STATISTICAL ANALYSIS OF GLOBAL GROWTH (SAGG)

USER MANUAL

Version 2.0

July 1998

Revised July 2007

Department of Veterans Affairs
Veterans Health Information Technology (VHIT)
Common Services (CS)

Revision History

Documentation Revisions

The following table displays the revision history for this document. Revisions to the documentation are based on patches and new versions released to the field.

Date	Description	Author
07/1998	Initial Statistical Analysis of Global Growth (SAGG) V. 1.8 software documentation creation.	SAGG Development Team and Thom Blom, Oakland Office of Information Field Office (OIFO)
01/2005	Reformatted document to follow current ISS standards. Reviewed document and edited for the "Data Scrubbing" and the "PDF 508 Compliance" projects. **Data Scrubbing—**Changed all patient/user TEST data to conform to HSD&D standards and conventions as indicated below: • The first three digits (prefix) of any Social Security Numbers (SSN) start with "000" or "666." • Patient or user names are formatted as follows: KMPDPATIENT,[N] or KMPDUSER,[N] respectively, where the N is a number written out and incremented with each new entry (e.g., KMPDPATIENT, ONE, KMPDPATIENT, TWO, etc.). • Other personal demographic-related data (e.g., addresses, phones, IP addresses, etc.) were also changed to be generic. **PDF 508 Compliance—**The final PDF document was recreated and now supports the minimum requirements to be 508 compliant (i.e., accessibility tags, language selection, alternate text for all images/icons, fully functional Web links, successfully passed Adobe Acrobat Quick Check).	Thom Blom, Oakland, CA OIFO
07/2007	Patch SAGG v2.0 updates the SAGG PROJECT package to version 2.0. This version removes support for DSM/MSM and now uses API's from the CM TOOLS package that are not SAGG specific. The only operating systems now supported are Cache for Windows and Cache for VMS. Other documentation updates: • The KMPS-SAGG mail group is no longer in use. The KMP-CAPMAN is now used for all	Robert Kamarowski from the SAGG Development Team; Susan Strack, Oakland Office of Information Field Office (OIFO)

	notifications. • There are no new options, and they all work the same except for [KMPS SAGG STATUS]. This option now uses ListManager to the display is different.	

Table i: Documentation revision history

Patch Revisions

For a complete list of patches related to this software, please refer to the Patch Module on FORUM.

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Orientation

How to Use this Manual

The purpose of this manual is to provide information about the Statistical Analysis of Global Growth (SAGG) Version 2.0 software. This manual defines the use of this software as a resource to Information Resource Management (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 FORUM.

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

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

- Various symbols are used throughout the documentation to alert the reader to special information. The following table gives a description of each of these symbols:

Symbol	Description
	Used to inform the reader of general information including references to additional reading material.
	Used to caution the reader to take special notice of critical information.

Table ii: Documentation symbol descriptions

- Descriptive text is presented in a proportional font (as represented by this font).
- Conventions for displaying TEST data in this document are as follows:
    - The first three digits (prefix) of any Social Security Numbers (SSN) will be in the "000" or "666."
    - Patient and user names will be formatted as follows: [Application Name]PATIENT,[N] and [Application Name]USER,[N] respectively, where "Application Name" is defined in the Approved Application Abbreviations document and "N" represents the first name as a number spelled out and incremented with each new entry. For example, in Kernel (KRN) test patient and user names would be documented as follows: KRNPATIENT,ONE; KRNPATIENT,TWO; KRNPATIENT,THREE; etc.
- HL7 messages, "snapshots" of computer online displays (i.e., roll-and-scroll screen captures/dialogues) and computer source code, if any, are shown in a *non*-proportional font and enclosed within a box.
    - User's responses to online prompts will be boldface type. The following example is a screen capture of computer dialogue, and indicates that the user should enter two question marks:

```
Select Primary Menu option: ??
```

- The "**<Enter>**" found within these snapshots indicate that the user should press the Enter key on their keyboard. Other special keys are represented within < > angle brackets. For example, pressing the PF1 key can be represented as pressing **<PF1>**.
- Author's comments, 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.

- 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).

How to Obtain Technical Information Online

Exported file, routine, and global documentation can be generated through the use of Kernel, MailMan, and VA FileMan utilities.

Methods of obtaining specific technical information online will be indicated where applicable under the appropriate topic.

Help at Prompts

VistA software provides online help and commonly used system default prompts. Users are encouraged to enter question marks at any response prompt. At the end of the help display, you are immediately returned to the point from which you started. This is an easy way to learn about any aspect of VistA software.

