

# Introduction

The Veterans Health Administration (VHA) developed the Statistical Analysis of Global Growth (SAGG) Project in order to obtain more accurate information regarding the current and future Veterans Health Information Systems and Technology Architecture (**VISTA**) database growth rates at the VA Medical Centers (VAMCs).

The purpose of this manual is to provide information about the Statistical Analysis of Global Growth (SAGG) Project Version 1.8. This manual defines the use of this package as a resource to IRM staff responsible for capacity management functions at the site. It also highlights the use of the options that are available both locally at the site and nationally on the FORUM system.

## Introduction

## Functional Description

SAGG is a fully automated support tool developed by the Capacity Management (CM) team, which entails the monthly capture of global database, package and file size information from participating sites.

This version of the software can be installed over any previous versions of SAGG without any adverse problems. The current version of the package is compatible with all current operating system platforms at the medical centers and has minimal impact on IRM support staff. This package operates on DSM, MSM and OpenM-NT system platforms.

Installing the SAGG Project software creates the collection process mechanism and other necessary components of the package. The fully automated data collection cycle entails capturing all production global, package and file specifics at the site into a temporary ^XTMP("KMPS") collection global. Once collected, the information is converted into an electronic mail message that is automatically transferred via network mail and merged into a Capacity Management (CM) National Database. The temporary collection global is then deleted from the site's system. The site also receives a summary of the global statistical data in the form of an electronic turn-around message.

IRM staff utilizes the options that are locally available at the site to manage this package. IRM staff responsible for capacity management tasks at the site can also use the options available on the FORUM system. The options on FORUM allow them to review growth trends of their database, package and file size.

Functional Description

# Use of the Software

## **Package Management**

The SAGG Project package is managed locally by IRM staff through the SAGG Project Manager Menu [KMPS SAGG MANAGER], which is located under the Capacity Management menu [XTCM MAIN]. The XTCM MAIN menu is found under the Eve menu and should be assigned to IRM staff member(s) who support(s) this package and other capacity management tasks.

Additionally, these same IRM staff member(s) should also have the SAGG Access to Albany CIOFO menu [A1B9 IFO FORUM TO IFO ALBANY] assigned to themselves on the FORUM system. This menu allows them to review growth trends of their database, package and file size.



## SAGG Project Manager Menu

This section of the manual covers the SAGG Project Manager Menu [KMPS SAGG MANAGER] that is located locally at the site. This is broken down by the individual options with a discussion of each option and examples of user interaction. This portion should be thought of and used as a reference guide to the local options within the software.

|    |   |
|----|---|
| EF | Edit SAGG Project File [KMPS SAGG FILE]               |
| EM | Edit KMPS-SAGG Mail Group [KMPS SAGG MAIL]            |
| SP | Stop SAGG Collection [KMPS SAGG STOP]                 |
| SS | Status of SAGG Collection Routines [KMPS SAGG STATUS] |

## **Edit SAGG Project File** **[KMPS SAGG FILE]**

This option allows you to edit the information contained in the SAGG PROJECT file (#8970.1). Use this option to input the location information for the temporary ^XTMP global (if applicable to your system's configuration) and the names and location of all production volume sets on the system.

**Note:** The help text that is displayed varies depending on the operating system platform.

OpenM-NT sites will only see prompts that pertain to their configuration. OpenM-NT sites will not see the prompt for the ^XTMP global location nor the prompt for the UCI of the volume set to monitor.

### **Prompt/User Response:**

```
Please specify the Volume Set and UCI which will hold
the ^XTMP("KMPS") global.
```

```
XTMP GLOBAL LOCATION: VAA// ??
```

```
This field will contain the name of the Volume Set (for DSM)
where the temporary collection global (^XTMP) is located at
this site.
```

```
If this is an OpenM-NT site, leave BLANK.
```

```
XTMP GLOBAL LOCATION: VAA// <RET>
```

```
XTMP GLOBAL UCI: VAH// ??
```

```
This field will contain the name of the UCI (for DSM) where
the temporary collection global (^XTMP) is located at this
site. If left BLANK, the collection software will default
to the value of the first data piece in the ^%ZOSF("PROD")
global node.
```

```
If this is an OpenM-NT site, leave BLANK.
```

```
XTMP GLOBAL UCI: VAH// <RET>
```

```
Specify the Volume Sets which hold your VistA production globals:
```

```
For example:
```

```
For DSM => ROU, VAA, VBB, VCC ... Vxx
```

```
For MSM => FDA, FDB, FDC ... FDx
```

```
For OpenM-NT => W:\VAA, W:\VBB, W:\VCC ... V:\Vxx
```

```
Do NOT specify 'scratch/test/training' Volume Sets (i.e., ZAA, UTL,
TST, etc.).
```

## Edit SAGG Project File– Prompt/User Response (continued):

```
Select VOLUME SET TO MONITOR: VCC// ??
```

Choose from:

```
ROU
VAA
VBB
VCC
```

This field will contain the name of the Directory (for OpenM-NT) or the Volume Sets (for DSM) that the site wants to monitor with the SAGG Project collection routines. The site should specify only the Directories or Volume Sets which hold their VistA production globals:

For example:

```
For OpenM-NT => W:\VAA, W:\VBB, W:\VCC ... V:\Vxx
For DSM      => ROU, VAA, VBB ... Vxx
```

The site should NOT specify 'scratch/test/training' Directories or Volume Sets (e.g., ZZA, UTL, TST, etc.).

```
Select VOLUME SET TO MONITOR: VCC// <RET>
VOLUME SET TO MONITOR: VCC// ??
```

This field will contain the name of the Directory (for OpenM-NT) or the Volume Sets (for DSM) that the site wants to monitor with the SAGG Project collection routines. The site should specify only the Directories or Volume Sets which hold their VistA production globals:

For example:

```
For OpenM-NT => W:\VAA, W:\VBB, W:\VCC ... V:\Vxx
For DSM      => ROU, VAA, VBB ... Vxx
```

The site should NOT specify 'scratch/test/training' Directories or Volume Sets (e.g., ZZA, UTL, TST, etc.).

```
VOLUME SET TO MONITOR: VCC// <RET>
UCI: VAH// ??
```

This field will contain the name of the UCI that the SAGG Project collection routines will monitor for the given VOLUME SET TO MONITOR. If left BLANK, the collection software will default to the value of the first data piece in the ^%ZOSF("PROD") global node.

If this is an OpenM-NT site, leave BLANK.

```
UCI: VAH// <RET>
```

```
Select VOLUME SET TO MONITOR: <RET>
```

## **Edit KMPS-SAGG Mail Group**

### **[KMPS SAGG MAIL]**

This option allows you to edit the KMPS-SAGG mail group. Use this option to input the names of IRM staff that will receive messages alerting them of the completion of or problems with the data collection phase. Also, this mail group receives all SAGG turn-around messages.

#### **Prompt/User Response:**

Specify the users that will receive SAGG notification messages.

Select MEMBER: DOE, JOHN// <RET>

## Stop SAGG Collection [KMPS SAGG STOP]

This option informs the SAGG Project collection routines to begin an orderly shutdown process. Each collection routine stops after reaching an appropriate break point.

Note: The information that is displayed varies depending on the operating system platform.

OpenM-NT sites will only see information that pertains to their configuration. OpenM-NT sites will not see the information for the ^XTMP global location nor the information for the UCI of the volume set that is being monitored.

### Prompt/User Response:

```

SAGG Project Status
Version 1.8

The 'SAGG Master Background Task' [KMPS SAGG REPORT] is
Scheduled to run as Task ID 3883 on JUN 26, 1998 @ 19:00 mailto:1998@19:00
every 28 days.

SAGG Project collection routines will monitor the following:

VAH,ROU - VAH,VAA - VAH,VBB - VAH,VCC

XTMP("KMPS") Global Location: VAH,VAA

The temporary collection global (i.e., ^XTMP("KMPS")) has data.

The SAGG Project routines are still running on:

ROU, VAA, VBB, VCC

Press <RETURN> to continue: <RET>

Do you wish to manually STOP the SAGG Project collection routines
(Y/N)? N// ?

Enter either 'Y' or 'N'.

Do you wish to manually STOP the SAGG Project collection routines (Y/N)? N// YES

The SAGG Project collection routines have been notified to
begin an orderly shut-down process.

```

## Status of SAGG Collection Routines [KMPS SAGG STATUS]

This option displays the current status of the SAGG Project collection routines. This option identifies the volume sets that will be monitored for global growth analysis. Additionally, this option shows the reschedule frequency of the SAGG Master Background Task [KMPS SAGG REPORT] and whether the SAGG Project collection routines are currently running.

Note: The information that is displayed varies depending on the operating system platform.

OpenM-NT sites will only see information that pertains to their configuration. OpenM-NT sites will not see the information for the ^XTMP global location nor the information for the UCI of the volume set that is being monitor.

