## Revision History

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<th>Date</th>
<th>Revision</th>
<th>Description</th>
<th>Author</th>
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<tr>
<td>September 2009</td>
<td>5.0*23</td>
<td>Updated for Patch GMRV<em>5.0</em>23:</td>
<td>A. Bustamante, Paul Long (PM)</td>
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<td>- External Relations removed and replaced with instructions for finding them on FORUM, Ch. 8</td>
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<td>- Removed reference to timestamp, p. 9-1</td>
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<td>5.0*22</td>
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<td>A. Bustamante, Paul Long (PM)</td>
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<td>- Routine Descriptions, p. 5-9 through 5-34</td>
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<td>F. Traxler</td>
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<td>- Software Product Security, p. 12-1</td>
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<td>5.0</td>
<td>Initial Release</td>
<td>M. Gaddie</td>
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1  Patch GMRV*5.0*23  September 2009  Patch 23 release added.
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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.

Functionality¹

- 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.

- 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.

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¹ Patch GMRV*5.0*23 September 2009 Updated Functionality list, including the removal of support for archive/purge functionality.
• The displays include 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.

• Provides APIs so other VistA applications can send or receive patient data.

• Records a reason for the omission of a patient's vitals/measurements.

• Supports an interface to vital signs monitor connected to the workstation.

Information on GUI software

Internet WWW Documentation
Documentation for this product (including user manual, technical manual and package security guide, release notes, and installation guide) is available on the Internet (World Wide Web) from the VHA Software Document Library (VDL) <http://www.va.gov/vdl>:

1 http://vista.med.va.gov/clinicalspecialties/vitals/index.asp

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):

1 Patch GMRV*5.0*23 September 2009  Redirected documentation links to VDL instead of intranet.
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.)
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.

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1 Patch GMRV*5.0*23  September 2009  Updated screen capture.
**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.
Introduction

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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 and abnormal values.

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 some reports on Client (Windows) printers and other reports on VISTA (device file) printers.


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..

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1 Patch GMRV*5.0*23  September 2009  Items 5 and 8 were modified.
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.

¹ Patch GMRV*5.0*23  September 2009  Second paragraph removed.
**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 Requirements**

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

The client (disk) storage requirements are approximately:

<table>
<thead>
<tr>
<th>Type of Data</th>
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<tr>
<td>Vitals.exe</td>
<td>1900 k</td>
</tr>
<tr>
<td>VitalsManager.exe</td>
<td>1200 k</td>
</tr>
<tr>
<td>GMV_VitalsViewEnter.dll</td>
<td>1500 k</td>
</tr>
<tr>
<td>VITALS.HLP</td>
<td>41 k</td>
</tr>
<tr>
<td>VITALSMANAGER.HLP</td>
<td>22 k</td>
</tr>
<tr>
<td>GMV_VitalsViewEnter.hlp</td>
<td>23 k</td>
</tr>
</tbody>
</table>

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1 Patch GMRV*5.0*23  September 2009  Client Requirements list updated.
3. **Routine Descriptions**

GMVBMI ;HIOFO/YH,FT-EXTRACT HEIGHT TO CALCULATE BMI FOR WEIGHT;
::5.0;GEN. MED. REC. - VITALS;**3,23**;Oct 31, 2002

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

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

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

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

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

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

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

GMVCHAR ;HOIFO/YH,FT-EXTRACT CHARACTERISTIC DATA ;
::5.0;GEN. MED. REC. - VITALS; Oct 31, 2002

GMVCLIN ;HOIFO/YH,FT-RETURNS A LIST OF PATIENTS WITH CLINIC APPOINTMENTS WITHIN A GIVEN PERIOD ;
::5.0;GEN. MED. REC. - VITALS; Oct 31, 2002

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

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

GMVDCEXT ;HOIFO/DAD,FT-VITALS COMPONENT: EXTRACT PATIENT DATA ;
::5.0;GEN. MED. REC. - VITALS;**23**;Oct 31, 2002

GMVDCHELP ;HOIFO/DAD,FT-VITALS COMPONENT: HELP TEXT ;
::5.0;GEN. MED. REC. - VITALS; Oct 31, 2002

GMVDCRPC ;HOIFO/DAD-VITALS COMPONENT: RPCs ;
::5.0;GEN. MED. REC. - VITALS; Oct 31, 2002

GMVDCSAV ;HOIFO/DAD,FT-VITALS COMPONENT: SAVE DATA ;
::5.0;GEN. MED. REC. - VITALS;**9,3,23**;Oct 31, 2002

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

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

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

GMVDS0 ;HOIFO/YH,FT-DISPLAY LATEST VITALS/MEASUREMENTS ;
::5.0;GEN. MED. REC. - VITALS;**23**;Oct 31, 2002

GMVDS1 ;HOIFO/YH,FT-CURRENT VITALS BY PATIENT OR LOCATION ;
::5.0;GEN. MED. REC. - VITALS;**23**;Oct 31, 2002

GMVDS2 ;HOIFO/RM,YH,FT-VITAL SIGNS DISPLAY ;

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1 September 2009 Patch GMRV*5.0*23 Updated entire list of routines. Vitals routine list as of 5/23/08
GMVER0    : HOIFO/FT-VITALS ENTERED IN ERROR FOR A PATIENT ;
GMVER1    : HOIFO/RM,YH,FT-ENTERED IN ERROR FOR A PATIENT & DATE RANGE ;
GMVFSYN   : HOIFO/RM,YH,FT-X REFERENCE FOR VITAL TYPE, CATEGORY AND SYNONYM ;
GMVFUT0   : HOIFO/RM,FT-FILE UTILITIES FOR 120.5 FILE ;
GMVFUT2   : HOIFO/RM,FT-FILE UTILITIES FOR 120.52 FILE ;
GMVFUT3   : HOIFO/RM,FT-FILE UTILITIES FOR 120.53 FILE ;
GMVGETC   : HOIFO/FT-GET CATEGORY INFORMATION ;
GMVGETD   : HOIFO/YH,FT-EXTRACTS WARD/ROOM-BED/PT AND PT VITALS ;
GMVGETD1  : HOIFO/YH-EXTRACT VITALS/MEASUREMENT RECORDS FOR A GIVEN DATE ;
GMVGETD2  : HOIFO/YH-EXTRACT VITALS/MEASUREMENT RECORDS FOR A GIVEN DATE (CONT.) ;
GMVGETQ   : HOIFO/YH,FT-UTILITIES TO OBTAIN DATE/TIME, HOSPITAL, DUZ, VITAL CATEGORY AND EDIT V/M ;
GMVGETQL  : HOIFO/FT-GET QUALIFIER INFORMATION ;
GMVGETVT  : HOIFO/FT-GET VITAL TYPE INFORMATION ;
GMVGR0    : HOIFO/MH,YH,FT-VITALS GRAPH (PART 1) ;
GMVGR1    : HOIFO/YH,FT-SET ^TMP($J) GLOBAL ;
GMVGR2    : HOIFO/YH,FT-VITALS GRAPH KYOCERA DEFINE MACRO (PART 1) ;
GMVGR3    : HOIFO/YH,FT-VITALS GRAPH KYOCERA DEFINE MACRO (PART 2) ;
GMVGR4    : HOIFO/YH,FT-VITALS GRAPH KYOCERA PRINT COMMANDS (PART 1) ;
GMVGR5    : HOIFO/RM,YH,FT-TMP TO EXTRACT DATA FROM IO PACKAGE ;
GMVGR6    : HOIFO/YH,FT-VITALS GRAPH KYOCERA PRINT COMMANDS (PART 2) ;
Routine Descriptions