To retrieve online documentation in the form of Help in any VistA character-based product:

- Enter a single question mark ("**?**") at a field/prompt to obtain a brief description. If a field is a pointer, entering one question mark ("**?**") displays the HELP PROMPT field contents and a list of choices, if the list is short. If the list is long, the user will be asked if the entire list should be displayed. A **YES** response will invoke the display. The display can be given a starting point by prefacing the starting point with an up-arrow ("^") as a response. For example, **^M** would start an alphabetic listing at the letter M instead of the letter A while **^127** would start any listing at the 127th entry.
- Enter two question marks ("**??**") at a field/prompt for a more detailed description. Also, if a field is a pointer, entering two question marks displays the HELP PROMPT field contents and the list of choices.
- Enter three question marks ("**???**") at a field/prompt to invoke any additional Help text stored in Help Frames.

Obtaining Data Dictionary Listings

Technical information about files and the fields in files is stored in data dictionaries. You can use the List File Attributes option on the Data Dictionary Utilities submenu in VA FileMan to print formatted data dictionaries.

For details about obtaining data dictionaries and about the formats available, please refer to the "List File Attributes" chapter in the "File Management" section of the *VA FileMan Advanced User Manual*.

Assumptions About the Reader

This manual is written with the assumption that the reader is familiar with the following:

- VistA computing environment (e.g., Kernel Installation and Distribution System [KIDS])
- VA FileMan data structures and terminology
- Microsoft Windows
- M programming language

It provides an overall explanation of configuring the Statistical Analysis of Global Growth (SAGG) interface and the changes contained in Statistical Analysis of Global Growth (SAGG) Version 2.0. However, 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 (WWW) for a general orientation to VistA. For example, go to the Veterans Health Administration (VHA) Office of Information (OI) Health Systems Design & Development (HSD&D) Home Page at the following Web address:

http://vista.med.va.gov/

Reference Materials

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

- *Statistical Analysis of Global Growth (SAGG) Installation Guide*
- *Statistical Analysis of Global Growth (SAGG) User Manual* (this manual)
- *Statistical Analysis of Global Growth (SAGG) Technical Manual*
- Capacity Planning (CP) Services' Home Page (for more information on Capacity Planning) at the following temporary Web address:

  http://vista.med.va.gov/capman/CP_Tools.asp

  This site contains additional information and documentation.

VistA documentation is made available online in Microsoft Word format 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/

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://vista.med.va.gov/iss/acrobat/index.asp

VistA documentation can be downloaded from the Health Systems Design and Development (HSD&D) VistA Documentation Library (VDL) Web site:

http://www.va.gov/vdl/

VistA documentation and software can also be downloaded from the Enterprise VistA Support (EVS) anonymous directories:

- Albany OIFO ftp.fo-albany.med.va.gov
- Hines OIFO ftp.fo-hines.med.va.gov
- Salt Lake City OIFO ftp.fo-slc.med.va.gov
- Preferred Method download.vista.med.va.gov

  This method transmits the files from the first available FTP server.

DISCLAIMER: The appearance of external hyperlink references in this manual does *not* constitute endorsement by the Department of Veterans Affairs (VA) of this Web site or the information, products, or services contained therein. The VA does *not* exercise any editorial control over the information you may find at these locations. Such links are provided and are consistent with the stated purpose of this VA Intranet Service.

1. Introduction

The Veterans Health Administration (VHA) developed the Statistical Analysis of Global Growth (SAGG) software 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 Statistical Analysis of Global Growth (SAGG) software is intended to be utilized by Information Resource Management (IRM) staff responsible for the capacity management functions at their facility. The SAGG Project software allows the facility to review database, software, 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, software, and file information from the site and automatically transfers this data via network mail to the Capacity Planning (CP) National Database.

The information in the CP 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, software, and files.

2. Functional Description and Use of Software

SAGG is a fully automated support tool developed by the Capacity Planning (CP) team, which entails the monthly capture of global database, software, 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 software is compatible with Cache for Windows and Cache for VMS operating systems.

Installing the SAGG Project software creates the collection process mechanism and other necessary components of the software. The fully automated data collection cycle entails capturing all production global, software, 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 Planning (CP) 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 software. IRM staff responsible for capacity management tasks at the site can also use the options available on FORUM. The options on FORUM allow them to review growth trends of their database, software, and file size.