### Prompt/User Response:

```
SAGG Project Status
Version 1.8

The 'SAGG Master Background Task' [KMPS SAGG REPORT] is
Scheduled to run as Task ID 3883 on JUN 26, 1998 @ 19:00 mailto:1998@19:00
every 28 days.

SAGG Project collection routines will monitor the following:

    VAH,ROU - VAH,VAA - VAH,VBB - VAH,VCC

XTMP("KMPS") Global Location: VAH,VAA

The temporary collection global (i.e., ^XTMP("KMPS")) has data.

The SAGG Project routines are still running on:

    ROU, VAA, VBB, VCC

Press <RETURN> to continue:
```

## SAGG Master Background Task [KMPS SAGG REPORT]

This option is not assigned to any menu. This option is scheduled through TaskMan to start SAGG Project's master collection routine in the background. This option should be rescheduled with the Schedule/Unschedule Options [XUTM SCHEDULE] under the TaskMan Management menu for every 28 days to ensure same day-of-week collection cycles. If this option does not execute properly, a warning message is sent to the KMPS-SAGG mail group.

The example below shows a typical display when using the Schedule/Unschedule Options.

### Prompt/User Response:

```

Select OPTION to schedule or reschedule: KMPS SAGG REPORT <RET>   (R)

                                Edit Option Schedule
Option Name: KMPS SAGG REPORT
Menu Text:  SAGG Master Background Task                TASK ID: 3883
-----
QUEUED TO RUN AT WHAT TIME: JUN 26,1998@19:00
DEVICE FOR QUEUED JOB OUTPUT:
QUEUED TO RUN ON VOLUME SET:
RESCHEDULING FREQUENCY: 28D
TASK PARAMETERS:
SPECIAL QUEUEING:

COMMAND:                                Press <PF1>H for help   Insert

```



## SAGG Access to Albany CIOFO

This section of the manual covers the SAGG Access to Albany menu [A1B9 IFO FORUM TO IFO ALBANY] that is nationally located on the FORUM system. It is broken down into each of its sub-menus, and sometimes menus within the sub-menu, with a discussion of each option. This portion should be thought of and used as a reference guide to the options that are available on the FORUM system:

THE SAGG PROJECT

\* Statistical Analysis of Global Growth \*

Help Menu ... [A1B9 ISC HELP]  
Operating System Version Numbers [A1B9 ISC OS VERSION]  
Package Status Menu ... [A1B9 ISC IMPLEMENTATION STATS]  
Single Site Review Menu ... [A1B9 ISC FACILITY REVIEW]  
Site Trending Menu ... [A1B9 ISC SITE TRENDING MENU]  
Statistics Menu ... [A1B9 ISC STATS]

## Help Menu

### [A1B9 ISC HELP]

This menu provides helpful information on the SAGG (Statistical Analysis of Global Growth) Project. Currently, this menu has only one option:

```
Information about SAGG Project [A1B9 ISC EXPLAIN SAGG]
```

## Information about SAGG Project

### [A1B9 ISC EXPLAIN SAGG]

This option gives additional information on the SAGG (Statistical Analysis of Global Growth) Project.

### Prompt/User Response:

```
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>
```

```
* The SAGG Project *
```

```
The SAGG (Statistical Analysis of Global Growth) Project was formulated to further address our need to obtain accurate and concise data regarding the current and future extent of global growth at the VAMCs. The SAGG Project will produce data enabling all VAMCs and CIOFOs to make various statistical analysis studies of global growth patterns within the VistA environment. This data will yield crucial information that will aid with capacity and resource planning at the sites, help with future equipment procurement, as well as with system tuning requirements.
```

```
Because the SAGG Project must obtain this data with minimal impact on the IRM staff at the individual sites, the SAGG Project Team has developed an automated means of deriving the information through the use of NetMail to forward this data to the collection CIOFO.
```

```
.  
. .  
. . .
```

## Operating System Version Numbers [A1B9 ISC OS VERSION]

This option displays the current version numbers of the operating system, M, and SAGG. The output is sorted by CIOFO and operating system platform.

### Prompt/User Response:

```

DEVICE: <RET> TELNET      RIGHT MARGIN: 80// <RET>

SAGG - Operating System Versions          JUN 26,1998  16:19    PAGE 1

Site Name      OS              M Version      SAGG           Last
              Version                               Version      Transmission
-----
SUPPORTING CIOFO:  1

  TYPE OF SYSTEM: MSM-PC

Batavia        5.0             MSM-PC/PLUS v4.0.11F  1.6T6         Nov 05, 1995
Bath           6.22           MSM-PC/PLUS v4.0.14   1.7           Apr 15, 1997
Canandaigua   5.0            MSM-PC/PLUS v4.0.14   1.7           Mar 31, 1997
Manchester     5.0            MSM-PC/PLUS v4.0.14   1.7           May 16, 1997
Northampton   5.0            MSM-PC/PLUS v4.0.14   1.7           Apr 26, 1997

  TYPE OF SYSTEM: OPENM-NT

White-River    Windows NT      2.0-F.11         1.8           May 30, 1998

  TYPE OF SYSTEM: VAX-DSM
Albany         V6.2-1H3       DSM V6.4A-012    1.7           Jun 19, 1998
Bedford        V6.2-1H3       DSM V6.4A-012    1.7           May 30, 1998
Boston         V6.2-1H3       DSM V6.4A-012    1.7           Jun 20, 1998
Brooklyn       V6.2-1H3       DSM V6.4A-012    1.7           Jun 20, 1998
Buffalo        V6.2-1H3       DSM V6.4A-012    1.7           Jun 07, 1998
Castle-Point   V6.2-1H3       DSM V6.4A-012    1.7           Jun 20, 1998
Montrose       V6.2-1H3       DSM V6.4A-012    1.7           Jun 19, 1998
New-York       V6.2-1H3       DSM V6.4A-012    1.7           Jun 05, 1998
Newington      V6.2-1H3       DSM V6.4A-012    1.6T6         Jun 20, 1998

```

## Package Status Menu [A1B9 ISC IMPLEMENTATION STATS]

This menu contains options that pertain to various **VISTA** package statistics accumulated for the SAGG Project:

```
PG      Package Globals [A1B9 ISC PACKAGE GLOBALS]
PI      Package Implementation Status [A1B9 ISC IMPLEMENT - ZEROth]
PR      Package Resource Information [A1B9 ISC PACKAGE INFO]
ZC      Zeroth Node Average by Complexity Level
        [A1B9 ISC ZEROth BY COMPLEXITY]
ZE      Zeroth Node at Each Site [A1B9 ISC ZEROth AT EACH]
```

## Package Globals [A1B9 ISC PACKAGE GLOBALS]

This option displays all packages that contain the specified global.

### Prompt/User Response:

```
Select Global Name: DPT
DEVICE: HOME// <RET> TELNET   RIGHT MARGIN: 80// <RET>

          * SAGG PROJECT PACKAGE GLOBALS *
          Printed on: JUN 29, 1998

The DPT global is found in the following packages:

REGISTRATION
SCHEDULING
```

## Package Implementation Status [A1B9 ISC IMPLEMENT – ZEROth]

This option displays the implementation status of the specified file at all sites in alphabetical order by analyzing zeroth node statistics.

### Prompt/User Response:

```
Select PACKAGE:  REGISTRATION <RET>          DG
DEVICE: HOME// <RET> TELNET   RIGHT MARGIN: 80// <RET>

          * SAGG PROJECT ANALYSIS OF PACKAGE IMPLEMENTATION *
          Reporting Period: JUN 29, 1998

Package Name: REGISTRATION          File Name:  PATIENT
File Number:  2                    Global Name: ^DPT(
```

---

| Site        | Last Session Date | File Version | Package in Use (Y/N) | Current Number of Entries | Past 28 Day Change | Comments                |
|-------------|-------------------|--------------|----------------------|---------------------------|--------------------|-------------------------|
| Albany      | 06/19/1998        | 5.3          | Y                    | 109,010                   | +794               | Loaded since 01/09/1993 |
| Albuquerque | 06/21/1998        | 5.3          | Y                    | 239,646                   | +1,052             | Loaded since 01/09/1993 |
| Alexandria  | 05/21/1997        | 5.3          | Y                    | 60,529                    | +234               | Data not current        |
| Allen-Park  | 06/16/1998        | 5.3          | Y                    | 142,483                   | +597               | Loaded since 01/16/1993 |
| Altoona     | 04/27/1997        | 5.3          | Y                    | 33,074                    | +130               | Data not current        |
| Amarillo    | 05/31/1996        | 5.3          | Y                    | 63,235                    | +225               | Data not current        |
| Anchorage   | 10/05/1995        | 5.3          | Y                    | 60,782                    | +183               | Data not current        |
| Ann-Arbor   | 06/06/1998        | 5.3          | Y                    | 113,822                   | +615               | Loaded since 02/11/1993 |
| Asheville   | 05/30/1998        | 5.3          | Y                    | 71,335                    | +325               | Loaded since 05/09/1993 |
| Atlanta     | 06/12/1998        | 5.3          | Y                    | 180,070                   | +763               | Loaded since 03/08/1993 |

```
Press RETURN to continue or '^' to exit:
```

## **Package Resource Information** **[A1B9 ISC PACKAGE INFO]**

This option gives additional information on the various **VISTA** packages. Starting with a brief description about the package, the option provides details on the package resource requirements, purging and archiving features, and data storage and retention information.