GMVGR7 :HIOFO/YH, FT-VITALS GRAPH KYOCERA DEFINE MACRO FOR PULSE OX./CG/CVP;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHB0 :HIOFO/YH, FT-HP LASER B/P GRAPH - DATA ARRAY;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHB1 :HIOFO/YH, FT-HP LASER B/P GRAPH - FORM;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHB2 :HIOFO/YH, FT-HP LASER B/P GRAPH - BOX DATA;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHB3 :HIOFO/YH, FT-HP LASER B/P GRAPH - ID;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHB4 :HIOFO/YH, FT-HP LASER B/P GRAPH - ^TMP DATA;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHDR :HI OFO/FT-HEALTH DATA REPOSITORY API;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHG0 :HIOFO/YH, FT-HP LASER SF511 GRAPH - DATA ARRAY;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHG1 :HIOFO/YH, FT-HP LASER SF511 GRAPH - FORM;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHG2 :HIOFO/YH, FT-HP LASER SF511 GRAPH - BOX DATA;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHG3 :HIOFO/YH, FT-HP LASER SF511 GRAPH - ID;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHG4 :HIOFO/YH, FT-HP LASER SF511 GRAPH - ^TMP DATA;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHPN0 :HIOFO/YH, FT-PULSE OXIMETRY/RESP. GRAPH - DATA ARRAY;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHPN1 :HIOFO/YH, FT-PULSE OXIMETRY/RESP. GRAPH - BOX DATA;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHPN2 :HIOFO/YH, FT-PULSE OXIMETRY/RESP. GRAPH - ID;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHPN3 :HIOFO/YH, FT-PULSE OXIMETRY/RESP. GRAPH - ^TMP DATA;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHS :HIOFO/FT-RETURN PATIENT DATA UTILITY;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHS1 :HIOFO/FT-RETURN PATIENT DATA UTILITY (cont.); 
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHW0 :HIOFO/YH, FT-HP LASER WEIGHT CHART - DATA ARRAY;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHW1 :HIOFO/YH, FT-HP LASER WEIGHT CHART - FORM AND GRAPH;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVHW2 :HIOFO/YH, FT-HP LASER WEIGHT CHART - BOX DATA;
;:5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVKPN0 :HCIOFO/YH, FT-KYOCERA PAIN CHART - DATA ARRAY;
Routine Descriptions

GMVKPN1 : HIOFO/YH, FT-KYOCERA PAIN CHART MACRO-1 ;

GMVKPN2 : HIOFO/YH, FT-KYOCERA KYOCERA PAIN CHART PRINT COMMANDS (PART 1) ;

GMVKPO0 : HIOFO/YH, FT-KYOCERA PULSE OXIMETRY/RESP. GRAPH - DATA ARRAY ;

GMVKPO1 : HIOFO/YH, FT-KYOCERA PULSE OXIMETRY/RESP. GRAPH - GRAPH DATA ;

GMVKPO2 : HIOFO/YH, FT-KYOCERA PULSE OXIMETRY/RESP. MACRO-1 ;

GMVKPO3 : HIOFO/YH, FT-KYOCERA PULSE OXIMETRY/RESP. GRAPH - MACRO 2 ;

GMVKPO4 : HIOFO/YH, FT-GRAPH KYOCERA PRINT COMMANDS (PART 1) ;

GMVLAT0 : HIOFO/YH, FT-DISPLAY LATEST VITALS/MATHEMATIC FOR A PATIENT ;

GMVLATS : HIOFO/YH, FT-QUEUE LATEST VITALS/MATHEMATIC ;

GMVLBP0 : HIOFO/YH, FT-PATIENT BLOOD PRESSURE LINE PRINTER GRAPH - 1 ;

GMVLBP1 : HIOFO/YH, FT-SYSTOLIC/DIASTOLIC GRAPH ;

GMVLBP2 : HIOFO/YH, FT-SET GRAPH LOWER BOX DATA ;

GMVLGQU : HIOFO/YH, FT-UTILITY FOR LEGEND, PO2 AND QUALIFIER ;

GMVLPO0 : HIOFO/YH, FT-DOT MATRIX OXIMETRY/RESP. GRAPH - DATA ARRAY ;

GMVLPO1 : HIOFO/YH, FT-DOT MATRIX PULSE OXIMETRY AND RESPIRATION GRAPH ;

GMVLPO2 : HIOFO/YH, FT-DOT MATRIX HIOFO/YH-PULSE OX. AND RESPIRATION DATA ;

GMVLWT0 : HIOFO/YH, FT-DOT MATRIX WEIGHT GRAPH - DATA ARRAY ;

GMVLWT1 : HIOFO/YH, FT-DOT MATRIX PATIENT WEIGHT GRAPH - 2 ;

GMVLWT2 : HIOFO/YH, FT-DOT MATRIX WEIGHT GRAPH - 3 ;

GMVLWT3 : HIOFO/YH, FT-DOT MATRIX PATIENT WEIGHT GRAPH - 4 ;

GMVPAR : HIOFO/DP - XPARarameter RPC ;

GMVPC3 : HIOFO/RM, FT-VM Data Validation for AICS ;

GMVXRM : HIOFO/FT-API to return FILE 120.5 data ;

