



**VITALS/MEASUREMENTS
TECHNICAL MANUAL AND PACKAGE
SECURITY GUIDE**

Version 5.0

October 2002

Department of Veterans Affairs
VISTA System Design & Development

Revision History

Date	Revision	Description	Author
1/16/2002	5.1	Added Revision History	M. Gaddie
2/6/2002	5.2	Update manual	M. Gaddie
2/14/2002	5.3	The following chapters were updated: Introduction Implementation and Maintenance Routine Descriptions File List and Related Information Exported Options Archiving and Purging Callable Routines External Relations Internal Relations SAC Exemptions Software Product Security Glossary	M. Gaddie
3/7/2002	5.4	The following chapters were updated: Introduction Implementation and Maintenance Exported Options Internal Relations Software Product Security Glossary	M. Gaddie
5/8/2002	5.5	The following chapters were updated: Introduction	M. Gaddie
5/9/2002	5.6	The following chapters were updated: Introduction Implementation and Maintenance	M. Gaddie
5/15/2002	5.7	Recaptured references to the option GMV VM GUI.	M. Gaddie
5/31/2002	5.8	The following chapters were updated: Routine Descriptions Exported Options External Relations Internal Relations	M. Gaddie
7/2/2002	5.9	The following chapters were updated: Introduction Implementation and Maintenance	M. Gaddie
7/9/2002	6.0	The following chapters were updated: Routine Descriptions Exported Options Internal Relations	M. Gaddie

7/23/2002	6.1	The following chapters were updated: Routine Descriptions	M. Gaddie
8/22/2002	6.2	The following chapters were updated for T30: Routine Descriptions External Relations Internal Relations Software Product Security	M. Gaddie
9/4/2002	6.3	The following chapters were updated for T31: Routine Descriptions Exported Options	M. Gaddie
9/9/2002	6.4	Incorporated Frank's changes into the following chapters for T31: Exported Options External Relations Internal Relations Software Product Security	M. Gaddie
10/28/2002	6.5	The following chapters were updated for T32: Routine Descriptions File List and Related Information External Relations Internal Relations	M. Gaddie

Table of Contents

1. Introduction.....	1-1
Functionality.....	1-1
Information on GUI software	1-2
2. Implementation and Maintenance.....	2-1
Description.....	2-1
Virgin Installation of Software	2-1
Non-Virgin Installation of Software.....	2-3
Implementation Considerations	2-3
Resource Requirements.....	2-4
3. Routine Descriptions.....	3-1
4. File List and Related Information	4-1
File Descriptions.....	4-1
Package Default Definition.....	4-1
5. Exported Options	5-1
Delphi Components.....	5-1
Remote Procedure Calls (RPC)	5-1
Menu Option by Name	5-11
6. Archiving and Purging	6-1
7. Callable Routines	7-1
8. External Relations.....	8-1
9. Internal Relations.....	9-1
10. Package-wide Variables.....	10-1
11. SAC Exemptions	11-1
12. Software Product Security	12-1
Security Management.....	12-1
Security Features.....	12-1
13. Glossary	13-1

Table of Contents

1. Introduction

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

Functionality

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

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

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

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

Information on GUI software

Intranet WWW Documentation

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

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

GUI and Windows

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

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

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

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

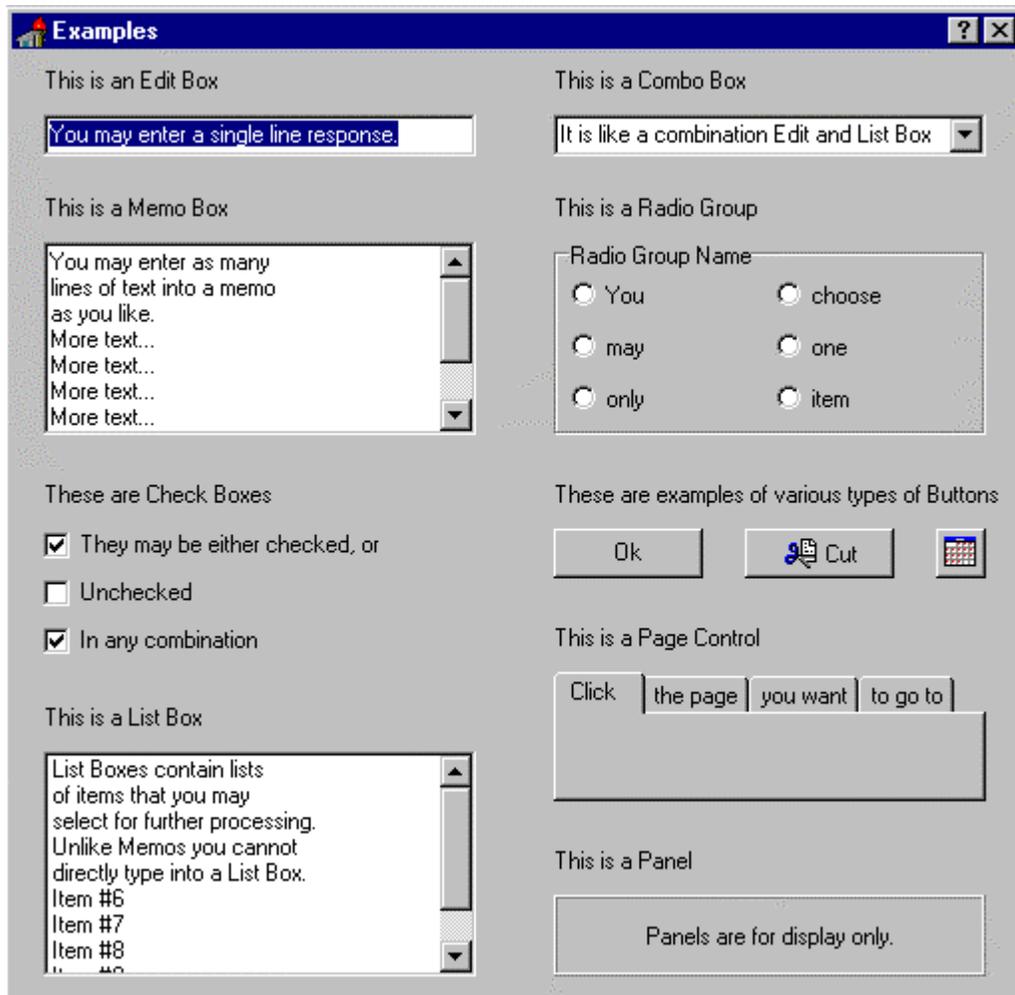


Fig. 1-1

Windows

An “application window” is the area on your computer screen used by a program. If you have more than one program running at the same time, you can go from one program to another by clicking in each application window. The currently active window contains a colored bar (usually blue) at the top of the window. An inactive window contains a gray bar at the top of the window. You can also move, close, or minimize the application window to make room for another window. (See Help in Windows for further instructions on these functions.)

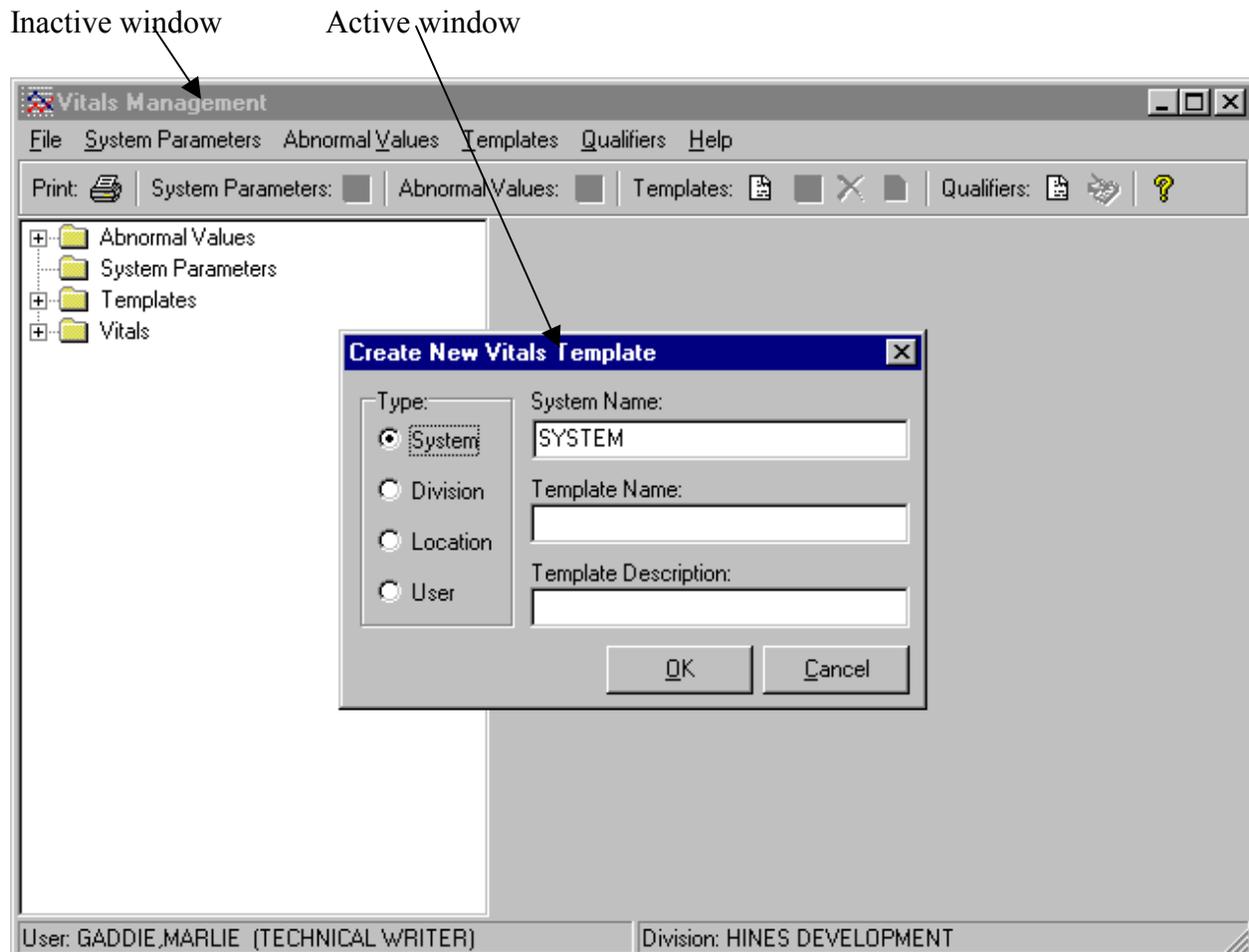


Fig. 1-2

Pop-up Windows

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

Menus

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

Help

Online help and documentation are available in several formats: hints, context-sensitive help, menu help, and Internet Web documentation.

Hints

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

Context-Sensitive Help

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

Menu Help

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

Access Keys

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

2. Implementation and Maintenance

Description

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

Virgin Installation of Software

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

1. Setting up the software environment.

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

- a. VA FileMan V. 22 or greater,
- b. Kernel V. 8.0 or greater,
- c. Kernel Toolkit V. 7.3 or greater,
- d. Kernel RPC Broker V. 1.1 or greater,
- e. PIMS V. 5.3 or greater,
- f. Intake and Output V. 4.0,
- g. Health Summary V. 2.7 or greater,
- h. Nursing V. 4.0 or greater.

