



# *System Manager's Training Guide*

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## Administration

## Overview



- System Status
  - Daemon Status
  - Set Debug Flags
  - Queue Maintenance
  - System/Log Info
  
- User and Group Maintenance
- System Statistics
  - Batch Jobs
  - Gatekeeper
  - WebServer
  
- System Configuration
  - Data Element Configuration
  - Reset System Parameters
  - Gatekeeper Configuration
  - Backside Sources (Local Plug-ins)
  - Connected Sites
  - Register Gatekeeper
  - Add Map Data

## Administration

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## Backside Sources

The purpose of this screen is to allow the administrator to add, remove or edit the configuration of sources that are accessible through the local Broadsword gatekeeper.

The Installed Sources screen contains a table that displays information about the available server types and installed sources.

In this case there are two sources installed: an IPL1.0 and a 5D.

The given server type to be added or removed as a source.

Select a new source of the indicated server type for installation.

Help

Add	Server Type	Remove	Source Description
<input checked="" type="checkbox"/>	IPL	<input type="checkbox"/>	<a href="#">IPL 1.0 Source</a>
<input type="checkbox"/>	IPL20		
<input type="checkbox"/>	IPA		
<input type="checkbox"/>	5D	<input type="checkbox"/>	<a href="#">5D Source</a>
<input type="checkbox"/>	IESS		
<input type="checkbox"/>	NDS		
<input type="checkbox"/>	MIDB		
<input type="checkbox"/>	AMHS		

Add New Source
Remove Marked Items

A list of checkboxes for each installed source of the given server type. Select the checkbox(es) corresponding to the source(s) of the given server type that are to be removed.

A list of descriptions for each installed source of the given server type. (Each description is a link that allows the administrator to edit the configuration for that installed source.)

Adds the server type that is marked for addition

Removes all the sources that are marked for removal

The above screen illustrates how a user would make an addition to the installed sources list.

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## Backside Sources

*Install a new Source  
Continued*

The *Add New IPL Source* screen is entered when the administrator clicks the *Add New Source* button on the *Installed Sources* screen after selecting to add an IPL source. The *Add New IPL Source* screen contains a table of configuration items describing the IPL source to be added.

## Add New IPL Source

Help

Configuration Item	Value	Item Description
IPL Description	IPL 1.0 Source	This field describes the IPL. This will appear in the preferences section of the client.
Query Max Hits	0	This field specifies the max number of hits to return for a query. If zero, then there is no limit.
IPL Host IP Address		This field specifies the IP address the ipl_plugin will use to connect to the IPL "pcr" process.
IPL TCP/IP Port	5004	This is the TCP/IP port that the ipl_plugin will use to connect to the IPL "pcr" process.
IPL Site Name		This is the site name of the IPL to query. This should match the IPL Site Name as configured in the IPL download file.
IPL Host IP Address		This is the IP address of the IPL to query. This should match the IPL IP Address as configured in the IPL download file.
IPL Order Status Port	5007	This is the port that IPL will send status messages to after a order request.
Harvest TCP/IP port	8501	This is the TCP/IP port that the Harvest daemon is using.
Format Conversion Flag	N	If this field is set to Y, then Broadsword will perform all conversion/compression.
Publish Flag	Y	If this flag is Y, then existence of this source will be made known to all other gatekeepers.
IPL Account	ipamngr	This is the IPL account Broadsword uses to connect to IPL.
IPL Password		This is the IPL password Broadsword uses to connect to IPL.
Initial Access Control:	<input checked="" type="radio"/> Deny All <input type="radio"/> Allow All	This denotes whether to allow or deny all users access to this source. Fine tune individual allow/deny access in User Maintenance

## Administration

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## Backside Sources

.....  
*Remove an Installed Source*  
*Continued*

### Confirm Removal of Sources Help

You have requested removal of the following sources:

Source Description	Source Reference
5D Source	7278f56b:898556971:5D:898558572

### Are You Sure?

Confirmed Cancel

Clicking on the *Remove Marked Items* button will bring the user to this screen, which allows the user to confirm or cancel the deletion of an installed source.

## Administration

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## Backside Sources

The *Edit IPL Source* screen is entered when the administrator clicks an *IPL Source Description* link from the *Installed Sources* table on the *Installed Sources* screen. The *Edit IPL Source* screen contains a table of configuration items describing the particular IPL source.