GMVQUAL : HIOFO/YH, FT-VITAL QUALIFIERS ;
Routine Descriptions

GMVRPCHL ;HIOFO/FT-RPC FOR HOSPITAL LOCATION SELECTION ;
;;5.0;GEN. MED. REC. - VITALS;**3,22**;Oct 31, 2002
GMVRPCM ; HOIFO/DP - RPC for Vitals Manager ;
;;5.0;GEN. MED. REC. - VITALS;**1,8,13,3**;Oct 31, 2002
GMVRPCP ; HOIFO/DP-RPC for GMV_PtSelect.pas ;
;;5.0;GEN. MED. REC. - VITALS;**1,3,22**;Oct 31, 2002
GMVRPCU ; HOIFO/DP - RPC for Vitals User ;
;;5.0;GEN. MED. REC. - VITALS;**3**;Oct 31, 2002
GMVSAS0 ; HIOFO/RM,YH,FT-CALCULATE ABNORMAL V/S ;
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVSC0 ; HOIFO/MD,YH,FT-CUMULATE VITALS/MEASUREMENTS FOR PATIENT OVER GIVEN DATE RANGE ;
;;5.0;GEN. MED. REC. - VITALS;**23**;Oct 31, 2002
GMVSC1 ; HOIFO/YH,FT-CUMULATE V/M - CONTINUED ;
;;5.0;GEN. MED. REC. - VITALS;**23**;Oct 31, 2002
GMVSC2 ; HIRMFO/YH,FT-CUMULATE V/M - CONTINUED ;
;;5.0;GEN. MED. REC. - VITALS;**23**;Oct 31, 2002
GMVSR0 ; HOIFO/RM,YH,FT-VITAL SIGNS RECORD SF 511 ;
;;5.0;GEN. MED. REC. - VITALS;**23**;Oct 31, 2002
GMVSR1 ; HOIFO/RM,YH-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 1 ;
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVSR2 ; HOIFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 2 ;
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUID ; HOIFO/FT-RELATED UTILITIES ;
;;5.0;GEN. MED. REC. - VITALS;**8**;Oct 31, 2002
GMVUT0 ; HOIFO/RM,YH,FT-INPUT TRANSFORMS FOR VITAL TYPES ;
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUT2 ; HOIFO/YH,RM,FT-ENTRY TO GATHER PATIENT VITAL/MESUREMENT DATA ;
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUT3 ; HOIFO/YH,FT-VITAL MEASUREMENT SITE/QUALIFIER SELECTION ;
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUTL ; HOIFO/RM,MD,FT-CALLABLE ENTRY POINTS FOR PROGRAMMER UTILITIES ;
;;5.0;GEN. MED. REC. - VITALS;**23**;Oct 31, 2002
GMVUTL1 ; HOIFO/YH,FT-EXTRACT CLINIC LIST AND MARK VITALS ENTERED IN ERROR ;
;;5.0;GEN. MED. REC. - VITALS;**1,3**;Oct 31, 2002
GMVUTL2 ; HOIFO/YH,FT-BP HIGH/LOW LIMITS AND DEFAULT QUALIFIER; 
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUTL3 ; HOIFO/YH,FT-RPCBROKER UTILITY ROUTINE TO EXTRACT NURSING UNIT/ROOM-BED - 3 ;
;;5.0;GEN. MED. REC. - VITALS;**3**;Oct 31, 2002
GMVUTL7 ; HOIFO/DS,FT-RPC API TO RETURN ALL VITALS/CATEGORIES/QUALIFIERS ;
;;5.0;GEN. MED. REC. - VITALS;**3**;Oct 31, 2002
GMVUTL8 ; HOIFO/DS,FT-RPC API TO RETURN ALL VITALS/CATEGORIES/QUALIFIERS ;
;;5.0;GEN. MED. REC. - VITALS;**1,3**;Oct 31, 2002
GMVVDEF1 ; BPOIFO/JG,HIOFO/FT - BUILD HL7 ORU*R01 MESSAGE FOR VITALS ;
;;5.0;GEN. MED. REC. - VITALS;**5,8,12,17,11**;Oct 31, 2002
GMVVDEFK ; BPOIFO/JG,HIOFO/FT - KIDS POST INSTALL FOR VDEF PATCH ;
;;5.0;GEN. MED. REC. - VITALS;**5**;Oct 31, 2002
GMVVS1 ; HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 1 ;
Vitals/Medical Record

Routine Descriptions

VITALS

; 5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVVS2  :HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 2;
; 5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVVS3  :HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 3;
; 5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMVVS4  :HIOFO/YH,FT-PATIENT VITAL SIGNS-GRAPH;
; 5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMWVT0  :HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - DATA ARRAY;
; 5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMWVT1  :HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - GRAPH DATA;
; 5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMWVT2  :HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - MACRO;
; 5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMWVT3  :HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - MACRO (CONT.);
; 5.0;GEN. MED. REC. - VITALS; Oct 31, 2002
GMWVT4  :HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - MACRO CALL;
; 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

<table>
<thead>
<tr>
<th>FILE #</th>
<th>NAME</th>
<th>UP</th>
<th>SEND</th>
<th>DATA</th>
<th>COMES</th>
<th>SITE</th>
<th>RSLV</th>
<th>OVER</th>
</tr>
</thead>
<tbody>
<tr>
<td>120.5</td>
<td>GMRV VITAL MEASUREMENT</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120.51</td>
<td>GMRV VITAL TYPE</td>
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<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>120.52</td>
<td>GMRV VITAL QUALIFIER</td>
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<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>NO</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>120.53</td>
<td>GMRV VITAL CATEGORY</td>
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<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>120.57</td>
<td>GMRV VITALS PARAMETERS</td>
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<td>YES</td>
<td>ADD</td>
<td>NO</td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>
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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. 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).

1 Patch GMRV*5.0*23 September 2009 Deleted Delphi version number.
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%)
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
ROUTINE: GMVUTL2
AVAILABILITY: RESTRICTED
WORD WRAP ON: TRUE

DESCRIPTION:
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
REQUIRED: YES
SEQUENCE NUMBER: 1

DESCRIPTION:
The value to begin the search in the Device file (#3.5). Can be null.

INPUT PARAMETER: GMVDIR
MAXIMUM DATA LENGTH: 1
SEQUENCE NUMBER: 2

DESCRIPTION:
Direction of the search (1 = forward, -1 = backwards).
If DIR is null, then set to 1.

INPUT PARAMETER: GMVRMAR
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
ROUTINE: GMVCLIN
AVAILABILITY: RESTRICTED
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
MAXIMUM DATA LENGTH: 30
SEQUENCE NUMBER: 1

DESCRIPTION:
CLIN contains the name of the selected clinic from the Hospital Location file (#44).

INPUT PARAMETER: BDATE
MAXIMUM DATA LENGTH: 30
SEQUENCE NUMBER: 2

DESCRIPTION:
BDATE contains TODAY, TOMORROW, YESTERDAY, PAST WEEK or PAST MONTH.

---

1 April 2006 Patch GMRV*5.0*3 Updated the routine description.
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 CLOSEST READING  TAG: CLOSEST
ROUTINE: GMVGETD  RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: RESTRICTED  INACTIVE: ACTIVE
DESCRIPTION:
This remote procedure call returns the observation date/time and reading
of the record closest to the date/time specified for the patient and vital
type.

INPUT PARAMETER: GMVDFN  PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 12  REQUIRED: YES
SEQUENCE NUMBER: 1
DESCRIPTION:
A pointer to the Patient (#2) file (i.e., DFN).

INPUT PARAMETER: GMVDT  PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 14  REQUIRED: NO
SEQUENCE NUMBER: 2
DESCRIPTION:
The date/time to search from. The default is NOW.