### **Prompt/User Response:**

```

                                SAGG DHCP PACKAGE INFORMATION

This option will give additional information on the various DHCP packages. The
package data will detail resource requirements, and data storage and retention
information.

Select Package:      OUTPATIENT PHARMACY      PSO
Select VERSION: 6.0// <RET>
DEVICE: HOME// <RET>  TELNET      RIGHT MARGIN: 80// <RET>

* SAGG Information for OUTPATIENT PHARMACY Package *
                        (Version 6.0)

DESCRIPTION:

The Outpatient Pharmacy Package provides a method for managing the medications
given to veterans who have visited a clinic or have received prescriptions upon
discharge from the hospital in addition to controlling inventory and costs.
Prescription labels and refill requests are automatically generated. Medication
histories are kept on line to check for possible interactions. This package can
be customized locally to meet local needs.

RESOURCE REQUIREMENTS:

This version of Outpatient Pharmacy includes 136 routines requiring about 260
Kbytes of disk space and 62 'INIT' routines requiring 180 Kbytes. This package
also requires 18 files in addition to those used by Kernel and other files to
which this package points.

An average prescription requires 300 bytes of disk storage.
```

## Package Resource Information–Prompt/User Response (continued):

## NEW FEATURES/ENHANCEMENTS:

No information listed.

## PURGE OPTION(S) NAME:

1. PSO PNDEL Delete from Suspence File

The option deletes printed Rx's from the suspense file if they were printed over the site specified number of days to remain in the suspense.  
(Version 6.0)

## a. Globals/Files Impacted:

PS(52.5 RX SUSPENCE FILE (File 52.5)

## b. Minimum Retention Period:

7 days

## c. Special Considerations:

This option allows for deletion from the RX SUSPENCE File, the records of all prescriptions which have already been printed. This option should be used when it is known that the prescriptions to be deleted have already been mailed.

## d. Disk Recovery Estimates:

Approximately 100 bytes per entry

2. PSOARCPURGE Purge

Purge prescriptions identified in ^PSOARC global from ^PSRX.

## a. Globals/Files Impacted:

PS(55 PHARMACY PATIENT FILE (File 55)  
PSRX( PRESCRIPTION FILE (File 52)

## b. Minimum Retention Period:

1 year (but may be less)

## c. Special Considerations:

There are four options utilized during the Archiving [PSOARCH] Menu. The Find [PSOARCRX] option identifies prescriptions (RXs) which have expired or been canceled before the selected date range. The default is 'T-360' days. The Save [PSOARCRS] option records all Find information to magnetic tape. Purge [PSOARCPURGE] deletes all archived prescriptions from the PRESCRIPTION File (#52). If needed, the Tape Retrieval option [PSOARI] reads information from the tape and prints a summary of all prescriptions for a selected patient.

Once prescriptions are archived, and if the Initialize Cost Statistics option [PSO COSTINIT] has not been running, the cost data can not be recompiled for those prescriptions.

Package Resource Information–Prompt/User Response (continued):

d. Disk Recovery Estimates:

PSRX( - approx. 300 bytes per entry  
PS(55 - approx. 100 bytes per RX

ARCHIVING OPTION(S) NAME:

1. N/A No archive features exist for this release

PACKAGE GLOBAL(S):

APSPQA  
PS  
PSCST  
PSDRUG  
PSRX

## ZerOTH Node Average by Complexity Level [A1B9 ISC ZEROTH BY COMPLEXITY]

This option displays the number of entries and the average growth per day for all sites by complexity level.

### Prompt/User Response:

```
Select FILE to review: PATIENT
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

* ZEROTH NODE DATA BY COMPLEXITY LEVEL *
  Reporting Period: JUN 29, 1998

      COMPLEXITY LEVEL 1

File Name: PATIENT
File Number: 2 Global Name: ^DPT(
```

---

|             | Session<br>Date | Number of<br>Entries | Average<br>Change<br>Per Day | File<br>Version |
|-------------|-----------------|----------------------|------------------------------|-----------------|
| Albany      | 06/19/1998      | 109,010              | +16.4                        | 5.3             |
| Albuquerque | 06/21/1998      | 239,646              | +41.7                        | 5.3             |
| Allen-Park  | 06/16/1998      | 142,483              | +20.5                        | 5.3             |
| Ann-Arbor   | 06/06/1998      | 113,822              | +16.0                        | 5.3             |
| Atlanta     | 06/12/1998      | 180,070              | +27.5                        | 5.3             |
| Augusta     | 05/23/1998      | 103,046              | +17.0                        | 5.3             |
| Baltimore   | 06/20/1998      | 142,199              | +34.7                        | 5.3             |
| Bay-Pines   | 06/12/1998      | 308,967              | +48.7                        | 5.3             |

```
Press RETURN to continue or '^' to exit:
```

## Zeroth Node at Each Site [A1B9 ISC ZEROth AT EACH]

This option displays the number of entries in the specified file for all sites in alphabetical order.

### Prompt/User Response:

```

Select FILE to review: PATIENT
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

* ZEROth NODE AT EACH SITE *
Reporting Period: JUN 29, 1998

File Name: PATIENT
File Number: 2 Global Name: ^DPT(

```

---

|             | Session Date | Number of Entries | Average Change Per Day | File Version |
|-------------|--------------|-------------------|------------------------|--------------|
| ALBANY      | 06/19/1998   | 109,010           | +16.4                  | 5.3          |
| ALBUQUERQUE | 06/21/1998   | 239,646           | +41.7                  | 5.3          |
| ALEXANDRIA  | 05/21/1997   | 60,529            | +8.3                   | 5.3          |
| ALLEN-PARK  | 06/16/1998   | 142,483           | +20.5                  | 5.3          |
| ALTOONA     | 04/27/1997   | 33,074            | +4.0                   | 5.3          |
| AMARILLO    | 05/31/1996   | 63,235            | +12.8                  | 5.3          |
| ANCHORAGE   | 10/05/1995   | 60,782            | +6.3                   | 5.3          |
| ANN-ARBOR   | 06/06/1998   | 113,822           | +16.0                  | 5.3          |
| ASHEVILLE   | 05/30/1998   | 71,335            | +10.5                  | 5.3          |
| ATLANTA     | 06/12/1998   | 180,070           | +27.5                  | 5.3          |

```

Press RETURN to continue or '^' to exit:

```

## Single Site Review Menu

### [A1B9 ISC FACILITY REVIEW]

This menu contains options that allow the user to review SAGG data from an individual facility:

|    |   |
|----|---|
| PS | Package Size for One Site [A1B9 ISC PACKAGE AT ONE]         |
| PV | Package Versions for One Site [A1B9 ISC PKG VERSION AT ONE] |
| SU | SAGG Unit Calculation for One Site [A1B9 ISC SITE SU]       |
| SY | Systems/Hardware Display [KMP1 ISC SYSTEMS DISPLAY]         |
|    | Demographics Display [KMP1 ISC DEMOGRAPHICS]                |
|    | Review Site's Data [KMP1 ISC SITE DATA]                     |
|    | Zeroth Node Inquiry [A1B9 ISC ZEROTH AT ONE]                |

## Package Size for One Site [A1B9 ISC PACKAGE AT ONE]

This option displays the last reported package size for a given site for a specified monthly period.

### Prompt/User Response:

```
Select Site to review:  ALBANY.VA.GOV
Select Session Date to review:  JUN 19,1998 <RET>   (JUN 19, 1998)

Select Package to review:  REGISTRATION <RET>   DG
DEVICE: HOME// <RET>  TELNET   RIGHT MARGIN: 80// <RET>

      * SAGG Package Size for One Site for REGISTRATION Package *
                Reporting Period: JUN 19, 1998

Site:  ALBANY          (VAX-DSM)

DG =                58,468 blks
DGAM =              145 blks
DGBT =             44,770 blks
DGIN =              776 blks
DGM =                2 blks
DGMT =            104,229 blks
DGP =             49,773 blks
DGPM =            186,472 blks
DGPR =            19,941 blks
DGPT =            72,589 blks
DGS =               558 blks
DGSL =             4,893 blks
DGWAIT =           2 blks
DPT =            409,372 blks
ICPT =             6,345 blks
VA =             10,144 blks
VAS =            11,869 blks
VAT =            34,050 blks

Total Package Size = 1,014,398 blks
```

## Package Versions for One Site [A1B9 ISC PKG VERSION AT ONE]

This option displays the version numbers of all packages as reported by the site.

### Prompt/User Response:

```
Select Site's Name: ALBANY.VA.GOV
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

* ALBANY Package Version Information *
  Printed on: JUN 29, 1998

Package Name           Site's    Site's    Site's
                       Current   Last      Install
                       Version   Version   Date
-----
2841206                3.6      3.6      SEP 13, 1987
ALA4 IG SEARCHES      0
A1BF RESPONSE TIME    1         1.0     FEB 03, 1993
A1BO NURSING HOME CENSUS 1.0       1.0     APR 29, 1994
A1CK                   1.21     1.21     MAY 22, 1991
A3AQUEUE              1.6T8    1.6T8    JAN 05, 1995
A4D MEANS TEST        0
A4DU                   1.2      1.2     APR 20, 1990
ACCOUNTS RECEIVABLE   4.5      4.5
ACCOUNTS RECEIVALBE V 1.91 1.91     1.91     MAR 07, 1989

Press RETURN to continue or '^' to exit:
```

## SAGG Unit Calculation for One Site [A1B9 ISC SITE SU]

This option calculates the current and dynamic SAGG Unit (SU) value for the selected site.

