Preface

The Intake and Output Technical Manual and Package Security Guide has been developed for IRMS (Information Resource Management Service) and CIOFO (Chief Information Office Field Office) support personnel and contains technical information on the application. The content covers: software implementation and maintenance, routine descriptions, a file list, an exported option list, cross-references, security issues, archiving and purging, resource requirements, callable routines, external relations, package-wide variables, and on-line documentation.

The Intake and Output Technical Manual and Package Security Guide is one of four manuals associated with the application. Information discussing the functionality of the software’s menus and options is found in the Intake and Output User Manual. Information critical to the successful installation of the software can be found in the Intake and Output Installation Guide. New release changes can be found in the Intake and Output Release Notes.
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    Menus........................................................................................................ 13.2
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Introduction

The Intake and Output (I&O) application is designed to store, in the patient’s electronic medical record, all patient intake and output information associated with a patient’s hospital stay or outpatient visit. This application is not service specific and currently is interfaced with the PIMS (MAS), Nursing, and Pharmacy applications.

Functionality:

- Users may electronically document patient intake (e.g., oral fluids, tube feedings, intravenous fluids, irrigations, and other types of intake defined by the facility) and patient output (e.g., excreted patient material such as urine, nasogastric secretions, emesis, drainage, liquid feces/stool, and other types of output defined by the facility).

- Intake data can be entered through either a quick or detailed route. The quick route documents the total fluid consumed. Detailed information requests the user to enter specific type of fluid intake (e.g., orange juice, water, soup) along with the quantity absorbed.

- The Start/Add/DC IV and Maintenance option contains seven protocols associated with intravenous therapy:
  1. Start IV - Start a new IV line or heparin/saline lock/port.
  2. Solution: Replace/DC/Convert/Finish Solution - DC current solution then replace a new solution to the selected IV line or convert the IV according to the user’s choice.
  3. Replace Same Solution - Replace the same solution to a selected IV.
  4. D/C IV Lock/Port and Site - Remove IV/lock/port from a selected IV site.
  5. Care/Maintenance/Flush - Check site condition, dressing change, tube change and flush.
  6. Add Additional Solutions(s) - Add additional solution(s) without discontinuing an existing one.
  7. Restart DC’d IV - Restart an IV which was DC’d due to infiltration or other reasons.
  8. Adjust Infusion Rate - Adjust infusion rate for a selected IV.
  9. Flush - Flush all IV line(s) for a selected infusion site.

- The software supports documentation of intravenous intake via both single and multi-lumen catheters.

- The software is interfaced with the IV module of the Pharmacy software.
The following reports are included:

- Print I/O Summary by Patient (by Shift and Day(s))
- Print I/O Summary (Midnight to Present)
- Print I/O Summary (48 Hrs)
- 24 Hours Itemized Shift Report
- Intravenous Infusion Flow Sheet

The last four reports can be printed for all patients on a ward, for patients in selected rooms on a ward, and for an individual patient.

Patient Intake and Output information is printed on the following Nursing application reports:

- End of Shift Report
- Vital Signs Record
- Expanded SF511 Report (Itemized I/O)

This version of Intake and Output is not interfaced with the Health Summary or the Order Entry/Results Reporting applications.
Chapter 1 Implementation and Maintenance

Description:
This chapter provides guidelines for implementing the Intake and Output (I&O) application. It is important to complete all of the steps contained in this chapter before assigning menu options to patient care services staff.

Virgin Installation of Software:
The following steps should be followed when the Intake and Output software is installed in an environment where no previous installation of the Intake and Output application has taken place.

1. Setting up the software environment
Information Resource Management Services (IRMS) staff must install the software using the Installation Guide in either a test environment or the production (VAH) directory. The following VISTA (Veterans Health Information Systems and Technology Architecture) packages should reside in the environment where the Intake and Output application is to be installed:
   a. Kernel V. 8.0 or greater,
   b. Kernel Toolkit V. 7.3 or greater,
   c. VA FileMan V. 21 or greater,
   d. PIMS (MAS) V. 5.3 or greater,
   e. Inpatient Medications V. 4.5 or greater (optional).

The Intake and Output software must be installed before the Nursing (V. 4.0) application can be installed because specific Nursing (V. 4.0) options are dependent upon the Intake and Output routines. 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.

The Intake and Output application displays ordered IV solutions (for a patient) from the Inpatient Medications software. Without Inpatient Medications loaded, users may still implement the Start/Add/DC IV and Maintenance module of the Intake and Output package.

2. Name spacing and file listing.
Intake and Output is found in the GMRY namespace. All routines, templates and options begin with GMRY. File numbers are in the range of 126 to 126.95 and are stored in the ^GMR and ^GMRD globals.
3. Editing site configurable files
   a. The Intake Type option edits the GMRY Input Type (#126.56) file.
   b. The Output Type option edits the GMRY Output Type (#126.58) file.
   c. The Output Subtype option edits the GMRY Output Subtype (#126.6) file.
   d. The Intake Items option edits the GMRY Intake Items (#126.8) file.
   e. The IV Site option edits the GMRY IV Site (#126.7) file.
   f. The IV Solution option edits the GMRY NUR IV Solution (#126.9) file.
   g. The Shift Starting Hour and Other Parameters option edits the GMRY NUR Shift/Other (#126.95) file.
   h. The IV Site Description option edits the GMRY IV Site Description (#126.72) file.
   i. The IV Catheter option edits the GMRY IV Catheter (#126.74) file.
   j. The IV DC'ed Reason option edits the GMRY IV DC'ed Reason (#126.76) file.

A primary concern for the ADP Coordinator is the Configure I/O Files (Option 9) in the GMRYMGR menu option that contains the options listed in a-j (above). This option allows you to enter: a) various IV or oral fluids and the amount in milliliters associated with containers, b) names of IV sites that may be specific to your facility, c) various needle sizes and other items associated with the Intake and Output software. The package is exported with a few file entries but you have the opportunity to enter information which will meet the needs of your facility since these are site configurable files.

4. Queueing TaskMan jobs.

No scheduled TaskMan options are associated with this application.
5. GMRY and NUR I&O options.

There is a separate set of similar options that are used to document and print I&O data in both the Intake and Output, and the Nursing applications. In the Intake and Output package, the software identifies a patient’s ward or clinic location using the Hospital Location (#44) file. The Nursing package uses the Nursing Location (#211.4) file to identify an inpatient’s associated nursing unit. Providing access to I&O options through the Nursing application was done for the convenience of nursing package users to streamline their inpatient workload. All data entered through either package is stored in the Intake and Output application’s files.

6. Assigning menus.

The GMRYMGR menu contains the following menus and options and is the primary menu for the application’s ADP Coordinator.

Select OPTION NAME: GMRYMGR Patient Intake/Output Menu

<table>
<thead>
<tr>
<th>OPTION</th>
<th>DATE RANGE</th>
<th>WARD</th>
<th>SELECTED RM</th>
<th>PATIENT</th>
<th>SCREEN PRT</th>
<th>ITEMIZED*</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>5</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>6</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>7</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>8</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES(IV)</td>
</tr>
</tbody>
</table>
Implementation and Maintenance

*NOTE: For intake to be itemized DETAILED INPUT in the Enter/Edit Patient Intake option must be used. IV solutions will display names from the IV option.

7. Printer related issues

Reports can be printed on a dot matrix printer or a laser printer. There are no linear graphic reports for this version of Intake and Output.

Non-Virgin Installation of Software

Follow steps 1 through 8 (above) when preparing the Intake and Output software for use in an environment where a previous version of the application has been installed.

Resource Requirements

1. Data Entry and Printer Devices:

The minimal hardware requirements for input and output devices is dependent upon the location in which patient care is provided and the quality of reports generated.

Input devices: In an inpatient setting, there should be a sufficient number of data input devices at the point of care, in the nurse’s station, physician offices, and conference rooms. Ambulatory Care settings should provide input devices at the point of care, physician offices, conference rooms and reception areas.

Output devices: There should be minimally one to two laser printers on an inpatient unit to support this application. Ambulatory care area should have a printer in both the reception area and a centralized location in each clinic.

2. Disk Storage:

The following statistics regarding the disk storage requirements of the Intake and Output software were compiled by the Alpha/Beta test sites.

