

Department of Veterans Affairs
Decentralized Hospital Computer Program

Health Summary

Technical Manual

Version 2.7

November 1995

IRM Field Office
Salt Lake City, Utah

Preface

The Health Summary package integrates clinical data from DHCP ancillary packages into patient health summaries which can be viewed online or printed as reports. Version 2.7 includes several new components and features, including Patient Care Encounter (PCE) components.

This manual is intended to be used as a technical reference guide for IRM Service, ADPACs, and Clinical Coordinators.

Preface

Table Of Contents

INTRODUCTION TO HEALTH SUMMARY	1
Definition of a Health Summary	1
Packages Providing Data	1
Components and Types.....	1
Printing Health Summaries	2
PDX Transmission of Health Summaries.....	2
HEALTH SUMMARY IMPLEMENTATION & MAINTENANCE	3
Set Up Site Parameters.....	5
Ad Hoc Health Summaries.....	7
OE/RR Interface.....	7
Relationship to Integrated Billing's Encounter Form Utilities	8
Nightly Batch Processing.....	8
Health Summary Components Headers and Abbreviations	9
Customized Health Summary Types.....	11
Customizing the Ad Hoc Health Summary Type.....	12
ROUTINE DESCRIPTIONS	15
FILES AND GLOBALS LIST	19
EXPORTED MENUS, OPTIONS, AND FUNCTION	21
CROSS-REFERENCES	25
PURGING AND ARCHIVING	27
CALLABLE ROUTINES	29
EXTERNAL RELATIONS	33
Database Integration Agreements.....	35
INTERNAL RELATIONS	39
KEY AND PACKAGE-WIDE VARIABLES	41
GENERATING ONLINE DOCUMENTATION	45
Routines	45
Globals.....	46
%INDEX.....	46

Table of Contents

? , ??, and ??? Online Help.....46

GLOSSARY 47

APPENDIX A—DEFINING NEW COMPONENTS51

APPENDIX B—CHECKSUM ROUTINES 61

APPENDIX C—RELEASE NOTES 63

 New components63

 New Features63

 Changes to Files.....66

 New fields66

 Fields deleted66

 Fields Modified.....66

APPENDIX D—HEALTH SUMMARY SECURITY 67

 Menu Access.....67

 Security68

 Health Summary Type File68

 Health Summary Component File.....69

 VA FileMan File Protection.....69

INDEX71

Introduction to Health Summary

Definition of a Health Summary

A health summary is a user-customized, clinical summary report consisting of patient information *components*. Each component presents the most currently available summary data from one of the ancillary packages listed below, for a given patient, with optional limits by time, number of occurrences, and selection items. These summaries can be viewed online or printed.

Packages Providing Data

Allergy Tracking System	Outpatient Pharmacy
Automated Medical Information Exchange (AMIE)	Patient Care Encounter (PCE)
Dietetics	Patient Information Management System (PIMS)
Discharge Summary	PIMS Scheduling
Inpatient Medications	Problem List
Laboratory	Progress Notes
Medicine	Radiology
Mental Health	Social Work
Nursing (Vital Signs)	Surgery
Order Entry/Results Reporting (OE/RR)	

Components and Types

Components and their behavior are specified by records in the Health Summary Component file (142.1). When a “permanent” Health Summary is created, its *type*, as defined by the owner/creator, is saved in the Health Summary Type file (142).

Definitions

<i>Component</i>	Summarized patient data extracted from various DHCP software packages.
<i>Type</i>	A structure or template containing defined components and unique characteristics.

Printing Health Summaries

Permanent or pre-defined health summaries may be run or printed for a single patient or all patients at a given hospital location (Patient Health Summary and Hospital Location Health Summary options). If a *clinic or operating room location* is selected (instead of a ward) in the Hospital Location Health Summary option, the user will be prompted to enter a beginning and ending visit or surgery date. Only those patients with visits or surgeries scheduled for the specified date will have health summaries generated.

PDX Transmission of Health Summaries

Health Summaries (except components with selection items or unique local components) can be transmitted by PDX—Patient Data Exchange—which transfers patient data between VA facilities using the MailMan electronic mail utility. See PDX V. 1.5 documentation for more information.

Health Summary Implementation & Maintenance

The Health Summary Maintenance Menu contains the following options for implementing and maintaining Health Summary.

Option	Description
<i>Disable/Enable Health Summary Component</i>	Selectively enable or disable Health Summary Components. A disable action may be identified as either temporary or permanent. When a component is temporarily disabled, an "OUT OF ORDER MESSAGE" may be entered and displayed with the component. When permanently disabled, the component is not displayed.
<i>Create/Modify Health Summary Components</i>	Create/modify new Health Summary components, either by duplication and renaming of existing components or by entering all appropriate fields for a component created on-site.
<i>Edit Ad Hoc Health Summary Type</i>	Enter/edit a component's default parameters (Time and Occurrence limits, Selection Items, Hospital Location Displayed, ICD Text Displayed, Provider Narrative Displayed, Header names, and whether to print component headers if no data is available), or delete components of the Ad Hoc Health Summary Type.
<i>Rebuild Ad Hoc Health Summary Type</i>	Reloads the Ad Hoc Health Summary Type with ALL (previously defined) components, including any defined by the site, and, optionally, all DISABLED components sequenced alphabetically by name. Disabled components will not be displayed, but when they are re-enabled will automatically show up in the Ad Hoc Health Summary if they are included in the rebuild.

<p><i>Resequence a Health Summary Type</i></p>	<p>Resequence the components of a given Health Summary Type from 5, in increments of 5 (e.g., 5, 10, 15, 20,...,5<i>n</i> where <i>n</i> is the total number of components).</p>
<p>Option</p>	<p>Description</p>
<p><i>Create/Modify Health Summary Type</i></p>	<p>Create a new or modify an existing health summary type. New types created by this option automatically define the type's owner as the creator, unless the creator holds the GMTSMGR security key. If the creator has this key, the GMTSMGR holder may designate anyone as the owner.</p>
<p><i>Edit Health Summary Site Parameters</i></p>	<p>Edit four Health Summary parameters to local specifications:</p> <ol style="list-style-type: none"> 1) PROMPT FOR ACTION PROFILE; editing this parameter to YES allows users to be prompted for printing a patient's Outpatient Pharmacy Action Profile in tandem with a health summary. 2) INCLUDE BAR CODE ON ACTION PROFILES; editing this parameter to YES allows bar codes to be printed with Action Profiles. 3) INCLUDE COMMENTS ON LABS; editing this parameter to YES causes comments to be printed in the Chemistry and Hematology, the Lab Test Selected, and the Lab Cumulative components. 4) SPOOL DEVICE; specify spool device name to which Health Summary output can be directed during a PDX request.

Set Up Site Parameters

Use the Edit Health Summary Site Parameters option in the Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU] to review and set up the site parameters. These parameters allow users to:

- Print an Outpatient Pharmacy Action Profile in tandem with a Health Summary.
- Print bar codes when Action Profiles are printed.
- Present Lab comments at display indicating comments are available for the Lab Chemistry and Hematology, the Lab Cumulative Selected, and the Lab Tests Selected components, or present the !! symbol to indicate comments are available for the Chemistry and Hematology and Lab Tests Selected components.
- Specify a spool device where PDX requests will be stored .

See example on next page.

Example

```

Select Health Summary Maintenance Menu Option:      7  Edit Health Summary Site
Parameters
Select HEALTH SUMMARY PARAMETERS:      ?
ANSWER WITH HEALTH SUMMARY PARAMETERS NAME:
HOSPITAL

        YOU MAY ENTER A NEW HEALTH SUMMARY PARAMETERS, IF YOU WISH
        NAME MUST BE HOSPITAL
Select HEALTH SUMMARY PARAMETERS:      HOSPITAL
PROMPT FOR ACTION PROFILE: YES//      ??
If this parameter is set to Y or YES, the user will be prompted to
include the Outpatient Pharmacy Action Profile when printing Health
Summaries by location (both interactive and batch mode)      and by patient .
CHOOSE FROM:
        Y      yes
        N      no
PROMPT FOR ACTION PROFILE: YES//      Y  YES
INCLUDE BAR CODES ON ACTION PROFILES:      ?
Enter YES to include bar codes when Action Profiles are printed by
Health Summary
Choose from:
        Y      yes
        N      no
INCLUDE BAR CODES ON ACTION PROFILES: YES//      <RET>  YES
INCLUDE COMMENTS FOR LABS: YES//      ??
If this parameter is set to Y or YES, the Chemistry & Hematology , the
Lab Tests Selected, and the Lab Cumulative Selected components will
present comments for results. For the Chemistry & Hematology and the
Lab Tests Selected components, the comments will be displayed
immediately following the results. For the Lab Cumulative Selected
components, a lower-case letter will be displayed to the left of the
date for entries with comments. Comments will be displayed after all
the results are displayed , with the comments linked by the lower-case
letter. Up to 26 comments can be included.

If blank, N or NO, the Chemistry & Hematology and the Lab Tests
component s will present the symbol "!!" next to tests which include
comments, and a footnote referring the user to the Lab Interim      Report .
CHOOSE FROM:
        Y      yes
        N      no
INCLUDE COMMENTS FOR LABS: YES//      <RET>  YES
SPOOL DEVICE: SPOOL//      ??
This is the SPOOL DEVICE to which Health Summary output can be directed
during a PDX request for one or more Health Summary components.
Choose from:
        SPOOL      SPOOL TO VMS      DSAB:[MUMPS,DEV MGR]

SPOOL DEVICE :      SPOOL
Select HEALTH SUMMARY PARAMETERS:      <RET>

```

Ad Hoc Health Summaries

Temporary (ad hoc) health summaries can be created “on-the-fly” and run for individual patients, as follows:

1. First, select a combination of components from a menu of all available components.
2. Next, (if applicable) specify time limits, occurrence limits, hospital location, ICD text display, provider narrative display, and selection items for any of the components, or accept site-defined defaults.
3. Then, select a patient and run the resulting health summary.

Both pre-defined and ad hoc health summaries may be run interactively on your terminal, or directed to any printer. Pre-defined health summary types can also be queued to run nightly for all patients at any specified location(s). Either interactive or batch-mode print-by-location health summaries may also be printed “in tandem” with the Outpatient Pharmacy Action Profile (including bar codes) for each of the patients at the selected location.

OE/RR Interface

Health Summary V. 2.7 interfaces with Order Entry/Results Reporting V. 2.5 to provide Order Entry users with an integrated view of both *orders* (from OE/RR) and *results* (from Health Summary). This interface, in turn, enhances Health Summary by allowing Health Summary users:

- *Multiple Patient Selection.*
You can select multiple patients from ward, clinic, treating specialty, attending physicians, personal or team lists. Health Summary uses enhanced patient look-up routines in OE/RR V. 2.5 for reporting results.
- *Double Up Arrow (^ ^) Jump.*
The ^ ^ jump allows users to jump from Health Summary to OE/RR or Progress Notes and return to the departure point. This jump capability is available at three Health Summary prompts:
 1. “Press <RET> to continue, ^ to exit, or select component:” prompt in any of the interactive Health Summary options.
 2. “Select NEW set of COMPONENT(S):” prompt.
 3. “Select COMPONENT(S) to EDIT or other COMPONENT(S) to ADD:” prompt in the Ad Hoc Health Summary option.

The ^^ jump occurs immediately if you have selected a patient while using the Patient Health Summary option, or will complete the jump after you have selected a patient using the Ad Hoc Health Summary option.

If the ORWARD key is assigned to the appropriate protocols, you can do following with ^^:

^^?	List <i>all</i> available options/protocols to jump to
^^OR	Jump to OE/RR's Act on Existing Order option
^^PN	Enter or review the patient's progress notes
^^CBC	Order an individual Lab test, e.g. CBC
^^HS	Jump to available Health Summary options

NOTE: To return back to Health Summary, enter a single up-arrow (^).

Relationship to Integrated Billing's Encounter Form Utilities

The Integrated Billing package (Encounter Form Utilities) includes a Print Manager that allows sites to define reports that should print along with encounter forms for a specific clinic or division and for specified appointments. One of the options, "Define Available Health Summary," allows a health summary to be made available for use by the print manager. See the *IB Encounter Form Utilities User Manual* for further information.

Nightly Batch Processing

The Health Summary package allows coordinators to schedule batch processing of health summaries for patients in a particular ward, or to schedule batch processing of health summaries a specified number of days before patients are scheduled for clinic visits or operating rooms. The benefits of batch processing are:

- 1) It enables the clinic to have the most currently available clinical information when the patient arrives for the appointment, and
- 2) Processing of the prints takes place during non-peak computer hours.

To use this feature the IRM Service must first use the option Schedule/Unschedule Options on the the TaskMan menu, and schedule the GMTS TASK STARTUP option to initiate nightly batch printing. (See page 31 in the *Health Summary Installation Guide*.)