INPUT PARAMETER: GMVT  PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 5  REQUIRED: YES
SEQUENCE NUMBER: 3
DESCRIPTION:
The vital type abbreviation as it appears in FILE 120.51, Field 1 (e.g.,
WT).

INPUT PARAMETER: GMVFLAG  PARAMETER TYPE: LITERAL
MAXIMUM DATA LENGTH: 1  REQUIRED: NO
SEQUENCE NUMBER: 4
DESCRIPTION:
A flag to indicate if the search should look before or after the date/time
specified in the GMVDT value where 1 indicates before, 2 indicates after
and 0 indicates either direction.

RETURN PARAMETER DESCRIPTION:
Returns a string composed of two pieces. The first piece contains the
observation date/time (FILE 120.5, Field .01) of the record that was
found. The second piece contains the rate (FILE 120.5, Field 1.2) of the
record. If there is an error, the first piece will be -1 and the second
piece will be the error text.

Example:
> S GMVDFN=134,GMVDT=3090225.08,GMVT="WT",GMVFLAG=0
> D CLOSEST(.TEST,GMVDFN,GMVDT,GMVT,GMVFLAG) ZW TEST
> TEST="3081106.142926^135"

NAME: GMV CONVERT DATE  TAG: GETDT
ROUTINE: GMVGETQ  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

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1 September 2009 Patch GMRV*5.0*23  Added new routine and description.
2 April 2006 Patch GMRV*5.0*3  Updated the routine description.
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."

NAME: GMV DLL VERSION     TAG: DLL
ROUTINE: GMVVU18     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.

1 April 2006 Patch GMRV*5.0*3 Added new routine and description.
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
Piece 2: Start date/time of the report range (FileMan format)
Piece 3: End date/time of the report range (FileMan format)
Piece 4: n/a
Piece 5: Device name (File 3.5, Field .01)
Piece 6: Device internal entry number
Piece 7: Date/time to print the report (FileMan format)
Piece 8: n/a
Piece 9: n/a
Piece 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

**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:

```plaintext
piece1^piece2^piece3^piece4
```

where piece1 = Patient (#2) file pointer (i.e., DFN)
Piece 2 = End date of search (FileMan internal format)
Piece 3 = 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"
Piece 4 = Start date of search (FileMan internal format)

**RETURN PARAMETER DESCRIPTION:**
Returns the name of the global array (i.e., ^TMP($J,"GRPC")) containing a

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

Vitals/Measurements 5.0  October 2002

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^GMGETD(.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,
<br>SITTING, CAROTID, CALF) _VITPROVIDER,ONE
> 2)=8961^10/20/05@14:47   B/P:   128/81*  (L ARM,
<br>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
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
DESCRIPTION:
Gets the current date and time from the server.

This remote procedure call is documented in Integration Agreement 4355.

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

NAME: GMV GET VITAL TYPE IEN

TAG: TYPE
ROUTINE: GMVUTL8
AVAILABILITY: SUBSCRIPTION
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
AVAILABILITY: RESTRICTED
DESCRIPTION:
Prints the latest vitals/measurements for all patients on a given ward
location.

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

---

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

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, person who entered the record and the database where the record is stored.

1 Patch GMRV*5.0*23 September 2009  Updated routine description.
If there is no data for the patient, the following is returned:
^TMP($J,"GRPC",1)=There are no results to report

Example:
> $ GMRDFN=134
> D GETLAT^GMGETD(.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_Vitals
> 2)=Pulse:        (07/14/05@16:33)  55
(LEFT,CAROTID,PALPATED,LYING)  _VITPROVIDER,ONE_Vitals
Enter RETURN to continue or '^' to exit:
>                       3)=Resp.:       (07/14/05@16:33)  31
(SPONTANEOUS,SITTING)  _VITPROVIDER,ONE_Vitals
> 4)=Pulse Ox:     (08/22/05@013:48)  99% with
supplemental O2 1 L/min 90% NASAL CANNULA  _VITPROVIDER,ONE_Vitals
> 5)=B/P:        (09/26/05@11:30)  120/80* (L
ARM,SITTING,CAROTID,CALF)  _VITPROVIDER,ONE_Vitals
> 6)=Ht.:   (09/14/05@17:18)  5 ft 6 in (167.64
cm) (ACTUAL)  _VITPROVIDER,ONE_Vitals
> 7)=Wt.:   (09/14/05@17:18)  135 lb  (61.36 kg)
(ACTUAL,STANDING) _VITPROVIDER,ONE_Vitals
> 8)=Body Mass Index:    22
> 9)=CVP:   (08/22/05@17:09)  15 cmH2O (11.0
mmHg)  _VITPROVIDER,ONE_Vitals
> 10)=Circ/Girth: (07/22/05@10:22)  1 in (2.54 cm)
(DRY,ABDO MINAL)  _VITPROVIDER,ONE_Vitals
> 11)=Pain: (09/15/05@16:43)  5
(_VITPROVIDER,ONE_Vitals

1NAME: GMV LOCATION SELECT
ROUTINE: GMVRPCHL
RETURN VALUE TYPE: GLOBAL ARRAY
AVAILABILITY: SUBSCRIPTION
WORD WRAP ON: TRUE

2DESCRIPTION:
Select a hospital location by name, from a patient appointment or from a
patient admission. Can also generate a list of active clinics.

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:
Exported Options

^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^GMVRFCHL(.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^GMVRFCHL(.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

4) When the OPTION value is CLINIC, this RPC will return a list of active clinics.

The DATA value is FROM^MAXIMUM^DIRECTION.

Where:
FROM = Value to begin the search (optional). Default is null (i.e., start with the first entry in the B x-ref).
MAXIMUM = Maximum number of entries to return. (optional)
    Default is 100.
DIRECTION = Direction of search (optional). 1 means forward and -1
means backwards. Default is 1.

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

where piece1 = number of entries found
piece2 = 44;ien (44, a semi-colon and the entry number)
piece3 = location name (FILE 44, Field .01)
n is a sequential number starting with zero

Example:
> $ OPTION="CLINIC",DATA="A^5^1"
> $ K RESULTS D RPC^GMVRPCHL(.RESULTS,OPTION,DATA) ZW RESULTS
> $ RESULTS="^TMP("GMVHLOC",540221719)"
> $ D ^%G
> $ Global ^TMP("GMVHLOC",$J
> ^TMP("GMVHLOC",540221719,0)=5
> 1)=44;140^ANDY'S AUDIO NON-COUNT CLINIC
> 2)=44;139^ANDY'S AUDIOLOGY COUNT CLINIC
> 3)=44;76^AUDIOLOGY AND SPEECH PATHOLOGY
> 4)=44;87^BARB'S CLINIC
> 5)=44;217^BOISE OUTPATIENT

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

NAME: GMV MANAGER
ROUTINE: GMVRPCM
TAG: RPC
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:
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.

