



SYSTEM INSTALLATION & MAINTENANCE
GUIDE
FOR
BROADSWORD KEYMASTER
VERSION 3.0



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Forward

The following DRRs have been incorporated into this document:

<u>DRR#</u>	<u>Short Description</u>
4636.3	New screen capture with SIPRNET and JWICS
4888.3	File permissions and ownerships not defined
69484.3	Fixed spelling of Auditing in Figures 1.2, 1.3, and 1.4
69485.3	Changed “the the” to “the” on page 6
69486.3	Spelling – Changed “Logger” to “Logged”
69487.3	Grammar – Changed “Table” to “Tables”
69806.3	Clarified install procedure
70103.3	Added List of POCs
70229.3	Fixed Bad Install Paths
70230.3	Fixed Numbering in Configuration Worksheet
70296.3	Added Instructions for Starting the Keymaster
71339.3	Added a note about Sybase problem calculating free disk space

Chapter 1

Introduction

The purpose of the System Installation & Maintenance Guide is to provide detailed procedures to install a new copy of Broadsword Keymaster Version 3.0 or to upgrade an existing Version 2.0 system. It also provides configuration information and discussion on tools provided to maintain the system.

This document is divided into four parts: (1) Installation, (2) Configuration, (3) Maintenance and (4) ISSO. The remainder of this chapter provides an overview of the Broadsword system, its architecture and functionality and an overview of the installation process.

1.1 Installation Overview

The Installation of the system consists of three major sections: (1) installation, (2) configuration and (3) removal. The purpose of the installation process is to download the software, create the database and enter the necessary configuration information to bring up an initial copy of the system. The configuration process takes this initial system and configures it by adding site specific data. The configuration process adds local sources, allows editing of system and Gatekeeper values, registers the local Gatekeeper with the community, configures remote sources and tailors data elements. The upgrade process assumes that there is a previous version of the system already installed and operational. Provided as part of the installation process is the ability to remove the older version. This process is kept separate from the actual installation since it is believed that the both versions will be run for some time until the site has the confidence that the new version has been successfully installed. At this time, the site can then execute the procedure provided in Appendix C.

Figure 1.1 provides an outline of the procedures, which will be followed to perform the installation.

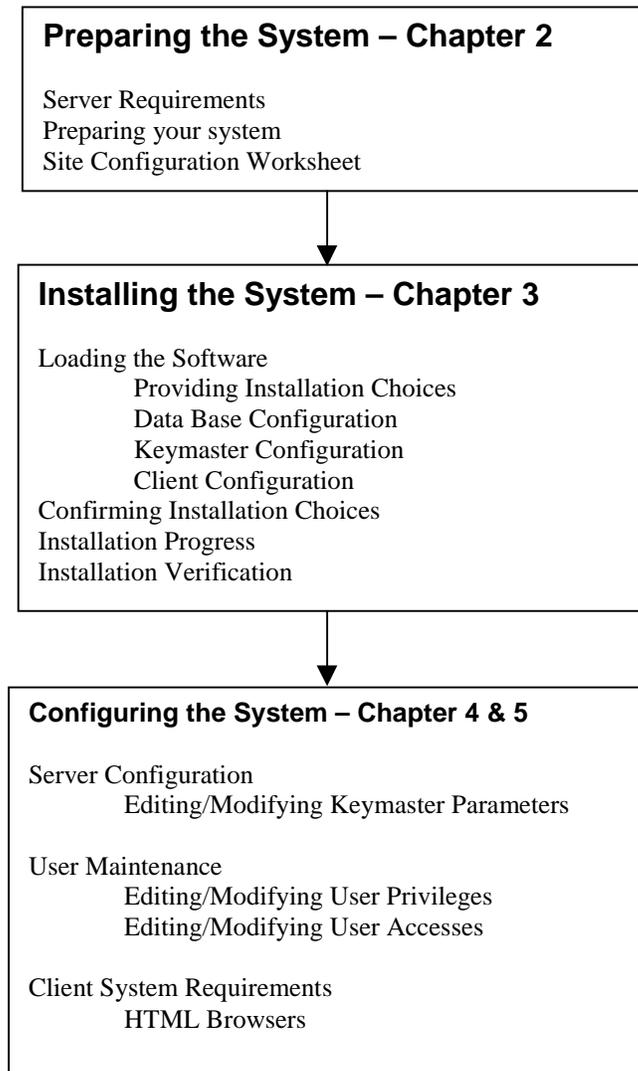


Figure 1.1 Installation Procedure Outline

1.2 System Description

Broadsword implements a multi-tier architecture supporting a single, seamless interface that is secure and administratively manageable. The Broadsword architecture can be divided into five functional components. These components collectively act on behalf of all parties (ISSO, System Administrator and User) and are tailored to meet the connectivity requirements of the site. Table 1.1 provides an overview of each component.

Functional Component	Purpose
Gatekeeper	Provides single interface to various sources for query, retrieval, and product request/delivery. It also provides a single point in which users are authenticated and all actions audited.
Keymaster	Acts as a global map manager allowing for Gatekeepers and their sources to become accessible to others who register with the same Keymaster
Access and Authentication Module (AAM)	Provides a single place where all user access and authentication information is kept. This service is bundled with the Gatekeeper (for local administration) and is accessible by authorized Keymaster administrators (for regional administration). It also supports the creation of a “yellow page” lookup of users via the use of the Lightweight Directory Access Protocol (LDAP).
Broadsword Client	User interface which implements the Client/Gatekeeper API and provides ISSO, System Administrator and General Searching capabilities.

Table 1.1 – Summary of Broadsword Functional Components

1.2.1 Gatekeeper

The Gatekeeper component is the heart of the overall architecture. It is a robust, thin layer of software which performs a variety of internal functions, including processing users' queries; auditing; communicating with various sources; interconnecting with other Gatekeepers; maintaining system status; and collection/compilation of results. The Gatekeeper supports a single Application's Programmer's Interface (API) for developers to access the functionality provided and to create applications. The API is based on a simple message passing mechanism and is divided into three sections: (1) User, (2) Administration and (3) ISSO. Figure 1.2, shows the overall architecture of the Gatekeeper.

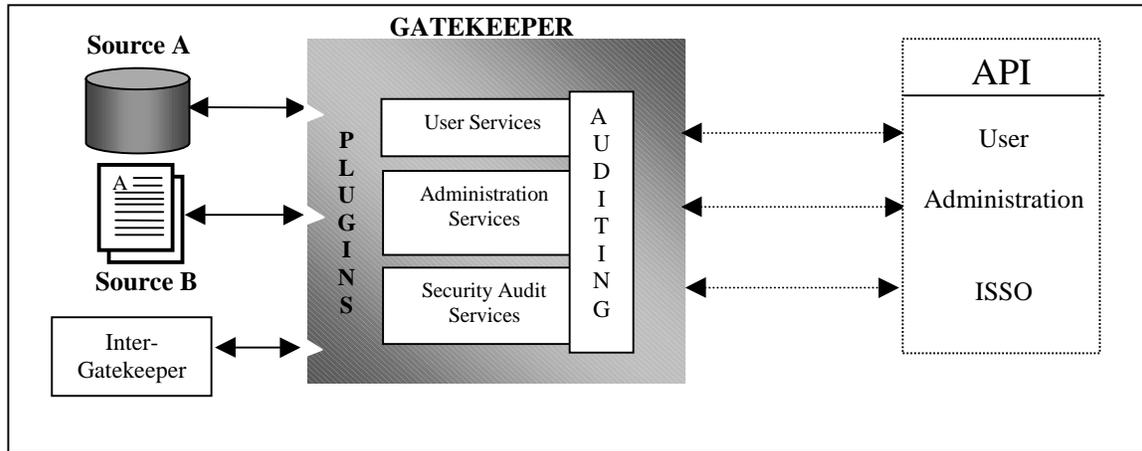


Figure 1.2 - The Overall Gatekeeper Architecture

1.2.1.1 User Services

The Gatekeeper provides support for the processing of user requests, collating the results, delivering products and converting/compressing supported imagery. User requests can be keyword, spatial or SQL based. The availability of request options is dependent upon the sources connected and what each source supports. Once a request has been submitted, the Gatekeeper audits the request, forwards it to all appropriate sources via plug-ins and waits for each of the sources to respond. Upon receiving the results from each of the sources, the Gatekeeper combines the results into a single response, builds an audit record and forwards the response to requester. Figure 1.3 summarizes the major functionality provided by the Gatekeeper through the User Services portion of the interface.

Some of the sources that are connected to the Gatekeeper may support the ordering and delivery of products. Products include reports from database sources, messages, documents, video clips, maps and images. Delivery mechanisms from the individual sources include: (1) tasking for non-real-time mail order delivery, (2) tasking for FTP delivery and (3) near-real-time FTP delivery.

A number of the imagery sources provide varying degrees of conversion and compression support. As a minimum, each source stores imagery using the National Imagery Transfer Format (NITF) 2.0. This standard supports many levels of compression, bit sizes and storage formats. There are a number of commercial products that can view the full range of NITF storage options. To provide for a wider range of users (those who don't have nor wish to pay for a special application), the Gatekeeper provides conversion support to TIFF 6.0 and JPEG formats.

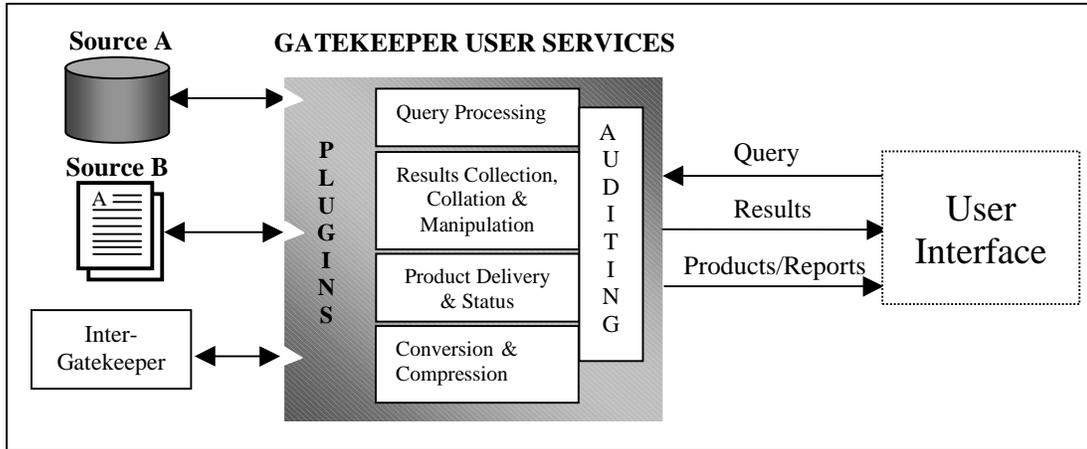


Figure 1.3 – User Services

1.2.1.2 Administration Services

Under Administration Services the Gatekeeper provides an interface for user maintenance, system statistics and system configuration. Access to the functionality provided by these services is limited to authorized users only. Under User/Group Maintenance, the system administrator creates and configures user accounts and groups. User accounts use one of two models. The first mode (used under Broadword version 2.0) is a combination of Sun Tools/CSE-SS and the Broadword Administrative Interface. User account creation and password maintenance is managed through CSE, while Broadword roles and source accesses are maintained through the Broadword Administration Interface. The problem identified with this approach is the fact that the System Administrator is required to go to two places to manage user accounts. To correct this situation and support the capability for regional administration, Broadword version 3.0 introduced the Access and Authentication Module (AAM). The role that AAM plays in the architecture is described in more detail in section 1.2.3. Each user can be assigned to one or more groups and have access to various sources. Members of groups share sources assigned to the group, privileges, and queries/results. Groups are created and configured through Group Maintenance. A user can also be assigned a default look and feel through template maintenance. Through this capability, the site can create site tailored look and feels for their users.

System Statistics provides Gatekeeper statistics, includes a listing of the most frequently accessed products and the most frequently processed queries. In System Configuration, the system administrator configures the Gatekeeper, adds/removes backside sources, defines values for attributes and establishes connectivity with other Gatekeepers through registration with the Keymaster (described in section 1.2.2). Figure 1.4 summarizes the major functionality provided by the Administration Services.

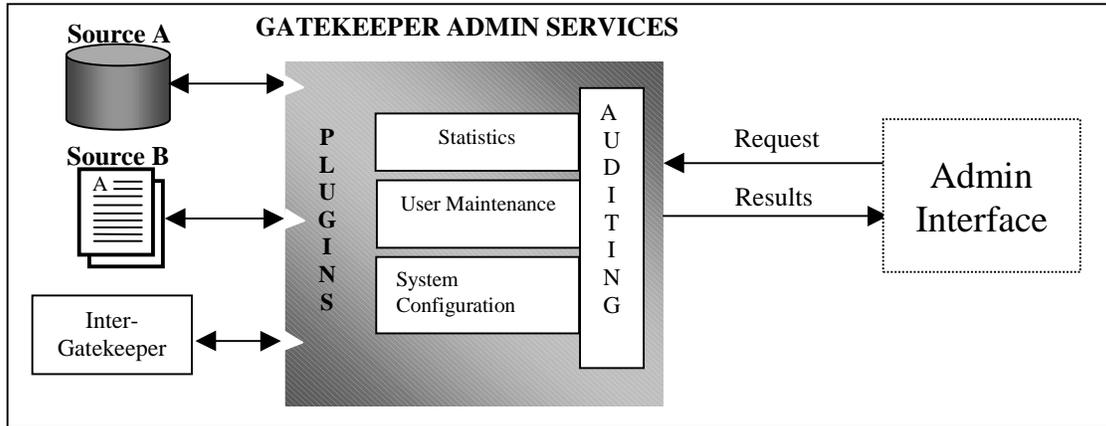


Figure 1.4 – Administration Services

1.2.1.3 Security Audit Review

The Security Audit Review Interface provides the ability to view, archive, and remove audit information. Those records that have been archived are also available for review. All audits are stored in a database. Broadword version 3.0 offers Sybase as the database engine during the installation. Security records can be filtered based on any one event, user name and/or time range. Table 1.2 provides a summary of the events that are audited by the Gatekeeper.

Gatekeeper Security Audits		
User Events:		
Catalog Request	Transfer Request	User Logged In
Query	User Change Password	User Logged Out
Administration Events:		
Accept Registration from Remote Gatekeeper	Gatekeeper Stopped	Removed Group
Added Discretionary Access Control (DAC)	Get Column Attributes	Removed Group Member
Added Group	Initiate Stream Request	Remove Source
Added Group Member	Modified Element	Remove User
Added New Source	New or Updated Gatekeeper Info	Set Source Parameter
Added User Privileges	Register Our Gatekeeper With Keymaster	Set User Discretionary Access Control (DAC)
Clear Statistics	Remove Discretionary Access Control (DAC)	Terminate Stream Request

Gatekeeper Started	Removed Remote Gatekeeper	Update Daemon Status
ISSO Events:		
Audit Dump	Get Audit Archive List	Got Audit Report
Delete Audit		

Table 1.2 Summary of Security Audits

The certifying authority uses the audit trail dumps, in conjunction with the system audit logs, to validate security auditing requirements. There are three Sybase audit log formats used within Broadword. Table 1.3a shows a sample Audit Report. This report identifies the user, the client, the date and time of the request, the destination address for product transfers, the type of action requested, the result of the action requested and the unique session identifier.

UserID	Client ID	Date/Time	Destination ID	Action	Result	Session Key
test01	128.132.888.888	950126 18:01		Query	Project Broadword: 00085 Hits	5607
test01	128.132.888.888	950126 18:16		Query	Project Broadword: 00085 Hits	5607
test01	128.132.888.888	950126 18:16	128.132.888.899	Query	Project Broadword: 00085 Hits	5607
test01	128.132.888.888	950126 18:16	128.132.888.898	Query	Project Broadword: 00085 Hits	5607

Table 1.3a – Sample Audit Report

Table 1.3b provides a sample Product Request Report. The Product Request Report provides information about a product transfer. In addition to the information provided on the original query, this report provides Server ID.

UserID	Client ID	Date/Time	Access ID	Server ID	Session Key
test01	128.132.999.999	950126 21:35	IPA_16193533ZNov94_061488	128.132.989.989	5607
test01	128.132.999.999	950126 21:38	IPA_16193533ZNov94_061488	128.132.989.989	5607
test01	128.132.999.999	950126 21:41	IPA_16193533ZNov94_061488	128.132.989.989	5607

Table 1.3b – Sample Product Request Audit Report

The Query Report provides information about data returned for individual hits. In addition to the information provided on the original query, this report provides the Access ID and the Server ID for the Server performing the query. Table 1.3c provides a sample of this report type.

UserID	Client ID	Date/Time	Access ID	Server ID	Session Key
test01	128.132.999.999	950126 20:33	IPA_19153415ZJan95_216672	128.132.999.888	5607
test01	128.132.999.999	950126 20:33	IPA_19153608ZJan95_213744	128.132.999.888	5607
test01	128.132.999.999	950126 20:33	IPA_19153611ZJan95_849	128.132.999.888	5607

Table 1.3c – Sample Query Response Audit Report

1.2.2 Keymaster

Sources at a site can be made available to other sites through the Gatekeeper to Gatekeeper connection. Gatekeepers have the ability to communicate with each other and their respective sources as long as each site has registered their Gatekeeper with a Keymaster. The Keymaster manages a list of all Gatekeepers and their sources that have registered with it. During the registration process, a Gatekeeper receives the global map. The global map identifies all other Gatekeepers and sources. Queries and product requests performed between the available Gatekeepers do not involve the Keymaster. Changes in a specific Gatekeeper’s configuration are propagated up to the registered Keymaster and are then propagated back down to all other Gatekeepers.

Broadsword version 3.0 supports regional user maintenance. User accounts can be created and configured at the Keymaster for a specified registered Gatekeeper. Figure 1.5 shows the Broadsword architecture with two Gatekeepers and a Keymaster.

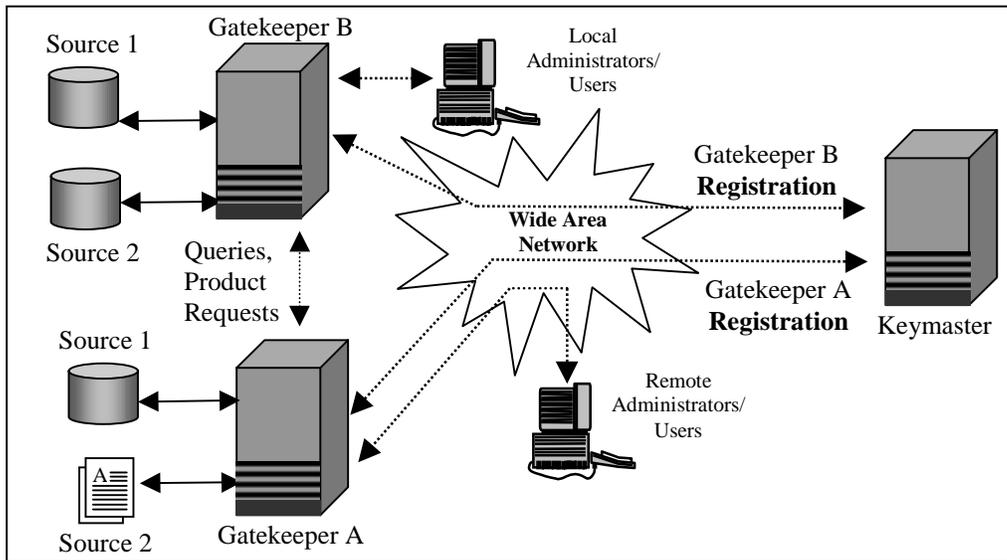


Figure 1.5 – Gatekeeper/Keymaster Architecture

The Keymaster uses a subset of the API libraries provided as part of the Gatekeeper. Specifically, it uses the login process, its associated user administration capability and ISSO functionality. Table 1.4 provides a list of auditable events within the Keymaster.

Keymaster Security Audits		
User Events:		
User Change Password	User Logged In	User Logged Out
Administration Events:		
Accept Registration From Remote Gatekeepers	Keymaster Stopped	Remove Remote Gatekeeper
Added Discretionary Access Control (DAC)	New or Updated Gatekeeper Info	Remove User Privileges
Added Group	Register Our Gatekeeper With Keymaster	Set User Discretionary Access Control (DAC)
Added Group Member	Removed Discretionary Access Control (DAC)	Set User Info
Added User Privileges	Removed Group	Update Daemon Status
Keymaster Started	Removed Group Member	
ISSO Events:		
Audit Dump	Get Audit Archive List	Got Audit Report
Delete Audit		

Table 1.4 Summary of Security Audits

1.2.3 Access and Authentication Module (AAM)

To create and configure a user within Broadsword version 2.0, the administrator must first create a user account through either the SUN operating system (SUN Tools) or through CSE-SS and then use the Broadsword administration tools to add privileges/sources. At best, this process is disjointed and requires the administrator to know/understand multiple interfaces and applications. To alleviate this problem and to implement additional user requirements, Broadsword version 3.0 has introduced the Access and Authentication Module (AAM). To support existing deployments of Broadsword 2.0, version 3.0 supports and is backward compatible with the current 2.0 user maintenance infrastructure.

The overall goal of the AAM is threefold. The first is to provide the Broadsword administrator a single interface to create and configure user accounts. The second goal of the AAM is to provide for regional user maintenance. Administrators are not available at all locations. There exists the requirement to create user accounts at a central location. The final goal is to automatically create a global directory service through which users can find information about other users. This capability must be compatible with the Lightweight Directory Access Protocol (LDAP) initiative being pursued by the Intelligence Community (IC) and DoD.

The trend within the IC and DoD is to use Netscape's LDAP to store all user information. The IC LDAP schema is designed as an on-line phone book or "yellow pages" directory service. It contains information

describing the user. It does not contain the necessary information to maintain and manage user passwords. Data such as password history, account lock/unlock, and number of invalid login attempts are a few attributes that need to be maintained in order to provide an accreditable user authentication module. The AAM provides a single interface through which all user and system access information is accessed and maintained. The AAM is accessed through the Gatekeeper Administration API. The information required is divided into three parts; user information, password management and system configuration.

By separating user information from password management, each Gatekeeper will have a pure LDAP schema as defined by the IC as well as all of the necessary information to perform a reasonable level of authentication information and password management. The list of necessary information, and the requirements that dictated this list, was derived from the password and user authentication policies provided by CSE-SS. These include:

- Password Expiration
- Dictionary Attack
- Account Locking/Unlocking
- Bad Password Checking
- Password History

Tables 1.5a and b provides a list of those items that are stored and in which storage mechanism.

Gatekeeper Configuration File	Database
Number of bad Login attempts before account locked	User Identification
Number of days before password expires	User Identification password (Encrypted using CRYPT or MD5)
Minimum password size	Space delimited list of OLD PassWorDs (Encrypted using CRYPT or MD5)
Maximum password size	Last Date/Time of Password Changed (YYYYMMDDhhmmss)
Minimum number of special characters required in a password	Account locked (Y/N)
Number of passwords saved in user's password history	Number of bad login ATTEMPTS
LDAP Host IP	
LDAP Port	
LDAP root Distinguished Name	
LDAP root password (Encrypted)	

Table 1.5a – AAM Gatekeeper/Database Attributes

LDAP Schema

Mandatory Attributes:		
Citizenship	Given Name	Name
Surname		
Policy-based Attributes:		
Employee Type	Intelligence Community Email	Telephone: Unclassified Voice Phone Number
Home Organization	PKI: Certificate	
Optional Attributes:		
Company Name	Physical Address	Phone: Secure Facsimile Number
Current Organization	Physical Building Name	Phone: Secure Telephone Number
Email: Internet Address	Physical City	Phone: Unclassified Fax Phone Number
Email: Nipnet Address	Physical State or Province	Title
Email: Sipnet Address	Physical Postal Code	User Identification
Grade	Physical Country Name	Expert Country
Mailing Address	PKI: Authority Revocation List	Expert Functional Area
Telephone: DSN Voice Phone Number	PKI: CACertificate	Production Manager
Telephone: Secure Facsimile Number	PKI: Certificate Revocation List	Language Proficiency
Middle Initials	Telephone: DSN Voice Phone Number	

Table 1.5b – AAM LDAP Attributes

All users will be assigned a specific Gatekeeper through which they will log into the system and perform all requests. The local system administrator can add user accounts to the Gatekeeper. Figure 1.6 provides an overall architecture.

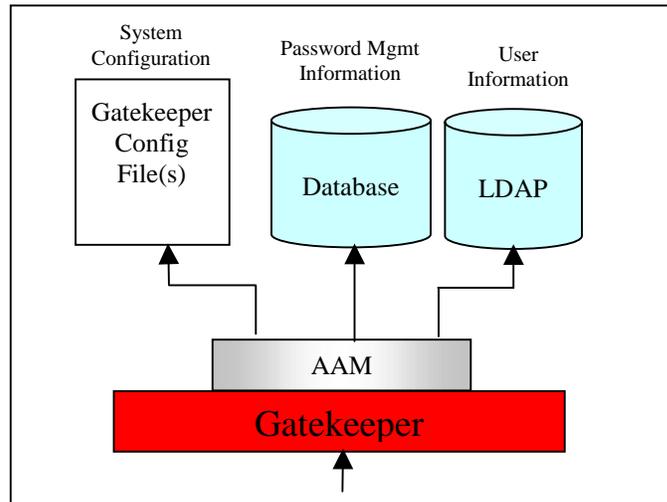


Figure 1.6 – Access & Authentication Module Architecture

The AAM also supports the ability to perform regional user maintenance. User accounts can be created/maintained remotely through the Keymaster and its interface. Keymaster administrators must be granted privilege from the local Gatekeeper administrator to allow not only the Keymaster but also the particular Keymaster administrator permission for remote access. Before the Keymaster client is permitted to access the AAM to create/modify a user account, the two components (Keymaster and Gatekeeper) must authenticate themselves.

1.2.3.1 LDAP Replication

Information stored in the Gatekeeper LDAP can be replicated (via Netscape's replication service) to any other registered LDAP server. LDAP servers can exist anywhere in the network. An LDAP server may reside on the same server as that of the Keymaster or exist on one of the servers that is part of the JIVA Enterprise. Registered LDAP servers must have valid Digital Certificates and be configured to communicate through the use of Secure Sockets Layer (SSL). Digital certificates will be obtained through the Intelink System Management Center's (ISMC) Certificate Authorities. Since Broadsword's LDAP servers contain only user information as designed by the IC, it is acceptable to supply this information to other registered LDAP servers. Figure 1.7 provides a high-level architecture diagram illustrating a scenario where the AAM and LDAP servers exist.

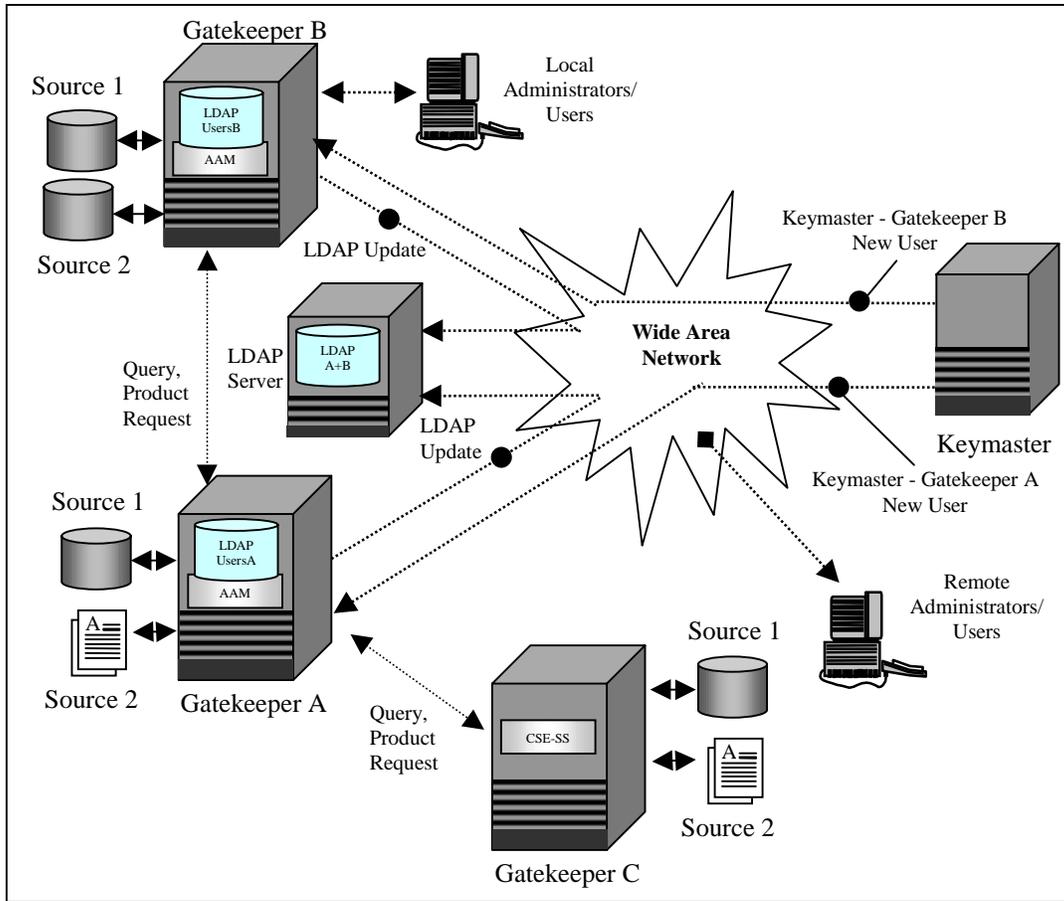


Figure 1.7 – Gatekeeper/Keymaster with LDAP Architecture

A Gatekeeper using the Broadword version 2.0 user maintenance will still be capable of registering with the Keymaster and participating with other Gatekeepers (both version 2.0 and 3.0), but will be unable to support regional user maintenance and LDAP user information.

1.2.4 The Broadword Client

Broadword provides a User Interface to access the Gatekeeper and local data sources. It is Web-based and supports multiple roles. Roles are assigned on an individual user basis and can include one or more functions: Searching, Administration and ISSO.

The user will log into the system from the main screen; based on the user's login, the main screen will be tailored to what roles that have been assigned by the site System Administrator. The following paragraphs provide an overview of the functionality supported through the client interface. Figure 1.9 shows the overall User Interface Architecture.

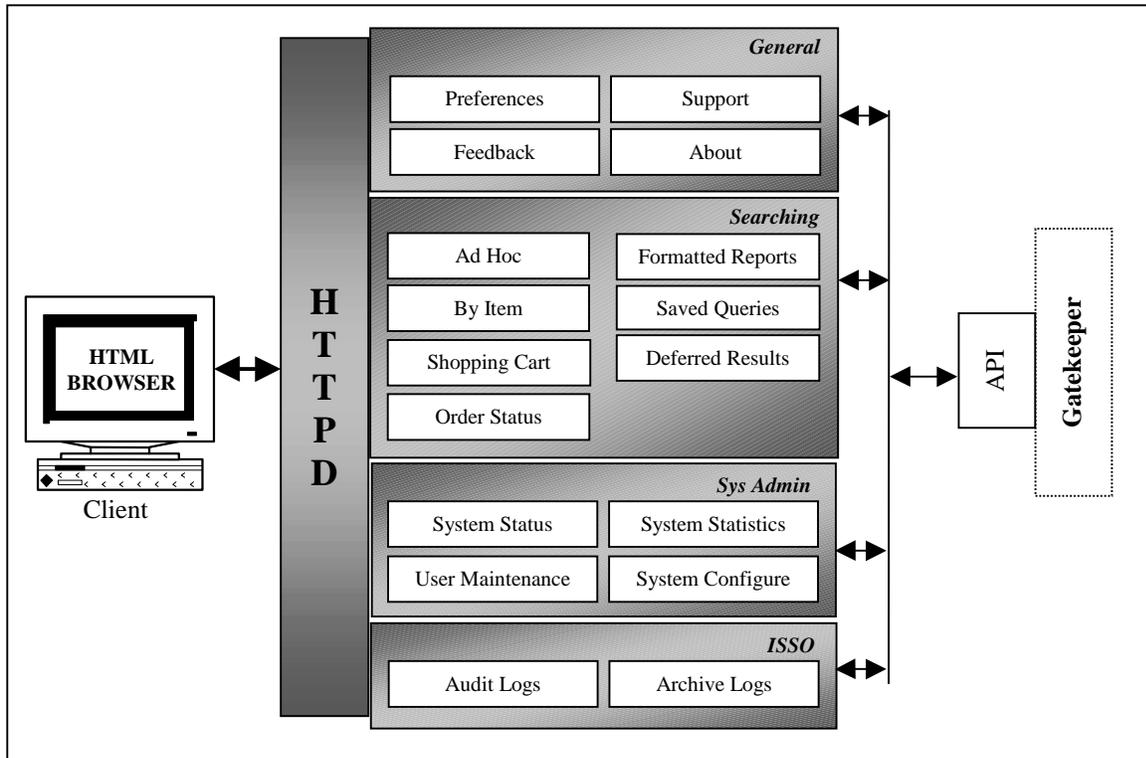


Figure 1.9 - Broadsword Client Architecture

1.2.4.1 General

The Preferences section allows the user to set up their default values and is split into six separate pages: (1) General Registration & Default First Page; (2) Information Support; (3) Delivery Options; (4) What and Where to Search and Search Utilities; (5) Attribute Configuration and (6) Remote Access. Users are able to define what their Search Tools page looks like, which data sources to search, and their preferred search mechanism. The Feedback page allows the user to provide on-line suggestions and comments about the interface. This form is pre-filled with information provided on the Preferences page. The Support page provides a listing of points of contact for requirements, help desk, site system administration, site ISSO and site Intelink officer. The About page provides the version number of the system, and whom the current copy is registered to. These capabilities are provided to all users regardless of their roles.

1.2.4.2 Searching

Under Searching, the user is provided with tools to discover, navigate and retrieve information across various sources. Searching capability is given to any user that has been given a login and password. Searching is divided into two functional capabilities: Ad Hoc and By Item.

Users are able to choose between a keyword search utility (Find), an SQL form-based utility (Query), or a spatial tool (Geographic Search). In addition, users are able to combine these search tools and configure what method they prefer through the Define Search Page preference. This preference represents the search mechanism they use the most, and that will be displayed. Should the user select search tools as

their default first page, then this search mechanism will be displayed immediately after login. Thus, the Search Form page is a single user-selected page, tailored to each user's preference.

Provided off the spatial tool, is the ability to turn on broadcast feeds (e.g., TRAP/TRE). The user can use these feeds for tip off of potential activity within a given Area Of Responsibility (AOR) and request additional/available information of the area through the request mechanism.

The results page displays all records matching the user's query. There are two methods supported under searching; Ad Hoc and By Entity. Selecting Ad Hoc allows the user to search all sources simultaneously and return all hits from each source individually. This method is the one currently available under Broadsword version 2.0 and is the method most users are familiar with when using such search engines as AltaVista, Yahoo, Lycos, etc.

The second method, new to Broadsword version 3.0, is by Entity. This method limits the initial request to an MIDB and a single Imagery source. If the user has selected an MIDB and/or Imagery source through preferences, the first one in the list in each case will be selected. If one or neither of the sources has been chosen, the interface will default to the first one in the user's list of each type. If the user does not have access to both sources, then this search option will not be available.

The results are provided back in an aggregated view based on the requested item(s). The results window is then used as a portal providing suggested sources for additional information. The results can be displayed as a sorted/unsorted list, timeline or on a map. From the results page, the records can be examined further, products pulled, or products ordered. Frequently used queries can be saved through either the Search Form page or Results Page. Each source dictates the display and/or retrieval of its products.

Currently Broadsword supports ordering CSIL, IPL, 5D and IDEX products. There is a different process for requesting IDEX products, pulling IPL/5D products to a destination, and ordering CSIL products. Users are able to choose several products of differing types and put them into a "shopping cart". The ordering attributes for any product placed in the cart can be modified while in the cart. Items placed in the cart can be saved from session to session and across multiple queries. At any time the user can order the items in the cart by clicking the order button. The user can find out the status of any orders that they have placed by clicking on the Order Status capability. This function provides information as to whether the product has been successfully delivered or has been shipped out (depending on the source).

Formatted reports provide the ability for the user to generate a set of predefined reports. Specific report types and the attributes available to generate them are based on the source and type. Reports can be ordered to a specified destination or available on-line.

The Saved Queries page provides the user with a list of all queries, which the user saved through the Search Tools or Results Page, as well as functionality to process the queries in different ways. A saved query can be used interactively by the user, producing immediate results, as well as by background processing, producing deferred results. Interactive use of saved queries includes immediate execution of the query and loading of the query for display modification. Background processing of saved queries is done by the E-mail Notification and Batched Query utilities. E-mail Notification Processing periodically informs the user of new and updated products that match the saved query. Batched Query Processing allows the user to schedule the query to be executed at a later time. The results generated by these background processing utilities are viewed through the Deferred Results Page. The Deferred Results capability not only allows viewing of E-mail and Batched results, but also deletion of these results. For viewing, the standard display format is used to present product information.

1.2.4.3 Administration

The System Administration (SA) section for the Gatekeeper provides system status, user/group maintenance, system statistics and system configuration. System Status provides the status of all processes associated with the Project Broadsword system, the ability to turn on debug flags and maintenance for Broadsword log files.

Under User Maintenance, the system administrator grants additional privileges (i.e., system administrator, and ISSO) and access to various sources. System Statistics provides Web, Gatekeeper and Batched jobs statistics. Web statistics is based on Web Usage and provides such information as the amount of bytes transferred, the top number of pages accessed and the total number of accesses. Gatekeeper statistics include a listing of the top 10 frequently accessed products and the top 10 frequently issued queries.

The System Configuration section, allows the system administrator to modify or change the configuration information of the Gatekeeper, add/remove sources, define values for attributes (used for popdowns as part of the short form) and establish connectivity with other Gatekeepers through registration with the Keymaster.

1.2.4.4 ISSO

The ISSO Interface provides the ability to view, archive, or remove audit information from the Broadsword Sybase Database based on users(s), date/time and audit event. It also allows the ISSO to retrieve previously archived audits.

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INSTALLATION

The purpose of this part is to provide detailed information to install a new version or to upgrade an existing one.

Topics covered in this part:

Getting Started

- Server Requirements
- Preparing your system
- Site Configuration Worksheet

Installation

- Loading the System Software
- Providing Installation Choices
 - Data Base Configuration
 - Keymaster Configuration
 - Client Configuration
- Confirming Installation Choices
- Installation Progress
- Installation Verification

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Chapter 2

Getting Started

The purpose of this chapter is to prepare your system for installation and to gather all the required information you'll need beforehand. At the end of this chapter is a "Site Configuration Worksheet." You should have this worksheet filled out before continuing to Chapter 3. It contains all the questions the installation script will be asking. You may want to detach it from this document to have it handy during the installation. The topics in this chapter include:

- Requirements
- Preparing Your System
- Site Configuration Worksheet

2.1 Server Requirements

Broadword Keymaster can be installed on a dedicated Solaris system, or it can share a system with another Sybase application. Your system must be operating with at least the following hardware/software in order to successfully install and use the Broadword Keymaster Interface:

Software	Hardware
<ul style="list-style-type: none">• Sybase SQL OR Sybase Adaptive Server• Solaris v2.6• An HTML v4.0+ compliant web browser, such as Netscape 4.7+ or Internet Explorer 4.0+ (refer to Chapter 5 for more information)• CSE-SS or an LDAP Server already preloaded• X-Window Environment (if running CSE-SS)	<ul style="list-style-type: none">• CD ROM Drive• At least 2 GB free disk space for Broadword database• At least 1 GB free disk space for Broadword software• At least 1 GB free disk space for map data• At least 2 processors• 1GB/2 GB recommended memory (imagery products)

Note 1: No special CSE-SS audit flags are needed for the Keymaster ; the CSE-SS minimum audits will suffice, as the Keymaster utilizes its own auditing scheme.

Note 2: No additional operating system packages and subsets are required for the Keymaster, except those required to support CSE-SS version 1.3/1.4.

Note 3: No special steps are required to install the Keymaster in a CSE-SS environment.

2.2 Preparing your System

This section provides a list of things to do *before* installing the system.

Note: You must be user **root** at this point to perform each of the following steps (unless specified otherwise).