Each time this option runs, it uses the parameters set up by the Health Summary Coordinator in the Set up Batch Print Locations option. For Version 2.7 of Health Summary, this option has been updated to recognize non-workdays. For clinics and operating rooms, if it is set up to print two days in advance, Tuesday's clinics will print on Friday rather than on Sunday. If Tuesday happens to be a holiday, the Wednesday clinics will print on Friday.

Health Summary Components Headers and Abbreviations

Use the Information Menu option (available in all three Health Summary user menus) to get an on-line listing of the information contained in each health summary component or health summary type.

Component Name	Default Header Name	Abbr.
ADVANCE DIRECTIVE	Advance Directive	CD
ADVERSE REACTIONS/ALLERG BRIEF	Brief Adv React/All	BADR
ADVERSE REACTIONS/ALLERGIES	Adv React/Allerg	ADR
CLINICAL WARNINGS	Clinical Warnings	CW
COMPENSATION AND PENSION EXAMS	Comp. & Pen. Exams	CP
CRISIS NOTES	Crisis Notes	CN
DIETETICS	Dietetics	DI
DISCHARGE SUMMARY	Discharge Summary	DCS
DISCHARGE SUMMARY BRIEF	Brief Disch Summary	BDS
LAB BLOOD AVAILABILITY	Blood Availability	BA
LAB BLOOD TRANSFUSIONS	Blood Transfusions	BT
LAB CHEMISTRY & HEMATOLOGY	Chem & Hematology	CH
LAB CUMULATIVE SELECTED	Lab Cum Selected	SCLU
LAB CUMULATIVE SELECTED 1	Lab Cum Selected 1	SCL1
LAB CUMULATIVE SELECTED 2	Lab Cum Selected 2	SCL2
LAB CUMULATIVE SELECTED 3	Lab Cum Selected 3	SCL3
LAB CUMULATIVE SELECTED 4	Lab Cum Selected 4	SCL4
LAB CYTOPATHOLOGY	Cytopathology	CY
LAB ELECTRON MICROSCOPY	Electron Microscopy	EM
LAB MICROBIOLOGY	Microbiology	MIC
LAB MICROBIOLOGY BRIEF	Brief Microbiology	BMIC
LAB ORDERS	Lab Orders	LO
LAB ORDERS BRIEF	Brief Lab Orders	BLO
LAB SURGICAL PATHOLOGY	Surgical Pathology	SP
LAB TESTS SELECTED	Lab Tests Selected	SLT
MAS ADMISSIONS/DISCHARGES	Admission/Discharge	ADC

Implementation and Maintenance

Component Name	Default Header Name	Abbr.
MAS ADT HISTORY	ADT History	ADT
MAS ADT HISTORY EXPANDED	ADT History Expanded	EADT
MAS CLINIC VISITS FUTURE	Fut Clinic Visits	CVF
MAS CLINIC VISITS PAST	Past Clinic Visits	CVP
MAS DEMOGRAPHICS	Demographics	DEM
MAS DEMOGRAPHICS BRIEF	Brief Demographics	BDEM
MAS DISABILITIES	Disabilities	DS
MAS DISCHARGE DIAGNOSIS	Discharge Diagnosis	DD
MAS DISCHARGES	Discharges	DC
MAS PROCEDURES ICD CODES	ICD Procedures	PRC
MAS SURGERIES ICD CODES	ICD Surgeries	OPC
MAS TRANSFERS	Transfers	TR
MAS TREATING SPECIALTY	Treating Specialty	TS
MEDICINE ABNORMAL	Med Abnormal	MEDA
MEDICINE BRIEF REPORT	Med Brief Report	MEDB
MEDICINE FULL CAPTIONED	Med Full Captioned	MEDC
MEDICINE FULL REPORT	Med Full Report	MEDF
MEDICINE (1 LINE) SUMMARY	Medicine (1 line)Summary	MEDS
MENTAL HEALTH PHYSICAL EXAM	MH Physical Exam	MHPE
ORDERS CURRENT	Current Orders	ORC
PCE CLINICAL MAINTENANCE	Clinical Maintenance	CM
PCE CLINICAL REMINDERS	Clinical Reminders	CR
PCE EDUCATION	Education	ED
PCE EDUCATION LATEST	Education Latest	EDL
PCE EXAMS LATEST	Exams Latest	EXAM
PCE HEALTH FACTORS ALL	Health Factors	HF
PCE HEALTH FACTORS SELECTED	Health Factor Select	SHF
PCE IMMUNIZATIONS	Immunizations	IM
PCE LOCATION OF HOME	Location of Home	LH
PCE MEASUREMENTS NON-TABULAR	Non-Tabular Measurem	NTM
PCE MEASUREMENTS SELECTED	Measurement Selected	MEAS
PCE OUTPATIENT DIAGNOSIS	Outpatient Diagnosis	OD
PCE OUTPATIENT ENCOUNTERS	Outpatient Encounter	OE
PCE SKIN TESTS	Skin Tests	ST
PCE TREATMENTS PROVIDED	Treatments Provided	TP
PHARMACY INTRAVENOUS	IV Pharmacy	RXIV
PHARMACY OUTPATIENT	Outpatient P harmacy	RXOP
PHARMACY UNIT DOSE	Unit Dose Pharmacy	RXUD
PROBLEM LIST ACTIVE	Active Problems	PLA
PROBLEM LIST ALL	All Problems	PLL
PROBLEM LIST INACTIVE	Inactive Problems	PLI
PROGRESS NOTES	Progress Notes	PN
PROGRESS NOTES BRIEF	Brief Progress Notes	BPN
RADIOLOGY IMPRESSION	Radiology Impression	RI
RADIOLOGY IMPRESSION SELECTED	Sel Rad Impression	SRI
RADIOLOGY PROFILE	Radiology Profile	RP
RADIOLOGY STATUS	Radiology Status	RS
SOCIAL WORK	Social Work	SW
SURGERY REPORTS	Surgery Reports	SR
SURGERY REPORTS BRIEF	Brief Surgery Rpts	BSR
VITAL SIGNS	Vital Signs	VS
VITAL SIGNS SELECTED	Vital Signs Selected	SVS

Customized Health Summary Types

A user with access to the Coordinator's or Enhanced menu can create a customized health summary type. Use the Create/Modify Health Summary Type menu option located on the Health Summary Enhanced Menu or the Build Health Summary Type submenu of the Health Summary Coordinator's menu. Select the desired components, and (depending on the data required by the selected components) apply time limits or maximum occurrence limits to components which are date-sensitive. You may also apply ICD text, provider narrative, selection items, and header names for components that allow these to be specified.

Users who do not have access to the enhanced or coordinator's menus can request a customized health summary type from their IRMS or Health Summary coordinator. The form entitled "Request for Health Summary Type," located in Appendix A of the *Health Summary User Manual*, is a convenient way to submit such requests.

Customizing the Ad Hoc Health Summary Type

You can also customize the Ad Hoc Health Summary Type with the Edit Ad Hoc Health Summary Type option on the Maintenance Menu. This option lets you modify time and/or occurrence limits, hospital location displayed, ICD text displayed, provider narrative displayed, header names, or assign selection items (tests like WBC, Glucose) to the *selected* health summary components (Lab Cumulative Selected, Lab Cumulative Selected 1-4, Lab Tests Selected, Measurement Selected, Vital Signs Selected, and Radiology Impression Selected, etc.). Consult with your clinical coordinator and/or users about which selection items they would like to have on their Health Summaries.

You may select individual components and edit their default parameters, or use the ^LOOP feature at the Select COMPONENT: prompt to loop through all of the components, editing the default values as you go.

NOTE: When selecting components from the Ad Hoc Health Summary menu, entering "ALL" allows all components to be selected. If the first three characters of aHEADER NAME for a component are designated as "All," however, then only the defined component will be selected. Avoid conflicts and loss of functionality by not using "all" at the front of new header names.

Edit Ad Hoc Health Summary Type Example

NOTE: Bold-faced text indicates user entries.

```

Select Health Summary Overall Menu Option Name:      Health Summary Maintenance Menu
  1      Disable/Enable Health Summary Component
  2      Create/Modify Health Summary Components
  3      Edit Ad Hoc Health Summary Type
  4      Rebuild Ad Hoc Health Summary Type
  5      Resequence a Health Summary Type
  6      Create/Modify Health Summary Type
  7      Edit Health Summary Site Parameters

Select Health Summary Maintenance Menu Option:      Edit Ad Hoc Health Summary Type

Edit Ad Hoc Health Summary Type

>>> EDITING the GMTS HS ADHOC OPTION Health Summary Type
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA:

Do you wish to review the Summary Type structure before continuing? NO//      <RET>
Select COMPONENT: PROB
  1      PROBLEM LIST ACTIVE          PLA
  2      PROBLEM LIST ALL             PLL
  3      PROBLEM LIST INACTIVE        PLI
CHOOSE 1-3:  1
SUMMARY ORDER: 5// <RET> 5
ICD TEXT DISPLAYED:  ??
    This field controls hows ICD text is displayed in components where ICD
    Text applies (e.g., PCE Outpatient Encounters, PCE Outpatient Diagnosis
    and Problem List All). The applicable component display/print can be
    customized to include ICD Text in the following format: code and long
    description, code and short description, code only, long description only
    or nothing. This control is independent of whether provider narrative is
    displayed -- either or both may be specified.
    Choose from:
      L      long text
      S      short text
      C      code only
      T      text only
      N      none
ICD TEXT DISPLAYED:  S short text
PROVIDER NARRATIVE DISPLAYED:  ??
    This field controls whether provider narrative is displayed or not. It
    applies to components where provider narrative is applicable (e.g., PCE
    Outpatient Encounters, PCE Outpatient Diagnosis, Problem List All). This
    control is independent of whether or not ICD text is displayed -- either
    or both may be specified. If not specified, provider narrative will be
    displayed by default.
    Choose from:
      Y      yes
      N      no
PROVIDER NARRATIVE DISPLAYED:  Y yes
HEADER NAME: Active Problems//      <RET>
Select COMPONENT:  <RET>

Do you wish to review the Summary Type structure before continuing? NO//
<RET>YES
                                HEALTH SUMMARY TYPE INQUIRY

                                Type Name: GMTS HS ADHOC OPTION
                                Title: Ad Hoc Health Summary Type
                                Owner: LOCK: GMTSMGR
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA:

Abb.  Order  Component Name          Max      Hosp  ICD   Prov
                                Occ  Time  Loc  Text  Narr  Selection

```


Routine Descriptions

Name	Description
GMTSLROB	Brief Lab Order Status Summary Component
GMTSLROE	Lab Orders Extract Routine
GMTSLROS	Lab Order Status Summary Component
GMTSLRPE	Cytopathology Extract Routine
GMTSLRS	Sel Lab Component w/Selection Items
GMTSLRS7	Sel Cum Lab Component w/Selection Items
GMTSLRSC	Sel Cum Lab Component w/Selection Items
GMTSLRSE	Selected Lab Test Extract Routine
GMTSLRT	Blood Bank Transfusion Component Driver
GMTSLRTE	Transfusion Record Extract Routine
GMTSLTR	Print Big Letters
GMTSLTR2	Setup letters
GMTSMCMA	Medicine 2.2 interface routine
GNTSNCP	Medicine 2.2 Health Summary Component
GMTSMCPZ	Medicine 2.0 HS Component
GMTSMCZZ	Medicine 2.2 HS Component
GMTSMHPE	Mental Health Physical Exam Component
GMTSNTE*	Package checksum checker
GMTSO*	Onits
GMTSORC	Current Orders Component
GMTSPCD	Job to Queue HS Batch Print Clinic HS by Selected Date
GMTSPD	Driver for Interactive Print-by-Location
GMTSPD2	Cont. driver for Interactive Print-by-Location
GMTSPDX	PDX Health Summary Driver
GMTSPDXZ	Create Data Segment from H.S. Component
GMTSPL	Print/Queue HS for Patient Lists
GMTSPLST	Problem List HS Component Driver
GMTSPLSZ	Updated Problem List 2.0 extract routine. in HS namespace
GMTSPN	Progress Note Component
GMTSPN1	Progress Note Component - Print Variables
GMTSPN2	Progress Note Component - Print Variables
GMTSPNB	Brief Progress Notes Component
GMTSPNE	Progress Notes Component
GMTSPNJ	Nightly Job to Queue HS Batch Print-by-Location
GMTSPNS	Progress Note Component
GMTSPOS1	Smart routine installer and Comp. Disabler
GMTSPOS2	Set PDX up to use new HS components
GMTSPOST	Post-init for Health Summary
GMTSPP	Define Health Summary Print-by-Location Parameters
GMTSPREI	GMTS* Preinit
GMTSPSG	UD Rx Summary Component
GMTSPSI	IV Rx Summary Component
GMTSPSO	OP Rx Summary Component
GMTSPSZO	OP Rx 5.6 Summary Component
GMTSPXEP	PCE Patient Education components
GMTSPXFP	PCE Health Factors Component
GMTSPXHP	PCE Location of Home component
GMTSPXHR	PCE Clinical Reminders/Maintenance Components
GMTSPXIM	PCE Immunization component
GMTSPXM	PCE Non Tabular Measurement comp
GMTSPXMP	PCE Selected Measurement Component
GMTSPXOP	PCE Outpatient Encounter component
GMTSPXSK	PCE Skin Test component
GMTSPXTP	PCE Treatment Component
GMTSPXU1	PCE Utilities sub-routines
GMTSPXU2	PCE Drivers for visits
GMTSPXXP	PCE Examination routine
GMTSRAD	Radiology Request Status Component