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

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:

```plaintext
> 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"," ^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:

```plaintext
> 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"," ^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:

```plaintext
> 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"," ^TMP("GMVMGR",539356158,0)=1
```
> ^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,0)=1^PULSE OXIMETRY
> ^TMP("GMVMGR",539356158,0)=1^METHOD^AEROSOL/HUMIDIFIED MASK, CPAP, FACE TENT, L ARM, MASK, NASAL CANNULA, NON RE-BREATHER, PARTIAL RE-BREATHER, 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,0)=BP
> ^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:

\[
^\text{TMP}("\text{GMVMGR,}$J,0)\text{=}\text{piece1} \\
^\text{TMP}("\text{GMVMGR,}$J,n)\text{=}\text{piece2}^{\text{piece3}}
\]

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:

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

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:

\[
^\text{TMP}("\text{GMVMGR,}$J,0)=\text{template name}
\]

Example B:

\[
\begin{align*}
> & \text{S DATA=}\text{"USR"} \\
> & \text{S OPTION=}\text{"GETDEF"} \\
> & \text{D RPC}^\text{GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT} \\
> & \text{RESULT=}\text{"^\text{TMP}("GMVMGR",539356158)"} \\
> & \text{D }^%G \\
> & \text{Global }^\text{TMP}("\text{GMVMGR,}$J \\
> & ^\text{TMP}("\text{GMVMGR,}539356158,0)=\text{MY DEFAULT}
\end{align*}
\]

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:

\[
^\text{TMP}("\text{GMVMGR,}$J,0)=\text{field value}
\]

Example:

\[
\begin{align*}
> & \text{S DATA=}5.2 \\
> & \text{S OPTION=}\text{"GETHILO"} \\
> & \text{D RPC}^\text{GMVRPCM(.RESULT,OPTION,DATA) ZW RESULT} \\
> & \text{RESULT=}\text{"^\text{TMP}("GMVMGR",539356158)"}
\end{align*}
\]
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
Exported Options

> 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

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 defintions.

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:
Exported Options

^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
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"
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^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.

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 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., -l"error message) is returned.

NAME: GMV MARK ERROR
TAG: ERROR
ROUTINE: GMVUTL1
AVAILABILITY: SUBSCRIPTION
RETURN VALUE TYPE: SINGLE VALUE
ACTIVE

DESCRIPTION:
This remote procedure call marks a selected vital 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
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
AVAILABILITY: RESTRICTED
RETURN VALUE TYPE: ARRAY
ACTIVE

DESCRIPTION:
Returns a list of active patients for a nursing location.

INPUT PARAMETER: LOC
MAXIMUM DATA LENGTH: 60
REQUIRED: YES
SEQUENCE NUMBER: 1

DESCRIPTION:
NURS LOCATION file (#211.4) ien.

1 April 2006 Patch GMRV*5.0*3 Updated the routine description.
2 April 2006 Patch GMRV*5.0*3 Updated the routine description.
RETURN PARAMETER DESCRIPTION:
ARRAY - Subscripted by sequential number with DFN in first piece and patient name in second piece.

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

NAME: GMV PARAMETER
ROUTINE: GMVPAR
AVAILABLE: SUBSCRIPTION
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
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.

1 April 2006 Patch GMRV*5.0*3 Updated the routine description.
The TMP global contains:
\[ ^\text{TMP}($J,0)=1 \] ^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="^\text{TMP}(538999278)"
> D ^\%G
> Global ^\text{TMP}($J
> ^\text{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:
\[ \text{TMP}($J,0) = \text{external value} \]

Example:
> S OPTION="ENTVAL",ENT="USR"
> D RPC(.RESULT,OPTION,ENT) ZW RESULT
> RESULT="^\text{TMP}(538993252)"
> D ^\%G
> Global ^\text{TMP}($J
> ^\text{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:
\[ ^\text{TMP}($J,0)=\text{piece1} \]
\[ ^\text{TMP}($J,n)=\text{piece2}^\text{piece3} \]

where
- \text{piece1} = \text{number of entries returned}
- \text{piece2} = \text{instance name}
- \text{piece3} = \text{instance value}
- \text{n} = \text{sequential number starting with 1}

Example:
> S OPTION="GETLST",ENT="USR",PAR="GMV USER DEFAULTS"
> D RPC(.RESULT,OPTION,ENT,PAR) ZW RESULT
> RESULT="^\text{TMP}(538993252)"
> D ^\%G
> Global ^\text{TMP}($J
> ^\text{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:
\[ ^\text{TMP}($J,0)=\text{piece1} \]

where \text{piece1} = \text{value}
Exported Options

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: GMV DATA  
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

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
NAME: **GMV ROOM/BED**

ROUTINE: GMVGETD

AVAILABILITY: RESTRICTED

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

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",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**

ROUTINE: GMVUTL3

AVAILABILITY: RESTRICTED

WORD WRAP ON: TRUE

DESCRIPTION:
This procedure retrieves patients assigned to a given team.

INPUT PARAMETER: GMVTEAM

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**

ROUTINE: GMVRPCU

AVAILABILITY: SUBSCRIPTION

WORD WRAP ON: TRUE

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

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

\[\text{^TMP\("GMVUSER",J,0)=1^Parameter set.}\]

or

\[\text{^TMP\("GMVUSER",J,0)=1^Parameter cleared}\]

**Example:**

\[\text{> S DATA=\"DefaultTemplate^547;VA(200,|MY DEFAULT",OPTION=\"SETPAR\")}\]
\[\text{> D RPC^GMVRPCU(RESULTS,OPTION,DATA) ZW RESULT}\]
\[\text{> RESULT=\"^TMP\("GMVUSER",539374023\")}\]
\[\text{> D ^%G}\]
\[\text{> Global ^TMP\("GMVUSER",J\)}\]
\[\text{> ^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:

\[\text{^TMP\("GMVUSER",J,0)=value of setting or null}\]

**Example:**
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;VA(200,|ONE VITAL TYPE ONLY| #200=539375907,1=VITUSER,2=334,3=DEV.DEV.FO-HINES.MED.VA.GOV,4=499,5=SUPPORT ISC,6=1,7=PROGRAMMER,8=9999,9=499^SUPPORT ISC^499

NAME: GMV V/M ALLDATA
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.