System Requirements

Software Dependencies

This distribution of the Statistical Analysis of Global Growth (SAGG) software Version 2.0, Patch KMPS*2*0, is dependent on Patches KMPD*2.0*6 and XU*8.0*456. Patch KMPS*2*0 is a Kernel Installation and Distribution System (KIDS) software release. SAGG Installation Instructions can be found in the description for Patch KMPS*2*0, located on the Patch Module (i.e., Patch User Menu [A1AE USER]) on FOURM.

Upgrading From a Previous Version of SAGG Related to Patch XU*8.0*456

If your site is upgrading from a previous version of SAGG, Patch XU*8.0*456 MUST be installed for SAGG 2.0 to work with Cache Version 5.2.

Virgin Installations of SAGG Related to Patch XU*8.0*456

If your site is installing SAGG for the first time, Patch XU*8.0*456 MUST be installed for the SAGG Master Background Task Option [KMPS SAGG REPORT] to work.

Software Management

The SAGG Project software 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 software and other capacity planning 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 them on FORUM. This menu allows them to review growth trends of their database, software, and file size.

3. SAGG Project Manager Menu

This section covers the SAGG Project Manager Menu [KMPS SAGG MANAGER] that is located locally at the site. This menu will help the site to manage the SAGG (Statistical Analysis of Global Growth) Project. 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.

```
SAGG Project Manager Menu                                    [KMPS SAGG MANAGER]
    Check SAGG Environment                                    [KMPS SAGG STATUS]
    Edit SAGG Project File                                      [KMPS SAGG FILE]
    Stop SAGG Collection                                        [KMPS SAGG STOP]
```

Figure 3-1: SAGG Project Manager Menu options

Check SAGG Environment [KMPS SAGG STATUS]

The Check SAGG Environment option [KMPS SAGG STATUS] will check the environment of the SAGG (Statistical analysis of Global Growth) Project. In addition to providing information regarding the SAGG collection routines, this option will check the status of SAGG patch installation at the site.

```
KMPD STATUS                      Jul 10, 2007 13:58:28          Page:    1 of    3
                                Environment Check for
                                      KMPS v2.0

   Current Status.............. SCHEDULED

   SAGG Master Background Task. KMPS SAGG REPORT
   QUEUED TO RUN AT............ AUG 04, 2007@19:30 (Saturday)
   RESCHEDULING FREQUENCY...... 28 days
   TASK ID..................... 7902547
   QUEUED BY................... POSTMASTER  (Active)

   Temporary collection global.
   ^XTMP("KMPS")............... NOT Present

   SAGG Project collection routines will monitor the following:

          _$1$DGA4:[CPRO.PRQ]
          _$1$DGA4:[CPRO.VAA]
          _$1$DGA4:[CPRO.XMB]
          _$1$DGA4:[CPRO.XMO]
          _$1$DGA4:[CPRO.ZZA]
          _$1$DGA6:[CPRO.VAC]

            Enter ?? for more actions

Select Action:Next Screen// <Enter> NEXT SCREEN

KMPD STATUS                      Jul 10, 2007 13:58:28          Page:    2 of    3
                                Environment Check for
                                      KMPS v2.0
```