1 Partition Keymaster Database Devices

You must partition disk space to use for the Keymaster database, transaction log, and temp device. Use whichever utility program you normally use to partition disks, such as 'format' or 'SparcStorage Array Volume Manager', if using a Sun Sparc Disk Storage Array. The standard partition sizes are as follows, but can be made larger:

- Master Device Path: 30MB (**60MB for Sybase adaptive server**) {Worksheet #10}
- Sysprocs Device Path: 30MB(**60MB for Sybase adaptive server**) {Worksheet #11}
- TempDevice: 100MB {Worksheet #14-15}
- Database: 2000 MB {Worksheet #17-18}
- Transaction Log: 500MB {Worksheet #19-20}

You can use either raw or UNIX file system partitions for these Sybase devices, however, Sybase, Inc. recommends raw partitions. In either case, make sure that the raw device path (or UNIX directory) is owned and writeable by the Sybase user. Also be sure there is enough space available on each partition. You will be prompted during the installation for the location of these free space partitions.

Sybase licensing requires an SQL Server site license to create multiple Sybase dataservers. If your site does not have this site license, you CANNOT create multiple dataservers on this system. If this is the case, you MUST answer the question for 'Sybase Dataserver Name' (Worksheet #6) with your existing dataserver name. This will allow the Keymaster to 'share' this existing dataserver. If your site does have the site license, the installation will create a new Sybase dataserver if desired. If in question, contact your local Sybase Administrator or Sybase, Inc. at 1-800-8-SYBASE.

Note: If you decide to share with an existing dataserver, be sure to choose one that has a sort order of "case - insensitive dictionary sort order." The Keymaster will not function correctly otherwise (i.e., 5D cannot be shared with because it's dataserver is case sensitive. To verify this, execute the "sp_helpsort" system stored procedure inside the dataserver in question to confirm the sort order is set as described above.

Also, if you decide to share with an existing dataserver, you will not need to partition space for a Master Device, Sysprocs Device, or Temp Device. These will be used in the existing dataserver being shared with.

2 Determine Available Disk Space

The standard location to install The Keymaster is /opt/keymaster3.0. Enter the following to determine if the /opt partition has adequate free space:

```
df -k /opt <cr>
```

There should be at least 1GB available on the /opt partition. The distribution tape accounts for only a fraction of this 1GB; the rest is to allow for product & thumbnail caching. If the /opt partition doesn't contain at least 1GB of free space, you should utilize a partition that is large enough, and create a symbolic link called /opt/keymaster 3.0 that points to it. For example, if the /opt partition is not large enough, but there's an /opt1 partition that is, the following commands could be used:

```
/usr/bin/mkdir /opt1/keymaster3.0<cr>           (Makes new directory to store  
                                                Keymaster)  
/usr/bin/chmod 755 /opt1/keymaster3.0<cr>       (Sets permissions)  
/usr/bin/ln -s /opt1/keymaster3.0 /opt/keymaster3.0 <cr> (Creates symbolic link, called  
                                                /opt/keymaster3.0 that "points to"  
                                                /opt1/keymaster3.0)
```

Note: There is a known problem with Sybase that affects the Keymaster install. Sybase has a problem calculating free space on the hard disk. This problem only impacts a Keymaster installation if the current amount of free space is just slightly over 2 gigabytes or some integer multiple thereof (e.g. – 4, 6, etc.). This problem will result in an error during the final stages of the Keymaster install. To remedy this problem, the system administrator needs to temporarily fill enough disk space so that the amount of free space falls just beneath some integer multiple of 2 gigabytes. Once the install is complete, this disk space may be freed.

3 Make sure *sendmail* is running on your system

In order for the Feedback function to work properly, the host on which you are installing the Interface must have *sendmail* set up. Use the following command to check if it's running:

```
/usr/bin/ps -ef|grep sendmail|grep -v grep<cr>
```

If you get output returned by the system, *sendmail* is already running, and you may proceed to the next step. If you get no output, type the following (as user root) to start *sendmail*:

```
sh /etc/init.d/sendmail start <cr>
```

4 Perform system kernel modification, if necessary

These lines are needed by the Sybase dataserver. If the following lines don't already exist in the file /etc/system, you must append them (as user root):

```
set shmsys:shminfo_shmmax=1310720000  
set shmsys:shminfo_shmseg=32  
set maxusers=512
```

and issue the following commands:

```
touch /reconfigure <cr>
```

Note: Before issuing the following shutdown command, you must shutdown any Database Servers that are currently running to avoid any possible database corruption.

```
/usr/sbin/shutdown -y -g0 -i6 <cr>
```

(to reboot the system and make the new values take effect)

5 Choose Keymaster Group

Choose an existing UNIX group on the system to use for The Keymaster, or create a new one (i.e. bswd). **All users connecting to the Keymaster Interface must be in this group.** For example, if your server already has an “ipa” group defined, and this same group of users will be allowed to connect to The Keymaster, you can simply use “ipa” as your group name. Be sure to write the group chosen in Field (24) in the Site Configuration Worksheet below.

6 Create Keymaster System Administration User

Create a new UNIX user on the system, using your normal means, called *bswduser*. This user will be used for System Administration functions. Add this user to the Keymaster group chosen or created above.

7 Complete the Site Configuration Worksheet (below)

After correctly completing the above steps, fill out the **ENTIRE** worksheet below, as you will refer to it during the installation process in Chapter 3.

2.3 Site Configuration Worksheet

The following section previews all the configuration questions that will be asked during the installation process. You are encouraged to write in your answers on this page so that you have them handy during installation. (The numbers adjacent to the Field Names are referred to throughout this guide.)

Note: For completeness, password fields are listed here. However, it is advisable NOT to write down any passwords on this sheet. You should remember them.

Field Number	Field Name	Your Answer	Description
1	CD Registration Name		Registration name as shown on the Keymaster CD-ROM.
2	CD Serial Number		Serial number as shown on the Keymaster CD-ROM.
3	Import Selection		Answer "Yes" to import various items from a previous Keymaster version (Default: No)
4	Keymaster Previous Version Path		Path to previous version of Keymaster. Asked only if Import Selection is "Yes".
5	Dataserver Creation Method		Dataserver Creation Method (Default: Create New)
6	Sybase Username		Sybase UNIX username associated with version of Sybase being used for Keymaster. (Default: sybase)
7	Sybase Home Dir Path		Home directory path of Sybase SQL Server or Sybase Adaptive server.
8	Sybase Dataserver Name		The dataserver name to create or share for Keymaster Sybase server. (Default: KM_<hostname>_SVR)
9	Sybase Dataserver Port Number		UNIX port to be used by the Keymaster Sybase server. Asked only if creating a new dataserver. (Default: 2502)
10	Sybase Dataserver Master Device Path		System location to place Keymaster dataserver master device. Can either be a raw device (i.e. /dev/rdisk/c0t1d0s2), highly recommended, or a standard UNIX file path, such as /opt/bswd_syb_devices. Must be at least 30MB free on path (60 MB for Sybase Adaptive Server). Asked only if creating a new dataserver. Note: Do not include a device filename (e.g. - master.dev) at the end of the path. The filename will be added automatically.
11	Sybase Dataserver Sysprocs Device Path		System location to place Keymaster dataserver systemprocs device. Can either be a raw device (i.e. /dev/rdisk/c0t1d0s2), highly recommended, or a standard UNIX file path, such as /opt/bswd_syb_devices. Must be at least 30MB free on path (60 MB for Sybase Adaptive Server). Asked only if creating a new dataserver. Note: Do not include a device filename (e.g. - master.dev) at the end of the path. The filename will be added automatically.
12	Sybase B/U Server Create?		Create new Sybase Backup Server? Asked only if creating a new dataserver. If a Sybase Backup Server already exists on this system, you may click "No".

Field Number	Field Name	Your Answer	Description
13	Sybase B/U Server Port #		UNIX port to be used by the Sybase Backup Server. Asked only if creating a new dataserver, and "Yes" is answered to question above.
14	Keymaster TempDevice Path		System location to place Keymaster TempDevice. Can either be a raw device (i.e. /dev/rdisk/c0t1d0s2), highly recommended, or a standard UNIX file path, such as /opt/bswd_syb_devices. Asked only if creating a new dataserver. Note: Do not include a device filename (e.g. - master.dev) at the end of the path. The filename will be added automatically.
15	Keymaster TempDevice Size		Size to make the Keymaster TempDevice. Asked only if creating a new dataserver. (Default: 100MB)
16	Sybase Administrator Password	(don't write here)	The password for the Sybase System Administrator (sa). Asked only if sharing an existing dataserver.
17	Keymaster Data Device Path		System location to place Keymaster database. Can either be a raw device (i.e. /dev/rdisk/c0t1d0s2), highly recommended, or a standard UNIX file path, such as /opt/keymaster_syb_devices Note: Do not include a device filename (e.g. - master.dev) at the end of the path. The filename will be added automatically.
18	Keymaster Data Device Size		Size to make the Keymaster database. (Default: 2000 MB)
19	Keymaster Log Device Path		System location to place Keymaster database transaction log. Can either be a raw device (i.e. /dev/rdisk/c0t1d0s2), highly recommended, or a standard UNIX file path, such as /opt/keymaster_syb_devices Note: Do not include a device filename (e.g. - master.dev) at the end of the path. The filename will be added automatically.
20	Keymaster Log Device Size		Size to make the Keymaster database transaction log. (Default: 500 MB)
21	bswduser Account Password	(don't write here)	UNIX password for 'bswduser' account created in Chapter 2.
22	Server Type		Server type for this Keymaster Installation. (Choices: Protected or Both Protected and Registered)
23	Protected HTTP port #		UNIX port to be used by the Protected HTTP daemon.
24	Network host machine is on		Network type host machine is connected to.

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Field Number	Field Name	Your Answer	Description
			(Choices: JWICS, SIPRNET, or Internet) (Default: SIPRNET)
25	Additional network classification label (optional)		Any additional caveats or compartments that should be added to the security banner (e.g. -SI/TK) Default: Blank
26	SIPRNET Project Broadsword Program Office IP Address		IP Address (on SIPRNET only) of Project Broadsword Program Office homepage. Asked only if network type is SIPRNET. If this address is unknown contact the Broadsword Program Office at (315) 330-4429.
27	Group Name		UNIX group to use for Keymaster
28	System Admin Name		System Administrator name (MANDATORY)
29	System Admin Branch		System Administrator branch (MANDATORY)
30	System Admin Organization		System Administrator organization (MANDATORY).
31	System Admin Address1		System Administrator address (MANDATORY).
32	System Admin Address2		System Administrator address (MANDATORY).
33	System Admin Phone		System Administrator UNCLASSIFIED phone number (MANDATORY).
34	System Admin FAX		System Administrator FAX (MANDATORY)
35	System Admin E-mail		System Administrator E-mail (MANDATORY)
36	System Admin City		System Administrator City (MANDATORY)
37	System Admin State/Locality		System Administrator State/Locality (MANDATORY)
38	System Admin Country Code		System Administrator Country Code (MANDATORY)
39	ISSO Name		ISSO name.
40	ISSO Branch		ISSO branch.
41	ISSO Organization		ISSO organization.
42	ISSO Address1		ISSO address.
43	ISSO Address2		ISSO address.
44	ISSO Phone		ISSO UNCLASSIFIED phone number.
45	ISSO Fax		ISSO fax number.
46	ISSO Email		ISSO email address.

Field Number	Field Name	Your Answer	Description
47	Intelink Site Info Manager Name		Intelink Site Information Manager name.
48	Intelink Site Info Manager Branch		Intelink Site Information Manager branch.
49	Intelink Site Info Manager Organization		Intelink Site Information Manager organization.
50	Intelink Site Info Manager Address1		Intelink Site Information Manager address.
51	Intelink Site Info Manager Address2		Intelink Site Information Manager address.
52	Intelink Site Info Manager Phone		Intelink Site Information Manager UNCLASSIFIED phone number.
53	Intelink Site Info Manager Fax		Intelink Site Information Manager fax number.
54	Intelink Site Info Manager Email		Intelink Site Information Manager email address.

Table 2.1 Site Configuration Worksheet

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Chapter 3

Installation

The purpose of this chapter is to provide detailed procedures to install the Keymaster software. It covers both a new install and an upgrade to an existing one. Whether this is a new install or an upgrade make sure you have completed Chapter 2 first. After completing the instructions provided within you must proceed to Chapter 4 to configure and tailor the system. Specific topics covered include:

- Loading the Software and Starting the Install Script
- Providing Installation Choices
- Confirming Installation Choices
- Configuration Progress
- Installation Verification
- Uninstalling the System (Current or Previous Version)

3.1 Loading the Software and Starting the Install Script

1 Start a terminal window (xterm shell):

At the command line type:
`/usr/openwin/bin/xterm <cr>`

or launch a Terminal window off the desktop. You may want to launch two windows just in case you might want to monitor some part of the process or need to look something up during the process.

2 Within this new window login as super-user on the machine you wish to install:

`su - root <cr>`

3 Insert the distribution CD into the CD-ROM drive.

At the shell prompt, enter:
`cd /cdrom/cdrom0 <cr>`

4 Execute the install script:

The execution format of the install script is as follows:

Usage: `./install.sh`
`-display display_name`
`-sybase sybase_dir`
`[-s source_path]` (Default: `/cdrom/cdrom0`)
`[-d dest_path]` (Default: `/opt/keymaster3.0`)
`[-nountar]` (Do not extract Keymaster tar files)

Where:

`<display_name>` is the X display name that you are installing from (where the install GUI will be displayed) [i.e. `bianica:0.0`].

`<sybase_dir>` is the directory where the Sybase product is located (refer to Worksheet #5 in the previous chapter) [i.e. `/opt/SYBASE`].

`<source_path>` is the directory in which the Keymaster distribution tar files are stored [defaults to `/cdrom/cdrom0` if `-s` not specified].

`<dest_path>` is the directory in which you would like Keymaster software to be installed [defaults to `/opt/keymaster3.0` if `-d` not specified].

`<-nountar>` is specified only in cases where the Keymaster distribution tar files have already been extracted (i.e. the tar files have already been extracted fully, and there is just a need to start over at the install GUI).

An example of executing the script would be: `./install.sh -display puck:0.0 -sybase /opt/SYBASE <cr>`

3.2 Providing Installation Choices

After the install script has successfully extracted the two tar files, it will launch the graphical portion of the install process. This portion will take the installer step by step through the remainder of the installation process. Figure 3.1 shows the initial screen.



Figure 3.1 - Initial Installation Screen

3.2.1 Determining the Install Mode

After clicking the “OK” button the installer is asked whether this will be a new install or an upgrade to an existing Keymaster system. Either mode will install the software in such a manner that it will not destroy the existing system. Upgrade Mode imports user files and existing configuration files (i.e., registered Gatekeepers) from the previous version specified. Figure 3.2 shows this screen. For a new install the upgrade path will be ignored.

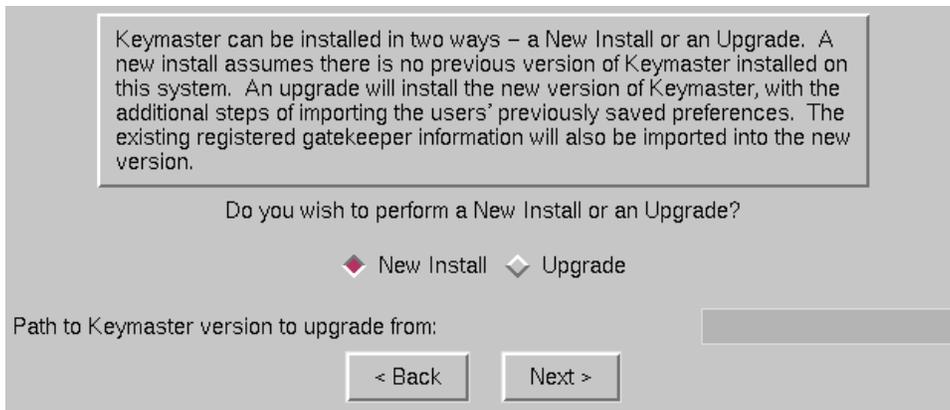


Figure 3.2 - Mode Selection Screen

FIELDS VALIDATED	
Upgrade Path (Previous version)	File <Path Entered>/bin/keymaster. SVR4 EXISTS AND <Path Entered> != current version being installed.

Table 3.1 - Fields Validated

3.2.2 Data Base Configuration

After clicking the “Next” Button, the install script asks whether the database will exist as a separate dataserver or share the existing server. Each dataserver requires their own license. If a site has a site license for Sybase, then both options are available to the site. **Note:** The existence of Sybase licenses is **NOT** determined automatically by the installer; it is up to site personnel to determine this. If the site has only a single server license, the only option available to the site is to install the database under an existing dataserver. The disadvantage of using a shared dataserver is that if it goes down for some reason, all the databases running under the dataserver will go down. This becomes a reliability concern.

3.2.2.1 Creating a New Dataserver

Figure 3.3 provides a sample of this screen. The default option is to “Create new”. If the “Share existing” option is picked, skip to Section 3.2.2.2.

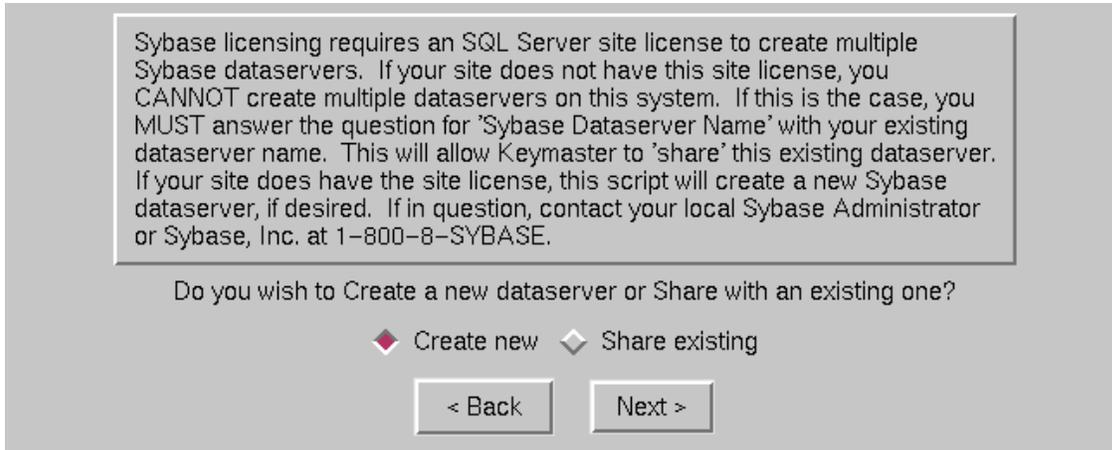


Figure 3.3 - Dataserver Creation Method Screen

If the “Create new” option is chosen (as shown in Figure 3.4), the installation process will next ask for information required to configure the Dataserver.

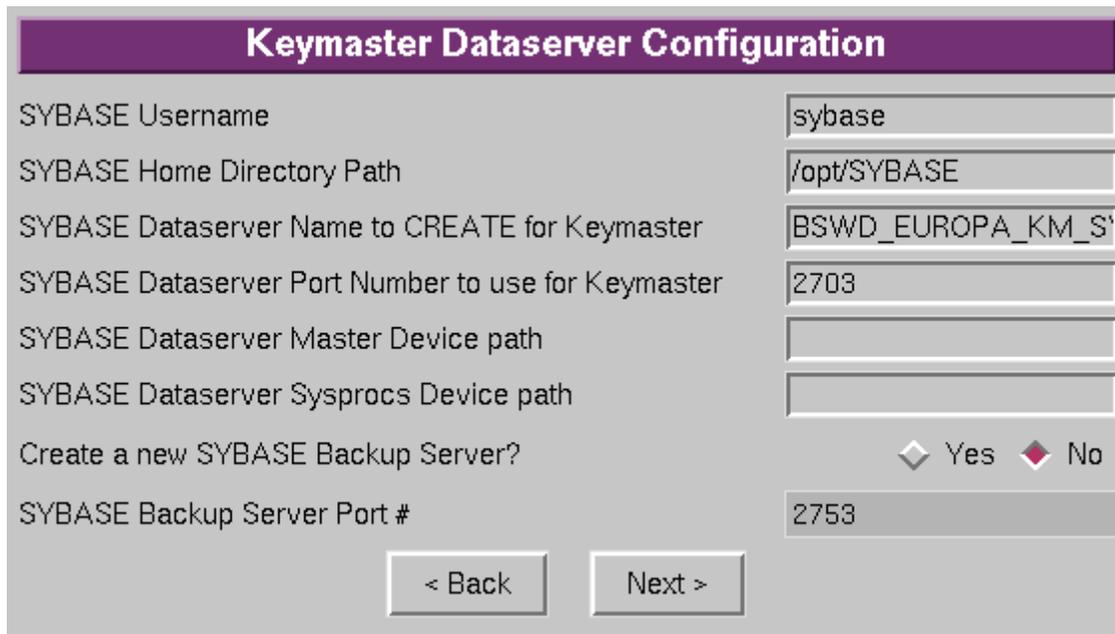


Figure 3.4 - Initial Database Configuration Screen

A number of default values have been entered. The installer must verify these values along with entering the additional requested information. The additional requested information specifically identifies where Sybase will physically write its data. The device path can be either a path to a raw partition or a file

system. Figure 3.5 shows the sample screen with the device paths filled in and the creation of a SYBASE Backup Server.

Note: The new dataserver created will have an administrator (sa) password that is empty. To set a password please refer to Appendix C.

Figure 3.5 - Example Database Configuration Screen

Fields Validated	
Sybase Username	Username entered exists on system.
Sybase Home Directory Path	File <Path Entered>/bin/dataserver EXISTS.
Sybase Dataserver Name	Name entered is a currently defined dataserver (when in sharing mode). Also, when in sharing mode, verifies that dataserver entered is running.
Sybase Administrator Password	Installer enters it twice AND password is verified by doing test login into dataserver.
Dataserver Port #	Port number is not already in use.
Master Device Path	Path EXISTS AND is writable by the Sybase User entered earlier AND there is enough space available for device (30 or 60 MB).
Sysprocs Device Path	Path EXISTS AND is writable by the Sybase User entered earlier AND there is enough space available for device (30 or 60 MB).
Backup Server Port #	Port number is not already in use.

Table 3.2 - Fields Validated

After entering the requested information and pressing the “Next” button, the install process asks for information to configure the temporary device for Sybase only if creating a new dataserver. Figure 3.6 provides an example of this screen with both the path and size entered.

Figure 3.6 - Sample TempDevice Configuration Screen

The next step in the installation process is to configure the Sybase Data and Log Devices. Similar information as with the Temporary Device portion is requested. Figure 3.7 provides an example of this screen.

Figure 3.7 - Sample “Database Configuration” Screen

Fields Validated	
Data Device Path	Path EXISTS AND is writable by the Sybase User entered earlier AND there is enough space available for device.
Log Device Path	Path EXISTS AND is writable by the Sybase User entered earlier AND there is enough space available for device.

Table 3.3 - Fields Validated

At this point all the necessary information to configure the Dataserver is complete. The installation process will next request information needed to configure the Keymaster. Skip to section 3.2.1.2 below to proceed with the installation.

3.2.2.2 Sharing an Existing Dataserver

If the “Share existing” option is chosen, as shown in Figure 3.8, the installation process will next ask for information required to configure the Database.

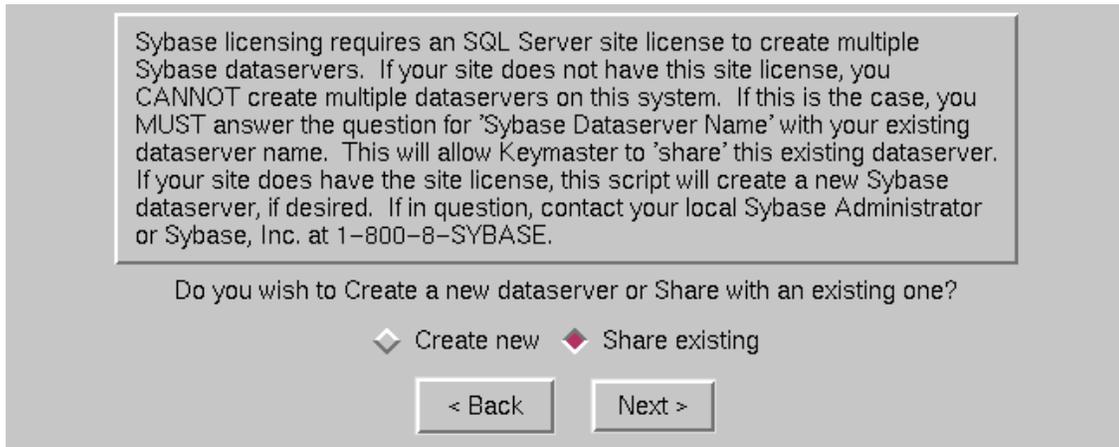


Figure 3.8 - Sharing an Existing Dataserver Screen

A number of the default values have been entered. The installer must verify these values along with entering the additional requested information. The additional requested information specifically identifies where Sybase will physically write its data. Figure 3.9 provides the initial, default screen, while Figure 3.10 shows the sample screen with the device paths filled in.

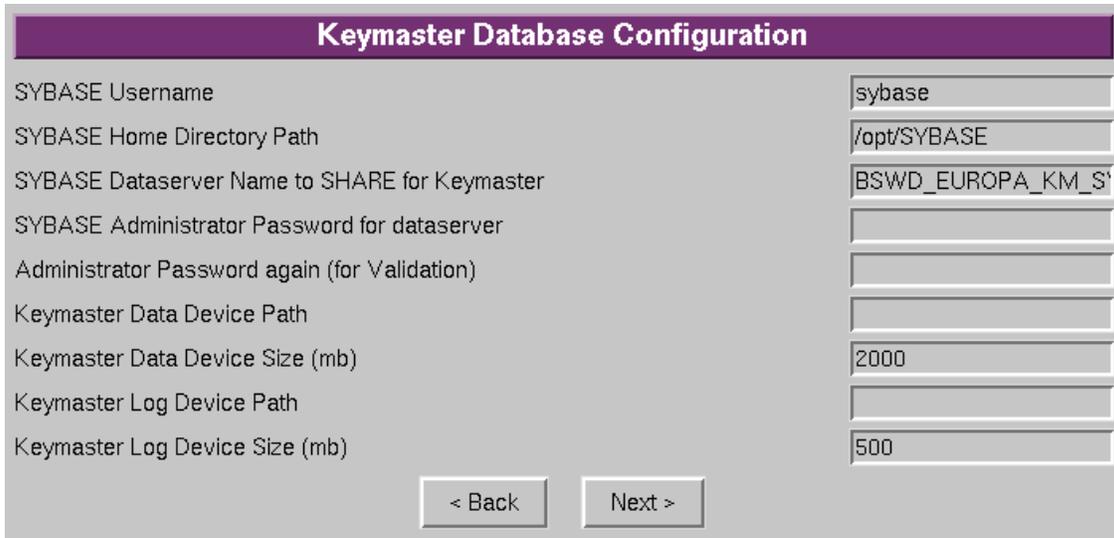


Figure 3.9 - Initial Database Configuration Screen

Sybase can use either raw partitions or files for the data and log devices. The example that is provided in Figure 3.10 uses raw partitions for both the data and log devices. It also changes the sizes of each of these devices. Once filling in all the blanks, press the “Next” button. At this point the information provided is validated and checks whether the Dataserver “SYBASE” is running. If not, a warning

message is presented, providing the procedure to bring it up. After successfully starting the server the process can continue.

Figure 3.10 - Sample Database Configuration Screen

Fields Validated	
Sybase Username	Username entered exists on system.
Sybase Home Directory Path	File <Path Entered>/bin/dataserver EXISTS.
Sybase Dataserver Name	Name entered is a currently defined dataserver (when in sharing mode). Also, when in sharing mode, verifies that dataserver entered is running.
Sybase Administrator Password	Installer enters it twice AND password is verified by doing test login into dataserver.
Data Device Path	Path EXISTS AND is writable by the Sybase User entered earlier AND there is enough space available for device (entered by installer).
Log Device Path	Path EXISTS AND is writable by the Sybase User entered earlier AND there is enough space available for device (entered by installer).

Table 3.4 - Fields Validated

3.2.3 Keymaster Configuration

The next part of the installation process is to provide information necessary to configure the Keymaster. This section provides the initial login (always 'bswduser') and password for the administrator to log into the interface and further configure the system. Figure 3.11 provides the Keymaster Configuration Screen.

Figure 3.11 - Broadword Keymaster Configuration Screen

Fields Validated	
'bswduser' Password	Installer enters it twice.

Table 3.5 - Fields Validated

3.2.4 Client Configuration

After clicking on the “Next” button the configuration information is processed and validated. If successful, the installation process will continue with the configuration of the Keymaster Client. In this section, the HTTPD ports, the network classification the IP address of the Broadword Program Office Home Page and the system group name are determined. Figure 3.12 displays this page.

Figure 3.12 - Keymaster Client Configuration Screen

Fields Validated	
Client Protected HTTP Port #	Port number is not already in use.
SIPRNET Broadword Program Office IP Address	If Network Type selected is SIPRNET, this field cannot be empty.
System Group Name	Group name EXISTS on system.

Table 3.6 - Fields Validated

The final portion of the installation process is to configure the Support Page. This page provides the necessary site’s Points of Contacts (POCs) for System Administration, ISSO and Intelink Site Information Manager. The System Administrator fields are mandatory. Figure 3.13 provides the initial POC screen.

Point of Contact Information

System Administrator	ISSO
Note: These fields are mandatory:	
Name <input style="width: 90%;" type="text"/>	Name <input style="width: 90%;" type="text"/>
Branch <input style="width: 90%;" type="text"/>	Branch <input style="width: 90%;" type="text"/>
Organization <input style="width: 90%;" type="text"/>	Organization <input style="width: 90%;" type="text"/>
Address1 <input style="width: 90%;" type="text"/>	Address1 <input style="width: 90%;" type="text"/>
Address2 <input style="width: 90%;" type="text"/>	Address2 <input style="width: 90%;" type="text"/>
Phone <input style="width: 90%;" type="text"/>	Phone <input style="width: 90%;" type="text"/>
FAX <input style="width: 90%;" type="text"/>	FAX <input style="width: 90%;" type="text"/>
Email <input style="width: 90%;" type="text"/>	Email <input style="width: 90%;" type="text"/>
City <input style="width: 90%;" type="text"/>	
State/Locality <input style="width: 90%;" type="text"/>	
Country Code <input style="width: 90%;" type="text" value="US"/>	

Intelink Site Info Manager	
Name	<input style="width: 90%;" type="text"/>
Branch	<input style="width: 90%;" type="text"/>
Organization	<input style="width: 90%;" type="text"/>
Address1	<input style="width: 90%;" type="text"/>
Address2	<input style="width: 90%;" type="text"/>
Phone	<input style="width: 90%;" type="text"/>
FAX	<input style="width: 90%;" type="text"/>
Email	<input style="width: 90%;" type="text"/>

Figure 3.13 - Point of Contact Information Screen

3.3 Confirming Installation Choices

Upon entering the POC information, the process continues by providing a screen that displays the configuration information that has been entered thus far. At this point, clicking the “Install” button will continue the installation process. If changes are desired, use the “Back” button to proceed to the screen in which that item was configured. Figure 3.14 is an example of a new dataserver confirmation screen and Figure 3.15 is an example of a shared dataserver confirmation screen.

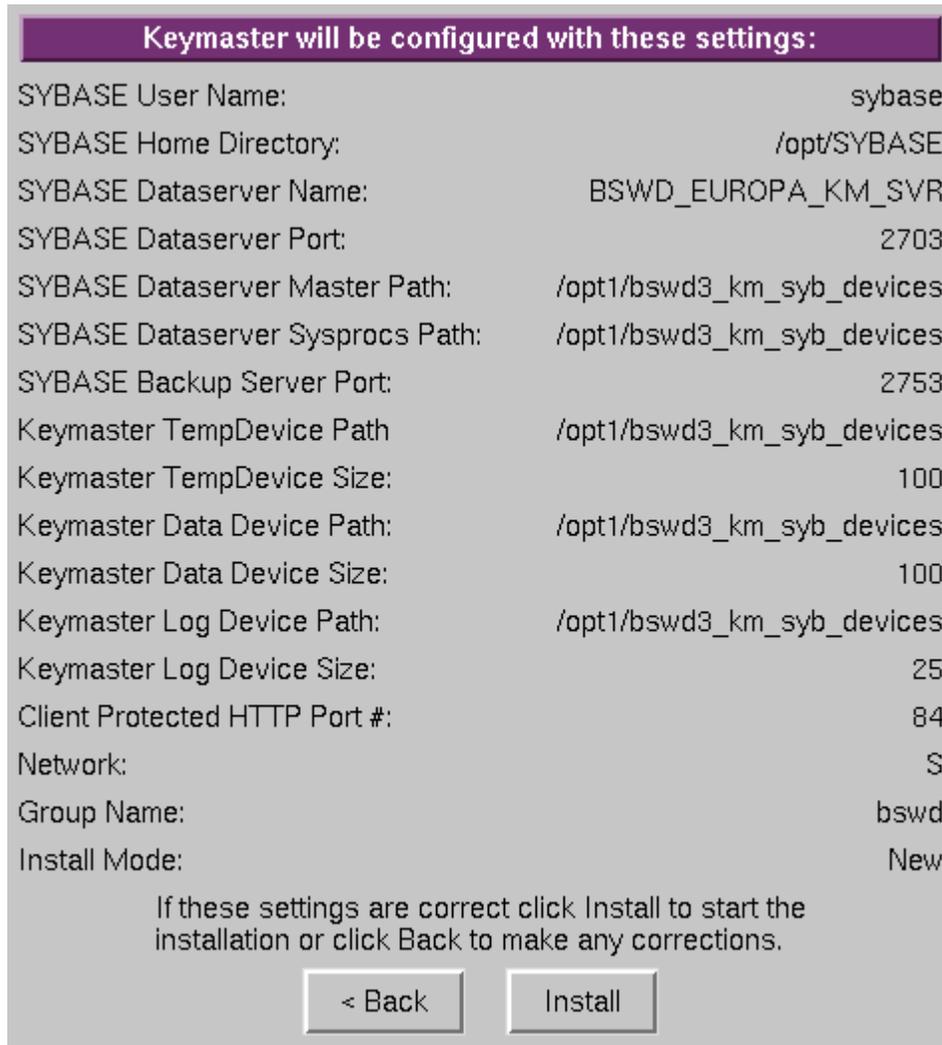


Figure 3.14 - Sample Based on New Data Server Confirmation Screen

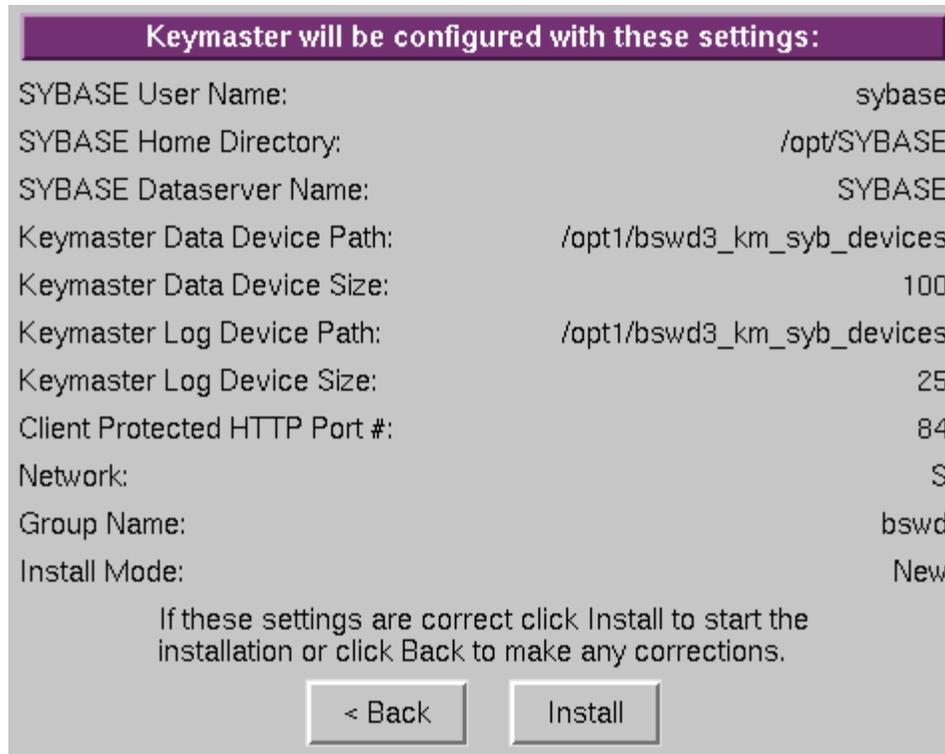


Figure 3.15 - Sample Based on Shared Data Server Confirmation Screen

3.4 Installation Progress

After clicking on the “Install” button, the installation process will continue to make the necessary changes. Two windows will appear to allow for monitoring of the progress. The first is a progress gauge, which provides for the percent of the total installation complete, while the second line indicates the percent complete of that specific part. Figure 3.16 provides an example of this screen.