<table>
<thead>
<tr>
<th>Globals</th>
<th>Type of Data</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dls</td>
<td>Patient data for the Text Generator, Vitals/Measurements and Intake and Output Modules</td>
<td>90 k</td>
</tr>
<tr>
<td>GMR</td>
<td>5-20 k/patient</td>
<td></td>
</tr>
</tbody>
</table>
### Globals

<table>
<thead>
<tr>
<th>Type of Data</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static data for the Text Generator, Vitals/Measurements, and Intake and Output Modules</td>
<td>20 k depending on the global efficiency</td>
</tr>
</tbody>
</table>

**Future Plans:**

Intake and Output will be enhanced in later versions to meet the needs of the medical facilities. A link with Health Summary is planned.
Chapter 2 Routine Descriptions

GMRYCATH ; HIRMFO/YH-UTILITY FOR CATHETER AND OTHER ; 11/6/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYDCIV ; HIRMFO/YH-DISCONTINUE IV LINES AND INFUSION SITE ; 8/15/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYDIR ; HIRMFO/YH-REPLACE ... WITH ; 12/14/95
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYE0 ; HIRMFO/YH-INTAKE, OUTPUT AND IV ENTRY POINTS ; 5/2/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYE1 ; HIRMFO/YH-ENTER/EDIT PATIENT INTAKE/OUTPUT ; 1/17/97
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYE2 ; HIRMFO/YH-PATIENT SEARCH/START IV ; 1/17/97
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYE3 ; HIRMFO/YH-START IV AND IV MAINTENANCE ENTRY POINT ; 9/10/92
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYE4 ; HIRMFO/YH-INTRAVENOUS INFUSION PROTOCOL ; 10/16/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYE5 ; HIRMFO/YH-IV ACCESS, IV SOLUTIONS AND CATHETERS ; 10/3/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYE6 ; HIRMFO/YH-D/C IV AND IV SITE MAINTENANCE ; 9/10/92
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYFILE ; HIRMFO/FT-Set I/O File Security ; 3/5/97 16:41
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYFLSH ; HIRMFO/YH-FLUSH IV LINES FOR A SELECTED IV SITE ; 6/5/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYFLW0 ; HIRMFO/YH-INTRAVENOUS INFUSION FLOW SHEET ; 1/25/93
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYFLW1 ; HIRMFO/YH-INTRAVENOUS INFUSION FLOW SHEET CONT. ; 8/9/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYFLW2 ; HIRMFO/YH-IV FLOW SHEET UTILITY ; 8/9/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYINFS ; HIRMFO/YH-ADJUST INFUSION RATE ; 4/5/94
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYINTK ; HIRMFO/YH-PATIENT INTAKE ; 11/6/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYMNT ; HIRMFO/YH-SITE CARE/MAINTENANCE/FLUSH ; 8/13/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYMNT1 ; HIRMFO/YH-IV CARE/MAINTENANCE/FLUSH (CONTINUE) ; 8/13/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYPSIV ; HIRMFO/YH-DISPLAY ACTIVE PATIENT IV ORDER ; 5/22/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYRP0 ; HIRMFO/YH-PATIENT INTAKE/OUTPUT REPORT ; 2/25/91
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYRP1 ; HIRMFO/YH-TMP FOR PATIENT INTAKE/OUTPUT REPORTS-1 ; 2/28/91
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYRP2 ; HIRMFO/YH-TMP FOR PATIENT INTAKE/OUTPUT REPORTS-2 ; 2/28/91
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYRP3 ; HIRMFO/YH-PATIENT INTAKE/OUTPUT REPORT HEADING ; 3/6/91
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYRP4 ; HIRMFO/YH-TMP FOR SUMMING UP PATIENT I/O ; 3/6/91
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYRP5 ; HIRMFO/YH, RM-PATIENT SEARCH BY MAS WARD ; 11/7/95
  ; 4.0; Intake/Output; ; Mar 31, 1997
GMRYSE0 ; HIRMFO/YH-ITEMIZED PATIENT I/O REPORT BY SHIFT PART 1 ; 5/13/96
  ; 4.0; Intake/Output; ; Mar 31, 1997
Routine Descriptions

GMRYSE1 ;HIRMFO/YH-ITEMIZED PATIENT I/O REPORT BY SHIFT PART 2 ;5/13/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYSE2 ;HIRMFO/YH-ITEMIZED PATIENT I/O REPORT BY SHIFT PART 3 ;3/11/91
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYSE3 ;HIRMFO/YH-ITEMIZED PATIENT I/O REPORT BY SHIFT PART 4 ;5/13/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYSTCA ;HIRMFO/YH-IV SITE AND CATHETER SELECTION ;3/1/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT0 ;HIRMFO/YH-PATIENT I/O UTILITIES - PATIENT SEARCH AND IV DISPLAY
 ;2/12/91
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT1 ;HIRMFO/YH-PATIENT I/O UTILITIES - IV SEARCH BY TYPE ;2/14/91
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT10 ;HIRMFO/YH-IV RESTART ;6/11/93
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT11 ;HIRMFO/YH-IV FLUSH ;10/18/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT12 ;HIRMFO/YH-ROOM SEARCH AND OTHER UTILITIES ;11/6/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT13 ;HIRMFO/YH-INTRA VENOUS INFUSION PROTOCOL ;10/16/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT2 ;HIRMFO/YH-PATIENT I/O UTILITIES - CALLS FROM DD AND IV SITE CHECK
 ;5/10/91
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT3 ;HIRMFO/YH-PATIENT I/O UTILITIES - DIC CALL ;11/6/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT4 ;HIRMFO/YH,RM-PATIENT SELECTION BY UNIT, ROOM OR SINGLE PATIENT
 ;11/7/95
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT5 ;HIRMFO/YH-UTILITIES FOR IV INPUT/OUTPUT TRANSFORM ;5/13/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT6 ;HIRMFO/YH-IV SOLUTION SELECT FROM PHARMACY/NURS FILES ;5/13/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT7 ;HIRMFO/YH-IV SOLUTION SELECT TO START ;10/16/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT8 ;HIRMFO/YH-IV/LOCK/PORT ENTER/EDIT ;2/12/91
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYUT9 ;HIRMFO/YH-LIST/SELECT IV LINES ;10/15/96
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYXENV ;HIRMFO/FT-Environment Check for intake & Output v4.0 ;1/21/97
14:26
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYXPOS ;HIRMFO/YH,RM-POST INITIALIZATION FOR INTAKE/OUTPUT ;1/22/97
 ;;4.0;Intake/Output;;Mar 31, 1997
GMRYXPRE ;HIRMFO/YH,RM-PRE INITIALIZATION FOR INTAKE/OUTPUT ;1/22/97
 ;;4.0;Intake/Output;;Mar 31, 1997

2.2 Intake and Output V. 4.0
Chapter 3 File List and Related Information

File Descriptions

GMRY PATIENT I/O FILE  126
This file contains a patient's intake and output measurements.

GMRY INPUT TYPE  126.56
This file contains a list of major input/intake types such as PO, TUBE FEEDING, etc. The ADP Coordinator is allowed to configure the file entries.

GMRY OUTPUT TYPE  126.58
This file contains the major output types such as URINE, STOOL, DRAINS, etc. The ADP Coordinator is allowed to configure the file entries.

GMRY OUTPUT SUBTYPE  126.6
This file contains subtypes associated with the output types. For example, void, foley and suprapubic are subtypes of the output type urine. The ADP Coordinator is allowed to configure the file.

GMRY IV SITE  126.7
This file contains a list of IV infusion sites. The ADP Coordinator is allowed to configure the file.

GMRY IV SITE DESCRIPTION  126.72
This file contains descriptions of IV infusion site conditions. The ADP Coordinator is allowed to enter/edit the file entries.

GMRY IV CATHETER  126.74
This file contains the names of IV catheters in different types and sizes. The ADP Coordinator is allowed to enter/edit the file entries.

GMRY IV DC'ED REASON  126.76
This file contains reasons why the IV infusion site was discontinued. The ADP Coordinator is allowed to enter/edit the file.

GMRY INTAKE ITEMS  126.8
This file contains NON-IV intake items such as tea, coffee, etc. The ADP Coordinator is allowed to configure the file.
GMRY NUR IV SOLUTION  126.9
This file contains names of IV solutions used for the Intake and Output application. An entry is used when no VISTA Pharmacy order is available. The ADP Coordinator is allowed to enter/edit the file entries.