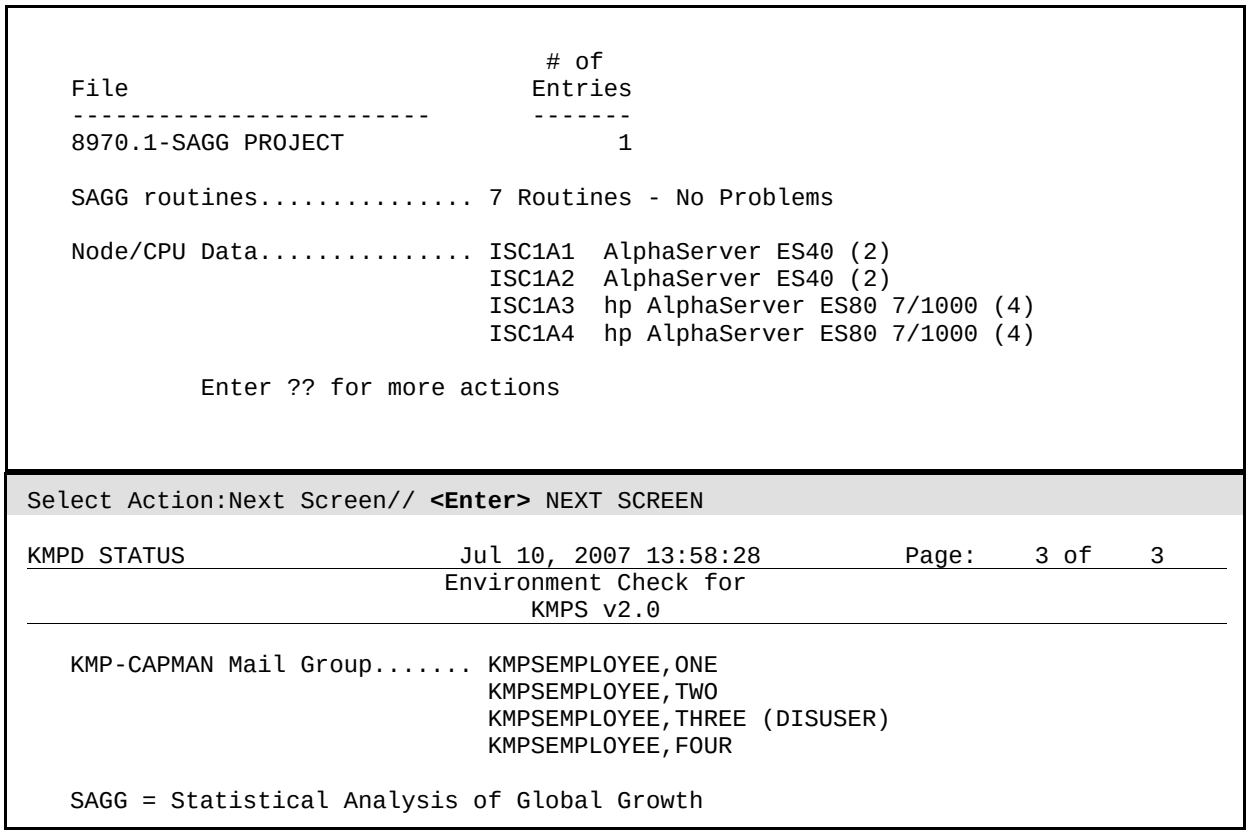

Figure 3-2: Check SAGG Environment option—Sample user dialogue and report

Edit SAGG Project File [KMPS SAGG FILE]

The Edit SAGG Project File option [KMPS SAGG FILE] 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.

```
Select SAGG Project Manager Menu Option: EDIT SAGG Project File

Specify the Directories which hold your VistA production globals.

For example:

     Cache for OpenVMS =>  _$1$DKAn:[CACHSYS.VAA] ... _$1$DKAx:[CACHSYS.Vxx]

Do NOT specify 'test/training' Directories, (i.e., UTL,TST, etc.).

Select VOLUME SET TO MONITOR: _$1$DGA6:[CPRO.VAC]
         //
  VOLUME SET TO MONITOR: _$1$DGA6:[CPRO.VAC]//
Select VOLUME SET TO MONITOR:
```

Figure 3-3: Edit SAGG Project File option—Sample user dialogue

Stop SAGG Collection [KMPS SAGG STOP]

The Stop SAGG Collection option [KMPS SAGG STOP] informs the SAGG Project collection routines to begin an orderly shutdown process. Each collection routine stops after reaching an appropriate break point.

```
                        SAGG Project Status
                             KMPS v2.0

     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: <Enter>

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.
```

Figure 3-4: Stop SAGG Collection option—Sample user dialogue and report

SAGG Master Background Task [KMPS SAGG REPORT]

The SAGG Master Background Task option [KMPS SAGG REPORT] 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:

```
Select OPTION to schedule or reschedule: KMPS SAGG REPORT <Enter>   (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
```

Figure 3-5: SAGG Master Background Task option—Sample user dialogue and report

Glossary

BLOCK	A unit of measure of the size of the disk used by both the operating system and M platforms. Cache BLOCKS are typically 8192 bytes (8k).
CAPACITY PLANNING	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, software 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 VistA database is composed of a number of VA FileMan files.
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.
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.
MODEL RANK	A ranking order for sites based on calculated VistA workload needs.
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 Planning (CP) team, which entails the monthly capture of global, database, software, 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 VistA software files. This information is used to determine software file growth statistics.

For a comprehensive list of commonly used infrastructure- and security-related terms and definitions, please visit the ISS Glossary Web page at the following Web address:

http://vista.med.va.gov/iss/glossary.asp

For a list of commonly used acronyms, please visit the ISS Acronyms Web site at the following Web address:

http://vaww.vista.med.va.gov/iss/acronyms/index.asp

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