When the Publish Flag is set to “Y”, ALL the other gatekeepers can see this source. When it is set to “N”, NO other gatekeepers can see this source.

### SYSTEM CONFIGURATION

Data Element Configuration
Reset Sys Params
Gatekeeper Config
Backside Sources
Connected Sites
Register Gatekeeper
Add Map Data

**Edit IPL 1.0 at Atlas via Alepth Source**
Help

Configuration Item	Value	Item Description
IPL Description	IPL 1.0 at Atlas via	This field describes the IPL. This will appear in the preferences section of the client.
Query Max Hits	0	This field specifies the max number of hits to return for a query. If zero, then there is no limit.
IPL Host IP Address		This field specifies the IP address the ipl_plugin will use to connect to the IPL "pcr" process.
IPL TCP/IP Port	5004	This is the TCP/IP port that the ipl_plugin will use to connect to the IPL "pcr" process.
IPL Site Name	atlas	This is the site name of the IPL to query. This should match the IPL Site Name as configured in the IPL download file.
IPL Host IP Address		This is the IP address of the IPL to query. This should match the IPL IP Address as configured in the IPL download file.
IPL Order Status Port		This is the port that IPL will send status messages to after a order request.
Harvest TCP/IP port		This is the TCP/IP port that the Harvest daemon is using.
Format Conversion Flag	N	If this field is set to Y, then Broadsword will perform all conversion/compression.
<b>Publish Flag</b>	<b>Y</b>	If this flag is Y, then existence of this source will be made known to all other gatekeepers.
IPL Account		This is the IPL account Broadsword uses to connect to IPL.
IPL Password	*****	This is the IPL password Broadsword uses to connect to IPL.
<b>Access Control:</b>	<input type="radio"/> Deny All <input checked="" type="radio"/> Allow All	This denotes whether to allow or deny all users access to this source. Fine tune individual allow/deny access in User Maintenance

Save
Cancel

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## Backside Sources

The “Access Control” configuration item determines whether the source is available by default to all users. If the “Deny All” button is chosen, all users are denied access to the source and permission to access the source must be granted on an individual basis. To allow access to every local user, but not to users outside the local gatekeeper’s domain, set the “Publish Flag” to “N” and the “Access Control” to “Allow All”. The table to the right summarizes the possible options.

## Summary of Remote Access Controls

Access Control	Publish	Flag
	No	Yes
<b>Deny All</b>	The source is not known by remote gatekeepers. The source is not accessible by default to users. Local users are granted access to the source on an individual source basis through the Users and Groups function as part of the System Configuration section.	The source is known to all gatekeepers (both local and remote), but is not accessible, by default, to any user. Access to the source can be made available to individual local users, but cannot be given to users coming through a remote gatekeeper.
<b>Allow All</b>	The source is not known to any remote gatekeeper, but all local users have access, by default, to the source.	The source is known by all remote gatekeepers and is also, by default, accessible by all users (both local and remote).

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## Gatekeeper Config

This page allows the administrator to modify various parameters of the local Gatekeeper. Several configuration items, their current (editable) values, and help text for each are presented.

### Edit Gatekeeper

[Help](#)

Configuration Item	Value	Item Description
Gatekeeper Description	sun Gatekeeper	This gives a human readable name to a gatekeeper (i.e. ACOM)
Gatekeeper IP Address	123.456.78.9	This is the IP Address of the Gatekeeper
Gatekeeper TCP/IP Port	5500	This is the TCP/IP port number the gatekeeper will wait for connections
Point Of Contact	John Gates	This is the name of the person responsible for maintaining this gatekeeper. This name is also used for registration with a keymaster.
POC Phone #	(315) 330-7082	This is the unclassified phone number for the POC.
POC Email	gatesj@sun.irdl.rl.af	This is the email address (name@hostname) for the Point of Contact.
Organization Name	Synectics Corporation	This is the organization name where this gatekeeper resides.
Country Code	US	This is the 3 character country code where this gatekeeper resides.
State or Locality	NY	This is the state or locality where this gatekeeper resides.
City	Rome	This is the city where this gatekeeper resides.
Client Idle Timeout	30	This is the time in minutes the gatekeeper waits for client activity before closing the connection

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## Gatekeeper Config

### Gatekeeper Config (cont)

Once the Administrator has made the necessary modifications and saved the changes he *must* restart the conan daemon.