Name	Description
GMTSRAE	Selected Radiology Extract
GMTSRAI	Radiology Impression Component
GMTSRAS	Radiology Profile Component
GMTSRASP	Selected Radiology Component
GMTSRI	Health Summary Type Inquiry
GMTSRM	Create/Modify Health Summary Type ;9/29/92 13:40 ;
GMTSRM1	Create/Modify Health Summary (cont'd) ;10/1/92 10:52
GMTSRM1A	Create/Modify Health Summary (cont'd) ;27/APR/94
GMTSRM2	Create/Modify Health Summary Type- Help Processing
GMTSRM3	Create/Modify Health Summary - Edit selection items
GMTSRM4	Create/Modify Health Summary - Insert, Append Delete Components
GMTSRM5	Create/Modify - Copy from existing type
GMTSRN	Renumber Selected Health Summary Type
GMTSRO	Surgery Reports
GMTSROB	Surgery Reports Brief
GMTSSOWK	Social Work Component driver
GMTSSOWZ	Social Work extract comp. in HS namespace
GMTSU	Health Summary Utilities
GMTSUP	Utilities for Paging Health Summary
GMTSUP1	Utilities for Paging Health Summary
GMTSVS	Vital Signs Component
GMTSVSS	Selected Vital Signs Component

Routine Descriptions

Files and Globals List

The following is a list of the files contained in the Health Summary package, including file number, name, global location, and an indicator if data comes with the file.

<u>Number</u>	<u>Name</u>	<u>Global</u>	<u>Data</u>
142	HEALTH SUMMARY TYPE	^GMT(142,	YES

Description

This file contains the structure of a health summary. Components from the Health Summary Components file (142.1) may be selected and restricted by number of occurrences or time limits. The original creator of a type of Health Summary is the owner of that type. Health summaries that are “owned” may not be modified or deleted by anyone except the Clinical Coordinator. “Owned” Health Summaries may be used by other users to print patient information.

<u>Number</u>	<u>Name</u>	<u>Global</u>	<u>Data</u>
142.1	HEALTH SUMMARY COMPONENT	^GMT(142.1,	YES

Description

This file contains all components which may be used to create a Health Summary. These entries are typically defined by a programmer. Components which represent packages that are not in use may be disabled, so they will not be selected by users to build new types of health summary reports.

<u>Number</u>	<u>Name</u>	<u>Global</u>	<u>Data</u>
142.99	HEALTH SUMMARY PARAMETERS	^GMT(142.99,	NO

Description

This file contains any site parameters that apply to the Health Summary package. Currently there are four site parameters: 1) PROMPT FOR ACTION PROFILE; 2) INCLUDE BAR CODE ON ACTION PROFILES; 3) INCLUDE COMMENTS ON LABS; 4) SPOOL DEVICE

Files and Globals List

Exported Menus , Options, and Function

The Health Summary Overall Menu [GMTS MANAGER] contains four menus:

1. Health Summary Menu [GMTS USER]
2. Health Summary Enhanced Menu [GMTS ENHANCED USER]
3. Health Summary Coordinator's Menu [GMTS COORDINATOR]
4. Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU]

Assign these menus as follows:

1. Give the Health Summary Menu [GMTS USER] menu to users who only need to print or display health summaries.
2. Give the Health Summary Enhanced Menu [GMTS ENHANCED USER] menu to users who need to create, modify, or delete their *own* health summary types, in addition to printing health summaries.
3. Give the Health Summary Coordinator's Menu [GMTS COORDINATOR] menu to users who need to print or display health summaries, and who will also need to create, modify, or delete health summary types, and set up nightly batch printing at specified locations.
4. Give the Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU] to IRM staff or the Clinical Coordinator for any implementation and maintenance issues in Health Summary. This menu contains options to disable/enable health summary components for selection/display, create/modify new health summary components, edit and rebuild the Ad Hoc Health Summary Type, resequence the components in a health summary type, create/modify a health summary type, delete a health summary type, and edit health summary site parameters.
5. If an IRM staff member or the Clinical Coordinator needs access to all menus, give the Health Summary Overall Menu [GMTS MANAGER] to those users rather than assigning each menu option separately.

Health Summary Overall Menu [GMTS MANAGER]

1. Health Summary Coordinator's Menu [GMTS COORDINATOR]

- 1 Print Health Summary Menu ... [GMTS HS MENU]
 - 1 Patient Health Summary [GMTS HS BY PATIENT]
 - 2 Ad Hoc Health Summary [GMTS HS ADHOC]
 - 3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
 - 4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
 - 5 Hospital Location Health Summary [GMTS HS BY LOC]
 - 6 Batch Print of All Clinics by Visit Date [GMTS HS FOR ALL CLINICS]
- 2 Build Health Summary Type Menu ... [GMTS BUILD MENU]
 - 1 Create/Modify Health Summary Type [GMTS TYPE ENTER/EDIT]
 - 2 Delete Health Summary Type [GMTS TYPE DELETE]
 - 3 Information Menu ... [GMTS INFO ONLY MENU]
 - 1 Inquire about a Health Summary Type [GMTS TYPE INQ]
 - 2 List Health Summary Types [GMTS TYPE LIST]
 - 3 Inquire about a Health Summary Component [GMTS COMP INQ]
 - 4 List Health Summary Components [GMTS COMP LIST]
 - 5 List Health Summary Component Descriptions [GMTS COMP DESC LIST]
 - 4 Print Health Summary Menu ... [GMTS HS MENU]
 - 1 Patient Health Summary [GMTS HS BY PATIENT]
 - 2 Ad Hoc Health Summary [GMTS HS ADHOC]
 - 3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
 - 4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
 - 5 Hospital Location Health Summary [GMTS HS BY LOC]
 - 6 Batch Print of All Clinics by Visit Date [GMTS HS FOR ALL CLINICS]
- 3 Set-up Batch Print Locations [GMTS HS BY LOC PARAMETERS]
- 4 List Batch Health Summary Locations [GMTS TASK LOCATIONS LIST]

2. Health Summary Enhanced Menu [GMTS ENHANCED USER]

- 1 Patient Health Summary [GMTS HS BY PATIENT]
- 2 Ad Hoc Health Summary [GMTS HS ADHOC]
- 3 Range of Dates Patient Health Summary [GMTSHS BY PATIENT & DATE RANG]
- 4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
- 5 Hospital Location Health Summary [GMTS HS BY LOC]
- 6 Information Menu ... [GMTS INFO ONLY MENU]
 - 1 Inquire about a Health Summary Type [GMTS TYPE INQ]
 - 2 List Health Summary Types [GMTS TYPE LIST]
 - 3 Inquire about a Health Summary Component [GMTS COMP INQ]
 - 4 List Health Summary Components [GMTS COMP LIST]
 - 5 List Health Summary Component Descriptions [GMTS COMP DESC LIST]
- 7 Create/Modify Health Summary Type [GMTS TYPE ENTER/EDIT]
- 8 Delete Health Summary Type [GMTS TYPE DELETE]

3. Health Summary Menu [GMTS USER]

- 1 Patient Health Summary [GMTS HS BY PATIENT]
- 2 Ad Hoc Health Summary [GMTS HS ADHOC]
- 3 Range of Dates Patient Health Summary [GMTS HS BY PATIENT & DATE RANG]
- 4 Visit Patient Health Summary [GMTS HS BY PATIENT & VISIT]
- 5 Hospital Location Health Summary [GMTS HS BY LOC]
- 6 Information Menu ... [GMTS INFO ONLY MENU]
 - 1 Inquire about a Health Summary Type [GMTS TYPE INQ]
 - 2 List Health Summary Types [GMTS TYPE LIST]
 - 3 Inquire about a Health Summary Component [GMTS COMP INQ]
 - 4 List Health Summary Components [GMTS COMP LIST]

4. Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU]

- 1 Disable/Enable Health Summary Component [GMTS IRM/ADPAC ENABLE/DISABLE]
- 2 Create/Modify Health Summary Components [GMTS IRM/ADPAC COMP EDIT]
- 3 Edit Ad Hoc Health Summary Type [GMTS IRM/ADPAC ADHOC EDIT]
- 4 Rebuild Ad Hoc Health Summary Type [GMTS IRM/ADPAC ADHOC LOAD]
- 5 Resequence a Health Summary Type [GMTS IRM/ADPAC TYPE RESEQUENCE]
- 6 Create/Modify Health Summary Type [GMTS TYPE ENTER/EDIT]
- 7 Edit Health Summary Site Parameters [GMTS IRM/ADPAC PARAMETER EDIT]

Function

Health Summary exports a function called GMTS COMPONENT NAME. It is used for writing the HEADER NAME, DEFAULT HEADER NAME, or COMPONENT NAME in Health Summary reports.

Exported Menus, Options, and Functions

Cross-References

Health Summary's MUMPS-type cross-references are listed here.

HEALTH SUMMARY TYPE FILE (142)

CROSS-REFERENCE: 142.01^AM^MUMPS

1)= D REDOX^GMTSDD

2)= D REDOX^GMTSDD

This MUMPS-type cross-reference is used to rebuild the ad hoc and navigational menus when the sequence of components within any Health Summary Type is changed. The XUTL("XQORM", global is used by the Unwinder utility to generate the ad hoc and navigational menus.

CROSS-REFERENCE: 142.01^AM1^MUMPS

1)= D REDOX^GMTSDD

2)= D REDOX^GMTSDD

This MUMPS type cross-reference is used to recompile the navigation and ad hoc menus when components are added to/deleted from a given HS Type. The XUTL("XQORM", global is used by the Unwinder utility to generate the ad hoc and navigational menus.

CROSS-REFERENCE: 142.01^AM5^MUMPS

1)= D REDOX^GMTSDD

2)= D REDOX^GMTSDD

This MUMPS type cross reference will recompile the AD HOC menu when an entry is modified. The XUTL("XQORM", global is used by the Unwinder utility to generate the ad hoc and navigational menus.

CROSS-REFERENCE: 142^AM^MUMPS

1)= D SET^GMTSDD

2)= D KILL^GMTSDD

This MUMPS type cross-reference is used to maintain the navigational menus when changes occur in the structure of a given Health Summary Type. The executed code will rebuild navigational menus when the TIMESTAMP field is modified. The XUTL("XQORM", global is used by the Unwinder utility to generate the ad hoc and navigational menus.

HEALTH SUMMARY COMPONENT FILE (142.1)

CROSS-REFERENCE: 142.1^AM1^MUMPS

1)= D REDO^GMTSDD

2)= D REDO^GMTSDD

This MUMPS type cross-reference is used to rebuild the ad hoc and navigational menus when the NAME of a given component is modified. The XUTL("XQORM", global is used by the Unwinder utility to generate the ad hoc and navigational menus.

CROSS-REFERENCE: 142.1^AM2^MUMPS

1)= D REDO^GMTSDD

2)= D REDO^GMTSDD

This MUMPS type cross-reference is used to rebuild the ad hoc and navigational menus when the ABBREVIATION of a given component is modified. The XUTL("XQORM", global is used by the Unwinder utility to generate the ad hoc and navigational menus.

CROSS-REFERENCE: 142.1^AM^MUMPS

1)= D REDO^GMTSDD

2)= D REDO^GMTSDD

This MUMPS type cross-reference is used to rebuild the ad hoc and navigational menus when a given component is DISABLED. The XUTL("XQORM", global is used by the Unwinder utility to generate the ad hoc and navigational menus.

CROSS-REFERENCE: 142.1^AM9^MUMPS

1)= D REDO^GMTSDD

2)= D REDO^GMTSDD

This MUMPS type cross-reference is used to recompile the ad hoc and navigational menus when the DEFAULT HEADER NAME of a given component is modified. The XUTL("XQORM", global is used by the Unwinder utility to generate the ad hoc and navigational menus.

CROSS-REFERENCE: 142.1^D^MUMPS

1)=S ^GMT(142.1,"D",\$\$SUP^XLFSTR(X),DA)=""

2)=K ^GMT(142.1,"D",\$\$SUP^XLFSTR(X),DA)=""

This MUMPS type cross-reference is used in look-ups of components by DEFAULT HEADER NAME.