1 Patch GMRV*5.0*23 September 2009 Updated routine description.
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:

\[ \text{piece1}^\text{piece2}^\text{piece3}^\text{piece4} \]

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:

\[ ^\text{TMP($J,1)=last name,first name social security number date of birth age } \]
\[ "(Yrs)" gender \]
\[ ^\text{TMP($J,2)="Unit:" unit "Room:" room} \]
\[ ^\text{TMP($J,3)="Division:" division} \]
\[ ^\text{TMP($J,4)= search date range} \]
\[ ^\text{TMP($J,5)="NO DATA"} \]

Example:

> S GMVDATA="90^3051012^3051012^0"
> D VMDATA^GMVGGR1(.RESULT,GMVDATA) ZW RESULT
> RESULT="^\text{TMP(539349605)}"
> D ^%G
> Global ^\text{TMP($J=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:

\[ ^\text{TMP($J,1)=last name,first name social security number date of birth age } \]
\[ "(Yrs)" sex \]
\[ ^\text{TMP($J,2)="Unit:" unit "Room:" room} \]
\[ ^\text{TMP($J,3)="Division:" division} \]
\[ ^\text{TMP($J,4)= search date range} \]
\[ ^\text{TMP($J,n)=piece1 through piece23} \]

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)
piece24 = database where the record is stored

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^Vitals
6)=09-26-05^11:30:57^^^^^^120/80*- La Si Car
Clf^^^^^^^^^^^^^^^2-ASM^VITPROVIDER,TWO^Vitals.

NAME: GMV VITALS/CAT/QUAL TAG: GETVITAL
ROUTINE: GMVUTL7 RETURN VALUE TYPE: ARRAY
AVAILABILITY: SUBSCRIPTION 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

---

1 April 2006 Patch GMRV*5.0*3 Updated the routine description.
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 the Ward Location file (#42).

INPUT PARAMETER: DUMMY

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 1

REQUIRED: NO

SEQUENCE NUMBER: 1

DESCRIPTION:

When this input parameter is set to the letter "P", only wards that have patients will be returned. Otherwise, all active wards will be returned.

RETURN PARAMETER DESCRIPTION:

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

\[ ^\text{TMP}($J,"GWARD",n)=\text{piece1}^\text{piece2}^\text{piece3} \]

where:

- piece1 = ward IEN (FILE 42)
- piece2 = ward name (FILE 42, Field .01)
- piece3 = hospital location IEN (FILE 44)

n is a sequential number starting at 1.

Example:

```plaintext
> S DUMMY="P"
> D WARDLOC^GMVGETD(.RESULT,DUMMY) ZW RESULT
> RESULT="^\text{TMP}(540221719,"GWARD")"
> D ^%G
> Global ^\text{TMP}($J,"GWARD"
> ^\text{TMP}(540221719,"GWARD",1)=2^\text{1AS}^2
> 2)=1^\text{2-AS}^1
> 3)=13^\text{2-ASM}^67
> 4)=25^\text{214-2 DOM}^149
> 5)=3^\text{3AS}^128
> 6)=4^\text{4AS-1}^4
> 7)=22^\text{4B}^153
> 8)=23^\text{4C}^155
> 9)=24^\text{4D}^154
> 10)=12^\text{5NM}^63
> 11)=6^\text{6AS}^10
> 12)=7^\text{7AS}^11
> 13)=8^\text{DOM}^23
> 14)=10^\text{MICU}^36
> 15)=5^\text{NHCU}^5
```

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:

---

1 June 2008 Patch GMRV*5.0*22 Updated description.

---

Vitals/Measurements 5.0


5-34

October 2002
Returns the name of the global array containing the list of patients on the selected ward (i.e., \(^\text{TMP}(\$J, "GMRPT")\)).

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

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

**DESCRIPTION:**
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:**
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**

**NAME:** 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.

**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 LATE VM  
**RPC:** GMV MARK ERROR  
**RPC:** GMV PT GRAPH  
**RPC:** GMV PTSELECT  
**RPC:** GMV QUALIFIER TABLE  
**RPC:** GMV ROOM/BED  
**RPC:** GMV TEAM PATIENTS

---

1 April 2006 Patch GMRV*5.0*3 Updated the routine description.
2 September 2009 Patch GMRV*5.0*23 Updated Menu Option By Name list.
Exported Options

RPC: GMV V/M ALDATA
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
RPC: GMV CLOSEST READING

UPPERCASE MENU TEXT: VITALS/MEASUREMENTS GUI APPLIC
6. Archiving and Purging

No provisions for archiving or purging have been made for this release and none are planned for the future.

---

1 Patch GMRV*5.0*23 September 2009 Removed archive/purge instructions.
Archiving and Purging

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7. Callable Routines

There are no callable routines.
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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. Interface Control Registrations (formerly known as Integration Agreements) between the Vitals/Measurements software and other VistA applications exist. Database Interface Control Registrations (DICR) are available on the DBA menu on Forum. For complete information regarding the DICRs for Vitals V. 5.0, please refer to the Integration Control Registrations (Agreements) Menu [DBA IA ISC] option under the DBA [DBA] option on FORUM.

The following screen capture shows one way to access the DBA option in FORUM:

Select Software Services Primary Menu Option: DBA MENU

NAME NAMESPACE AND FILESPACE REGISTRATIONS ... 
IAs INTEGRATION CONTROL REGISTRATIONS ...
PKG PACKAGE FILE INFORMATION ...
STN INSTITUTION FILE INFORMATION ...
STND STANDARDS ...

Select DBA MENU Option: IAS INTEGRATION CONTROL REGISTRATIONS

HELP Instructions for Entering ICRs
GET# GET NEW Integration Control Registration #(#s)
ADD ADD/EDIT Pending Integration Control Registration
ROLL Roll up ICR into Mail Message
FILE File-type Integration Control Registrations Menu ...
ROU Routine-type ICRs Menu ...
RPC Remote Procedure Call-type ICRs Menu ...
OTH Print 'Other'-type ICRs
SUPP Supported References Menu ...
CONT Controlled Subscription ICRs Menu ...
PRIV Private ICRs Menu ...
CUST Custodial Package Menu ...
INQ Inquire to an Integration Control Registration
SUBS Subscriber Package Menu ...
APIS Supported API Report
VBLE Lookup ICRs by Variable
PEND Print ICRs in Pending Status
ACTV Print Active ICRs

1 Patch GMRV*5.0*23 September 2009 External Relations list removed and replaced with instructions on obtaining the information online. Integration Agreements renamed Interface Control Registrations.
ALL Print ALL ICRs

Select INTEGRATION CONTROL REGISTRATIONS Option: CUST Custodial Package Menu

1 ACTIVE ICRs by Custodial Package
2 Print ALL ICRs by Custodial Package
3 Supported References Print All

Select Custodial Package Menu Option: 1 ACTIVE ICRs by Custodial Package
Select PACKAGE NAME: GMRV GEN. MED. REC. - VITALS GMRV National
DEVICE: HOME//
9. Internal Relations

The namespace used for version 5 is GMV.

NAME: 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.
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
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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
RPC: GMV CLOSEST READING

UPPERCASE MENU TEXT: VITALS/MEASUREMENTS GUI APPLIC

---

1 September 2009 Patch GMRV*5.0*23 Updated list.
2 Patch GMRV*5.0*23 September 2009 Removed reference to timestamp.
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10. **Package-wide Variables**

No package-wide variables are used in this application.
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11. SAC Exemptions

There is one SAC Exemption associated with this package.