Registered User Account	<input type="text" value="bswduser"/>	This is the name used to login to the Gatekeeper for Registered Users
Profile User Account	<input type="text" value="cdimuser"/>	This is the name used to login to the Gatekeeper by the Profile process
Alternate User Account	<input type="text" value="bswduser"/>	This is the name used to login to the Gatekeeper by remote gatekeepers during alternate delivery of a product
Gatekeeper Database Name	<input type="text" value="Bswd5ybase"/>	This is the name of the database the gatekeeper uses
Gatekeeper Database Account	<input type="text" value="bswd2user"/>	This is the database account the gatekeeper uses to login into the database
Registered User Password	<input type="password" value="*****"/>	This is the password used to login to the Gatekeeper for Registered Users
Profile User Password	<input type="password" value="*****"/>	This is the password used to login to the Gatekeeper by the Profile process
Alternate User Password	<input type="password" value="*****"/>	This is the password used to login to the Gatekeeper by remote gatekeepers during alternate delivery of a product.
Gatekeeper Database Password	<input type="password" value="*****"/>	This is the database password the Gatekeeper uses to login into the database



*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.

Select the field(s) of the items that require modification, enter their new value, and when complete, click the *Save* button. You may click *Reset* to revert any changes you have been making to the page and start over.

To Restart conan: As root at the unix command line input the following

```
ps -ef |grep conan
kill -9 [whatever PID conan has]
/opt/bswd2.0/client/bin/startconan
```

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Reset Sys  
Params

.....

The *Reset Home Page Access Counter* section allows the administrator to set to zero the access counter that appears on the Broadsword login screen. This is accomplished by clicking the *Home Page Access Counter* checkbox, followed by clicking the *Execute* button that appears in the bottom button bar.

Reset Home Page Access Counter Help

Home Page Access Counter

The Home Page Access Counter is displayed when a user logs in.

## Administration

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Reset Sys  
Params

The *Set System Parameters* section allows the administrator to set certain system parameters. For example, the administrator can change the delay before a user's pull is automatically cancelled by the system.

In this case, that value is set to 1200 seconds.

## Set System Parameters

Help

NOTE: All Times are in seconds.

Parameter	Value	Description
Pull Time Out : ( 300 - 86400 )	<input type="text" value="1200"/>	Time Out for Pull Product Failures.

## Administration

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Reset Sys  
Params

The purpose of the *Set E-Mail Notification Parameters* screen is to allow the administrator to establish those parameters that affect Broadsword's standing query capability.

The Minimum Interval between checks is currently fixed at 30 minutes, and, in this case, the Send Mail Directory is set to /usr/lib.

Defines the frequency at which the E-Mail Notification processing is performed

**Set E-Mail Notification Parameters**
Help

Parameter	Value	Description
Minimum Interval : ( Minutes )	30	Time increment for checking for new/modified products.
Send Mail Directory : ( Normally /usr/lib )	<input type="text" value="/usr/lib"/>	Directory where Send Mail daemon expects its files to be.