### Prompt/User Response:

```
Select Site's Name: ALBANY.VA.GOV
Select Ending Session Date: JUN 19, 1998// <RET> (JUN 19, 1998)

DEVICE: HOME// <RET> TELNET    RIGHT MARGIN: 80// <RET>

                * SAGG UNIT CALCULATION DISPLAY *
-----
                        Selected Site Statistics
Site Name:  ALBANY           Comp Level: 1      Date Range:  JUL 1997 - JUN 1998
Cur. DB Size: 17.4 Gb      Prev. 12 Month DB Size: 13.8 Gb
Prev. 3 Month DB Growth: 1.2 Gb      Prev. 12 Month DB Growth: 3.9 Gb
-----
                        Comp Level 1 Comparisons
Cur. Avg. DB Size:        23.2 Gb      (Sites Reporting: 54)
Prev. 3 Month DB Size:    21.2 Gb      (Sites Reporting: 55)
Prev. 12 Month DB Size:   17.3 Gb      (Sites Reporting: 47)
Prev. 3 Month DB Growth:  2.0 Gb (8 Gb/yr)  Prev. 12 Month DB Growth: 6.4 Gb
-----
                        Largest Site Comparisons
Site Name:  LITTLE-ROCK
Cur. DB Size:        39.4 Gb      Prev. 12 Month DB Growth: 12.5 Gb
-----
                        Weighted Factor Analysis
WF1 = 44      WF2 = 3.1      WF3 = 5.6      WF4 = 7.6      WF5 = 15.0
-----
The current SAGG Unit for ALBANY is:  SU 4-3 (06/1998)

Do you want an explanation of how the SAGG Unit is calculated (Y/N): N// <RET>
```

## Systems/Hardware Display [KMP1 ISC SYSTEMS DISPLAY]

This option displays the systems/hardware configuration for a single site.

### Prompt/User Response:

```

Select Site's Name: ALBANY.VA.GOV
DEVICE: HOME// <RET> TELNET    RIGHT MARGIN: 80// <RET>

                * SAGG SITE SYSTEM DATA DISPLAY *

                SYSTEM INFORMATION

Site Name:      ALBANY      Complexity:      1      Supporting CIOFO: 1
System Type:    VAX-DSM     OS Version:      V6.2-1H3
SAGG Version:   1.7         MUMPS Version:   DSM V6.4A-012 for OpenVMS AXP
Last Session:   JUN 19, 1998 Kernel Version:   8.0

-----

                CONFIGURATION INFORMATION

Total Database: 16,980,657 Ptr + Data blks ( 17.4 Gb )
Disk Capacity:  35 Total Gb w/14 Usable Gb
NOTE:           These totals may only reflect centrally procured disks

Volume Sets:    ROU  VAA  VBB  VCC  VDD  VEE  VFF  VGG  VHH  VII  VJJ  VKK
                VLL  VMM  VNN  XMB

-----

                ALBANY
                HARDWARE INFORMATION

                Node Name                Model Number
                -----                -----
                500A01                AlphaServer 1000A 5/400
                500A02                AlphaServer 1000A 5/400
                500A03                AlphaServer 1000A 5/400
                500A04                AlphaServer 1000A 5/400
                500A05                AlphaServer 1000A 5/400

```

## Demographics Display [KMP1 ISC DEMOGRAPHICS]

This option shows basic site information, system information, configuration information, and model rank information.

### Prompt/User Response:

```
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

* SAGG SITE DEMOGRAPHICS DISPLAY *

-----
Site Name: ALBANY          BASIC SITE INFORMATION
                          Complexity Level: 1      Supporting CIOFO: 1
-----
                          SYSTEM INFORMATION
System Type: VAX-DSM      OS Version:      V6.2-1H3
SAGG Version: 1.7        MUMPS Version: DSM V6.4A-012 for OpenVMS AXP
Last Session: JUN 19, 1998 Kernel Version: 8.0
-----
                          CONFIGURATION INFORMATION
Total Database: 16,980,657 Ptr + Data blks ( 17,388 Mb / 17.4 Gb )
Volume Sets:  ROU VAA VBB VCC VDD VEE VFF VGG VHH VII VJJ VKK
              VLL VMM VNN XMB
-----
```

## Review Site's Data [KMP1 ISC SITE DATA]

This option displays/prints the global size information for a designated site for a specified month. The option looks back to a previous session within a 7-40 day window to determine the delta change.

### Prompt/User Response:

```

Select SITE'S NAME: ALBANY.VA.GOV

Select DATE to review: (2/1/92 - 6/29/98): JUN 19, 1998// <RET>
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

          SAGG Data for ALBANY on JUN 19, 1998

Site: ALBANY                      System Type: VAX-DSM
                                Complexity Level : 1
Session Analyzed: 06/19/1998

Volume Set(s): ROU VAA VBB VCC VDD VEE VFF VGG VHH VII VJJ VKK VLL
              VMM VNN XMB

          * STATISTICAL ANALYSIS OF GLOBAL GROWTH *

          Sample time: 28 days between analyzed sessions

Session Date:      05/22/1998                      06/19/1998
Total:             16,584,940 Ptr+Data Blks          16,980,657 Ptr+Data Blks
Database Size:    17.0 Gb                            17.4 Gb

Global      Number      Number      Number
Name        of Ptr+Data  of Maps    of Blocks
-----    -
A1          2              0          0
A1AB        2              0          0
A1AC        1,636          4.1        0
A1B2        11             86%        0
A1B5        2              50%        0
A1B5GE      49             78%        -7 (Note 1)
A1BM        2              4%         0
ABJ         69,127         172.8      79%        945
.
.
.

```

## Zeroth Node Inquiry [A1B9 ISC ZEROth AT ONE]

This option displays the number of entries in the specified file for a given site.

### Prompt/User Response:

```

Select SITE'S NAME: ALBANY.VA.GOV
Select FILE to review: PATIENT
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

          * SAGG ZEROth NODE INQUIRY *

Site Name: ALBANY Complexity Level: 1
System Type: VAX-DSM Last Session Date: 06/19/1998

File Name: PATIENT
File Number: 2 Global Name: ^DPT(

Current File Version at Site: 5.3
    
```

---

| Session Dates                                | Days Between Sessions | Number of Entries | Total Change | Average Change Per Day | File Version |
|--|-----------------------|-------------------|--------------|------------------------|--------------|
| 01/09/1993                                   | --                    | 76,479            | --           | --                     | 5.2          |
| 02/06/1993                                   | 28                    | 77,020            | +541         | +19.3                  | 5.2          |
| 03/06/1993                                   | 28                    | 77,467            | +447         | +16.0                  | 5.2          |
| 04/03/1993                                   | 28                    | 77,925            | +458         | +16.4                  | 5.2          |
| 04/30/1993                                   | 27                    | 78,378            | +453         | +16.8                  | 5.2          |
| 05/06/1993                                   | 6                     | 78,475            | +97          | +16.2                  | 5.2          |
| 06/03/1993                                   | 28                    | 78,987            | +512         | +18.3                  | 5.2          |
| 06/04/1993                                   | 1                     | 78,987            | 0            | 0.0                    | 5.2          |
| 07/01/1993                                   | 27                    | 79,472            | +485         | +18.0                  | 5.3T3        |
| .  | .                     | .                 | .            | .                      | .            |
| 02/27/1998                                   | 28                    | 106,084           | +696         | +24.9                  | 5.3          |
| 03/27/1998                                   | 28                    | 106,737           | +653         | +23.3                  | 5.3          |
| 04/24/1998                                   | 28                    | 107,442           | +705         | +25.2                  | 5.3          |
| 05/22/1998                                   | 28                    | 108,216           | +774         | +27.6                  | 5.3          |
| 06/19/1998                                   | 28                    | 109,010           | +794         | +28.4                  | 5.3          |
|  |                       |                   |              | =====                  |              |
| Average Per Day For Entire Reporting Period: |                       |                   |              | +16.4                  |              |

## Site Trending Menu

### [A1B9 ISC SITE TRENDING MENU]

This menu contains options that derive statistics from the SAGG Project data:

|    |                                  |
|----|----------------------------------|
| DH | Database Size by Site (High/Low) |
| GT | Global Trend                     |
| TF | Top 20 DHCP Files Site Trend     |
| TG | Top 20 DHCP Globals Site Trend   |
| TP | Top 20 DHCP Packages Site Trend  |
|    | Database Site Trend              |
|    | Expanded Package Trend           |

## Database Size by Site (High/Low) [KMP1 ISC SITE DB H/L]

This option displays the database size for all sites, during the specified month, in a high/low order.

### Prompt/User Response:

```
Select MONTH/YEAR to review: JUN 1998 <RET> (JUN 1998)
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

      * SAGG Database Size - High to Low Sites *
      Reporting Period: JUN 1998
      (High to Low)

Site Name           Type           Database Size
-----           -
LITTLE-ROCK        (VAX-DSM)      39.4 Gb
TAMPA               (VAX-DSM)      38.6 Gb
TEMPLE              (VAX-DSM)      36.9 Gb
WEST-LA             (VAX-DSM)      33.3 Gb
MIAMI               (VAX-DSM)      31.1 Gb
LONG-BEACH          (VAX-DSM)      30.1 Gb
WEST-PALM           (VAX-DSM)      29.8 Gb
BOSTON              (VAX-DSM)      29.7 Gb
SAN-ANTONIO         (VAX-DSM)      28.3 Gb
INDIANAPOLIS        (VAX-DSM)      26.9 Gb
PITTSBURGH          (VAX-DSM)      26.5 Gb
WEST-HAVEN          (VAX-DSM)      26.3 Gb
CHICAGO-WEST        (VAX-DSM)      25.9 Gb

Press RETURN to continue or '^' to exit:
```

## Global Trend [A1B9 ISC SITE GBL TRENDING]

This option displays global trends for an individual site.