Purging and Archiving

Archiving

The Health Summary package does not provide archiving functionality because data is only stored for the Health Summary Type (#142), Health Summary Component (#142.1), and Health Summary Parameters (#142.99) files.

The Health Summary package does not duplicate storage of DHCP ancillary package data. Data is extracted as needed from the ancillary packages, is temporarily stored in ^TMP(<namespace>,\$J, or ^UTILITY(\$J, and is deleted after the component has been printed or displayed.

Purging

The Delete Health Summary Type option [GMTS TYPE DELETE] is available on both the Coordinator's and the Enhanced menus. The owner of a health summary type may delete it.

Privacy Act laws specifically state that patient information in Decentralized Hospital Computer Program (DHCP) which is retrievable by patient identifier is part of the patient medical record. Printed Health Summary information is patient information that is retrievable by patient identifier, and is considered part of the patient record. However, since the information on the Health Summary can be found elsewhere in the patient record, administrators in a Medical Center can choose whether or not to file hard copies of health summaries in the medical record. If you choose to file copies in the medical record, be aware that *information in a health summary is only a summary and may not be complete in many cases.*

Purging and Archiving

Callable Routines

Health Summary does not provide any publicly supported entry points. Included below is a list of entry points that are used by the Health Summary package. Use of these entry points by other packages requires a private Data Base Integration Agreement (DBIA) with Health Summary.

Routine: GMTS: Health Summary Main Routine

Entry Point	Comments
ENCWA	<p>Entry point for printing without going through Health Summary print options and a pre-defined health summary type.</p> <p>Receives: DFN as valid patient internal entry number GMTSPRM = "CD, CN,CW,ADR". These are valid component abbreviations from the "C" cross reference of File 142.1. Does not support components that require selection items. GMTSTITL="Text of Title"</p> <p>GMTSPX1 - Optional internal FM date for range ending date GMTSPX2 - Optional internal FM date for range beginning date</p> <p>NOTE: Optional date range variables are both required if a date range is desired.</p> <p>Returns: Health Summary report for a patient and the specific components defined in GMTSPRM.</p>

Routine: GMTSADOR: Ad Hoc Summary Driver

Entry Point	Comments
MAIN	<p>Entry point to allowing the user to define components and defaults through the Ad Hoc menu interface and print health summaries for a programmer-specified patient and device.</p> <p>Receives: DFN as valid patient internal entry number. If DFN is not defined but the ORVP variable is, DFN will be set to the DFN in this variable. This is done to allow this entry point to be called through a protocol in support of OE/RR. If DFN and ORVP don't exist, the user will be prompted to enter a patient.</p>

Routine: GMTSDVR: Health Summary Alternate Driver (OE/RR V2.5 compatible)

Entry Point	Comments
ENX(DFN, GMTSTYP, GMTSPX2, GMTSPX1)	<p>Entry point, with parameters, for printing a health summary for a programmer-specified patient and device, without prompting for additional information.</p> <p>Receives: DFN as valid patient internal entry number</p> <p>GMTSTYP as a valid health summary type internal entry number.</p> <p>GMTSPX1 and GMTSPX2 are optional Date and Range variables. They allow the time limits to be overridden for components that use time limits. Thus, beginning and ending dates can be specified in order to get only data within that time range.</p> <p>GMTSPX2 - Internal FileMan date for beginning date range GMTSPX1 - Internal FileMan date for ending date range</p>

Routine: GMTSDVR: Health Summary Alternate Driver (OE/RR V2.5 compatible) cont'd

Entry Point	Comments
ENXQ	<p>External call for tasked Health Summary printing.</p> <p>Receives: DFN as valid patient internal entry number</p> <p> GMTSTYP as a valid health summary type internal entry number.</p> <p> GMTSPX1 - Optional internal FM date for range ending date</p> <p> GMTSPX2 - Optional FM date for range beginning date</p> <p>NOTE: Optional date range variables are both required if a date range is desire</p>

Routine: GMTSU: Health Summary Utilities routine

Entry Point	Comments
MTIM	<p>Converts time from an internal format to a display format.</p> <p>Receives: X=internal format Date/time as 2900310.1300</p> <p>Returns: X=printable time as 13:00</p>
REGDT	<p>Gets internal date and formats as MM/DD//YY</p> <p>Receives: X=internal format Date/time as 2900310.1300</p> <p>Returns: X=03/10/90</p>
REGDTM	<p>Gets regular date and formats with time.</p> <p>Receives: X=internal format Date/time as 2900310.1300</p> <p>Returns: X=03/10/90 13:00</p>
SIDT	<p>Gets date in SI format as DD MMM YY</p> <p>Receives: X as internal FM date/time, e.g., 2890630.1650</p> <p>Returns: X=30 JUN 89</p>
FMHL7DTM	<p>Gets HL7 format date/time as CCYYMMDDHHMM</p> <p>Receives: X=internal format 2900310.1300 as Date/time</p> <p>Returns: X=29003101300</p>

Routine: GMTSU: Health Summary Utilities routine cont'd

Entry Point	Comments
DEM	Gets Demographic data from VADPT Receives: DFN Returns: GMTSPNM, GMTSSN, GMTSDOB, SEX, GMTSWARD, GMTSRB, GMTSAGE
NAME	Formats names. Receives: FILE=(200) IFN=(internal file number for above file), NML=(desired length for name to be returned) FNF=0 for FI, 1 for FN (flag to specify first name format)
GETRANGE (Fromdate, Todate)	Returns: NM=Lastname, First(name/initial) to specified length. Receives: Fromdate and Todate which are variables (passed by reference) that will return the From date and the To date in inverted order. Fromdate Inverted date to be used as stop date for displaying most recent data first. Todate Inverted date to be used as start date for displaying most recent data first.

Routine: GMTSUP: Pagination Utilities

Entry Point	Comments
CKP	Called from all component print routines; before printing each line checks SY and flags form feeds. Receives: DFN as valid patient internal entry number Returns: GMTSNPG=0; No form feed has been forced GMTSNPG=1; Form feed has been forced GMTSQIT=defined when an up-arrow (^) has been entered to quit summary
CKP1	Help display of the optional components for navigation.
BREAK	Called from CKP before printing the component data and when form feeds are forced. Writes the delimiter of each component.
HEADER	Called from the driver at the beginning of the summary, and from CKP when form feeds are forced. Writes the running head of the summary report.

External Relations

Non-destructive, read-only component routines have been written to present the following DHCP ancillary package data:

PACKAGE	COMPONENT	ROUTINE
Allergy Tracking System	ADVERSE REACTIONS/ALLERGIES	ALLRG^GMTSALG
	ADVERSE REACTIONS/ALLERG BRIEF	ALLRG^GMTSALGB
Automated Medical Information Exchange (AMIE)	COMPENSATION AND PENSION EXAMS	MAIN^GMTSAMIE
Dietetics	DIETETICS	MAIN^GMTSFH
Discharge Summary	DISCHARGE SUMMARY	MAIN^GMTSDS
	DISCHARGE SUMMARY BRIEF	MAIN^GMTSDSB
Laboratory	LAB BLOOD AVAILABILITY	MAIN^GMTSLRB
	LAB BLOOD TRANSFUSIONS	MAIN^GMTSLRT
	LAB CHEMISTRY & HEMATOLOGY	MAIN^GMTSLRC
	LAB CUMULATIVE SELECTED	MAIN^GMTSLRSC
	LAB CUMULATIVE SELECTED 1	MAIN^GMTSLRS7
	LAB CUMULATIVE SELECTED 2	MAIN^GMTSLRS7
	LAB CUMULATIVE SELECTED 3	MAIN^GMTSLRS7
	LAB CUMULATIVE SELECTED 4	MAIN^GMTSLRS7
	LAB CYTOPATHOLOGY	MAIN^GMTSLRCP
	LAB ELECTRON MICROSCOPY	MAIN^GMTSLREM
	LAB MICROBIOLOGY	MAIN^GMTSLRM
	LAB MICROBIOLOGY BRIEF	MAIN^GMTSLRMB
	LAB ORDERS	MAIN^GMTSLROS
	LAB ORDERS BRIEF	MAIN^GMTSLROB
LAB SURGICAL PATHOLOGY	MAIN^GMTSLRA	
LAB TESTS SELECTED	MAIN^GMTSLRS	
Medicine	MEDICINE ABNORMAL BRIEF	ABN^GMTSMCPS
	MEDICINE BRIEF REPORT	BRIEF^GMTSMCPS
	MEDICINE FULL CAPTIONED	CAP^GMTSMCPS
	MEDICINE FULL REPORT	FULL^GMTSMCPS
	MEDICINE SUMMARY	BEG^GMTSMCPS
Mental Health	MENTAL HEALTH PHYSICAL EXAM	MAIN^GMTSMHPE
Nursing	VITAL SIGNS	ENVS^GMTSVS
	VITAL SIGNS SELECTED	ENVS^GMTSVSS
Order Entry/Results Reporting (OE/RR)	ORDERS CURRENT	MAIN^GMTSORC
Patient Care Encounter (PCE)	PCE LOCATION OF HOME	
	HOMELOC^GMTSPXHP	
	PCE CLINICAL MAINTENANCE	MAINHM^GMTSHR
	PCE CLINICAL REMINDERS	MAIN^GMTSHR

External Relations

PACKAGE	COMPONENT	ROUTINE
PCE (continued)	PCE EDUCATION PCE EDUCATION LATEST PCE EXAMS LATEST PCE HEALTH FACTORS ALL PCE HEALTH FACTORS SELECTED PCE IMMUNIZATIONS PCE MEASUREMENTS NON-TABULAR PCE MEASUREMENTS SELECTED PCE OUTPATIENT DIAGNOSIS PCE OUTPATIENT ENCOUNTERS PCE SKIN TESTS PCE TREATMENTS PROVIDED	PTED^GMTSPXEP MRPTED^GMTSPXEP MRE^GMTSPXXP HFACT^GMTSPXFP HFSEL^GMTSPXFP IMMUN^GMTSPXIM MEAS^GMTSPXM MEASP^GMTSPXMP PURPOSE^GMTSPXOP OUTPT^GMTSPXOP SKIN^GMTSPXSK TRTMT^GMTSPXTP
Patient Information Management System (PIMS)	MAS ADMISSIONS/DISCHARGES MAS ADT HISTORY MAS ADT HISTORY EXPANDED MAS CLINIC VISITS FUTURE MAS CLINIC VISITS PAST MAS DEMOGRAPHICS MAS DEMOGRAPHICS BRIEF MAS DISABILITIES MAS DISCHARGE DIAGNOSIS MAS DISCHARGES MAS PROCEDURES ICD CODES MAS SURGERIES ICD CODES MAS TRANSFERS MAS TREATING SPECIALTY	ENAD^GMTSDGA MAIN^GMTSDGH MAIN^GMTSDGCH FUTURE^GMTSDA PAST^GMTSDA DEMOG^GMTSDEM DEMOG^GMTSDEM8 MAIN^GMTSDGD ENDX^GMTSDGA ENDC^GMTSDGA ENP^GMTSDGP ENS^GMTSDGP ENTR^GMTSDGA ENTS^GMTSDGA
Pharmacy	PHARMACY INTRAVENOUS PHARMACY OUTPATIENT PHARMACY UNIT DOSE	MAIN^GMTSPSI MAIN^GMTSPSO MAIN^GMTSPSG
Problem List	PROBLEM LIST ACTIVE PROBLEM LIST ALL PROBLEM LIST INACTIVE	ACTIVE^GMTSPLST ALL^GMTSPLST INACT^GMTSPLST
Generic Progress Notes	ADVANCE DIRECTIVE CRISIS NOTES CLINICAL WARNINGS	CD^GMTSCW CN^GMTSCW CW^GMTSCW
Mental Health and Generic Progress Notes	PROGRESS NOTES PROGRESS NOTES BRIEF	PN^GMTSPN MAIN^GMTSPNB
Radiology	RADIOLOGY IMPRESSION RADIOLOGY IMPRESSION SELECTED RADIOLOGY PROFILE RADIOLOGY STATUS	ENSRA^GMTSRAI MAIN^GMTSRASP ENSRA^GMTSRAS ENRAD^GMTSRAD
Social Work	SOCIAL WORK	MAIN^GMTSSOWK
Surgery	SURGERY REPORTS SURGERY REPORTS BRIEF	ENSR^GMTSRO ENSR^GMTSROB

Database Integration Agreements

The Health Summary package interacts with, and extracts data from many other DHCP software packages. Permission for Health Summary to use data from the other packages is obtained by completing a written integration agreement with each of the other packages. Complete integration agreements are under the DBA menu on Forum.