Execute
Reset

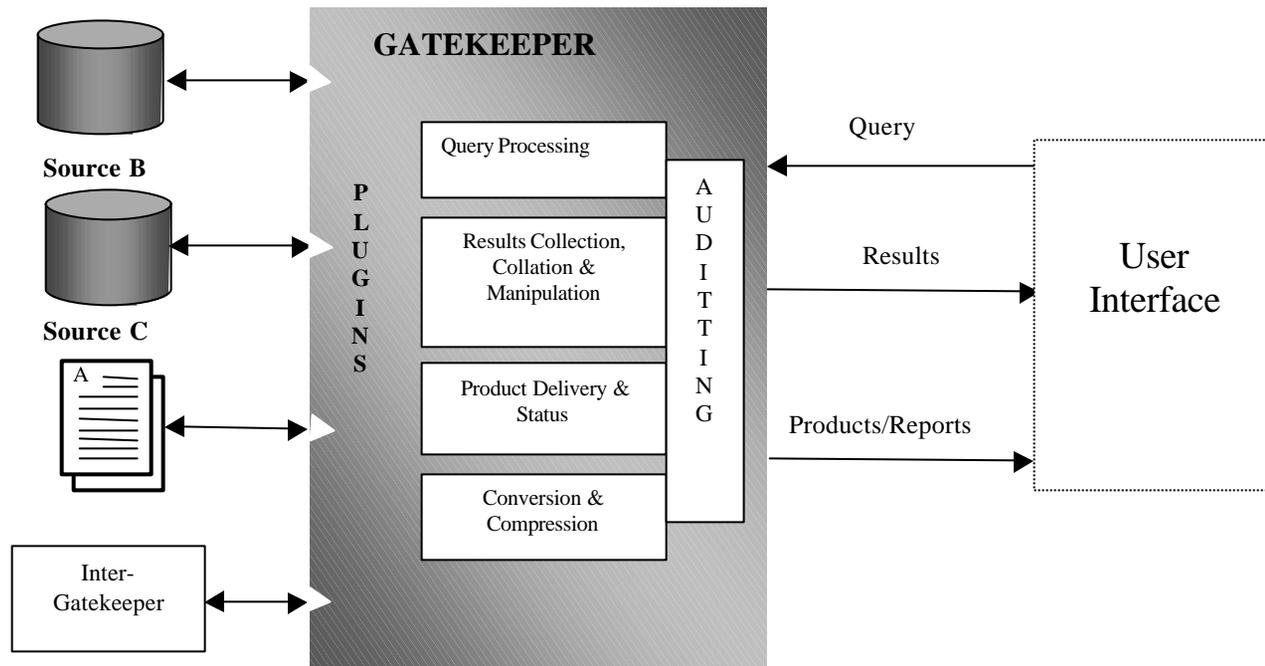
E-mail notification is sent via the "sendmail" command. This command is typically located in the "/usr/lib" directory.

Returns the selections to their previously applied values and automatically applies these changes

Saves the current selections

# Architecture

## Gatekeeper



## The “Gatekeeper”

### Plug-ins

- Currently Supported Plug-ins:

- Air Force Weather
- AODB
- IESS v3.0
- Intelink Meta-Search
- IPL v1.0
- MEPED
- NDS
- AMHS v2.2.7/v2.3.1
- 5D v4.0.4
- Intelink Hydra
- IPA v1.2.3
- IPL v2.0
- MIDB v2.0J
- Space DB

- Products:

- CSIL
- IDEX

# The “Gatekeeper”

## Security Features

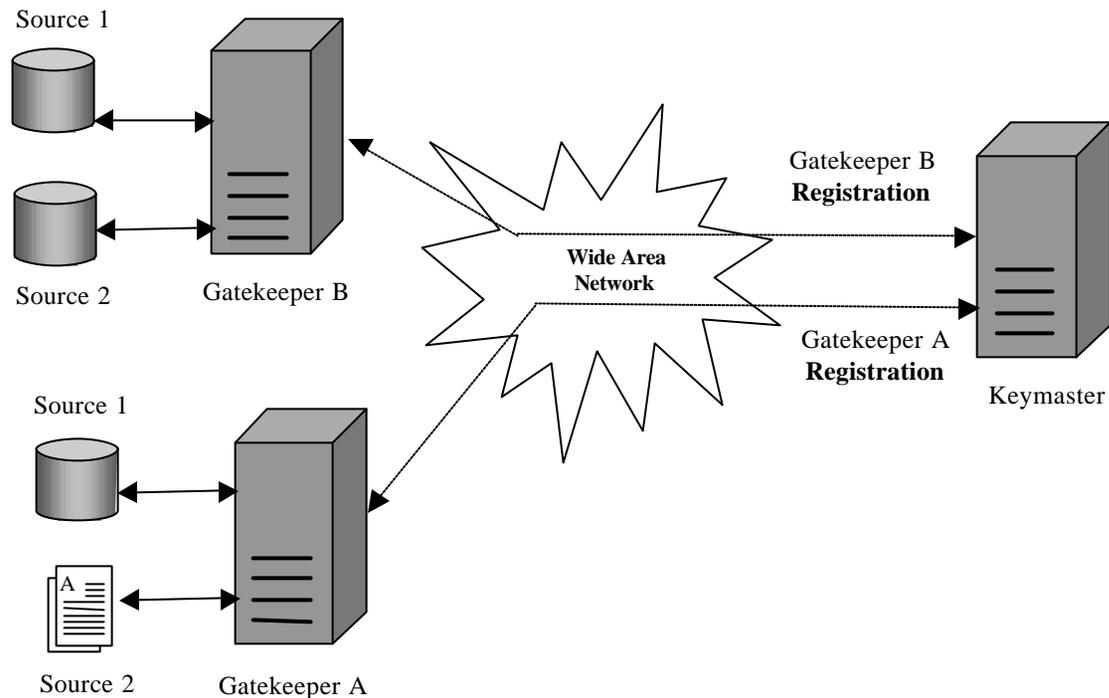
- Unitary Login
- Auditing of: Login/Logout,  
Query,  
Query Response  
Product Request,  
Product Transfer  
Admin/ISSO Access/Functions
- Support for Brokered Login (e.g., AMHS)
- User /Source Mapping
- ISSO Audit Reports