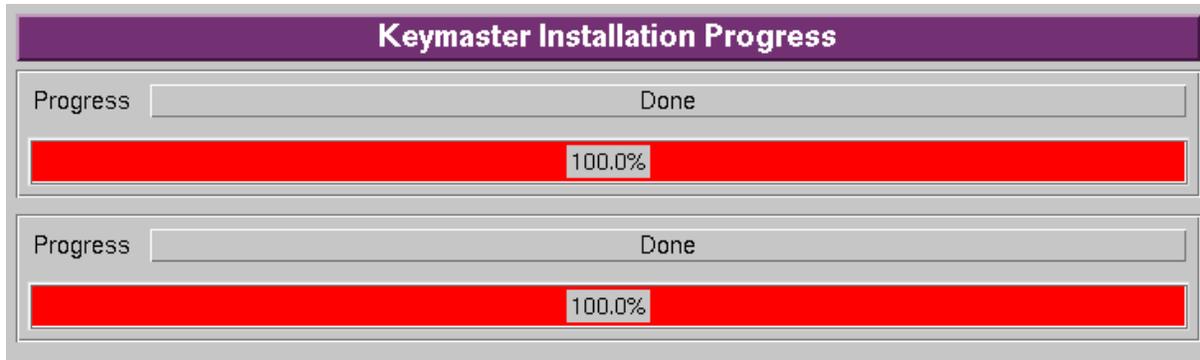


Figure 3.16 - Example of the Progress Gauge

The second screen provides a log of the process. Figure 3.17 provides a sample log screen. The information contained on the screen is also saved into a file for later reference (/opt/keymaster3.0/logs/install.log). Also the configuration information is saved and if the installation process is restarted, it will read the saved file.

```
Keymaster Install (Install Log)
-->Initialize Install
-->Keymaster Dataserver Configuration
--->Create Dataserver
tcsh: getwd: Cannot stat "." (Permission denied)
tcsh: Trying to start from "/"
The log file for this session is /opt/SYBASE/init/logs/log0511.004'.
WARNING: /opt1/bswd3_km_syb_devices/Bswd3KmMaster.dev' is a regular file which is not recommended for a Server device.
Because this sybinit session was invoked with the '-T IGNORE_WARNINGS' flag, the above warning(s) will be ignored and the configuration will proceed.
Running task: update SQL Server entry in interfaces file.
Task succeeded: update SQL Server entry in interfaces file.
Running task: create the master device.
Building the master device
...Done
Task succeeded: create the master device.
Running task: update the SQL Server runserver file.
Task succeeded: update the SQL Server runserver file.
Running task: boot the SQL Server.
Task succeeded: boot the SQL Server.
Running task: create the sybserverprocs database.
sybserverprocs database created.
Task succeeded: create the sybserverprocs database.
Running task: install system stored procedures.
.....Done
Task succeeded: install system stored procedures.
Running task: set permissions for the 'model' database.
Done
Task succeeded: set permissions for the 'model' database.
Running task: set the default character set and/or default sort order for the SQL Server.
Setting the default character set to iso_1
Installing character set 'iso_1'
..Done
Sort order 'nocase' has been successfully installed.
Character set 'iso_1' is already the default.
Sort order 'nocase' has been successfully set to the default.
Task succeeded: set the default character set and/or default sort order for the SQL Server.
Running task: set the default language.
Setting the default language to us_english
Language 'us_english' is already the default.
Task succeeded: set the default language.
Configuration completed successfully.
Exiting.
The log file for this session is /opt/SYBASE/init/logs/log0511.004'.

--->Create Backup Server
tcsh: getwd: Cannot stat "." (Permission denied)
tcsh: Trying to start from "/"
The log file for this session is /opt/SYBASE/init/logs/log0511.005'.
Running task: update Backup Server entry in interfaces file.
Task succeeded: update Backup Server entry in interfaces file.
Running task: update the Backup Server runserver file.
Task succeeded: update the Backup Server runserver file.
Running task: boot the Backup Server.
Task succeeded: boot the Backup Server.
Configuration completed successfully.
Exiting.
The log file for this session is /opt/SYBASE/init/logs/log0511.005'.

-->Keymaster Database Configuration
--->Acquiring next Sybase Device Number
Next VDEVNO = 2
--->Creating Transaction Log Device
--->Creating Data Device
--->Creating Database & Transaction Log
(return status = 0)
(return status = 0)
CREATE DATABASE: allocating 51200 pages on disk 'Bswd3KmData'
CREATE DATABASE: allocating 12800 pages on disk 'Bswd3KmLog'
```

37-3.0-SYIMGK-10 00-DRAFT-D0
06 October 2000

```
--->Reconfiguring Dataserver
Parameter Name      Default  Memory Used Config Value Run Value
-----
total memory        7500    15000  12288  7500
Configuration option changed. The SQL Server must be rebooted before the change
in effect since the option is static.

(return status = 0)
Parameter Name      Default  Memory Used Config Value Run Value
-----
number of user connections  25    1871    50    25
Configuration option changed. The SQL Server must be rebooted before the change
in effect since the option is static.

(return status = 0)
Parameter Name      Default  Memory Used Config Value Run Value
-----
number of devices      10     #4     20    10
Configuration option changed. The SQL Server must be rebooted before the change
in effect since the option is static.

(return status = 0)
Parameter Name      Default  Memory Used Config Value Run Value
-----
number of locks        5000    469    15000  5000
Configuration option changed. The SQL Server must be rebooted before the change
in effect since the option is static.

(return status = 0)
Parameter Name      Default  Memory Used Config Value Run Value
-----
procedure cache percent  20     960    25    20
Configuration option changed. The SQL Server must be rebooted before the change
in effect since the option is static.

(return status = 0)
Password correctly set.
Account unlocked.
New login created.
(return status = 0)
Database option 'trunc log on chkpt' turned ON for database 'bswd3_kmdb'.
Run the CHECKPOINT command in the database that was changed.
(return status = 0)
Database owner changed.
(return status = 0)
Adding server 'BSWD_EUROPA_KM_SVR', physical name 'BSWD_EUROPA_KM_SVR'
Server added.
(return status = 0)
--->Creating Temp Device
Extending database by 51200 pages on disk BswdTemp
Database option 'select into/bulkcopy' turned ON for database 'tempdb'.
Run the CHECKPOINT command in the database that was changed.
(return status = 0)
Database option 'trunc log on chkpt' turned ON for database 'tempdb'.
Run the CHECKPOINT command in the database that was changed.
(return status = 0)
--->Loading Schema
--->Loading Indexes
--->Loading Stored Procedures
-->Configuring Keymaster Server
--->Updating Configuration Files
HUPping syslogd PID 158
--->Encrypting Configuration Files
-->Configuring Keymaster Client
--->Updating Configuration Files
--->Configuring Homepages
--->Configuring POC Page
--->Installing Initial Statistics Page
-->Starting Keymaster Processes
```

```
--->
Default BSWD startup? (Y/N/Q) [Y]: You have chosen the following BSWD startup options:
  Start Sybase ..... Yes
  Start BSWD background APs..... Yes
  BSWD executables..... /opt/keymaster3.0/bin
Start these portions of BSWD? (Y/N/Q) [Y]: Starting Sybase...
SYBASE SQL Server is already running
SYBASE Backup Server is already running
Starting Background APs...
  Starting /opt/keymaster3.0/client/bin/conan
  Starting /opt/keymaster3.0/bin/keymaster.SVR4
  Starting /opt/keymaster3.0/bin/jivacron
  Starting /opt/keymaster3.0/bin/remote_plugin.SVR4

Keymaster 3.0 Process Status (Thu May 11 14:55:56 EDT 2000):

running /opt/keymaster3.0/bin/keymaster.SVR4
running /opt/keymaster3.0/bin/jivacron
running /opt/keymaster3.0/bin/remote_plugin.SVR4
running /opt/keymaster3.0/client/bin/conan

-->Cleaning up
-->Done
--->Done
```

Figure 3.17 - Sample Log Screen

When the installation is complete, the last screen displayed will be the “Installation Complete” screen (as shown in Figure 3.18).

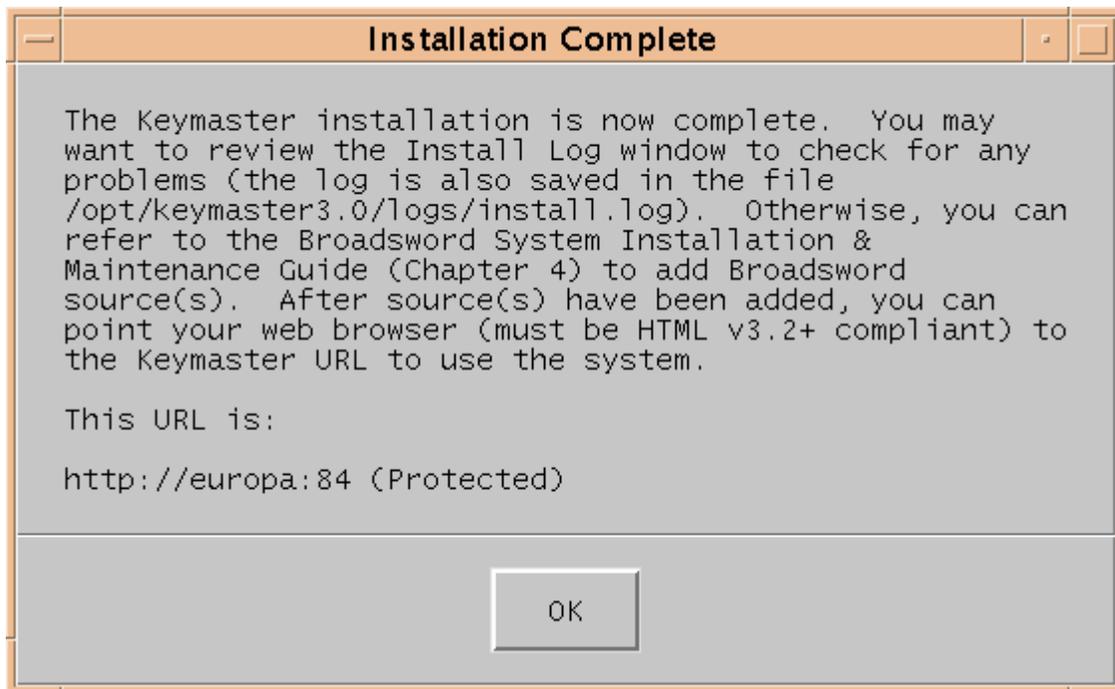


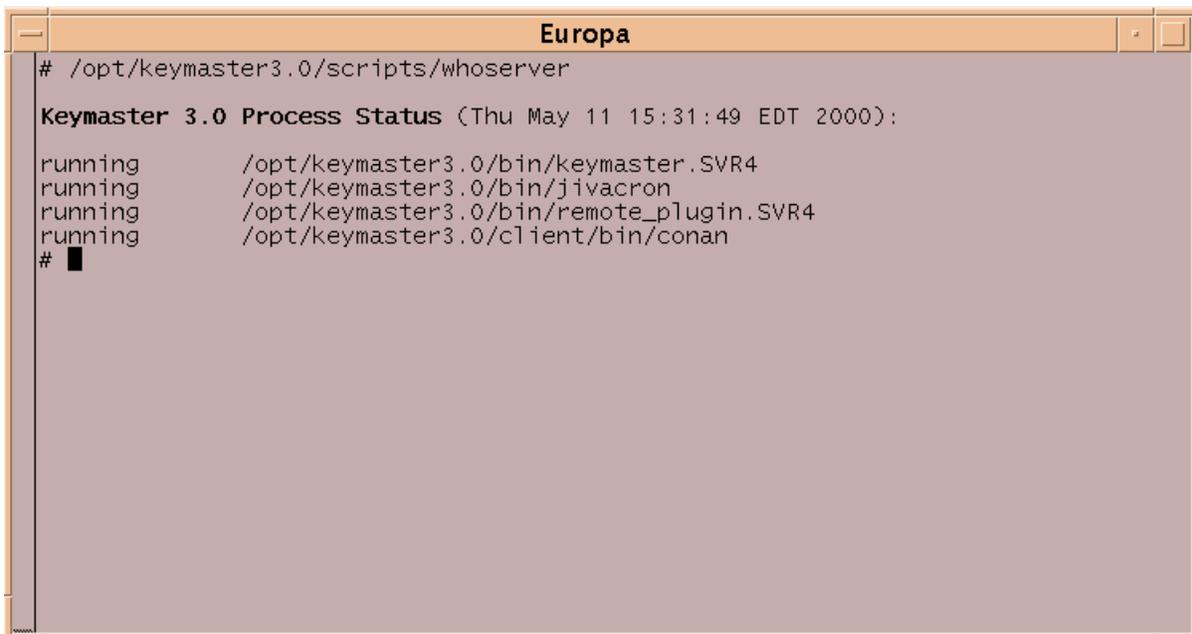
Figure 3.18 - Installation Complete

3.5 Installation Verification

At this point the installation process is complete. To verify the installation has completed correctly, the following command may be executed:

```
/opt/keymaster3.0/scripts/whoserver
```

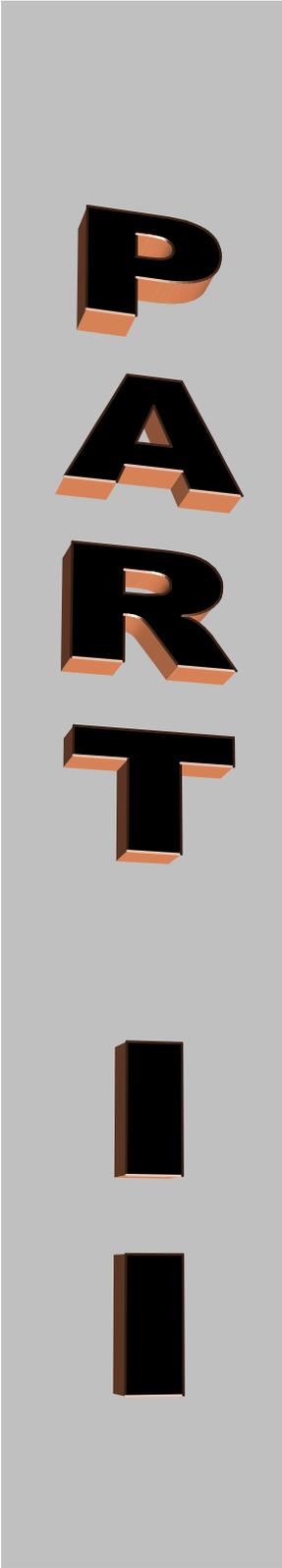
If all processes are shown to be running, the installation most likely has succeeded. Figure 3.19 provides a sample listing of the processes that should be running. If one or more of the processes are not running, check the log window (or the log file) for any obvious problems during the installation. If the problem cannot be fixed at this point contact the Broadsword help desk, otherwise continue to Chapter 4 – System Administration.

A terminal window titled "Europa" showing the output of the command `/opt/keymaster3.0/scripts/whoserver`. The output displays the "Keymaster 3.0 Process Status" for Thursday, May 11, 2000, at 15:31:49 EDT. It lists four processes, all of which are in a "running" state. The processes and their paths are: `/opt/keymaster3.0/bin/keymaster.SVR4`, `/opt/keymaster3.0/bin/jivacron`, `/opt/keymaster3.0/bin/remote_plugin.SVR4`, and `/opt/keymaster3.0/client/bin/conan`. The terminal prompt `#` is visible at the end of the output.

```
Europa
# /opt/keymaster3.0/scripts/whoserver
Keymaster 3.0 Process Status (Thu May 11 15:31:49 EDT 2000):
running      /opt/keymaster3.0/bin/keymaster.SVR4
running      /opt/keymaster3.0/bin/jivacron
running      /opt/keymaster3.0/bin/remote_plugin.SVR4
running      /opt/keymaster3.0/client/bin/conan
# █
```

Figure 3.19 - Sample Listing of Processes Running

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CONFIGURATION

The purpose of this part is to provide detailed information to configure the system and tailor the system to the site's requirements.

Topics covered in this part:

- System Administration
 - Gatekeeper Registration
 - Viewing/UnRegistering Gatekeepers
 - Keymaster Configuration

- User Maintenance
 - Editing/Modifying User Privileges

- Client Requirements
 - HTML Browsers

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Chapter 4

System Administration

Once the installation of the basic system is done, site specific configuration can be performed. This chapter provides details on how to initiate registration of remote Gatekeepers, view registered Gatekeepers, and modify Keymaster configuration. To begin, point your web browser to the URL of the newly installed Keymaster system (e.g. – http://callisto:80). When the login screen appears, enter bswduser as the Username. Also enter the bswduser account password as entered during the installation process (Section 3.2.1.2), and click “Accept”. By selecting the Administration popdown menu, the Administrator is presented with a series of options as shown in Figure 4.1.

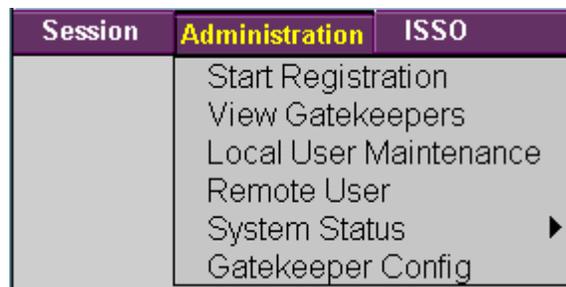


Figure 4.1 - System Configuration Tools

4.1 Gatekeeper Registration

The purpose of this section is to allow the Keymaster to register new Gatekeepers through the use of digital certificates.

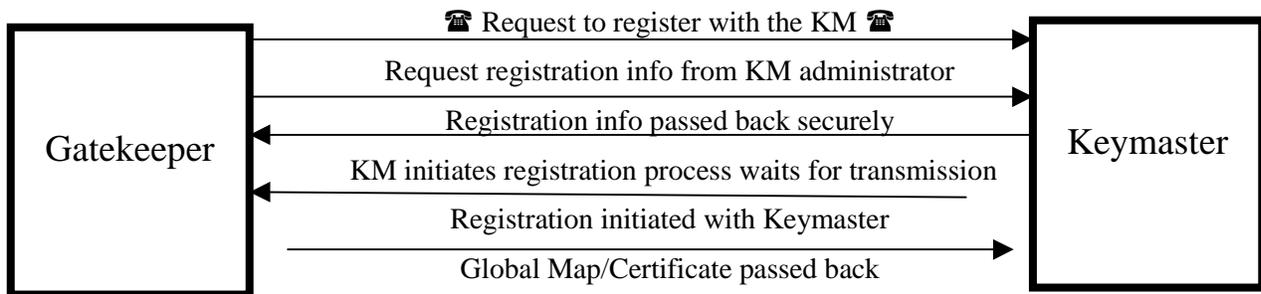
4.1.1 How to Register a New Gatekeeper

1. The POC for the new Gatekeeper will contact the Keymaster via telephone and request to register their Gatekeeper.
2. The Keymaster will select the **Start Registration** option to generate the Registration ID used for the registration process.
3. The Keymaster will then transmit via secure means, the Keymaster’s IP address, port number, and Registration ID for the POC of the Gatekeeper.
4. The POC of the Gatekeeper will then use the **Administration -> System Configuration -> Register Gatekeeper** option to enter the required data and complete the registration process.
5. After the registration process has been initiated by the Keymaster, that status of the registration process will be updated and displayed every minute until the registration process is completed or terminated.

6. The Keymaster may click on the **Abort** button to abort the current registration process anytime during the registration process.

Note: Only one registration process may be initiated and active at any given time. Clicking on any options on any popdown menu during the registration process will terminate the registration process.

The following diagram illustrates the process flow between the registering Gatekeeper and the Keymaster:



4.2 Viewing and UnRegistering Gatekeepers

The purpose of this section is to allow the Keymaster to view all registered Gatekeepers and to un-register any or all Gatekeepers. Each registered Gatekeeper has the POC information and all of its backside sources listed.

4.2.1 How to UnRegister a Gatekeeper

1. Click on the box next to the desired Gatekeeper in the UnRegister column.
2. Click on the "Next" button at the bottom of the page to submit the changes.

Note: Under each Gatekeeper in the right column are the sources that are available to that particular Gatekeeper. Keymaster users can only UnRegister the Gatekeeper as a whole and not the individual sources.

Figure 4.2 is a sample screen of the viewing/UnRegistering of Gatekeepers.

View/Remove Gatekeepers		
UnRegister	GATEKEEPER	SOURCE
<input type="checkbox"/>	saturn Gatekeeper	POC: John K. Gates (gatesj@sun.ird1.rl.af.mil) (315)330-4022
		IPL 1.0 at Sun via Saturn
		IPL 2.1 at Orion via Saturn
		IESS at IESS0 via Saturn
		MIDB at Hoth via Saturn
		NDS at Moon via Saturn
		AODB at Juliet via Saturn
		Intelink-Hydra Search via Saturn
		JVAISM Via Saturn
		Elint Stream Via Saturn Baseline
		IPL 2.1 Source at Orion via Saturn ODBC Version
		IPL 1.0 at Titan

Figure 4.2 View/Remove Gatekeepers

4.3 Keymaster Configuration

The “Keymaster Configuration” screen allows the administrator to modify various parameters of the local Keymaster. Figure 4.3 presents a sample Keymaster Configuration” screen.

Edit Gatekeeper		
Configuration Item	Value	Item Description
Keymaster Description	Saturn Keymaster	This gives a human readable name to a keymaster (i.e. ACOM)
Keymaster IP Address		This is the IP Address of the Keymaster
Keymaster TCP/IP Port	5700	This is the TCP/IP port number the keymaster will wait for connections
Point Of Contact		This is the name of the person responsible for maintaining this keymaster.
POC Phone #		This is the unclassified phone number for the POC.
POC Email		This is the email address (name@hostname) for the Point of Contact.
Organization Name	AFRL	This is the organization name where this keymaster resides.
Country Code	US	This is the 3 character country code where this keymaster resides.
State or Locality	NY	This is the state or locality where this keymaster resides.
City	Rome	This is the city where this keymaster resides.
Client Idle Timeout	30	This is the time in minutes the keymaster waits for client activity before closing the connection
Registration ID Failure Count	15	This is the number of times a registering gatekeeper may submit a invalid registration ID before the registration is aborted.
Keymaster Database Name	BswdSybase	This is the name of the database the keymaster uses
Keymaster Database Account	bswd3kmuser	This is the database account the keymaster uses to login into the database

LDAP Server IP Address	<input type="text"/>	This is the IP address of the LDAP Server. This is only used in LDAP installations.
LDAP Server TCP/IP Port	<input type="text"/>	This is the TCP/IP port that the LDAP Server will wait for connections on. This is only used in LDAP installations.
LDAP Bind DN	<input type="text"/>	This is the Distinguished Name (DN) of a user with full access to the LDAP Server. This is only used in LDAP installations.
Max User Login Failures	<input type="text" value="3"/>	This is the number of times a login may fail before the user account is locked. This is only used in LDAP installations.
User Password History Count	<input type="text" value="5"/>	This is the number of old passwords remembered for a user. This is only used in LDAP installations.
Minimum Number Of Special Characters Required In User Password	<input type="text" value="2"/>	This is the number special characters required to be in a user's password. The special characters are: ! @ # \$ % ^ & * and ?. This is only used in LDAP installations.
User Password Expiration	<input type="text"/>	This is the max number of days a user's password is valid. This is only used in LDAP installations.
Minimum User Password Length	<input type="text" value="8"/>	This is the minimum number of characters required in a password. This is only used in LDAP installations.
Maximum User Password Length	<input type="text" value="8 Data_List=1"/>	This is the maximum number of characters that can be in a password. This is only used in LDAP installations.
Password Dictionary File	<input type="text"/>	This is the fully qualified path to the dictionary file used for validating passwords. This is only used in LDAP installations.
Keymaster Database Password	<input type="password" value="XXXXXXXXXX"/>	This is the database password the Keymaster uses to login into the database
LDAP Bind DN Password	<input type="password" value="XXXXXXXXXX"/>	This is the Distinguished Name (DN) password of a user with full access to the LDAP Server. This is only used in LDAP installations.



You must restart conan after changing any values on this page
Please see the System Installation & Maintenance Guide for information on how to restart conan.

Figure 4.3 Sample "Keymaster Config" Screen

Several configuration items, their current (editable) values, and help text for each presented. Select the field(s) of the items that require modification, enter their new value, and when complete, hit the "**Apply**" button. You may hit "**Reset Form**" to revert any changes you have been making to the page and start over.

Note: After applying a change to the "Client Idle Timeout", conan must be restarted to force it to reread the configuration file. To start the conan process perform the following as user root:

`/opt/keymaster3.0/scripts/stopservice` (only stop Keymaster background APS)

`/opt/keymaster3.0/scripts/startservice` (accept all defaults)

The screen below illustrates an example of this:

```
Saturn
# /opt/keymaster3.0/scripts/stopserver

Default KEYM shutdown? (Y/N/Q) [Y]: n
Stop Sybase? (Y/N) [Y]: n
Stop KEYM background APs? (Y/N) [Y]: y
You have chosen the following KEYM shutdown options:
  Stop Sybase ..... No
  Stop KEYM background APs..... Yes
  KEYM executables..... /opt/keymaster3.0/bin
Stop these portions of KEYM? (Y/N/Q) [Y]: y
Stopping /opt/keymaster3.0/bin/keymaster.SVR4$
Stopping /opt/keymaster3.0/bin/jivacron$
Stopping /opt/keymaster3.0/bin/remote_plugin.SVR4$
Stopping /opt/keymaster3.0/client/bin/conan$
Shutting down PROTECTED HTTP Daemon(PID=14143) ... Complete!
#
# /opt/keymaster3.0/scripts/startserver

Default KEYM startup? (Y/N/Q) [Y]: y
You have chosen the following KEYM startup options:
  Start Sybase ..... Yes
  Start KEYM background APs..... Yes
  KEYM executables..... /opt/keymaster3.0/bin
Start these portions of KEYM? (Y/N/Q) [Y]: y
Starting Sybase...
SYBASE SQL Server is already running
SYBASE Backup Server is already running
Starting Background APs...
  Starting /opt/keymaster3.0/client/bin/conan
  Starting /opt/keymaster3.0/bin/keymaster.SVR4
  Starting /opt/keymaster3.0/bin/jivacron
  Starting /opt/keymaster3.0/bin/remote_plugin.SVR4

Keymaster 3.0 Process Status (Mon May 15 10:56:03 EDT 2000):
running      /opt/keymaster3.0/bin/keymaster.SVR4
running      /opt/keymaster3.0/bin/jivacron
running      /opt/keymaster3.0/bin/remote_plugin.SVR4
running      /opt/keymaster3.0/client/bin/conan
#
```

Chapter 5

User and Group Maintenance

5.1 User Maintenance in a Non-Access & Authentication Module Environment

The following section pertains to User Maintenance in a Non-AAM environment. If the administrator logs into a Broadword server who has been configured with Non-AAM support, the user will be unable to create user accounts through the Broadword interface. However, the Broadword interface will allow the administrator to grant roles and sources. Rather, the process of creating an account will have to be done with the environment's appropriate software, i.e. CSE-SS, Sun Tools, or AFDI. The User Maintenance page is accessible by means of the top most menu bar. The user is able to navigate to the page by clicking on Administration → Users and Groups → User Maintenance. The following image (Figure 5.1) shows the initial page the administrator will see when they click on the User Maintenance sub menu.

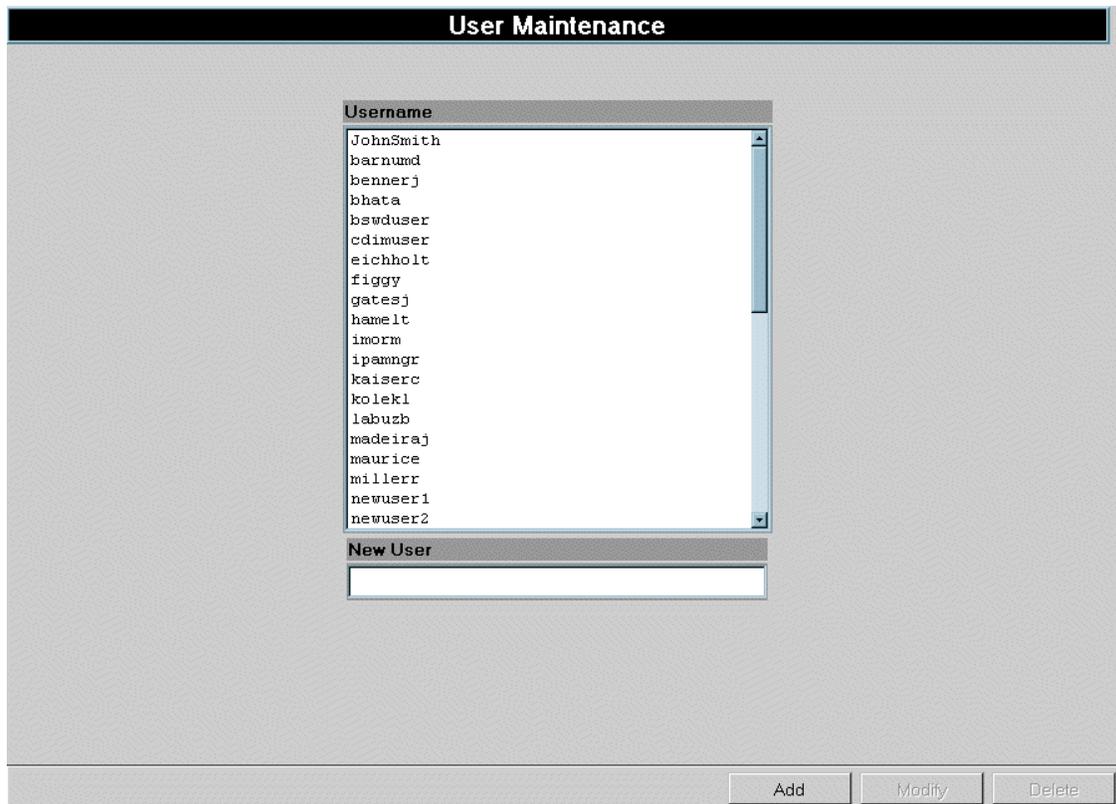


Figure 5.1 – User Maintenance

This page contains a list of users who are able to access log into Broadword.

Note: The username list is created by reading a directory in which Broadword profiles are kept. Thus, if a user has *not* logged into Broadword in the past, their username will not appear in the username list.

If the administrator would like to add a user to the Username List, the administrator should type the username into the text box located below the Username List. After entering the username into the text box, the administrator should then click on the Add button. Once the Add button has been activated, the new username will appear in the Username List. Initially, when the administrator accesses the above page, the Modify/Delete buttons are not accessible. In order to activate the buttons, one must select a username from the Username list. Once they have selected a Username, the administrator is able to do one of two things, Modify the selected account or Delete it. Figure 5.2 shows a Username selected with the buttons activated.

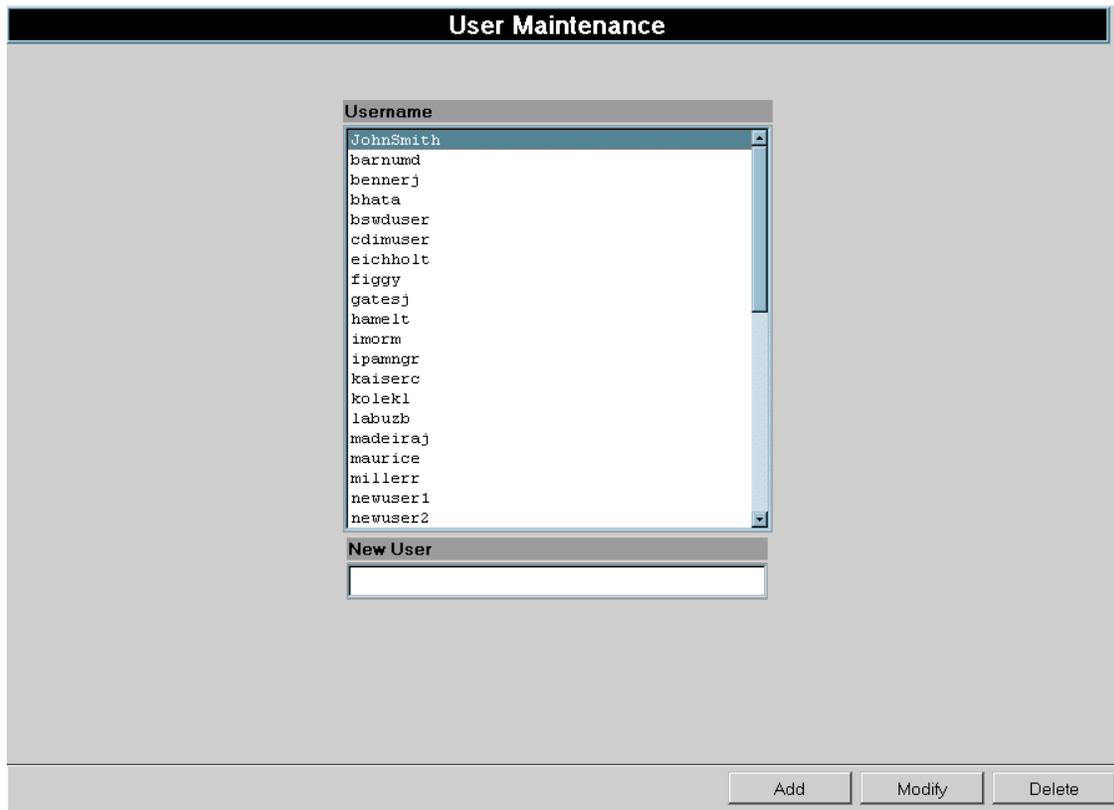


Figure 5.2 – User Maintenance (username selected)

For example, if the administrator chooses the Delete button, the administrator will be able to delete the selected Username.

Note: With a Non-AAM environment, deleting a user does *not* actually delete the user from the entire system. Rather, it deletes the user's relevant Broadword files.

If the administrator clicks on the delete button, a dialog box will appear that will allow the user to choose whether or not they actually want to go through with the process.

The administrator may like to modify an existing account. Like the Delete button, the Modify button will only become “active” when a user has been selected from the Username list (Figure 5.2). If a user selects a Username and clicks on the Modify button, the following page will appear (Figure 5.3):

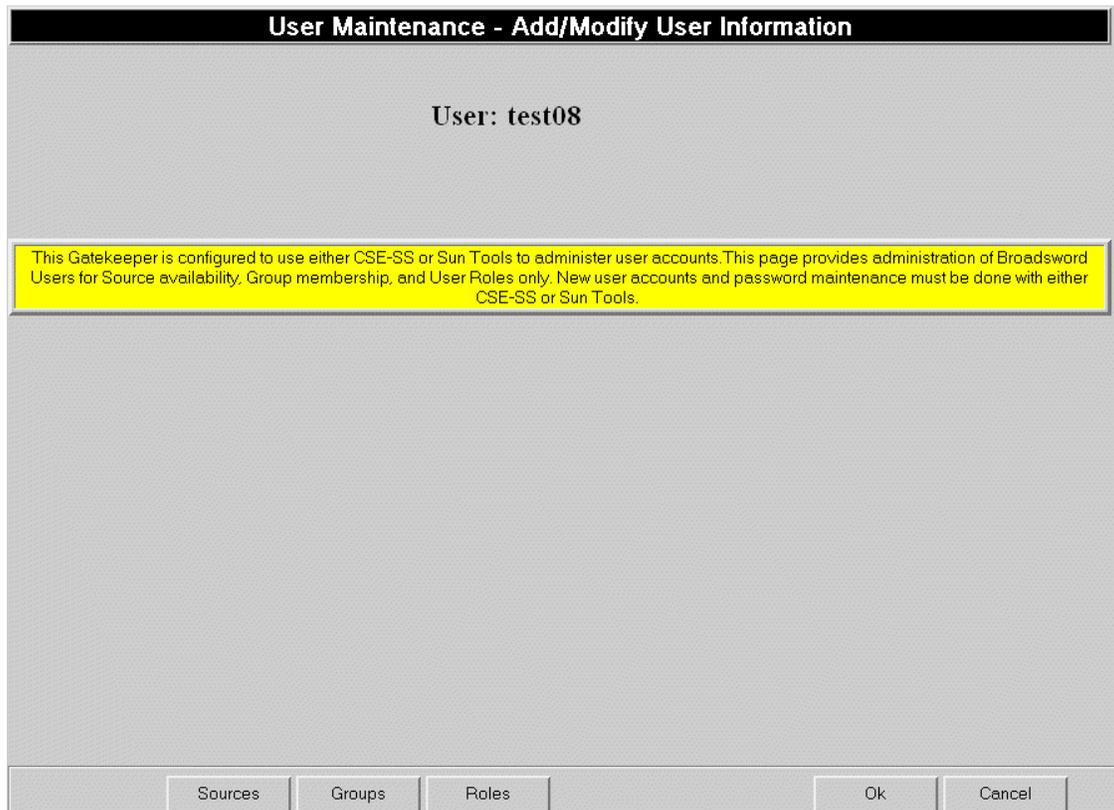


Figure 5.3 – User Maintenance (Modifying a user)

The Modify user page (Figure 5.3) contains a yellow banner in the middle of the page. Similar to adding a user, Broadsword is unable to modify user information in a Non-AAM environment. In order to modify the selected user, the environment’s appropriate software must be used. If the user chooses either the Ok or Cancel Button, the user will be brought back to the main User Maintenance page (Figure 5.2). If the administrator selects the Sources, Groups or Roles button, the user will be brought to the button’s relevant page. For information pertaining to these buttons (Sources, Groups, or Roles) reference section 5.3 of this manual.

5.2 User Maintenance in an AAM environment

The following section deals with User Maintenance in an AAM environment. If the administrator logs into Broadsword with AAM support, the administrator will be able to create user accounts using the Broadsword interface. The User Maintenance page is accessible by means of the top most menu bar. The user is able to navigate to the page by selecting on Administration → Users and Groups → User Maintenance. The following image (Figure 5.4) shows the initial page the user will see when they click on the User Maintenance sub menu:

User Name	Full Name	Title
bswduser	Broadsword User	
kaiserc	kaiserc kaiserc	Sir
maurice	Maurice DeMalkav	Maurice
mchalegb	Gabriel McHale	
millerr	Roger Miller	Roger
newuser1	New User	New
newuser2	New User2	New
reganm	Broadsword User	Test Dept. Lead
test02	Broadsword User	Tester
test07	Alex Raiano	Tester

Figure 5.4 – User Maintenance

From this screen (Figure 5.4) the administrator is able to see all existing accounts. For each username, a full name and title is given. Along with the information about the users, this page also contains three buttons (Add, Modify, or Delete). The Add button allows you to create a new user. The Modify button provides the ability to change an already existing user. The Delete button offers the ability to remove a user from the system. Upon initial entry into this page, note that the Modify and Delete buttons are disabled. In order to enable these buttons, the administrator must select an existing username from the list. Once the username has been selected, the Modify and Delete buttons will become active (Figure 5.5).

User Name	Full Name	Title
bswduser	Broadsword User	
kaiserc	kaiserc kaiserc	Sir
maurice	Maurice DeMalkav	Maurice
mchalegb	Gabriel McHale	
millerr	Roger Miller	Roger
newuser1	New User	New
newuser2	New User2	New
reganm	Broadsword User	Test Dept. Lead
test02	Broadsword User	Tester
test07	Alex Raiano	Tester

Buttons: Add, Modify, Delete

Figure 5.5 - User Maintenance (username selected)

If the administrator desires to add a new user to the system, all the administrator has to do is click on the Add button. The Add button brings up a page where the administrator is able to enter information about the new account that is going to be created (Figure 5.6).

Configuration Item	Value	Item Description
User ID	<input type="text"/>	This mandatory field is the user's ID.
Given Name	<input type="text"/>	This mandatory field contains the user's first name.
Middle Initial	<input type="text"/>	This mandatory field contains the user's middle initial.
Surname	<input type="text"/>	This mandatory field contains the user's last name.
Language Proficiency	RCL0, LCL0	Individual's evaluated ability to read, write, and speak a second language, other than english. Based on Defense Language Proficiency Test.
Citizenship	UNITED STATES (USA)	This mandatory field represents the countries that this user is a citizen of.
Home Organization	ACOM	This mandatory field contains the user's owning agency.
Account Locked?	N	This field indicates whether or not a user's account is locked.
Employee Type	USAF	Service Branch, Contractor, Civilian, FFRDC
Intelligence Community Email	<input type="text"/>	IC Email that operates across JWICS.
Telephone: Unclassified Voice Phone Number	<input type="text"/>	User's unclassified telephone number.
Company Name	<input type="text"/>	Company Name of the contractor.
Email: Internet Address	<input type="text"/>	Unclassified Internet Email

Sources Groups Roles Ok Apply Cancel

Figure 5.6 – Adding a User

Notice that initially, the Sources, Groups, and Roles buttons are not accessible. In order for these buttons to become active, the user must first fill out the form and Apply the changes. When the form has been completely filled out, the administrator can create the account by pressing either the Ok or Apply buttons. If the user selects the Ok button and there are no errors, a new account will be created and the user will be brought back to the initial User Maintenance page (Figure 5.4). If the administrator selects the Apply button and there are no errors, a new account will be setup and the administrator will stay at the current page. If there are errors in the creation of the new account, the administrator will be brought to a page that allows them to fix what is causing the problem. Missing data in one of the required fields will most likely cause the problem(s). At any time during the process, if the administrator decides not to create a new account, the administrator can click on the cancel button which will bring them back to the User Maintenance (Figure 5.4) page without a new account created. After submitting the account with the Apply button, the administrator has the option of adding/removing Sources, Roles and Groups. For information pertaining to these pages reference sections 5.3, 5.4, or 5.5 respectively. The new account is activated as soon as it is submitted. The new user is now able to login to the system using the default password. Upon entering the system for the first time, the new user will be required to change their default password.

To modify an existing user account, select the username that needs to be modified and click on the Modify button (Figure 5.4). Upon clicking on the Modify button, the administrator will be brought to the User Modification screen shown below:

Configuration Item	Value	Item Description
Name	User.Broadsword.bswduser	This field contains the user's full name including agency unique identifier.
User ID	bswduser	This mandatory field is the user's ID.
User Password	<input type="password"/>	This field contains the password for this Broadsword user.
Given Name	Broadsword	This mandatory field contains the user's first name.
Surname	User	This mandatory field contains the user's last name.
Citizenship	UNITED STATES (USA)	This mandatory field represents the countries that this user is a citizen of.
Home Organization	USAF	This mandatory field contains the user's owning agency.
Current Organization	AFRL/RRS	This field contains the agency to which the user is currently delegated.
Account Locked?	N	This field indicates whether or not a user's account is locked.
Number of Bad Login Attempts	0	This is the current count of failed logins.
Date of Last Password Change	20000504133335	This is the date on which the user's password was last changed.
Employee Type	USAF	Service Branch, Contractor, Civilian, FFRDC
Intelligence Community Email	<input type="text"/>	IC Email that operates across JWICS.
Telephone: Unclassified Voice	<input type="text"/>	User's unclassified telephone number

Sources Groups Roles Ok Apply Cancel

Figure 5.7 – Modifying a User

From this screen the administrator is able to change any data about a user. Along with the data about the account, the administrator is also able to change the selected account's Sources, Groups and Roles. If the administrator selects the Ok button and there are no errors, the account will be changed with the modification(s) provided and the administrator will be brought back to the initial User Maintenance page (Figure 5.4). If the administrator selects the Apply button and there are no errors in the form, the account will be modified and the user will stay at the current page. If there are errors in the modification of the account, the administrator will be brought to a page that allows them to fix what is causing the problem. Missing data in one of the required fields will most likely cause the problem(s). At any time during the process, if the user decides not to modify the chosen account, the user can click on the Cancel button, which will bring them back to the User Maintenance page (Figure 5.4) without any modifications made.

To delete an existing account, select a user from the list and click on the Delete button (Figure 5.4). Once the administrator clicks on the Delete button, the administrator will be shown a dialog box, which confirms the deletion.

Note: When the user deletes an account the deletion actually removes the user from the system. The removal does *not* simply eliminate the users relevant Broadsword files.

5.3 Adding/Removing Sources

This section contains information on how to assign/remove Sources for both AAM and CSE-SS environments. Both the AAM and Non-AAM environments are the same in terms of their functionality when it comes to assigning/removing Sources.

