NAME	GLOBAL NAME	DD ACC	RD ACC	WR ACC	DEL ACC	LAY ACC	AUD ACC
120.5	GMRV VITAL MEASUREMENT	^GMR(120.5,	@		@	@	@	
120.51	GMRV VITAL TYPE	^GMRD(120.51,	@		@	@	@	@
120.52	GMRV VITAL QUALIFIER	^GMRD(120.52,	@		@	@	@	@
120.53	GMRV VITAL CATEGORY	^GMRD(120.53,	@		@	@	@	@
120.57	GMRV VITALS PARAMETERS	^GMRD(120.57,	@		@	@	@	

j. References.

There are no special reference materials for this package.

k. Official Policies.

There are no special official policies for this package.

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 Vitals/Measurements 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.

BMI This is the patient's body mass index, which is calculated by dividing the person's weight in kilograms by the square of his height in meters.

Bulletin A canned message that is automatically sent by MailMan to a user when something happens to the database.

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.

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 Vitals software, for example, vitals data is stored in one global, and patient data is stored in another global.

GMRV This signifies the General Medical Record namespace assigned to the Vitals/Measurements application.

GMRY This signifies the General Medical Record namespace assigned to the Intake and Output application.

GMV Vitals/Measurements namespace, parent package to GMRV.

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.

I&O The Intake and Output application.

IRMS Information Resource Management Service.

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.

LAYGO An acronym for Learn As You Go. A technique used by VA FileMan to acquire new information as it goes about its normal procedure. It permits a user to add new data to a file.

M Formerly known as MUMPS or the Massachusetts (General Hospital) Utility Multi-Programming System. This is the programming language used to write all *VISTA* applications.

MailMan An electronic mail, teleconferencing, and networking system.

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

Module A component of the Vitals software application that covers a single topic or a small section of a broad topic.

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 Vitals package uses GMV as its namespace.

OIFO Office of Information Field Office, formerly known as Information Resource Management Field Office, and Information Systems Center.

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, the GMV V/M GUI is the main menu for the Vitals/Measurements 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 Vitals/Measurements applications).

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. When multiple protocols are associated with a single procedure (i.e., intravenous lines or IV lines), they are found grouped under a single option.

Qualifier A word that gives a more detailed description of an item.

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.

<RET> Carriage return.

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

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.

Site Configurable A term used to refer to features in the system that can be modified to meet the needs of each site.

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

Synonym A qualifier abbreviation appended to vitals/measurements numeric values on graphic reports.

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, usually utilizing a CRT.

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

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.

Vital Type A category of vital sign or measurement (e.g., pulse, respiration, blood pressure, temperature).

Workstation A personal computer running the Windows 9x or NT operating system.