Data entered into the test environment CANNOT be transferred into the production environment. It is recommended that a limited amount of data be entered into the test directory in order for the user to become familiar with the application and to establish an acceptable training database.

2. Name spacing and file listing.

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

3. Editing site configurable files.

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

4. Queueing TaskMan jobs.

No queued TaskMan jobs are associated with this application.

5. Accessing modules.

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

6. Assigning modules.

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

The Vitals module should be assigned to clinical staff.

7. Security keys.

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

8. Printer issues.

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

9. On-line Help.

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

Non-Virgin Installation of Software

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

Implementation Considerations

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

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

Resource Requirements

The minimal hardware requirements for the software are two data input devices (usually PC workstations running Windows 9x or NT (Ver. 4 or later)) and one printer per location. 12 megabytes of available memory is needed to run the program. The following statistics regarding the disk storage requirements of the software were compiled by an average test site.

Server:

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

Client:

<u>Type of Data</u>	<u>Size</u>
Application (user)	1356.5 k
Application (manager)	811.5 k
Help Files (user)	460 k
Help Files (manager)	175.678 k

3. Routine Descriptions

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

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

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

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

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

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

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

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

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

GMVCLIN ;HOIFO/YH,FT-FUNCTION WHICH RETURNS A LIST OF PATIENTS WITH CLINICAL
APPOINTMENT WITHIN A GIVEN PERIOD ;7/23/02 09:12
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

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

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

GMVDCEXT ;HOIFO/DAD,FT-VITALS COMPONENT: EXTRACT PATIENT DATA ;9/29/00 09:16
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

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

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

GMVDCSAV ;HOIFO/DAD-VITALS COMPONENT: SAVE DATA ;8/9/02 12:56
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

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

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

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

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

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

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

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

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

GMVFSYN ;HOIFO/RM,YH,FT-X REFERENCE FOR VITAL TYPE, CATEGORY AND SYNONYM
;5/24/01 14:03
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

Routine Descriptions

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

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

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

GMVGETD ;HOIFO/YH,FT-EXTRACTS WARD/ROOM-BED/PT AND PT VITALS ;2/20/02 12:38
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

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

GMVGETD2 ;HOIFO/YH-EXTRACT VITALS/MEASUREMENT RECORDS FOR A GIVEN DATE
(CONT.) ;8/31/99 15:04
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

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

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

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

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

GMVGR1 ;HIOFO/YH,FT-SET ^TMP(\$J) GLOBAL ;9/30/02 15:00
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVGR2 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA DEFINE MACRO (PART 1) ;11/8/01
14:54
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVGR3 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA DEFINE MACRO (PART 2) ;11/6/01
16:09
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVGR4 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA PRINT COMMANDS (PART 1) ;11/6/01
16:10
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVGR5 ;HIOFO/RM,YH,FT-TMP TO EXTRACT DATA FROM IO PACKAGE ;11/6/01 16:21
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVGR6 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA PRINT COMMANDS (PART 2) ;11/6/01
16:13
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVGR7 ;HIOFO/YH,FT-VITALS GRAPH KYOCERA DEFINE MACRO FOR PULSE OX./CG/CVP
;11/6/01 16:14
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHB0 ;HIOFO/YH,FT-HP LASER B/P GRAPH - DATA ARRAY ;11/6/01 15:36
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHB1 ;HIOFO/YH,FT-HP LASER B/P GRAPH - FORM ;11/6/01 15:36
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHB2 ;HIOFO/YH,FT-HP LASER B/P GRAPH - BOX DATA ;11/6/01 15:37
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHB3 ;HIOFO/YH,FT-HP LASER B/P GRAPH - ID ;11/6/01 15:37
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHB4 ;HIOFO/YH,FT-HP LASER B/P GRAPH - ^TMP DATA ;11/6/01 15:37
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHG0 ;HIOFO/YH,FT-HP LASER SF 511 GRAPH - DATA ARRAY ;11/6/01 15:07
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHG1 ;HIOFO/YH,FT-HP LASER SF511 GRAPH - FORM ;11/6/01 15:09
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHG2 ;HIOFO/YH,FT-HP LASER SF 511 GRAPH - BOX DATA ;12/4/01 22:27
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHG3 ;HIOFO/YH,FT-HP LASER SF 511 GRAPH - ID ;11/6/01 15:09
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

GMVHG4 ;HIOFO/YH,FT-HP LASER SF 511 GRAPH - ^TMP DATA ;11/6/01 15:08

```

;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHPN0 ;HIOFO/YH,FT-HP LASER PAIN CHART - DATA ARRAY ;11/6/01 15:14
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHPN1 ;HIOFO/YH,FT-HP LASER PAIN CHART - FORM ;11/6/01 15:16
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHPN2 ;HIOFO/YH,FT-HP LASER PAIN CHART - ^TMP DATA ;11/8/01 14:56
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHPO0 ;HIOFO/YH,FT-HP LASER PULSE OXIMETRY/RESP. GRAPH - DATA ARRAY
;11/6/01 15:18
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHPO1 ;HIOFO/YH,FT-HP LASER PULSE OXIMETRY/RESP. GRAPH - FORM ;11/6/01
15:20
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHPO2 ;HIOFO/YH,FT-HP LASER PULSE OXIMETRY/RESP. GRAPH - BOX DATA ;11/6/01
15:20
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHPO3 ;HIOFO/YH,FT-HP LASER PULSE OXIMETRY/RESP. GRAPH - ^TMP DATA
;11/6/01 15:19
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHW0 ;HIOFO/YH,FT-HP LASER WEIGHT CHART - DATA ARRAY ;12/6/01 11:35
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHW1 ;HIOFO/YH,FT-HP LASER WEIGHT CHART - FORM AND GRAPH ;11/6/01 15:23
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVHW2 ;HIOFO/YH,FT-HP LASER WEIGHT CHART - BOX DATA ;11/6/01 15:23
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVKPN0 ;HCIOFO/YH,FT-KYOCERA PAIN CHART - DATA ARRAY ;11/6/01 15:03
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVKPN1 ;HCIOFO/YH,FT-KYOCERA PAIN CHART MACRO-1 ;11/6/01 15:04
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVKPN2 ;HCIOFO/YH,FT-KYOCERA KYOCERA PAIN CHART PRINT COMMANDS (PART 1)
;11/6/01 15:05
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVKPO0 ;HIOFO/YH,FT-KYOCERA PULSE OXIMETRY/RESP. GRAPH - DATA ARRAY
;11/6/01 14:55
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVKPO1 ;HIOFO/YH,FT-KYOCERA PULSE OXIMETRY/RESP. GRAPH - GRAPH DATA
;11/6/01 14:56
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVKPO2 ;HIOFO/YH,FT-KYOCERA PULSE OXIMETRY/RESP. MACRO-1 ;11/6/01 15:00
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVKPO3 ;HIOFO/YH,FT-KYOCERA PULSE OXIMETRY/RESP. GRAPH - MACRO 2 ;11/6/01
15:00
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVKPO4 ;HIOFO/YH,FT-GRAPH KYOCERA PRINT COMMANDS (PART 1) ;11/6/01 15:01
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLAT0 ;HOIFO/YH,FT-DISPLAY LATEST VITALS/MEASUREMENTS FOR A PATIENT
;7/3/02 01:31
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLATS ;HOIFO/YH,FT-QUEUES LATEST VITALS/MEASUREMENTS ;12/27/01 11:08
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLBP0 ;HIOFO/YH,FT-PATIENT BLOOD PRESSURE LINE PRINTER GRAPH - 1 ;11/6/01
15:49
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLBP1 ;HIOFO/YH,FT-SYSTOLIC/DIASTOLIC GRAPH ;12/17/01 09:30
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLBP2 ;HIOFO/YH,FT-SET GRAPH LOWER BOX DATA ;9/30/02 15:03
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLGQU ;HIOFO/YH,FT-UTILITY FOR LEGEND, PO2 AND QUALIFIER ;11/8/01 14:31
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLPO0 ;HIOFO/YH,FT-DOT MATRIX OXIMETRY/RESP. GRAPH - DATA ARRAY ;11/6/01
15:43

```

Routine Descriptions

```

;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLPO1 ;HIOFO/YH,FT-DOT MATRIX PULSE OXIMETRY AND RESPIRATION GRAPH
;11/6/01 15:44
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLPO2 ;HIOFO/YH,FT-DOT MATRIX HIOFO/YH-PULSE OX. AND RESPIRATION DATA
;9/30/02 15:16
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLWT0 ;HIOFO/YH,FT-DOT MATRIX WEIGHT GRAPH - DATA ARRAY ;6/17/02 15:58
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLWT1 ;HIOFO/YH,FT-DOT MATRIX PATIENT WEIGHT GRAPH - 2 ;11/6/01 15:31
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLWT2 ;HIOFO/YH,FT-DOT MATRIX WEIGHT GRAPH - 3 ;11/6/01 15:32
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVLWT3 ;HIOFO/YH,FT-DOT MATRIX PATIENT WEIGHT GRAPH - 4 ;9/30/02 15:18
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVPAR ; HOIFO/DP - XPARameter RPC ; 31-MAY-2002 10:06:18
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVPCE3 ;HIOFO/RM,FT-V/M Data Validation for AICS ;2/5/02 15:19
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVQUAL ;HOIFO/YH,FT-VITAL QUALIFIERS ;12/27/01 11:10
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVRPCM ; HOIFO/DP - RPC for Vitals Manager ;8/9/02 15:21
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVRPCP ;HOIFO/DP-RPC for GMV_PtSelect.pas ;8/14/02 15:38
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVRPCU ; HOIFO/DP - RPC for Vitals User
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVSAS0 ;HIOFO/RM,YH,FT-CALCULATE ABNORMAL V/S ;11/8/01 14:36
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVSC0 ;HOIFO/MD,YH,FT-CUMULATIVE VITALS/MEASUREMENTS FOR PATIENT OVER
GIVEN DATE RANGE ;10/25/02 10:29
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVSC1 ;HOIFO/YH,FT-CUMULATIVE V/M - CONTINUED ;12/18/01 10:53
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVSC2 ;HIRMFO/YH,FT-CUMULATIVE V/M - CONTINUED ;12/18/01 10:54
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVSR0 ;HOIFO/RM,YH,FT-VITAL SIGNS RECORD SF 511 ;10/25/02 10:39
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVSR1 ;HIOFO/RM,YH-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 1 ;11/6/01
16:00
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVSR2 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 2 ;11/6/01
16:01
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVTBL0 ;HOIFO/YH,FT-HP LASER ;12/4/01 22:47
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVTBL1 ;HOIFO/YH-HP LASER CUMULATIVE TABLE ;2/11/99
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVTBL2 ;HOIFO/YH-HP LASER VITALS TABLE ;1/21/99
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVTBL3 ;HOIFO/YH-HP LASER VITALS TABLE ;1/21/99
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVTBL4 ;HOIFO/YH,FT-HP LASER VITALS TABLE ;12/4/01 22:47
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUT0 ;HIOFO/RM,YH,FT-INPUT TRANSFORMS FOR VITAL TYPES ;2/5/02 14:54
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUT2 ;HOIFO/YH,RM,FT-ENTRY TO GATHER PATIENT VITAL/MEASUREMENT DATA
;12/27/01 10:45
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUT3 ;HIOFO/YH,FT-VITAL MEASUREMENT SITE/QUALIFIER SELECTION ;2/5/02
15:04