GMRY NUR SHIFT/OTHER  126.95
This file contains the various site configurable parameters for the Intake and Output application.

Package Default Definition

<table>
<thead>
<tr>
<th>FILE #</th>
<th>NAME</th>
<th>UP</th>
<th>SEND</th>
<th>DATA</th>
<th>SEC.</th>
<th>COMES</th>
<th>SITE</th>
<th>RSLV</th>
<th>OVER</th>
<th>USER</th>
</tr>
</thead>
<tbody>
<tr>
<td>126</td>
<td>GMRY PATIENT I/O FILE</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>126.56</td>
<td>GMRY INPUT TYPE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>126.58</td>
<td>GMRY OUTPUT TYPE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>126.6</td>
<td>GMRY OUTPUT SUBTYPE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>126.7</td>
<td>GMRY IV SITE</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>126.72</td>
<td>GMRY IV SITE DESCRIPTION</td>
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<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>126.74</td>
<td>GMRY IV CATHETER</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>126.76</td>
<td>GMRY IV DC'ED REASON</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>126.8</td>
<td>GMRY INTAKE ITEMS</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>126.9</td>
<td>GMRY NUR IV SOLUTION</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>126.95</td>
<td>GMRY NUR SHIFT/OTHER</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>ADD</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>
Chapter 4 Exported Options

Menu Options by Name

NAME: GMRY DC REASON
TYPE: edit
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: This option allows the ADP coordinator to edit reasons for discontinuing an IV into the GMRY IV DC'ED REASON file (#126.76).
EXIT ACTION: K DIDElosed,DLAYGO
ENTRY ACTION: S (DIDElosed,DLAYGO)=126.76
DIC (DIC): GMRD(126.76),
DIC(0): AEMOL
DIE: GMRD(126.76),
DR (DIE): .01;
DESCRIPTION: This option allows the ADP coordinator to edit reasons for discontinuing an IV into the GMRY IV DC'ED REASON file (#126.76).
EXIT ACTION: K DIDEclosed,DLAYGO
ENTRY ACTION: S (DIDEclosed,DLAYGO)=126.76
DIC (DIC): GMRD(126.76),
DIC(0): AEMOL
DIE: GMRD(126.76),
DR (DIE): .01;
NAME: GMRY EDIT INTAKE
TYPE: run routine
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: This option allows the user to enter or edit patient IV and NON-IV intake records.
ENTRY ACTION: I $G(^GMRD(126.95,1,"OFF")) S XQUIT=1
ROUTINE: EN3^GMRYED0
TIMESTAMP: 55106,45597
DESCRIPTION: This option allows the user to enter or edit patient IV and NON-IV intake records.
ENTRY ACTION: I $G(^GMRD(126.95,1,"OFF")) S XQUIT=1
ROUTINE: EN3^GMRYED0
TIMESTAMP: 55106,45597
NAME: GMRY EDIT OUTPUT
TYPE: run routine
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: This option allows the user to enter or edit patient output records.
ENTRY ACTION: K GMROUT
ENTRY ACTION: I $G(^GMRD(126.95,1,"OFF")) S XQUIT=1
ROUTINE: EN2^GMRYED0
TIMESTAMP: 55105,46935
DESCRIPTION: This option allows the user to enter or edit patient output records.
ENTRY ACTION: K GMROUT
ENTRY ACTION: I $G(^GMRD(126.95,1,"OFF")) S XQUIT=1
ROUTINE: EN2^GMRYED0
TIMESTAMP: 55105,46935
NAME: GMRY FILE EDIT
MENU TEXT: Configure I/O Files (ADP Coordinator Only)
TYPE: menu
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: This menu is provided for the ADP coordinator to configure the following file entries: GMRY INPUT TYPE (#126.56), GMRY OUTPUT TYPE (#126.58), GMRY OUTPUT SUBTYPE (#126.6), GMRY IV SITE (#126.7), GMRY INTAKE ITEMS (#126.8), GMRY NUR IV SOLUTION (#126.9), GMRY NUR SHIFT/OTHER (#126.95), GMRY IV SITE DESCRIPTION (#126.72), GMRY IV CATHETER (#126.74) and GMRY IV DC'ED REASON (#126.76).
ITEM: GMRY INPUT FILE1
DISPLAY ORDER: 1
SYNONYM: 1
ITEM: GMRY OUTPUT FILE1
DISPLAY ORDER: 2
SYNONYM: 2
ITEM: GMRY OUTPUT FILE2
DISPLAY ORDER: 3
SYNONYM: 3
ITEM: GMRY INTAKE ITEMS
DISPLAY ORDER: 4
SYNONYM: 4
ITEM: GMRY IV SITE
DISPLAY ORDER: 5
SYNONYM: 5
ITEM: GMRY IV SOL
DISPLAY ORDER: 6
SYNONYM: 6
ITEM: GMRY NURSHIFT
DISPLAY ORDER: 7
SYNONYM: 7
ITEM: GMRY SITE DESCRIPT
DISPLAY ORDER: 8
SYNONYM: 8
Exported Options

ITEM: GMRY IV CATH  SYNONYM: 9
DISPLAY ORDER: 9
ITEM: GMRY DC REASON  SYNONYM: 10
DISPLAY ORDER: 10
ENTRY ACTION: I $G(^GMRD(126.95,1,"OFF")) S XQUIT=1
TIMESTAMP: 56656,39523
UPPERCASE MENU TEXT: CONFIGURE I/O FILES (ADP COORD

NAME: GMRY I/O 48HRS  MENU TEXT: Print I/O Summary (48 Hrs)
TYPE: run routine  CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: This option summarizes patient intake/output for the previous
day and today.
ROUTINE: EN5^GMRYRP0  TIMESTAMP: 55441,54683
UPPERCASE MENU TEXT: PRINT I/O SUMMARY (48 HRS)

NAME: GMRY I/O CURRENT
MENU TEXT: Print I/O Summary (Midnight to Present)
TYPE: run routine  CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: This option summarizes current patient intake/output.
ROUTINE: EN4^GMRYRP0
UPPERCASE MENU TEXT: PRINT I/O SUMMARY (MIDNIGHT TO

NAME: GMRY I/O SHIFT AND EVENT
MENU TEXT: 24 Hours Itemized Shift Report
TYPE: run routine  CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: This option produces itemized patient intake and output
reports by shift for a period of time as defined by the user.
ROUTINE: EN1^GMRYSE0
UPPERCASE MENU TEXT: 24 HOURS ITEMIZED SHIFT REPORT

NAME: GMRY I/O SUM
MENU TEXT: Print I/O Summary by Patient (by Shift & Day(s))
TYPE: run routine  CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: This option summarizes patient intake/output by major category
and shift for a period of time as defined by the user.
ROUTINE: EN1^GMRYRP0  TIMESTAMP: 55427,53365
UPPERCASE MENU TEXT: PRINT I/O SUMMARY BY PATIENT (  

NAME: GMRY INPUT FILE1  MENU TEXT: Intake Type
TYPE: edit  CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O  X ACTION PRESENT: YES
DESCRIPTION: This option is used by the ADP coordinator to configure the
NON-IV intake type entries for the GMRY INPUT TYPE file (#126.56). For
example, PO, TUBE FEEDING, and OTHER are input types.
EXIT ACTION: K DLAYGO  ENTRY ACTION: S DLAYGO=126.56
DIC (DIC): GMRD(126.56,  DIC(0): AEMQL
DIE: GMRD(126.56,  DR (DIE): .01;1
UPPERCASE MENU TEXT: INTAKE TYPE