### Prompt/User Response:

```

Select Site's Name: ALBANY.VA.GOV
Select the Exception % Value to Flag Against the DB Growth: (1-99): 20// <RET>
Select Ending Session Date: JUN 19, 1998// <RET> (JUN 19, 1998)
Select the Number of months to Trend Back to: 6// <RET>

Select Global to Review: DPT

DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

* SAGG GLOBAL TRENDING DISPLAY FOR ^DPT *
-----

Site Name: ALBANY Complexity Level: 1 Supporting ISC: 1
System Type: VAX-DSM OS Version: V6.2-1H3 Kernel Version: 8.0
SAGG Version: 1.7 MUMPS Version: DSM V6.4A-012 for OpenVMS AXP
-----

ACTUAL GLOBAL TREND                                NORMALIZED GLOBAL TREND
-----

SESSION # OF GB SIZE GB GROWTH GB GB % GB SIZE GB GROWTH Flags
DATES    DAYS | In Blks In Blks Eff  CHANGE| In Blks In Blks |
-----

JAN 02, 1998 28 | 384,128 3,107 77% 0.8% | 388,328 4,200 | *L*
JAN 30, 1998 28 | 387,764 3,636 77% 0.9% | 391,964 4,200 |
FEB 27, 1998 28 | 391,842 4,078 77% 1.0% | 396,042 4,200 |
MAR 27, 1998 28 | 395,801 3,959 77% 1.0% | 400,001 4,200 |
APR 24, 1998 28 | 399,935 4,134 77% 1.0% | 404,135 4,200 |
MAY 22, 1998 28 | 404,698 4,763 77% 1.2% | 408,898 4,200 |
JUN 19, 1998 28 | 409,372 4,674 77% 1.1% | 413,572 4,200 |

Press RETURN to continue or '^' to exit: <RET>
    
```

Global Trend- Prompt/User Response (continued):

| STATISTICAL INFORMATION FOR ^DPT     |   |            |
|--------------------------------------|---|------------|
| -----                                |   |            |
| Beginning Global Size:               | 384,128 Blks  | (393.3 Mb) |
| Ending Global Size:                  | 409,372 Blks  | (419.2 Mb) |
| # Sample Sessions:                   | 7 Samples   |            |
| Total # of Sample Days:              | 168 Days  |            |
| Avg Daily Normalized Global Growth:  | 150 Blks  |            |
| Avg 28 Day Normalized Global Growth: | 4,200 Blks  |            |
| Avg 1 Year Normalized DPT Growth:    | 54,750 Blks   | (56.1 Mb)  |
|                                      |   |            |
| Avg 1 Year Projected DPT Size:       | 464,122 Blks  | (475.3 Mb) |
| Avg 2 Year Projected DPT Size:       | 518,872 Blks  | (531.3 Mb) |
| Avg 3 Year Projected DPT Size:       | 573,622 Blks  | (587.4 Mb) |
|                                      |   |            |
| Note:                                | *H* means that the actual global growth increased 20% more than the average normalized global growth for this site. |            |
|                                      | *L* means that the actual global growth decreased 20% more than the average normalized global growth for this site. |            |

## Top 20 DHCP Files Site Trend [A1B9 ISC SITE TOP FILE TREND]

This option displays trends for the top **VISTA** files for an individual site.

### Prompt/User Response:

```

Select Site's Name: ALBANY.VA.GOV
Select Ending Session Date: JUN 19, 1998// <RET> (JUN 19, 1998)
Select the Number of months to Trend Back to: 6// <RET>

Select the Number of Top Growth DHCP Files to Print: 20// 5
Date Range Selected: JAN 02, 1998 - JUN 19, 1998

DEVICE: HOME// <RET> TELNET    RIGHT MARGIN: 80// <RET>

                * Top DHCP File Trending Display *
        Reporting Period: JAN 02, 1998 - JUN 19, 1998

                Top Growing DHCP Files for ALBANY
                Number of File Entries

```

| File Name / Number / Global   | JAN 02, 1998 | JUN 19, 1998 | Total Change |
|---|--------------|--------------|--------------|
| V CPT<br>-----<br>#9000010.18^AUPNVCPT(<br>OUTPATIENT ENCOUNTER<br>#409.68 ^SCE(<br>V PROVIDER<br>#9000010.06^AUPNVPRV(<br>OUTPATIENT PROVIDER<br>#409.44 ^SDD(409.44,<br>VISIT<br>#9000010 ^AUPNVSIT(<br>----- | 804,546      | 1,213,484    | +408,938     |
|   | 2,363,695    | 2,723,025    | +359,330     |
|   | 758,257      | 1,082,002    | +323,745     |
|   | 1,147,119    | 1,469,520    | +322,401     |
|   | 589,636      | 829,429      | +239,793     |

## Top 20 DHCP Globals Site Trend [A1B9 ISC SITE TOP GBL TREND]

This option displays trends for the top **VISTA** globals for an individual site.

### Prompt/User Response:

```
Select Site's Name: ALBANY.VA.GOV
Select Ending Session Date: JUN 19, 1998// <RET> (JUN 19, 1998)
Select the Number of months to Trend Back to: 6// <RET>

Select The Number of Top Growth Globals To Print: 20// 5
Date Range Selected: JAN 02, 1998 - JUN 19, 1998

DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

* SAGG Top 5 Growth Globals for ALBANY *
Reporting Period: JAN 02, 1998 - JUN 19, 1998

Global      JAN 02, 1998      JUN 19, 1998      Tot Global      Percent
Name        Size (Mb)         Size (Mb)         Growth (Mb)     Growth
-----
OR          315.07            448.91            133.84          30%
IBD         37.05             169.59            132.54          78%
GMR         522.30            643.42            121.12          19%
PSRX       858.88            961.67            102.79          11%
SD         135.21            236.32            101.11          43%
```

## Top 20 DHCP Packages Site Trend [A1B9 ISC SITE TOP PKG TREND]

This option displays trends for the top **VISTA** packages for an individual site.

### Prompt/User Response:

```
Select Site's Name: ALBANY.VA.GOV
Select Ending Session Date: JUN 19, 1998// <RET> (JUN 19, 1998)
Select the Number of months to Trend Back to: 6// <RET>

Select the number of Top Growing DHCP Packages to Print: 20// 5
Date Range Selected: JAN 02, 1998 - JUN 19, 1998

DEVICE: HOME// <RET> TELNET    RIGHT MARGIN: 80// <RET>
```

```
      * Top DHCP Package Trending Display *
Reporting Period: JAN 02, 1998 - JUN 19, 1998
```

```
Top Growing DHCP Packages (in Mb) for ALBANY
```

| DHCP Package Name              | JAN 02, 1998 | JUN 19, 1998 | Total Change |
|--------------------------------|--------------|--------------|--------------|
| -----                          | -----        | -----        | -----        |
| SCHEDULING                     | 1,862.37     | 2,191.85     | +329.48      |
| AUTOMATED INFO COLLECTION SYS  | 182.68       | 423.71       | +241.03      |
| OUTPATIENT PHARMACY            | 1,958.89     | 2,169.89     | +211         |
| PATIENT CARE ENCOUNTER (PCE)   | 346.78       | 498.3        | +151.52      |
| AMBULATORY CARE REPORT PROJECT | 432.45       | 582.07       | +149.62      |

## Database Site Trend [A1B9 ISC SITE DB TRENDING]

This option displays database trends for an individual site.

### Prompt/User Response:

```

Select Site's Name: ALBANY.VA.GOV
Select the Exception % Value to Flag Against the DB Growth: (1-99): 20// <RET>
Select Ending Session Date: JUN 19, 1998// <RET> (JUN 19, 1998)
Select the Number of months to Trend Back to: 6// <RET>

You have selected 7 sessions.

DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

* SAGG SITE DATABASE TRENDING DISPLAY*
-----
Site Name: ALBANY Complexity Level: 1 Supporting ISC: 1
System Type: VAX-DSM OS Version: V6.2-1H3 Kernel Version: 8.0
SAGG Version: 1.7 MUMPS Version: DSM V6.4A-012 for OpenVMS AXP
-----

```

| ACTUAL DATABASE TREND |           |                 |                   |             | NORMALIZED DATABASE TREND |                   |       |  |
|-----------------------|-----------|-----------------|-------------------|-------------|---------------------------|-------------------|-------|--|
| SESSION DATES         | # OF DAYS | DB SIZE In Blks | DB GROWTH In Blks | DB % CHANGE | DB SIZE In Blks           | DB GROWTH In Blks | Flags |  |
| JAN 02, 1998          | 28        | 15,408,445      | 273,230           | 1.8         | 15,670,469                | 262,024           |       |  |
| JAN 30, 1998          | 28        | 15,761,565      | 353,120           | 2.2         | 16,023,589                | 262,024           | *H*   |  |
| FEB 27, 1998          | 28        | 15,807,574      | 46,009            | 0.3         | 16,069,598                | 262,024           | *L*   |  |
| MAR 27, 1998          | 28        | 15,784,498      | -23,076           | -0.1        | 16,046,522                | 262,024           | *L*   |  |
| APR 24, 1998          | 28        | 16,148,996      | 364,498           | 2.3         | 16,411,020                | 262,024           | *H*   |  |
| MAY 22, 1998          | 28        | 16,584,940      | 435,944           | 2.6         | 16,846,964                | 262,024           | *H*   |  |
| JUN 19, 1998          | 28        | 16,980,657      | 395,717           | 2.3         | 17,242,681                | 262,024           | *H*   |  |

```

Press RETURN to continue or '^' to exit: <RET>