```

```

;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUTL ;HOIFO/RM,MD,FT-CALLABLE ENTRY POINTS FOR PROGRAMMER UTILITIES
;12/27/01 10:46
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUTL1 ;HOIFO/YH,FT-EXTRACT CLINIC LIST AND MARK VITALS ENTERED IN ERROR
;9/30/02 14:51
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUTL2 ;HOIFO/YH,FT-BP HIGH/LOW LIMITS AND DEFAULT QUALIFIER; 6/7/98
;10/1/02 14:14
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUTL3 ;HOIFO/YH,FT-RPCBROKER UTILITY ROUTINE TO EXTRACT NURSING UNIT/ROOM-
BED - 3 ;9/6/02 09:16
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUTL5 ;HOIFO/DS,FT-RPC BROKER UTILITY ;12/27/01 13:55
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUTL7 ;HIOFO/DS-RPC API TO RETURN ALL VITALS/CATOGORIES/QUALIFIERS
;7/17/02 14:52
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVUTL8 ;HIOFO/DS-RPC API TO RETURN ALL VITALS/CATOGORIES/QUALIFIERS
;8/30/02 02:07
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVVS1 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 1 ;11/6/01
14:43
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVVS2 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 2 ;9/30/02
15:25
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVVS3 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-I/O SF 511 GRAPH - 3 ;11/6/01
14:42
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVVS4 ;HIOFO/YH,FT-PATIENT VITAL SIGNS-GRAPH ;11/6/01 14:44
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVWT0 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - DATA ARRAY ;12/17/01 09:28
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVWT1 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - GRAPH DATA ;9/30/02 15:27
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVWT2 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - MACRO ;11/6/01 14:49
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVWT3 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - MACRO (CONT.) ;11/6/01 14:50
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVWT4 ;HIOFO/YH,FT-KYOCERA WEIGHT GRAPH - MACRO CALL ;11/6/01 14:50
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVXENV ;HOIFO/YH-ENVIRONMENT CHECK FOR VITALS ;2/6/02 10:57
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002
GMVXPST ;HOIFO/FT-POST INSTALLATION FOR VITALS ;10/24/02 13:24
;;5.0;GEN. MED. REC. - VITALS;;Oct 31, 2002

```

Routine Descriptions

4. File List and Related Information

File Descriptions

GMRV VITAL MEASUREMENT 120.5

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

GMRV VITAL TYPE 120.51

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

GMRV VITAL QUALIFIER 120.52

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

GMRV VITAL CATEGORY 120.53

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

GMRV VITALS PARAMETERS 120.57

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

Package Default Definition

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

5. Exported Options

Delphi Components

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

TeeChart	Displays charts and graphs. It is used in Vitals/Measurements to graphically plot various measurements versus time.
ResizerPanel	Resizes its client components when the form is resized or the screen resolution is changed. This takes care of proper size and position of components with regard to the font size used in Windows. It is there so users can resize the application Windows to meet their needs.
VersionInfoResource	Retrieves VERSIONINFO data from the executable. It is used in the about boxes in Vitals/Measurements to display version information.
RPCBroker	Used for all non-FTP communication with the server.
FMDC	Used for saving, deleting, validating, and retrieving data in FileMan data dictionaries.
DateTime	Allows the user to visually select a data 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: RESTRICTED                       INACTIVE: ACTIVE
  WORD WRAP ON: TRUE
  DESCRIPTION:
  This procedure is used to enter a new Vital/Measurement record in the GMRV
  Vital Measurement file (#120.5).
INPUT PARAMETER: GMRVDATA                        PARAMETER TYPE: LITERAL
  MAXIMUM DATA LENGTH: 255                      REQUIRED: YES
```

Exported Options

SEQUENCE NUMBER: 1
DESCRIPTION:
This variable contains a Vital/Measurement record to be filed in the GMRV Vital Measurement file #120.5.

GMRVDATA has the following data:
Date/time V/M taken^DFN^Vital type^NOW^Hospital location^DUZ^^Measurement^
^O2 information.
RETURN PARAMETER DESCRIPTION:
RESULT returns the information of record filing result such as "DATA MISSING" or "RECORD EXISTS".

NAME: **GMV ALLERGY** TAG: ALLERGY
ROUTINE: GMVUTL3 RETURN VALUE TYPE: ARRAY
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
WORD WRAP ON: TRUE
DESCRIPTION:
This procedure retrieves the patient's allergy information.
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.

example:

RESULT(n)=This patient has the following allergy(ies):
(n+1)=RADIOLOGICAK/CONTRAST MEDIA

n is a sequential number starting at 1.

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

NAME: **GMV CHECK DEVICE** TAG: CHKDEV
ROUTINE: GMVUTL2 RETURN VALUE TYPE: SINGLE VALUE
AVAILABILITY: RESTRICTED INACTIVE: ACTIVE

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

Returns a list of patient names and DFNs for the selected clinic and the given date span in the array specified.

NAME: **GMV CONVERT DATE** TAG: GETDT
 ROUTINE: GMVGETQ RETURN VALUE TYPE: SINGLE VALUE
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
 WORD WRAP ON: TRUE
 DESCRIPTION:
 This procedure converts a user-supplied date/time into VA FileMan's internal and external date format.
 INPUT PARAMETER: GMRDATE PARAMETER TYPE: LITERAL
 MAXIMUM DATA LENGTH: 30 REQUIRED: YES
 SEQUENCE NUMBER: 1
 DESCRIPTION:
 GMRDATE is the user-supplied date/time text.
 RETURN PARAMETER DESCRIPTION:
 RESULT=Date in internal FileMan format^Date in external FileMan format

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 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.

Exported Options

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

RETURN PARAMETER DESCRIPTION:

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

NAME: **GMV EXTRACT REC**

TAG: GETVM

ROUTINE: GMVGETD

RETURN VALUE TYPE: GLOBAL ARRAY

AVAILABILITY: RESTRICTED

INACTIVE: ACTIVE

WORD WRAP ON: TRUE

DESCRIPTION:

This procedure retrieves vital records from GMRV Vital Measurement file (#120.5) for a selected patient within a given date span.

INPUT PARAMETER: GMRVDATA

PARAMETER TYPE: LITERAL

MAXIMUM DATA LENGTH: 30

REQUIRED: YES

SEQUENCE NUMBER: 1

DESCRIPTION:

GMRVDATA consists of 4 pieces of information:

Patient IEN^End date vital taken^Vital type(optional)^Start date vital taken.

RETURN PARAMETER DESCRIPTION:

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

^TMP(\$J,"GRPC",n)=File 120.5 IEN^Date/time taken (external) Vital Type
Abbreviation: Rate U.S. units (Metric value)
(Qualifiers)

n is a sequential number starting at 1.

The second piece of each entry is one string of formatted output.

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

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

NAME: **GMV GET CURRENT TIME**

TAG: TIME

ROUTINE: GMVUTL7

RETURN VALUE TYPE: SINGLE VALUE

AVAILABILITY: RESTRICTED

INACTIVE: ACTIVE

WORD WRAP ON: FALSE

VERSION: 1

DESCRIPTION:

Gets current time from server

RETURN PARAMETER DESCRIPTION:

Returns fileman time and date

NAME: **GMV LATEST VITALS BY LOCATION**

TAG: EN1

NAME: **GMV PT GRAPH** TAG: EN1
 ROUTINE: GMVSR0 RETURN VALUE TYPE: SINGLE VALUE
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE

DESCRIPTION:

Prints Vitals/Measurements Graphic Reports.

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

DESCRIPTION:

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

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

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

RETURN PARAMETER DESCRIPTION:

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

NAME: **GMV PTSELECT** TAG: RPC
 ROUTINE: GMVRPCP RETURN VALUE TYPE: GLOBAL ARRAY
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
 WORD WRAP ON: TRUE

DESCRIPTION:

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

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

DESCRIPTION:

This is the RPC return array variable.

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

DESCRIPTION:

Contains the appropriate method to perform within this RPC call.

Options are:

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

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

INPUT PARAMETER: DFN PARAMETER TYPE: LITERAL

RETURN PARAMETER DESCRIPTION:

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

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

n is a sequential number starting at 1.

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

NAME: **GMV TEAM PATIENTS** TAG: TEAMPT
 ROUTINE: GMVUTL3 RETURN VALUE TYPE: ARRAY
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
 WORD WRAP ON: TRUE
 DESCRIPTION:
 This procedure retrieves patients assigned to a given team.
 INPUT PARAMETER: GMVTEAM PARAMETER TYPE: LITERAL
 MAXIMUM DATA LENGTH: 30 REQUIRED: YES
 SEQUENCE NUMBER: 1
 DESCRIPTION:
 GMVTEAM is the internal entry number of the selected team (File 100.21).
 RETURN PARAMETER DESCRIPTION:
 Returns a list of patients in the array specified.
 RESULT(n)=Patient name^DFN^SSN (w/hyphens)^DOB (external)^SEX and AGE^
 Attending^Veteran^Date of Death (external)^Date of Death
 (internal)^Ward name^Roombed

n is a sequential number starting at 1.

NAME: **GMV USER** TAG: RPC
 ROUTINE: GMVRPCU RETURN VALUE TYPE: GLOBAL ARRAY
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
 WORD WRAP ON: TRUE

NAME: **GMV V/M ALLDATA** TAG: VMDDATA
 ROUTINE: GMVGGR1 RETURN VALUE TYPE: GLOBAL ARRAY
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
 WORD WRAP ON: TRUE
 DESCRIPTION:
 This procedure lists all vitals/measurements data for a given date/time span.
 INPUT PARAMETER: GMVDDATA PARAMETER TYPE: LITERAL
 MAXIMUM DATA LENGTH: 60 REQUIRED: YES
 SEQUENCE NUMBER: 1
 DESCRIPTION:
 GMVDDATA consists of 4 pieces of data:
 DFN^Start date/time vitals taken^End date/time vitals taken^Flag: 0 for measurement; 1 for qualifier.
 RETURN PARAMETER DESCRIPTION:
 RESULT array returns the aggregated data or "NO DATA" message.

NAME: **GMV VITALS/CAT/QUAL** TAG: GETVITAL
 ROUTINE: GMVUTL7 RETURN VALUE TYPE: ARRAY
 AVAILABILITY: RESTRICTED INACTIVE: ACTIVE
 WORD WRAP ON: TRUE

Menu Option by Name

NAME: **GMV V/M GUI**
MENU TEXT: Vitals/Measurements GUI Application
TYPE: Broker (Client/Server) CREATOR: TRAXLER,FRANK
PACKAGE: GEN. MED. REC. - VITALS
DESCRIPTION: This option controls access to the GUI Vitals/Measurements application.
TIMESTAMP OF PRIMARY MENU: 59099,60345
RPC: GMV MANAGER
RPC: GMV ADD VM
RPC: GMV ALLERGY
RPC: GMV CLINIC PT
RPC: GMV CONVERT DATE
RPC: GMV CUMULATIVE REPORT
RPC: GMV ENTERED IN ERROR-PATIENT
RPC: GMV EXTRACT REC
RPC: GMV GET CURRENT TIME
RPC: GMV LATEST VITALS BY LOCATION
RPC: GMV LATEST VITALS FOR PATIENT
RPC: GMV LATEST VM
RPC: GMV MARK ERROR
RPC: GMV PT GRAPH
RPC: GMV PTSELECT
RPC: GMV QUALIFIER TABLE
RPC: GMV ROOM/BED
RPC: GMV TEAM PATIENTS
RPC: GMV V/M ALLDATA
RPC: GMV VITALS/CAT/QUAL
RPC: GMV WARD LOCATION
RPC: GMV WARD PT
RPC: GMV WARD/ROOM PATIENTS
RPC: GMV USER
RPC: GMV NUR UNIT PT
RPC: GMV CHECK DEVICE
RPC: GMV PARAMETER
RPC: ORWPT PTINQ
UPPERCASE MENU TEXT: VITALS/MEASUREMENTS GUI APPLIC

6. Archiving and Purging

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

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

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

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