VITALS/MEASUREMENTS

<table>
<thead>
<tr>
<th>STANDARD SECTION</th>
<th>ANSI</th>
<th>DATE GRANTED</th>
<th>JAN 25, 1996</th>
</tr>
</thead>
</table>

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.
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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 Health 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.

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>NAME</th>
<th>GLOBAL NAME</th>
<th>DD</th>
<th>RD</th>
<th>WR</th>
<th>DEL</th>
<th>LAY</th>
<th>AUD</th>
</tr>
</thead>
<tbody>
<tr>
<td>120.5</td>
<td>GMRV VITAL MEASUREMENT</td>
<td>^GMR(120.5,</td>
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<td>@</td>
<td>@</td>
<td>@</td>
<td>@</td>
<td>@</td>
</tr>
<tr>
<td>120.51</td>
<td>GMRV VITAL TYPE</td>
<td>^GMRD(120.51,</td>
<td>@</td>
<td>@</td>
<td>@</td>
<td>@</td>
<td>@</td>
<td>@</td>
</tr>
<tr>
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<td>GMRV VITAL CATEGORY</td>
<td>^GMRD(120.53,</td>
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<td>@</td>
<td>@</td>
</tr>
</tbody>
</table>

j. References.

There are no special reference materials for this package.


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.

---

1  Patch GMRV*5.0*23  September 2009  Entire glossary updated..
Glossary

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.


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.

OIF0   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.
Glossary

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.
14. Appendix A – Parameter Settings

This table contains a list of parameter settings used by the Vitals/Measurement Standalone and Vitals Lite Graphical User Interfaces (GUIs).

Note: The GUIs use these parameter settings to start the software. When a GUI is open and the user changes the settings (e.g., checks a checkbox) that change works immediately in the GUI, but the parameter setting is not saved to the server until the user exits the GUI. If you are trying to debug a problem and have a GUI and a Mumps session open with the parameter settings showing at the same time, you will not see the parameter settings change until you close the GUI.

How can you see these parameter settings on the server?
Example:

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

Select PARAMETER DEFINITION NAME: GMV<return>

1  GMV ALLOW USER TEMPLATES   Allow individual user templates
2  GMV DEFAULT VALUES   ENTER GMV DEFAULTS
3  GMV DLL VERSION   Vitals DLL version check
4  GMV GUI VERSION   Active Vitals Measurements executables
5  GMV TEMPLATE   Templates for vitals V5

Press <RETURN> to see more, '"' to exit this list, OR

CHOOSE 1-5: <return>

6  GMV TEMPLATE DEFAULT   Default Templates for vitals V5
7  GMV USER DEFAULTS   GMV User Defaults
8  GMV WEBLINK   Vitals Measurements Home Page

CHOOSE 1-8: 7
Select NEW PERSON NAME: LASTNAME,FIRST <return>

------------- Setting GMV USER DEFAULTS  for User: LASTNAME,FIRST -------------
Select Parameter setting: ?<return>

<table>
<thead>
<tr>
<th>Parameter setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABNORMALBGCOLOR</td>
<td>15</td>
</tr>
<tr>
<td>ABNORMALBOLD</td>
<td>OFF</td>
</tr>
<tr>
<td>ABNORMALQUALIFIERS</td>
<td>ON</td>
</tr>
<tr>
<td>ABNORMALTEXTCOLOR</td>
<td>9</td>
</tr>
<tr>
<td>CLINIC_INDEX</td>
<td>9</td>
</tr>
<tr>
<td>CPRSMetricStyle</td>
<td>CPRSMetricStyle</td>
</tr>
<tr>
<td>CanvasAbnormal</td>
<td>15;9;0;1;15</td>
</tr>
</tbody>
</table>

1 Patch GMRV*5.0*23  September 2009  Added Appendix A – Parameter Settings
Canvas Normal: 15;0;0;1;15;15388544;15388544;ORWPT PTINQ

Enter RETURN to continue or '^[return]' to exit:

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Example</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABNORMALBGCOLOR</td>
<td>15</td>
<td>A number that represents the data grid background color for abnormal values. There are 16 colors to choose from. 0 - Black, 1 - Maroon, 2 - Green, 3 - Olive, 4 - Navy, 5 - Purple, 6 - Teal, 7 - Gray, 8 - Silver, 9 - Red, 10 - Lime, 11 - Yellow, 12 - Blue, 13 - Fuchsia, 14 - Aqua, 15 – White</td>
</tr>
<tr>
<td>ABNORMALBOLD</td>
<td>ON or OFF</td>
<td>ON means the abnormal values appear in bold font. OFF means the abnormal values appear in regular font.</td>
</tr>
<tr>
<td>ABNORMALQUALIFIERS</td>
<td>ON or OFF</td>
<td>ON means the qualifiers are shown on the data grid for abnormal values. OFF means they are not shown for abnormal values.</td>
</tr>
<tr>
<td>ABNORMALTEXTCOLOR</td>
<td>0 through 15</td>
<td>The number that represents the text color for abnormal values shown in the data grid. (See the list above.)</td>
</tr>
<tr>
<td>Parameter</td>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>---------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CLINIC_INDEX</td>
<td>1</td>
<td>An RPC returns an array with the list of clinics to select from. This number indicates the array node of the clinic selected. It is “-1” if no clinic was ever selected.</td>
</tr>
<tr>
<td>CPRSMetricStyle</td>
<td>CPRSMetricStyle or VitalsMetricStyle</td>
<td>When the “Units as Drop Down List” checkbox in the “Enter Vitals” window is checked this value is “CPRSMetricStyle”. If it is not checked the value is “VitalsMetricStyle”.</td>
</tr>
<tr>
<td>CanvasAbnormal</td>
<td>15;9;0;1;15</td>
<td>User preferences for abnormal values. Set from File</td>
</tr>
<tr>
<td>CanvasNormal</td>
<td>15;0;0;1;15;15388544;15388544;ORWPT PTINQ</td>
<td>User preferences for normal values. Set from File</td>
</tr>
<tr>
<td>DefaultTemplate</td>
<td>547;VA(200),</td>
<td>full list</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>GRAPH OPTIONS VISIBLE</td>
<td>0 or 1</td>
<td>1 means the “Values”, “Time Scale”, “3D” and “Allow Zoom” checkboxes are visible. 0 means they are hidden. This parameter is set from the Vitals Lite GUI.</td>
</tr>
<tr>
<td>GRAPHCOLOR</td>
<td>16777215</td>
<td>The code for the background color for the data graph. There are too many colors to list.</td>
</tr>
<tr>
<td>GRAPHOPTIONS</td>
<td>ON or OFF</td>
<td>The “Show/Hide Graph Option” controls a panel that contains the “Values”, “3D”, “Allow Zoom” and “Time Scale” checkboxes. ON means the panel will be displayed to the user. OFF means it will be hidden from view. Same as the GRAPH OPTIONS VISIBLE parameter but is set from the Vitals Standalone GUI.</td>
</tr>
<tr>
<td>GRAPHOPTIONS-1</td>
<td>ON or OFF</td>
<td>ON means the “Values” checkbox has a checkmark. OFF means it is blank.</td>
</tr>
<tr>
<td>GRAPHOPTIONS-2</td>
<td>ON or OFF</td>
<td>ON means the “3D” checkbox has a checkmark. OFF means it is blank.</td>
</tr>
<tr>
<td>GRAPHOPTIONS-3</td>
<td>ON or OFF</td>
<td>ON means the “Allow Zoom” checkbox has a checkmark. OFF means it is blank.</td>
</tr>
<tr>
<td>GRAPHOPTIONS-4</td>
<td>ON or OFF</td>
<td>ON means the “Time Scale” checkbox has a checkmark. OFF means it is blank.</td>
</tr>
<tr>
<td>GRAPH_INDEX</td>
<td>0</td>
<td>A number to indicate the vital type(s) that appear on the data graph. 0 – Temperature 1 – Pulse 2 – Respiration</td>
</tr>
</tbody>
</table>
### Appendix A – Parameter Settings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRIDSIZE</td>
<td>212</td>
<td>Width in pixels of the data grid.</td>
</tr>
<tr>
<td>GridDateRange</td>
<td>12</td>
<td>Date Range selection. Default value is 12 (Two Years).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0 – Today</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 – T-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 – T-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 – T-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 – T-4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 – T-5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 – T-6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7 – T-7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8 – T-8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 – T-9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 – Six Months</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11 – One Year</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 – Two Years</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13 – All Results</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14 – Date Range</td>
</tr>
<tr>
<td>LastVitalsListHeight</td>
<td>130</td>
<td>Height in pixels of the “Latest vitals on file for this patient” portion of the “Enter Vitals’ window.”</td>
</tr>
<tr>
<td>NORMALBGCOLOR</td>
<td>0 through 15</td>
<td>The background color for the normal values in the data grid. (See the list above.)</td>
</tr>
<tr>
<td>NORMALBOLD</td>
<td>ON or OFF</td>
<td>ON means the normal values appear in the bold font. OFF means the normal values appear in regular font.</td>
</tr>
<tr>
<td>NORMALQUALIFIERS</td>
<td>ON or OFF</td>
<td>ON means the qualifiers are shown on the data grid for normal values. OFF means they are not shown for normal values.</td>
</tr>
<tr>
<td>NORMALTEXTCOLOR</td>
<td>0 through 15</td>
<td>The number that represents the text</td>
</tr>
</tbody>
</table>