```

## Database Site Trend– Prompt/User Response (continued):

| STATISTICAL INFORMATION          |  |           |
|----------------------------------|--|-----------|
| -----                            |  |           |
| Beginning Database Size:         | 15,408,445 Blks  | (15.8 Gb) |
| Ending Database Size:            | 16,980,657 Blks  | (17.4 Gb) |
| # Sample Sessions:               | 7 Samples  |           |
| Total # of Sample Days:          | 168 Days   |           |
| Avg Daily Normalized DB Growth:  | 9,358 Blks   |           |
| Avg 28 Day Normalized DB Growth: | 262,024 Blks   |           |
| Avg 1 Year Normalized DB Growth: | 3,415,670 Blks   | (3.5 Gb)  |
| Avg 1 Year Projected DB Size:    | 20,396,327 Blks  | (20.9 Gb) |
| Avg 2 Year Projected DB Size:    | 23,811,997 Blks  | (24.4 Gb) |
| Avg 3 Year Projected DB Size:    | 27,227,667 Blks  | (27.9 Gb) |
| Note:                            | *H* means that the actual database growth increased 20%<br>more than the average normalized database growth for<br>this site.<br>*L* means that the actual database growth decreased 20%<br>more than the average normalized database growth for<br>this site. |           |

## Expanded Package Trend [A1B9 ISC SITE EXP PKG TRENDING]

This option displays expanded package trends for an individual site.

### Prompt/User Response:

```

Select Site's Name: ALBANY.VA.GOV
Select Ending Session Date: JUN 19, 1998// <RET> (JUN 19, 1998)

Select the number of sessions to Trend Back: 5// <RET>
Select Package to review: REGISTRATION <RET> DG
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

* SAGG Trending Results for the REGISTRATION Package *

Trending Period from: JAN 30, 1998 - JUN 19, 1998

Site: ALBANY (VAX-DSM) Data Shown in Blocks
Global JAN 30 FEB 27 MAR 27 APR 24 MAY 22 JUN 19
1998 1998 1998 1998 1998 1998
-----
^DG 55,624 56,178 56,718 57,320 57,890 58,468
[+554] [+540] [+602] [+570] [+578]
-----
^DGAM 138 139 141 143 144 145
[1] [+2] [+2] [1] [1]
-----
^DGBT 41,905 42,412 42,993 43,596 44,206 44,770
[+507] [+581] [+603] [+610] [+564]
-----
^DGIN 342 603 781 305 534 776
[+261] [+178] [-476] [+229] [+242]
-----
^DGM 5 2 25 10 7 2
[-3] [+23] [-15] [-3] [-5]
-----
^DGMT 95,171 96,954 98,724 100,456 102,247 104,229
[+1,783] [+1,770] [+1,732] [+1,791] [+1,982]
-----
^DGP 48,345 48,686 48,912 49,291 49,542 49,773
[+341] [+226] [+379] [+251] [+231]
-----
^DGPM 181,998 182,940 183,890 184,703 185,608 186,472
[+942] [+950] [+813] [+905] [+864]
-----
Press RETURN to continue or '^' to exit:
    
```

## **Statistics Menu**

### **[A1B9 ISC STATS]**

This menu contains sub-menus that derive statistics from the SAGG Project data:

```
Database Statistics Menu ... [A1B9 ISC DB STATS]
Global Statistics Menu ... [A1B9 ISC GLOBAL STATS]
Package Statistics Menu ... [A1B9 ISC PACKAGE STATS]
Zeroth Node Statistics Menu ... [A1B9 ISC ZEROth STATS]
```

## **Database Statistics Menu** **[A1B9 ISC DB STATS]**

This menu contains various SAGG database related options:

|      |   |
|------|---|
| COMP | Total Database Size by Complexity Level [A1B9 ISC DB/COMP SIZE] |
| HL   | Database Size by Site (High/Low) [KMP1 ISC SITE DB H/L]         |

## Total Database Size by Complexity Level [A1B9 ISC DB/COMP SIZE]

This option calculates the average total database size by complexity level for a specified month.

### Prompt/User Response:

```
Select MONTH/YEAR to review: JUN 1998 <RET> (JUN 1998)

DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

      * SAGG Stats for Total Database Size by Complexity Level *
      Reporting Period: JUN 1998

Complexity Level: 1           Sites Reporting: 54
  Avg Size (blks): 22,699,284 blks   Highest Size: 38,456,018 blks
      (Mb): 23,244.07                               (LITTLE-ROCK.VA.GOV)
                                                    Lowest Size : 14,145,854 blks
                                                    (LOMA-LINDA.VA.GOV)

Complexity Level: 2           Sites Reporting: 20
  Avg Size (blks): 15,071,712 blks   Highest Size: 36,064,865 blks
      (Mb): 15,433.43                               (TEMPLE.VA.GOV)
                                                    Lowest Size : 3,534,163 blks
                                                    (WHITE-RIVER.VA.GOV)

Complexity Level: 3           Sites Reporting: 17
  Avg Size (blks): 9,691,613 blks   Highest Size: 29,080,907 blks
      (Mb): 9,924.21                               (WEST-PALM.VA.GOV)
                                                    Lowest Size : 2,238,464 blks
                                                    (FT-HARRISON.VA.GOV)

Complexity Level: 4           Sites Reporting: 3
  Avg Size (blks): 4,442,387 blks   Highest Size: 7,173,815 blks
      (Mb): 4,549.00                               (WHITE-CITY.VA.GOV)
                                                    Lowest Size : 1,582,750 blks
                                                    (MILES-CITY.VA.GOV)
```

### Database Size by Site (High/Low) [KMP1 ISC SITE DB H/L]

This option displays the database size for all sites, during the specified month, in a high/low order.

#### Prompt/User Response:

```
Select MONTH/YEAR to review: JUN 1998 <RET> (JUN 1998)
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

      * SAGG Database Size - High to Low Sites *
      Reporting Period: JUN 1998
      (High to Low)

Site Name           Type           Database Size
-----
LITTLE-ROCK        (VAX-DSM)      39.4 Gb
TAMPA               (VAX-DSM)      38.6 Gb
TEMPLE              (VAX-DSM)      36.9 Gb
WEST-LA             (VAX-DSM)      33.3 Gb
MIAMI               (VAX-DSM)      31.1 Gb
LONG-BEACH          (VAX-DSM)      30.1 Gb
WEST-PALM           (VAX-DSM)      29.8 Gb
BOSTON              (VAX-DSM)      29.7 Gb
SAN-ANTONIO         (VAX-DSM)      28.3 Gb
INDIANAPOLIS        (VAX-DSM)      26.9 Gb
PITTSBURGH          (VAX-DSM)      26.5 Gb
WEST-HAVEN          (VAX-DSM)      26.3 Gb
CHICAGO-WEST        (VAX-DSM)      25.9 Gb

Press RETURN to continue or '^' to exit:
```

## **Global Statistics Menu** **[A1B9 ISC GLOBAL STATS]**

This menu contains options that pertain to global statistics for the SAGG Project:

|    |  |
|----|--|
| GA | Global Average by System Type [A1B9 ISC GLOBAL BY SYSTEM]          |
| GC | Global Average by Complexity Level [A1B9 ISC GLOBAL BY COMPLEXITY] |
| GE | Global Size at Each Site [A1B9 ISC GLOBAL AT EACH]                 |
| HL | Global Size - High to Low Sites [A1B9 ISC GLOBAL H/L]              |

## Global Average by System Type [A1B9 ISC GLOBAL BY SYSTEM]

This option displays the average global block size of all sites grouped into system types for a specified monthly period. It also indicates the highest and lowest global block size from the reporting sites.

### Prompt/User Response:

```
Select MONTH/YEAR to review: JUN 1998 <RET> (JUN 1998)

Select Global to review: DPT
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

      * SAGG Global Average by System Type for DPT Global *
      Reporting Period: JUN 1998

System Type: MSM           Sites Reporting: 1
  Avg Size: 150,871 blks   Highest Size: 150,871 blks
                               (WHITE-CITY.VA.GOV)
                               Lowest Size: 150,871 blks
                               (WHITE-CITY.VA.GOV)

System Type: OpenM-NT     Sites Reporting: 4
  Avg Size: 70,886 blks   Highest Size: 109,451 blks
                               (MONTGOMERY.VA.GOV)
                               Lowest Size: 32,571 blks
                               (MILES-CITY.VA.GOV)

System Type: VAX-DSM     Sites Reporting: 89
  Avg Size: 519,727 blks Highest Size: 1,155,647 blks
                               (MIAMI.VA.GOV)
                               Lowest Size: 2 blks
                               (DENVER.VA.GOV)
```

## Global Average by Complexity Level [A1B9 ISC GLOBAL BY COMPLEXITY]

This option displays the average global block size of all sites grouped into complexity levels for a specified monthly period. It also indicates the highest and lowest global block size from the reporting sites.