```
> D P^DI
```

```
VA FileMan 22.0
```

```
Select OPTION: ?
```

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

```
  Choose from:
```

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

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

```
Select OTHER OPTION: ?
```

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

```
  Choose from:
```

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

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

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

Archiving and Purging

Choose from:

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

Select ARCHIVE OPTION: **1** SELECT ENTRIES TO ARCHIVE

ARCHIVE FROM WHAT FILE: **GMRV VITAL MEASUREMENT**

-A- SEARCH FOR GMRV VITAL MEASUREMENT FIELD: **.01** DATE/TIME VITALS TAKEN

-A- CONDITION: **LESS THAN**

-A- LESS THAN DATE: **1/1/86** (JAN 01, 1986) <----Enter the cutoff date to stop
archiving.

-B- SEARCH FOR GMRV VITAL MEASUREMENT FIELD: **<RET>**

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

STORE RESULTS OF SEARCH IN TEMPLATE: **GMRV VITAL MEASUREMENT**

Are you adding 'GMRV VITAL MEASUREMENT' as <----Enter a name for the search
a new SORT TEMPLATE? **Y** (Yes) template just
created.

DESCRIPTION:

No existing text

Edit? NO// **y** YES <----Optional.

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

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

SORT BY: DATE/TIME VITALS TAKEN// **<RET>**

START WITH DATE/TIME VITALS TAKEN: FIRST// **<RET>**

FIRST PRINT FIELD: **[captionED]** <----Enter CAPTIONED to get field
names and values.

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

Heading (S/C): GMRV VITAL MEASUREMENT ARCHIVE SEARCH

Replace **<RET>**

DEVICE: Enter appropriate device

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

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

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

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

THEN SEND GMRV VITAL MEASUREMENT FIELD: **<RET>**

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

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

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

Select ARCHIVE OPTION: **5** WRITE ENTRIES TO TEMPORARY STORAGE

Select ARCHIVAL ACTIVITY: **?**

Answer with ARCHIVAL ACTIVITY ARCHIVE NUMBER, or FILE:

1 GMRV VITAL MEASUREMENT 10-16-96 SELECTED

SELECTOR:TRAXLER,FRANK ARCHIVING

Select ARCHIVAL ACTIVITY: **1** GMRV VITAL MEASUREMENT 10-16-96

SELECTED SELECTOR:TRAXLER,FRANK ARCHIVING

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

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

DEVICE: Enter appropriate device

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

Select ARCHIVE OPTION: **6** MOVE ARCHIVED DATA TO PERMANENT STORAGE

Select ARCHIVAL ACTIVITY: **?**

Answer with ARCHIVAL ACTIVITY ARCHIVE NUMBER, or FILE:

1 GMRV VITAL MEASUREMENT 10-16-96 ARCHIVED (TEMPORARY)

SELECTOR:TRAXLER,FRANK ARCHIVING

Select ARCHIVAL ACTIVITY: **1** GMRV VITAL MEASUREMENT 10-16-96

ARCHIVED (TEMPORARY) SELECTOR:TRAXLER,FRANK ARCHIVING

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

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

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

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

Archiving and Purging

HOST FILE NAME: DAD.DAT//**FPT.DAT** <----Enter the name of the file which will
hold the archived records.

INPUT/OUTPUT OPERATION: ?

Enter one of the following host file input/ouput operation:

R = READONLY
N = NEWVERSION
RW = READ/WRITE

INPUT/OUTPUT OPERATION: **RW**

ARCHIVE DEVICE LABEL: VA4\$:[TRAX]FPT.DAT;// **<RET>** VA4\$:[TRAX]FPT.DAT;

Select ARCHIVE OPTION: **<RET>**

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

7. Callable Routines

There are no callable routines.

8. External Relations

1. The following *VISTA* applications must reside in the system before Vitals/Measurements, Version 5.0 can be installed:
 - a. VA FileMan V. 22 or greater,
 - b. Kernel V. 8.0 or greater,
 - c. Kernel Toolkit V. 7.3 or greater,
 - d. Kernel RPC Broker V. 1.1 or greater,
 - e. PIMS V. 5.3 or greater,
 - f. Intake and Output V. 4.0,
 - g. Health Summary V. 2.7 or greater,
 - h. Nursing V. 4.0 or greater.

2. Existing integration agreements between the Vitals/Measurements software and other *VISTA* applications are summarized below.

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

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

ROUTINE:

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

```
ROUTINE: OR
COMPONENT: EN
VARIABLES: X
```

Input

Variable pointer of the protocol.
OE/RR Processor. This is the main entry point to run the
OE/RR program. It is called with X set as a variable
pointer to the initial protocol.

```
862      NAME: ORUHDR
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING           Salt Lake City
```

External Relations

SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: APR 21,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine

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

863 NAME: ORUPREF2
 CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago

USAGE: Controlled Subscri ENTERED: APR 21,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine

ROUTINE: ORUPREF2
 COMPONENT: EN3
 VARIABLES: ORPKG Input Package pointer.
 ORDEF Input Default protocol for setting up protocols.
 ORFL Input File link - variable pointer for procedure file.
 ORDANM Input Optional name of the protocol.
 ORDA Input Internal number of an existing protocol to be updated.
 OREA Input Action used in lieu of default defined in OROEF.
 ORTXT Input Name of protocol; if not defined, the .01 filed of the procedure referenced is used.
 Utility for 'on-the-fly' protocol creation. See OE/RR Developers guide.

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

ROUTINE: ORUTL
 COMPONENT: READ
 VARIABLES:

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

ROUTINE: ORVOM

External Relations

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

ROUTINE: ORX
 COMPONENT: FILE
 VARIABLES: OREPDUZ Input DUZ of the person entering the order.
 ORL Input Variable pointer to the variable pointer.
 ORPCL Input Variable pointer to the protocol that
 created the order.
 ORNP Input Pointer to file 200 for Current
 Agent/Provider
 ORVP Input Variable pointer to the object of an
 order.
 ORCOST Input Cost of the order
 OREVENT Input Two piece variable delimited by a
 semicolon. The first piece is the time
 at which an event should occur. The
 second piece is a character that has
 meaning to a package.
 ORIT Input Variable pointer to the item ordered.
 ORLOG Input Time the order is entered.
 ORPK Input Package reference defined by the package
 when an order is created.
 ORPURG Input Grace days before an order is purged.
 ORSTOP Input Order Stop Date
 ORSTRT Input Order start date
 ORSTS Input Order status
 ORTO Input Pointer to Display Group file. Identifies
 the service receiving the order.
 ORTS Input Pointer to Treating Specialty associated
 with the order.
 ORTX(i) Input Order Text.
 ORIFN Output Internal entry number of order in file
 100
 COMPONENT: RETURN
 VARIABLES: ORIFN Input Internal entry number of order.

```

ORETURN (OR  Input      Cost of the order.
ORETURN (OR  Input      Two piece variable delimited by a
                        semicolon. The first piece is the time
                        at which an event should occur. The
                        second piece is a character that has
                        meaning to a package.
ORETURN (OR  Input      Variable pointer to the item ordered.
ORETURN (OR  Input      Free text, package defined reference.
ORETURN (OR  Input      Grace period before purging order.
ORETURN (OR  Input      Pointer to file 200 for Current
                        Agent/Provider
ORETURN (OR  Input      Stop Date
ORETURN (OR  Input      Start Date
ORETURN (OR  Input      Pointer to Order Status
ORETURN (OR  Input      Order Text
COMPONENT:   ST
VARIABLES:   ORIFN      Input      Internal entry number of the order.
ORSTS        Input      Order Status

```

```

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

```

```

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

```


External Relations

```

ORUPCHUK(' Output =PATIENT LOCATION
ORUPCHUK(' Output =CURRENT AGENT/PROVIDER^External format
ORUPCHUK(' Output =WHEN ENTERED
ORUPCHUK(' Output =PROTOCOL
ORUPCHUK(' Output =CURRENT AGENT/PROVIDER^External Format
ORUPCHUK(' Output =STOP DATE
ORUPCHUK(' Output =CURRENT START DATE
ORUPCHUK(' Output =STATUS^External format
ORUPCHUK(' Output =TO (display group)^External Format
ORUPCHUK(' Output =ORDER TEXT (Multiple)
ORUPCHUK(' Output =OBJECT OF ORDER

```

This entry point returns data from the Order file (100) for a particular order.

```

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

```

```

872      NAME: File 101
CUSTODIAL PACKAGE: KERNEL                      San Francisco
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS   Chicago
        USAGE: Controlled Subscri  ENTERED: APR 28,1994
        STATUS: Active              EXPIRES:
        DURATION: Till Otherwise Agr  VERSION:
        FILE: 101                   ROOT: ORD(101,
        DESCRIPTION:                TYPE: File
This file may be referenced by packages to maintain protocols within their
namespace. This file may also be pointed to.

```

ROUTINE:

```

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

```

ROUTINE:

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

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

ROUTINE:

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

ROUTINE:

901 NAME: PSSJEEU
 CUSTODIAL PACKAGE: PHARMACY DATA MANAGEMENT Birmingham
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Controlled Subscri ENTERED: JUN 24,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 This is a set of utilities that can be used to create, validate and
 process order timing schedules.

ROUTINE: PSSJEEU
 COMPONENT: ENSE
 VARIABLES: PSJPP Input This is the package prefix as found in
 the PACKAGE file (9.4).
 PSJSHLS Input This is executable code that sets \$T to
 be used to screen Hospital Locations when
 editing schedules and shifts. If PSJSHLS
 exists, DIC("S") is set to PSJSHLS. The
 scheduler will not try to validate
 PSJSHLS.
 Allows the editing of the ADMINISTRATION SCHEDULE file
 (51.1).
 COMPONENT: ENSHE
 VARIABLES: PSJPP Input

External Relations

			This is the package prefix as found in the PACKAGE file (9.4).
	PSJSHLS	Input	This is executable code that sets \$T to be used to screen Hospital Locations when editing schedules and shifts. If PSJSHLS exists, DIC("S") is set to PSJSHLS. The scheduler will not try to validate PSJSHLS.
			Allows the editing of the ADMINISTRATION SHIFT file (51.15).
COMPONENT:	ENSVI		
VARIABLES:	PSJPP	Input	This is the package prefix as found in the PACKAGE file (9.4).
	PSJX	Input	This is the schdule to be viewed. If only the first few characters of the schedule name is entered, the user will be asked to select from all schedules in the ADMINISTRATION SCHEDULE file (51.1) beginning with these characters. If a valid schedule is selected, information pertaining to the schedule will be displayed.
			View standard schedule information.
COMPONENT:	ENSJ		
VARIABLES:	PSJX	Both	This is the schdule to be validated. If only the first few characters of the schedule name is entered, the user will be asked to select from all schedules in the ADMINISTRATION SCHEDULE file (51.1) beginning with these characters. If a valid schedule is selected, it's name will will be returned in PSJX. If a valid schedule is not selected, PSJX will be killed.
	PSJPP	Input	This is the package prefix as found in the PACKAGE file (9.4).
	PSJM	Output	This is the frequency in minutes that the action is to be taken. This will be null if PSGX is invalid.
	PSJAT	Output	These are the administration times or shifts that are associated with the selected schedule. This will be null if PSGX is invalid.
	PSJY	Output	This is a pointer to the ADMINISTRATION SCHEDULE file (51.1) if PSJX is found in the file. This will be null if PSJX is invalid or not found.
	PSJTS	Output	This is a code representing the type of schedule. This will be null if the schedule is invalid.
	PSJAX	Output	This is the maximum days continuous

orders last for the selected schedule, or null if not found.

PSJW Input This is a pointer to the HOSPITAL LOCATION file (44). This is an optional variable that may be used to determine the administration times or shifts by location.

PSJNE Input If this optional variable is defined, there is no dialogue with the user. Validates a schedule and gives the administration times or shifts and frequency (in minutes) of the schedule.

COMPONENT: ENATV
 VARIABLES: X Both This contains the administration times to be validated. X will be killed if the administration times are invalid. Validates administration times. This may be used in an input transform.

COMPONENT: ENSHV
 VARIABLES: X Both This should be set to the administration shift to be validated. If the administration shift passed in X is invalid, X will be killed. Validates shifts. If the shift passed in X is invalid X will be killed.

COMPONENT: ENSPU
 VARIABLES: PSJSCH Input This is the schedule to be processed.

PSJMJ Input This is the frequency (in minutes) that an action is to take place. Used for continuous and range schedules.

PSJAT Input This is either a set of administration times or shifts, depending on the type of schedule. If it is administration times, it will be similar to: PSJAT="04-08-12-16-20". If it is shifts, it will be similar to: PSJAT="M-E", PSJAT("M")="05-11", PSJAT("E")="18-22".

PSJTS Input This is a code representing the type of schedule defined in PSJSCH. The codes are: C - CONTINUE; D - DAY OF THE WEEK; DR - DAY OF THE WEEK-RANGE; O - ONE-TIME; R - RANGE; and S - SHIFT.

PSJSD Input This is the start date/time of the order.

PSJFD Input This is the stop date/time of the period where the action is to take place.

PSJOSD Input This is the start date/time of the order. If PSJOSD is not found, PSJSD is used.

PSJOFD Input This is the stop date/time of the order

External Relations

(action to take place). If PSJOFD is not found, PSJFD is used.

PSJC Output
 This is the number of times (and when) an action is to take place.
 Calculates the number of times (and when) an action is to take place.

COMPONENT: ENDS
 VARIABLES: PSJSCH Input
 This is the name of the schedule to be used in determining the start date/time.

PSJAT Input
 This is either a set of administration times or shifts, depending on the type of schedule. If it is administration times, it will be similar to:
 PSJAT="04-08-12-16-20". If it is shifts, it will be similar to:
 PSJAT="M-E", PSJAT("M")="05-11", PSJAT("E")="18-22".

PSJTS Input
 This is a code representing the type of schedule defined in PSJSCH. The codes are: C - CONTINUE; D - DAY OF THE WEEK; DR - DAY OF THE WEEK-RANGE; O - ONE-TIME; R - RANGE; and S - SHIFT.

PSJX Output
 This will be returned as either a date/time in VA FileMan interal format, or null if the start date/time cannot be calculated.
 Provides a date/time that might be used as a default value for the start date of an order.

908 NAME: DBIA908 Albany
 CUSTODIAL PACKAGE: SCHEDULING Chicago
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS

USAGE: Controlled Subscri ENTERED: AUG 10,1994
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 44 ROOT: SC(
 DESCRIPTION: TYPE: File

Read only access for the ^SC global.

Read ^SC(n,0) to obtain Hospital Location name, abbreviation and Division.

Read ^SC(n,42) to obtain ward location file pointer to obtain field #.017 Specialty in the Ward Location file #42.

Read ^SC("B", and ^SC("C", cross references to get patient location internal entry #: \$O(^SC("B",X,0)) and \$O(^SC("C",X,0)).

Read access to the ^SC(D0,"I") node to obtain inactivate date (field # 2505) and re-activate date (field # 2506).

Read only access to ^SC(D0,"S",D1,1,D2,0) to access patients by clinic location and clinic date to print lab report.

Read only access to ^SC(D0,"S",DATE) used to check if a clinic meets on a specified date.

```

^SC(D0,0)
.01      NAME                0;1      Direct Global Read
1        ABBREVIATION        0;2      Direct Global Read
3        INSTITUTION         0;4      Direct Global Read
2        TYPE                 0;3      Direct Global Read
3.5     Division             0:15    Direct Global Read
^SC(D0,'I')
2505    INACTIVATE DATE      I;1      Direct Global Read
2506    REACTIVATE DATE      I;2      Direct Global Read
^SC('B',
.01     NAME                  Direct Global Read
                    B Cross Reference
^SC('C',
1       ABBREVIATION         Direct Global Read
                    C Cross Reference
^SC(D0,'S',D1,1,D2,0)
^SC(n,42)
42     WARD LOCATION FILE P 42;1  Direct Global Read

```

ROUTINE:

```

1181     NAME: DGPM MOVEMENT EVENT
CUSTODIAL PACKAGE: REGISTRATION                      Albany
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS          Chicago

```

The subscribing protocol is: GMRVOR DGPM

```

USAGE: Controlled Subscri  ENTERED: MAR 23,1995
STATUS: Active              EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE:                       ROOT:

```

```

DESCRIPTION:                TYPE: Other

```

This is the event invoked by the registration, discharge, or transfer of a patient. Actions from any application area that are dependent on this event may be added to this event upon approval of the DBIC.

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

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

```

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

```

ROUTINE:

External Relations

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

ROUTINE:

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

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

ROUTINE:

1379 NAME: OPTION FILE
 CUSTODIAL PACKAGE: KERNEL San Francisco
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: NOV 7,1995
 STATUS: Retired EXPIRES:
 DURATION: Next Version VERSION: 3.0
 FILE: 19 ROOT: DIC(19,
 DESCRIPTION: TYPE: File
 This integration agreement is only for Nursing V3.0, Vitals/Measurements
 3.0 and Intake/Output 3.0.

Permission to access the "B" xref on the option file.

Permission to set the OUT OF ORDER field in file 19 using ^DIE.

^DIC(19,D0,0)
 2 OUT OF ORDER MESSAGE 0;3 Write w/Fileman
 ^DIC(19,'B',
 Direct global read on the "B" cross-reference.

ROUTINE:

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

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

ROUTINE:

1391 NAME: GMRY NUR SHIFT/OTHER
 CUSTODIAL PACKAGE: GEN. MED. REC. - I/O Chicago
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: NOV 7,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 126.95 ROOT: GMRD(126.95,
 DESCRIPTION: TYPE: File

External Relations

Nursing and Vitals/Measurements have permission to access the GMRY NUR Shift/Other file fields described in this DBIA.

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

ROUTINE:

```
1392      NAME: GMRY INPUT TYPE
CUSTODIAL PACKAGE: GEN. MED. REC. - I/O          Chicago
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS    Chicago
      USAGE: Private          ENTERED: NOV  7,1995
      STATUS: Active          EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE: 126.56          ROOT: GMRD(126.56,
```

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

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

ROUTINE:

```
1393      NAME: GMRY OUTPUT TYPE
CUSTODIAL PACKAGE: GEN. MED. REC. - I/O          Chicago
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS    Chicago
      USAGE: Private          ENTERED: NOV  7,1995
      STATUS: Active          EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE: 126.58          ROOT: GMRD(126.58,
```

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

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

ROUTINE:

```
1405      NAME: ORDER
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING  Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS    Chicago
      USAGE: Private          ENTERED: NOV  8,1995
      STATUS: Active          EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE: 100          ROOT: OR(100,
```

```
DESCRIPTION:          TYPE: File
Vitals/Measurements has permission to access the Order (100) file as
described in this DBIA. This agreement shall be only valid for V2.5 of
the Order Entry package.
```

```
^OR(100,'AO',
```

Direct global read is allowed on the "AO" cross-reference of the Order (100) file.

ROUTINE:

1412 NAME: DD GLOBAL
 CUSTODIAL PACKAGE: VA FILEMAN San Francisco
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago

USAGE: Controlled Subscri ENTERED: MAR 5,1997
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:

FILE: 0 ROOT: DD(
 DESCRIPTION: TYPE: File
 The Nursing, Vitals/Measurements, and Text Generator packages have been granted permission to access the DD global as defined in this DBIA.

^DD(124.2,0,'DIK')

Nursing and Text Generator have permission to kill this node to uncompile cross-references on the Aggregate Term (124.2) file.

^DD(file,field,

.01	LABEL	0;1	Direct Global Read Nursing can direct global read the name of a field, and direct global read to loop through the ^DD global to get all of the fields for a particular Nursing file. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.
.3	POINTER	0;3	Direct Global Read Nursing can access this field to decode a set of codes to its external format. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.
.5	INPUT TRANSFORM	0;5,99	Direct Global Read Nursing can execute the input transform directly for its files/fields. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.
3	'HELP'-PROMPT	3;E1,245	Direct Global Read Nursing can read the 'Help'-Prompt field for its files/fields. file is in the range of the Nursing file number space assigned by the DBA, and field is a valid field number in file.
4	XECUTABLE 'HELP'	4;E1,245	Direct Global Read Nursing can read the Xecutable 'Help' for its files/fields. file is in the range of the Nursing file number space

External Relations

			assigned by the DBA, and field is a valid field number in file.
8	READ ACCESS (OPTIONAL)	8;E1,245	Direct Global Write The Text Generator and Vitals/Measurements can write the Read Access (Optional) for its files/fields. file is in the appropriate package namespace as assigned by the DBA, and field is a valid field number for file.
9	WRITE ACCESS (OPTIONAL)	9;E1,245	Direct Global Write The Text Generator and Vitals/Measurements can write the Write Access (Optional) for its files/fields. file is in the appropriate namespace as assigned by the DBA, and field is a valid field number of file.
21	DESCRIPTION	21;0	Direct Global Read Nursing is allowed direct global read access to the Descriptions for fields to print them out. Also included here are the direct global read references to the ^DD(file,field,21, subtree that would be necessary to read this WP field. file is a valid number in the Nursing numbers space as assigned by the DBA, and field is a valid field number for file.
	^DD(file,field,1,xref_ien, 1 SET STATEMENT		1;E1,245 Direct Global Read Nursing and the Text Generator are allowed to directly read the Cross-reference Set Statements for their package so they can be executed. file is a valid number in the appropriate number space as assigned by the DBA, field is a valid field number of file, and xref_ien is the cross-reference ien being used.
2	KILL STATEMENT	2;E1,245	Direct Global Read Nursing and the Text Generator are allowed to directly read the Cross-reference Kill Statements for their package so they can be executed. file is a valid number in the appropriate number space as assigned by the DBA, field is a valid field number of file, and xref_ien is the cross-reference ien being used.

Nursing and the Text Generator are allowed direct global read access to ^DD(file,field,1,xref_ien) in order to loop through the cross-reference multiple for their files, where file is in the package numberspace assigned by the DBA, field is a valid field in file, and xref_ien is the ien of the cross-reference for field in file.