NAME: GMRY INTAKE ITEMS  MENU TEXT: Intake Items
TYPE: edit  CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O  X ACTION PRESENT: YES
DESCRIPTION: This option allows the ADP coordinator to enter items into the
GMRY INTAKE ITEMS file (#126.8) pointed to by the GMRY PATIENT I/O FILE file
(#126).
EXIT ACTION: K DLAYGO  ENTRY ACTION: S DLAYGO=126.8
DIC (DIC): GMRD(126.8,  DIC(0): AEMQL
DIE: GMRD(126.8,  DR (DIE): .01;1;2
UPPERCASE MENU TEXT: INTAKE ITEMS
NAME: GMRY IV CARE
MENU TEXT: Start/Add/DC IV and Maintenance
TYPE: run routine
PACKAGE: GEN. MED. REC. - I/O
E ACTION PRESENT: YES
DESCRIPTION: This option contains seven protocols associated with intravenous therapy:
1. Start IV - Starts a new IV line or a heparin/saline lock/port.
2. Solution: Replace/DC/Convert/Finish Solution - DC's the current solution, then replaces a new solution to the selected IV line or converts the IV according to the user's choice.
3. Replace Same Solution - Replaces the same solution to a selected IV line.
4. DC IV/Lock/Port and Site - Removes the IV/lock/port from a selected IV site and documents tubing changes.
5. Care/Maintenance/Flush - Checks the site condition, and documents dressing, tubing changes and flushes.
6. Add Additional Solution(s) - Adds additional solution(s) to an IV line without discontinuing an existing one.
7. Restart DC’d IV - Restarts an IV which was discontinued due to infiltration or other reasons.
8. Adjust Infusion Rate - Adjusts infusion rate for a selected IV.
9. Flush - Flushes all IV line(s) for a selected infusion site.
ENTRY ACTION: I $G(^GMRD(126.95,1,"OFF")) S XQUIT=1
ROUTINE: EN1^GMRYED0
TIMESTAMP: 55441,47646

NAME: GMRY IV CATH
MENU TEXT: IV Catheter
TYPE: edit
PACKAGE: GEN. MED. REC. - I/O
E ACTION PRESENT: YES
DESCRIPTION: This option allows the ADP coordinator to enter types of IV catheters into the GMRY IV CATHETER file (#126.74).
EXIT ACTION: K DIDEL,DLAYGO
ENTRY ACTION: S (DIDEL,DLAYGO)=126.74
DIC (DIC): GMRD(126.74, DIC(0): AEMQL
DIE: GMRD(126.74, DR (DIE): .01;1

NAME: GMRY IV FLOW
MENU TEXT: Intravenous Infusion Flow Sheet
TYPE: run routine
PACKAGE: GEN. MED. REC. - I/O
E ACTION PRESENT: YES
DESCRIPTION: This option prints intravenous flow sheets by ward, room or by patient.
ROUTINE: EN1^GMRYFLW0
TIMESTAMP: 55699,43960

NAME: GMRY IV SITE
MENU TEXT: IV Site
TYPE: edit
PACKAGE: GEN. MED. REC. - I/O
E ACTION PRESENT: YES
DESCRIPTION: This option allows the ADP coordinator to enter IV sites into the GMRY IV SITE file (#126.7). This information is used to track the IV insertion site and assist with documentation of the site's status and surrounding skin integrity.
EXIT ACTION: K DIDEL,DLAYGO
ENTRY ACTION: S (DIDEL,DLAYGO)=126.7
DIC (DIC): GMRD(126.7, DIC(0): AEMQL
DIE: GMRD(126.7, DR (DIE): .01

NAME: GMRY IV SOL
MENU TEXT: IV Solution
TYPE: edit
PACKAGE: GEN. MED. REC. - I/O
E ACTION PRESENT: YES
DESCRIPTION: The ADP coordinator can enter IV solutions into the GMRY NUR
IV SOLUTION file (#126.9) through this option. The IV solutions include admixtures, hyperals, intralipids, piggybacks and blood/blood products.

EXIT ACTION: K DIDEL, DLAYGO
ENTRY ACTION: S (DIDEL, DLAYGO) = 126.9
DIC (DIC): GMRD(126.9),
DIC(0): AEMQL
DIE: GMRD(126.9),
DR (DIE): .01;1;2
UPPERCASE MENU TEXT: IV SOLUTION

NAME: GMRY NURSHIFT
MENU TEXT: Shift Starting Hour and Other Parameters
TYPE: edit
CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: The shift starting hours stored in the GMRY NUR SHIFT/OTHER file (#126.95) are used to calculate the patient's total intake/output for night, day and evening shifts, respectively. The data type for hours can be entered "0800", "1600" and "2400".

DIC (DIC): GMRD(126.95),
DIC(0): AMEQL
DIE: GMRD(126.95),
DR (DIE): 1;2;3
TIMESTAMP: 55516,49891
UPPERCASE MENU TEXT: SHIFT STARTING HOUR AND OTHER

NAME: GMRY OUTPUT FILE1
MENU TEXT: Output Type
TYPE: edit
CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O
E ACTION PRESENT: YES
X ACTION PRESENT: YES
DESCRIPTION: This option is provided for the ADP coordinator to configure the entries for the GMRY OUTPUT TYPE file (#126.58). URINE, STOOL and DRAINS, for example, are major output types.

EXIT ACTION: K DLAYGO
ENTRY ACTION: S DLAYGO = 126.58
DIC (DIC): GMRD(126.58),
DIC(0): AMEQL
DIE: GMRD(126.58),
DR (DIE): .01;1
UPPERCASE MENU TEXT: OUTPUT TYPE

NAME: GMRY OUTPUT FILE2
MENU TEXT: Output Subtype
TYPE: edit
CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O
E ACTION PRESENT: YES
X ACTION PRESENT: YES
DESCRIPTION: This option allows the ADP coordinator to enter the entries for the GMRY OUTPUT SUBTYPE file (#126.6) pointed to by the GMRY PATIENT I/O FILE file (#126). VOID, FOLEY and STRAIGHT CATH, for example, are subtypes of URINE.

EXIT ACTION: K DLAYGO
ENTRY ACTION: S DLAYGO = 126.6
DIC (DIC): GMRD(126.6),
DIC(0): AEMQL
DIE: GMRD(126.6),
DR (DIE): .01;1
UPPERCASE MENU TEXT: OUTPUT SUBTYPE

NAME: GMRY SITE DESCRP
MENU TEXT: IV Site Description
TYPE: edit
CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O
E ACTION PRESENT: YES
X ACTION PRESENT: YES
DESCRIPTION: This option allows the ADP coordinator to enter IV site descriptions into the GMRY IV SITE DESCRIPTION file (#126.72). This information is used for documenting site maintenance.

EXIT ACTION: K DLAYGO
ENTRY ACTION: S (DIDEL, DLAYGO) = 126.72
DIC (DIC): GMRD(126.72),
DIC(0): AEMQL
DIE: GMRD(126.72),
DR (DIE): .01;
UPPERCASE MENU TEXT: IV SITE DESCRIPTION

NAME: GMRYMGMR
MENU TEXT: Patient Intake/Output Menu
TYPE: menu
CREATOR: POSTMASTER
PACKAGE: GEN. MED. REC. - I/O
DESCRIPTION: This is the main menu for the Intake and Output(I&O) application. It contains options for: (1) tracking patient intake and output, (2) starting and discontinuing IV lines and fluids, (3) documenting IV care, and (4) printing various intake and output reports.
ITEM: GMRY EDIT INTAKE
SYNONYM: 1
DISPLAY ORDER: 1
ITEM: GMRY EDIT OUTPUT
DISPLAY ORDER: 2
ITEM: GMRY IV CARE
DISPLAY ORDER: 3
ITEM: GMRY I/O SUM
DISPLAY ORDER: 4
ITEM: GMRY I/O CURRENT
DISPLAY ORDER: 5
ITEM: GMRY I/O 48HRS
DISPLAY ORDER: 6
ITEM: GMRY FILE EDIT
DISPLAY ORDER: 9
ITEM: GMRY IV FLOW
DISPLAY ORDER: 8
ITEM: GMRY I/O SHIFT AND EVENT
DISPLAY ORDER: 7
TIMESTAMP: 56656,39523
TIMESTAMP OF PRIMARY MENU: 56007,50166
UPPERCASE MENU TEXT: PATIENT INTAKE/OUTPUT MENU
Exported Options
Chapter 5 Cross References

Included in this section is the information about the cross-references of the application.

GMRY PATIENT I/O FILE (126) FILE

PATIENT
  NAME: B
  DESCRIPTION: This regular cross-reference is automatically created on .01 field of the file.

INTAKE (126.01) SUB-FILE

INTAKE DATE/TIME
  NAME: B
  DESCRIPTION: This regular cross-reference is automatically created on the .01 field of the file. This index sorts the intake measurements by date/time for a patient.
  
  NAME: TYP01
  DESCRIPTION: TYP01 MUMPS cross-reference is created to delete an old intake measurement index ^GMR(126,DA(1),"IN","TYP",9999999-INTAKE DATE/TIME,INTAKE TYPE,DA) ="".