## Architecture

### Inter-Gatekeeper

The purpose of registering with the keymaster is to allow potential access to sources by all other registered gatekeepers. Each gatekeeper allows or denies gatekeepers access to each of its sources.

Unregistered gatekeepers are a standalone system, sources are not shared and no indirect sources can be accessed.



Gatekeeper to gatekeeper connectivity is established after both register with the keymaster.

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## Register Gatekeeper

This screen allows a gatekeeper to register with a Keymaster, thus allowing access to remote gatekeepers and their sources.

The screenshot shows a web form titled "Register Gatekeeper" with a "Help" button in the top right corner. The form contains three input fields: "Keymaster IP Address", "Keymaster Port", and "Registration ID". Below the input fields is a "Register Gatekeeper" button.

How to Register a Gatekeeper:

1. Contact via secure telephone, the Administrator of the Keymaster you want to register with.
2. The Keymaster will provide the Keymaster IP address, port number, and a one time password needed for the registration process.
3. Enter all the information required on the registration page and click on the Register Gatekeeper button at the bottom of the page.
4. Upon successful registration, go to the Connected Sites page to allow access to the available sources provided from the registration process.

## Note:

1. If the registration process returns an error message, contact the Keymaster to resolve the problem.

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## Connected Sites

This screen lists the Keymasters, remote gatekeepers, and remote sources, that are connected to the assigned (local) Broadsword gatekeeper. It allows the administrator to turn on and off global access to the remote sources available after the local gatekeeper has been registered with a Keymaster.

**Connected Sites** Help

**KEYMASTER**  
 >Registered to 'Mars Keymaster' on (Zulu) Fri May 7 20:23:38 1999

ALLOW ALL	GATEKEEPER	SOURCE
<input checked="" type="checkbox"/>	BSWD 2.0 Baseline Neptune Gatekeeper	...
<input checked="" type="checkbox"/>	...	IPA 1.2.3 at Moon Via Neptune Baseline
<input checked="" type="checkbox"/>	...	5D at Neptune via Neptune2.0
<input type="checkbox"/>	...	AMHS at Elara
<input checked="" type="checkbox"/>	...	IPL 1.0 at Atlas via Neptune2.0
<input type="checkbox"/>	...	NDS at Moon via Neptune2.0
<input checked="" type="checkbox"/>	...	MIDB at Hoth via Neptune2.0
<input type="checkbox"/>	...	IESS at iess0 Via Neptune2.0
<input type="checkbox"/>	...	Intelink-Hydra Source
<input type="checkbox"/>	...	Intelink-Meta Search Via Neptune
<input type="checkbox"/>	...	CSIL at Neptune Via Neptune
<input type="checkbox"/>	...	Meped Via Neptune
<input type="checkbox"/>	...	DIA CSIL-DO NOT USE FOR TESTING
<input type="checkbox"/>	...	IPL20@sun.bswd
<input type="checkbox"/>	...	Air Force Weather via Neptune
<input type="checkbox"/>	...	IPL 1.0 at Sun via Neptune
<input type="checkbox"/>	...	Keymaster Test 5D
<input type="checkbox"/>	...	IPL 2.0 Stub Server at Sun via Neptune
<input type="checkbox"/>	...	AODB at HOTH via Neptune Baseline

## Administration

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## Data Element Configuration

Data Elements are all the available attributes in the Broadsword environment. The Data Element Configuration tab is used to edit some parameters for each attribute.

Initially, the page presents the administrator with a scrolled list of all available Data Elements.