October 2002
Vitals/Measurements 5.0
### Appendix A – Parameter Settings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OneUnavailableBox</td>
<td>Not currently used. May be used in the future.</td>
<td></td>
</tr>
<tr>
<td>ParamTreeWidth</td>
<td>211</td>
<td>Width in pixels of the “Templates” portion of the “Enter Vitals” window.</td>
</tr>
<tr>
<td>RefuseStatus</td>
<td>ON or OFF</td>
<td>ON means the “Enable R” checkbox in “Enter Vitals” window is checked. OFF means it is not checked.</td>
</tr>
<tr>
<td>SELECTOR_TAB</td>
<td>4</td>
<td>A number that indicates which patient selector tab is selected. 0 – Unit 1 – Ward 2 – Team 3 – Clinic 4 – All</td>
</tr>
<tr>
<td>SearchDelay</td>
<td>1.0</td>
<td>Indicates the number of seconds the software will wait before trying to automatically look up a patient name using the characters entered by the user. Set by the user in: File</td>
</tr>
<tr>
<td>ShowLastVitals</td>
<td>ShowLastVitals or NoLatest Vitals</td>
<td>Show or hide the values for the “Latest vitals on file for this patient” portion of the “Enter Vitals” window.</td>
</tr>
<tr>
<td>ShowTemplates</td>
<td>ShowTemplates or NoTemplates</td>
<td>“ShowTemplates” means that the “Template” list in the “Enter Vitals” window is shown. “NoTemplates” means it is hidden.</td>
</tr>
<tr>
<td>TEAM_INDEX</td>
<td>-1</td>
<td>An RPC returns an array with the list of teams to select from. This number indicates the array node of the team selected. It is “-1” if no team was ever selected.</td>
</tr>
<tr>
<td>TfrmGMV_InputLite</td>
<td>800;600;-4;-4;808;574;0</td>
<td>Parameters of the Vitals Standalone (EXE) window. 1st value (e.g., 800) – User’s Windows screen resolution (width) 2nd value (e.g., 600) – User’s Windows screen resolution (height) 3rd value (e.g., -4) – Position of the left side of the window 4th value (e.g., -4) – Position of the top side of the window 5th value (e.g., 808) – Width in pixels</td>
</tr>
<tr>
<td><strong>UNIT_INDEX</strong></td>
<td>7</td>
<td>An RPC returns an array with the list of (nursing) units to select from. This number indicates the array node of the unit selected. It is “-1” if no unit was ever selected.</td>
</tr>
<tr>
<td><strong>UnavailableStatus</strong></td>
<td>ON or OFF</td>
<td>ON means the “Enable U” checkbox in “Enter Vitals” window is checked. OFF means it is not checked.</td>
</tr>
<tr>
<td><strong>VIEW-HEIGHT</strong></td>
<td>566</td>
<td>The height in pixels for the Vitals Lite (DLL) View window.</td>
</tr>
<tr>
<td><strong>VIEW-LEFT</strong></td>
<td>59</td>
<td>The pixel location for the left side of the Vitals Lite (DLL) View window.</td>
</tr>
<tr>
<td><strong>VIEW-TOP</strong></td>
<td>0</td>
<td>The pixel location for the top of the Vitals Lite (DLL) View window.</td>
</tr>
<tr>
<td><strong>VIEW-WIDTH</strong></td>
<td>741</td>
<td>The width in pixels for the Vitals Lite (DLL) View window.</td>
</tr>
<tr>
<td><strong>VitalsLite</strong></td>
<td>800;600;0;0;800;566;0</td>
<td>Parameters of the Vitals Lite (DLL) window. 1st value (e.g., 800) – User’s Windows screen resolution (width) 2nd value (e.g., 600) – User’s Windows screen resolution (height) 3rd value (e.g., 0) – Position of the left side of the window 4th value (e.g., 0) – Position of the top side of the window 5th value (e.g., 800) – Width in pixels of the window 6th value (e.g., 566) – Height in pixels of the window 7th value (e.g., 0) – Not currently used. Cannot be set by the user.</td>
</tr>
<tr>
<td><strong>WARD_INDEX</strong></td>
<td>6</td>
<td>An RPC returns an array with the list of wards to select from. This number indicates the array node of the ward selected. It is “-1” if no ward was ever selected.</td>
</tr>
</tbody>
</table>