INTAKE TYPE
  NAME: TYP1
  DESCRIPTION: TYP1 MUMPS cross-reference is created to sort intake measurements by inverted INTAKE DATE/TIME and INTAKE TYPE.

OUTPUT (126.02) SUB-FILE

OUTPUT DATE/TIME
  NAME: B
  DESCRIPTION: This regular cross-reference is automatically created on the .01 field of the file. This index sorts the output measurements by date/time for a patient.
  
  NAME: TYP01
  DESCRIPTION: TYP01 MUMPS cross-reference is created to delete an old output record index ^GMR(126,DA(1),"OUT","TYP",9999999-OUTPUT DATE/TIME,OUTPUT TYPE,DA) ="".

OUTPUT TYPE
  NAME: TYP1
  DESCRIPTION: TYP1 MUMPS cross-reference is created to sort output measurements by inverted OUTPUT DATE/TIME and OUTPUT TYPE.
Cross References

IV (126.03) SUB-FILE

IV START DATE/TIME
NAME: B
DESCRIPTION: This regular cross-reference is automatically created on the .01 field of the file. This index sorts the intravenous fluids on a patient by starting date/time.

NAME: TYP01
DESCRIPTION: TYP01 MUMPS cross-reference is created to sort the intravenous fluids on a patient by the inverted IV START DATE/TIME and TYPE OF IV.

NAME: C
DESCRIPTION: C MUMPS cross-reference indexes the intravenous solutions on a patient by the inverted IV START DATE/TIME. The SET statement inserts the DUZ in the IV STARTED BY field (6).

INFUSION SITE
NAME: SITE
DESCRIPTION: SITE MUMPS cross-reference sorts the intravenous fluids on a patient by INFUSION SITE and inverted IV START DATE/TIME.

TYPE OF IV
NAME: TYP3
DESCRIPTION: TYP3 MUMPS cross-reference sorts the intravenous fluids on a patient by the inverted IV START DATE/TIME and TYPE OF IV.

IV MAINTENANCE (126.04) SUB-FILE

IV SITE
NAME: B
DESCRIPTION: This regular cross-reference is automatically created on the IV SITE field of the IV MAINTENANCE. The records are sorted by the IV's location such as LEFT HAND, RIGHT HAND and LEFT ARM, etc.

INTAKE ITEM (126.13) SUB-FILE

INTAKE ITEM
NAME: B
DESCRIPTION: This regular cross-reference is automatically created on the .01 field of the file.

NAME: VOL
DESCRIPTION: VOL MUMPS cross-reference is created to sum up the values of VOLUME field of the INTAKE ITEM multiple and insert the total in the TOTAL AMOUNT field of the INTAKE record.
IV INTAKE (126.313) SUB-FILE

IV INTAKE DATE/TIME

NAME: B
DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

NAME: C
DESCRIPTION: This MUMPS index is created to sort the intake records for an IV solution by inverted IV INTAKE DATE/TIME. The SET statement inserts DUZ in the ENTERED BY field (3).

D/T TITER ADJUSTED (126.316) SUB-FILE

D/T TITER ADJUSTED
NAME: B
DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

NAME: C
DESCRIPTION: This MUMPS index is created to sort the infusion rate adjustment record by inverting the date/time stored in the D/T TITER ADJUSTED field.

MAINTENANCE DATE/TIME (126.41) SUB-FILE

MAINTENANCE DATE/TIME
NAME: B
DESCRIPTION: This cross-reference is created automatically on the .01 field of the MAINTENANCE DATE/TIME multiple for each IV SITE.

NAME: AC
DESCRIPTION: AC MUMPS cross-reference is created to insert the DUZ of the person who gives the nursing care in the ENTERED BY field (4) of the maintenance record.

NAME: C
DESCRIPTION: C cross-reference is created to sort the nursing care records for a specific IV's location by the inverted date/time the care given.
Cross References

GMRY INPUT TYPE (126.56) FILE

-------------------------------------------------------------------------------------------------
NAME
  NAME: B
  DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

ORDER
  NAME: C
  DESCRIPTION: This regular cross-reference is created to index the file by ORDER and the associated input type NAME.

GMRY OUTPUT TYPE (126.58) FILE

-------------------------------------------------------------------------------------------------
OUTPUT TYPE
  NAME: B
  DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

ORDER
  NAME: C
  DESCRIPTION: This regular cross-reference is created to sort the file by ORDER and the associated OUTPUT TYPE.

GMRY OUTPUT SUBTYPE (126.6) FILE

-------------------------------------------------------------------------------------------------
OUTPUT SUBTYPE
  NAME: B
  DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

OUTPUT TYPE
  NAME: C
  DESCRIPTION: This regular cross-reference is created to sort the file by OUTPUT TYPE and the associated OUTPUT SUBTYPE.

GMRY IV SITE (126.7) FILE

-------------------------------------------------------------------------------------------------
IV SITE
  NAME: B
  DESCRIPTION: This regular cross-reference is automatically created on the .01 field.
GMRY IV SITE DESCRIPTION (126.72) FILE

DESCRIPTION

NAME: B
DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

GMRY IV CATHETER (126.74) FILE

IV CATHETER TYPE/SIZE

NAME: B
DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

PORT (126.741) SUB-FILE

PORT

NAME: B
DESCRIPTION: This cross-reference is automatically created on the .01 field of the PORT multiple.

GMRY IV DC'ED REASON (126.76) FILE

NAME

NAME: B
DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

GMRY INTAKE ITEMS (126.8) FILE

NAME

NAME: B
DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

NAME: BL
DESCRIPTION: This MUMPS cross-reference is created to index the file by lower case NAME.
Cross References

INPUT TYPE (126.82) SUB-FILE

INPUT TYPE
    NAME: B
    DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

    NAME: C
    DESCRIPTION: C MUMPS cross-reference is created to index the GMRY INTAKE ITEMS file by the INPUT TYPE field (2) and the associated intake item NAME (.01).

GMRY NUR IV SOLUTION (126.9) FILE

NAME
    NAME: B
    DESCRIPTION: This regular cross-reference is automatically created on the .01 field.

TYPE
    NAME: C
    DESCRIPTION: This regular cross-reference is created to sort the file by TYPE field and the associated IV solution NAME.

GMRY NUR SHIFT/OTHER (126.95) FILE

NAME
    NAME: B
    DESCRIPTION: This regular cross-reference is automatically created on the .01 field.
Chapter 6 Archiving and Purging

It is anticipated that the implementation of this application will be minimal due to the lack of point of care (POC) entry devices at the medical centers. The archiving of data will be addressed in a future version of the software.
Chapter 7 Callable Routines

There are no callable routines in Version 4.0 of the Intake and Output software.
Chapter 8 External Relations

1. The following VISTA applications must reside in the system before Intake and Output, Version 4.0 can be installed:
   
a. Kernel Version 8.0 or greater,
b. VA FileMan Version 21 or greater,
c. PIMS (MAS) Version 5.3 or greater.

2. If the facility intends to utilize the patient IV orders found in the VISTA Pharmacy application, then Version 4.5 (or greater) of the Inpatient Medications application must reside in the system.

3. Existing integration agreements between the Intake and Output software and other VISTA applications are summarized below.

DBIA's where the Intake and Output package is the subscriber:

```
1380   NAME: ROOM-BED
CUSTODIAL PACKAGE: REGISTRATION                   Albany
SUBSCRIBING PACKAGE: INTAKE/OUTPUT                  Chicago
          USAGE: Controlled Subsci APPROVED: APPROVED
          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:

*********************
```

```
1409   NAME: NURS LOCATION
CUSTODIAL PACKAGE: NURSING SERVICE                Chicago
SUBSCRIBING PACKAGE: INTAKE/OUTPUT                  Chicago
          USAGE: Private         APPROVED: APPROVED
          STATUS: Active      EXPIRES: 
          DURATION: Till Otherwise Agr  VERSION:
          FILE: 211.4    ROOT: NURSF(211.4, 
          DESCRIPTION:                        TYPE: File
Intake/Output can access the Nurs Location (211.4) file entry as described
in this DBIA.
^NURSF(211.4, D0, 
.01   NAME    0;1       Direct Global Read
1   PATIENT CARE FLAG  1;1       Direct Global Read
Direct global read of "NURSF(211.4) is supported to check if the file
exists.
Direct global read of the "D" cross-reference of the NURS Location
(211.4) file is supported.
^NURSF(211.4, D0, 3, D1, 
.01   MAS WARD    0;1       Direct Global Read
Direct global read of ^NURSF(211.4, D0, 3, D1) to $Order through the
```
multiple is supported.