To edit a particular element, select its name from the list and select the Edit button. The Reset button only clears your selection from the list.

**Data Elements** Help

Select Data Element to Modify

- Equipment-Airfield Load Class (EQP.ALC)
- Equipment-Airfield Pavement Type (EQP.APPT)
- Equipment-Allegiance (EQP.ALG)
- Equipment-Azimuth (EQP.AZIMUTH)
- Equipment-Capacity (EQP.CAP)
- Equipment-Country Designed (EQP.CTRYDSN)
- Equipment-Country Produced (EQP.CTRYPROD)
- Equipment-ELINT Site Number (EQP.PIN)
- Equipment-Equipment Code (EQP.EQPCODE)
- Equipment-File Number (EQP.FILE\_NUMBER\_E)

Edit Reset

**IMPORTANT NOTE:** The list of data elements available is a union of the elements for each source that the administrator has, NOT the list of all sources that the site has access to. To ensure that this list is complete make sure that the administrator account has access to all available local sources.

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## Data Element Configuration

After selecting an item to edit, the Edit Element page will be presented. Here you may edit certain parameters of the element, set as a Mandatory Value, and get a listing of the pre-defined values.

In this example, the element is PRD.ATEXT

The element attribute name.

The help text displayed when this element is selected.

Available only if supported by IPL.

Restrictions on the values of a data element.

Each item is entered individually. Item help is typically definition or description.

To return to the data element listing.

To enter more items for this data element.

Each data element may have a list of pre-defined values associated with it. These are the values the user sees in the pop-down menus. If an element has a data list defined, the data list items are the only values it can be. When creating a list for an element that does not have a data list, the administrator should be sure to define all possible values the element can be.

**Edit 'PRD.ATEXT' Element** Help

Element Attribute	Value
Display Name	Summary
Help Text	Text further describing the product or a
Cataloging Mandatory Value	<input type="radio"/> Yes <input checked="" type="radio"/> No

**Data List Constraints (If Any)**

Data Type	Character
Minimum Length	
Maximum Length	4096

Create a Data List with First Item:

Help Text for New Item:

You must logout and login again for any changes to take effect  
Please logout and log back in to check that your changes have been made.

An element attribute which has a data list will offer Delete and Add rather than Create

Delete Data List Item

Add Data List Item

## Administration

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## Add Map Data

This section allows the administrator to add additional Vector Product Format (VPF) maps to the default set of map data included in Broadsword. The following Vmap levels are supported: vmaplv0, vmaplv1, vmaplv2, and uvmap.

### SYSTEM CONFIGURATION

Data Element Configuration	Reset Sys Params	Gatekeeper Config	Backside Sources	Connected Sites	Register Gatekeeper	Add Map Data
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#### Add Vector Map Data Help

Location of Vector Map Data :

Vector Map Data Base Name :

Vector Map Data Library Name :

Vector Map Level :

Apply Reset

Note: Adding new VPF data is both time consuming and CPU intensive. It is recommended that this operation be performed during non-peak hours.

## Administration

- System Status
- Users and Groups

The purpose of *User/Group Privileges* is to allow the administrator to add/remove a given user/group to/from having access to certain system privileges.

In this example, the Group ID of *admin* is selected to be updated.

### USERS AND GROUPS

User/Group Privileges	Update Groups	Group Members	Group Admin
-----------------------	---------------	---------------	-------------

**Update Privileges and Source Access** Help

Enter the User ID or Group ID you wish to update

Or select the Group ID you wish to update

- NO SELECTION
- admin
- groupa
- groupb
- groupc

Execute Reset

## Administration

- System Status
- Users and Groups

### .....

#### *User/Group Privileges continued*

The form displays a list of privileges for the user/group that may be added or removed.

Under Source Access, a list of accessible gatekeepers and there associated backside sources is displayed. The administrator can change the access settings for the given user or group, to each remote gatekeeper and all listed sources.