To modify the sources available for a particular user account, the administrator must click on the Sources button located on one of the previously mentioned pages (AAM: Add User (Figure 5.6) or Modify User (Figure 5.7) Non-AAM: Modify user (Figure 5.3)). Once the button has been clicked, the administrator will see the following page:

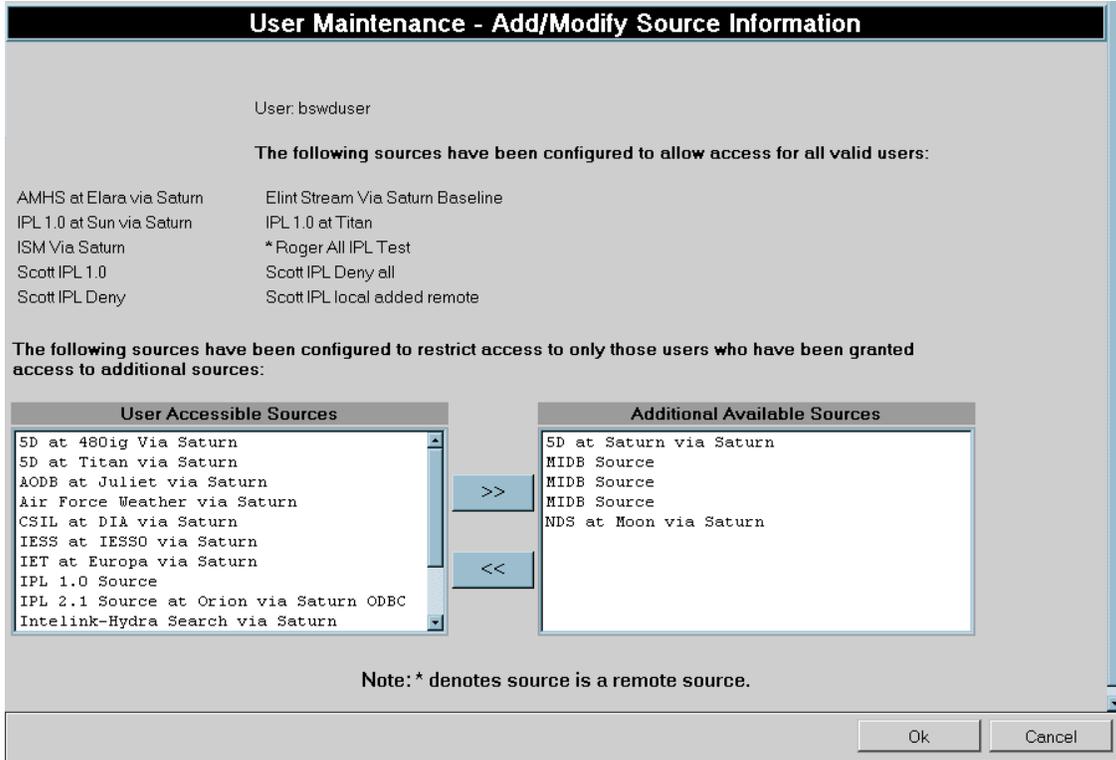


Figure 5.8 – Adding/Removing Sources

By using the list box and the appropriate arrows, the administrator is able to change which sources are available to the selected user. There are two types of sources, (1) sources which are given by default to all users whom have been granted access to the given Gatekeeper (2) sources which have been configured to restrict access and must be individually granted access to the user. To remove a source from a user, simply select it from the User Accessible Sources list and click on the right arrow. To add a source to a user, click on the source you want to add from the Additional Available Sources list and click on the left button.

Note: There can be source(s) that are available to all users. These “global” sources are located below the description that signifies them as such. Also note that remote sources are identified by an asterisk (*) before their name/description.

In order for the changes to take effect, the user must click on the Ok button, the user will then be brought back to the previous page. If the user clicks on the Cancel button, no changes will be made and the user will be brought back to the previous page.

5.4 Adding/Removing Roles

If the administrator would like to change a particular user’s Role(s), the administrator can click on the Roles button located on one of the relevant pages (AAM: Add User (Figure 5.6) or Modify User (Figure 5.7) Non-AAM: Modify user (Figure 5.3)). The Roles button brings up the following page:

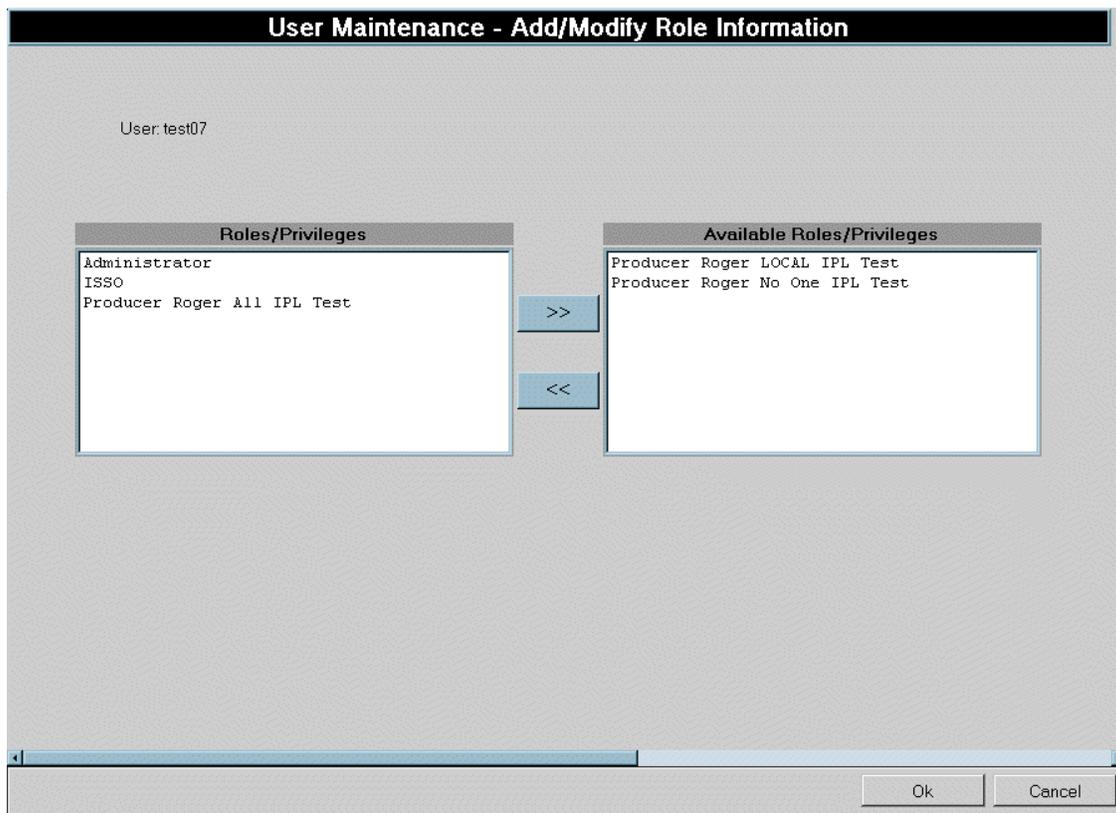


Figure 5.9 – Adding/Removing Roles

All of the user’s current Roles/Privileges appear in the leftmost list (Roles/Privileges). All other Available Roles/Privileges are located in the rightmost list. In order to remove/add a role(s) from the selected user, simply select a list item and click on the relevant button. Once the Ok button has been clicked, all changes will take effect and the administrator will be placed back to the previous page. If at any time the administrator clicks the Cancel button, all changes will be discarded and the administrator will be brought to the previous page.

5.5 Adding/Removing Groups

This section contains information on how to assign/remove Groups from a particular user. If you are in an AAM setting, you can access the Groups buttons from either the Add User (Figure 5.6) or Modify User (Figure 5.7) pages. If you are in a Non-AAM environment, you will be able to get at the Groups button from the Modify user page (Figure 5.3). Both the AAM and Non-AAM environments are the same in terms of their functionality when it comes to assigning/removing Groups.

If the administrator would like to change the Groups, the administrator must click on the Groups button located on one of the following pages (AAM: Add User (Figure 5.6) or Modify User (Figure 5.7) Non-AAM: Modify user (Figure 5.3)).

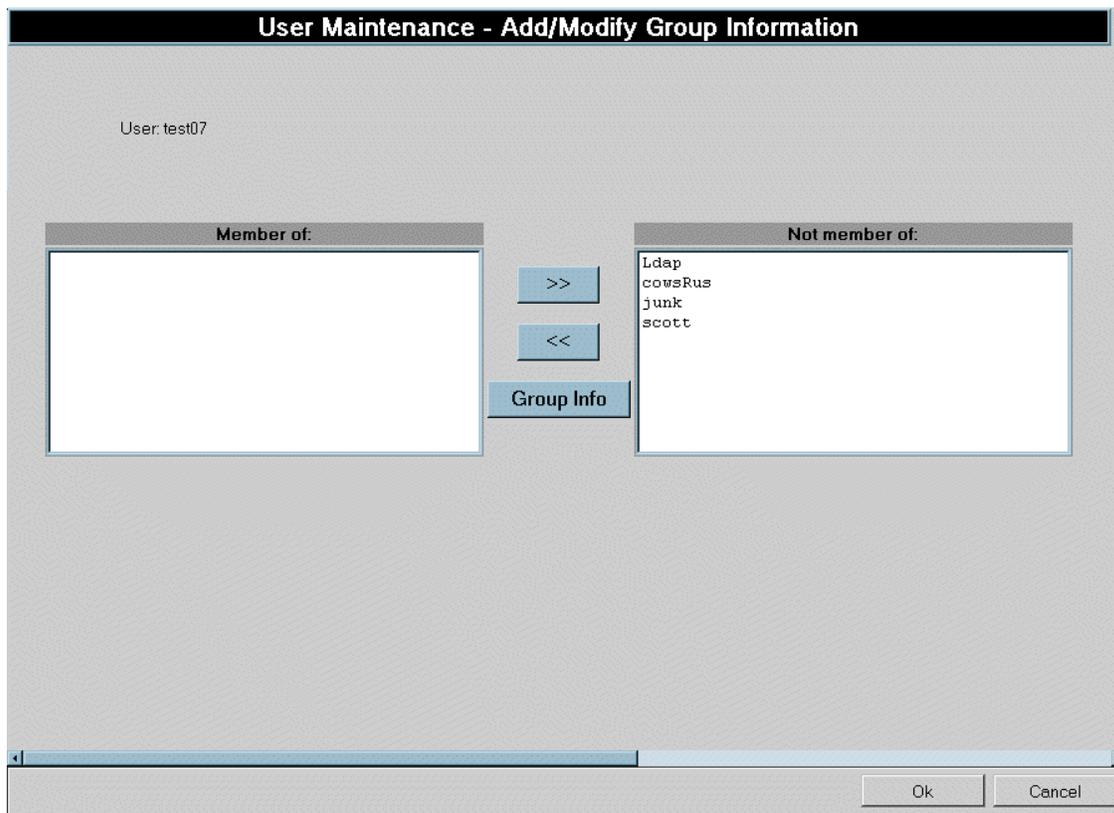


Figure 5.10 – Adding/Removing Groups

From this screen (Figure 5.9) the user can change a user's membership in a group(s). The left most box contains a list of group(s) that the user is currently a member of. The rightmost box contains a list of groups that the user is not currently a member of. In order to remove/add a group(s) from the selected user, simply select a list item and click on the relevant button. Once the Ok button has been clicked, all changes will take effect and the user will be placed back to the previous page. If at any time the user clicks the Cancel button, all changes will be discarded and the administrator will be brought to the previous page. If the administrator would like to view a particular group's member(s), the administrator should select the group that he is interested and then click on the View Group Info button. The View Group Info button will pop up a new window with what roles and source accesses have been assigned to the group and a list of users which have membership to the group.

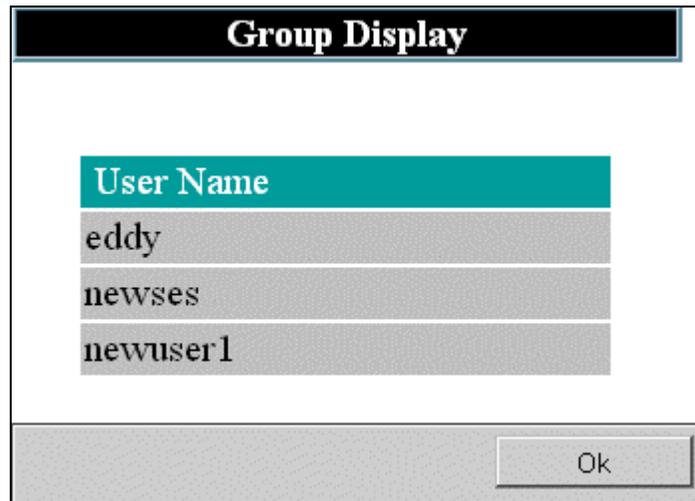


Figure 5.11 – Group Information

5.6 Adding, Modifying, and Deleting a Group

The following section pertains to Adding, Modifying and Deleting Groups. The Group Maintenance page is accessible by means of the top most menu bar. The user is able to navigate to the page by clicking on Administration → Users and Groups → Group Maintenance. The following image (Figure 5.12) shows the initial page the administrator will see when they click on the Group Maintenance sub menu.

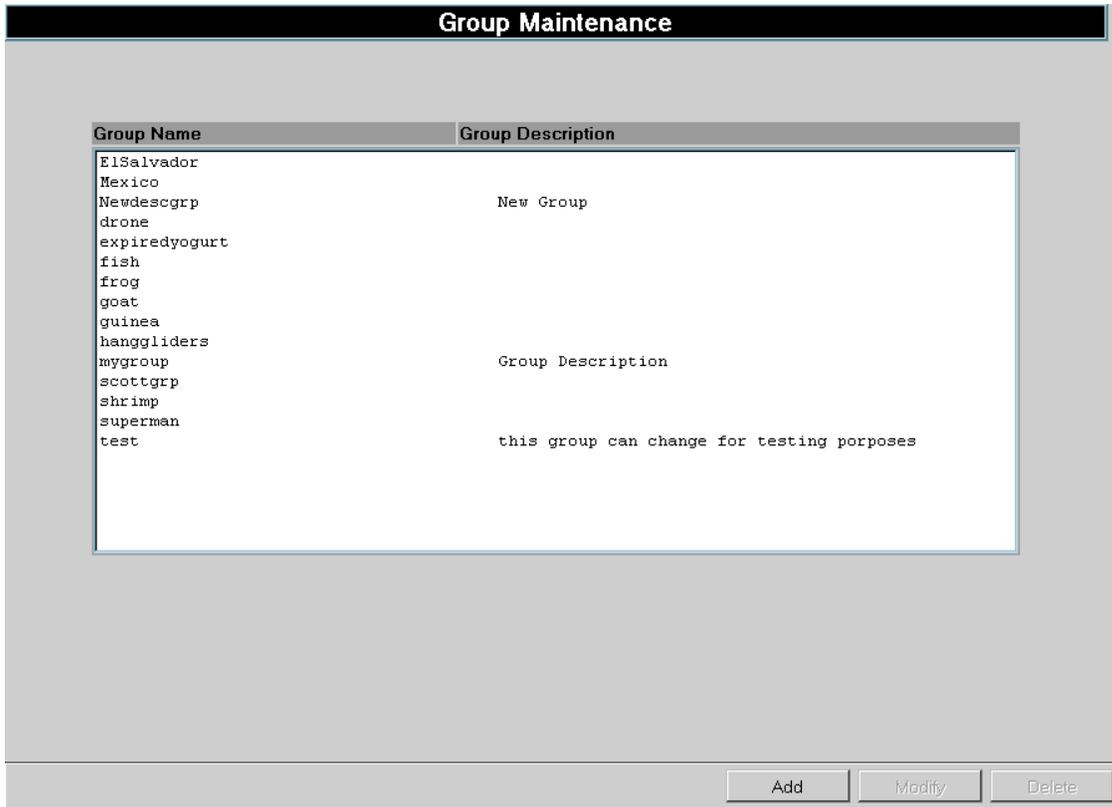


Figure 5.12 – Group Maintenance

From this screen (Figure 5.12) the administrator is able to see all existing Groups. For each Group Name, a Group Description can be given. Along with the information about the groups, this page also contains three buttons (Add, Modify, or Delete). The Add button allows you to create a new group. The Modify button provides the ability to change an already existing group. The Delete button offers the ability to remove a group from the system. Upon initial entry into this page, note that the Modify and Delete buttons are disabled. In order to enable these buttons, the administrator must select an existing group name from the list. Once the group name has been selected, the Modify and Delete buttons will become active (Figure 5.13).

Note: Broadsword groups are not UNIX groups.

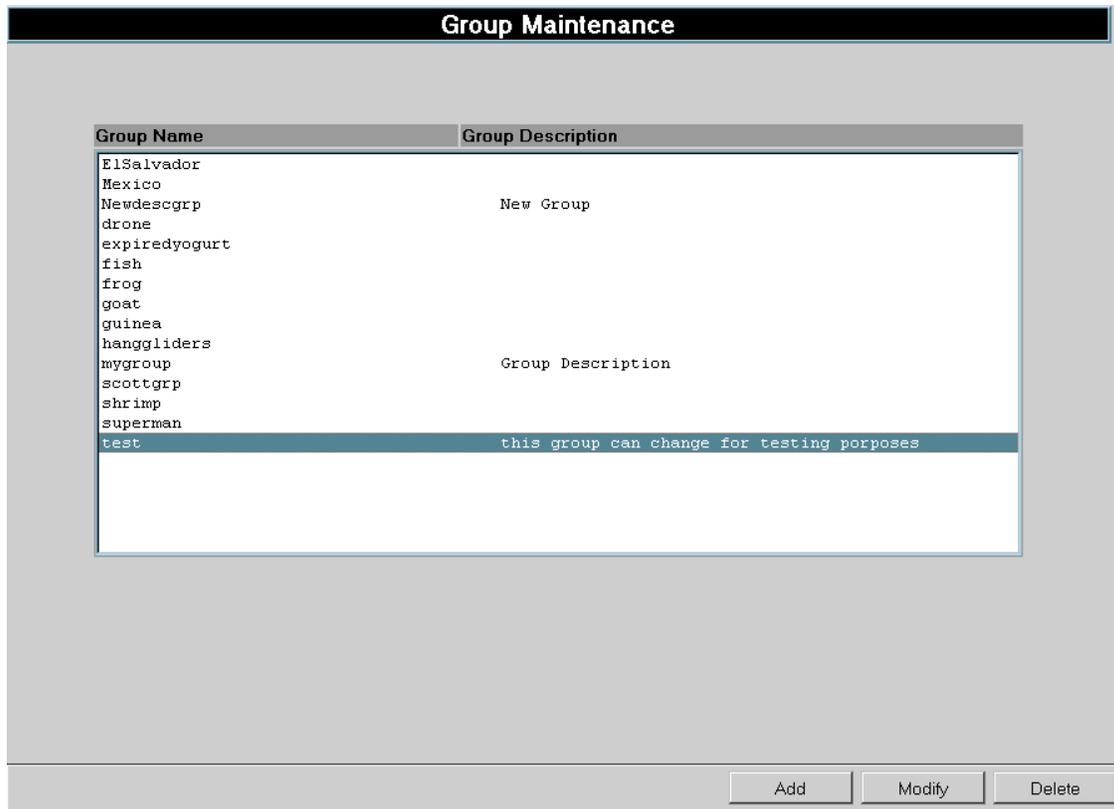


Figure 5.13 - Group Maintenance (group name selected)

If the administrator desires to add a new group to the system, all the administrator has to do is click on the Add button. The Add button brings up a page where the user is able to enter information about the new group that is going to be created (Figure 5.14).

The screenshot shows a dialog box titled "Group Maintenance - Add/Modify Group Information". It contains two text input fields: "Group Name" and "Description". At the bottom, there is a row of buttons: "Sources", "Roles", "Users", "Ok", "Apply", and "Cancel".

Figure 5.14 – Adding a group

Notice that initially, the Sources, Groups, and Users buttons are not accessible. In order for the administrator to be able to access these buttons, the administrator must first fill out the form and then Apply the changes. When the form has been completely filled out, the administrator can create the group by pressing either the Ok or Apply buttons. If the administrator selects the Ok button and there are no errors, a new group will be created and the administrator will be brought back to the initial Group Maintenance page (Figure 5.12). If the admin selects the Apply button and there are no errors, a new group will be setup and the administrator will stay at the current page. If there are errors in the creation of the new group, the administrator will be brought to a page that allows them to fix what is causing the problem. Missing data in one of the required fields will most likely cause the problem(s). At any time during the process, if the administrator decides not to create a new group, the administrator can click on the cancel button which will bring them back to the Group Maintenance (Figure 5.12) page without a new group created. The new group is activated as soon as it is submitted. After submitting the Group with the Apply button, the administrator has the option of adding/removing Sources, Roles and Users.

To modify an existing group, select the Group Name that needs to be modified and click on the Modify button (Figure 5.12). Upon clicking on the Modify button, the administrator will be brought to the Group Modification screen shown below:

Group Maintenance - Add/Modify Group Information

Group Name test

Description this group can change for testing purposes

Sources Roles Users Ok Apply Cancel

Figure 5.15 – Modifying a Group

From this screen the administrator is able to change any data about a group. Along with the data about the group, the administrator is also able to change the selected group's Sources, Roles and Users. Reference section 5.3, 5.4 or 5.5 for information pertaining to these pages. If the administrator selects the Ok button and there are no errors, the group will be changed with the modification(s) provided and the administrator will be brought back to the initial Group Maintenance page (Figure 5.12). If the administrator selects the Apply button and there are no errors in the form, the account will be modified and the administrator will stay at the current page. If there are errors in the modification of the group, the administrator will be brought to a page that allows them to fix what is causing the problem. Missing data in one of the required fields will most likely cause the problem(s). At any time during the process, if the administrator decides not to modify the chosen group, the administrator can click on the Cancel button, which will bring them back to the Group Maintenance page (Figure 5.12) without any modifications made.

To delete an existing group, select a group name from the list and click on the Delete button (Figure 5.12). Once the administrator clicks on the Delete button, the administrator will be shown a dialog box, which confirms the deletion.

5.7 Adding/Removing Sources

Note: Reference section 5.3.

5.8 Adding/Removing Roles

Note: Reference section 5.4.

5.9 Adding/Removing Users

This section contains information on how to add/remove Users from a particular Group. If the administrator would like to modify the Users in a group, the administrator must click on the Users button located on one of the previously mentioned pages (Add Group (Figure 5.14) or Modify Group (Figure 5.15)). Once the button has been clicked, the administrator will see the following page:

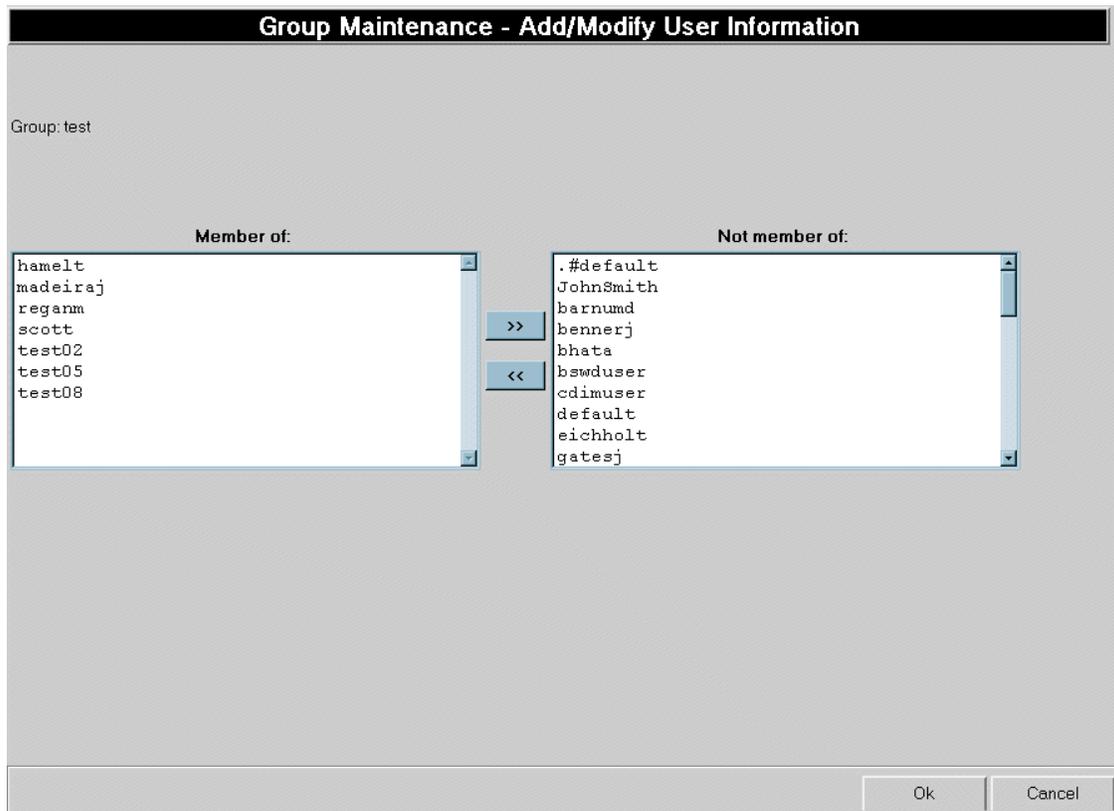


Figure 5.18 – Adding/Removing Users

All of the group's current Users appear in the leftmost list (Member of). All other Users are located in the rightmost list. In order to remove/add a user(s) from the selected group, simply select a list item and click on the relevant button. Once the Ok button has been clicked, all changes will take effect and the administrator will be placed back to the previous page. If at any time the administrator clicks the Cancel button, all changes will be discarded and the administrator will be brought to the previous page.

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Chapter 6

Client Requirements

The purpose of this chapter is to identify what software or application(s) that will be required to access the system. As a minimum, an HTML browser will be necessary. There is NO specific client software required to be loaded. Specific topics to be covered include:

- HTML Browsers

6.1 HTML Browsers

Keymaster requires a web browser that supports the HTML 4 standard. Netscape 4.0x or Internet Explorer 4.0x are recommended as a minimum. The system uses Javascript and hence Javascript must be turned on. The interface is best viewed using Netscape 4.7x or Internet Explorer 4.0x.

If caching is enabled on either Internet Explorer or Netscape, it is possible to visit previously loaded pages without reloading them from the server on which they reside. If there are any form elements on these pages, all data previously entered will still be present. Thus it would be possible to complete a Keymaster session, and then return to the login page and connect without retyping one's password. This problem may be circumvented by making sure to exit the browser after logging out, or by clearing the cache after a session. Another option is disabling the cache (see Note below).

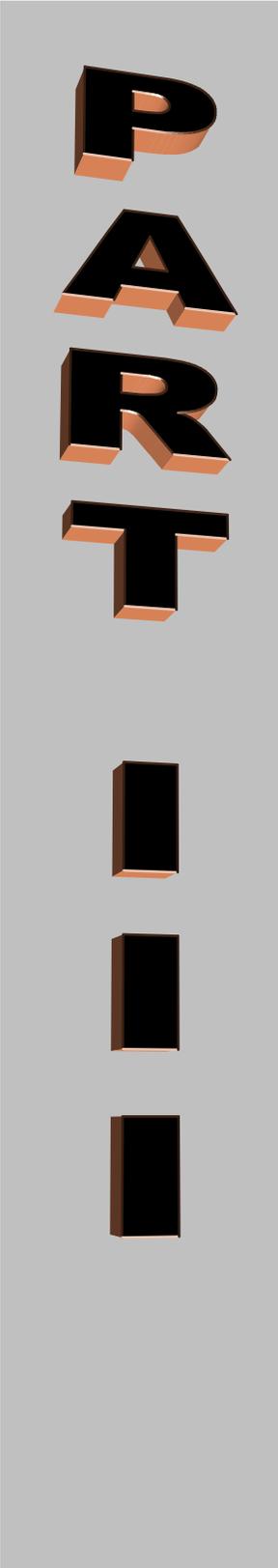
When using Netscape, resizing the browser window may cause the current page's data to be lost. The server will respond with a missing form data error. Reloading the form data will not return you to the expected page, since all of Keymaster's pages are created dynamically. In order to solve this problem, the user must enable the memory or disk cache under advanced preferences. This value should be suitably large (1000 K should work). Also, the appropriate option should be set to compare any cached document against the network document every time.

Operating System	Browser
Solaris 2.5.1	Netscape v4.7x and later
Windows 95/NT v4.0	Netscape v4.7x and later Internet Explorer v 4.0x and later

Table 6.1 Summary of Supported HTML Browsers

Note: Because of how fast Browsers are being released today, it's extremely difficult to keep up configuration issues. Please refer to the applicable browser documentation for configuration information.

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**P
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MAINTENANCE

The purpose of this part is to provide detailed information to maintain the system.

Topics covered in this part:

- System Status
 - Daemon Status
 - Set Debug Flags
 - Queue Maintenance
 - System and Log Information
 - Current Users

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Chapter 7

System Status

System Status provides the administrator the ability to manage the operations of the system. Tools are provided to show if all the necessary processes are running, the status of the message queues used for communication between the processes, management of system logs/available system space, ability to turn on/off debug flags to assist in identifying problems and to show the currently logged-in Keymaster users. By selecting the System Status option (under the Administration popdown menu), the Administrator is presented with a series of options as shown in Figure 7.1.

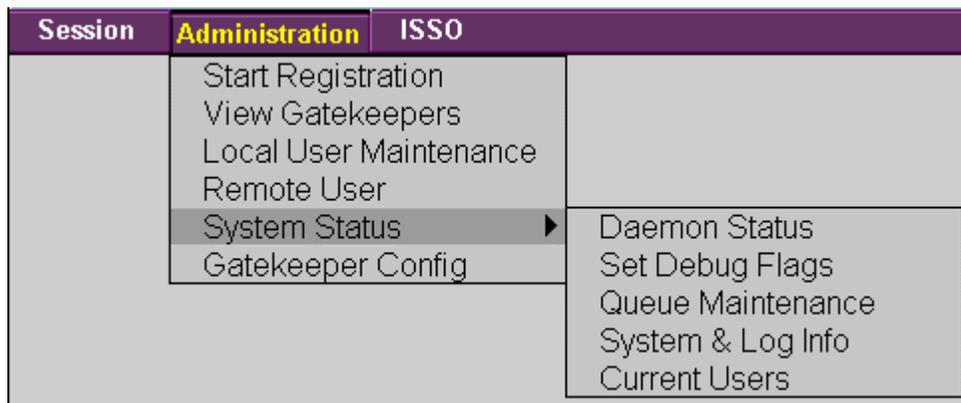


Figure 7.1 - System Status Tools

7.1 Daemon Status

The “Daemon Status” screen provides the administrator with the status of the processes that are required to run the current system. Figure 7.2 provides a sample of the Daemon Status screen.

Daemon Status		
Daemon Name	Process ID	Status
conan	3532	running
keymaster	3533	running
jivacron	29317	running
remote_plugin	29325	running

Figure 7.2 - Sample “Daemon Status” Screen

Note: Daemon Status is updated every 30 seconds automatically

The "**Daemon Status**" screen contains a table that shows the **Daemon Name**, **Process ID** and **Status** for each process. A description of each column follows:

Column Name	Contents
Daemon Name	Name of the daemon process. MANDATORY PROCESSES INCLUDE: conan, keymaster, jivacron, remote_plugin
Process ID	Process ID of the corresponding daemon process. POSSIBLE ENTRIES: Integer value, n/a
Status	Status of the corresponding daemon process. POSSIBLE ENTRIES: running, not running

Table 7.1 - Summary of Values

Upon installation, only the mandatory processes (conan,keymaster, jivacron, remote_plugin), will appear in the process table. Each process should have a process ID and a status of **running**.

It is not the purpose of this screen to start/stop the processes. It is not possible to provide this capability through the interface since two out of the four mandatory processes must be running for the interface to work. Thus, it would be possible to stop all processes through the interface, but not be able to start them (or even do anything else). Scripts are provided for the administrator to start, stop and find out whether system processes are running. These scripts are run from the command line.

Every 30 seconds the Daemon Status page will automatically refresh, showing the current state of each process.

To Start the System

To **start** all processes, do the following:

```
/opt/keymaster3.0/scripts/startserver <cr>
```

and press *<cr>* to take the defaults.

To Stop the System

To **stop** all processes, do the following:

```
/opt/keymaster3.0/scripts/stopservice <cr>
```

and follow the prompts

To Check the System

To **check** all processes, do the following:

```
/opt/keymaster3.0/scripts/whoserver <cr>
```

To Restart the Client Only

To **restart client** only, do the following:

```
cd /opt/keymaster3.0/client/bin <cr>  
./restart
```

7.1.1 Possible Problems/Solutions

The process table should contain information on each of the mandatory processes. There are several problem conditions that may occur. The following table lists these conditions. For each problem condition the normal process ID and status is shown, along with the process ID and status that appears when there is a problem. A possible solution to the problem is also provided.

Note: The Daemon Description, Process ID and Status will appear in red when a status of “**not running**” is displayed.

Condition	Normal		Problem		Possible Problem Solution
	Process ID	Status	Process ID	Status	
Process Should Be Running	integer value	running	n/a	not running	Check for existence of the Daemon Description file (binary). If binary exists, check its ownership and permissions. Also, check for a core file to determine if the process died.
Mandatory Process does not Appear	-	-	-	-	Contact Technical Assistance, which is identified on the Support screen.

Table 7.2 - Summary of Potential Problems/Solutions

7.2 Queue Maintenance

The "Queue Maintenance" screen allows the administrator to perform periodic maintenance on or trouble shoot problems related to the state of the message queue. The message queue shows the message traffic that occurs between the session manager (conan) and client processes (cgi-bins). Figure 7.3 provides a sample of the Queue Maintenance screen.

Queue Maintenance							
Queue ID	Access Modes	Owner	Current Bytes	Current # of Messages	Max Bytes	Last Pid to Send	Last Pid to Receive
1004	rw-rw-rw-	root	71	1	4096	3532	12386

Figure 7.3 - Sample "Queue Maintenance" Screen

The "Queue Maintenance" screen contains a table that displays information about the current state of the message queue. A description of the information in this table follows:

Column Name	Contents
Queue ID	Identifier for the message queue. VALID VALUE: integer
Access Modes	Message queue access modes are nine characters interpreted as three sets of three bits each. Reading from left to right, the first set refers to the owner's permissions; the next to permissions of others in the user group of the message queue; and the last to all others. Within each set, the first character indicates permission to read, the second character indicates permission to write or alter the message queue, and the last character is currently unused. The permissions are indicated as follows: r Read permission is granted; w Write permission is granted; a Alter permission is granted; - The indicated permission is not granted. VALID VALUE: rw-rw-rw-
Owner	Login name of the owner of the message queue. VALID VALUE: root
Current Bytes*	Number of bytes in messages currently outstanding on the message queue. VALID VALUE: less than the value of Max Bytes
Current # of Messages*	Number of messages currently outstanding on the message queue. VALID VALUE: any number that allows the Current Bytes for these messages to not exceed Max Bytes
Max Bytes	Maximum number of bytes allowed in messages outstanding on the message queue. VALID VALUE: integer
Last Pid to Send	Process ID of the last process to send a message to the queue. VALID VALUE: integer
Last Pid to Receive	Process ID of the last process to receive a message from the queue. VALID VALUE: integer

Table 7.3 - Summary of Queue Maintenance Values

Note: Current Bytes and Current # of Messages will appear in red when the Current # of Messages is greater than zero.

There is one button located on the bottom of the page: “**Pop Message**”. The table will automatically refresh itself every 10 seconds, showing the current state of the message queue. There are times when a message can get stuck in the queue. This can cause either an increase in response time or no response at all. Clicking on the “Pop Message” button allows the administrator to remove a message from the queue. Each click of the button will remove the message that is at the top of the queue.

7.2.1 Possible Problems/Solutions

Problems that may be related to the state of the message queue and possible solutions to these problems are listed in the following table:

Problem Condition	Possible Solution
A user cannot log into Keymaster or logins are taking an unusually long time	If the administrator cannot log into Keymaster the session manager, conan, may not be running. At the UNIX level check to see if the process conan is running. If conan is not running, start it up by typing /opt/keymaster<version_number>/bin/startconan. If conan is running, follow the instructions in the next problem solution.
Response time is unusually long after clicking any action button - OR - Get no response after clicking any action button	Messages may be stuck on the message queue or the Current Bytes on the queue may have exceeded the Max Bytes . Check for this by clicking the " Update Display " button. If the Current Bytes and Current # of Messages are greater than zero and these entries don't go down after a few refreshes, then messages are stuck on the queue. Release stuck messages from the queue by clicking the " Pop Message " button (see the “Button Functions” section for a description). Upon clicking the " Pop Message " button, information on the message that was removed from the queue will appear in a table (see the “Pop Message Info” section). Try popping all the stuck messages from the queue and see if the problem goes away. If the problem remains contact Technical Assistance, which is identified on the “Support” screen, and refer to the " Pop Message Info " table when discussing the problem.

Table 7.4 - Summary of Potential Problems/Solutions

7.2.2 Pop Message Info

The "**Pop Message Info**" table contains three types of information on the message that was popped from the message queue after clicking the "**Pop Message**" button. A description of these information types follow.

Information Type	Description
Receiving Process: OR Pid of Receiving Process:	Identifies the process that was to receive the message appearing in the queue. VALID VALUES: conan for Receiving Process , process ID of client process for Pid of Receiving Process
Command:	The command that initiated the message that was put on the queue by the sending process. VALID VALUES (conan): Server Response, Server Administration VALID VALUES (client processes): User Login, Save Data Set, Retrieve Data Set, Save User Record to File, Retrieve User Record, Update User Record, User Logout, Make Query, Update User's Preferences, Pull Product, Update E-mail Notification Profiles, Remove Data Set, Update Data Set, E-mail Notification Query, Update Map Data, Failed Login, Message Queue Initialization Failed, Send Message Failed, Receive Message Failed, No Login, User's Session Folder not Found, User's Preferences Folder not Found, User Record not Found, User's Preferences data not Found, Bad Query Status, Unknown Command
Message:	The message that was put on the queue by the sending process. If the sending process was conan, the message is the outcome of a request performed by conan. If the sending process was a client process, the message is information needed by conan to perform a request of the client process.

Table 7.5 - Summary of Messages

7.3 Set Debug Flags

The "Set Debug Flags" screen allows the administrator to set or clear debug flags prior to viewing a log file. The "Set Debug Flags" screen should be used when debugging a problem with the assistance of a technical support person. Technical Assistance is identified on the **Support** screen. Technical Assistance would instruct the administrator to set certain debug flags depending on the problem being addressed. The information sent to the log file depends on what debug flags are set. Figure 7.4 provides a sample of the Set Debug Flags screen.

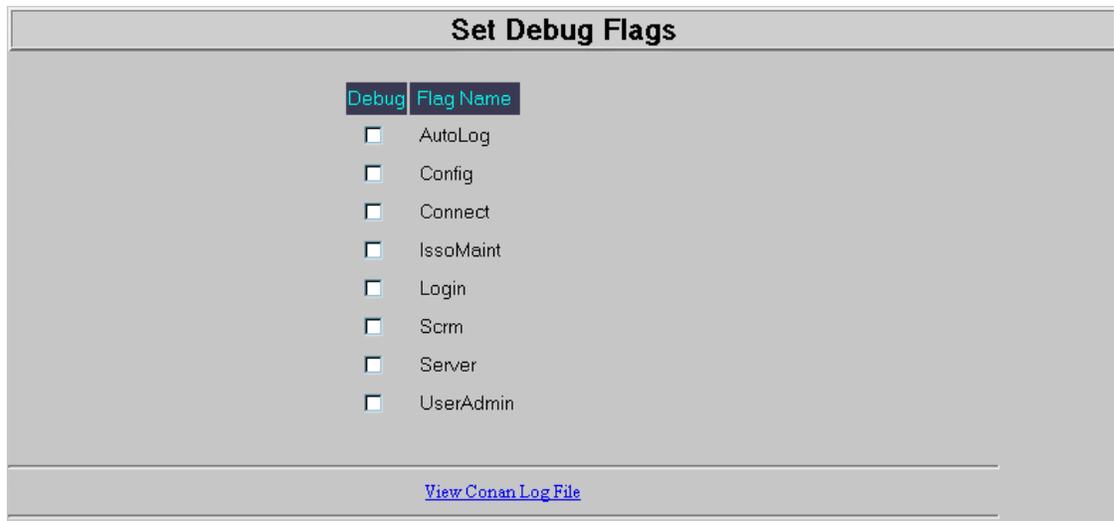


Figure 7.4 - Sample "Set Debug Flags" Screen

The "Set Debug Flags" screen contains a table with two columns. These columns are described as follows:

Column Name	Contents
Debug	Checkbox for selecting the debug flag.
Flag Name	Name of debug flag. Available Flags: Autolog, Config, Connect, IssoMaint, Login, Scrm, Server, UserAdmin

Table 7.6 Summary of Values

There are four buttons available on this page: (1) "Reset Form", (2) "All ON", (3) "All OFF", and (4) "Apply". Clicking the "All ON" button will turn on all the available flags while clicking the "All OFF" button will turn off all the flags. To select one or a subset of the available flags, click the box located next to the item and click on the "Apply" button. The "Reset Form" button will reset the form to those items that were selected upon entering the page.