```

^DD(file,'SB',
  Nursing can direct global read the ^DD(file,"SB") cross-reference to
  determine the sub-files for a particular file/sub-file. file is a
  valid number in the Nursing numberspace as assigned by the DBA.
^DD(124.21,0,'DIK')
  Vitals, Nursing & Text Generator have permission to kill off this
  node.
^DD(124.2,0,'DIKOLD')
  Vitals, Nursing & Text Generator have permission to kill off this
  node.
^DD(2,0,'IX','ANURS',2,.1)
  Nursing has permission to direct global kill/write this node when
  setting up the "ANURS" cross-reference in the Patient file. MAS has
  already approved this, see MailMessage #18109934.
^DD(2,.1,1,
  Nursing can direct global write the following nodes:
  ^DD(2,.1,1,xref_ien,0)="2^ANURS^MUMPS", ^DD(2,.1,1,xref_ien,1)="S
  %X=X,X="NURSCPL" X ^%ZOSF("TEST") S X=%X D:$T EN1^NURSCPL",
  ^DD(2,.1,1,xref_ien,2)="S %X=X,X="NURSCPL" X ^%ZOSF("TEST") S
  X=%X
  D:$T EN2^NURSCPL". xref_ien is the next available cross-reference
  ien for field .1. A direct global read is allowed on
  ^DD(2,.1,1,xref_ien) to loop through the xrefs of field .1. Nursing
  can direct global kill the ANURS cross-reference via a direct global
  kill of the ^DD(2,.1,1,xref_ien) node. xref_ien is ien of the ANURS
  xref (where $P(^DD(2,.1,xref_ien,0),"^",2)="ANURS"). MAS has already
  approved this use of their file, ref. msg #18109934.

```

ROUTINE:

```

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

```

ROUTINE:

```

*****
1430      NAME: GMRYRP1
CUSTODIAL PACKAGE: GEN. MED. REC. - I/O                          Chicago
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS                      Chicago
      USAGE: Private                               ENTERED: NOV 20,1995
      STATUS: Active                               EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:

```

External Relations

FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Nursing has permission to access the NEXT entry point for the GMRYRP1 routine. Vitals/Measurements is allowed to use the entry STARTD for the GMRYRP1 routine.

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

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

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

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

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

External Relations

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

1435 NAME: GMRYRP2
CUSTODIAL PACKAGE: GEN. MED. REC. - I/O Chicago
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
USAGE: Private ENTERED: NOV 20,1995
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine

Nursing and Vitals/Measurements can access the following entry points in
the GMRYRP2 routine.

ROUTINE: GMRYRP2
COMPONENT: SAVE
VARIABLES: DA(1) Input
Pointer to the GMRY Patient I/O file
(126).
II Input
Passed in with a value of "IN" or "OUT"
subscript of the GMRY Patient I/O file
(126).
GMRSTRT Input
Date/time the current nursing shift
starts.
GMRFIN Input
Date/time the current nursing shift ends.
TMP Output
^TMP(\$J,"GMRY") global contains intake
and output information for a selected
patient.

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

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

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

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

External Relations

GN(2)	Output	Number of output types listed in the GMRY Output Type file (126.58).
GIN	Output	Intake nursing shift total.
GOUT	Output	Output nursing shift total.
GTOTIN	Output	Intake day total.
GTOTOUT	Output	Output day total.

The Nursing End of Shift Report calls this entry point to aggregate the data obtained from the execution of SAVE^GMRYRP2 and ^GMRYRP2. The V/M Graphic Reports call this entry point to aggregate data obtained from the execution of STARTD^GMRYRP1, PT^GMRYUT0 and ^GMRYRP2.

```

1846      NAME: DBIA1846
CUSTODIAL PACKAGE: SCHEDULING                      Albany
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS      Chicago
      USAGE: Controlled Subscri  ENTERED: NOV 25,1996
      STATUS: Active                EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE: 44                      ROOT: SC(
      DESCRIPTION:                  TYPE: File
  
```

In addition to fields which are supported by DBIA 10040, DSS Extracts will reference the following data from the HOSPITAL LOCATION file (#44).

Numerous DSS extract files contain a field (e.g., WARD, CLINIC NAME, LOSING WARD, OR ROOM NUMBER, LOCATION (WARD OR CLINIC)) which is a pointer to the HOSPITAL LOCATION file (#44).

```

^SC(D0,0)
  3.5  DIVISION                0;15  Direct Global Read
  8    STOP CODE NUMBER        0;7   Direct Global Read
  2502 NON-COUNT CLINIC? (Y 0;17  Direct Global Read
  2503 CREDIT STOP CODE        0;18  Direct Global Read
      For a selected patient, DSS reads the entire zero node into a local
      variable. The fields above are used.
^SC(D0,I)
  2505 INACTIVATE DATE          I;1   Direct Global Read
  2506 REACTIVATE DATE          I;2   Direct Global Read
^SC(D0,S,D1,1,D2,0)
  .01  PATIENT                  0;1   Direct Global Read
  1    LENGTH OF APP'T          0;2   Direct Global Read
  310  APPOINTMENT CANCELLE     0;9   Direct Global Read
      DSS examines the APPOINTMENT DATE/TIME field (.01) within the
      APPOINTMENT multiple (1900) and within that multiple, the PATIENT
      multiple (2). The entire zero node is read into a local variable. The
      fields above are used.
^SC(D0,S,D1,1,D2,C)
  303  CHECK OUT                C;3   Direct Global Read
^SC(D0,S,D1,1,D2,OB)
  9    OVERBOOK                 OB;1  Direct Global Read
^SC(D0,SL)
  1912 LENGTH OF APP'T          SL;1  Direct Global Read
  1913 VARIABLE APP'TMENT      SL;2  Direct Global Read
  
```

ROUTINE:

3214 NAME: GMRYAPI
 CUSTODIAL PACKAGE: GEN. MED. REC. - I/O Chicago
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: OCT 16,2000
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 This routine provides entry points to return GEN. MED. REC. - I/O (aka Intake and Output) data to the calling application.

ROUTINE: GMRYAPI
 COMPONENT: INPUT()
 VARIABLES: This function returns the number of entries in the GMRY INPUT TYPE file (#126.56). There are no input or output variables for this function.
 COMPONENT: OUTPUT()
 VARIABLES: This function returns the number of entries in the GMRY OUTPUT TYPE file (#126.58). There are no input or output variables for this function.

3227 NAME: NURAPI
 CUSTODIAL PACKAGE: NURSING SERVICE Chicago
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: OCT 17,2000
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 This routine provides entry points to return Nursing package data to the calling package.

ROUTINE: NURAPI
 COMPONENT: ACTLOCS(.ARRAY)
 VARIABLES: ARRAY Both

Input - (Required) The name of the array to store the entries. Output - ArrayName(sequential #)=File 211.4 ien^File 44 name (for 211.4 ien).

If no active locations returns:
 ArrayName(1)="NO UNIT".

Returns all active nursing locations from the NURS LOCATION file (#211.4) in the array specified. FILE 211.4 points to HOSPITAL LOCATION file (#44).

COMPONENT: PTCHK(LOC)
 VARIABLES: LOC Input

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

This function indicates if any patients (active or inactive) are associated with the Nursing location identified.

Returns: 0 - no patients associated with this location
 1 - yes, patients are associated with this location
 -1 - (minus 1) LOC is undefined or not found

Returns: File 211.4 ien^File 44 ien
 COMPONENT: MASWARDS(LOC, .ARRAY)
 VARIABLES: LOC Input (Required) NURS LOCATION file (#211.4) ien.
 ARRAY Both Input - (Required) Name of array to return entries in. Output - ARRAY subscripted by the MAS WARD value.
 Example:

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

If LOC is null or not found, then
 ARRAY(1)=-1.
 Returns the MAS wards associated with this Nursing location in the array specified. The .01 field of the MAS WARD multiple of the NURS LOCATION file points to the WARD LOCATION file (#42).

3262 NAME: DEVICE FILE
 CUSTODIAL PACKAGE: KERNEL San Francisco
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: DEC 4,2000
 STATUS: EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 3.5 ROOT: %ZIS(1,
 DESCRIPTION: TYPE: File
 The GEN. MED. REC. - VITALS package (aka Vitals) requests permission to read File 3.5 values to handle printing from within the GUI environment.
 ^%ZIS(1,DA,1)
 1 \$I 0;2 Direct Global Read
 5.5 QUEUING 0;12 Direct Global Read
 ^%ZIS(1,DA,'SUBTYPE')
 3 SUBTYPE SUBTYPE; Direct Global Read
 ROUTINE:

3265 NAME: TERMINAL TYPE FILE
 CUSTODIAL PACKAGE: KERNEL San Francisco
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: DEC 4,2000
 STATUS: EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 3.2 ROOT: %ZIS(2,
 DESCRIPTION: TYPE: File
 The GEN. MED. REC. - VITALS package (aka Vitals) requests permission to read File 3.2 values to handle printing from within the GUI environment.
 ^%ZIS(2,DA,0)
 .01 NAME 0;1 Direct Global Read
 ^%ZIS(2,DA,1)
 1 RIGHT MARGIN 1;1 Direct Global Read
 ROUTINE:

External Relations

3266 NAME: DBIA 3266
CUSTODIAL PACKAGE: REGISTRATION
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
USAGE: Controlled Subscri ENTERED: DEC 5,2000
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
The patient lookup routine, DPTLK1, has a useful api for obtaining a formatted date of birth. Imaging is requesting permission to use this api.

ROUTINE: DPTLK1
COMPONENT: DOB
VARIABLES: DFN Input Patient's DFN.
 DGYR Input
 If input value is:
 0 - returns 4-digit year
 (default)
 1 - returns 2-digit year
 2 - returns filemanager date
 output DOB = mm/dd/yyyy (default)
 = mm/dd/yy, if DGYR=1
 = yyymmdd, if DGYR=2

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

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

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

3292 NAME: ORWPT PTINQ
CUSTODIAL PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS
USAGE: Controlled Subscri ENTERED:
STATUS: Active EXPIRES:
DURATION: VERSION:

FILE: ROOT:
 DESCRIPTION: TYPE: Remote Procedure
 Returns formatted patient inquiry text for display in GUI environment.

ROUTINE: PTINQ ORWPT

3736 NAME: CROSS-REFERENCE CREATION ERROR MESSAGE
 CUSTODIAL PACKAGE: CLINICAL REMINDERS Salt Lake City
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: AUG 29,2002
 STATUS: Active EXPIRES: AUG 29,2003
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 This will give calling packages the ability to generate a cross-reference
 creation error message.

ROUTINE: PXRMP12I
 COMPONENT: DCERRMSG
 VARIABLES: MSG Output
 XREF Output
 MSG is an array that contain's the
 FileMan generated error message.
 XREF is an array that contain's, the
 cross-reference setup information.

3752 NAME: PXR INDEX FOR GMRV VITAL MEASUREMENT FILE
 CUSTODIAL PACKAGE: CLINICAL REMINDERS Salt Lake City
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: SEP 6,2002
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 This entry point will set a GMRV Vital Measurement index entry.

ROUTINE: PXRMXRFS
 COMPONENT: SVITAL
 VARIABLES: X Input
 DA Input
 X is an array. X(1) is set to Date/Time,
 X(2) is set to DFN, X(3) is set to Vital
 Type, X(4) is set to Entered In Error.
 This entry point global allows Gen. Med. Rec. - Vitals to
 set the Clinical Reminder Index nodes for the GMRV VITAL
 MEASUREMENT, file # 120.5 entries.

3753 NAME: PXR DELETE FOR GMRV VITAL MEASUREMENT FILE INDEX
 CUSTODIAL PACKAGE: CLINICAL REMINDERS Salt Lake City
 SUBSCRIBING PACKAGE: GEN. MED. REC. - VITALS Chicago
 USAGE: Private ENTERED: SEP 6,2002
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine

External Relations

This entry point will delete a Gen. Med. Rec. - Vitals index entry.

ROUTINE: PXRMRFK

COMPONENT: KVITAL

VARIABLES: X Input

X is an array. X(1) is set to Date/Time,
X(2) is set to DFN, X(3) is set to Vital
Type, X(4) is set to Entered In Error.

DA Input

This entry point global allows Gen. Med. Rec. - Vitals to
delete the Clinical Reminder Index nodes for the GMRV VITAL
MEASUREMENT file, file # 120.5

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