ROUTINE:

********************

1410   NAME: NURS POSITION CONTROL
CUSTODIAL PACKAGE: NURSING SERVICE            Chicago
SUBSCRIBING PACKAGE: INTAKE/OUTPUT             Chicago
USAGE: Private  APPROVED: APPROVED
STATUS: Active  EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE: 211.8  ROOT: NURSF(211.8,
DESCRIPTION: TYPE: File
Intake/Output has permission to access the NURS Position Control (211.8)
file as indicated in this DBIA.
\^NURSF(211.8,D0,
..02  SERVICE CATEGORY  0;2  Direct Global Read
Also direct global read access of the "D" cross-reference of file
211.8 is supported.

ROUTINE:

********************

1411   NAME: NURS PATIENT
CUSTODIAL PACKAGE: NURSING SERVICE            Chicago
SUBSCRIBING PACKAGE: INTAKE/OUTPUT             Chicago
USAGE: Private  APPROVED: APPROVED
STATUS: Active  EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE: 214  ROOT: NURSF(214,
DESCRIPTION: TYPE: File
Intake/Output can access the NURS Patient (214) file as described in this
DBIA.
\^NURSF(214,D0,
2  NURS LOCATION  0;3  Direct Global Read
Direct global read of the "AF" and "E" cross-references of the NURS
Patient (214) file is supported.
Direct global read of the ^NURSF(214,D0,0) node is also supported.

ROUTINE:

********************

1957   NAME: File Security Codes
CUSTODIAL PACKAGE: VA FILEMAN                 San Francisco
SUBSCRIBING PACKAGE: NURSING SERVICE            Chicago
GMRY GEN. MED. REC           Chicago
GEN. MED. REC. - V           Chicago
TEXT GENERATOR               Chicago
USAGE: Private  APPROVED: APPROVED
STATUS: Active  EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE: 1  ROOT: DIC
DESCRIPTION: TYPE: File
(Vitals/Measurements), Nursing Service and Text Generator packages have
permission to set the security nodes (i.e., "DD", "RD", "DEL", "LAYGO",
and "WR") in FILE 1 for those files within the package's number range.
For example: S \^DIC(210,0,"DD")="@"

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

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

1390  NAME: GMRY PATIENT I/O FILE  
CUSTODIAL PACKAGE: INTAKE/OUTPUT  Chicago  
SUBSCRIBING PACKAGE: NURSING SERVICE  Chicago  
USAGE: Private  APPROVED: APPROVED  
STATUS: Active  EXPIRES:  
DURATION: Till Otherwise Agr  VERSION:  
FILE: 126  ROOT: GMR(126,  
DESCRIPTION:  TYPE: File  
Nursing has permission to access the GMRY Patient I/O File (126) file  
fields described in this DBIA.  
^GMR(126,D0,  
Direct global read on "B" cross-reference of GMRY Patient I/O File is  
supported.  
LAVIGO is allowed to this file using a ^DIC lookup.  
^GMR(126,D0,'IVM',D1,  
Direct global reference on the "B" cross-reference of the IV  
Maintenance sub-file is supported.  
^GMR(126,D0,'IVM',D1,1,D2,  
.01 MAINTENANCE DATE/TIM 0;1 Direct Global Read  
1 SITE DESCRIPTION 0;2 Direct Global Read  
2 TUBING CHANGED 0;3 Direct Global Read  
3 DRESSING CHANGED 0;4 Direct Global Read  
4 ENTERED BY 0;5 Direct Global Read  
5 SITE DC'ED 0;6 Direct Global Read  
Direct global reads of the "B" and "C" cross-references of the  
Maintenance sub-file are also supported.  
^GMR(126,0)  
Direct global read to test for existence of the file is supported.  
ROUTINE:  

**********************

1391  NAME: GMRY NUR SHIFT/OTHER  
CUSTODIAL PACKAGE: INTAKE/OUTPUT  Chicago  
SUBSCRIBING PACKAGE: NURSING SERVICE  Chicago  
USAGE: Private  APPROVED: APPROVED  
STATUS: Active  EXPIRES:  
DURATION: Till Otherwise Agr  VERSION:  
FILE: 126.95  ROOT: GMRD(126.95,  
DESCRIPTION:  TYPE: File  
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: INTAKE/OUTPUT  Chicago  
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT  Chicago  
USAGE: Private  APPROVED: APPROVED  
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:  

**********************
External Relations

1393     NAME: GMRY OUTPUT TYPE
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT Chicago
USAGE: Private APPROVED: APPROVED
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.

ROUTINE:

**************************

1395     NAME: GMRYED1
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine

Nursing has permission to access the entry points described in this DBIA for the GMRYED1 routine.

ROUTINE: GMRYED1
COMPONENT: INPUT
VARIABLES: DFN Input
GNUROP Input
GMRHLOC Input
GMROUT Both

Allows user to enter/edit patient intake.

COMPONENT: OUTPUT
VARIABLES: DFN Input
GNUROP Input
GMRHLOC Input
GMROUT Both

Allows user to enter/edit patient Output.

**************************

1396     NAME: GMRYRP0
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine

Nursing has permission to access the following entry points in the GMRYRP0 routine.

ROUTINE: GMRYRP0
COMPONENT: EN1
VARIABLES: GMRNUR Input

This variable is set to one to indicate that this routine was called from an external package.

This entry point prints an I/O Summary by Patient (by Shift
COMPONENT: EN4
VARIABLES: GMRNUR Input
This variable is set to one to indicate that this routine was called from an external package.
This entry point prints an I/O Summary (Midnight to Present).

COMPONENT: EN5
VARIABLES: GMRNUR Input
This variable is set to one to indicate that this routine was called from an external package.
This entry point prints an I/O Summary (48 hours).

COMPONENT: EN2
VARIABLES: GMRNUR Input
This variable is set to one to indicate that this routine was called from an external package.
This entry point prints the Patient I/O Summary Report for the previous day.

COMPONENT: Q
VARIABLES:  This entry point cleans up variables used by GMRYRP0 calls.

*****************************

1397  NAME: GMRYED3
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
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 GMRYED3 routine.

ROUTINE: GMRYED3
COMPONENT: LIST
VARIABLES: DFN Input Patient IEN.
GNUROP Input Type of Input/Output/IV.
GMRHLOC Input Hospital Location file (44) pointer.
GMROUT Both
This variable indicates whether the user abnormally exited the input process. It is passed in with a value of 0.
This entry point allows user to start/add/DC IV and maintenance.

*****************************

1415  NAME: GMRYFLW0
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: TYPE: Routine
Nursing has permission to access the following entry point in the GMRYFLW0 routine.

ROUTINE: GMRYFLW0
COMPONENT: EN1
VARIABLES: GMRNUR Input
This variable is passed in with a value of 1 to indicate that the report is requested by the Nursing service.
This entry point allows user to print the Intravenous Infusion Flow Sheet for a selected time range.

*****************************
External Relations

1430     NAME: GMRYRP1
CUSTODIAL PACKAGE: INTAKE/OUTPUT    Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE  Chicago
VITALS/MEASUREMENT    Chicago
USAGE: Private    APPROVED: APPROVED
STATUS: Active    EXPIRES:
DURATION: Till Otherwise Agr    VERSION:
FILE:
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
GLASTDT Output
Date/time the current nursing shift ends.
GDTSTRT Output
Date the nursing shift starts.
GNXTDT Output
Date the day after the date stored in GDTSTRT.
GMRNIT Output
Date 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:
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: INTAKE/OUTPUT    Chicago
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT  Chicago
USAGE: Private    APPROVED: APPROVED
STATUS: Active    EXPIRES:
DURATION: Till Otherwise Agr    VERSION:
FILE:
DESCRIPTION: TYPE: Routine
Vitals/Measurements can access the GMRYUT0 routine as described in this DBIA.
ROUTINE: GMRYUT0
COMPONENT: PT
VARIABLES: DFN Input Patient IEN.
          GMRAGE Output Age of patient.
          GMRBED Output Room-bed for patient.
          GMRSEX Output Patient sex.
          GMRVADM Output Patient admission date.
          GMRWARD Output Pointer to Ward Location (42) file denoting patient’s location.
          GMRWARD(1) Output Free text of patient's location.