The log file can be viewed by clicking on the anchor titled "View Conan Log File" located just above the button bar.

7.4 System and Log Information

The "System and Log Information" screen allows the administrator to monitor and/or free up disk space due to log files that are used by the system. Through the "System and Log Info" screen the administrator can select log files to be purged and monitor disk usage information on the file system where the system resides. Figure 7.5 provides a sample of the "System and Log Info" screen.

System and Log Info

To purge one or more log files, select the log files to be purged and press the "Purge Marked" button located below. Refer to the table immediately above the button bar for information on disk usage for the file system on which the client resides.

Select	Log File	Size in Bytes
<input type="checkbox"/>	jivacronlog	12,909
<input type="checkbox"/>	error_P.log	125,826
<input type="checkbox"/>	access_P.log	1,647,531
<input type="checkbox"/>	agent_log	28,733
<input type="checkbox"/>	referer_log	82,078
<input type="checkbox"/>	conan.log	193,348
<input type="checkbox"/>	cgi_debug.log	30,235

File System	Total Kilobytes	Used	Available	Capacity
/opt/keymaster3.0/client	33,452,032	31,121,408	2,330,624	93%

Figure 7.5 - Sample "System and Log Info" Screen

The "System and Log Info" screen contains two sections. The top section contains the log file information while the bottom section contains the disk usage information. The administrator should use the information from these two sections to determine if it is necessary to free up disk space due to the log files. The log file information is presented in a table with three columns which are described as follows:

Column Name	Contents
Select	Checkbox for selecting the log file.
Log File	Name of log file. ACCESSIBLE LOG FILES: jivacronlog,error_P.log, access_P.log, agent_log, referer_log, conan.log, cgi_debug.log
Size in Bytes	Size of the log file.

Table 7.7 - Summary of Values

The purpose of the accessible log files are described as follows:

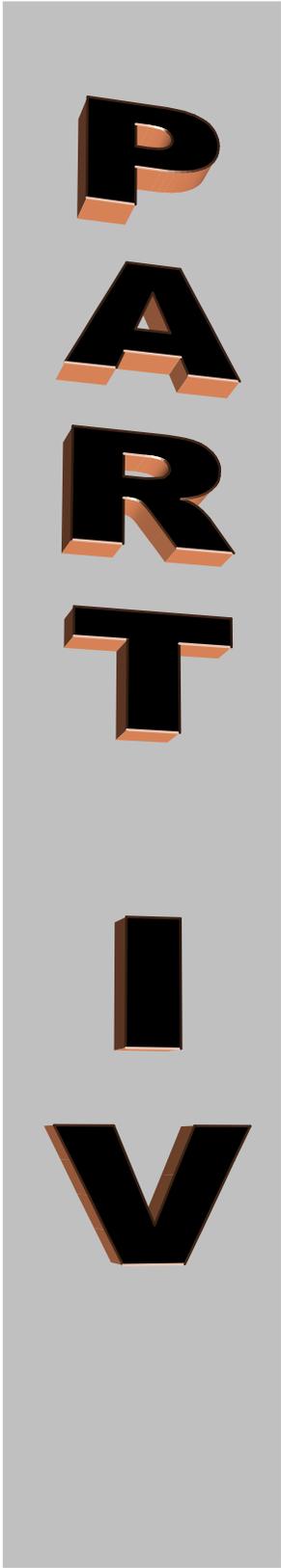
Log File	Purpose
jivacron.log	Logs Keymaster CRON information.
error_P.log	Logs httpd error information.
access_P.log	Logs httpd activity information.
agent_log	Logs browser identification information.
referer_log	Logs browser URL/page information.
conan.log	Logs session and client activity information.
cgi_debug.log	Logs CGI debug information.

Table 7.8 - Summary of Log Files

There are two buttons on this page: (1) **“Reset Form,”** (2) **“Update,”** and (3) **“Purge Marked”**. The **“Update”** button allows the administrator to display the latest information about the sizes of the log files. Since the table represents a snapshot in time and does not automatically update itself, it is necessary to initiate the update. This is done by clicking the **“Update”** button. To remove or purge the log files, the administrator must identify the file by clicking in the box next to the log file name and pressing the **“Purge Marked”** button. The **“Reset Form”** button clears the form to its original state. The table in the bottom section of the **“System and Log Info”** screen contains the disk usage information. The contents of this table are described as follows:

Column Name	Contents
File System	Name of file system that contains the log files.
Total Kilobytes	File system's total capacity in kilobytes.
Used	Amount of file system's total capacity that has been used, in kilobytes.
Available	Amount of file system's currently available capacity, in kilobytes.
Capacity	Percentage of file system's capacity that has been used.

Table 7.9 - Summary of Values



ISSO

The purpose of this part is to provide security-auditing capability to the ISSO. Sections covered in this part are:

Audit Log Maintenance
Archived Logs

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Chapter 8

ISSO

The ISSO Interface provides the ability to view, archive, or remove audit information from the Keymaster Sybase Database based on users(s), date/time and audit event. It also allows the ISSO to retrieve previously archived audits. This access is limited to authorized users only. Figure 8.1 shows the **Audit Log Maintenance** page.

The screenshot shows a web form titled "Audit Log Maintenance". It contains five input fields:

- User :** A text input field.
- Start Date :** A text input field with a placeholder "YYYYMMDDhhmmss" and the value "20000516130419".
- End Date :** A text input field with a placeholder "YYYYMMDDhhmmss" and the value "20000516130419".
- Event :** A dropdown menu with "All Events" selected.
- Archive File Name :** A text input field.

Figure 8.1 - Audit Log Maintenance Page

From this screen the ISSO may query the system for audit information based upon the criteria provided in the table. A description of each of these criteria follows:

Parameter	Description
User:	The user account being queried for audit information. DEFAULT: Blank; indicates all user accounts are being queried for audit information.
Start Date:	The start date/time of the audit information being queried. DEFAULT: Current date/time; if Start Date
End Date:	The end date/time of the audit information being queried. DEFAULT: Current date/time; if Start Date
Event:	The audit event being queried. POSSIBLE ENTRIES: All Events, Added DAC, Added Group, Added Group Member, Removed Group, Removed Group Member, Added User Privileges, Audit Dump,

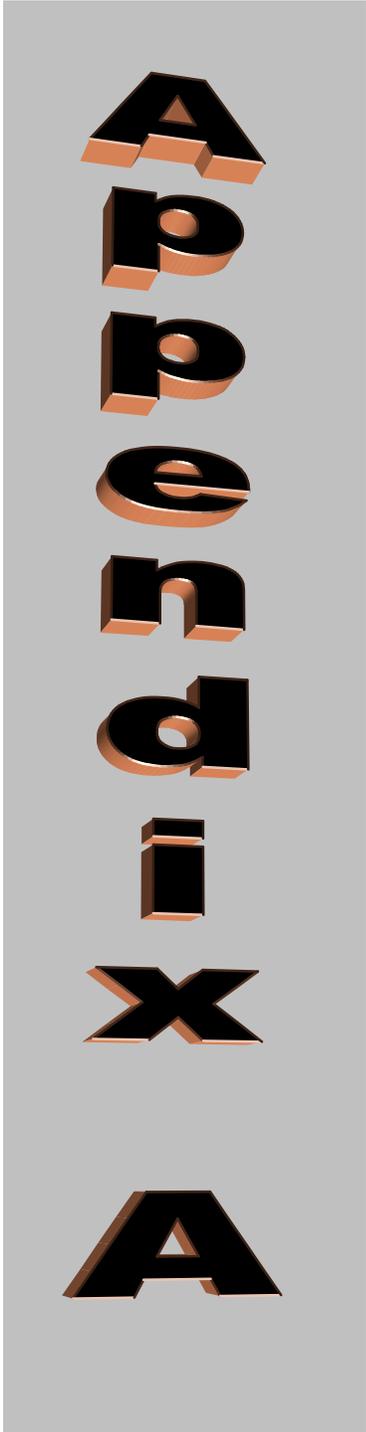
	Get Audit Archive List, Delete Audit, Keymaster Started, Keymaster Stopped, Got Audit Report, Remove DAC, Set User DAC, Remove User Privileges, Remove Remote Gatekeeper, User Logged In, User Logged Out, Accept Registration From Remote Gatekeepers, Register Our Gatekeeper With Keymaster, Update Daemon Status, New or Updated Gatekeeper Info, Set User Information, User Changed Password
Archive File Name:	Name of file to contain audit records being archived. (The directory path is not included in the filename.) PURPOSE: Needed only when using the " Archive Records " feature.

Table 8.1 - Query Parameters

The function of the buttons in the bottom button bar are described as follows:

Button Name	Function
Audit Report	Request an audit report for viewing based on the query parameters selected in the parameter table. If the query is successful, the audit report can be viewed by clicking the " View Audit Report " link located below the parameter table.
Archive Records	Archive the records returned from the query based on the parameters selected in the parameter table. The returned records are stored in the file indicated in the " Archive File Name " field of the parameter table. (This field contains only the filename and should not contain the directory path. The directory where the archive file goes is "/opt/Keymaster<version_number>/audits".)
Remove Records	Remove the records from the Keymaster Sybase Database that are returned from the query based on the parameters selected in the parameter table. Upon clicking this button, a verification warning message appears below the parameter table, requesting the administrator to click the " Remove Records " button a second time to complete the " Remove Records " request.
Reset	Returns the selections to their previously applied values.

Table 8.2 - Button Functions



Appendix A – Test Cases

- | |
|---|
| <ol style="list-style-type: none">1. Keymaster V3.0, General Function Test2. Regional User Maintenance |
|---|

This section contains procedures that verify that the installation and configuration of Broadsword Keymaster were performed correctly. The tests have been developed to minimize repetition. In some cases, however, repetition is necessary to demonstrate differing requirements. All tests are written to run independently of other tests whenever possible. In some cases, a particular test sequence may be required before a test can be completed. In those cases, the tests indicate the proper sequence of events.

The test procedure sheets are organized into four columns, as follows:

- a. Step - This column contains an Arabic numeral that gives each step in the procedure a unique identifier.
- b. Operator Input - This column describes the exact action to be performed by the operator.
- c. Expected Results - This column describes the expected result of the operator input. Unless otherwise noted, all observed results must be exactly as described in the expected results column. The Test Operator records any exceptions in either the Comments column or the Broadsword Test Packet.
- d. Comments - This column is used primarily for expanding on the Operator Input or Expected Results columns.

The Test Operator executes the steps described in the Test Procedure Sheets. During the testing, the Test Director maintains a Formal Test Log to chronologically record events relevant to the formal security testing.

During the execution of installation and configuration certification tests, hardware and/or software failures may occur. These failures impact the ability to continue testing. Consequently, these failures are categorized to provide direction for test continuance.

All software problems found during installation/maintenance testing are allocated in one of the following categories, and recorded in the formal test logs. Software failures are recorded on Software Problem Reports (SPR)'s in accordance with the Common User Baseline for the Intelligence Community (CUBIC) Configuration Management Plan for Broadsword. The following categories apply:

- a. Priority 1 - Critical Problem. This category encompasses those problems which are serious enough in nature to bring testing to a halt, or an accumulation of less critical problems which indicate that degradation of the integrity of the test has progressed to the point that the test must be stopped.
- b. Priority 2 - Major Problem. This category encompasses problems, which cause a loss of efficiency or effectiveness in the ability to complete the test being executed.
- c. Priority 3 - Minor Problem. This category includes those anomalies, which are, in fact, a problem, but have insufficient impact to warrant discontinuance of testing. For an anomaly to fit this category, it cannot affect the results of the test being performed or any future tests.

Corrective action, as a result of an SPR generated during security certification testing, depends on how the problem was categorized. A Priority 1 SPR requires that the software development organization correct the problem prior to the continuance of testing. A Priority 2 SPR requires a decision by the Test

Director as to whether a software fix is required before continuing with security certification testing. A Priority 3 SPR does not require software fix during security certification testing.

Note: To the Tests create the following accounts:

- bswdadmn
- bswdstst1
- bswdisso

Test Case 1	
Site Acceptance Test Procedure	
Test Procedure Name:	Keymaster V3.0, General Function Test
Objective:	Site acceptance for General Functions.
Comments: Login to the proper port and peruse the Help menu.	
Prerequisites: To run this test you will need the following: (1) URL of the assigned Server & a valid user id/password	
Test Date: _____	Time of Test: _____
	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

Step	Operator Input	Expected Results	Comments
1	Log into your workstation. Method will vary by workstation type.	User will be logged into workstation.	Login
2	On your workstation, start the browser. Method will vary by workstation type.	The browser will open in a separate window.	Browser
3	In the Browser window, in the Location area, enter the URL for Broadsword Keymaster and press Enter.	The Keymaster Login page will be displayed.	Login
4	In the Username box, enter a valid user account name and valid password, then click on “Accept” .	The View/Remove Gatekeepers page will be displayed.	Login
5	Click on “Help” in the menu bar.	The Help drop-down box appears	
6	Click on “Support” in the drop-down box.	The “Project Broadsword Points of Contact” page will be displayed in a separate window.	Support
7	Close the Support window.	The Support window will close. The View/Remove Gatekeepers page will still be displayed.	
8	Click on “Feedback” in the Help drop-down box.	The Feedback form will be displayed in a separate window. All entries should be blank.	Feedback
9	Close the Feedback window.	The Feedback window will close. The View/Remove Gatekeepers page will still be displayed.	
10	Click on “About” in the Help drop-down box.	The “About Project Broadsword” page will be displayed.	About
11	Close the About Project Broadsword window.	The Project Broadsword window will close. The View/Remove Gatekeepers page will still be displayed.	
12	Click on “Session” on the menu bar, select “Logout” in the top frame.	A window will appear asking if the operator wants to end the session.	Logout
13	Click on “OK” .	User will be logged out and the Login page will be displayed.	

Test Case 2

Site Acceptance Test Procedure

Test Procedure Name:	Keymaster V3.0, Regional User Maintenance
Objective:	This test procedure demonstrates the creation and maintenance of user accounts through the Access and Authentication Module (AAM) from a Keymaster to a specified registered Gatekeeper.

Comments: This test exercises the capabilities provided through the AAM and the ability of a specified Keymaster administrator to perform regional user maintenance on a registered Gatekeeper. Specifically this test exercises the following functionality:

- Testing Access/Authentication Mechanisms between Keymaster and Gatekeeper
- Creating a User Account
- Modifying a User Account
- Deleting a User Account
- Auditing of all Events

Prerequisites: To run this test you will need to have the following:

- (1) URL of the assigned Gatekeeper & a valid user id/password (access to administrator and ISSO privileges)
- (2) URL of the Keymaster & a valid user id/password (access to administrator and ISSO privileges)
- (2) Gatekeeper LDAP Server Name, Port Number, Bind Distinguished Name and Password
- (3) Master LDAP Server Name, Port Number, Bind Distinguished Name and Password

Test Date: _____

Time of Test: _____

Pass
Fail

<input type="checkbox"/>
<input type="checkbox"/>

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
1		Log into your workstation. Method will vary by workstation type.	User will be logged into workstation.	This may not be necessary.
2		On your workstation, start the browser. Method will vary by workstation type.	The browser will open in a separate window.	
3		In the Browser window, in the Location area, enter the URL ([host name or IP address] : port number) of the Broadword system and press "Enter".	The Broadword Login page will be displayed.	
4		In the Username box, enter a user name and password, then click on "Accept".	The main page will be displayed. INVALID LOG IN	
5		In the xterm connected to the Gatekeeper LDAP server, verify user was added : <pre>./ldapsearch -b"o=U.S. Government, c=US" -h HOSTNAME -p PORT NUMBER -D"BIND DN" -w LDAP PASSWORD "cn=*USERID*" </pre> Press the enter key.	Where HOSTNAME is the hostname on which the LDAP server is running, for example "sun" PORT NUMBER is the port on which the LDAP server is running, typically port "389" BIND DN is the Distinguished Name "cn=Directory Manager" LDAP PASSWORD is the LDAP manager password assigned during installation USERID is the userid of the user to see if an entry exists "test01". Must begin and end with "*"	
6		If the userid exists, a list of attributes/values will be provided. Verify userid does not exist.	<u>Example Output</u> <pre>dn: uid=TTester,o=U.S. Government,c=US mail: test01@rl.af.mil cn: Test01 Tester uid: TTester givenname: Test01 sn: Tester facsimiletelephonenumber: 315-330-3913 telephonenumber: 315-330-4429 </pre>	
7		In the xterm connected to the Master LDAP server, verify user was added : <pre>./ldapsearch -b"o=U.S. Government, c=US" -h HOSTNAME -p PORT NUMBER -D"BIND DN" -w LDAP PASSWORD "cn=*USERID*" </pre>	Where HOSTNAME is the hostname on which the LDAP server is running, for example "sun" PORT NUMBER is the port on which the LDAP server is running, typically port "389" BIND DN is the Distinguished	

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
		Press the enter key.	Name "cn=Directory Manager" LDAP PASSWORD is the LDAP manager password assigned during installation USERID is the userid of the user to see if an entry exists "test01". Must begin and end with "*"	
8		If the userid exists, a list of attributes/values will be provided. Verify userid does not exist.	<u>Example Output</u> <i>dn: uid=TTester,o=U.S. Government,c=US mail: test01@rl.af.mil cn: Test01 Tester uid: TTester givenname: Test01 sn: Tester facsimiletelephonenumber: 315-330-3913 telephonenumber: 315-330-4429</i>	
9		In the Browser window, in the Location area, enter the URL ([host name or IP address] : port number) of the Keymaster and press "Enter".	The Broadsword/Keymaster Login page will be displayed.	
10		In the Username box, enter a user name and password, then click on "Accept".		
11		Verify Keymaster allowed to perform maintenance on gatekeeper		Test Gatekeeper allowing remote user maintenance.
12		If not, grant permission from Gatekeeper		
13		In the Username box, enter a user name and password which has System Administration and ISSO privileges, then click on "Accept".	The main page will be displayed.	

Section 1 Create a new user.				
14		Click on " Administration " on the menu bar. Select " User and Groups " " User Maintenance ".	A list of users will appear in a window.	
15		Click on the "Add" button located at the bottom of the window.	A second screen will appear allowing the administrator to add user information.	Add user information to include userid and an initial password. Initial password can be anything (does not have to adhere to security constraints). Also ensure that the account is unlocked
16		Click on the "Apply" button located at the bottom of the window.	The screen will reappear. The user information is stored and the Source, Roles, and Groups buttons	

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
			will be sensitized.	
17		Click on the "Source" button located at the bottom of the window.	A screen will appear which contains two lists. The first will be a list of sources that the user currently has access to, the second window has a list of sources that the current user does not have access to.	NOTE THE SOURCE(S) THAT THE USER HAS ACCESS TO.
18		Click "Cancel" button located at the bottom of the window.	The administrator will be returned back to the User Information main screen.	
19		Click on the "Roles" button located at the bottom of the window.	A screen will appear which contains two lists. The first will be a list of roles that the user currently has access to, the second window has a list of roles that the current user does not have access to.	NOTE THE ROLE(S) THAT THE USER HAS ACCESS TO.
20		Click "Cancel" button located at the bottom of the window.	The administrator will be returned back to the User Information main screen.	
21		Click on the "Groups" button located at the bottom of the window.	A screen will appear which contains two lists. The first will be a list of groups that the user currently has access to, the second window has a list of groups that the current user does not have access to.	NOTE THE GROUPS THE USER HAS ACCESS TO BY DEFAULT.
22		Click "Cancel" button located at the bottom of the window.	The administrator will be returned back to the User Information main screen.	
23		Click the "OK" button	Return back to the main user administration page.	
24		Click on "Session" on the menu bar. Select "Logout".	Current administrator will be logged off and returned back to the main window.	
25		Click on "OK".	User will be logged out.	
26		In the xterm connected to the Gatekeeper LDAP server, verify user was added : "/ldapsearch -b"o=U.S. Government, c=US" -h HOSTNAME -p PORT NUMBER -D" BIND DN " -w LDAP PASSWORD "cn=* USERID *" Press the enter key.	Where HOSTNAME is the hostname on which the LDAP server is running, for example "sun" PORT NUMBER is the port on which the LDAP server is running, typically port "389" BIND DN is the Distinguished Name "cn=Directory Manager" LDAP PASSWORD is the LDAP manager password assigned during installation USERID is the userid of the user to see if an entry exists "test01". Must begin and end with "*"	
27		If the userid exists, a list of attributes/values will be provided.	<u>Example Output</u>	

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
		Verify userid does exist.	<i>dn: uid=TTester,o=U.S. Government,c=US mail: test01@rl.af.mil cn: Test01 Tester uid: TTester givenname: Test01 sn: Tester facsimiletelephonenumber: 315-330-3913 telephonenumber: 315-330-4429</i>	
28		In the xterm connected to the Master LDAP server, verify user was added : “./ldapsearch -b"o=U.S. Government, c=US" -h HOSTNAME -p PORT NUMBER -D" BIND DN " -w LDAP PASSWORD "cn=* USERID *" <p>Press the enter key.</p>	Where HOSTNAME is the hostname on which the LDAP server is running, for example “sun” PORT NUMBER is the port on which the LDAP server is running, typically port “389” BIND DN is the Distinguished Name “cn=Directory Manager” LDAP PASSWORD is the LDAP manager password assigned during installation USERID is the userid of the user to see if an entry exists “test01”. Must begin and end with “*”	
29		If the userid exists, a list of attributes/values will be provided. Verify userid does exist.	<u>Example Output</u> <i>dn: uid=TTester,o=U.S. Government,c=US mail: test01@rl.af.mil cn: Test01 Tester uid: TTester givenname: Test01 sn: Tester facsimiletelephonenumber: 315-330-3913 telephonenumber: 315-330-4429</i>	

Section 2 Test new user account.				
30		In the Username box, enter a user name and password which has System Administration and ISSO privileges, then click on “Accept”.	The main page will be displayed.	Local Broadsword
31		Click on “Administration” on the menu bar. Select “User and Groups” “User Maintenance”.	A list of users will appear in the window below.	
32		Select the userid (created in section 1) and click the “Modify” button located at the bottom of the	A second screen will appear showing all the user information.	Verify user information as entered through the Keymaster.

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
		window.		
33		Click on “ Session ” on the menu bar. Select “ Logout ”.	A dialog box will appear stating “Logout”	
34		Click on “OK”.	User will be logged out.	
35		In the Username box, enter the user name created in section 1 and the valid password in the Password box, then click on “Accept”.	The user will be logged in and the change their password screen will appear.	
36		In the first box enter a valid password. Enter the same password in the second box.	A dialog box will be returned stating that the password has been changed.	
37		Click on “ Session ” on the menu bar. Select “ Logout ”.	A dialog box will appear stating “Logout”	
38		Click on “OK”.	User will be logged out.	

Section 3 Modify User sources, privileges and groups.				
39		In the Username box, enter a user name and password which has System Administration and ISSO privileges, then click on “Accept”.	The main page will be displayed.	Keymaster
40		Click on “ Administration ” on the menu bar. Select “ User and Groups ” “ User Maintenance ”.	A list of users will appear in the window below.	
41		Select the userid (created in section 1) and click the “Modify” button located at the bottom of the window.	A second screen will appear showing all the user information.	
42		Click on the “Source” button located at the bottom of the window.	A screen will appear which contains two lists. The first will be a list of sources that the user currently has access to, the second window has a list of sources that the current user does not have access to.	
43		Modify the available source(s) by selecting one or more items on the left and clicking the arrows pointing to the right. Click the “OK” button located at the bottom of the window.	After clicking on the “Add” button the administrator will be returned back to the User Information main screen.	NOTE THE SOURCES THE USER HAS ACCESS TO.
44		Click on the “Roles” button located at the bottom of the window.	A screen will appear which contains two lists. The first will be a list of roles that the user currently has access to, the second window has a list of roles that the current user does not have access to.	
45		Modify the available role(s) by selecting one or more items on the right and clicking the arrows pointing to the left. Click the “OK” button located at the bottom of the window.	The changes will be saved and the administrator will be returned back to the User Information main screen.	NOTE THE ROLE(S) THAT THE USER HAS ACCESS TO.
46		Click the “OK” button	Return back to the main user administration page.	

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
47		Click on " Session " on the menu bar. Select " Logout ".	Current administrator will be logged off and returned back to the main window.	
48		Click on "OK".	Administrator will be logged out.	
49		In the Username box, enter a user name and password which has System Administration and ISSO privileges, then click on "Accept".	The main page will be displayed.	Local Broadsword
50		Click on " Administration " on the menu bar. Select " User and Groups " " User Maintenance ".	A list of users will appear in the window below.	
51		Select the userid (created in section 1) and click the "Modify" button located at the bottom of the window.	A second screen will appear showing all the user information.	Verify user information as entered through the Keymaster.
52		Click on " Session " on the menu bar. Select " Logout ".	A dialog box will appear stating "Logout"	
53		Click on "OK".	User will be logged out.	
54		In the Username box, enter the user name and a valid password in the Password box, then click on "Accept".	The user should be logged into and the main user page shown.	Verify additional roles have been assigned by the addition of menu items available off the title bar.
55		Click on " Session " on the menu bar. Select " Preferences " " Search Sources ".	The list of sources that the user has access to will be displayed.	Verify additional sources have been added to the user's list.
56		Click on " Session " on the menu bar. Select " Logout ".	A Dialog box will appear stating "Logout of Session?"	
57		Click on "OK".	User will be logged out.	
58		In the Username box, enter a user name and password which has System Administration and ISSO privileges, then click on "Accept".	The main page will be displayed.	Keymaster, Undo the previous changes
59		Click on " Administration " of the menu bar. Select " User and Groups " " User Maintenance ".	A list of users will appear in a window.	
60		Select a userid and click on the "Modify" button located at the bottom of the window.	A second screen will appear allowing the administrator to add user information.	
61		Click on the "Source" button located at the bottom of the window.	A screen will appear which contains two lists. The first will be a list of sources that the user currently has access to, the second window has a list of sources that the current user does not have access to.	
62		Undo the changes done earlier in this section by returning access to the sources that the user previously had and clicking the appropriate arrow. Click the "OK" button located at the bottom of the window.	The changes will be saved and the administrator will be returned back to the User Information main screen.	NOTE THE SOURCE(S) THAT THE USER HAS ACCESS TO.
63		Click on the "Roles" button located at the bottom of the window.	A screen will appear which contains two lists. The first will be a list of	

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
			roles that the user currently has access to, the second window has a list of roles that the current user does not have access to.	
64		Undo the changes done earlier in this section by returning access to the sources that the user previously had and clicking the appropriate arrow. Click the "OK" button located at the bottom of the window.	The changes will be saved and the administrator will be returned back to the User Information main screen.	NOTE THE ROLE(S) THAT THE USER HAS ACCESS TO.
65		Click the "OK" button	Return back to the main user administration page.	
66		Click on "Session" on the menu bar. Select "Logout".	Current administrator will be logged off and returned back to the main window.	
67		Click on "OK".	Administrator will be logged out.	
68		In the xterm connected to the Gatekeeper LDAP server, verify user was added : <pre>./ldapsearch -b"o=U.S. Government, c=US" -h HOSTNAME -p PORT NUMBER -D"BIND DN" -w LDAP PASSWORD "cn=USERID*" </pre> Press the enter key.	Where HOSTNAME is the hostname on which the LDAP server is running, for example "sun" PORT NUMBER is the port on which the LDAP server is running, typically port "389" BIND DN is the Distinguished Name "cn=Directory Manager" LDAP PASSWORD is the LDAP manager password assigned during installation USERID is the userid of the user to see if an entry exists "test01". Must begin and end with "*"	
69		If the userid exists, a list of attributes/values will be provided. Verify changes have been propagated.	Example Output <pre>dn: uid=TTester,o=U.S. Government,c=US mail: test01@rl.af.mil cn: Test01 Tester uid: TTester givenname: Test01 sn: Tester facsimiletelephonenumber: 315- 330-3913 telephonenumber: 315-330-4429 </pre>	
70		In the xterm connected to the Master LDAP server, verify user was added : <pre>./ldapsearch -b"o=U.S. Government, c=US" -h </pre>	Where HOSTNAME is the hostname on which the LDAP server is running, for example "sun" PORT NUMBER is the port on which the LDAP server is running,	

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
		HOSTNAME -p PORT NUMBER -D"BIND DN" -w LDAP PASSWORD "cn=*USERID*" Press the enter key.	typically port "389" BIND DN is the Distinguished Name "cn=Directory Manager" LDAP PASSWORD is the LDAP manager password assigned during installation USERID is the userid of the user to see if an entry exists "test01". Must begin and end with "*"	
71		If the userid exists, a list of attributes/values will be provided. Verify changes have been propagated.	<u>Example Output</u> <i>dn: uid=TTester,o=U.S. Government,c=US mail: test01@rl.af.mil cn: Test01 Tester uid: TTester givenname: Test01 sn: Tester facsimiletelephonenumber: 315-330-3913 telephonenumber: 315-330-4429</i>	

Section 4 Delete User Account.				
72		In the Username box, enter a user name and password which has System Administration and ISSO privileges, then click on "Accept".	The main page will be displayed.	Keymaster
73		Click on " Administration " on the menu bar. Select " User and Groups " " User Maintenance ".	A list of users will appear in the window below.	
74		Select the userid created in section 1 and click the "Delete" button located at the bottom of the window.	A dialog box will appear stating "Delete User?"	
75		Click "OK"	A second dialog box will appear stating that the user has been deleted.	
76		Click "OK"	Main screen will be refreshed with userid removed.	
77		Click on " Session " on the menu bar. Select " Logout ".	A Dialog box will appear stating "Logout of Session?"	
78		Click on "OK".	User will be logged out.	
79		In the Username box, enter a user name and password which has System Administration and ISSO privileges, then click on "Accept".	The main page will be displayed.	Local Broadsword
80		Click on " Administration " on the menu bar. Select " User and Groups " " User Maintenance ".	A list of users will appear in the window below. The specific userid will not appear.	

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
81		Click on "Session" on the menu bar. Select "Logout".	A Dialog box will appear stating "Logout of Session?"	
82		Click on "OK".	User will be logged out.	
83		In the Username box, enter the user name and password which has been deleted, then click on "Accept".	"Unable to login"	
84		In the xterm connected to the Gatekeeper LDAP server, verify user was added : <pre>./ldapsearch -b"o=U.S. Government, c=US" -h HOSTNAME -p PORT NUMBER -D"BIND DN" -w LDAP PASSWORD "cn=*USERID*" </pre> Press the enter key.	Where HOSTNAME is the hostname on which the LDAP server is running, for example "sun" PORT NUMBER is the port on which the LDAP server is running, typically port "389" BIND DN is the Distinguished Name "cn=Directory Manager" LDAP PASSWORD is the LDAP manager password assigned during installation USERID is the userid of the user to see if an entry exists "test01". Must begin and end with "*"	
85		If the userid exists, a list of attributes/values will be provided. Verify userid does not exist.	<u>Example Output</u> <pre>dn: uid=TTester,o=U.S. Government,c=US mail: test01@rl.af.mil cn: Test01 Tester uid: TTester givenname: Test01 sn: Tester facsimiletelephonenumber: 315-330-3913 telephonenumber: 315-330-4429 </pre>	
86		In the xterm connected to the Master LDAP server, verify user was added : <pre>./ldapsearch -b"o=U.S. Government, c=US" -h HOSTNAME -p PORT NUMBER -D"BIND DN" -w LDAP PASSWORD "cn=*USERID*" </pre> Press the enter key.	Where HOSTNAME is the hostname on which the LDAP server is running, for example "sun" PORT NUMBER is the port on which the LDAP server is running, typically port "389" BIND DN is the Distinguished Name "cn=Directory Manager" LDAP PASSWORD is the LDAP manager password assigned during installation USERID is the userid of the user to see if an entry exists "test01". Must	

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
			begin and end with "*"	
87		If the userid exists, a list of attributes/values will be provided. Verify userid does not exist.	Example Output <i>dn: uid=TTester,o=U.S. Government,c=US mail: test01@rl.af.mil cn: Test01 Tester uid: TTester givenname: Test01 sn: Tester facsimiletelephonenumber: 315-330-3913 telephonenumber: 315-330-4429</i>	

Section 5 Check and clear out audits.				
88		In the Username box, enter a user name and password, which has System Administration and ISSO privileges, then click on "Accept".	The user should be logged into and the main user page shown.	Keymaster
89		Click on "ISSO" on the menu bar. Select "Audit Report".	The Audit Log Maintenance page will be displayed. There will be a box for User and for Archive File Name. The Start Date and End Date will be the same. If left unchanged the dates will default to "All".	
90		Enter the userid (Admin) on the first line, then click on the "Audit Report" button.	An appropriate audit report will be created for the desired users, dates, and events. A Hypertext line will be displayed "View Audit Report".	Generate audit report
91		Click on "View Audit Report".	An audit report will be displayed in a separate window.	Audit report will show the activity for the given user. LIST WHAT IS EXPECTED
92		Close the audit window by choosing "Close" under the File menu.	Audit Logs page will be displayed.	
93		Click on the "Remove Records" button	The system will return asking if you are sure that you wish to remove the specified records.	
94		Click on the "Remove Records" button a second time.	The requested records will be deleted.	Remove audit records
95		Click on "Session" on the menu bar. Select "Logout".	A Dialog box will appear stating "Logout of Session?"	
96		Click on "OK".	User will be logged out.	
97		In the Username box, enter a user name and password, which has System Administration and ISSO privileges, then click on "Accept".	The user should be logged into and the main user page shown.	Local Broadsword
98		Click on "ISSO" on the menu bar. Select "Audit Report".	The Audit Log Maintenance page will be displayed. There will be a box for User and for Archive File Name. The Start Date and End Date will be the same. If left unchanged	

STEP	✓	OPERATOR INPUT	EXPECTED RESULTS	COMMENTS
			the dates will default to "All".	
99		Enter the userid (general) on the first line, then click on the "Audit Report" button.	An appropriate audit report will be created for the desired users, dates, and events. A Hypertext line will be displayed "View Audit Report".	Generate audit report
100		Click on "View Audit Report".	An audit report will be displayed in a separate window.	Audit report will show the activity for the given user. LIST WHAT IS EXPECTED
101		Close the audit window by choosing "Close" under the File menu.	Audit Logs page will be displayed.	
102		Click on the "Remove Records" button	The system will return asking if you are sure that you wish to remove the specified records.	
103		Click on the "Remove Records" button a second time.	The requested records will be deleted.	Remove audit records
104		Enter the userid that has System Administration and ISSO permissions on the first line, then click on the "Audit Report" button.	An appropriate audit report will be created for the desired users, dates, and events. A Hypertext line will be displayed "View Audit Report".	Generate audit report
105		Click on "View Audit Report".	An audit report will be displayed in a separate window.	Audit report will show the activity for the given user. LIST WHAT IS EXPECTED.
106		Close the audit window by choosing "Close" under the File menu.	Audit Logs page will be displayed.	
107		Click on the "Remove Records" button	The system will return asking if you are sure that you wish to remove the specified records.	
108		Click on the "Remove Records" button a second time.	The requested records will be deleted.	Remove audit records
109		Click on "Session" on the menu bar. Select "Exit".	A dialog box will appear stating "Logout of Session and Exit?"	
110		Click on "OK" button.	User will be logged out and the browser window will be closed.	Logout and exit

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Appendix B - Changing Sybase Dataserver Administrator (sa) Password

```
% su - sybase <cr>
% /bin/csh<cr>
% setenv SYBASE <Keymaster Sybase Home Dir><cr>
% setenv DSQUERY <Keymaster Sybase Server Name><cr>
% ${SYBASE}/bin/isql -Usa -P<Sybase sa Passwd>
-y${SYBASE}<cr>
1> sp_password "<current password>","<new password>"<cr>
2> go <cr>
Password correctly set.
(return status = 0)
1> quit <cr>
```

If the Sybase "sa" password is NULL (immediately after Keymaster installation), then replace the sp_password command above with the following:

```
1> sp_password null,"<new password>" <cr>
2> go <cr>
```

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Appendix C - Uninstalling the Keymaster

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There are many possible reasons for uninstalling the system. These reasons could range from the fact that something went wrong with the installation process and there is a desire to start from the beginning again, or that you wish to remove a previous version. To completely remove a version of Keymaster, you must shutdown any Keymaster processes, drop the Keymaster database and/or dataserver, and remove all Keymaster software.

To remove a version of Keymaster (either this release or a previous one), refer to the following table for information to substitute in Step 2 of the procedure below:

Field Name	Keymaster Version	
	2.x	3.x
<i>Data Device Name</i>	Bswd2KmData	Bswd3KmData
<i>Log Device Name</i>	Bswd2KmLog	Bswd3KmLog
<i>Database Name</i>	bswd2_kmdb	bswd3_kmdb
<i>Master Device Name</i>	Bswd2KmMaster.dev	Bswd3KmMaster.dev
<i>Sysprocs Device Name</i>	Bswd2KmSysProcs.dev	Bswd3KmSysProcs.dev
<i>Temp Device Name</i>	BswdTemp.dev	BswdTemp.dev

1 Stopping the System Processes

To stop all the necessary processes (must be done as user root):

```
/opt/keymasterX.0/scripts/stopservers <cr>      [Where X is the Keymaster version #]  
[Stop only Keymaster Background APs]
```

IMPORTANT NOTE: Before doing the procedures below, make sure to backup your system.

2 Dropping the Database

To drop the database, do the following as your sybase user, substituting items in {} with appropriate items from table above (**NOTE: this is only an example – your situation may differ**):

```
su - <sybase user> <cr>  
/bin/csh <cr>  
setenv SYBASE <Keym Sybase Home Dir> <cr>  
setenv DSQUERY <Keym Sybase Server Name> <cr>  
${SYBASE}/bin/isql -Usa -P<Sybase SA Passwd> -y${SYBASE}<cr>  
1> select name, phynames from sysdevices <cr>  
2> where name = "{Data Device Name}" <cr>  
3> or name = "{Log Device Name}" <cr>  
4> go <cr>  
  
name
```

phyname

Bswd2KmData

/dev/rdisk/c0t5d0s7

Bswd2KmLog

(Make note of these values)

/dev/rdisk/c0t4d0s6

(2 rows affected)

1> *drop database {Database Name} <cr>*

2> *go <cr>*

1> *sp_dropdevice {Data Device Name} <cr>*

2> *go <cr>*

Device dropped.

(return status = 0)

1> *sp_dropdevice {Log Device Name} <cr>*

2> *go <cr>*

Device dropped.

(return status = 0)

1> *shutdown with nowait <cr>*

2> *go <cr>*

Server SHUTDOWN by request.

The SQL Server is terminating this process.

00:98/06/08 15:39:15.94 server SQL Server shutdown by request.

00:98/06/08 15:39:15.98 kernel ueshutdown: exiting

DB-LIBRARY error:

Unexpected EOF from SQL Server.

If above phyname fields begin with /dev, **do not perform any remove commands**. Otherwise, remove both of the phyname paths noted above:

rm <KmData phyname> <cr>

rm <KmLog phyname> <cr>

If Keymaster is sharing another Sybase Dataserver, **do not perform any further action**. You may proceed to step 3 below. Otherwise, to remove the **Keymaster Dataserver**, perform the following:

If Dataserver Master, Sysprocs, and Temp Device Paths (see the appropriate worksheet entries for the version being removed) begin with /dev, **do not perform any remove commands**. Otherwise, remove all of these device files, substituting the appropriate paths in <> with your actual paths, and substituting items in {} with appropriate items from table above:

rm /<Worksheet Path>/{Master Device Name} <cr>

rm /<Worksheet Path>/{Sysprocs Device Name} <cr>

rm /<Worksheet Path>/{Temp Device Name} <cr>

Perform one of the following to remove the Keymaster Sybase server from the Sybase interfaces file (must be done as your Sybase user):

For SQL Server:

(Important: Only delete a dedicated Keymaster dataserver, not one that is shared with another application!!)

```
/${SYBASE}/install/sybinit <cr>
```

and enter the following input:

<u>INPUT</u>	<u>DESCRIPTION OF ACTION</u>
1_<cr>	{ Specify Release Directory }
<i>Sybase Home Dir</i>	{ From applicable version worksheet } <cr>
2 <cr>	{ Edit Interfaces File }
4 <cr>	{ Delete an existing entry }
<i>Choose # for Keym Server</i>	{ From applicable version worksheet } <cr>
y <cr>	{ Remove entry }
y <cr>	{ Write changes }
<i>CTRL-A CTRL-A</i>	{ Exit sybinit }

For Adaptive Server:

(Important: Only delete a dedicated Keymaster dataserver, not one that is shared with another application!!)

```
setenv DISPLAY <current X display>  
/${SYBASE}/bin/dsedit <cr>
```

Make sure “Sybase Interfaces File” is highlighted and click “OK”.