DBIA	Description	Custodial Package
14	Call EN1^GMRVUTO	GEN. MED. REC. - VITALS
15	Access File 70	RADIOLOGY
16	Access File 130	SURGERY
17	Access File 405	REGISTRATION
18	Access File 44	SCHEDULING
22	Access File 44	SCHEDULING
23	Access File 2	REGISTRATION
60	Call ^PSOHCSUM	OUTPATIENT PHARMACY
67	Access File 60	LAB SERVICE
71	Add GMTS to ^DIC(60,	LAB SERVICE
73	Call ^FHWHEA	DIETETICS
74	Access File 121	PROGRESS NOTES
75	Access File 606	MENTAL HEALTH
76	Access File 2	REGISTRATION
77	Access File 115	DIETETICS
78	Add GMTS to ^DIC(120.51,	GEN. MED. REC. - VITALS
80	Access File 690	MEDICINE
81	Access File 2	PATIENT FILE
82	Call EN^XQORM	UNWINDER
148	Call PATIENT^ORU1	ORDER ENTRY/RESULT REPORTING
155	Access File 60	LAB SERVICE
183	Call DFN^PSOSD1	OUTPATIENT PHARMACY
185	Access File 131.7	SURGERY
211	Access File 60	LAB SERVICE
256	Add GMTS to File 71	RADIOLOGY
298	Access File 394.61	PATIENT DATA EXCHANGE
486	Call ENHS^PSJEEU0	INPATIENT MEDICATIONS
500	Access File 72	RADIOLOGY
501	Access File 74	RADIOLOGY
502	Access File 71	RADIOLOGY
503	Access File 71.2	RADIOLOGY
504	Access File 75.1	RADIOLOGY
510	Access ^DISV Global	VA FILEMAN
511	Access ^DIC Global	VA FILEMAN
512	Call ^DGPMLOS	REGISTRATION
522	Access File 55	OUTPATIENT PHARMACY
523	Access File 52	OUTPATIENT PHARMACY
524	Access File 61	LAB SERVICE
525	Access File 63	LAB SERVICE
526	Access File 61.2	LAB SERVICE
527	Access File 65	LAB SERVICE
528	Access File 66	LAB SERVICE
529	Access File 61.1	LAB SERVICE
530	Access File 62.05	LAB SERVICE
531	Access File 68	LAB SERVICE

External Relations

DBIA	Description	Custodial Package
532	Access File 69	LAB SERVICE
533	Access File 55	UNIT DOSE PHARMACY
534	Access File 53.1	UNIT DOSE PHARMACY
535	Access File 55	PHARMACY
536	Access File 52.6	IV PHARMACY
537	Access File 52.7	IV PHARMACY
538	Access File 121.1	PROGRESS NOTES
539	Access File 606.5	MENTAL HEALTH
540	Access File 699	MEDICINE
541	Access File 694	MEDICINE
542	Access File 697.2	MEDICINE
641	Access File 130	SURGERY
684	Access File 63	LAB SERVICE
685	Access File 65	LAB SERVICE
686	Access File 69	LAB SERVICE
687	Access File 68	LAB SERVICE
811	Call MAIN^GMRDXTRT	DISCHARGE SUMMARY
817	Call \$\$TRANENC^VAQUTL3	PATIENT DATA EXCHANGE
818	Call \$\$NCRYPTON^VAQUTL2	PATIENT DATA EXCHANGE
819	Call \$\$ENC DSP^VAQSH	PATIENT DATA EXCHANGE
820	Access File 394.71	PATIENT DATA EXCHANGE
905	Access File 120.8	GEN. MED. REC. - ALLERGIES
906	Access File 121.2	PROGRESS NOTES
915	Call ^SOWKHSUM	SOCIAL WORK
999	Access for ^DD(Global.	VA FILEMAN
1003	Access File 41.1	REGISTRATION
1023	Call \$\$ADDSEG^VAQUTL50 and Call \$\$FIRSTUP^VAQUTL50	PATIENT DATA EXCHANGE
1024	Access File 40.7	SCHEDULING
1025	Access File 409.5	SCHEDULING
1026	Access File 409.1	SCHEDULING
1027	Distribute ^VAQUTL50 if not on System	PATIENT DATA EXCHANGE
1092	Call DSCOC^21SPL and DSD^21SPL Access Files 3.51 and 3.519	KERNEL
1138	Call HSCP^DVBCHS0	AUTOMATED MED INFO EXCHANGE
1183	Call GETLIST^GMPLHS	PROBLEM LIST
1236	Call \$\$HL7^MCORMN	MEDICINE
1238	Call VISIT^PXRHS01	PATIENT CARE ENCOUNTER
1239	Call IMMUN^PXRHS03	PATIENT CARE ENCOUNTER
1240	Call SKIN^PXRHS04	PATIENT CARE ENCOUNTER
1241	Call EXAM^PXRHS05	PATIENT CARE ENCOUNTER
1242	Call TREAT^PXRHS06	PATIENT CARE ENCOUNTER
1243	Call HF^PXRHS07	PATIENT CARE ENCOUNTER
1244	Call MEAS^PXRHS09	PATIENT CARE ENCOUNTER
1247	Call VISIT^PXRHS12	PATIENT CARE ENCOUNTER
1248	Call MEAS^PXRHS20	PATIENT CARE ENCOUNTER
1253	Access File 9000011	PROBLEM LIST
1254	Call LOC^PXRHS13	PATIENT CARE ENCOUNTER
1256	Access File 811.9	PATIENT CARE ENCOUNTER
1259	Access File 9001017 and Add GMTS to ^DIC(9001017,	PATIENT CARE ENCOUNTER
1268	Access File 9999999.64 and Add GMTS to ^DIC(9999999.64,	PATIENT CARE ENCOUNTER
1273	Call VISIT^PXRHS14	PATIENT CARE ENCOUNTER
1274	Access File 81	CPT/AMB PROCEDURE
1275	Access File 80	DRG GROUPER
1276	Access File 80.1	DRG GROUPER

DBIA	Description	Custodial Package
1280	Access File 90	MENTAL HEALTH
1281	Call DFN^PSOSD1	OUTPATIENT PHARMACY
1323	Call MAIN^PXRHM	PATIENT CARE ENCOUNTER
1372	Access File 45	REGISTRATION

External Relations

Internal Relations

All Health Summary options are independently invocable.

Key and Package-wide Variables

Key Variables

<i>Name</i>	<i>Description</i>
DFN	Patient internal entry number
GMRANGE	If >0 then from and to range of dates asked in order to allow summaries to be displayed between date range. Time limits will be overridden with these dates for components that allow time limits
GMTS1	Inverted date to be used as start date for displaying most recent data first
GMTS2	Inverted date to be used as stop date for displaying most recent data first
GMTSAGE	Patient Age
GMTSBEG	GMTS2 variable un-inverted. This is the beginning date for displaying data for a patient
GMTSDOB	External print format of date of birth
GMTSEND	GMTS1 variable un-inverted. This is the ending date for displaying data for a patient
GMTSDTM	Date and time of health summary printing
GMTSEG()	Array contains sequence of components to be displayed in the report
GMTSEGI()	Array contains subscripts for each of the components in GMTSEG(). Used for navigation functionality
GMTSLPG	Flag indicating that the health summary is on its last component
GMTSNPG	Flag indicating that a page break just occurred

Key Variables

<i>Name</i>	<i>Description</i>
GMTSNDM	Maximum number of occurrences to display (returns “-1” if no maximum occurrences are defined)
GMTSPNM	Patient Name
GMTSPX1	From date that is inverted and set to GMTS1
GMTSPX2	To date that is inverted and set to GMTS1
GMTSPXD1	Formatted From date; if it exists, it will print in header of summary
GMTSPXD2	Formatted To date; if it exists, it will print in header of summary if it exists
GMTSPXGO	If >0, then outpatient visit date or admission dates will be prompted for in order to allow summaries to be displayed for the date at outpatient visits or length of stay of admission. Time limits will be overridden with the date(s) for components that allow limits.
GMTSQIT	Flag indicating what happened in the page break logic
GMTSRB	External print format of Room/Bed
GMTSSN	Patient Social Security Number
GMTSTITL	Title text for header
GMTSWARD	External print format of ward location of inpatient
GMTSTYP	Health Summary type internal entry number
GMPXHLOC	Flag indicating if Hospital Location abbreviation should appear in outpatient visit components.
GMPXICDF	Flag indicating if the long form, short form, code only, or no form of ICD diagnosis narrative should appear in outpatient visit components.
GMPXNARR	Flag indicating if provider narrative should be displayed.
SEX	Patient’s sex - “M” for Male and “F” for Female.

Package-Wide Variables

There are no package-wide variables in the Health Summary package.

Generating Online Documentation

Routines

The namespace for the Health Summary package is GMTS. Use the Kernel option, List Routines [XUPRROU], to print a list of any or all of the Health summary routines. This option is found on the Routine Tools [XUPR-ROUTINE-TOOLS] menu on the Programmer Options [XUPROG] menu, which is a sub-menu of the Systems Manager Menu [EVE] option.

Example:

```
Select Systems Manager Menu Option:  programmer Options
Select Programmer Options Option:    routine Tools
Select Routine Tools Option:        list Routines
Routine Print
Want to start each routine on a new page: No//  <RET>
routine(s) ?  >  GMTS*
```

The first line of each routine contains a brief description of the general function of the routine. Use the Kernel option, First Line Routine Print [XU FIRST LINE PRINT], to print a list of just the first line of each Health Summary subset routine.

Example:

```
Select Systems Manager Menu Option:  programmer Options
Select Programmer Options Option:    routine Tools
Select Routine Tools Option:        First Line Routine Print
PRINTS FIRST LINES
routine(s) ?  >  GMTS*
```

Globals

The globals used in the Health Summary package are:

^GMT(142,
^GMT(142.1,
^GMT(142.99,

Use the Kernel option, List Global [XUPRGL], to print a list of any of these globals. This option is found on the Programmer Options menu [XUPROG], which is a sub-menu of the Systems Manager Menu [EVE] option.

Example:

Select Systems Manager Menu Option:	programmer Options
Select Programmer Options Option:	LIST Global
Global ^GMT*	

%INDEX

%INDEX is a routine that produces a report called the VA Cross-Referencer. This report is a technical and cross-reference listing of one routine or a group of routines. %INDEX provides a summary of errors and warnings for routines that do not comply with VA programming standards and conventions, a list of local and global variables and what routines they are referenced in, and a list of internal and external routine calls.

%INDEX is invoked from programmer mode: D ^%INDEX.

When selecting routines, select GMTS* and exclude the routines GMTSI* (the inits), GMTSON* and GMTSO0* (the onits) .

?, ??, and ??? Online Help

- ? Enter one question mark to see helpful information about the components of the health summary type used in the health summary and the options available.
- ?? Enter two question marks to see a list of available health summary components.
- ??? Enter three question marks for detailed help, if available.

Glossary

Ad Hoc Summary	This is a temporary health summary that allows you to select health summary components, time and occurrence limits, and selection items for a particular patient.
Components	Elements of data from DHCP packages that make up the health summary report (e.g., Demographics).
DHCP	Decentralized Hospital Computer Program—the VA program responsible for installing an integrated computer system in all 172 VA hospitals.
Default	Prompts that have an answer followed by double slashes (//) are called defaults; this means a response has been pre-selected, based on the most likely response or the previous response to this prompt. For example, the prompt “Time Limit:” may have a default of 1 year for Lab Orders, and would appear as: Time Limit: 1Y//. Defaults save you time by allowing you to just hit return rather than typing an answer.
Device	A printer or a computer terminal screen. See the <i>DHCP Users Guide to Computing</i> for basic DHCP computer skills, including printing information.
Hospital Location Displayed	For some PCE components, when this flag is enabled, the Hospital Location abbreviation will be displayed.
ICD Text Displayed	For some components, Diagnosis Text can be customized (e. g., long form, short form, code only, or no form of ICD Diagnosis).

IB Encounter Form Utilities	The Integrated Billing Package (Encounter Form Utilities) includes a Print Manager that allows sites to define reports that should print along with the encounter forms for a specific clinic or division and for specified appointments. One of the options, "Define Available Health Summary," allows a Health Summary to be made available for use by the print manager. See the <i>IB Encounter Form Utilities User Manual</i> for further information.
Lock	Restricts edit access for a given health summary type to the holders of any valid security key. For example, the GMTSMGR key is required to edit summary types that are locked by the GMTSMGR lock.
Non-destructive	Health Summary components are non-destructive, meaning that the Health Summary package does not edit the data from the DHCP package where it extracts its information.
Occurrence Limits	The number of past occurrences that will be reported on a health summary (e.g., the last five occurrences).
Owner	The creator of a health summary type. Owners and holders of the GMTSMGR security key have sole access to modify their health summary type(s).
Provider Narrative Displayed	For some components, when this flag is enabled and a provider enters narrative text, the text will be displayed.
Summary Order	The order in which components appear in a health summary, as defined by the creator of a Summary Type.