```

14      NAME: DBIA14
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS           Chicago
SUBSCRIBING PACKAGE: HEALTH SUMMARY                 Salt Lake City
      USAGE: Private                               ENTERED: FEB 23,1990
      STATUS: Retired                               EXPIRES:
      DURATION: Till Otherwise Agr  VERSION:
      FILE:                                         ROOT:
DESCRIPTION:                                         TYPE: Routine

ROUTINE: GMRVUT0
COMPONENT: EN1
VARIABLES: Obtain vitals information.

```

```

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

```

ROUTINE:

```

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

```

Input Variables:

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

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

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

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

Output Variable:

X is set to the entire zeroth node for the entry in question in the Vital/Measurement file (#120.5), for example, ^GMR(120.5,IEN,0),

External Relations

where IEN is the subscript in the file that contains the data. The following shows the format of value contained in X.

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

```
ROUTINE: GMRVUTL
COMPONENT: EN6
VARIABLES: DFN          Input
                    The internal entry number in the Patient
                    file (#2).
          GMRVSTR       Input
                    The abbreviation of the vital/measurement
                    desired from the Vital Type file
                    (#120.51).
          X              Output
                    The entire zeroth node for the entry in
                    question in the Vital/Measurement file
                    (#120.5).
User can extract the latest record for a desired vital type
from the Vital/ Measurement database for a particular
patient.
```

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

ROUTINE:

```
1382      NAME: GMRV VITAL TYPE
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS          Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE                Chicago
          USAGE: Private          ENTERED: NOV 7,1995
          STATUS: Active          EXPIRES:
          DURATION: Till Otherwise Agr VERSION:
          FILE: 120.51           ROOT: GMRD(120.51,
```

DESCRIPTION: TYPE: File
 Nursing has permission to access the GMRV Vital Type (120.51) file.
 ^GMRD(120.51,D0,0)
 .01 NAME 0;1 Direct Global Read
 ^GMRD(120.51,'C',
 Direct global read on the "C" cross-reference.

ROUTINE:

1383 NAME: GMRV VITAL SITE
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: NOV 7,1995
 STATUS: Retired EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 120.52 ROOT: GMRD(120.52,
 DESCRIPTION: TYPE: File
 Nursing has permission to access the following fields in the GMRV Vital
 Site (120.52) file.
 ^GMRD(120.52,D0,0)
 .01 NAME 0;1 Both R/W w/Fileman
 Also Nursing is allowed to
 LAYGO entries into the file
 using FileMan.
 ^GMRD(120.52,D0,1,D1,0)
 .01 VITAL TYPE 0;1 Both R/W w/Fileman

ROUTINE:

1384 NAME: GMRV VITAL SITE
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: NOV 7,1995
 STATUS: Retired EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 120.53 ROOT: GMRD(120.53,
 DESCRIPTION: TYPE: File
 Nursing has permission to access the following fields in the GMRV Vital
 Site (120.53) file.
 ^GMRD(120.53,D0,0)
 .01 NAME 0;1 Both R/W w/Fileman
 This DBIA also allows Nursing
 to LAYGO to this file using
 FileMan.
 ^GMRD(120.53,D0,1,D1,0)
 .01 VITAL TYPE 0;1 Both R/W w/Fileman

ROUTINE:

1431 NAME: GMRVDS0
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: NOV 20,1995
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:

External Relations

FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the GMRVDS0 routine as described in this DBIA.

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

1439 NAME: GMRVDS1
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private ENTERED: NOV 21,1995
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:

FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry point in the GMRVDS1 routine as
described in this DBIA.

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

1440 NAME: GMRVED0
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private ENTERED: NOV 22,1995
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:

FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry points described in this DBIA for
the GMRVED0 routine.

ROUTINE: GMRVED0
COMPONENT: EN3
VARIABLES: DFN Input Patient IEN.
GMROUT Both This variable indicates whether the user
abnormally exited the input process. It
is passed in with a value of 0.
GNUROP Input This variable is passed in with a value
of 1 to indicates that the edit process
is requested by the Nursing Service.

External Relations

DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry point described in this DBIA for the GMRVSAS0 routine.

ROUTINE: GMRVSAS0
COMPONENT: EN1
VARIABLES: GMRVX Input
GMRVX(0) Input
GMRVX(1) Output
This variable is passed in with a value of "T", "P", "R", "B" or "BP" as vital type code.
This variable contains vital data for the screening.
If the output value equals 0 - vital data within normal range. If the output value equals 1 - abnormal value defined in the GMRV Vitals Parameters file (125.57).
This entry point is called for checking the abnormal vital/measurement.

1444 NAME: GMRVSC0
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private ENTERED: NOV 22,1995
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry points described in this DBIA for the GMRVSC0 routine.

ROUTINE: GMRVSC0
COMPONENT: DATE
VARIABLES: GMROUT Both
GMRVSDT Output
GMRVFDT Output
This variable indicates whether the user abnormally exited the call. It is passed in with a value of 0.
Start date/time of the date range.
End date/time of the date range.
This entry point allows user to define start date/time and end date/time for a date range.
COMPONENT: EN5
VARIABLES: DFN Input
GMRX Input
GMROUT Both
GMRVSDT Input
GMRVFDT Input
Patient IEN.
Patient admission date/time.
This variable indicates whether the user abnormally exited the report process. It is passed in with a value of 0.
Start date/time of the date range.
End date/time of the date range.

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

BMI^LO2^PO2^AQUAL
where:

VDT = Date/time
vital/measurement taken (FM format)
DFN = IEN for patient in
Patient file.
ITYP = IEN for vital type in
GMRV Vital Type file.
EDT = Date/time
vital/measurement entered (FM format)
LOC = IEN for patient location
in Hospital Location file.
USER = User who entered data;
IEN in New Person file.
ISITE = IEN for site in GMRV
Vital Site file.
RATE = Rate for this
vital/measurement (alphanumeric).
IQUAL = IEN for quality in GMRV
Vital Quality file.
SITE = Site of
vital/measurement (free text).
QUAL = Quality of
vital/measurement (free text).
ABN = Flag indicating whether
vital/measurement is abnormal.
* indicates abnormal,
null indicates normal.
UNIT = Units of measurement for
rate when appropriate, e.g.
Centigrade for
temperature, Kg for weight and centimeter
for height.
BMI = Body Mass Index
(numeric);value calculated from height;
(Applies only to the
vital type WT (Weight))
LO2 = Liters/Minute of
supplemental O2 (numeric).
(Applies only to the
vital type PO2 (Pulse Oximetry)).
PO2 = % of supplemental O2
(numeric).
(Applies only to the
vital type PO2 (Pulse Oximetry)).
AQUAL = All qualifiers (free
text);
Each qualifier is
separated by a ;.

GMRVSTR('L Input

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

User can use this entry to gather patient vital/measurement

External Relations

data.

1447 NAME: GMRVUT2
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago

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

FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry point described in this DBIA for the GMRVUT2 routine.

ROUTINE: GMRVUT2
COMPONENT: SETU2
VARIABLES: DFN Input

GMRVSTR Input Patient IEN.

GMRVSTR(0) is passed in with a value of "^^1^1". GMRVSTR("T") is passed in with the abbreviation "WT" found in the GMRV Vital Type file (120.51). GMRVSTR("IEN") is passed in with a GMRV Vital Measurement file (120.5) pointer. GMRVSTR("R") is passed in with the date/time the weight was measured.

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

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

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

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

FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing can access the following entry points described in this DBIA for the GMRVVS0 routine.

ROUTINE: GMRVVS0
COMPONENT: EN1
VARIABLES: DFN Input

GFLAG Input Patient IEN.

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

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

GMRNUR Input This variable is set to a value of 0 to

External Relations

validate measurement data (which uses PCE Device Interface Specification), print help for a particular measurement, or validate a particular measurement.

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

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

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

COMPONENT: STORE (PXCA)
VARIABLES: PXCA Both

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

This component will validate and store data in the Vitals/Measurements database which is in the format described in the PCE Device Interface Specification. It will return PXCA("ERROR") if there was a problem with the data.

COMPONENT: HELP (TYPE, HLPARRAY)
VARIABLES: TYPE Input

Type of measurement. This is a required variable and is the abbreviation for the measurement type found in the PCE Device Interface Specification.

HLPARRAY Input

This is an optional variable describing location where the help will be found after the procedure call. This is a closed array reference, and if not specified, data will be returned in ^TMP(\$J,"GMRVHELP").

TMP(\$J,'GM Output

Either this variable or the array defined by HLPARRAY will contain the help for this measurement type. The format is ^TMP(\$J,"GMRVHELP",X) where X is a number

between 1 and the number of lines of help text.

This procedure will return help for a particular measurement type.

COMPONENT: \$\$RATECHK (TYPE, RATE, UNIT)

VARIABLES: TYPE Input

Type of measurement. This is a required variable and is the abbreviation for the measurement type found in the PCE Device Interface Specification.

RATE Input

The rate to be validated for this measurement type. This variable is required.

UNIT Input

This is an optional variable which will contain the units of measurement for RATE.

\$\$RATECHK Output

The function value will either be 1, rate is valid, or 0 rate is not valid.

This function will validate a rate for a particular measurement type.

COMPONENT: \$\$VMTYPES (TYPE)

VARIABLES: TYPES Input

Input as the type of vital.

RESULT Output

Result of extrinsic function (\$\$VMTYPES (TYPE)) is set to 1 if valid or 0 otherwise.

Returns a 1 if the type of vital is valid and 0 otherwise.

1914 NAME: GMRVALL0
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: JAN 29, 1997
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 Nursing can access the following entry point described in this DBIA for GMRVED0 routine.

ROUTINE: GMRVALL0

COMPONENT: LIST

VARIABLES: GNUR0P Input

This variable is passed in with a value of 1 to indicate that the edit process is requested by the Nursing Service.

GMROUT Both

This variable indicates whether the user abnormally exited the vitals/measurements selection. It is passed in with a value of 0.

GMRENTY Output

The type of vitals/measurements to edit.

GMRSTR Output

The string of which vitals/measurements to edit, for example, "T;P;R;BP;".

External Relations

This entry point displays the vitals/measurements for the User Configurable Combination option. This option allows users to select types of vitals/measurements to edit.

1927 NAME: Vitals File Access for CPRS/OERR - GMR(120.5)
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
USAGE: Private ENTERED: FEB 7,1997
STATUS: Pending EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 120.5 ROOT: GMR
DESCRIPTION: TYPE: File
The file GMR(120.5 is supported by Vitals/Measurements for use by CPRS/OERR to return most recent vitals for a patient. The "AA" x-ref and zero nodes are used.

ROUTINE:

1928 NAME: Vitals File Access for CPRS/OERR - GMRD(120.51)
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
USAGE: Private ENTERED: FEB 7,1997
STATUS: Pending EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 120.51 ROOT: GMRD
DESCRIPTION: TYPE: File
The file GMRD(120.51 is supported by Vitals/Measurements for use by CPRS/OERR to return most recent vitals for a patient. The "B" x-ref is used.

ROUTINE:

1938 NAME: GMRVSITE
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private ENTERED: FEB 19,1997
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
The Nursing package can use the DEFAULT and CHAR entry points in the GMRVSITE routine of the Vitals/Measurements package.

ROUTINE: GMRVSITE
COMPONENT: DEFAULT
VARIABLES: The Change Default Qualifiers for Temp./Pulse [NURCPE-VIT VMQUALITY] option can call this entry point to change default qualifiers for temperature and pulse entries in the GMRV VITAL CATEGORY (#120.53) file.
COMPONENT: CHAR
VARIABLES: The Enter/Edit Vitals Qualifiers [NURCPE-VIT VMSITE] option can call this entry point to configure the GMRV VITAL QUALIFIER (#120.52) file entries.

1940 NAME: GMRVCAQU
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
 USAGE: Private ENTERED: FEB 19,1997
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE: Routine
 The Nursing package can call EN1^GMRVCAQU in the Vitals/Measurements package.

ROUTINE: GMRVCAQU
 COMPONENT: EN1
 VARIABLES: The Display Vitals Category/Qualifier Table [NURCPE-VIT CAT/QUAL TABLE] option can call this entry point to display a table of categories and qualifiers for various vitals/measurements (e.g., blood pressure).

2087 NAME: DBIA2087
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: PCE PATIENT CARE ENCOUNTER Albany
 USAGE: Private ENTERED: AUG 26,1997
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 120.5 ROOT: GMR(120.5,
 DESCRIPTION: TYPE: File
 This is used in the Caseload Profile report. It is looking for blood pressures above 159/90 (either value high).
 ^GMR(120.5,D0,0)
 .01 DATE/TIME VITALS TAK 0;1 Direct Global Read
 .03 VITAL TYPE 0;3 Direct Global Read
 1.2 RATE 0;8 Direct Global Read
 ^GMR(120.5,C,
 This is the "C" cross reference. Direct Global Read.

ROUTINE:

2940 NAME: OE/RR use of GMRD(120.51
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS
 SUBSCRIBING PACKAGE:
 USAGE: Private ENTERED: OCT 28,1999
 STATUS: EXPIRES:
 DURATION: VERSION:
 FILE: ROOT:
 DESCRIPTION: TYPE:

ROUTINE:

3112 NAME: DBIA3112
 CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
 SUBSCRIBING PACKAGE: CLINICAL REMINDERS Salt Lake City
 USAGE: Private ENTERED: MAY 17,2000
 STATUS: Active EXPIRES:
 DURATION: Till Otherwise Agr VERSION:
 FILE: 120.51 ROOT: GMRD(120.51

External Relations

DESCRIPTION: TYPE: File
GMRV VITAL TYPE entries are used as findings in Clinical Reminders.
Therefore Clinical Reminders needs to point to GMRV VITAL TYPE entries. It
also needs the PCE ABBREVIATION for reminder dialogs.

^GMRD(120.51,D0,0
.01 NAME 0;1 Pointed to
7 PCE ABBREVIATION 0;7 Read w/Fileman

ROUTINE:

3196 NAME: GMVUTL7
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: ORDER ENTRY/RESULTS REPORTING Salt Lake City
USAGE: Private ENTERED: SEP 13,2000
STATUS: EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Remote Procedure

ROUTINE:

3450 NAME: VITALS TYPE POINTER
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: HEALTH SUMMARY Salt Lake City
GMRV VITAL TYPE entries are used as selected items in
the Selected Vitals Health Summary Component.
Therefore Health Summary needs to point to GMRV VITAL
TYPE entries.

USAGE: Controlled Subscri ENTERED: SEP 11,2001
STATUS: Pending EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 120.51 ROOT: GMRD(120.51,
DESCRIPTION: TYPE: File
^GMRD(120.51,DO,0)
.01 NAME 0;1 Pointed to
This field reflects a list of
vital signs/physical
measurement types.

ROUTINE:

3647 NAME: GMRVPXRM
CUSTODIAL PACKAGE: GEN. MED. REC. - VITALS Chicago
SUBSCRIBING PACKAGE: CLINICAL REMINDERS Salt Lake City
USAGE: Controlled Subscri ENTERED: AUG 8,2002
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine

ROUTINE: GMRVPXRM
COMPONENT: EN
VARIABLES: GMVDATA Both

The name of the array to return the
information in, passed by reference

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)          CREATOR: TRAXLER,FRANK
  PACKAGE: GEN. MED. REC. - VITALS
  DESCRIPTION: This option controls access to the GUI Vitals/Measurements
  application.
  TIMESTAMP OF PRIMARY MENU: 59099,60345
RPC: GMV MANAGER
RPC: GMV ADD VM
RPC: GMV ALLERGY
RPC: GMV CLINIC PT
RPC: GMV CONVERT DATE
RPC: GMV CUMULATIVE REPORT
RPC: GMV ENTERED IN ERROR-PATIENT
RPC: GMV EXTRACT REC
RPC: GMV GET CURRENT TIME
RPC: GMV LATEST VITALS BY LOCATION
RPC: GMV LATEST VITALS FOR PATIENT
RPC: GMV LATEST VM
RPC: GMV MARK ERROR
RPC: GMV PT GRAPH
RPC: GMV PTSELECT
RPC: GMV QUALIFIER TABLE
RPC: GMV ROOM/BED
RPC: GMV TEAM PATIENTS
RPC: GMV V/M ALLDATA
RPC: GMV VITALS/CAT/QUAL
RPC: GMV WARD LOCATION
RPC: GMV WARD PT
RPC: GMV WARD/ROOM PATIENTS
RPC: GMV USER
RPC: GMV NUR UNIT PT
RPC: GMV CHECK DEVICE
RPC: GMV PARAMETER
RPC: ORWPT PTINQ
  UPPERCASE MENU TEXT: VITALS/MEASUREMENTS GUI APPLIC
```