Select the Keymaster server entry from the available servers list and click “Delete server entry”.

Click “Yes” to confirm deletion. The Keymaster dataserver will disappear from the available servers list.

Click “Close session”

Click “Exit”

Click “Yes” to confirm exit

3 Removal of Keymaster Software

The final step is to remove the Keymaster software:

```
cd /opt/keymasterX.0 <cr>     [Where X is the Keymaster version number]  
/bin/rm -rf * <cr>
```

Appendix D- Keymaster Directory Listing

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/opt/keymaster3.0:

```
total 30
dr-xr-xr-x 15 root    bswd      512 Aug 28 16:08 .
drwxrwxr-x 15 root    sys       512 Aug 30 18:59 ..
drwxr-x--- 2 root    bswd      512 Apr 12 1999 ReleaseNotes
drwxr-x--- 2 root    bswd      512 May 16 09:16 audits
drwxr-x--- 2 root    bswd      512 Aug 23 07:53 bin
drwxr-xr-x 8 root    bswd      512 Aug 30 19:19 client
drwxr-xr-x 7 sybase  sys       512 May 6 1998 dataserver
drwxr-x--- 7 root    bswd     1024 Aug 31 16:02 etc
drwxr-xr-x 2 root    bswd      512 Sep 29 1999 install
drwxr-x--- 2 root    bswd      512 Aug 30 08:09 lib
drwxr-x--- 2 root    bswd      512 Aug 30 19:01 logs
drwxr-x--- 8 root    bswd      512 Aug 30 19:18 odbc
drwxr-x--- 3 root    bswd      512 Feb 18 1999 plugins
drwxr-x--- 2 root    bswd      512 Jan 25 2000 scripts
drwxrws--- 2 root    bswd      512 Aug 31 16:02 tmp
```

/opt/keymaster3.0/ReleaseNotes:

```
total 4
drwxr-x--- 2 root    bswd      512 Apr 12 1999 .
dr-xr-xr-x 15 root    bswd      512 Aug 28 16:08 ..
```

/opt/keymaster3.0/audits:

```
total 4
drwxr-x--- 2 root    bswd      512 May 16 09:16 .
dr-xr-xr-x 15 root    bswd      512 Aug 28 16:08 ..
```

/opt/keymaster3.0/bin:

```
total 8142
drwxr-x--- 2 root    bswd      512 Aug 23 07:53 .
dr-xr-xr-x 15 root    bswd      512 Aug 28 16:08 ..
-rwxr-x--- 1 root    bswd     140520 Jun 29 16:35 jivacron
-r-xr-x--- 1 root    bswd     2716520 Aug 29 12:30 keymaster.SVR4
-r-xr-x--- 1 root    bswd     691924 Aug 29 12:30 remote_plugin.SVR4
-r-xr-x--- 1 root    bswd     326148 Aug 29 12:30 selfsign.SVR4
-r-xr-x--- 1 root    bswd      219 Feb 18 2000 startKMserver
-r-xr-x--- 1 root    bswd     4416 Sep 21 1999 time_convert
-r-xr-x--- 1 root    bswd     46144 Aug 29 12:30 update_config.SVR4
-r-xr-x--- 1 root    bswd    115088 Aug 29 12:30 update_daemon.SVR4
-r-xr-x--- 1 root    bswd      144 Feb 1 2000 update_daemon.csh
-r-x----- 1 root    bswd     19232 Jul 7 14:05 validate
-rwx----- 1 root    bswd     37128 Aug 23 07:53 verify_user
```

/opt/keymaster3.0/client:

```
total 22
drwxr-xr-x 8 root    bswd      512 Aug 30 19:19 .
dr-xr-xr-x 15 root    bswd      512 Aug 28 16:08 ..
drwxr-x--- 5 root    bswd      512 May 17 14:35 PROTECTED
drwxr-x--- 2 root    bswd      512 Aug 30 11:42 bin
drwxr-x--- 2 root    bswd     2560 Aug 31 08:27 cgi-bin
-rw-rw---- 1 root    other      6 Aug 30 19:19 conan_pid
drwxr-x--- 7 root    bswd      512 Feb 15 2000 docs
drwxr-x--- 2 root    bswd      512 Aug 31 15:21 etc
drwxr-x--- 2 root    bswd      512 Aug 30 19:19 logs
```

/opt/keymaster3.0/client/PROTECTED:

```
total 972
drwxr-x--- 5 root    bswd      512 May 17 14:35 .
drwxr-xr-x 8 root    bswd      512 Aug 30 19:19 ..
drwxr-x--- 2 root    bswd      512 Jan 25 1999 conf
drwxr-x--- 6 root    bswd      512 Jul 28 10:29 docs
drwxr-x--- 8 root    bswd      512 Aug 31 08:26 etc
-rwxr-x--- 1 root    bswd    480940 Jun 17 1999 httpd
```

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```
lrwxrwxrwx 1 root bswd 7 Aug 30 18:59 logs -> ../logs

/opt/keymaster3.0/client/PROTECTED/conf:
total 40
drwxr-x--- 2 root bswd 512 Jan 25 1999 .
drwxr-x--- 5 root bswd 512 May 17 14:35 ..
-rw-r----- 1 root bswd 2096 Feb 1 2000 access.conf
-rw-r----- 1 root bswd 3178 Aug 30 19:18 httpd.conf
-rw-r----- 1 root bswd 4691 Apr 9 1998 mime.types
-rw-r----- 1 root bswd 5597 Feb 15 2000 srm.conf

/opt/keymaster3.0/client/PROTECTED/docs:
total 230
drwxr-x--- 6 root bswd 512 Jul 28 10:29 .
drwxr-x--- 5 root bswd 512 May 17 14:35 ..
lrwxrwxrwx 1 root bswd 21 Aug 30 18:59 About.html ->
../..../docs/About.html
-rw-r----- 1 root bswd 1117 May 17 14:35 BSWDstylesIE.css
-rw-r----- 1 root bswd 1078 May 18 10:30 BSWDstylesNS.css
drwxr-x--- 2 root bswd 512 May 1 10:26 DynAPI
-rw-r----- 1 root bswd 960 Nov 2 1999 Error_500.html
drwxr-x--- 2 root bswd 1024 Jul 28 10:29 JS
lrwxrwxrwx 1 root bswd 23 Aug 30 18:59 Support.html ->
../..../docs/Support.html
-rw-r----- 1 root bswd 48 Jul 28 10:29 blank.html
-rw-r----- 1 root bswd 91600 Sep 8 1999 gd.html
lrwxrwxrwx 1 root bswd 15 Aug 30 18:59 gifs -> ../..../docs/gifs
drwxr-x--- 2 root bswd 512 May 17 1999 help
-rw-r----- 1 root bswd 3146 Jun 16 08:27 homepage.shtml
-rwxr-x--- 1 root bswd 744 Aug 30 19:18 index.shtml
-rwxr-x--- 1 root bswd 3070 Sep 16 1999 index.shtml.template
-rw-r----- 1 root bswd 332 May 17 14:35 not_avail.html
-rw-r----- 1 root bswd 332 Jan 26 1999 not_available.html
drwxr-x--- 2 root bswd 512 Aug 31 15:21 session

/opt/keymaster3.0/client/PROTECTED/docs/DynAPI:
total 52
drwxr-x--- 2 root bswd 512 May 1 10:26 .
drwxr-x--- 6 root bswd 512 Jul 28 10:29 ..
-rw-r----- 1 root bswd 9153 Dec 3 1999 Dynlayer.js
-rw-r----- 1 root bswd 568 Nov 2 1999 Liquid.js
-rw-r----- 1 root bswd 9064 May 1 10:26 List.js
-rw-r----- 1 root bswd 4418 Feb 10 2000 MenuList.js

/opt/keymaster3.0/client/PROTECTED/docs/JS:
total 224
drwxr-x--- 2 root bswd 1024 Jul 28 10:29 .
drwxr-x--- 6 root bswd 512 Jul 28 10:29 ..
-rw-r----- 1 root bswd 10627 Jul 28 10:29 Button.js
-rw-r----- 1 root bswd 3845 Feb 10 2000 CaptionArea.js
-rw-r----- 1 root bswd 679 Nov 2 1999 ClassBar.js
-rw-r----- 1 root bswd 165 Jun 1 08:57 Constants.js
-rw-r----- 1 root bswd 17672 Feb 10 2000 DialogWdw.js
-rw-r----- 1 root bswd 85 Nov 2 1999 Dynamics.js
-rw-r----- 1 root bswd 1469 Apr 27 11:34 Generic.js
-rw-r----- 1 root bswd 4747 Jul 28 10:29 MenuBar.js
-rw-r----- 1 root bswd 1303 Apr 27 11:34 MenuTools.js
-rw-r----- 1 root bswd 660 Nov 2 1999 MouseHandler.js
-rw-r----- 1 root bswd 194 Apr 27 11:34 SearchToolsInit.js
-rw-r----- 1 root bswd 7660 Jul 28 10:29 Swapper.js
-rw-r----- 1 root bswd 3974 Jun 1 08:57 Wrapper.js
-rw-r----- 1 root bswd 2118 Apr 27 11:34 calc_distance.js
-rw-r----- 1 root bswd 7985 Jun 16 08:30 geo_styles.js
-rw-r----- 1 root bswd 3094 Jul 7 12:11 mAdministrationML.js
```

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```
-rw-r----- 1 root    bswd      822 Jul  7 12:11 mCatalogingML.js
-rw-r----- 1 root    bswd     1070 May 17 13:56 mHelpML.js
-rw-r----- 1 root    bswd      170 Nov  2 1999 mISSOML.js
-rw-r----- 1 root    bswd     1175 Jul  7 12:11 mSearchingML.js
-rw-r----- 1 root    bswd     3239 Jul 28 10:29 mSessionML.js
-rw-r----- 1 root    bswd    26397 Jul 28 10:29 maputil.js
```

/opt/keymaster3.0/client/PROTECTED/docs/help:

```
total 94
drwxr-x---  2 root    bswd      512 May 17 1999 .
drwxr-x---  6 root    bswd      512 Jul 28 10:29 ..
-rw-r----- 1 root    bswd      459 May 17 1999 About.html
-rw-r----- 1 root    bswd     3362 May 17 1999 IssoArchive.html
-rw-r----- 1 root    bswd     4747 May 17 1999 IssoMaint.html
-rw-r----- 1 root    bswd     2400 May 17 1999 KMclient.html
-rw-r----- 1 root    bswd     1508 May 17 1999 KMviewGtkprs.html
-rw-r----- 1 root    bswd     1481 May 17 1999
SysConfigGKconfigAdmin.html
-rw-r----- 1 root    bswd     6376 May 17 1999
SysStatDaemonMgmtAdmin.html
-rw-r----- 1 root    bswd     8292 May 17 1999
SysStatQueueMaintAdmin.html
-rw-r----- 1 root    bswd     2958 May 17 1999
SysStatSetDebugFlagsAdmin.html
-rw-r----- 1 root    bswd     4100 May 17 1999
SysStatSysLogInfoAdmin.html
-rw-r----- 1 root    bswd     2486 May 17 1999 UserAcc.html
-rw-r----- 1 root    bswd      991 May 17 1999 mgmt.html
```

/opt/keymaster3.0/client/PROTECTED/docs/session:

```
total 4
drwxr-x---  2 root    bswd      512 Aug 31 15:21 .
drwxr-x---  6 root    bswd      512 Jul 28 10:29 ..
```

/opt/keymaster3.0/client/PROTECTED/etc:

```
total 90
drwxr-x---  8 root    bswd      512 Aug 31 08:26 .
drwxr-x---  5 root    bswd      512 May 17 14:35 ..
-rw-r----- 1 root    bswd     7055 Sep 16 1999 attributes.cfg
-rw-r----- 1 root    bswd     7550 May 17 1999 attributes.cfg.default
drwxr-x---  9 root    bswd      512 Jan 29 1999 auto_email
drwxrws---  2 root    bswd      512 Jan 29 1999 carts
-rw---l---  1 root    bswd       24 Aug 31 15:21 counter.log
-rw-r----- 1 root    bswd      843 Jan 29 1999 crontab
-rw-r----- 1 root    bswd     4926 Sep 16 1999 formats
drwxr-x---  2 root    bswd      512 Jan 29 1999 hitlists
drwxrws---  2 root    bswd      512 Aug 31 14:14 preferences
drwxr-x---  2 root    bswd      512 Jan 29 1999 profiles
-rw-r----- 1 root    bswd      153 Jan 29 1999 registered
-rw-r----- 1 root    bswd     3990 Jan 29 1999 syb_formattable
drwxrws---  2 root    bswd      512 Jan 29 1999 templates
-rw-r----- 1 root    bswd    10100 Apr  9 1998 wusage.conf
```

/opt/keymaster3.0/client/PROTECTED/etc/auto_email:

```
total 18
drwxr-x---  9 root    bswd      512 Jan 29 1999 .
drwxr-x---  8 root    bswd      512 Aug 31 08:26 ..
drwxr-x---  2 root    bswd      512 Jan 29 1999 config
drwxr-x---  2 root    bswd      512 Jan 29 1999 log
drwxr-x---  2 root    bswd      512 Jan 29 1999 messages
drwxr-x---  2 root    bswd      512 Jan 29 1999 orig
drwxr-x---  2 root    bswd      512 Jan 29 1999 product
drwxr-x---  2 root    bswd      512 Jan 29 1999 profiles
drwxr-x---  2 root    bswd      512 Jan 29 1999 results
```

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```
/opt/keymaster3.0/client/PROTECTED/etc/auto_email/config:
total 4
drwxr-x---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  9 root    bswd      512 Jan 29  1999 ..

/opt/keymaster3.0/client/PROTECTED/etc/auto_email/log:
total 4
drwxr-x---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  9 root    bswd      512 Jan 29  1999 ..

/opt/keymaster3.0/client/PROTECTED/etc/auto_email/messages:
total 4
drwxr-x---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  9 root    bswd      512 Jan 29  1999 ..

/opt/keymaster3.0/client/PROTECTED/etc/auto_email/orig:
total 4
drwxr-x---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  9 root    bswd      512 Jan 29  1999 ..

/opt/keymaster3.0/client/PROTECTED/etc/auto_email/product:
total 4
drwxr-x---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  9 root    bswd      512 Jan 29  1999 ..

/opt/keymaster3.0/client/PROTECTED/etc/auto_email/profiles:
total 4
drwxr-x---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  9 root    bswd      512 Jan 29  1999 ..

/opt/keymaster3.0/client/PROTECTED/etc/auto_email/results:
total 4
drwxr-x---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  9 root    bswd      512 Jan 29  1999 ..

/opt/keymaster3.0/client/PROTECTED/etc/carts:
total 4
drwxrws---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  8 root    bswd      512 Aug 31  08:26 ..

/opt/keymaster3.0/client/PROTECTED/etc/hitlists:
total 4
drwxr-x---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  8 root    bswd      512 Aug 31  08:26 ..

/opt/keymaster3.0/client/PROTECTED/etc/preferences:
total 8
drwxrws---  2 root    bswd      512 Aug 31  14:14 .
drwxr-x---  8 root    bswd      512 Aug 31  08:26 ..
-rw-r-----  1 root    bswd           0 Jul 12  12:20 bswduser.pro
-rw-rw----  1 root    bswd     1129 Aug 31  14:14 remote2.pro

/opt/keymaster3.0/client/PROTECTED/etc/profiles:
total 8
drwxr-x---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  8 root    bswd      512 Aug 31  08:26 ..
-rw-r-----  1 root    bswd     1551 Apr  9  1998 default.pro

/opt/keymaster3.0/client/PROTECTED/etc/templates:
total 4
drwxrws---  2 root    bswd      512 Jan 29  1999 .
drwxr-x---  8 root    bswd      512 Aug 31  08:26 ..
```

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/opt/keymaster3.0/client/bin:

```
total 9578
drwxr-x--- 2 root bswd 512 Aug 30 11:42 .
drwxr-xr-x 8 root bswd 512 Aug 30 19:19 ..
-rwxr-x--- 1 root bswd 511632 Aug 30 11:42 BatchProc
-rwxr-x--- 1 root bswd 659220 Aug 30 11:42 MinimumInterval
-rwxr-x--- 1 root bswd 1185064 Aug 30 11:43 conan
-rwxr-x--- 1 root bswd 806008 Aug 30 11:42 decrypt
-rwxr-x--- 1 root bswd 806448 Aug 30 11:42 encrypt
-rwxr-x--- 1 root bswd 6548 Aug 30 11:42 removeQ
-rwxr-x--- 1 root bswd 6376 Aug 30 11:42 removeQroot
-rwxr-x--- 1 root bswd 838260 May 1 14:24 restart
-r-xr----- 1 root bswd 1368 Jan 25 2000 start.httpd
-r-xr-x--- 1 root bswd 344 May 16 09:51 startKMserver
lrwxrwxrwx 1 root bswd 13 Aug 30 18:59 startconan ->
startKMserver
-r-xr----- 1 root bswd 884 Jan 25 2000 stop.httpd
```

/opt/keymaster3.0/client/cgi-bin:

```
total 118128
drwxr-x--- 2 root bswd 2560 Aug 31 08:27 .
drwxr-xr-x 8 root bswd 512 Aug 30 19:19 ..
-rw-rw---- 1 root bswd 3095471 Aug 31 15:13 .view
-rwxr-x--- 1 root bswd 553132 Aug 30 11:42 AddMap
-rwxr-x--- 1 root bswd 566300 Aug 30 11:42 Backside
-rwxr-x--- 1 root bswd 510784 Aug 30 11:42 BatchJobs
-rwxr-x--- 1 root bswd 537664 Aug 30 11:42 BatchResults
-rwxr-x--- 1 root bswd 475436 Aug 30 11:43 ButtonBar
-rwxr-x--- 1 root bswd 550628 Jun 16 11:15 CatGetIDF
-rwxr-x--- 1 root bswd 550196 Jun 16 11:15 CatGetNitf
-rwxr-x--- 1 root bswd 582608 Jun 16 11:15 CatManMain
-rwxr-x--- 1 root bswd 551840 Jun 16 11:15 CatManMain2
-rwxr-x--- 1 root bswd 558160 Aug 30 11:42 CatPage
-rwxr-x--- 1 root bswd 593736 Jun 16 11:15 CatParseIDF
-rwxr-x--- 1 root bswd 594496 Jun 16 11:15 CatParseNitf
-rwxr-x--- 1 root bswd 591080 Jun 16 11:15 CatTemplateMaint
-rwxr-x--- 1 root bswd 512568 Jun 16 11:15 CatalogFrames
-rwxr-x--- 1 root bswd 519416 Aug 30 11:42 CatalogStatus
-rwxr-x--- 1 root bswd 553516 Jun 16 11:15 CatalogTabs
-rwxr-x--- 1 root bswd 524564 Aug 30 11:42 ChangePassword
-rwxr-x--- 1 root bswd 522984 Aug 30 11:42 ChgFirstPwd
-rwxr-x--- 1 root bswd 537552 Aug 30 11:42 Client
-rwxr-x--- 1 root bswd 592000 Aug 30 11:42 ConSites
-rwxr-x--- 1 root bswd 522864 Aug 30 11:42 CurrentUsers
-rwxr-x--- 1 root bswd 628184 Aug 30 11:42 DEconfig
-rwxr-x--- 1 root bswd 516400 Aug 30 11:43 DaemonStatus
-rwxr-x--- 1 root bswd 520632 Aug 30 11:42 DeliveryOptPrefs
-rwxr-x--- 1 root bswd 528880 Aug 30 11:42 DisplayDetails
-rwxr-x--- 1 root bswd 522436 Aug 30 11:42 EditCart
-rwxr-x--- 1 root bswd 765184 Aug 30 11:42 EmailNotif
-rwxr-x--- 1 root bswd 536120 Aug 30 11:42 EmailResults
-rwxr-x--- 1 root bswd 542328 Aug 30 11:42 Feedback
-rwxr-x--- 1 root bswd 625776 Aug 30 11:42 FormattedProducts
-rwxr-x--- 1 root bswd 941720 Aug 30 11:42
FormattedReportsClientMain
-rwxr-x--- 1 root bswd 480888 Aug 30 11:42 FormattedReportsTabs
-rwxr-x--- 1 root bswd 530948 Aug 30 11:43 GKconfig
-rwxr-x--- 1 root bswd 624580 Aug 30 11:42 GenPrefs
-rwxr-x--- 1 root bswd 561188 Jun 16 11:15 GetFiles
-rwxr-x--- 1 root bswd 551032 Aug 30 11:42 GroupAdmin
-rwxr-x--- 1 root bswd 598064 Aug 30 11:42 GroupMaint
-rwxr-x--- 1 root bswd 585512 Jun 16 11:15 IESSautoPop
-rwxr-x--- 1 root bswd 521200 Aug 30 11:42 InfoPrefs
-rwxr-x--- 1 root bswd 518412 Aug 30 11:42 InfoSuppPrefs
```

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-rwxr-x---	1	root	bswd	1043896	Aug	30	11:43	IssoArchive
-rwxr-x---	1	root	bswd	652368	Aug	30	11:43	IssoMaint
-rwxr-x---	1	root	bswd	488996	Aug	30	11:43	KMdoRegistration
-rwxr-x---	1	root	bswd	537552	Aug	30	11:43	KMlogin
-rwxr-x---	1	root	bswd	485812	Aug	30	11:43	KMremoteUserMaint
-rwxr-x---	1	root	bswd	484596	Aug	30	11:43	KMviewGtkprs
-rwxr-x---	1	root	bswd	550696	Aug	30	11:42	LDAPregister
-rwxr-x---	1	root	bswd	498420	Aug	30	11:43	Logout
-rwxr-x---	1	root	bswd	496376	Aug	30	11:42	MapBookmarks
-rwxr-x---	1	root	bswd	502180	Aug	30	11:42	MapCoverage
-rwxr-x---	1	root	bswd	703592	Aug	30	11:42	MsgGen
-rwxr-x---	1	root	bswd	516996	Aug	30	11:42	Navigation
-rwxr-x---	1	root	bswd	531208	Aug	30	11:42	OrderStatus
-rwxr-x---	1	root	bswd	484124	Aug	30	11:42	PrefTabs
-rwxr-x---	1	root	bswd	482348	Aug	30	11:42	Preferences
-rwxr-x---	1	root	bswd	554792	Aug	30	11:42	ProfNotif
-rwxr-x---	1	root	bswd	436144	Aug	30	11:42	ProfileLogin
-rwxr-x---	1	root	bswd	552832	Aug	30	11:42	PullProduct
-rwxr-x---	1	root	bswd	503404	Aug	30	11:43	Qmaintenance
-rwxr-x---	1	root	bswd	520428	Aug	30	11:42	QryFieldLink
-rwxr-x---	1	root	bswd	518600	Aug	30	11:42	QryFields
-rwxr-x---	1	root	bswd	757976	Aug	30	11:42	Qstats
-rwxr-x---	1	root	bswd	642756	Aug	30	11:42	RegGtkpr
-rwxr-x---	1	root	bswd	515740	Aug	30	11:42	RegInfoPrefs
-rwxr-x---	1	root	bswd	542456	Aug	30	11:42	RemotePrefs
-rwxr-x---	1	root	bswd	535036	Aug	30	11:42	Reset
-rwxr-x---	1	root	bswd	727548	Aug	30	11:42	Results
-rwxr-x---	1	root	bswd	523072	Aug	30	11:42	ResultsPrefs
-rwxr-x---	1	root	bswd	475268	Aug	30	11:42	SaveQuery
-rwxr-x---	1	root	bswd	840348	Aug	30	11:42	SavedQueries
-rwxr-x---	1	root	bswd	478768	Aug	30	11:42	SavedResultsFrames
-rwxr-x---	1	root	bswd	483372	Aug	30	11:42	SavedResultsTabs
-rwxr-x---	1	root	bswd	499376	Aug	30	11:42	SearchTools
-rwxr-x---	1	root	bswd	535296	Aug	30	11:42	SearchToolsPrefs
-rwxr-x---	1	root	bswd	529444	Aug	30	11:43	SetDebugFlags
-rwxr-x---	1	root	bswd	685528	Aug	30	11:42	ShoppingCart
-rwxr-x---	1	root	bswd	466200	Aug	30	11:42	SysConfig
-rwxr-x---	1	root	bswd	481520	Aug	30	11:42	SysConfigTabs
-rwxr-x---	1	root	bswd	503468	Aug	30	11:43	SysLogInfo
-rwxr-x---	1	root	bswd	481124	Aug	30	11:42	SysStatTabs
-rwxr-x---	1	root	bswd	478244	Aug	30	11:42	SysStatistics
-rwxr-x---	1	root	bswd	481012	Aug	30	11:42	SysStatisticsTabs
-rwxr-x---	1	root	bswd	466212	Aug	30	11:42	SysStatus
-rwxr-x---	1	root	bswd	463952	Aug	30	11:42	TargetWindow
-rwxr-x---	1	root	bswd	514352	Aug	30	11:42	TimeLineControls
-rwxr-x---	1	root	bswd	475692	Aug	30	11:42	TitleBarFrame
-rwxr-x---	1	root	bswd	492488	Aug	30	11:42	TopBar
-rwxr-x---	1	root	bswd	479048	Aug	30	11:43	TopFrame
-rwxr-x---	1	root	bswd	516496	Aug	30	11:42	TopTen
-rwxr-x---	1	root	bswd	539580	Aug	30	11:42	UserGroupMaint
-rwxr-x---	1	root	bswd	477972	Aug	30	11:42	UserGroups
-rwxr-x---	1	root	bswd	481152	Aug	30	11:42	UserGroupsTabs
-rwxr-x---	1	root	bswd	569260	Aug	30	11:43	UserMaint
-rwxr-x---	1	root	bswd	466344	Aug	30	11:42	UserMaintFrame
-rwxr-x---	1	root	bswd	503564	Aug	30	11:42	ViewConanLog
-rwxr-x---	1	root	bswd	479460	Aug	30	11:42	WebStatistics
-rwxr-x---	1	root	bswd	574100	Aug	30	11:42	counter
-rwxr-x---	1	root	bswd	507136	Aug	30	11:42	drawClientMap
-rwxr-x---	1	root	bswd	611508	Aug	30	11:42	drawElint
-rwxr-x---	1	root	bswd	582460	Aug	30	11:42	drawHits
-rwxr-x---	1	root	bswd	578164	Aug	30	11:42	drawTransGif
-rwxr-x---	1	root	bswd	36424	Aug	30	11:42	geofind
-rwxr-x---	1	root	bswd	478048	Aug	30	11:42	setDefaultMap

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/opt/keymaster3.0/client/docs:

```
total 130
drwxr-x---  7 root    bswd      512 Feb 15  2000 .
drwxr-xr-x  8 root    bswd      512 Aug 30 19:19 ..
-r--r----- 1 root    bswd      556 Aug 30 19:18 About.html
drwxr-x---  2 root    bswd      512 Jun  1 08:21 DynAPI
-r--r----- 1 root    bswd     1261 Sep 21  1999 Feedback.html
drwxr-x---  2 root    bswd     1024 Aug  4 11:14 JS
-r--r----- 1 root    bswd    34957 Sep 21  1999 Qstart2.html
-r--r----- 1 root    bswd    3423 Aug 30 19:18 Support.html
-r--r----- 1 root    bswd     799 Sep 21  1999 broad.htm
-r--r----- 1 root    bswd     828 Sep 21  1999 broad2.htm
-r--r----- 1 root    bswd     271 Sep 21  1999 client.htm
drwxr-x---  2 root    bswd    3072 Feb 29  2000 gifs
drwxr-x--- 16 root    bswd     512 Sep 21  1999 guide
drwxr-x---  2 root    bswd    4096 Sep 21  1999 help
-r--r----- 1 root    bswd     332 Sep 21  1999 not_avail.html
-r--r----- 1 root    bswd     332 Sep 21  1999 not_available.html
-r--r----- 1 root    bswd    4772 Sep 21  1999 quickstart.html
-r--r----- 1 root    bswd     128 Sep 21  1999 top.htm
```

/opt/keymaster3.0/client/docs/DynAPI:

```
total 52
drwxr-x---  2 root    bswd      512 Jun  1 08:21 .
drwxr-x---  7 root    bswd      512 Feb 15  2000 ..
-rw-r----- 1 root    bswd    9153 Dec  3  1999 Dynlayer.js
-rw-r----- 1 root    bswd     568 Nov  2  1999 Liquid.js
-rw-r----- 1 root    bswd    9064 Jun  1 08:21 List.js
-rw-r----- 1 root    bswd    4418 Feb 10  2000 MenuList.js
```

/opt/keymaster3.0/client/docs/JS:

```
total 226
drwxr-x---  2 root    bswd     1024 Aug  4 11:14 .
drwxr-x---  7 root    bswd      512 Feb 15  2000 ..
-rw-r----- 1 root    bswd   10627 Aug  1 16:36 Button.js
-rw-r----- 1 root    bswd   3845 Feb 10  2000 CaptionArea.js
-rw-r----- 1 root    bswd    679 Nov  2  1999 ClassBar.js
-rw-r----- 1 root    bswd    165 Jun  1 08:21 Constants.js
-rw-r----- 1 root    bswd   17672 Feb 10  2000 DialogWdw.js
-rw-r----- 1 root    bswd     85 Nov  2  1999 Dynamics.js
-rw-r----- 1 root    bswd   1509 Jun  1 08:21 Generic.js
-rw-r----- 1 root    bswd   4840 Aug  1 16:36 MenuBar.js
-rw-r----- 1 root    bswd   1303 Jun  1 08:21 MenuTools.js
-rw-r----- 1 root    bswd    660 Nov  2  1999 MouseHandler.js
-rw-r----- 1 root    bswd    194 Jun  1 08:21 SearchToolsInit.js
-rw-r----- 1 root    bswd   7660 Aug  1 16:36 Swapper.js
-rw-r----- 1 root    bswd   4488 Aug  1 16:36 Wrapper.js
-rw-r----- 1 root    bswd   2118 Jun  1 08:21 calc_distance.js
-rw-r----- 1 root    bswd   7985 Jun 28 09:36 geo_styles.js
-rw-r----- 1 root    bswd   3094 Jun 28 09:35 mAdministrationML.js
-rw-r----- 1 root    bswd    822 Jun 28 09:36 mCatalogingML.js
-rw-r----- 1 root    bswd   1070 Jun  1 08:21 mHelpML.js
-rw-r----- 1 root    bswd    170 Nov  2  1999 mISSOML.js
-rw-r----- 1 root    bswd   1175 Aug  1 16:36 mSearchingML.js
-rw-r----- 1 root    bswd   3298 Aug  4 10:45 mSessionML.js
-rw-r----- 1 root    bswd  26397 Aug  1 16:36 maputil.js
```

/opt/keymaster3.0/client/docs/gifs:

```
total 2214
drwxr-x---  2 root    bswd    3072 Feb 29  2000 .
drwxr-x---  7 root    bswd      512 Feb 15  2000 ..
-r--r----- 1 root    bswd   3339 Sep 21  1999 497new.gif
-r--r----- 1 root    bswd   3070 Sep 21  1999 5d.gif
-r--r----- 1 root    bswd   5119 Sep 21  1999 AFRL.gif
```

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-r--r-----	1	root	bswd	1164	Sep 21	1999	Administration.gif
-r--r-----	1	root	bswd	960	Sep 21	1999	AuditLogs.gif
-r--r-----	1	root	bswd	11809	Sep 21	1999	BAH_Logo.gif
-r--r-----	1	root	bswd	913	Sep 21	1999	BLANK1.gif
-r--r-----	1	root	bswd	905	Sep 21	1999	BLANK2.gif
-r--r-----	1	root	bswd	87023	Sep 21	1999	BSWDAnim.gif
-r--r-----	1	root	bswd	2650	Sep 21	1999	Bah_logo4.gif
-r--r-----	1	root	bswd	36681	Sep 21	1999	BannerFeed.gif
-r--r-----	1	root	bswd	2234	Sep 21	1999	BannerNew.gif
-r--r-----	1	root	bswd	37871	Sep 21	1999	BannerSup.gif
-r--r-----	1	root	bswd	3613	Feb 29	2000	CBT.gif
-r--r-----	1	root	bswd	1073	Sep 21	1999	DaemonMng.gif
-r--r-----	1	root	bswd	1070	Sep 21	1999	DaemonMngActive.gif
-r--r-----	1	root	bswd	9010	Sep 21	1999	Error.gif
-r--r-----	1	root	bswd	3644	Sep 21	1999	Feedback.gif
-r--r-----	1	root	bswd	1116	Sep 21	1999	GKconfig.gif
-r--r-----	1	root	bswd	1111	Sep 21	1999	GKconfigActive.gif
-r--r-----	1	root	bswd	1026	Sep 21	1999	ISSO.gif
-r--r-----	1	root	bswd	7205	Sep 21	1999	Information.gif
-r--r-----	1	root	bswd	1078	Sep 21	1999	InitReg.gif
-r--r-----	1	root	bswd	3768	Sep 21	1999	IntelinkCentral.gif
-r--r-----	1	root	bswd	842	Sep 21	1999	Left.gif
-r--r-----	1	root	bswd	841	Sep 21	1999	LeftActive.gif
-r--r-----	1	root	bswd	2523	Sep 21	1999	LeftHeader.gif
-r--r-----	1	root	bswd	826	Sep 21	1999	Line.gif
-r--r-----	1	root	bswd	3678	Sep 21	1999	Logout.gif
-r--r-----	1	root	bswd	1022	Sep 21	1999	ProfileNotification.gif
-r--r-----	1	root	bswd	3972	Sep 21	1999	ProjBswdHome.gif
-r--r-----	1	root	bswd	1112	Sep 21	1999	Qmaintenance.gif
-r--r-----	1	root	bswd	1107	Sep 21	1999	QmaintenanceActive.gif
-r--r-----	1	root	bswd	1057	Sep 21	1999	QryFields.gif
-r--r-----	1	root	bswd	1048	Sep 21	1999	QryFieldsActive.gif
-r--r-----	1	root	bswd	7963	Sep 21	1999	Question.gif
-r--r-----	1	root	bswd	3840	Sep 21	1999	QuickStart.gif
-r--r-----	1	root	bswd	845	Sep 21	1999	Right.gif
-r--r-----	1	root	bswd	843	Sep 21	1999	RightActive.gif
-r--r-----	1	root	bswd	1100	Sep 21	1999	SetDebugFlags.gif
-r--r-----	1	root	bswd	1088	Sep 21	1999	SetDebugFlagsActive.gif
-r--r-----	1	root	bswd	17574	Sep 21	1999	StoneWall.gif
-r--r-----	1	root	bswd	5004	Sep 21	1999	StoneWall2.gif
-r--r-----	1	root	bswd	3593	Sep 21	1999	Support.gif
-r--r-----	1	root	bswd	1052	Sep 21	1999	SysLogInfo.gif
-r--r-----	1	root	bswd	1049	Sep 21	1999	SysLogInfoActive.gif
-r--r-----	1	root	bswd	990	Sep 21	1999	SystemConfig.gif
-r--r-----	1	root	bswd	1026	Sep 21	1999	SystemStatistics.gif
-r--r-----	1	root	bswd	989	Sep 21	1999	SystemStatus.gif
-r--r-----	1	root	bswd	15348	Sep 21	1999	TitleLeft.gif
-r--r-----	1	root	bswd	93772	Sep 21	1999	TitleMiddle.gif
-r--r-----	1	root	bswd	10641	Sep 21	1999	TitleRight.gif
-r--r-----	1	root	bswd	11026	Feb 29	2000	TitleRightP.gif
-r--r-----	1	root	bswd	11005	Sep 21	1999	TitleRightR.gif
-r--r-----	1	root	bswd	3677	Sep 21	1999	UserGuide.gif
-r--r-----	1	root	bswd	1021	Sep 21	1999	UserMaint.gif
-r--r-----	1	root	bswd	1030	Sep 21	1999	ViewGtkprs.gif
-r--r-----	1	root	bswd	8663	Sep 21	1999	Warning.gif
-r--r-----	1	root	bswd	23570	Sep 21	1999	_banner.gif
-r--r-----	1	root	bswd	7116	Sep 21	1999	afrl.gif
-r--r-----	1	root	bswd	5491	Sep 21	1999	amhs.gif
-r--r-----	1	root	bswd	462	Sep 21	1999	anypro.gif
-r--r-----	1	root	bswd	948	Sep 21	1999	arrow_begin.gif
-r--r-----	1	root	bswd	953	Sep 21	1999	arrow_end.gif
-r--r-----	1	root	bswd	929	Sep 21	1999	arrow_next.gif
-r--r-----	1	root	bswd	926	Sep 21	1999	arrow_prev.gif
-r--r-----	1	root	bswd	1317	Sep 21	1999	audio.gif

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```

-r--r----- 1 root      bswd           861 Sep 21 1999 ball.gif
-r--r----- 1 root      bswd        18769 Sep 21 1999 banner.gif
-r--r----- 1 root      bswd           802 Sep 21 1999 blue.gif
-r--r----- 1 root      bswd           161 Sep 21 1999 blueball.gif
-r--r----- 1 root      bswd         6798 Sep 21 1999 buttonTest.gif
-r--r----- 1 root      bswd         1130 Sep 21 1999 cataloging.gif
-r--r----- 1 root      bswd           843 Sep 21 1999 checkmark.gif
-r--r----- 1 root      bswd           489 Sep 21 1999 config.gif
-r--r----- 1 root      bswd         1875 Sep 21 1999 demo.gif
-r--r----- 1 root      bswd         3755 Sep 21 1999 ftl.gif
-r--r----- 1 root      bswd           627 Sep 21 1999 general2.gif
-r--r----- 1 root      bswd         1826 Sep 21 1999 help.gif
-r--r----- 1 root      bswd         1176 Sep 21 1999 helpbut.gif
-r--r----- 1 root      bswd         1082 Sep 21 1999 home.gif
-r--r----- 1 root      bswd           878 Sep 21 1999 home_bkg.gif
-r--r----- 1 root      bswd         4496 Sep 21 1999 idex.gif
-r--r----- 1 root      bswd         4634 Sep 21 1999 iess.gif
-r--r----- 1 root      bswd         1194 Sep 21 1999 image.gif
-r--r----- 1 root      bswd         7271 Sep 21 1999 io.gif
-r--r----- 1 root      bswd         2797 Sep 21 1999 ipl.gif
-r--r----- 1 root      bswd         3188 Sep 21 1999 ittlogo.gif
-r--r----- 1 root      bswd         6394 Sep 21 1999 jiva.gif
-r--r----- 1 root      bswd            79 Feb 17 2000 leftarrow.gif
-rw-r----- 1 root      bswd            85 Feb 17 2000 list-img0.gif
-rw-r----- 1 root      bswd            85 Feb 17 2000 list-img1.gif
-r--r----- 1 root      bswd         1315 Feb 17 2000 login.gif
-r--r----- 1 root      bswd         2100 Feb 17 2000 logo2.gif
-rw-r----- 1 root      bswd         1059 Feb 17 2000 mAdministration_off.gif
-rw-r----- 1 root      bswd         1108 Feb 17 2000 mAdministration_on.gif
-rw-r----- 1 root      bswd           945 Feb 17 2000 mHelp_off.gif
-rw-r----- 1 root      bswd           984 Feb 17 2000 mHelp_on.gif
-rw-r----- 1 root      bswd           947 Feb 17 2000 mISSO_off.gif
-rw-r----- 1 root      bswd           986 Feb 17 2000 mISSO_on.gif
-rw-r----- 1 root      bswd           977 Feb 17 2000 mSession_off.gif
-rw-r----- 1 root      bswd         1026 Feb 17 2000 mSession_on.gif
-rw-r----- 1 root      bswd           809 Feb 17 2000 m_background.gif
-r--r----- 1 root      bswd        17624 Feb 17 2000 marble.gif
-r--r----- 1 root      bswd         4791 Feb 17 2000 midb.gif
-r--r----- 1 root      bswd         4207 Sep 21 1999 nds.gif
-r--r----- 1 root      bswd         1265 Sep 21 1999 new.gif
-r--r----- 1 root      bswd         1353 Sep 21 1999 other.gif
-r--r----- 1 root      bswd            51 Sep 21 1999 red.gif
-r--r----- 1 root      bswd            79 Sep 21 1999 rightarrow.gif
-r--r----- 1 root      bswd         3007 Sep 21 1999 rl_trans.gif
-r--r----- 1 root      bswd           806 Sep 21 1999 scrollbar.gif
-r--r----- 1 root      bswd           512 Sep 21 1999 shopping.gif
-r--r----- 1 root      bswd         7370 Sep 21 1999 sun.gif
-r--r----- 1 root      bswd         6145 Sep 21 1999
synectics_small_logo3.gif
-r--r----- 1 root      bswd           481 Sep 21 1999 system.gif
-r--r----- 1 root      bswd           156 Sep 21 1999 tetra.gif
-r--r----- 1 root      bswd         1303 Sep 21 1999 text.gif
-r--r----- 1 root      bswd        46386 Sep 21 1999 title.gif
-r--r----- 1 root      bswd       250234 Sep 21 1999 titleani.gif
-r--r----- 1 root      bswd        26461 Sep 21 1999 top.gif
-r--r----- 1 root      bswd         9675 Sep 21 1999 topbar.gif
-r--r----- 1 root      bswd            43 Sep 21 1999 trans_dot.gif
-r--r----- 1 root      bswd         1534 Sep 21 1999 video.gif
-r--r----- 1 root      bswd           584 Sep 21 1999 viewnav.gif
-r--r----- 1 root      bswd         1025 Sep 21 1999 viewnew.gif
-r--r----- 1 root      bswd        91698 Sep 21 1999 welcome.gif