Summary Type	The structure or template containing defined components and the unique characteristics with occurrence and time limits, and selection items. Used to print health summaries for patients.
Time Limits	The time period of reference included on a health summary for a particular component (e.g., 2D, 1M, 1Y for two days, one month and one year).

Glossary

Appendix A—Defining New Components

We encourage sites to submit E3Rs for new components (or enhancements to existing components) that they believe will be useful on a national basis. The Health Summary Expert Panel (EP) will evaluate these requests. If the EP approves the request, these new components will be provided as patches or in a future version of the Health Summary package, depending on the priority that is given to the request.

Sites have the option to create new components for Health Summary to provide for their site-specific needs. This may be an enhancement to one of the components that Health Summary provides, it can be a totally new one that accesses DHCP data that Health Summary currently doesn't provide a component for, or it can be one to access non-DHCP supported (Class III software) packages.

NOTE: Please be aware that locally created components are not supported by Customer Service or Product Development at the IRMFOs (Information Resources Management Field Offices—formerly ISCs).

A Health Summary basket has been set up on SHOP,ALL where sites can put their locally developed component routines, in order to share this information with the rest of the DHCP community. We encourage you to take a look at what has already been done, as this may save you some time.

To access SHOP,ALL from FORUM:

1. Enter SHOP,ALL at your menu prompt and you'll be "logged" on to SHOP,ALL
2. Enter SURROGATE NAME: **SHOP,ALL**
3. Select Mailman Option: **Read Mail**
4. Enter the Health Summary mail basket.

We would also like you to add any components you have created locally to SHOP,ALL .

Format for Adding Components to SHOP,ALL

If you have components you would like to share, please use the following instructions/format:

1. Start the subject of the message with:

HS Vx.x -- brief subject/component name, where x.x will be the version

2. Include a description, sample of the report, and the routines to produce the report. The routine should be under the name-space assigned to your station; e.g., Madison=ALW, Cincinnati=AFR. Send to: SHOP,ALL@ISC-CHICAGO.VA.GOV

3. The message will go to the IN Basket at SHOP,ALL. The SHOP,ALL administrators will read the IN basket daily and save the message to a basket called Health Summary.

Hints for Developing local site components:

Before writing your own components, review some of the existing routines that have been written. Some good examples are the Patient Care Encounter, the Discharge Summary, or the Compensation and Pension components with the display routines in the Health Summary name space and the extract routines in the custodial package's name-space. We suggest that when creating new components you write two separate routines, one to extract the data and one to display the data. The display routine will call the extract routine and then display the data that was extracted.

Put any local routines you develop in your site's routine name-space. Local site components will be entered into the Health Summary Component (File #142.1) file with an internal file number beginning with your site number plus an additional 3 digits (e.g. At Salt Lake VAMC the first number would be 660001). This is to assure that nationally developed components are not overlaid by local site-developed components or vice versa. You will be prompted with a valid number when you enter a new component via the Create/Modify Health Summary Components option on the Health Summary Maintenance Menu.

For the extract routine, we recommend that you set the data to the ^TMP("name",\$J) global. The display routine will get the data from this global and display/print it. For the extract routine, you call it with

the DFN (Patient Internal File Number) variable. Optionally, you could set it up for time and occurrence limits. GMTSEND (Fileman date to be used as the ending date for displaying data, GMTSBEG (Fileman date to be used as the beginning date for displaying data, and GMTSNDM (Maximum number of occurrences to display) are the variables to use to allow for time and occurrence limits. In your extract routine, make sure the date of the data is between the dates in the GMTSBEG and GMTSEND variables. Use the GMTSNDM variable to make sure you only get the maximum number of records that were entered for the occurrence limits.

Depending on how the cross-references are set up in the file you are extracting data from, you may want to use the reverse \$ORDER M command or a cross-reference with an inverted Fileman date to get the most recent data first. When putting the data into the ^TMP global, you can invert the date (9999999-Date) as one of the subscripts. Or you can just include the date. When displaying the data, you will need to use the Reverse \$ORDER M command to get the most recent data to display first, if you don't use an inverted date subscript.

NOTE: Inverted Fileman dates mean that the date (e.g. 2950630) will be subtracted from 9999999. This would give you 7049369. Inverted Fileman dates are used to order the data from most recent data to oldest data. With the Reverse \$ORDER command, this convention won't necessarily need to be followed in the future. Prior to the Reverse \$ORDER M command, it was necessary to put the retrieved data in the ^TMP array with a subscript in Inverted Fileman Date/time in order that the user would see the most current data first in the Health Summary display.

Once you have extracted the data, you can print or display it. To allow for page breaks (and in the interactive display the capability to terminate or jump to another component), it is important that you issue the following commands before printing a line of data:

```
D CKP^GMTSUP Q:$D(GMTSQIT)
```

If this isn't done before each line is written, the length of the document may exceed the length of the page or screen. You also will not get the component header to display before displaying the data. It is important that no lines are written and the above commands are not issued if there is no data. For version 2.7 of Health Summary we implemented the capability to suppress component headers and "No Data Available" messages for Health Summary Types. In order to make this work, the CKP^GMTSUP routine was updated to set a flag that data was printed for a component. After the Health Summary driver processes each component for a Health Summary Type, the system checks to see if data was displayed for the component. If no

data was displayed, the driver determines whether or not to display the component header and “No Data Available” messages.

NOTE: For any local site components that were written prior to version 2.7, if you want to be able to suppress component headers and “No Data Available” messages, you will need to evaluate them and remove calls to BREAK^GMTSUP. This command should not be executed within your routines and you should not display the message that there was no data available. You also want to be sure not to execute CKP^GMTSUP until you have data to display.

Setting up a component to allow selection of specific items:

If you want to set up a component to allow selection of specific items, review one of the existing components that allows this capability, then follow these steps:

1. Add “GMTS” to the Application Group field for the file you want to select items from. You can do this through Fileman with the Edit File option under the Utility Functions option.
2. Add the pointed to file to the variable pointer Selection Item (field #4) sub-field in the multiple Structure (Field #1) field in the Health Summary Type (file #142) file. Do this through Fileman with the Modify File Attributes option.
3. When entering a new component to the Health Summary Component (file #142.1), be sure to enter the File to the Selection Item field. This can be done through the Create/Modify Health Summary Components option on the Health Summary Maintenance Menu.
4. In your application code, access the GMTSEG variable to determine the Selection Items for the file. The format of this array is GMTSEG(GMTSEGN,file number,Selection Item internal file number). GMTSEGN is the internal file number for the component. You can \$ORDER on the third subscript of the array and get the Selection Item’s internal file number. In your extract routine you will then limit the extract to only retrieve records for the specified Selection Items.

NOTE: Typically, users at sites should not modify files. However, in order to include new components with selection items, it is necessary to modify a file’s structure. Therefore, we recommend extreme caution while following the procedures above.

Create/Modify Health Summary Components

The following sample dialogue can assist you in creating your own local health summary components.

NOTE: When selecting components from the Ad Hoc Health Summary menu, entering "ALL" allows all components to be selected. If the first three characters of a HEADER NAME for a component are designated as "All," however, then only the defined component will be selected. Avoid conflicts and loss of functionality by not using "all" at the front of new header names.

```
Select Health Summary Maintenance Menu Option:      2 Create/Modify Health
Summary Components

Select COMPONENT: CHEM 7
  Are you adding 'CHEM 7' as a new HEALTH SUMMARY COMPONENT? Y (Yes)
    HEALTH SUMMARY COMPONENT NUMBER: 5000001//
Do you wish to duplicate an existing COMPONENT? YES//

CD  Advance Directive      ADT  ADT History          SHF  Health Factor Select
BADR Brief Adv React/All   EADT ADT History Expanded IM  Immunizations
ADR  Adv React/Allerg     CVF  Fut Clinic Visits   LH  Location of Home
CW  Clinical Warnings    CVP  Past Clinic Visits  NTM  Non Tabular Measurem
CP  Comp. & Pen. Exams   DEM  Demographics       MEAS Measurement Selected
CN  Crisis Notes        BDEM Brief Demographics  OD  Outpatient Diagnosis
DI  Dietetics           DS   Disabilities      OE  Outpatient Encounter
DCS  Discharge Summary  DD   Discharge Diagnosis  ST  Skin Tests
BDS  Brief Disch Summary DC   Discharges          TP  Treatments Provided
BA  Blood Availability  PRC  ICD Procedures    RXIV IV Pharmacy
BT  Blood Transfusions  OPC  ICD Surgeries     RXOP Outpatient Pharmacy
CH  Chem & Hematology   TR  Transfers         RXUD Unit Dose Pharmacy
SCLU Lab Cum Selected   TS  Treating Specialty  PLA  Active Problems
SCL1 Lab Cum Selected 1 MEDA Med Abnormal      PLL  All Problems
SCL2 Lab Cum Selected 2 MEDB Med Brief Report  PLI  Inactive Problems
SCL3 Lab Cum Selected 3 MEDC Med Full Captioned  PN  Progress Notes
SCL4 Lab Cum Selected 4 MEDF Med Full Report   BPN  Brief Progress Notes
CY  Cytopathology      MEDS Med (1 line) Summary  RI  Radiology Impression
EM  Electron Microscopy MHPE MH Physical Exam   SRI  Sel Rad Impression
MIC  Microbiology      ORC  Current Orders     RP  Radiology Profile
BMIC Brief Microbiology CM  Clinical Maintenance  RS  Radiology Status
LO  Lab Orders         CR  Clinical Reminders   SW  Social Work
BLO  Brief Lab Orders  ED  Education            SR  Surgery Reports
SP  Surgical Pathology EDL  Education Latest     BSR  Brief Surgery Rpts
SLT  Lab Tests Selected EXAM Exams Latest       VS  Vital Signs
ADC  Admission/Discharge HF  Health Factors       SVS  Vital Signs Selected

Enter COMPONENT to Duplicate:      SCLU  Lab Cum Selected
NAME: CHEM 7// <RET>
ABBREVIATION:  CH7
DESCRIPTION: . . .
  1>This component contains information extracted from the Lab package. Not
  2>only do time and maximum occurrence limits apply to this component, but
  3>the user is allowed to select any number of atomic Lab tests. Data
  4>presented include: collection date/time, specimen, test names with
  5>results and reference flags in columnar (horizontal) format. Comments will
  6>also be conditionally displayed, depending on the value of the DISPLAY
  7>COMMENTS ON LABS Health Summary Site Parameter. When comments are
  8>displayed, a lower case letter will be displayed to the left of the date
  9>for entries with comments. Comments will be displayed after all the
  10>results are displayed with comments being linked by the lower case letter.
  11>Up to 26 comments can be included.
EDIT Option: <RET>
```

```

PRINT ROUTINE: MAIN;GMTSLRSC//    ??
    This is the entry point and routine to be called when the component is
    run for a given health summary type.  Enter the line label, followed by
    a semi-colon, followed by the routine name (e.g., MAIN;GMTSLRSC).
PRINT ROUTINE: MAIN;GMTSLRSC//    <RET>
TIME LIMITS APPLICABLE: yes//    ??
    This field is set up by the programmer to indicate whether the routine to
    print this component will allow a time range to be applied to the data
    to be displayed in the Health Summary.
    Choose from:
        Y          yes
TIME LIMITS APPLICABLE: yes//    <RET>
MAXIMUM OCCURRENCES APPLICABLE: yes//    ??
    This field is used by the programmer to indicate whether the routine
    which prints this component is set up to handle maximum occurrence limits
    on the Health Summary.
    Choose from:
        Y          yes
MAXIMUM OCCURRENCES APPLICABLE: yes//    <RET>
HOSPITAL LOCATION APPLICABLE:    ??
    This field is used by the programmer to indicate whether the routine
    which prints this component is set up to handle the display of the
    hospital location abbreviation on the Health Summary.
    Choose from:
        Y          yes
HOSPITAL LOCATION APPLICABLE:    <RET>
ICD TEXT APPLICABLE:    ??
    This field is used by the programmer to indicate whether the routine
    which prints this component is set up to handle the display of
    standardized ICD text on the Health Summary.
    Choose from:
        Y          yes
ICD TEXT APPLICABLE:    <RET>
PROVIDER NARRATIVE APPLICABLE:    ??
    This field is used by the programmer to indicate whether the routine
    which prints this component is set up to handle the display of the
    provider narrative on the Health Summary.
    Choose from:
        Y          yes
PROVIDER NARRATIVE APPLICABLE:    <RET>
LOCK:    ??
    To be used for components such as psychology test results
    Restricts viewing access under Print Health Summary Menu
LOCK:    <RET>
DEFAULT HEADER NAME:    ??
    The DEFAULT HEADER NAME will appear in menus and component headers in
    preference to the COMPONENT NAME, but NOT in preference to the local
    HEADER NAME, if it is defined for that component within a given Health
    Summary Type.  If defined the local HEADER NAME will have precedence
    within a given Health Summary Type.
DEFAULT HEADER NAME:    Chem 7
Select SELECTION FILE:    ??

Choose from:
    LABORATORY TEST

    Enter the names or numbers of the files from which selection items
    (e.g., lab tests (file 60), radiology procedures (file 71), or vital
    signs (file 120.51)) may be chosen for this component.

Choose from:
    60          LABORATORY TEST
    71          RADIOLOGY PROCEDURES
    120.51      VITAL TYPE
    811.9       PCE REMINDER/MAINTENANCE ITEM
    
```

```

9001017          HEALTH SUMMARY MEAS PANEL
9999999.64       HEALTH FACTORS

Select SELECTION FILE:  60  LABORATORY TEST
...OK? Yes//  <RET>  (Yes)

SELECTION FILE: LABORATORY TEST//  <RET>
SELECTION COUNT LIMIT:  ??
Enter the MAXIMUM number of selection items which may be selected for
any single appearance of this component in a given health summary type.
That is, a value of 7 will allow the user to select as many as seven
items, etc.
SELECTION COUNT LIMIT:  7
Select SELECTION FILE:  <RET>

ADD new Component to the AD HOC Health Summary? NO//  y  YES

>>> EDITING the GMTS HS ADHOC OPTION Health Summary Type
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA:  ??
This field allows health summary types to be set up to suppress printing
of components that contain no data when health summaries are printed from
a device. When health summary types are displayed on the screen,
components that contain no data will still be displayed with a "No data
available" message. This is done to eliminate any confusion that may
occur when jumping between components.
Choose from:
  Y          yes
  N          no
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA:  y  yes

Do you wish to review the Summary Type structure before continuing? NO//  <RET>
Select COMPONENT: CHEM 7//  <RET>  CH7
SUMMARY ORDER: 395//  395
OCCURRENCE LIMIT:  5
TIME LIMIT:  21d
HOSPITAL LOCATION DISPLAYED:  y  yes
ICD TEXT DISPLAYED:  ??
Indicate whether the long form, short form, code only, text only, or no
form of ICD diagnosis text should appear in applicable components.
Choose from:
  L          long text
  S          short text
  C          code only
  T          text only
  N          none
ICD TEXT DISPLAYED:  c  code only
PROVIDER NARRATIVE DISPLAYED:  y  yes
HEADER NAME: Chem 7//  <RET>

No selection items chosen.

Select new items one at a time in the sequence you want them displayed.
You may select up to 7 items.

Select SELECTION ITEM:  CHEM 7

Searching for a LABORATORY TEST  CHEM 7
...OK? Yes//  <RET>  (Yes)

Select the tests which you wish to include, in the
sequence in which you wish them to appear.

-- CHEM 7 --

1  CREATININE          5  CHLORIDE