This entry is used to call VADPT to set up VAIN and VADM local variables.

*********************

1433 NAME: GMRYUT2
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES: 
DURATION: Till Otherwise Agr VERSION: 
FILE: ROOT: 
DESCRIPTION: TYPE: Routine
Nursing can access the following entry point in the GMRYUT2 routine.

ROUTINE: GMRYUT2
COMPONENT: SELSITE
VARIABLES: DFN Input Patient IEN.
          GMRX Output Local global containing the intravenous infusion site information.

This entry point is called to extract all current intravenous infusion sites and the sites discontinued within the last 24 hours for the selected patient.

*********************

1434 NAME: GMRYUT9
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: VITALS/MEASUREMENT Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES: 
DURATION: Till Otherwise Agr VERSION: 
FILE: ROOT: 
DESCRIPTION: TYPE: Routine
Vitals/Measurements can access the GMRYUT9 routine as described in this DBIA.

ROUTINE: GMRYUT9
COMPONENT: PATIENT
VARIABLES: DFN Input Patient IEN.
          GMRNUR Input This is set to 1 to indicate return data from Nurs Patient file.
          SSN Output Patient SSN.
          GMRAGE Output Patient's age.
          GMRSEX Output Patient's sex.
          GMRBED Output Patient's room-bed.
          GMRVADM Output Patient's admission date/time.
          GMRWARD Output
External Relations

Pointer to Ward Location (42) file denoting patient’s location.

GMRWARD(1) Output
Free text version of patient location.
This entry point extracts information from Nurs Patient (214) file.

*************************
1435 NAME: GMRYRP2
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
VITALS/MEASUREMENT Usage: Private APPROVED: APPROVED
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.
GSHIFT Output
Value = "SH-1" night shift,
= "SH-2" day shift,
= "SH-3" evening shift.
This entry is called to assign the nursing shift (night,
day or evening) according to the date/time the I/O data was
entered.

COMPONENT: GMRYRP2
VARIABLES: DFN Input
Patient IEN.
GMRESTRT Input Start date for the information extract.

GMRFIN Input End date for the information extract.

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

**************************

1436 NAME: GMRYRP3
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
VITALS/MEASUREMENT Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: ROOT:
DESCRIPTION: Routine
Nursing and Vitals/Measurements can access the following entry point in the routine GMRYRP3.

ROUTINE: GMRYRP3
COMPONENT: REPORT1
VARIABLES: GRPT Input
            Type of intake/output report. Set GRPT = 10 for the Nursing End of Shift Report. Set GRPT = 5 for the V/M Graphic Reports.
            GQ Input
            Passed in with a value of 0, required by the GMRYRP3 routine.
            GQT Input
            Passed in with a value of 0, required by the GMRYRP3 routine.
            GMROUT Both
            This variable indicates whether the user abnormally exited the process. It is passed in with a value of 0.
            TMP Both
            ^TMP($J,"GMRY") contains the intake, output and intravenous infusion data for a patient. If the data is requested by the Vitals/Measurements, ^TMP($J,"GMR") is also used to store the aggregated information.

GTOTLI Output Intake grand total.
GTOTLO Output Output grand total.
GN(1) Output Number of intake types listed in the GMRY Input Type file (126.56).
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.

**************************

1437 NAME: GMRYSE0
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
Nursing can access the following entry point in the GMRYSE0 routine.

ROUTINE: GMRYSE0
COMPONENT: EN1
VARIABLES: GMRNUR Input

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

This entry point allows user to print the Patient Intake/Output 24 Hours Itemized Shift Report for a time range.

Nursing can access the following entry point in the GMRYSE3 routine.

ROUTINE: GMRYSE3
COMPONENT: FITLINE
VARIABLES: GMRLEN Input

GTXT(0) Output

The first n-words of the input text in the GTXT(1) that will fit in length GMRLEN.

GTXT(1) Both

The rest of the text.

This utility breaks a line of text into lines. The length of the new line is defined by user.

Nursing has permission to access the following field in the GMRY IV DC'ed Reason (126.76) file.

ROUTINE:

Nursing has permission to access the following fields in the GMRY Output Subtype (126.6) file.

Also Nursing is allowed to 
LAYGO entries into the file 
using FileMan.

ROUTINE:

**********************

1460  NAME:  GMRY INTAKE ITEMS
CUSTODIAL PACKAGE: INTAKE/OUTPUT  Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE  Chicago
USAGE: Private  APPROVED: APPROVED
STATUS: Active  EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE: 126.8  ROOT: GMRD(126.8,
DESCRIPTION: TYPE: File
Nursing has permission to access the following fields in the GMRY Intake Items (126.8) file.
^GMRD(126.8,D0,0)
.01  NAME  0;1  Both R/W w/Fileman
Also Nursing is allowed to 
LAYGO entries into the file 
using FileMan.
1  VOLUME  0;2  Both R/W w/Fileman
2  INPUT TYPE  1;0  Both R/W w/Fileman
Also Nursing is allowed to 
LAYGO into multiple using 
FileMan.

ROUTINE:

**********************

1461  NAME:  GMRY IV SITE
CUSTODIAL PACKAGE: INTAKE/OUTPUT  Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE  Chicago
USAGE: Private  APPROVED: APPROVED
STATUS: Active  EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE: 126.7  ROOT: GMRD(126.7,
DESCRIPTION: TYPE: File
Nursing has permission to access the following field in the GMRY IV Site (126.7) file.
^GMRD(126.7,D0,0)
.01  IV SITE  0;1  Both R/W w/Fileman
Also Nursing is allowed to 
LAYGO entries into the file 
using FileMan.

ROUTINE:

**********************

1462  NAME:  GMRY NUR IV SOLUTION
CUSTODIAL PACKAGE: INTAKE/OUTPUT  Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE  Chicago
USAGE: Private  APPROVED: APPROVED
STATUS: Active  EXPIRES:
DURATION: Till Otherwise Agr  VERSION:
FILE: 126.9  ROOT: GMRD(126.9,
DESCRIPTION: TYPE: File
Nursing has permission to access the following fields in the GMRY NUR IV Solution (126.9) file.
^GMRD(126.9,D0,0)
.01  NAME  0;1  Both R/W w/Fileman
Also Nursing is allowed to 
LAYGO entries into the file 
using FileMan.
1  TYPE  0;2  Both R/W w/Fileman
2  VOLUME  0;3  Both R/W w/Fileman

ROUTINE:
1463  NAME: GMRY INPUT TYPE
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 126.56 ROOT: GMRD(126.56,
DESCRIPTION: TYPE: File
Nursing has permission to access the following fields in the GMRY Input Type (126.56) file.
\^GMRD(126.56,D0,0)
.01  NAME 0;1 Both R/W w/Fileman
Also Nursing is allowed to
LAYGO entries into the file
using FileMan.
1  ORDER 0;2 Both R/W w/Fileman

ROUTINE:

1464  NAME: GMRY IV SITE DESCRIPTION
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 126.72 ROOT: GMRD(126.72,
DESCRIPTION: TYPE: File
Nursing has permission to access the following field in the GMRY IV Site Description (126.72) file.
^GMRD(126.72,D0,0)
.01  DESCRIPTION 0;1 Both R/W w/Fileman
Also Nursing is allowed to
LAYGO entries into the file
using FileMan.

ROUTINE:

1465  NAME: GMRY IV CATHETER
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 126.74 ROOT: GMRD(126.74,
DESCRIPTION: TYPE: File
Nursing has permission to access the following field in the GMRY IV Catheter (126.74) file.
^GMRD(126.74,D0,0)
.01  IV CATHETER TYPE/SIZ 0;1 Both R/W w/Fileman
Also Nursing is allowed to
LAYGO entries into the file
using FileMan.

ROUTINE:

1466  NAME: GMRY OUTPUT TYPE
CUSTODIAL PACKAGE: INTAKE/OUTPUT Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED: APPROVED
STATUS: Active EXPIRES:
DURATION: Till Otherwise Agr VERSION:
FILE: 126.58 ROOT: GMRD(126.58,
DESCRIPTION: TYPE: File
Nursing has permission to access the following fields in the GMRY Output Type (126.58) file.
^GMRD(126.58,D0,0)
.01 OUTPUT TYPE 0;1 Both R/W w/Fileman
Also Nursing is allowed to
LAYGO entries into the file
using FileMan.