10. Package-wide Variables

No package-wide variables are used in this application.

11. SAC Exemptions

There is one SAC Exemption associated with this package.

VITALS/MEASUREMENTS

- 1 STANDARD SECTION: 1 ANSI
DATE GRANTED: JAN 25, 1996
Vitals/Measurements has been granted a SAC exemption to use the 1995 VA SAC #4.4.2.1 to use \$TEXT on a line that doesn't contain ;; to check for the existence of a routine.

12. Software Product Security

Security Management

No additional security measures are to be applied. Vitals/Measurements uses the standard RPC broker log-in procedure to validate the user and allow access to the system.

No additional licenses are necessary to run the software.

Confidentiality of staff and patient data and the monitoring of this confidentiality is no different than with any other paper reference.

Security Features

a. Mail groups and alerts.

There are no mail groups or alerts associated with this software.

b. Remote systems.

The application does not transmit data to any remote system/facility database.

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.

h. Security Keys.

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

i. File Security.

NUMBER	NAME	GLOBAL NAME	DD ACC	RD ACC	WR ACC	DEL ACC	LAY ACC	AUD ACC
120.5	GMRV VITAL MEASUREMENT	^GMR(120.5,	@		@	@	@	
120.51	GMRV VITAL TYPE	^GMRD(120.51,	@		@	@	@	
120.52	GMRV VITAL QUALIFIER	^GMRD(120.52,	@		@	@	@	
120.53	GMRV VITAL CATEGORY	^GMRD(120.53,	@		@	@	@	
120.57	GMRV VITALS PARAMETERS	^GMRD(120.57,	@		@	@	@	

j. References.

There are no special reference materials for this package.

k. Official Policies.

There are no special official policies for this package.

13. Glossary

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

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

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

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

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

BMI This is the patient's body mass index, which is calculated by dividing the person's weight in kilograms by the square of his height in meters.

Bulletin A canned message that is automatically sent by MailMan to a user when something happens to the database.

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

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

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

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

Field A data element in a file.

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

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

Global An M term used when referring to a file stored on a storage medium, usually a magnetic disk. In the Vitals software, for example, vitals data is stored in one global, and patient data is stored in another global.

GMRV This signifies the General Medical Record namespace assigned to the Vitals/Measurements application.

GMRY This signifies the General Medical Record namespace assigned to the Intake and Output application.

GMV Vitals/Measurements namespace, parent package to GMRV.

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

I&O The Intake and Output application.

IRMS Information Resource Management Service.

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

LAYGO An acronym for Learn As You Go. A technique used by VA FileMan to acquire new information as it goes about its normal procedure. It permits a user to add new data to a file.

M Formerly known as MUMPS or the Massachusetts (General Hospital) Utility Multi-Programming System. This is the programming language used to write all *VISTA* applications.

MailMan An electronic mail, teleconferencing, and networking system.

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

Module A component of the Vitals software application that covers a single topic or a small section of a broad topic.

- Namespace** A naming convention followed in the VA to identify various applications and to avoid collision between applications. It is used as a prefix for all routines and globals used by the application. The Vitals package uses GMV as its namespace.
- OIFO** Office of Information Field Office, formerly known as Information Resource Management Field Office, and Information Systems Center.
- Option** A functionality that is invoked by the user. The information defined in the option is used to drive the menu system. Options are created, associated with others on menus, or given entry/exit actions. For example, the GMV V/M GUI is the main menu for the Vitals/Measurements application.
- Package** Otherwise known as an application. A set of M routines, files, documentation and installation procedures that support a specific function within *VISTA* (e.g., the ADT and Vitals/Measurements applications).
- Password** A protected word or string of characters that identifies or authenticates a user, a specific resource, or an access type (synonymous with Verify Code).
- PIMS** Patient Information Management System previously known as the MAS Package.
- Pointer** A special data type of VA FileMan that takes its value from another file. This is a method of joining files together and avoiding duplication of information.
- Program** A set of M commands and arguments, created, stored, and retrieved as a single unit in M.
- Protocol** A single entry point referencing multiple routine entry points to execute several inter related, required processes which perform specific functions. When multiple protocols are associated with a single procedure (i.e., intravenous lines or IV lines), they are found grouped under a single option.
- Qualifier** A word that gives a more detailed description of an item.
- Queuing** The scheduling of a process/task to occur at a later time. Queuing is normally done if a task uses up a lot of computer resources.
- <RET>** Carriage return.
- Routine** A set of M commands and arguments, created, stored, and retrieved as a single unit in M.
- Security Key** A function which unlocks specific options and makes them accessible to an authorized user.

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

Site Configurable A term used to refer to features in the system that can be modified to meet the needs of each site.

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

Synonym A qualifier abbreviation appended to vitals/measurements numeric values on graphic reports.

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

User A person who enters and/or retrieves data in a system, usually utilizing a CRT.

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

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

VISTA Veterans Health Information Systems and Technology Architecture.

Vital Type A category of vital sign or measurement (e.g., pulse, respiration, blood pressure, temperature).

Workstation A personal computer running the Windows 9x or NT operating system.