```

```

2   UREA NITROGEN           6   CO2
3   SODIUM                  7   GLUCOSE
4   POTASSIUM               8   ANION GAP

Select 1 - 7 LAB TEST(s): 1-7//   1-5,8   CREATININE   UREA NITROGEN   SODIUM
                                POTASSIUM   CHLORIDE   ANION GAP

Select SELECTION ITEM:
Please hold on while I resequence the summary
order.....
.....

>>> Returning to Create/Modify Health Summary Component Option.

Select COMPONENT:   <RET>
    
```

Next, we'll illustrate the case where a Nuclear Medicine component, created on site, is to be added to the component file and Ad Hoc Summary Type.

```

Select Health Summary Maintenance Menu Option:   2 Create/Modify Health Summary
Components

Create/Modify Health Summary Components
Select COMPONENT:   NUCLEAR MEDICINE
Are you adding 'NUCLEAR MEDICINE' as
a new HEALTH SUMMARY COMPONENT?   Y (Yes)
HEALTH SUMMARY COMPONENT NUMBER: 5000002//   <RET>
Do you wish to duplicate an existing COMPONENT? YES//   NO
NAME: NUCLEAR MEDICINE//   <RET>
PRINT ROUTINE:   ??
This is the entry point and routine to be called when the component is
run for a given health summary type. Enter the line label, followed by
a semi-colon, followed by the routine name (e.g., MAIN;GMTSLRC).
PRINT ROUTINE:   NUC;A5AMED
ABBREVIATION:   NUC
DESCRIPTION:
1> This component, created at <site name>, prints nuclear medicine
2> report data, including: Study date time, Radiologist, Report Status,
3> Impression, and Report text.
4> <RET>
EDIT Option:   <RET>
TIME LIMITS APPLICABLE:   y yes
MAXIMUM OCCURRENCES APPLICABLE:   y yes
HOSPITAL LOCATION APPLICABLE:   <RET>
ICD TEXT APPLICABLE:   <RET>
PROVIDER NARRATIVE APPLICABLE:   <RET>
LOCK:   <RET>
DEFAULT HEADER NAME:   Nuclear Medicine
Select SELECTION FILE:   <RET>

ADD new Component to the AD HOC Health Summary? NO//   y YES

>>> EDITING the GMTS HS ADHOC OPTION Health Summary Type
SUPPRESS PRINT OF COMPONENTS WITHOUT DATA: yes//   <RET>

Do you wish to review the Summary Type structure before continuing? NO//   <RET>
Select COMPONENT: NUCLEAR MEDICINE//   <RET> NUC
SUMMARY ORDER: 400//   400
OCCURRENCE LIMIT:   5
TIME LIMIT:   21d
HOSPITAL LOCATION DISPLAYED:   y yes
ICD TEXT DISPLAYED:   ??
    
```

```

Indicate whether the long form, short form, code only, text only, or no
form of ICD diagnosis text should appear in applicable components.
Choose from:
  L      long text
  S      short text
  C      code only
  T      text only
  N      none
ICD TEXT DISPLAYED:  c  code only
PROVIDER NARRATIVE DISPLAYED:  y  yes
HEADER NAME: Nuclear Medicine//  <RET>
Please hold on while I resequence the summary order.....
.....

>>> Returning to Create/Modify Health Summary Component Option.
Select COMPONENT:  <RET>

```

Appendices

Appendix B—Checksum Routines

GMTS	9747615	GMTS1	9107723
GMTS2	1686893	GMTSADH	7009924
GMTSADH1	9118153	GMTSADH2	8921291
GMTSADH3	4175388	GMTSADH4	2108172
GMTSADHC	7616551	GMTSADOR	5770178
GMTSALG	13299334	GMTSALGB	3649701
GMTSAMIE	2215141	GMTSCI	980795
GMTSCM	6771561	GMTSCW	8466205
GMTSDA	7935436	GMTSDCB	3376310
GMTSDD	5832737	GMTSDEM	8355003
GMTSDEMB	1645478	GMTSDGA	3278741
GMTSDGAL	7480178	GMTSDGA2	5406373
GMTSDGC1	5335387	GMTSDGC2	3280399
GMTSDGCH	6109698	GMTSDGD	2236947
GMTSDGH	2898086	GMTSDGP	5958742
GMTSDS	2014917	GMTSDSB	1887589
GMTSDVR	9357098	GMTSENV	527430
GMTSFH	6355772	GMTSI001	6797667
GMTSI002	8625906	GMTSI003	7915035
GMTSI004	7496079	GMTSI005	9611811
GMTSI006	9190966	GMTSI007	7703599
GMTSI008	4005876	GMTSI009	3932193
GMTSI00A	827350	GMTSI00B	8455149
GMTSI00C	7584757	GMTSI00D	8910779
GMTSI00E	7448609	GMTSI00F	2867454
GMTSI00G	8852473	GMTSI00H	8717091
GMTSI00I	8773516	GMTSI00J	9224995
GMTSI00K	9276724	GMTSI00L	8906270
GMTSI00M	8948291	GMTSI00N	8903831
GMTSI00O	9109697	GMTSI00P	8788001
GMTSI00Q	9144600	GMTSI00R	8661231
GMTSI00S	9040355	GMTSI00T	8440721
GMTSI00U	8849266	GMTSI00V	8597654
GMTSI00W	8347201	GMTSI00X	8589121
GMTSI00Y	2513711	GMTSI00Z	951613
GMTSI010	12236555	GMTSI011	10099099
GMTSI012	10044917	GMTSI013	6048930
GMTSI014	6222248	GMTSI015	6848123
GMTSI016	8673195	GMTSI017	7578064
GMTSI018	6048832	GMTSI019	5845546
GMTSI01A	7616684	GMTSI01B	7997413
GMTSI01C	4992646	GMTSI01D	899861
GMTSINI1	4982983	GMTSINI2	5232640
GMTSINI3	16807836	GMTSINI4	3357812
GMTSINI5	773825	GMTSINIS	2215261
GMTSINIT	10511864	GMTSLOAD	5796287
GMTSLRA	6876199	GMTSLRAE	11147933
GMTSLRB	2250319	GMTSLRBE	3672773
GMTSLRC	3788772	GMTSLRCE	5397241
GMTSLRCP	12992921	GMTSLREE	6175432
GMTSLREM	5357355	GMTSLRM	10576209
GMTSLRML	5092747	GMTSLRMB	8141523
GMTSLRME	7612887	GMTSLRMX	7993355
GMTSLROB	1646167	GMTSLROE	6516628
GMTSLROS	2358998	GMTSLRPE	6517490
GMTSLRS	4721162	GMTSLRS7	7478778
GMTSLRSC	7505823	GMTSLRSE	3321038
GMTSLRT	2843052	GMTSLRTE	1320704
GMTSLTR	2903951	GMTSLTR2	3282162
GMTSMCMA	7527516	GMTSMCPZ	3705188
GMTSMCZZ	5276229	GMTSMHPE	8497501
GMTS0001	8057336	GMTS0002	6065150

Appendices

GMTSO003	7512952	GMTSO004	7684644
GMTSO005	7812945	GMTSO006	7948804
GMTSO007	7635764	GMTSO008	7443333
GMTSO009	7739191	GMTSO010	7582026
GMTSO011	8030504	GMTSO012	8409618
GMTSO013	7775470	GMTSO014	7954689
GMTSO015	7423432	GMTSO016	7911113
GMTSO017	7145833	GMTSO018	7647663
GMTSO019	7562703	GMTSO020	7805175
GMTSO021	7281432	GMTSO022	7825234
GMTSO023	7784074	GMTSO024	725714
GMTSONI1	1703362	GMTSONI2	82866
GMTSONI3	10576628	GMTSONIT	935085
GMTSORC	4886475	GMTSPCD	3405698
GMTSPD	5306590	GMTSPD2	1434592
GMTSPDX	6721830	GMTSPDXZ	4192536
GMTSPL	6102762	GMTSPLST	4003268
GMTSPLSZ	3503422	GMTSPN	9532427
GMTSPN1	7382807	GMTSPN2	6481703
GMTSPNB	2073409	GMTSPNE	3130541
GMTSPNJ	4118293	GMTSPNS	3368984
GMTSPOS	17203788	GMTSPOS	25930086
GMTSPOST	14759909	GMTSPP	10637870
GMTSPREI	2805782	GMTS PSG	2167928
GMTSPSI	4674521	GMTSPSO	4783059
GMTSPSZO	5518919	GMTSPXEP	2755760
GMTSPXFP	1756378	GMTSPXHP	506691
GMTSPXHR	4148787	GMTSPXIM	1706374
GMTSPXM	1127679	GMTSPXMP	3249792
GMTSPXOP	6456010	GMTSPXSK	1702860
GMTSPXTP	2970412	GMTSPXU1	3092718
GMTSPXU	25512565	GMTSPXXP	1689771
GMTSRAD	3215705	GMTSRAE	6627828
GMTSRAI	2397390	GMTSRAS	5549827
GMTSRASP	2974091	GMTSRI	883054
GMTSRM	8928900	GMTSRM1	8604086
GMTSRM1A	2432893	GMTSRM2	1249750
GMTSRM3	5851502	GMTSRM4	2033224
GMTSRM5	7232509	GMTSRN	4546519
GMTSRO	11940993	GMTSROB	2464741
GMTSSOWK	252357	GMTSSOWZ	8112766
GMTSU	4614432	GMTSUP	8491844
GMTSUP1	12410735	GMTSVS	3389199
GMTSVSS	3877801		

Appendix C—Release Notes

New components which display information gathered by the Patient Care Encounter (PCE) package

- Clinical Maintenance
- Clinical Reminders
- Education
- Education Latest
- Exams latest
- Health Factors
- Health Factors Select
- Immunizations
- Location of Home
- Measurement Selected
- Non-Tabular Measurements
- Outpatient Diagnosis
- Outpatient Encounter
- Skin Tests
- Treatments Provided