```

/opt/keymaster3.0/client/docs/guide:
total 124

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```

drwxr-x--- 16 root    bswd      512 Sep 21 1999 .
drwxr-x---  7 root    bswd      512 Feb 15 2000 ..
drwxr-x---  2 root    bswd      512 Sep 21 1999 Append1
drwxr-x---  2 root    bswd      512 Sep 21 1999 Append2
drwxr-x---  2 root    bswd      512 Sep 21 1999 Append3
drwxr-x---  2 root    bswd      512 Sep 21 1999 Append4
-r--r----- 1 root    bswd    14938 Sep 21 1999 BStoc2.html
-r--r----- 1 root    bswd     470 Sep 21 1999 BSumFrame.html
-r--r----- 1 root    bswd     851 Sep 21 1999 BSwelcome.html
-r--r----- 1 root    bswd    9717 Sep 21 1999 BannerUser.gif
drwxr-x---  2 root    bswd     512 Sep 21 1999 Chap1
drwxr-x---  2 root    bswd     512 Sep 21 1999 Chap2
drwxr-x---  2 root    bswd     512 Sep 21 1999 Chap3
drwxr-x---  2 root    bswd     512 Sep 21 1999 Chap4
drwxr-x---  2 root    bswd     512 Sep 21 1999 Chap5
drwxr-x---  2 root    bswd     512 Sep 21 1999 Chap6
drwxr-x---  2 root    bswd     512 Sep 21 1999 Chap7
drwxr-x---  2 root    bswd    1024 Sep 21 1999 Chap8
drwxr-x---  6 root    bswd     512 Sep 21 1999 Chap9
drwxr-x---  2 root    bswd     512 Sep 21 1999 ISSO
-r--r----- 1 root    bswd    9112 Sep 21 1999 KnownProblems.html
-r--r----- 1 root    bswd    9717 Sep 21 1999 THEBanner.gif

```

/opt/keymaster3.0/client/docs/guide/Append1:

```

total 46
drwxr-x---  2 root    bswd     512 Sep 21 1999 .
drwxr-x--- 16 root    bswd     512 Sep 21 1999 ..
-r--r----- 1 root    bswd   20758 Sep 21 1999 Append1.html

```

/opt/keymaster3.0/client/docs/guide/Append2:

```

total 14
drwxr-x---  2 root    bswd     512 Sep 21 1999 .
drwxr-x--- 16 root    bswd     512 Sep 21 1999 ..
-r--r----- 1 root    bswd    5060 Sep 21 1999 Append2.html

```

/opt/keymaster3.0/client/docs/guide/Append3:

```

total 16
drwxr-x---  2 root    bswd     512 Sep 21 1999 .
drwxr-x--- 16 root    bswd     512 Sep 21 1999 ..
-r--r----- 1 root    bswd    5768 Sep 21 1999 Append3.html

```

/opt/keymaster3.0/client/docs/guide/Append4:

```

total 96
drwxr-x---  2 root    bswd     512 Sep 21 1999 .
drwxr-x--- 16 root    bswd     512 Sep 21 1999 ..
-r--r----- 1 root    bswd   46310 Sep 21 1999 Append4.html

```

/opt/keymaster3.0/client/docs/guide/Chap1:

```

total 470
drwxr-x---  2 root    bswd     512 Sep 21 1999 .
drwxr-x--- 16 root    bswd     512 Sep 21 1999 ..
-r--r----- 1 root    bswd   68860 Sep 21 1999 AfLogin.gif
-r--r----- 1 root    bswd    2427 Sep 21 1999 AudioPlayers.html
-r--r----- 1 root    bswd    1930 Sep 21 1999 Chap1.html
-r--r----- 1 root    bswd    3132 Sep 21 1999 DocumentViewers.html
-r--r----- 1 root    bswd    1386 Sep 21 1999 FTPServers.html
-r--r----- 1 root    bswd    5713 Sep 21 1999 HTMLBrowsers.html
-r--r----- 1 root    bswd    3237 Sep 21 1999 HelperConfig.html
-r--r----- 1 root    bswd    7380 Sep 21 1999 ImageViewers.html
-r--r----- 1 root    bswd   118821 Sep 21 1999 Login.gif
-r--r----- 1 root    bswd    3670 Sep 21 1999 MPEGPlayers.html
-r--r----- 1 root    bswd    3431 Sep 21 1999 QuicktimePlayers.html

```

/opt/keymaster3.0/client/docs/guide/Chap2:

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```
total 70
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 16 root bswd 512 Sep 21 1999 ..
-r--r----- 1 root bswd 21694 Sep 21 1999 Banner.gif
-r--r----- 1 root bswd 597 Sep 21 1999 Chap2.html
-r--r----- 1 root bswd 1290 Sep 21 1999 FuncBasedOnRole.html
-r--r----- 1 root bswd 1644 Sep 21 1999 Login.html
-r--r----- 1 root bswd 2681 Sep 21 1999 RoleIndFunc.html
-r--r----- 1 root bswd 2309 Sep 21 1999 Roles.gif
```

/opt/keymaster3.0/client/docs/guide/Chap3:

```
total 220
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 16 root bswd 512 Sep 21 1999 ..
-r--r----- 1 root bswd 996 Sep 21 1999 Chap3.html
-r--r----- 1 root bswd 4863 Sep 21 1999 DefSer.gif
-r--r----- 1 root bswd 3196 Sep 21 1999 DelOpElect.gif
-r--r----- 1 root bswd 3403 Sep 21 1999 DelOpOther.gif
-r--r----- 1 root bswd 2192 Sep 21 1999 DeliveryOptions.html
-r--r----- 1 root bswd 9477 Sep 21 1999 EmailGenPro1.gif
-r--r----- 1 root bswd 6752 Sep 21 1999 EmailGenPro2.gif
-r--r----- 1 root bswd 3511 Sep 21 1999 EmailProMain.gif
-r--r----- 1 root bswd 5562 Sep 21 1999 GenDisp.gif
-r--r----- 1 root bswd 5650 Sep 21 1999 GenReg.gif
-r--r----- 1 root bswd 3745 Sep 21 1999 General.html
-r--r----- 1 root bswd 9311 Sep 21 1999 InfoImage.gif
-r--r----- 1 root bswd 3939 Sep 21 1999 InfoSupport.html
-r--r----- 1 root bswd 2593 Sep 21 1999 ResultsPage.html
-r--r----- 1 root bswd 8500 Sep 21 1999 RevResults1.gif
-r--r----- 1 root bswd 5453 Sep 21 1999 RevResults2.gif
-r--r----- 1 root bswd 7384 Sep 21 1999 SearchTools.html
-r--r----- 1 root bswd 8959 Sep 21 1999 SerWhereWhat.gif
-r--r----- 1 root bswd 4687 Sep 21 1999 StandingQuery.html
```

/opt/keymaster3.0/client/docs/guide/Chap4:

```
total 722
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 16 root bswd 512 Sep 21 1999 ..
-r--r----- 1 root bswd 1124 Sep 21 1999 Chap4.html
-r--r----- 1 root bswd 22599 Sep 21 1999 Find.gif
-r--r----- 1 root bswd 11784 Sep 21 1999 Find.html
-r--r----- 1 root bswd 16784 Sep 21 1999 FindPlane.gif
-r--r----- 1 root bswd 44857 Sep 21 1999 FindResults.gif
-r--r----- 1 root bswd 4124 Sep 21 1999 GeoCombo.gif
-r--r----- 1 root bswd 34167 Sep 21 1999 GeoFindText1.gif
-r--r----- 1 root bswd 30351 Sep 21 1999 GeoMap.gif
-r--r----- 1 root bswd 26206 Sep 21 1999 GeoQueryText1.gif
-r--r----- 1 root bswd 16230 Sep 21 1999 GeoQueryText2.gif
-r--r----- 1 root bswd 14791 Sep 21 1999 Geographic.html
-r--r----- 1 root bswd 18863 Sep 21 1999 Query.html
-r--r----- 1 root bswd 9897 Sep 21 1999 QueryAF1.gif
-r--r----- 1 root bswd 5053 Sep 21 1999 QueryAF2.gif
-r--r----- 1 root bswd 55153 Sep 21 1999 QuerySF1Data.gif
-r--r----- 1 root bswd 42957 Sep 21 1999 QuerySF2Data.gif
-r--r----- 1 root bswd 4199 Sep 21 1999 Results.html
```

/opt/keymaster3.0/client/docs/guide/Chap5:

```
total 374
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 16 root bswd 512 Sep 21 1999 ..
-r--r----- 1 root bswd 1921 Sep 21 1999 CartCSIL.html
-r--r----- 1 root bswd 1826 Sep 21 1999 CartIDEX.html
-r--r----- 1 root bswd 1835 Sep 21 1999 CartIPL5D.html
-r--r----- 1 root bswd 1435 Sep 21 1999 Chap5.html
```

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```

-r--r----- 1 root      bswd      6000 Sep 21  1999 Edit5D.html
-r--r----- 1 root      bswd      5238 Sep 21  1999 Edit5DGR.html
-r--r----- 1 root      bswd      3711 Sep 21  1999 EditCSIL.html
-r--r----- 1 root      bswd      1278 Sep 21  1999 EditCSILGR.html
-r--r----- 1 root      bswd      6893 Sep 21  1999 EditIDEX.html
-r--r----- 1 root      bswd      4801 Sep 21  1999 EditIDEXGR.html
-r--r----- 1 root      bswd     14209 Sep 21  1999 Grp_CSIL.gif
-r--r----- 1 root      bswd     15377 Sep 21  1999 Grp_IPL.gif
-r--r----- 1 root      bswd     15898 Sep 21  1999 Ind_CSIL.gif
-r--r----- 1 root      bswd     11848 Sep 21  1999 Ind_CSIL3.gif
-r--r----- 1 root      bswd      5710 Sep 21  1999 Ind_CSIL4.gif
-r--r----- 1 root      bswd     11142 Sep 21  1999 Ind_IDEX.gif
-r--r----- 1 root      bswd     13288 Sep 21  1999 Ind_IDEX2.gif
-r--r----- 1 root      bswd     25309 Sep 21  1999 Ind_IPL.gif
-r--r----- 1 root      bswd      7036 Sep 21  1999 Ind_IPL2.gif
-r--r----- 1 root      bswd     26857 Sep 21  1999 Shopping_Cart.gif

```

/opt/keymaster3.0/client/docs/guide/Chap6:

```

total 52
drwxr-x---  2 root      bswd      512 Sep 21  1999 .
drwxr-x--- 16 root      bswd      512 Sep 21  1999 ..
-r--r----- 1 root      bswd     5535 Sep 21  1999 Chap6.html
-r--r----- 1 root      bswd    17654 Sep 21  1999 OrderStatus.gif

```

/opt/keymaster3.0/client/docs/guide/Chap7:

```

total 48
drwxr-x---  2 root      bswd      512 Sep 21  1999 .
drwxr-x--- 16 root      bswd      512 Sep 21  1999 ..
-r--r----- 1 root      bswd     3941 Sep 21  1999 Chap7.html
-r--r----- 1 root      bswd    17654 Sep 21  1999 OrderStatus.gif

```

/opt/keymaster3.0/client/docs/guide/Chap8:

```

total 310
drwxr-x---  2 root      bswd     1024 Sep 21  1999 .
drwxr-x--- 16 root      bswd      512 Sep 21  1999 ..
-r--r----- 1 root      bswd     7488 Sep 21  1999 AIDerror.gif
-r--r----- 1 root      bswd     2977 Sep 21  1999 ARCat.html
-r--r----- 1 root      bswd     1479 Sep 21  1999 AutoInputDir.html
-r--r----- 1 root      bswd    12941 Sep 21  1999 CatalogStatus.gif
-r--r----- 1 root      bswd     1958 Sep 21  1999 CatalogStatus.html
-r--r----- 1 root      bswd      981 Sep 21  1999 Chap8.html
-r--r----- 1 root      bswd     5281 Sep 21  1999 EquipCat.html
-r--r----- 1 root      bswd     3555 Sep 21  1999 EvntCat.html
-r--r----- 1 root      bswd    38098 Sep 21  1999 Fig1.gif
-r--r----- 1 root      bswd      2017 Sep 21  1999 IPLDataFile.html
-r--r----- 1 root      bswd    15038 Sep 21  1999 ImageCat.html
-r--r----- 1 root      bswd     2981 Sep 21  1999 KWCat.html
-r--r----- 1 root      bswd     8372 Sep 21  1999 MainCat.html
-r--r----- 1 root      bswd      743 Sep 21  1999 Manually.html
-r--r----- 1 root      bswd     2687 Sep 21  1999 NITFHeader.html
-r--r----- 1 root      bswd     4004 Sep 21  1999 PersonCat.html
-r--r----- 1 root      bswd     7049 Sep 21  1999 ProdCat.html
-r--r----- 1 root      bswd     3045 Sep 21  1999 ReqOrgCat.html
-r--r----- 1 root      bswd     3200 Sep 21  1999 SecCat.html
-r--r----- 1 root      bswd    17147 Sep 21  1999 Template.gif
-r--r----- 1 root      bswd     1448 Sep 21  1999 Template.html
-r--r----- 1 root      bswd     5641 Sep 21  1999 TrgtCat.html

```

/opt/keymaster3.0/client/docs/guide/Chap9:

```

total 24
drwxr-x---  6 root      bswd      512 Sep 21  1999 .
drwxr-x--- 16 root      bswd      512 Sep 21  1999 ..
-r--r----- 1 root      bswd    3454 Sep 21  1999 Chap9.html
drwxr-x---  2 root      bswd     2560 Sep 21  1999 System_Config

```

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```
drwxr-x--- 2 root bswd 512 Sep 21 1999 System_Statistics
drwxr-x--- 2 root bswd 512 Sep 21 1999 System_Status
drwxr-x--- 2 root bswd 512 Sep 21 1999 User_Maintenance
```

/opt/keymaster3.0/client/docs/guide/Chap9/System_Config:

```
total 1530
drwxr-x--- 2 root bswd 2560 Sep 21 1999 .
drwxr-x--- 6 root bswd 512 Sep 21 1999 ..
-r--r----- 1 root bswd 2834 Sep 21 1999 ConnectedSites.gif
-r--r----- 1 root bswd 18052 Sep 21 1999 QryConfigEquip.gif
-r--r----- 1 root bswd 3927 Sep 21 1999 QryConfigEquipment.html
-r--r----- 1 root bswd 13081 Sep 21 1999 QryConfigEvent.gif
-r--r----- 1 root bswd 2262 Sep 21 1999 QryConfigEvent.html
-r--r----- 1 root bswd 11561 Sep 21 1999 QryConfigImage.gif
-r--r----- 1 root bswd 13941 Sep 21 1999 QryConfigImage.html
-r--r----- 1 root bswd 12306 Sep 21 1999 QryConfigKeyword.gif
-r--r----- 1 root bswd 1399 Sep 21 1999 QryConfigKeyword.html
-r--r----- 1 root bswd 15204 Sep 21 1999 QryConfigPerson.gif
-r--r----- 1 root bswd 2451 Sep 21 1999 QryConfigPerson.html
-r--r----- 1 root bswd 9103 Sep 21 1999 QryConfigProd.gif
-r--r----- 1 root bswd 13192 Sep 21 1999 QryConfigProd.html
-r--r----- 1 root bswd 17280 Sep 21 1999 QryConfigTarget.gif
-r--r----- 1 root bswd 4384 Sep 21 1999 QryConfigTarget.html
-r--r----- 1 root bswd 26054 Sep 21 1999 SysConfigAdd5D.gif
-r--r----- 1 root bswd 3686 Sep 21 1999
SysConfigAdd5DSourceAdmin.html
-r--r----- 1 root bswd 39680 Sep 21 1999 SysConfigAddAMHS.gif
-r--r----- 1 root bswd 3534 Sep 21 1999
SysConfigAddAMHSSourceAdmin.html
-r--r----- 1 root bswd 43119 Sep 21 1999 SysConfigAddIESS.gif
-r--r----- 1 root bswd 4935 Sep 21 1999
SysConfigAddIESSSourceAdmin.html
-r--r----- 1 root bswd 14624 Sep 21 1999 SysConfigAddIPA.gif
-r--r----- 1 root bswd 4180 Sep 21 1999
SysConfigAddIPASourceAdmin.html
-r--r----- 1 root bswd 15411 Sep 21 1999 SysConfigAddIPL.gif
-r--r----- 1 root bswd 15796 Sep 21 1999 SysConfigAddIPL20.gif
-r--r----- 1 root bswd 4225 Sep 21 1999
SysConfigAddIPL20SourceAdmin.html
-r--r----- 1 root bswd 4194 Sep 21 1999
SysConfigAddIPLSourceAdmin.html
-r--r----- 1 root bswd 15518 Sep 21 1999 SysConfigAddMIDB.gif
-r--r----- 1 root bswd 3924 Sep 21 1999
SysConfigAddMIDBSourceAdmin.html
-r--r----- 1 root bswd 19335 Sep 21 1999 SysConfigAddNDS.gif
-r--r----- 1 root bswd 4183 Sep 21 1999
SysConfigAddNDSSourceAdmin.html
-r--r----- 1 root bswd 3233 Sep 21 1999
SysConfigBacksideSourcesAdmin.html
-r--r----- 1 root bswd 1378 Sep 21 1999
SysConfigConnSitesAdmin.html
-r--r----- 1 root bswd 3687 Sep 21 1999
SysConfigDEConfigAdmin.html
-r--r----- 1 root bswd 40862 Sep 21 1999 SysConfigDataElemA.gif
-r--r----- 1 root bswd 44715 Sep 21 1999 SysConfigDataElemB.gif
-r--r----- 1 root bswd 9591 Sep 21 1999 SysConfigEdit5D.gif
-r--r----- 1 root bswd 2898 Sep 21 1999
SysConfigEdit5DSourceAdmin.html
-r--r----- 1 root bswd 6103 Sep 21 1999 SysConfigEditAMHS.gif
-r--r----- 1 root bswd 2597 Sep 21 1999
SysConfigEditAMHSSourceAdmin.html
-r--r----- 1 root bswd 26031 Sep 21 1999 SysConfigEditIESS.gif
-r--r----- 1 root bswd 13502 Sep 21 1999 SysConfigEditIESS1.gif
```

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```

-r--r----- 1 root      bswd      4001 Sep 21 1999
SysConfigEditIESSSourceAdmin.html
-r--r----- 1 root      bswd      19806 Sep 21 1999 SysConfigEditIPA.gif
-r--r----- 1 root      bswd      3246 Sep 21 1999
SysConfigEditIPASourceAdmin.html
-r--r----- 1 root      bswd      20990 Sep 21 1999 SysConfigEditIPL.gif
-r--r----- 1 root      bswd      21221 Sep 21 1999 SysConfigEditIPL20.gif
-r--r----- 1 root      bswd      3289 Sep 21 1999
SysConfigEditIPL20SourceAdmin.html
-r--r----- 1 root      bswd      3246 Sep 21 1999
SysConfigEditIPLSourceAdmin.html
-r--r----- 1 root      bswd      10143 Sep 21 1999 SysConfigEditMIDB.gif
-r--r----- 1 root      bswd      2992 Sep 21 1999
SysConfigEditMIDBSourceAdmin.html
-r--r----- 1 root      bswd      14178 Sep 21 1999 SysConfigEditNDS.gif
-r--r----- 1 root      bswd      3248 Sep 21 1999
SysConfigEditNDSSourceAdmin.html
-r--r----- 1 root      bswd      20018 Sep 21 1999 SysConfigGK.gif
-r--r----- 1 root      bswd      1507 Sep 21 1999
SysConfigGKConfigAdmin.html
-r--r----- 1 root      bswd      37886 Sep 21 1999
SysConfigInstalledSources.gif
-r--r----- 1 root      bswd      12212 Sep 21 1999
SysConfigResetCounter.gif
-r--r----- 1 root      bswd      1204 Sep 21 1999
SysConfigResetCounterAdmin.html
-r--r----- 1 root      bswd      860 Sep 21 1999
SysConfigResetSysParamsAdmin.html
-r--r----- 1 root      bswd      42109 Sep 21 1999
SysConfigSetEmailNotification.gif
-r--r----- 1 root      bswd      3634 Sep 21 1999
SysConfigSetSysParamsAdmin.html
-r--r----- 1 root      bswd      5029 Sep 21 1999 installed.gif

```

/opt/keymaster3.0/client/docs/guide/Chap9/System_Statistics:

```

total 110
drwxr-x--- 2 root      bswd      512 Sep 21 1999 .
drwxr-x--- 6 root      bswd      512 Sep 21 1999 ..
-r--r----- 1 root      bswd      3373 Sep 21 1999 Stats.html
-r--r----- 1 root      bswd      50099 Sep 21 1999 SysStats.gif

```

/opt/keymaster3.0/client/docs/guide/Chap9/System_Status:

```

total 374
drwxr-x--- 2 root      bswd      512 Sep 21 1999 .
drwxr-x--- 6 root      bswd      512 Sep 21 1999 ..
-r--r----- 1 root      bswd      37871 Sep 21 1999 BannerSup.gif
-r--r----- 1 root      bswd      3254 Sep 21 1999 Support.html
-r--r----- 1 root      bswd      37437 Sep 21 1999 SysStatDaemon.gif
-r--r----- 1 root      bswd      6733 Sep 21 1999
SysStatDaemonMgmtAdmin.html
-r--r----- 1 root      bswd      8043 Sep 21 1999 SysStatDebug.gif
-r--r----- 1 root      bswd      34054 Sep 21 1999 SysStatQueue.gif
-r--r----- 1 root      bswd      8641 Sep 21 1999
SysStatQueueMaintAdmin.html
-r--r----- 1 root      bswd      3138 Sep 21 1999
SysStatSetDebugFlagsAdmin.html
-r--r----- 1 root      bswd      40511 Sep 21 1999 SysStatSysLog.gif
-r--r----- 1 root      bswd      4283 Sep 21 1999
SysStatSysLogInfoAdmin.html

```

/opt/keymaster3.0/client/docs/guide/Chap9/User_Maintenance:

```

total 18
drwxr-x--- 2 root      bswd      512 Sep 21 1999 .
drwxr-x--- 6 root      bswd      512 Sep 21 1999 ..

```

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-r--r----- 1 root bswd 6892 Sep 21 1999 UserMaintAdmin.html

/opt/keymaster3.0/client/docs/guide/ISSO:

total 200

drwxr-x--- 2 root bswd 512 Sep 21 1999 .
 drwxr-x--- 16 root bswd 512 Sep 21 1999 ..
 -r--r----- 1 root bswd 5477 Sep 21 1999 AuditLogMaintISSO.html
 -r--r----- 1 root bswd 7805 Sep 21 1999 ISSOAddArchive.gif
 -r--r----- 1 root bswd 7950 Sep 21 1999 ISSOEventRequest.gif
 -r--r----- 1 root bswd 13071 Sep 21 1999 ISSOEventRpt.gif
 -r--r----- 1 root bswd 12340 Sep 21 1999 ISSORemoveArchiveA.gif
 -r--r----- 1 root bswd 51008 Sep 21 1999 ISSORemoveArchiveB.gif

/opt/keymaster3.0/client/docs/help:

total 1484

drwxr-x--- 2 root bswd 4096 Sep 21 1999 .
 drwxr-x--- 7 root bswd 512 Feb 15 2000 ..
 -r--r----- 1 root bswd 3232 Sep 21 1999 ARCat.html
 -r--r----- 1 root bswd 5118 Sep 21 1999 AddMapData.html
 -r--r----- 1 root bswd 4747 Sep 21 1999 AuditLogMaintISSO.html
 -r--r----- 1 root bswd 2193 Sep 21 1999 BatchResults.html
 -r--r----- 1 root bswd 2320 Sep 21 1999 CartCSIL.html
 -r--r----- 1 root bswd 2215 Sep 21 1999 CartIDEX.html
 -r--r----- 1 root bswd 2222 Sep 21 1999 CartIPL5D.html
 -r--r----- 1 root bswd 2024 Sep 21 1999 CatStat.html
 -r--r----- 1 root bswd 2212 Sep 21 1999 CatalogStat.html
 -r--r----- 1 root bswd 2988 Sep 21 1999 ConfigHelp.html
 -r--r----- 1 root bswd 2211 Sep 21 1999 DateRanHelp.html
 -r--r----- 1 root bswd 4779 Sep 21 1999 DefSearchHelp.html
 -r--r----- 1 root bswd 1463 Sep 21 1999 DefViewNewProdHelp.html
 -r--r----- 1 root bswd 1987 Sep 21 1999 DisplayHelp.html
 -r--r----- 1 root bswd 6043 Sep 21 1999 Edit5D.html
 -r--r----- 1 root bswd 5351 Sep 21 1999 Edit5DGR.html
 -r--r----- 1 root bswd 3242 Sep 21 1999 EditBatch.html
 -r--r----- 1 root bswd 3899 Sep 21 1999 EditCSIL.html
 -r--r----- 1 root bswd 1615 Sep 21 1999 EditCSILGR.html
 -r--r----- 1 root bswd 2836 Sep 21 1999 EditEmail.html
 -r--r----- 1 root bswd 7228 Sep 21 1999 EditIDEX.html
 -r--r----- 1 root bswd 5262 Sep 21 1999 EditIDEXGR.html
 -r--r----- 1 root bswd 1578 Sep 21 1999 ElectDelHelp.html
 -r--r----- 1 root bswd 2549 Sep 21 1999 EmailResults.html
 -r--r----- 1 root bswd 5513 Sep 21 1999 EquipCat.html
 -r--r----- 1 root bswd 3771 Sep 21 1999 EvntCat.html
 -r--r----- 1 root bswd 11441 Sep 21 1999 FindSearchHelp.html
 -r--r----- 1 root bswd 2516 Sep 21 1999

FormattedReportsHelp.html

-r--r----- 1 root bswd 4654 Sep 21 1999 GenModProHelp.html
 -r--r----- 1 root bswd 6939 Sep 21 1999

GeographicSearchHelp.html

-r--r----- 1 root bswd 2470 Sep 21 1999 GetFileCat.html
 -r--r----- 1 root bswd 2037 Sep 21 1999 IdfCat.html
 -r--r----- 1 root bswd 15278 Sep 21 1999 ImageCat.html
 -r--r----- 1 root bswd 4313 Sep 21 1999 ImageSupHelp.html
 -r--r----- 1 root bswd 3422 Sep 21 1999 IssoArchive.html
 -r-xr-x--- 1 root bswd 4804 Sep 21 1999 IssoMaint.html
 -r--r----- 1 root bswd 3191 Sep 21 1999 KWCat.html
 -r--r----- 1 root bswd 8649 Sep 21 1999 MainCat.html
 -r--r----- 1 root bswd 2198 Sep 21 1999 MainIPLCat.html
 -r--r----- 1 root bswd 6492 Sep 21 1999 MapSearchHelp.html
 -r--r----- 1 root bswd 2060 Sep 21 1999 NitfCat.html
 -r--r----- 1 root bswd 5643 Sep 21 1999 Order.html
 -r--r----- 1 root bswd 5545 Sep 21 1999 OrderStat.html
 -r--r----- 1 root bswd 1200 Sep 21 1999 OrderedItems.html
 -r--r----- 1 root bswd 1410 Sep 21 1999 OtherDelHelp.html

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-r--r-----	1	root	bswd	4225	Sep 21	1999	PersonCat.html
-r--r-----	1	root	bswd	2328	Sep 21	1999	ProMainHelp.html
-r--r-----	1	root	bswd	3275	Sep 21	1999	ProNote.html
-r--r-----	1	root	bswd	7258	Sep 21	1999	ProdCat.html
-r--r-----	1	root	bswd	2467	Sep 21	1999	ProdDataCat.html
-r-xr-x---	1	root	bswd	1239	Sep 21	1999	QryConfigEquipment.html
-r-xr-x---	1	root	bswd	1226	Sep 21	1999	QryConfigEvent.html
-r-xr-x---	1	root	bswd	1212	Sep 21	1999	QryConfigImage.html
-r-xr-x---	1	root	bswd	1234	Sep 21	1999	QryConfigKeyword.html
-r-xr-x---	1	root	bswd	1238	Sep 21	1999	QryConfigPerson.html
-r-xr-x---	1	root	bswd	14024	Sep 21	1999	QryConfigProd.html
-r-xr-x---	1	root	bswd	1317	Sep 21	1999	QryConfigProduct.html
-r-xr-x---	1	root	bswd	1187	Sep 21	1999	QryConfigTarget.html
-r--r-----	1	root	bswd	10676	Sep 21	1999	QueryAdvancedFormHelp.html
-r--r-----	1	root	bswd	10336	Sep 21	1999	QueryShortFormHelp.html
-r--r-----	1	root	bswd	3055	Sep 21	1999	RegInfoHelp.html
-r--r-----	1	root	bswd	1908	Sep 21	1999	RemoteUserData.html
-r--r-----	1	root	bswd	1125	Sep 21	1999	ReportOpsHelp.html
-r--r-----	1	root	bswd	3295	Sep 21	1999	ReqOrgCat.html
-r--r-----	1	root	bswd	2713	Sep 21	1999	Results.html
-r--r-----	1	root	bswd	2462	Sep 21	1999	SCEditIndGrp.html
-r--r-----	1	root	bswd	3565	Sep 21	1999	SavedQueries.html
-r--r-----	1	root	bswd	4017	Sep 21	1999	SearchHelp.html
-r--r-----	1	root	bswd	3426	Sep 21	1999	SecCat.html
-r--r-----	1	root	bswd	2133	Sep 21	1999	ShoppingCartHelp.html
-r--r-----	1	root	bswd	4747	Sep 21	1999	SourceAcc.html
-r--r-----	1	root	bswd	4006	Sep 21	1999	SourceAcc.html
SysConfigAdd5DSourceAdmin.html							
-r--r-----	1	root	bswd	3705	Sep 21	1999	
SysConfigAddAMHSSourceAdmin.html							
-r--r-----	1	root	bswd	4226	Sep 21	1999	
SysConfigAddEditSourceAdmin.html							
-r--r-----	1	root	bswd	7652	Sep 21	1999	
SysConfigAddIESSSourceAdmin.html							
-r--r-----	1	root	bswd	4191	Sep 21	1999	
SysConfigAddIPASourceAdmin.html							
-r--r-----	1	root	bswd	4234	Sep 21	1999	
SysConfigAddIPL20SourceAdmin.html							
-r--r-----	1	root	bswd	4361	Sep 21	1999	
SysConfigAddIPLSourceAdmin.html							
-r--r-----	1	root	bswd	4092	Sep 21	1999	
SysConfigAddMIDBSourceAdmin.html							
-r--r-----	1	root	bswd	4350	Sep 21	1999	
SysConfigAddNDSSourceAdmin.html							
-r--r-----	1	root	bswd	3367	Sep 21	1999	
SysConfigBacksideSourcesAdmin.html							
-r--r-----	1	root	bswd	1157	Sep 21	1999	
SysConfigBacksideSourcesConfirm.html							
-r--r-----	1	root	bswd	1122	Sep 21	1999	
SysConfigBacksideSourcesError.html							
-r--r-----	1	root	bswd	1489	Sep 21	1999	
SysConfigConnSitesAdmin.html							
-r--r-----	1	root	bswd	3755	Sep 21	1999	
SysConfigDEconfigAdmin.html							
-r--r-----	1	root	bswd	1186	Sep 21	1999	
SysConfigDEconfigError.html							
-r--r-----	1	root	bswd	3043	Sep 21	1999	
SysConfigEdit5DSourceAdmin.html							
-r--r-----	1	root	bswd	2856	Sep 21	1999	
SysConfigEditAMHSSourceAdmin.html							
-r--r-----	1	root	bswd	3632	Sep 21	1999	
SysConfigEditDEAdmin.html							

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```

-r--r----- 1 root      bswd      4260 Sep 21 1999
SysConfigEditIESSSourceAdmin.html
-r--r----- 1 root      bswd      3359 Sep 21 1999
SysConfigEditIPASourceAdmin.html
-r--r----- 1 root      bswd      3399 Sep 21 1999
SysConfigEditIPL20SourceAdmin.html
-r--r----- 1 root      bswd      3359 Sep 21 1999
SysConfigEditIPLSourceAdmin.html
-r--r----- 1 root      bswd      3242 Sep 21 1999
SysConfigEditMIDBSourceAdmin.html
-r--r----- 1 root      bswd      3361 Sep 21 1999
SysConfigEditNDSSourceAdmin.html
-r--r----- 1 root      bswd      1541 Sep 21 1999
SysConfigGKconfigAdmin.html
-r--r----- 1 root      bswd      1736 Sep 21 1999
SysConfigRegGtkprAdmin.html
-r--r----- 1 root      bswd      1904 Sep 21 1999
SysConfigResetHomepgCounterAdmin.html
-r--r----- 1 root      bswd      3172 Sep 21 1999
SysConfigSetEMailParamsAdmin.html
-r--r----- 1 root      bswd      2331 Sep 21 1999
SysConfigSetIPLCatInputDirectoryAdmin.html
-r--r----- 1 root      bswd      3632 Sep 21 1999
SysConfigSetSysParamAdmin.html
-r--r----- 1 root      bswd      6472 Sep 21 1999
SysStatDaemonMgmtAdmin.html
-r--r----- 1 root      bswd      8376 Sep 21 1999
SysStatQueueMaintAdmin.html
-r--r----- 1 root      bswd      3178 Sep 21 1999
SysStatSetDebugFlagsAdmin.html
-r--r----- 1 root      bswd      4362 Sep 21 1999
SysStatSysLogInfoAdmin.html
-r--r----- 1 root      bswd      1946 Sep 21 1999
SysStatisticsBatchJobs.html
-r--r----- 1 root      bswd      1980 Sep 21 1999
SysStatisticsTopTenRequests.html
-r--r----- 1 root      bswd      1870 Sep 21 1999
SysStatisticsTopTenSources.html
-r--r----- 1 root      bswd      1846 Sep 21 1999 TemplSaveCat.html
-r--r----- 1 root      bswd      2168 Sep 21 1999 TemplateCat.html
-r--r----- 1 root      bswd      5874 Sep 21 1999 TrgtCat.html
-r--r----- 1 root      bswd      2645 Sep 21 1999 UserAcc.html
-r--r----- 1 root      bswd      6775 Sep 21 1999 UserMaint.html
-r--r----- 1 root      bswd      6775 Sep 21 1999 UserMaintAdmin.html
-r--r----- 1 root      bswd      2940 Sep 21 1999 VerifyCat.html
-r--r----- 1 root      bswd      3391 Sep 21 1999 WusageHelp.html
-r--r----- 1 root      bswd      21047 Sep 21 1999 append1.html
-r--r----- 1 root      bswd      5046 Sep 21 1999 append2.html
-r--r----- 1 root      bswd      5591 Sep 21 1999 append3.html
-r--r----- 1 root      bswd      38098 Sep 21 1999 fig1.GIF
-r--r----- 1 root      bswd      61244 Sep 21 1999 fig1.JPG
-r--r----- 1 root      bswd      44978 Sep 21 1999 fig2.GIF
-r--r----- 1 root      bswd      71990 Sep 21 1999 fig2.JPG

/opt/keymaster3.0/client/etc:
total 32
drwxr-x--- 2 root      bswd      512 Aug 31 15:21 .
drwxr-xr-x 8 root      bswd      512 Aug 30 19:19 ..
-rw-rw---- 1 root      other      0 Aug 31 15:21 current_users
-rw-r----- 1 root      bswd      0 Jul 12 12:20 default.pro
-r--r----- 1 root      bswd      2 Aug 30 19:18 http_daemon_settings
-r--r----- 1 root      bswd      484 Jun 29 16:29 jivacrontab
-r--r----- 1 root      bswd      563 Aug 30 19:18 sys_params.conf
-r--r----- 1 root      bswd      628 Jul 7 12:26 sys_params.conf.template

```

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```
-r--r----- 1 root      bswd      10117 Sep 21 1999 wusage.conf.protected
```

/opt/keymaster3.0/client/logs:

total 430

```
drwxr-x--- 2 root      bswd      512 Aug 30 19:19 .
drwxr-xr-x 8 root      bswd      512 Aug 30 19:19 ..
-rw-r----- 1 root      other    147657 Aug 31 15:21 access_P.log
-rw-rw---- 1 root      other    51038 Aug 31 15:21 conan.log
-rw-rw---- 1 root      other     860 Aug 31 14:56 error_P.log
-rw-rw---- 1 root      other     6 Aug 30 19:19 httpd_P.pid
-rw----- 1 root      other     604 Aug 31 16:00 jivacronlog
```

/opt/keymaster3.0/dataserver:

total 14

```
drwxr-xr-x 7 sybase   sys      512 May 6 1998 .
dr-xr-xr-x 15 root     bswd    512 Aug 28 16:08 ..
drwxr-x--- 2 sybase   sys      512 Sep 21 1999 index
drwxr-x--- 2 sybase   sys      512 Sep 21 1999 procs
drwxr-x--- 2 sybase   sys    1024 Aug 30 19:18 results
drwxr-x--- 2 sybase   sys      512 May 1 08:59 schema
drwxr-xr-x 2 sybase   sys      512 Aug 30 19:15 scripts
```

/opt/keymaster3.0/dataserver/index:

total 32

```
drwxr-x--- 2 sybase   sys      512 Sep 21 1999 .
drwxr-xr-x 7 sybase   sys      512 May 6 1998 ..
-r-xr-x--- 1 sybase   sys    1337 Sep 21 1999
Event_Audit_Details_idx_bswd.sql
-r-xr-x--- 1 sybase   sys    1108 Sep 21 1999 Event_Audit_idx_bswd.sql
-r-xr-x--- 1 sybase   sys    1156 Sep 21 1999
Image_Results_idx_bswd.sql
-r-xr-x--- 1 sybase   sys    1618 Sep 21 1999
RequestDestination_idx_bswd.sql
-r-xr-x--- 1 sybase   sys    1393 Sep 21 1999 Request_idx_bswd.sql
-r-xr-x--- 1 sybase   sys    1188 Sep 21 1999
Target_Results_idx_bswd.sql
-r-xr-x--- 1 sybase   sys    1099 Sep 21 1999 TopTen_idx_bswd.sql
```

/opt/keymaster3.0/dataserver/procs:

total 22

```
drwxr-x--- 2 sybase   sys      512 Sep 21 1999 .
drwxr-xr-x 7 sybase   sys      512 May 6 1998 ..
-r--r----- 1 sybase   sys    8999 Sep 21 1999
Results_Tab_i_14012_012.sql
```

/opt/keymaster3.0/dataserver/results:

total 6