### Prompt/User Response:

```

Select MONTH/YEAR to review: JUN 1998 <RET> (JUN 1998)

Select Global to review: DPT
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

          * SAGG Global Average by Complexity Level for DPT Global *
          Reporting Period: JUN 1998

Complexity Level: 1          Sites Reporting: 55
  Avg Size (blks): 650,875    Highest Size: 1,155,647 blks
      (Mb): 666.50              (MIAMI.VA.GOV)
                                Lowest Size : 2 blks
                                (DENVER.VA.GOV)

Complexity Level: 2          Sites Reporting: 20
  Avg Size (blks): 394,951    Highest Size: 731,470 blks
      (Mb): 404.43              (TEMPLE.VA.GOV)
                                Lowest Size : 83,952 blks
                                (WHITE-RIVER.VA.GOV)

Complexity Level: 3          Sites Reporting: 17
  Avg Size (blks): 226,277    Highest Size: 435,621 blks
      (Mb): 231.71              (TOPEKA.VA.GOV)
                                Lowest Size : 57,568 blks
                                (FT-HARRISON.VA.GOV)

Complexity Level: 4          Sites Reporting: 3
  Avg Size (blks): 97,631     Highest Size: 150,871 blks
      (Mb): 99.97               (WHITE-CITY.VA.GOV)
                                Lowest Size : 32,571 blks
                                (MILES-CITY.VA.GOV)

```

## Global Size at Each Site [A1B9 ISC GLOBAL AT EACH]

This option displays the last reported global block size of all sites for a specified monthly period. The display notes any site that has multiple volume sets with the same global.

### Prompt/User Response:

```
Select MONTH/YEAR to review: JUN 1998 <RET> (JUN 1998)

Select Global to review: DPT
DEVICE: HOME// <RET> TELNET RIGHT MARGIN: 80// <RET>

          * SAGG Global Size at Each Site for DPT Global *
          Reporting Period: JUN 1998

ALBANY          (VAX-DSM)      409,372 blks
ALBUQUERQUE     (VAX-DSM)      704,528 blks
ALLEN-PARK      (VAX-DSM)      635,534 blks
ANN-ARBOR       (VAX-DSM)       7,421 blks (TST)
                (VAX-DSM)     554,052 blks (VCC)
ATLANTA         (VAX-DSM)     585,214 blks
BALTIMORE       (VAX-DSM)     594,903 blks
BATTLE-CREEK   (VAX-DSM)     429,744 blks
BAY-PINES      (VAX-DSM)     850,620 blks
BEDFORD         (VAX-DSM)     225,074 blks
BIRMINGHAM     (VAX-DSM)     535,373 blks
BOSTON         (VAX-DSM)     852,388 blks
BROCKTON       (VAX-DSM)     541,128 blks
BRONX          (VAX-DSM)     468,788 blks
BROOKLYN      (VAX-DSM)     928,243 blks

Press RETURN to continue or '^' to exit:
```

## Global Size - High to Low Sites [A1B9 ISC GLOBAL H/L]

This option displays the last reported global block size of all sites in highest to lowest order for a specified monthly period. The display notes any site that has multiple volume sets with the same global.

### Prompt/User Response:

```

Select MONTH/YEAR to review:  JUN 1998  <RET> (JUN 1998)

Select Global to review:  DPT
DEVICE: HOME//  <RET>  TELNET  RIGHT MARGIN: 80//  <RET>

          * SAGG Global Size - High to Low Sites for DPT Global *
          Reporting Period: JUN 1998
          (High to Low)

          Site                Type                TU                Global Size
          ----                -
MIAMI                (VAX-DSM)                45                1,155,647 blks
HOUSTON              (VAX-DSM)                56                1,146,592 blks
WEST-LA              (VAX-DSM)                56                1,078,360 blks
TAMPA                (VAX-DSM)                51                1,044,636 blks
MINNEAPOLIS         (VAX-DSM)                54                1,003,926 blks
BROOKLYN            (VAX-DSM)                42                 928,243 blks
LONG-BEACH          (VAX-DSM)                45                 927,718 blks
SAN-JUAN             (VAX-DSM)                43                 877,998 blks
BOSTON              (VAX-DSM)                37                 852,388 blks
BAY-PINES           (VAX-DSM)                42                 850,620 blks
SAN-DIEGO           (VAX-DSM)                35                 813,694 blks
SAN-ANTONIO         (VAX-DSM)                56                 800,225 blks
EAST-ORANGE         (VAX-DSM)                53                 793,331 blks

Press RETURN to continue or '^' to exit:

```

## **Package Statistics Menu** **[A1B9 ISC PACKAGE STATS]**

This menu contains options that pertain to package statistics for the SAGG Project:

|    |   |
|----|---|
| PA | Package Average by System Type [A1B9 ISC PACKAGE BY SYSTEM]             |
| PC | Package Average by Complexity Level<br>[A1B9 ISC PACKAGE BY COMPLEXITY] |
| PE | Package Size at Each Site [A1B9 ISC PACKAGE AT EACH]                    |

## Package Average by System Type [A1B9 ISC PACKAGE BY SYSTEM]

This option displays the average package block size of all sites grouped into system types for a specified monthly period. It also indicates the highest and lowest package block size from the reporting sites.

### Prompt/User Response:

```

Select MONTH/YEAR to review:  JUN 1998 <RET> (JUN 1998)

Select Package to review:  REGISTRATION  <RET>      DG
DEVICE: HOME//  <RET>  TELNET  RIGHT MARGIN: 80//  <RET>

The REGISTRATION Package (Version 5.3) has the following globals:

DG          DGAM      DGBT      DGIN      DGM       DGMT      DGP       DGPM
DGPR       DGPT      DGS       DGSL      DGWAIT    DPT       ICPT      VA
VAS        VAT

      * SAGG Package Average by System Type for REGISTRATION Package *
      Reporting Period: JUN 1998

System Type:  MSM                Sites Reporting:  1
  Avg Size:  346,296 blks        Highest Size:    346,296 blks
                                      (WHITE-CITY.VA.GOV)
                                      Lowest Size:    346,296 blks
                                      (WHITE-CITY.VA.GOV)

System Type:  OpenM-NT           Sites Reporting:  4
  Avg Size:  196,644 blks        Highest Size:    282,116 blks
                                      (MONTGOMERY.VA.GOV)
                                      Lowest Size:    78,861 blks
                                      (MILES-CITY.VA.GOV)

System Type:  VAX-DSM           Sites Reporting:  90
  Avg Size:  1,264,801 blks      Highest Size:    2,830,525 blks
                                      (LITTLE-ROCK.VA.GOV)
                                      Lowest Size:    190,745 blks
                                      (FORT-HOWARD.VA.GOV)

```

## Package Average by Complexity Level [A1B9 ISC PACKAGE BY COMPLEXITY]

This option displays the average package block size of all sites grouped into complexity levels for a specified monthly period. It also indicates the highest and lowest package block size from the reporting sites.

### Prompt/User Response:

```

Select MONTH/YEAR to review:  JUN 1998 <RET> (JUN 1998)

Select Package to review:  REGISTRATION <RET>          DG
DEVICE: HOME// <RET>  TELNET    RIGHT MARGIN: 80// <RET>

The REGISTRATION Package (Version 5.3) has the following globals:

DG          DGAM      DGBT      DGIN      DGM        DGMT      DGP        DGPM
DGPR       DGPT      DGS       DGSL      DGWAIT     DPT       ICPT       VA
VAS        VAT

      * SAGG Package Average by Complexity Level for REGISTRATION Package *
      Reporting Period: JUN 1998

Complexity Level:  1          Sites Reporting:  55
  Avg Size (blks): 1,557,050 blks  Highest Size: 2,830,525 blks
                    (Mb): 1,594.42                               (LITTLE-ROCK.VA.GOV)
                                       Lowest Size:  870,733 blks
                                       (SYRACUSE.VA.GOV)

Complexity Level:  2          Sites Reporting:  20
  Avg Size (blks):  968,040 blks  Highest Size: 1,788,965 blks
                    (Mb):  991.27                               (TEMPLE.VA.GOV)
                                       Lowest Size:  254,995 blks
                                       (WHITE-RIVER.VA.GOV)

Complexity Level:  3          Sites Reporting:  17
  Avg Size (blks):  544,653 blks  Highest Size:  983,194 blks
                    (Mb):  557.72                               (TOPEKA.VA.GOV)
                                       Lowest Size:  170,602 blks
                                       (FT-HARRISON.VA.GOV)

Complexity Level:  4          Sites Reporting:   3
  Avg Size (blks):  235,758 blks  Highest Size:  346,296 blks
                    (Mb):  241.42                               (WHITE-CITY.VA.GOV)
                                       Lowest Size:   78,861 blks
                                       (MILES-CITY.VA.GOV)

```

## Package Size at Each Site [A1B9 ISC PACKAGE AT EACH]

This option displays the last reported package size of all sites in alphabetical order for a specified monthly period.