Other new components included in Health Summary V. 2.7

- Electron Microscopy component
- Four new Medicine components for Medicine V. 2.2 (E3R#s 581, 694, and 4545,)
- A Mental Health physical exam component
- Compensation & Pension Exam component (E3R# 983)
- Social Work component (E3R# 3509)
- Expanded ADT History Component that consolidates into one component the D/C Diagnosis, Procedures, LOS, Treating Specialty, and Transfer information (E3R# 814)
- Brief Adverse Reaction/Allergy component

New Features

- An option has been added, Range of Dates Patient Health Summary, that allows data to be printed for a given date range. The user can select the beginning or ending date and a Health Summary type. For components within the Health Summary type that allow time limits, only data within the date range chosen by the user will be seen. (E3R# 4502)
- An option has been added, Visit Patient Health Summary, that allows the data to be printed for the date of a given outpatient visit or date range for a given inpatient visit.
- An option has been added, Batch Print of All Clinics by Visit Date, to interactively print Health Summary types and clinics defined by the

Hospital Location parameters. The user can choose the date of the clinics and specify when to queue the print. (E3R# 862)

- The nightly batch job has been enhanced to recognize non-workdays (weekends and holidays). Data will not be printed out on non-workdays. For example, if you want a Health Summary type printed out for Monday clinics one day in advance, it will now print on the previous Friday rather than on Sunday. (E3R#s 1799 and 4213)
- The Dietetic component now includes Dietetic Encounters. (E3R#s 763 and 765)
- A site parameter has been added to allow sites to specify whether or not to print bar codes on Action Profiles which are queued to print with Health Summaries (dependent on whether the desired printer is set up to print bar codes). (E3R# 5778, NOIS# NOP-1294-10102)
- Users can now print Action Profiles in tandem with Health Summary, by patient, as well as by clinic or location. (E3R# 6568)
- The Radiology components have been modified to print only Radiology impressions that have been verified. (E3R# 5880, NOIS# BRX-1194-10351)
- The Problem List components have been enhanced to display problems in the same order as in the Problem List package. These components will also include the Comment field. Sites may also specify the format for ICD9 text and Provider Narrative. (E3R#s 5546 and 6004)
- The Microbiology component has been expanded to include comments, AFB smear results, test names, and smear/prep results. (E3R#s 4069, 5480, and 6394)
- When no data is available for components that allow for the selection of certain types of data, the “No Data Available” message will now specify the selection items also. (E3R# 4313)
- Users can now select multiple locations to queue to print at the same time for the Hospital Location option. (E3R# 1244)
- The MAS Admission/Discharge component now includes Scheduled Admissions. (E3R# 1283)

- When no data is available for a component in a Health Summary type, the Health Summary Type can now be set up to suppress the “No Data Available” message and component header for printed (but not displayed) health summaries. (E3R# 1729)
- The Outpatient Pharmacy component has been enhanced to display only active medications. This can be done by excluding the time limit for the component. (E3R#s 2565 and 3860)
- Users can now pick multiple patients prior to printing a Health Summary type. (E3R# 4928)
- The Lab Cum Selected Components results will now be displayed according to the print code that is set up for a particular test result, to be consistent with the way results are displayed in the Lab package. (E3R# 5424)
- Word-wrap problems with the Progress Notes component have been corrected, to allow “full-screen” display. (NOIS#s TOM-0795-42380 and LOU-1293-30053)
- The wording for a prompt in the Ad Hoc Health Summary was changed to make it easier for users to understand how to change occurrence limits, time limits or add items. (E3R# 6522)

Old wording:

Select Additional or Existing COMPONENT(S) to ADD or EDIT:

New wording:

Select COMPONENT(S) to EDIT or other COMPONENT(S) to ADD:

- An API — MAIN^GMTSADOR — was created to allow programmers to define components and defaults through the Ad Hoc menu interface and print health summaries for a programmer-specified patient and device. Use of this API by other packages requires a Database Integration Agreement. (E3R# 6734)
- Display of Lab components was changed back to the way it was in Health Summary V. 1.2 to base occurrence limits on total number of occurrences rather than on each atomic test of a panel. (NOIS# MAD-0494-40110 and E3R# 0293)

NOTE: Other issues and problems identified in NOIS calls (BIL-0895-31476, MAC-0795-60037, MAD-0695-40375, BOI-0595-50198, TOG-10186-30068, REN-0495-60020, AMA-

0395-70286, and AUG-0595-30068) have also been resolved with this version of Health Summary (these are mostly technical bugs that have been fixed).

Changes to Files

New fields

Health Summary Type File (#142)

- .08 SUPPRESS COMP WITHOUT DATA

Three new fields in the STRUCTURE multiple field (#142.01):

- 6 HOSPITAL LOCATION DISPLAYED
- 7 ICD TEXT DISPLAYED
- 8 PROVIDER NARRATIVE DISPLAYED

Health Summary Component File (#142.1)

- 10 HOSPITAL LOCATION APPLICABLE
- 11 ICD TEXT APPLICABLE
- 12 PROVIDER NARRATIVE APPLICABLE

Health Summary PARAMETERS File (#142.99)

- .05 INCLUDE BAR CODES ON ACT PROF

Fields deleted

from the Health Summary Type file (#142).

- 2 ICD TEXT DISPLAYED
- 3 PROVIDER NARRATIVE
- 4 MEASUREMENT PANEL
- 5 LAB TEST PANEL
- 6 SURVEILLANCE PANEL

Fields Modified

Health Summary PARAMETERS File (#142.99)

- .02 PROMPT FOR ACTION PROFILE
- .03 INCLUDE COMMENTS FOR LABS
- .04 SPOOL DEVICE
- .05 INCLUDE BAR CODES ON ACT PROF

Appendix D—Health Summary Security

Health summaries produced by this package are highly confidential and should be treated with the same security precautions as a patient's medical record.

Menu Access

The Health Summary Overall Menu [GMTS MANAGER] contains four menus:

1. GMTS USER
2. GMTS ENHANCED USER
3. GMTS COORDINATOR
4. GMTS IRM/ADPAC MAINT MENU

Assign these menus as follows. (See the *Health Summary User Manual* for complete user descriptions of menus and options):

1. Give the Health Summary Menu [GMTS USER] menu to users who only need to print or display health summaries.
2. Give the Health Summary Enhanced Menu [GMTS ENHANCED USER] menu to users who need to create, modify, or delete their *own* health summary types, in addition to printing health summaries.
3. Give the Health Summary Coordinator's Menu [GMTS COORDINATOR] menu to users who need to print or display health summaries, and who will also need to create, modify, or delete health summary types, and set up nightly batch printing at specified locations.
4. Give the Health Summary Maintenance Menu [GMTS IRM/ADPAC MAINT MENU] to IRM staff or the Clinical Coordinator for any implementation and maintenance issues in Health Summary. This menu contains options to disable/enable health summary components for selection/display, create/modify new health summary components, edit and rebuild the Ad Hoc Health Summary Type, resequence the components in a health summary type, create/modify a health summary type, delete a health summary type, and edit health summary site parameters.

Security

Security is established via a combination of the GMTSMGR and GMTS VIEW ONLY security keys and the OWNER and LOCK fields in File 142 (Health Summary Type file).

GMTSMGR Security Key:

The GMTSMGR security key allows holders to override the LOCK and OWNER access restrictions for editing health summary types. The IRM Chief and Health Summary Coordinators are likely holders of this key.

This security key allows the holder to edit general usage health summary types which are locked with the GMTSMGR key. It also provides master edit access to all other health summary types.

GMTS VIEW ONLY Security Key:

The GMTS VIEW ONLY key allows holders to view a health summary on the CRT. Holders may use all of the familiar Health Summary options but will not be prompted for a device for printing paper copies of the health summary.

Health Summary Type File

Owner

Owners of health summary types have edit access to health summary types they have created. The owner is designated when a health summary type is created. Usually the creator of a health summary type is automatically designated as its owner. However, if creators of health summary types hold the GMTSMGR key, they may designate another person as the owner. If you are assigned the GMTSMGR key, you are *not* automatically designated as the owner. You may, however, enter your name as the "owner."

Lock

This field can be used to specify a security key and is designated when the health summary type is created. This lock gives edit access for that health summary type to anyone who holds the matching security key. For example, someone creating a Pathology Health Summary Type may want to enter LRSUPER as the lock, thereby giving edit access to

any holder of the LRSUPER security key. The four health summary types exported with the Health Summary package have the GMTSMGR lock.

A lock does not restrict an owner—the lock gives permission. If a health summary type is locked, the owner of the health summary type is not required to have the key to access it; however, all other users must have the key.

Health Summary Component File

Lock

You may restrict any component from view by entering the name of a valid security key in the LOCK field for a given component. For example, if your site decides that only holders of the LRSPUSER key should be allowed to view the Surgical Pathology Health Summary component, then entering the name of that security key in the LOCK field of that component's record will enforce that policy.

VA FileMan File Protection

The Health Summary package files are exported with the following file protection provided by VA FileMan:

File Number	Name	DD	RD	WR	DEL	LAYGO	AUDIT
File 142	Health Summary Type	@				@	@
File 142.1	Health Summary Components	@		@	@	@	@
File 142.99	Health Summary Parameters	@	@	@	@	@	@

Appendices

Index

%INDEX, 46
^^ jump, 8
^LOOP, 11

—A—

Active medications, 65
Ad Hoc Health Summaries, 7, 47
Ad Hoc Summary Driver, 30
Ancillary packages, 1
Appendix A—Defining New Components, 51
Appendix B—Checksum Routines, 61
Appendix C—Release Notes, 63
Appendix D—Health Summary Security, 67

—B—

Bar codes, 64
Batch processing, 8

—C—

Callable Routines, 29
Checksum Routines, 61
Components, 47
Components and Types, 1
Create/Modify Health, 3
Create/Modify Health Summary Components, 55
Create/Modify Health Summary Type, 4
Customized, 11
Customized Health Summary Types, 11
Customizing the AD HOC Health Summary Type,
11

—D—

Database Integration Agreements, 35
Default, 47
Default parameters, 3
Defining New Components, 51
Definitions, 1
Dietetic Encounters, 64
Disable/Enable Health Summary Componen, 3
DISABLED components, 3

—E—

E3Rs, 51
Edit Ad Hoc Health Summary Type, 11
Edit Health Summary Site Parameters, 4
Encounter Form Utilities, 8
Enhanced patient look-up, 7
External Relations, 33

—F—

Files and Globals List, 19

Function, 23

—G—

Generating Online Documentation, 45
Globals, 19
Glossary, 47
GMTS, 29
GMTS COMPONENT NAME, 23
GMTS TASK STARTUP, 8
GMTS TYPE DELETE, 27
GMTSADOR, 30
GMTSDVR, 30, 31
GMTSMGR security key, 4
GMTSU, 31, 32
GMTSUP, 32

—H—

Headers and Abbreviations, 9
Health Summary Alternate Drive, 30, 31
HEALTH SUMMARY COMPONENT FILE
(142.1), 26
Health Summary files, 19
Health Summary Maintenance Menu, 3
Health Summary Security, 67
Health Summary Type file, 1
HEALTH SUMMARY TYPE FILE (142), 25
Hospital Location, 47
Hospital Location parameters, 64

—I—

ICD Text Displayed, 47
INCLUDE BAR CODE ON ACT PROFILES, 4
INCLUDE COMMENTS ON LABS, 4
Information Menu option, 9
Integrated Billing Package, 8

—K—

Key Variables, 41, 42

—L—

Locks and Security, 48, 68

—M—

Maintenance Menu, 3
Microbiology component, 64
Modify an existing health summary type, 4
Multiple locations, 64

—N—

Namespace, 15

Appendices

Nightly batch job, 64
Nightly Batch Processing, 8
No Data Available, 65
Non-destructive, 48
Non-destructive, read-only component routines, 33
Non-workdays, 64

—O—

occurrence limits, 11, 48
OE/RR Interface, 7
ORWARD key, 8
OUT OF ORDER MESSAGE, 3
Owner, 48

—P—

Packages Providing Data, 1
Pagination Utilities, 32
PDX Transmission of Health Summaries, 2
Permanent health summaries, 2
Print Manager, 8
Printing Health Summaries, 2
Problem List components, 64
PROMPT FOR ACTION PROFILE, 4
Provider Narrative, 48
Purging and Archiving, 27

—Q—

Queuing, 7

—R—

Radiology components, 64
Range of Dates Patient Health Summary, 63
Rebuild Ad Hoc Health Summary Type, 3
Release Notes, 63
Request for Health Summary Type, 11
Resequence a Health Summary Type, 3
Routine Descriptions, 15
Routines, 45

—S—

Schedule/Unschedule Options, 8
Scheduled Admissions, 64
Security, 67
SHOP,ALL, 51
SPOOL DEVICE, 4
Storage, 27
Summary Order, 48
Summary Type, 49

—T—

TASK STARTUP, 8
Time and Occurrence limits, 3
Time limits, 11, 49

—V—

Visit Patient Health Summary, 63