```
drwxr-x--- 2 sybase   sys    1024 Aug 30 19:18 .
drwxr-xr-x 7 sybase   sys     512 May 6 1998 ..
-rw-r--r-- 1 sybase   sys      0 Aug 30 19:18
Event_Audit_Details_idx_bswd.sql.out
-rw-r--r-- 1 sybase   sys      0 Aug 30 19:18
Event_Audit_Details_tbl_bswd.sql.out
-rw-r--r-- 1 sybase   sys      0 Aug 30 19:18
Event_Audit_idx_bswd.sql.out
-rw-r--r-- 1 sybase   sys      0 Aug 30 19:18
Event_Audit_tbl_bswd.sql.out
-rw-r--r-- 1 sybase   sys      0 Aug 30 19:18
Image_Results_idx_bswd.sql.out
-rw-r--r-- 1 sybase   sys      0 Aug 30 19:18
Image_Results_tbl_bswd.sql.out
-rw-r--r-- 1 sybase   sys      0 Aug 30 19:18
RequestDestination_idx_bswd.sql.out
```

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```

-rw-r--r-- 1 sybase sys          0 Aug 30 19:18
RequestDestination_tbl_bswd.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18 Request_idx_bswd.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18 Request_tbl_bswd.sql.out
-rw-r--r-- 1 sybase sys         41 Aug 30 19:18
Results_Tab_i_14012_012.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18
Results_Tab_tbl_bswd.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18
TEvent_Audit_Details_tbl_bswd.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18
TEvent_Audit_tbl_bswd.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18
Target_Results_idx_bswd.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18
Target_Results_tbl_bswd.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18 TopTen_idx_bswd.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18 Top_Ten_tbl_bswd.sql.out
-rw-r--r-- 1 sybase sys          0 Aug 30 19:18
User_Access_tbl_bswd.sql.out

```

/opt/keymaster3.0/dataserver/schema:

```

total 52
drwxr-x--- 2 sybase sys          512 May  1 08:59 .
drwxr-xr-x 7 sybase sys          512 May  6 1998 ..
-r-xr-x--- 1 sybase sys        1315 Sep 21 1999
Event_Audit_Details_tbl_bswd.sql
-r-xr-x--- 1 sybase sys        1388 Sep 21 1999 Event_Audit_tbl_bswd.sql
-r-xr-x--- 1 sybase sys        1244 Sep 21 1999
Image_Results_tbl_bswd.sql
-r-xr-x--- 1 sybase sys        2069 Sep 21 1999
RequestDestination_tbl_bswd.sql
-r-xr-x--- 1 sybase sys        2749 Sep 21 1999 Request_tbl_bswd.sql
-r-xr-x--- 1 sybase sys        1317 Sep 21 1999 Results_Tab_tbl_bswd.sql
-r-xr-x--- 1 sybase sys        1336 Sep 21 1999
TEvent_Audit_Details_tbl_bswd.sql
-r-xr-x--- 1 sybase sys        1413 Sep 21 1999
TEvent_Audit_tbl_bswd.sql
-r-xr-x--- 1 sybase sys        1319 Sep 21 1999
Target_Results_tbl_bswd.sql
-r-xr-x--- 1 sybase sys        1324 Sep 21 1999 Top_Ten_tbl_bswd.sql
-rwxr-x--- 1 sybase sys        1352 May  1 08:59 User_Access_tbl_bswd.sql

```

/opt/keymaster3.0/dataserver/scripts:

```

total 44
drwxr-xr-x 2 sybase sys          512 Aug 30 19:15 .
drwxr-xr-x 7 sybase sys          512 May  6 1998 ..
-r-xr----- 1 sybase sys        1789 Feb  1 2000 Build_Bswd_DB.sh
-rw-r--r-- 1 sybase sys        2200 Aug 30 19:15 bswd_bu_resource_file
-r--r----- 1 sybase sys        2206 Sep 21 1999
bswd_bu_resource_file.template
-r--r----- 1 sybase sys        4447 Aug 30 19:04 bswd_resource_file
-r--r----- 1 sybase sys        4460 Sep 21 1999
bswd_resource_file.template
-rw-r--r-- 1 sybase sys          427 Aug 30 19:15
bswd_resource_file_sqlloc
-r--r----- 1 sybase sys          424 Sep 21 1999
bswd_resource_file_sqlloc.template

```

/opt/keymaster3.0/etc:

```

total 3204
drwxr-x--- 7 root bswd        1024 Aug 31 16:02 .
dr-xr-xr-x 15 root bswd          512 Aug 28 16:08 ..
drwxr-x--- 2 root bswd          512 Sep 21 1999 SSLeay

```

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```

drwxr-x---  2 root    bswd      512 May 11 13:16 backup
-rw-r--r--  1 root    bswd     1073 Aug 30 19:04 bswd_settings
drwxr-x---  4 root    bswd      512 Feb 18 1999 certs
-r--r----- 1 root    bswd     1090 Sep 21 1999 interfaces
-r--r----- 1 root    bswd      530 Aug 30 19:18 ipc_services.dat
-rw-r----- 1 root    bswd     1663 Jul 11 09:40
keymaster.odbc.ini.template
-rw-r----- 1 root    bswd       63 Jul 11 09:40
keymaster.private.conf.template
-rw-r----- 1 root    bswd       46 Jul 11 09:40
keymaster.remote.gkpr.conf.template
-rw-r----- 1 root    bswd    3747 Jul 11 09:40
keymaster.server_env_vars.template
-rw-r--r--  1 root    bswd     4662 Aug 30 19:18 local.gkpr.conf
-rw-r----- 1 root    bswd     4540 Jul 11 09:40 local.gkpr.conf.template
-r--r----- 1 root    bswd       78 Feb  1 2000 log.conf
-r--r----- 1 root    bswd     1650 Aug 30 19:18 odbc.ini
-rw-r----- 1 root    bswd     1663 Jul  5 13:34 odbc.ini.template
-rw-----  1 root    other    4574 Aug 31 16:02 private.conf
-rw-r----- 1 root    bswd       63 Jul  5 13:34 private.conf.template
drwxr-x---  2 root    bswd      512 Aug 31 15:16 registration
-rw-rw----  1 root    other  1578762 Aug 31 16:02 remote.gkpr.conf
-rw-r----- 1 root    bswd       46 Jul  5 13:34
remote.gkpr.conf.template
-rw-r----- 1 root    bswd     3720 Aug 30 19:18 server_env_vars
-rw-r----- 1 root    bswd     3761 Aug  9 12:18 server_env_vars.template
drwxr-x---  2 root    bswd      512 Aug 31 16:00 update

```

/opt/keymaster3.0/etc/SSLeay:

```

total 22
drwxr-x---  2 root    bswd      512 Sep 21 1999 .
drwxr-x---  7 root    bswd     1024 Aug 31 16:02 ..
-r--r----- 1 root    bswd     3490 Sep 21 1999 COPYRIGHT
-r--r----- 1 root    bswd       3 Aug 31 15:16 ca.srl
-r--r----- 1 root    bswd     3160 Sep 21 1999 sslkey.cnf

```

/opt/keymaster3.0/etc/backup:

```

total 4
drwxr-x---  2 root    bswd      512 May 11 13:16 .
drwxr-x---  7 root    bswd     1024 Aug 31 16:02 ..

```

/opt/keymaster3.0/etc/certs:

```

total 8
drwxr-x---  4 root    bswd      512 Feb 18 1999 .
drwxr-x---  7 root    bswd     1024 Aug 31 16:02 ..
drwxr-x---  2 root    bswd      512 Aug 30 19:18 cacerts
drwxr-x---  2 root    bswd      512 Aug 30 19:18 ourcerts

```

/opt/keymaster3.0/etc/certs/cacerts:

```

total 6
drwxr-x---  2 root    bswd      512 Aug 30 19:18 .
drwxr-x---  4 root    bswd      512 Feb 18 1999 ..
-rw-----  1 root    bswd     786 Aug 30 19:18 7278f56b:967694468

```

/opt/keymaster3.0/etc/certs/ourcerts:

```

total 6
drwxr-x---  2 root    bswd      512 Aug 30 19:18 .
drwxr-x---  4 root    bswd      512 Feb 18 1999 ..
-rw-----  1 root    bswd     786 Aug 30 19:18 from.7278f56b:967694468

```

/opt/keymaster3.0/etc/registration:

```

total 16
drwxr-x---  2 root    bswd      512 Aug 31 15:16 .
drwxr-x---  7 root    bswd     1024 Aug 31 16:02 ..

```

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```
-rw----- 1 root    bswd      573 Aug 30 19:18 our_publickey
-rw----- 1 root    other      71 Aug 31 08:37
registered_from.80a3840c:967655788
-rw----- 1 root    other      71 Aug 31 08:32
registered_from.80aac2a7:967692303
-rw----- 1 root    other      69 Aug 31 14:32
registered_from.80aac317:967761059
-rw----- 1 root    other      70 Aug 31 15:16
registered_from.80ad40ef:967495715
-rw----- 1 root    bswd      64 Aug 30 19:18
registered_to.7278f56b:967694468
```

/opt/keymaster3.0/etc/update:

```
total 3130
drwxr-x--- 2 root    bswd      512 Aug 31 16:00 .
drwxr-x--- 7 root    bswd     1024 Aug 31 16:02 ..
-rw-rw---- 1 root    other      76 Aug 31 15:18 gkpr_update.log
-rw-rw---- 1 root    other     4662 Aug 31 15:18 local.gkpr.conf
-rw----- 1 root    other     4462 Aug 31 15:18 private.conf
-rw-rw---- 1 root    other    1574620 Aug 31 15:18 remote.gkpr.conf
```

/opt/keymaster3.0/install:

```
total 3406
drwxr-xr-x 2 root    bswd      512 Sep 29 1999 .
dr-xr-xr-x 15 root   bswd      512 Aug 28 16:08 ..
-r-xr-r-- 1 root    bswd     4661 Jun 29 09:40 install.sh
-r--r--r-- 1 root    bswd    1725952 Aug 25 15:12 keyminst.tar
```

/opt/keymaster3.0/lib:

```
total 31804
drwxr-x--- 2 root    bswd      512 Aug 30 08:09 .
dr-xr-xr-x 15 root   bswd      512 Aug 28 16:08 ..
-rwxr-x--- 1 root    bswd     612272 Aug 29 12:30 libbswd.so
-rwxr-x--- 1 root    bswd     111856 Aug 29 12:30 libbswdadminapi.so
-rwxr-x--- 1 root    bswd    1902176 Aug 30 08:09 libbswdapi.so
-rwxr-x--- 1 root    bswd     40704 Aug 29 12:30 libbswdaudits.so
-rwxr-x--- 1 root    bswd    214464 Aug 29 12:30 libbswdauth.cse.so
-rwxr-x--- 1 root    bswd    1022552 Aug 29 12:30 libbswdauth.ldap.so
lrwxrwxrwx 1 root    bswd      18 Aug 30 19:00 libbswdauth.so ->
libbswdauth.cse.so
-rwxr-x--- 1 root    bswd    3306836 Aug 30 08:09 libbswdcat.so
-rwxr-x--- 1 root    bswd    1004728 Aug 30 08:09 libbswdcgi.so
-rwxr-x--- 1 root    bswd    286152 Aug 29 12:30 libbswdclientapi.so
-rwxr-x--- 1 root    bswd    728400 Aug 30 11:43 libbswdkm.so
-rwxr-x--- 1 root    bswd    1302524 Aug 30 08:09 libbswdresult.so
-rwxr-x--- 1 root    bswd    829984 Aug 30 08:09 libbswdsrch.so
-rwxr-x--- 1 root    bswd    1323832 Aug 30 11:43 libbswdusermaint.so
-rwxr-x--- 1 root    bswd    3188392 Aug 30 08:09 libbswdutil.so
-rwxr-x--- 1 root    bswd    167372 Aug 29 12:30 libbswdwww.so
-rwxr-x--- 1 root    bswd     75992 Aug 29 12:30 libsockSVR4.so
```

/opt/keymaster3.0/logs:

```
total 22
drwxr-x--- 2 root    bswd      512 Aug 30 19:01 .
dr-xr-xr-x 15 root   bswd      512 Aug 28 16:08 ..
-rw-r--r-- 1 root    bswd     7316 Aug 31 13:51 install.log
-rw-r--r-- 1 root    bswd      942 Aug 30 19:18 install_debug.log
```

/opt/keymaster3.0/odbc:

```
total 20
drwxr-x--- 8 root    bswd      512 Aug 30 19:18 .
dr-xr-xr-x 15 root   bswd      512 Aug 28 16:08 ..
-r--r----- 1 root    bswd      148 Sep 21 1999 README
drwxr-x--- 12 root   bswd      512 Apr 1 1998 charsets
```

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```
drwxr-x--- 2 root bswd 512 Sep 21 1999 config
lrwxrwxrwx 1 root other 22 Aug 30 19:18 interfaces ->
/opt/SYBASE/interfaces
drwxr-x--- 2 root bswd 1024 Sep 21 1999 lib
drwxr-x--- 4 root bswd 512 Sep 21 1999 locales
drwxr-x--- 2 root bswd 512 Sep 21 1999 setupxbms
drwxr-x--- 2 root bswd 512 Sep 21 1999 xappdefaults
```

/opt/keymaster3.0/odbc/charsets:
total 24

```
drwxr-x--- 12 root bswd 512 Apr 1 1998 .
drwxr-x--- 8 root bswd 512 Aug 30 19:18 ..
drwxr-x--- 2 root bswd 512 Sep 21 1999 ascii_8
drwxr-x--- 2 root bswd 512 Sep 21 1999 cp437
drwxr-x--- 2 root bswd 512 Sep 21 1999 cp850
drwxr-x--- 2 root bswd 512 Sep 21 1999 deckanji
drwxr-x--- 2 root bswd 512 Sep 21 1999 eucjis
drwxr-x--- 2 root bswd 1024 Sep 21 1999 iso_1
drwxr-x--- 2 root bswd 512 Sep 21 1999 mac
drwxr-x--- 2 root bswd 512 Sep 21 1999 roman8
drwxr-x--- 2 root bswd 512 Sep 21 1999 sjis
drwxr-x--- 2 root bswd 512 Sep 21 1999 utf8
```

/opt/keymaster3.0/odbc/charsets/ascii_8:
total 16

```
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 12 root bswd 512 Apr 1 1998 ..
-r--r----- 1 root bswd 696 Sep 21 1999 binary.srt
-r--r----- 1 root bswd 4617 Sep 21 1999 charset.loc
```

/opt/keymaster3.0/odbc/charsets/cp437:
total 154

```
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 12 root bswd 512 Apr 1 1998 ..
-r--r----- 1 root bswd 607 Sep 21 1999 binary.srt
-r--r----- 1 root bswd 4590 Sep 21 1999 charset.loc
-r--r----- 1 root bswd 255 Sep 21 1999 cp437.cfg
-r--r----- 1 root bswd 8221 Sep 21 1999 dictionary.srt
-r--r----- 1 root bswd 8381 Sep 21 1999 espdict.srt
-r--r----- 1 root bswd 8394 Sep 21 1999 espnoac.srt
-r--r----- 1 root bswd 8319 Sep 21 1999 espnocs.srt
-r--r----- 1 root bswd 8239 Sep 21 1999 noaccents.srt
-r--r----- 1 root bswd 8734 Sep 21 1999 nocase.srt
-r--r----- 1 root bswd 8797 Sep 21 1999 nocasepref.srt
-r--r----- 1 root bswd 4988 Sep 21 1999 utf8.ctb
```

/opt/keymaster3.0/odbc/charsets/cp850:
total 250

```
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 12 root bswd 512 Apr 1 1998 ..
-r--r----- 1 root bswd 8642 Sep 21 1999 altdict.srt
-r--r----- 1 root bswd 8274 Sep 21 1999 altnoacc.srt
-r--r----- 1 root bswd 9049 Sep 21 1999 altnocsp.srt
-r--r----- 1 root bswd 607 Sep 21 1999 binary.srt
-r--r----- 1 root bswd 4588 Sep 21 1999 charset.loc
-r--r----- 1 root bswd 255 Sep 21 1999 cp850.cfg
-r--r----- 1 root bswd 8222 Sep 21 1999 dictionary.srt
-r--r----- 1 root bswd 8161 Sep 21 1999 espdict.srt
-r--r----- 1 root bswd 8222 Sep 21 1999 espnoac.srt
-r--r----- 1 root bswd 8139 Sep 21 1999 espnocs.srt
-r--r----- 1 root bswd 8273 Sep 21 1999 noaccents.srt
-r--r----- 1 root bswd 8761 Sep 21 1999 nocase.srt
-r--r----- 1 root bswd 5807 Sep 21 1999 nocase34.srt
-r--r----- 1 root bswd 8838 Sep 21 1999 nocasepref.srt
```

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```
-r--r----- 1 root      bswd      8036 Sep 21 1999 scandict.srt
-r--r----- 1 root      bswd      8948 Sep 21 1999 scannocp.srt
-r--r----- 1 root      bswd      4988 Sep 21 1999 utf8.ctb
```

/opt/keymaster3.0/odbc/charsets/deckanji:

total 446

```
drwxr-x--- 2 root      bswd      512 Sep 21 1999 .
drwxr-x--- 12 root     bswd      512 Apr  1 1998 ..
-r--r----- 1 root      bswd      661 Sep 21 1999 binary.srt
-r--r----- 1 root      bswd     18537 Sep 21 1999 charset.loc
-r--r----- 1 root      bswd      187 Sep 21 1999 deckanji.cfg
-r--r----- 1 root      bswd    188442 Sep 21 1999 utf8.ctb
```

/opt/keymaster3.0/odbc/charsets/eucjis:

total 496

```
drwxr-x--- 2 root      bswd      512 Sep 21 1999 .
drwxr-x--- 12 root     bswd      512 Apr  1 1998 ..
-r--r----- 1 root      bswd      657 Sep 21 1999 binary.srt
-r--r----- 1 root      bswd     21068 Sep 21 1999 charset.loc
-r--r----- 1 root      bswd      186 Sep 21 1999 eucjis.cfg
-r--r----- 1 root      bswd    190157 Sep 21 1999 utf8.ctb
-r--r----- 1 root      bswd     12215 Sep 21 1999 zenkaku.loc
-r--r----- 1 root      bswd     10900 Sep 21 1999 zenkaku.xlt
```

/opt/keymaster3.0/odbc/charsets/iso_1:

total 442

```
drwxr-x--- 2 root      bswd     1024 Sep 21 1999 .
drwxr-x--- 12 root     bswd      512 Apr  1 1998 ..
-r--r----- 1 root      bswd     8088 Sep 21 1999 avt.loc
-r--r----- 1 root      bswd     6412 Sep 21 1999 avt.xlt
-r--r----- 1 root      bswd      636 Sep 21 1999 binary.srt
-r--r----- 1 root      bswd     4611 Sep 21 1999 charset.loc
-r--r----- 1 root      bswd     8368 Sep 21 1999 cit101e.loc
-r--r----- 1 root      bswd     6412 Sep 21 1999 cit101e.xlt
-r--r----- 1 root      bswd     8088 Sep 21 1999 cit101xl.loc
-r--r----- 1 root      bswd     6412 Sep 21 1999 cit101xl.xlt
-r--r----- 1 root      bswd     8088 Sep 21 1999 cit50.loc
-r--r----- 1 root      bswd     6412 Sep 21 1999 cit50.xlt
-r--r----- 1 root      bswd     8449 Sep 21 1999 dictionary.srt
-r--r----- 1 root      bswd     8421 Sep 21 1999 espdict.srt
-r--r----- 1 root      bswd     8434 Sep 21 1999 espnoac.srt
-r--r----- 1 root      bswd     8336 Sep 21 1999 espnocs.srt
-r--r----- 1 root      bswd     8886 Sep 21 1999 hds200_7.loc
-r--r----- 1 root      bswd     6412 Sep 21 1999 hds200_7.xlt
-r--r----- 1 root      bswd      255 Sep 21 1999 iso_1.cfg
-r--r----- 1 root      bswd     8487 Sep 21 1999 noaccents.srt
-r--r----- 1 root      bswd     8949 Sep 21 1999 nocase.srt
-r--r----- 1 root      bswd     9047 Sep 21 1999 nocasepref.srt
-r--r----- 1 root      bswd     8088 Sep 21 1999 sun.loc
-r--r----- 1 root      bswd     6412 Sep 21 1999 sun.xlt
-r--r----- 1 root      bswd     4976 Sep 21 1999 utf8.ctb
-r--r----- 1 root      bswd     8088 Sep 21 1999 vt100.loc
-r--r----- 1 root      bswd     6412 Sep 21 1999 vt100.xlt
-r--r----- 1 root      bswd     5488 Sep 21 1999 vt200.loc
-r--r----- 1 root      bswd     4708 Sep 21 1999 vt200.xlt
-r--r----- 1 root      bswd     5453 Sep 21 1999 vt330.loc
-r--r----- 1 root      bswd     4732 Sep 21 1999 vt330.xlt
-r--r----- 1 root      bswd     8088 Sep 21 1999 wyse50.loc
-r--r----- 1 root      bswd     6412 Sep 21 1999 wyse50.xlt
```

/opt/keymaster3.0/odbc/charsets/mac:

total 28

```
drwxr-x--- 2 root      bswd      512 Sep 21 1999 .
drwxr-x--- 12 root     bswd      512 Apr  1 1998 ..
```

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```
-r--r----- 1 root      bswd          623 Sep 21 1999 binary.srt
-r--r----- 1 root      bswd         4604 Sep 21 1999 charset.loc
-r--r----- 1 root      bswd          255 Sep 21 1999 mac.cfg
-r--r----- 1 root      bswd         4927 Sep 21 1999 utf8.ctb
```

/opt/keymaster3.0/odbc/charsets/roman8:

```
total 158
drwxr-x---  2 root      bswd          512 Sep 21 1999 .
drwxr-x--- 12 root      bswd          512 Apr  1 1998 ..
-r--r----- 1 root      bswd          632 Sep 21 1999 binary.srt
-r--r----- 1 root      bswd         4609 Sep 21 1999 charset.loc
-r--r----- 1 root      bswd         8830 Sep 21 1999 dictionary.srt
-r--r----- 1 root      bswd         8759 Sep 21 1999 espdict.srt
-r--r----- 1 root      bswd         8872 Sep 21 1999 espnoac.srt
-r--r----- 1 root      bswd         8754 Sep 21 1999 espnocs.srt
-r--r----- 1 root      bswd         8913 Sep 21 1999 noaccents.srt
-r--r----- 1 root      bswd         9398 Sep 21 1999 nocase.srt
-r--r----- 1 root      bswd         9495 Sep 21 1999 nocasepref.srt
-r--r----- 1 root      bswd          255 Sep 21 1999 roman8.cfg
-r--r----- 1 root      bswd         4973 Sep 21 1999 utf8.ctb
```

/opt/keymaster3.0/odbc/charsets/sjis:

```
total 454
drwxr-x---  2 root      bswd          512 Sep 21 1999 .
drwxr-x--- 12 root      bswd          512 Apr  1 1998 ..
-r--r----- 1 root      bswd          655 Sep 21 1999 binary.srt
-r--r----- 1 root      bswd        18551 Sep 21 1999 charset.loc
-r--r----- 1 root      bswd         187 Sep 21 1999 sjis.cfg
-r--r----- 1 root      bswd       186104 Sep 21 1999 utf8.ctb
-r--r----- 1 root      bswd         4987 Sep 21 1999 zenkaku.loc
-r--r----- 1 root      bswd         6292 Sep 21 1999 zenkaku.xlt
```

/opt/keymaster3.0/odbc/charsets/utf8:

```
total 1996
drwxr-x---  2 root      bswd          512 Sep 21 1999 .
drwxr-x--- 12 root      bswd          512 Apr  1 1998 ..
-r--r----- 1 root      bswd          662 Sep 21 1999 binary.srt
-r--r----- 1 root      bswd         6546 Sep 21 1999 charset.loc
-r--r----- 1 root      bswd        13286 Sep 21 1999 cp437.ctb
-r--r----- 1 root      bswd        11961 Sep 21 1999 cp850.ctb
-r--r----- 1 root      bswd       302620 Sep 21 1999 deckanji.ctb
-r--r----- 1 root      bswd       304334 Sep 21 1999 eucjis.ctb
-r--r----- 1 root      bswd         9920 Sep 21 1999 iso_1.ctb
-r--r----- 1 root      bswd        12503 Sep 21 1999 mac.ctb
-r--r----- 1 root      bswd        11198 Sep 21 1999 roman8.ctb
-r--r----- 1 root      bswd       304332 Sep 21 1999 sjis.ctb
-r--r----- 1 root      bswd          366 Sep 21 1999 utf8.cfg
```

/opt/keymaster3.0/odbc/config:

```
total 194
drwxr-x---  2 root      bswd          512 Sep 21 1999 .
drwxr-x---  8 root      bswd          512 Aug 30 19:18 ..
-r--r----- 1 root      bswd          518 Sep 21 1999 libtcl.cfg
-r--r----- 1 root      bswd       89891 Sep 21 1999 mnemonic.dat
-r--r----- 1 root      bswd        3866 Sep 21 1999 objectid.dat
-r--r----- 1 root      bswd        1529 Sep 21 1999 sample.cfg
```

/opt/keymaster3.0/odbc/lib:

```
total 21300
drwxr-x---  2 root      bswd        1024 Sep 21 1999 .
drwxr-x---  8 root      bswd          512 Aug 30 19:18 ..
-r--r----- 1 root      bswd          896 Sep 21 1999 IVODBC.LIC
-r--r----- 1 root      bswd          896 Sep 21 1999 SYODBC.LIC
-r--xr-x--- 1 root      bswd       14219 Sep 21 1999 SYbas12.mo
```

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```

-r-xr-x--- 1 root bswd 10823 Sep 21 1999 SYflt12.mo
-r-xr-x--- 1 root bswd 173272 Sep 21 1999 SYsyb1112.so
-r-xr-x--- 1 root bswd 2785 Sep 21 1999 SYsyb12.mo
-r-xr-x--- 1 root bswd 173200 Sep 21 1999 SYsyb12.so
-r-xr-x--- 1 root bswd 4378 Sep 21 1999 SYutl12.mo
-r-xr-x--- 1 root bswd 224216 Sep 21 1999 ivor713.so
-r-xr-x--- 1 root bswd 384236 Sep 21 1999 libSYbas12.so
-r-xr-x--- 1 root bswd 518416 Sep 21 1999 libSYflt12.so
-r-xr-x--- 1 root bswd 23128 Sep 21 1999 libSYmback.so
-r-xr-x--- 1 root bswd 10160 Sep 21 1999 libSYmfront.so
-r-xr-x--- 1 root bswd 350544 Sep 21 1999 libSYutl12.so
-r-xr-x--- 1 root bswd 618356 Sep 21 1999 libcomm.so
-r-xr-x--- 1 root bswd 640156 Sep 21 1999 libcomm_r.so
-r-xr-x--- 1 root bswd 96972 Sep 21 1999 libcs.so
-r-xr-x--- 1 root bswd 103032 Sep 21 1999 libcs_r.so
-r-xr-x--- 1 root bswd 782272 Sep 21 1999 libct.so
-r-xr-x--- 1 root bswd 807552 Sep 21 1999 libct_r.so
-r-xr-x--- 1 root bswd 37768 Sep 21 1999 libddce.so
-r-xr-x--- 1 root bswd 62368 Sep 21 1999 libintl.so
-r-xr-x--- 1 root bswd 65032 Sep 21 1999 libintl_r.so
-r-xr-x--- 1 root bswd 1415812 Sep 21 1999 libodbc.so
-r-xr-x--- 1 root bswd 9448 Sep 21 1999 libodbcinst.so
-r-xr-x--- 1 root bswd 7836 Sep 21 1999 liboraclemap.so
-r-xr-x--- 1 root bswd 15312 Sep 21 1999 libsdce.so
-r-xr-x--- 1 root bswd 21004 Sep 21 1999 libskrb.so
-r-xr-x--- 1 root bswd 1476596 Sep 21 1999 libsybdb.so
-r-xr-x--- 1 root bswd 398192 Sep 21 1999 libtcl.so
-r-xr-x--- 1 root bswd 406916 Sep 21 1999 libtcl_r.so
-r-xr-x--- 1 root bswd 25084 Sep 21 1999 libtli.so
-r-xr-x--- 1 root bswd 20216 Sep 21 1999 libtli_r.so
-r-xr-x--- 1 root bswd 109180 Sep 21 1999 odbccurs.so
-r-xr-x--- 1 root bswd 182260 Sep 21 1999 odbctrac.so
-r-xr-x--- 1 root bswd 1415812 Sep 21 1999 saodbc.so.1
-r-xr-x--- 1 root bswd 65476 Sep 21 1999 vscnctdlg.so.1

```

/opt/keymaster3.0/odbc/locales:

```

total 26
drwxr-x--- 4 root bswd 512 Sep 21 1999 .
drwxr-x--- 8 root bswd 512 Aug 30 19:18 ..
-r--r----- 1 root bswd 8210 Mar 24 10:55 locales.dat
drwxr-x--- 3 root bswd 512 Apr 1 1998 message
drwxr-x--- 7 root bswd 512 Apr 1 1998 us_english

```

/opt/keymaster3.0/odbc/locales/message:

```

total 6
drwxr-x--- 3 root bswd 512 Apr 1 1998 .
drwxr-x--- 4 root bswd 512 Sep 21 1999 ..
drwxr-x--- 2 root bswd 1024 Sep 21 1999 us_english

```

/opt/keymaster3.0/odbc/locales/message/us_english:

```

total 412
drwxr-x--- 2 root bswd 1024 Sep 21 1999 .
drwxr-x--- 3 root bswd 512 Apr 1 1998 ..
-r--r----- 1 root bswd 4288 Sep 21 1999 blklib.loc
-r--r----- 1 root bswd 2341 Sep 21 1999 cobct.loc
-r--r----- 1 root bswd 2726 Sep 21 1999 common.loc
-r--r----- 1 root bswd 2256 Sep 21 1999 comnlib.loc
-r--r----- 1 root bswd 5732 Sep 21 1999 cslib.loc
-r--r----- 1 root bswd 6524 Sep 21 1999 ctbcpl.loc
-r--r----- 1 root bswd 9777 Sep 21 1999 ctdfncpy.loc
-r--r----- 1 root bswd 3506 Sep 21 1999 ctdrvlib.loc
-r--r----- 1 root bswd 2244 Sep 21 1999 ctisql.loc
-r--r----- 1 root bswd 33806 Sep 21 1999 ctlib.loc
-r--r----- 1 root bswd 24702 Sep 21 1999 dblib.loc

```

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```
-r--r----- 1 root      bswd      8626 Sep 21 1999 dcllib.loc
-r--r----- 1 root      bswd      3790 Sep 21 1999 dscp.loc
-r--r----- 1 root      bswd     13191 Sep 21 1999 esql.loc
-r--r----- 1 root      bswd      2205 Sep 21 1999 libdna.loc
-r--r----- 1 root      bswd      1895 Sep 21 1999 libinsck.loc
-r--r----- 1 root      bswd      1894 Sep 21 1999 libsdna.loc
-r--r----- 1 root      bswd      2161 Sep 21 1999 libsri.loc
-r--r----- 1 root      bswd      1995 Sep 21 1999 libtli.loc
-r--r----- 1 root      bswd      1668 Sep 21 1999 nlmsnmp.loc
-r--r----- 1 root      bswd      2080 Sep 21 1999 nlwnsck.loc
-r--r----- 1 root      bswd     28762 Sep 21 1999 oslib.loc
-r--r----- 1 root      bswd     10258 Sep 21 1999 scllib.loc
-r--r----- 1 root      bswd     12931 Sep 21 1999 tcllib.loc
-r--r----- 1 root      bswd      4352 Sep 21 1999 xdsedit.loc
```

/opt/keymaster3.0/odbc/locales/us_english:

total 14

```
drwxr-x--- 7 root      bswd      512 Apr  1 1998 .
drwxr-x--- 4 root      bswd      512 Sep 21 1999 ..
drwxr-x--- 2 root      bswd      512 Sep 21 1999 cp437
drwxr-x--- 2 root      bswd      512 Sep 21 1999 cp850
drwxr-x--- 2 root      bswd      512 Sep 21 1999 iso_1
drwxr-x--- 2 root      bswd      512 Sep 21 1999 mac
drwxr-x--- 2 root      bswd      512 Sep 21 1999 roman8
```

/opt/keymaster3.0/odbc/locales/us_english/cp437:

total 198

```
drwxr-x--- 2 root      bswd      512 Sep 21 1999 .
drwxr-x--- 7 root      bswd      512 Apr  1 1998 ..
-r--r----- 1 root      bswd     3490 Sep 21 1999 bcp.loc
-r--r----- 1 root      bswd     4205 Sep 21 1999 blklib.loc
-r--r----- 1 root      bswd     2714 Sep 21 1999 common.loc
-r--r----- 1 root      bswd     5332 Sep 21 1999 cslib.loc
-r--r----- 1 root      bswd    25926 Sep 21 1999 ctlib.loc
-r--r----- 1 root      bswd    23995 Sep 21 1999 dblink.loc
-r--r----- 1 root      bswd     1331 Sep 21 1999 defncopy.loc
-r--r----- 1 root      bswd     1185 Sep 21 1999 isql.loc
-r--r----- 1 root      bswd     2216 Sep 21 1999 libdna.loc
-r--r----- 1 root      bswd     1908 Sep 21 1999 libinsck.loc
-r--r----- 1 root      bswd     1906 Sep 21 1999 libsdna.loc
-r--r----- 1 root      bswd     2172 Sep 21 1999 libsri.loc
-r--r----- 1 root      bswd     1883 Sep 21 1999 libtli.loc
-r--r----- 1 root      bswd    12942 Sep 21 1999 tcllib.loc
```

/opt/keymaster3.0/odbc/locales/us_english/cp850:

total 198

```
drwxr-x--- 2 root      bswd      512 Sep 21 1999 .
drwxr-x--- 7 root      bswd      512 Apr  1 1998 ..
-r--r----- 1 root      bswd     3490 Sep 21 1999 bcp.loc
-r--r----- 1 root      bswd     4205 Sep 21 1999 blklib.loc
-r--r----- 1 root      bswd     2714 Sep 21 1999 common.loc
-r--r----- 1 root      bswd     5332 Sep 21 1999 cslib.loc
-r--r----- 1 root      bswd    25926 Sep 21 1999 ctlib.loc
-r--r----- 1 root      bswd    23995 Sep 21 1999 dblink.loc
-r--r----- 1 root      bswd     1331 Sep 21 1999 defncopy.loc
-r--r----- 1 root      bswd     1185 Sep 21 1999 isql.loc
-r--r----- 1 root      bswd     2216 Sep 21 1999 libdna.loc
-r--r----- 1 root      bswd     1908 Sep 21 1999 libinsck.loc
-r--r----- 1 root      bswd     1906 Sep 21 1999 libsdna.loc
-r--r----- 1 root      bswd     2172 Sep 21 1999 libsri.loc
-r--r----- 1 root      bswd     1883 Sep 21 1999 libtli.loc
-r--r----- 1 root      bswd    12942 Sep 21 1999 tcllib.loc
```

/opt/keymaster3.0/odbc/locales/us_english/iso_1:

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total 202

```
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 7 root bswd 512 Apr 1 1998 ..
-r--r----- 1 root bswd 3490 Sep 21 1999 bcp.loc
-r--r----- 1 root bswd 4217 Sep 21 1999 blklib.loc
-r--r----- 1 root bswd 2726 Sep 21 1999 common.loc
-r--r----- 1 root bswd 5344 Sep 21 1999 cslib.loc
-r--r----- 1 root bswd 27967 Sep 21 1999 ctlib.loc
-r--r----- 1 root bswd 23995 Sep 21 1999 dblib.loc
-r--r----- 1 root bswd 1345 Sep 21 1999 defncopy.loc
-r--r----- 1 root bswd 1194 Sep 21 1999 isql.loc
-r--r----- 1 root bswd 2205 Sep 21 1999 libdna.loc
-r--r----- 1 root bswd 1895 Sep 21 1999 libinsck.loc
-r--r----- 1 root bswd 1894 Sep 21 1999 libsdna.loc
-r--r----- 1 root bswd 2161 Sep 21 1999 libsri.loc
-r--r----- 1 root bswd 1995 Sep 21 1999 libtli.loc
-r--r----- 1 root bswd 12931 Sep 21 1999 tcllib.loc
```

/opt/keymaster3.0/odbc/locales/us_english/mac:

total 198

```
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 7 root bswd 512 Apr 1 1998 ..
-r--r----- 1 root bswd 3490 Sep 21 1999 bcp.loc
-r--r----- 1 root bswd 4205 Sep 21 1999 blklib.loc
-r--r----- 1 root bswd 2714 Sep 21 1999 common.loc
-r--r----- 1 root bswd 5332 Sep 21 1999 cslib.loc
-r--r----- 1 root bswd 25926 Sep 21 1999 ctlib.loc
-r--r----- 1 root bswd 23995 Sep 21 1999 dblib.loc
-r--r----- 1 root bswd 1331 Sep 21 1999 defncopy.loc
-r--r----- 1 root bswd 1185 Sep 21 1999 isql.loc
-r--r----- 1 root bswd 2216 Sep 21 1999 libdna.loc
-r--r----- 1 root bswd 1908 Sep 21 1999 libinsck.loc
-r--r----- 1 root bswd 1906 Sep 21 1999 libsdna.loc
-r--r----- 1 root bswd 2172 Sep 21 1999 libsri.loc
-r--r----- 1 root bswd 1883 Sep 21 1999 libtli.loc
-r--r----- 1 root bswd 12942 Sep 21 1999 tcllib.loc
```

/opt/keymaster3.0/odbc/locales/us_english/roman8:

total 198

```
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 7 root bswd 512 Apr 1 1998 ..
-r--r----- 1 root bswd 3490 Sep 21 1999 bcp.loc
-r--r----- 1 root bswd 4205 Sep 21 1999 blklib.loc
-r--r----- 1 root bswd 2714 Sep 21 1999 common.loc
-r--r----- 1 root bswd 5332 Sep 21 1999 cslib.loc
-r--r----- 1 root bswd 25926 Sep 21 1999 ctlib.loc
-r--r----- 1 root bswd 23995 Sep 21 1999 dblib.loc
-r--r----- 1 root bswd 1331 Sep 21 1999 defncopy.loc
-r--r----- 1 root bswd 1185 Sep 21 1999 isql.loc
-r--r----- 1 root bswd 2216 Sep 21 1999 libdna.loc
-r--r----- 1 root bswd 1894 Sep 21 1999 libinsck.loc
-r--r----- 1 root bswd 1906 Sep 21 1999 libsdna.loc
-r--r----- 1 root bswd 2172 Sep 21 1999 libsri.loc
-r--r----- 1 root bswd 1883 Sep 21 1999 libtli.loc
-r--r----- 1 root bswd 12973 Sep 21 1999 tcllib.loc
```

/opt/keymaster3.0/odbc/setupxbms:

total 8

```
drwxr-x--- 2 root bswd 512 Sep 21 1999 .
drwxr-x--- 8 root bswd 512 Aug 30 19:18 ..
-r-xr-x--- 1 root bswd 1397 Sep 21 1999 dismiss.xbm
```

/opt/keymaster3.0/odbc/xappdefaults:

total 6

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```
drwxr-x---  2 root      bswd      512 Sep 21  1999 .
drwxr-x---  8 root      bswd      512 Aug 30 19:18 ..
-r--r----- 1 root      bswd      275 Sep 21  1999 Sybhelp

/opt/keymaster3.0/plugins:
total 6
drwxr-x---  3 root      bswd      512 Feb 18  1999 .
dr-xr-xr-x 15 root      bswd      512 Aug 28 16:08 ..
drwxr-x---  2 root      bswd      512 Sep 21  1999 remote

/opt/keymaster3.0/plugins/remote:
total 6
drwxr-x---  2 root      bswd      512 Sep 21  1999 .
drwxr-x---  3 root      bswd      512 Feb 18  1999 ..
-r--r----- 1 root      bswd        52 Sep 21  1999 env_vars

/opt/keymaster3.0/scripts:
total 70
drwxr-x---  2 root      bswd      512 Jan 25  2000 .
dr-xr-xr-x 15 root      bswd      512 Aug 28 16:08 ..
-r-xr----- 1 root      bswd     1350 Sep 21  1999 audit_bswd
-r--r----- 1 root      bswd     1311 Sep 21  1999 audit_bswd.lm
-r--r----- 1 root      bswd     1757 Sep 21  1999 audit_bswd.awk
-r-xr----- 1 root      bswd    14973 Aug 22 16:49 manage_bswd
-r-xr----- 1 root      bswd      96 Feb  1  2000 selfsign.csh
-r-xr----- 1 root      bswd     1316 Sep 21  1999 solaris_login_audit
-r-xr----- 1 root      bswd      945 Jan 25  2000 startserver
-r--r----- 1 root      bswd       5 Sep 21  1999 startserver.stdin
-r-xr----- 1 root      bswd     1600 Sep 21  1999 stop_it
-r-xr----- 1 root      bswd      814 Jan 25  2000 stopserver
-r-xr----- 1 root      bswd      97 Feb  1  2000 update_config
-r-xr-x---  1 root      bswd     2089 May 15 10:21 whoserver

/opt/keymaster3.0/tmp:
total 4
drwxrws---  2 root      bswd      512 Aug 31 16:02 .
dr-xr-xr-x 15 root      bswd      512 Aug 28 16:08 ..
```