1 ORDER 0;2 Both R/W w/Fileman

ROUTINE:

******************************

1964 NAME: GMRYCATH
CUSTODIAL PACKAGE: GMRY GEN. MED. REC Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED:
STATUS: expires:
DURATION: Till Otherwise Agr VERSION:
DESCRIPTION: TYPE: Routine
The Nursing Service package has permission to call the GMRYCATH routine in
order to display or print its End of Shift report.

ROUTINE: GMRYCATH
COMPONENT: FINDCA
VARIABLES: GSITE Input
This is an array containing IV infusion location (e.g., LEFT WRIST). The NURCES2
routine passes the parameter GSITE by reference. For example:

GSITE=LEFT WRIST

II Output
The variable II is a single dimension array. It is the formal parameter
associated with GSITE. Each subscripted element contains the value of the IV
CATHETER TYPE/SIZE field from the GMRY PATIENT I/O FILE (#126) for a patient. It
returns the name of the IV catheter for a given IV infusion location and patient.
For example:

GSITE("LEFT WRIST")=TRIPLE LUMEN

DFN Input
The calling routine must have DFN
defined.

This entry point finds a catheter for a selected IV site.

******************************

1965 NAME: GMRYMNT
CUSTODIAL PACKAGE: GMRY GEN. MED. REC Chicago
SUBSCRIBING PACKAGE: NURSING SERVICE Chicago
USAGE: Private APPROVED APPROVED
STATUS: Active expires:
DURATION: Till Otherwise Agr VERSION:
DESCRIPTION: TYPE: Routine
The Nursing Service package has permission to call the GMRYMNT routine in
order to display or print its End of Shift report.

ROUTINE: GMRYMNT
COMPONENT: SELSITE
VARIABLES: DFN Input
The calling routine must have DFN
defined.

GMRXY Output
Contains all current and discontinued IV
sites used within the last 24 hours.
This entry point extracts all current and discontinued IV
sites used within the last 24 hours.
Chapter 9 Internal Relations

There are no internal relations in the Intake and Output application. Each of the options can be independently invoked.
Chapter 10 Package-wide Variable

No package-wide variables are used in the Intake and Output application.
Package-wide Variable
Chapter 11 On-line Documentation

The Intake and Output software is found in the GMRY namespace (i.e., all routines, options, and file names begin with GMRY). File numbers are in the range of 126 to 126.95 in the ^GMR and ^GMRD globals.

The list of all exported files and their data dictionaries can be produced by using the VA FileMan Data Dictionary Utility option, List File Attributes. File relationships can be diagrammed by using the VA FileMan Data Dictionary Utility option, Map Pointer Relationships.

Menu diagrams may be generated through the Menu Manager option, Menu Diagrams. If detailed documentation is required on the application's options, it can be printed through the Menu Manager option, Print Option File.

The XINDEX routine prints a cross-reference listing of all local and global variable usage as well as other information of invaluable assistance in debugging.

Throughout the application, on-line documentation is also provided at each user prompt. If you are unsure of what is being asked or how to reply during your dialogue with the computer, simply enter one or two question marks (?) or ??) for help. The computer will respond with an explanation and then repeat the prompt.
Chapter 12 SAC Exemptions

There are no SAC Exemptions associated with the Intake and Output package.
Chapter 13 Software Product Security


   No additional security measures are to be applied other than those implemented through Menu Manager and the package routines.

   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.

2. Security Features:

   a. Mail groups and alerts.

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

   b. Remote systems.

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

   c. Archiving/Purging.

      The application does not include capabilities for archiving and/or purging.

   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 Information Security Officers (ISO's) to view.

h. Security Keys.

There are no Security Keys in this application.

i. File Security.

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j. References.

There are no special reference materials for this package.


There are no special official policies for this package.
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.

Administration Schedule   This is a common abbreviation for a schedule. A schedule is the frequency for which an action is to take place, such as every eight hours (Q8H) or every other day (QOD).

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, (i.e., disk, CD-Rom and magnetic tape), and deleting the information from active storage in order to free-up disk space on the system.

Audit Trail/Logging Features   The use of automated software procedures to determine if the security controls implemented for protection of computer systems are being circumvented and to identify the potential source of the security breach.

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.

Baud Rate   The rate at which data is being transmitted or received from a computer. The baud rate is equivalent to the number of characters per second times 10.

Block   The unit of storage transferred to and from disk drives, typically 512, 1024, or 2048 bytes (characters).

Boot   The process of starting up the computer.

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

Byte   A unit of computer space usually equivalent to one character.
Glossary

CIOFO  Chief Information Office Field Office, formerly known as Information Resource Management Field Office, and Information Systems Center.

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.

CORE  A collection of VA developed programs (specific to PIMS, Pharmacy Service, and Laboratory Service) which is run at VA Medical Centers.

CPU  Central Processing Unit, the heart of a computer system.

CRT  Cathode Ray Tube, similar to a TV monitor but used in computer systems for viewing data. Also called a Video Display Terminal (VDT).

Cursor  A visual position indicator (e.g., blinking rectangle or an underline) on a CRT that moves along with each character as it is entered from the keyboard.

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).

Disk  A magnetic storage device used to hold information.

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

Field  A data element in a file. For example, PATIENT is a field in the GMRY Patient I/O File.

File  The M construct in which data is stored for retrieval at a later time. A computer record of related information (e.g., GMRY Patient I/O File, Patient file).

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.

Focus Group  Previously referred to as the Expert Panel, or SIUG (Special Interest User Group). A committee which advises programmers about the development of a particular system/package.

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

GMRV  This signifies the namespace assigned to the Vitals/Measurements application.
GMRY  This signifies the namespace assigned to the Intake and Output application.

Hardware  The physical or mechanical components of a computer system such as CPU, CRT, disk drives, etc.

I&O  Intake and output.

Intake/Output Type  The type denotes a category from where the intake or output is derived, i.e., oral, intravenous, etc.


IV  Intravenously; by intravenous injection.

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.

Kilobyte  More commonly known as Kbyte or "K". A measure of storage capacity equivalent to 1024 characters.

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.

Megabyte  A measure of storage capacity; approximately 1 million characters. Abbreviated as Mbyte or Meg.

Memory  A storage area used by the computer to hold information.

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

Menu Manager  A part of the Kernel that allows each site to manage the various options or functions available to individual users.

ML  Milliliters; a unit of volume used in the Intake and Output application.
Glossary

Modem  An electronic device which converts computer signals to enable transmission through a telephone.

Namespace  A naming convention followed in the VA to identify various applications and to avoid duplication. It is used as a prefix for all routines and globals used by the application. The Intake and Output Package uses GMRY as its namespace.

Operating System  The innermost layer of software that communicates with the hardware. It controls the overall operation of the computer such as assigning places in memory, processing input and output. One of its primary functions is interpreting M computer programs into language the system can understand.

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 GMRVMGR 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.

PO  Per orum; refers to an item consumed orally or through the mouth.

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.

Port  An outlet in the back of the computer into which terminals can be connected.

Printer  A device for printing (on paper) data which is processed by a computer system.

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.
Glossary

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.

Response Time  The average amount of time the user must wait between the time the user responded to a question at the terminal and the time the system responds by displaying data and/or the next question.

Restart/Recovery Procedures  The actions necessary to restore a system's data files and computational capability after a system failure or penetration.

<RET>  Carriage return.

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

Risk Analysis  An analysis of system assets and vulnerabilities to establish an expected loss from certain events based on estimated probabilities of the occurrence of such events.

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

Security System  A part of Kernel that controls user access to the various computer applications. When a user signs-on, the security system determines the privileges of the user, assigns security keys, tracks usage, and controls the menus or options the user may access. It operates in conjunction with MenuMan.

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. Generally, this refers to an operating system that enables user programs to run.

Subroutine  A part of a program which performs a single function.

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.

Telecommunications  Any transmission, emission, or reception of signs, signals, writing, images, sounds or other information by wire, radio, visual, or any electromagnetic system.

Terminal  A device used to send and receive data from a computer system (i.e., keyboard and CRT, or printer with a keyboard).
Glossary

UCI  User Class Identifier. The major delimiter of information structure within the operating system.

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.

VDT  Video Display Terminal. Also called a Cathode Ray Tube (CRT).

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.