### Prompt/User Response:

```

Select MONTH/YEAR to review:  JUN 1998 <RET> (JUN 1998)

Select Package to review:  REGISTRATION <RET>          DG
DEVICE: HOME// <RET>  TELNET    RIGHT MARGIN: 80// <RET>

The REGISTRATION Package (Version 5.3) has the following globals:

DG          DGAM      DGBT      DGIN      DGM       DGMT      DGP       DGPM
DGPR       DGPT      DGS       DGSL      DGWAIT    DPT       ICPT      VA
VAS        VAT

      * SAGG Package Size at Each Site for REGISTRATION Package *
      Reporting Period: JUN 1998

ALBANY                (VAX-DSM)    1,014,398 blks
ALBUQUERQUE          (VAX-DSM)    1,559,802 blks
ALLEN-PARK            (VAX-DSM)    1,252,404 blks
ANN-ARBOR             (VAX-DSM)    1,431,665 blks
ATLANTA               (VAX-DSM)    1,383,836 blks
BALTIMORE             (VAX-DSM)    1,299,445 blks
BATTLE-CREEK         (VAX-DSM)     890,212 blks
BAY-PINES             (VAX-DSM)    1,749,533 blks
BEDFORD              (VAX-DSM)     497,883 blks
BIRMINGHAM           (VAX-DSM)    1,274,327 blks
BOSTON               (VAX-DSM)    1,870,121 blks
BROCKTON             (VAX-DSM)    1,328,456 blks
BRONX                (VAX-DSM)    1,128,839 blks
BROOKLYN             (VAX-DSM)    1,762,939 blks
BUFFALO              (VAX-DSM)    1,363,302 blks
CASTLE-POINT         (VAX-DSM)     321,891 blks

Press RETURN to continue or '^' to exit:

```

## **Zeroth Node Statistics Menu** **[A1B9 ISC ZEROth STATS]**

This menu contains options that pertain to zeroth node statistics for the SAGG Project:

|    |  |
|----|--|
| ZC | Zeroth Node Average by Complexity Level<br>[A1B9 ISC ZEROth BY COMPLEXITY] |
| ZE | Zeroth Node at Each Site [A1B9 ISC ZEROth AT EACH]                         |



**Zeroth Node at Each Site  
[A1B9 ISC ZEROth AT EACH]**

This option displays the number of entries in the specified file for all sites in alphabetical order.

**Prompt/User Response:**

```

Select FILE to review: PATIENT
DEVICE: HOME// <RET> TELNET    RIGHT MARGIN: 80// <RET>

                * ZEROth NODE AT EACH SITE *
                Reporting Period: JUN 29, 1998

File Name:    PATIENT
File Number:  2                      Global Name:  ^DPT(

```

---

|             | Session<br>Date | Number of<br>Entries | Average<br>Change<br>Per Day | File<br>Version |
|-------------|-----------------|----------------------|------------------------------|-----------------|
| ALBANY      | 06/19/1998      | 109,010              | +16.4                        | 5.3             |
| ALBUQUERQUE | 06/21/1998      | 239,646              | +41.7                        | 5.3             |
| ALEXANDRIA  | 05/21/1997      | 60,529               | +8.3                         | 5.3             |
| ALLEN-PARK  | 06/16/1998      | 142,483              | +20.5                        | 5.3             |
| ALTOONA     | 04/27/1997      | 33,074               | +4.0                         | 5.3             |
| AMARILLO    | 05/31/1996      | 63,235               | +12.8                        | 5.3             |
| ANCHORAGE   | 10/05/1995      | 60,782               | +6.3                         | 5.3             |
| ANN-ARBOR   | 06/06/1998      | 113,822              | +16.0                        | 5.3             |
| ASHEVILLE   | 05/30/1998      | 71,335               | +10.5                        | 5.3             |
| ATLANTA     | 06/12/1998      | 180,070              | +27.5                        | 5.3             |

```

Press RETURN to continue or '^' to exit:

```

# Glossary

|                     |   |
|---------------------|---|
| Block               | A unit of measure of the size of the disk used by both the operating system and M platforms. <i>DSM for OpenVMS</i> and <i>MSM-DOS</i> both have designated 1024 bytes per block while <i>OpenM-NT</i> has 2048 bytes per block.  |
| Capacity management | The process of assessing a system's capacity and evaluating its efficiency relative to workload in an attempt to optimize system performance.   |
| Collection cycle    | Occurs when the SAGG background task begins obtaining data regarding the size and efficiency of the globals on the monitored volume sets. Additionally, package and file information is collected. Normally, a site should schedule the collection cycle for every 28 days. |
| Complexity level    | A ranking order for sites based on calculated workload needs. Four levels exist with 1 being the largest and 4 being the smallest type facility.  |
| Data block          | A component of the global tree-structure that is used by the M platform to contain the actual information.  |
| Database            | A set of information, consisting of at least one file, which is specific for a given purpose. The <b>VISTA</b> database is composed of a number of VA FileMan files.  |
| DHCP model rank     | A ranking order for sites based on calculated <b>VISTA</b> workload needs.  |
| Disk model rank     | A ranking order for sites based on calculated disk capacity needs.  |
| Global              | Tree-structured system of nodes containing common data. M platforms store data on the disk in the form of global arrays. A global is composed of both pointer and data blocks.  |
| Global efficiency   | Determines the amount of space utilized within the entire block structure of a particular global. A higher efficiency indicates that the global is compacted and therefore using less disk space.   |

## Glossary

|                     |   |
|---------------------|---|
| Global size         | Determines the amount of pointer and data blocks used by a particular global.   |
| Map                 | Composed of subunits called blocks. A map consists of 400 blocks.   |
| Pointer block       | A component of the global tree-structure that is used by the M platform to find the location of data blocks.  |
| SAGG                | Statistical Analysis of Global Growth. A fully automated support tool developed by the Capacity Management (CM) team, which entails the monthly capture of global database, package and file size information from participating sites. |
| Session number      | Timestamp of when the collection cycle was run. The session number is defined from the +\$H system variable.  |
| Turn-around message | The mail message that is returned to the KMPS-SAGG mail group detailing the database and global growth over the previous reported session.  |
| Zeroth node         | The number of file entries is stored within the zeroth node of <b>VISTA</b> package files. This information is used to determine package file growth statistics.  |

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**STATISTICAL ANALYSIS OF GLOBAL  
GROWTH  
SAGG PROJECT  
USER MANUAL**

Version 1.8

July 1998

Department of Veterans Affairs  
*VISTA* Software Development  
Office of Chief Information Officer



# Preface

The Statistical Analysis of Global Growth (SAGG) Project package is intended to be utilized by IRM staff responsible for the capacity management functions at their facility. The SAGG Project allows the facility to review database, package and file size information.

The SAGG Project is strongly dependent on the site to schedule and run the collection task on a regular basis. Menus and options are provided locally at the site to allow IRM staff to accomplish and monitor this task.

The collection task obtains information on the production global, package and file information from the site and automatically transfers this data via network mail to the Capacity Management (CM) National Database.

The information in the CM National Database is fully accessible by all sites through the national FORUM system. Menus and options are provided nationally giving the site the ability to review the growth trends of their database, packages, and files.



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# Orientation

## How to Use this Manual

Throughout this manual, advice and instructions are offered regarding the use of the Statistical Analysis of Global Growth (SAGG) Project V. 1.8 software including the functionality it provides for Veterans Health Information Systems and Technology Architecture (**VISTA**).

There are no special legal requirements involved in the use of the Statistical Analysis of Global Growth (SAGG) Project V. 1.8 software.

This manual uses several methods to highlight different aspects of the material:

- Descriptive text is presented in a proportional font (as this is).
- "Snapshots" of computer online displays (i.e., roll-and-scroll dialogues) and computer source code are shown in a non-proportional font and enclosed within a box.

NOTE: Author's comments within these snapshots (if any) are displayed in italics or as "callout" boxes (callout boxes refer to labels or descriptions, usually enclosed within a box, which point to specific areas of a displayed image). User's responses to online prompts will be boldface.

- All uppercase is reserved for the representation of M code, variable names, or the formal name of options, field and file names, and security keys (e.g., the XUPROGMODE key).

## Assumptions About the Reader

This user manual is written with the assumption that the reader is familiar with the **VISTA** computing environment (e.g., Kernel Installation and Distribution System [KIDS]).

No attempt is made to explain how the overall **VISTA** programming system is integrated and maintained. Such methods and procedures are documented elsewhere. We suggest you look at the various VA home pages on the World Wide Web for a general orientation to **VISTA**. For example, check out the following web sites:

<http://www.va.gov/vama.htm#DHCP>

<http://www.vista.med.va.gov/>

This user manual does provide, however, an overall explanation of the Statistical Analysis of Global Growth (SAGG) Project V. 1.8 software.

Readers who wish to learn more about the Statistical Analysis of Global Growth (SAGG) Project V. 1.8 software should consult the following:

- *Statistical Analysis of Global Growth (SAGG) Project V. 1.8 Installation Guide*
- *Statistical Analysis of Global Growth (SAGG) Project V. 1.8 Technical Manual*
- The Kernel Toolkit Home Page (for more information on Capacity Management) at the following web address:

<http://www.vista.med.va.gov/softserv/infrastr.uct/toolkit/index.html>

This site contains additional information and documentation.

Statistical Analysis of Global Growth (SAGG) Project V. 1.8 software documentation is made available online, on paper, and in Adobe Acrobat Portable Document Format (.PDF). The .PDF documents must be read using the Adobe Acrobat Reader (i.e., ACROREAD.EXE), which is freely distributed by Adobe Systems Incorporated at the following web address:

<http://www.adobe.com/>

NOTE: *For more information on the use of the Adobe Acrobat Reader, please refer to the "Adobe Acrobat Quick Guide" at the following web address:*

<http://www.vista.med.va.gov/softserv/infrastr.uct/acrobat/index.html>