**Privileges for Group: admin** Help

<b>Admin Privileges :</b>	No	<input type="checkbox"/> Add Access
<b>ISSO Privileges :</b>	No	<input type="checkbox"/> Add Access
<b>Producer @ IPA 1.2.3 at Moon Via Neptune Baseline</b>	No	<input type="checkbox"/> Add Access

**Source Access for Group: admin** Help

<b>BSWD 2.0 Baseline Neptune Gatekeeper</b>	( Assigned Gatekeeper )
IPA 1.2.3 at Moon Via Neptune Baseline	<input type="checkbox"/> Add Access
5D at USAFE-RAMS via Neptune	<input type="checkbox"/> Add Access
Space Database Source	<input type="checkbox"/> Add Access
<b>sun Gatekeeper</b>	<input type="checkbox"/> Add Access

Execute
Reset

## Administration

- System Status
- Users and Groups

The purpose of *Update Groups* is to allow the administrator to add/remove a given user/group to/from having access to certain system privileges.

In this example, the user input the Group ID *testuser* to be updated.

**USERS AND GROUPS**

User/Group Privileges   Update Groups   Group Members   Group Admin

**Update Groups**   Help

Enter the User ID or Group ID you wish to update

testuser

Or select the Group ID you wish to update

NO SELECTION  
groupa  
groupb  
groupc  
testers

Execute   Reset

## Administration

- System Status
- Users and Groups

*Update Groups* presents a list of groups that can be used to update the list of groups to which the given user or group belongs. The names of all Broadword groups are displayed along with a checkbox allowing the given user or group to be added or deleted to/from the list of groups to which the given user or group currently belongs.

Although groups may be added to other groups, a group may not be a member of itself through recursive membership in other groups.

**USERS AND GROUPS**

User/Group Privileges
Update Groups
Group Members
Group Admin

**Update Groups** Help

**Enter the User ID or Group ID you wish to update**

**Or select the Group ID you wish to update**

NO SELECTION ▲  
 admin  
 groupa  
 groupb  
 groupc ▼

**Update Groups for Group - testuser** Help

Group Name	Add or Delete
<a href="#"><u>admin</u></a>	<input type="checkbox"/> Add Group
<a href="#"><u>groupa</u></a>	<input type="checkbox"/> Add Group
<a href="#"><u>groupb</u></a>	<input type="checkbox"/> Add Group
<a href="#"><u>groupc</u></a>	<input type="checkbox"/> Add Group
<a href="#"><u>testers</u></a>	<input type="checkbox"/> Add Group

Execute
Reset

## Administration

- System Status
- Users and Groups

The purpose of *Group Members* is to allow the administrator to update the membership in a group by adding new members and deleting existing members.

### USERS AND GROUPS

User/Group Privileges	Update Groups	Group Members	Group Admin
-----------------------	---------------	---------------	-------------

#### Update Group Membership

[Help](#)

Select Group to Update

NO SELECTION
groupa
groupb
groupc
testers

[Select](#) [Reset](#)

## Administration

- System Status
- Users and Groups

### *Group Members continued*

Once a group is selected to be updated the “Add Group Members” and “Delete Group Members” form appears.

Under Add Group Members, the administrator may input in the text area a user or group id to be added to the selected group.

Under Delete Group Members, the administrator may check the user or group to be removed from the selected group.

**USERS AND GROUPS**

User/Group Privileges
Update Groups
Group Members
Group Admin

**Update Group Membership** Help

Select Group to Update

NO SELECTION  
 groupa  
 groupb  
 groupc  
 testers

**Add Group Members - Group: groupa** Help

Enter the User ID or Group ID you wish to add to the groupa group

**Delete Group Members - Group: groupa** Help

User or Group Name	Check to Delete
<a href="#" style="color: red; text-decoration: underline;">groupc</a>	<input type="checkbox"/> Remove Group

Execute
Reset

## Administration

- System Status
- Users and Groups

.....

*Group Admin* provides the system administrator the capability to add and delete groups.

A single Broadsword group can be added with each execution of this form. Add Group can be used simultaneously with the Group Admin Delete Groups function.

Broadsword group names are not allowed by Broadsword to be the same as Unix usernames. The system administrator must be careful when adding Unix users to the system to assure that Unix user ids do not conflict with Broadsword group ids. Broadsword groups are maintained by Broadsword, independent of the Unix group mechanism.

USERS AND GROUPS

User/Group Privileges
Update Groups
Group Members
Group Admin

### Group Administration - Add Group

Help

Enter the Group ID you wish to add:

### Group Administration - Delete Groups

Help

Group Name	Check to Delete	Members Affected
<a href="#"><u>admin</u></a>	<input type="checkbox"/> 0 members	0 users and 0 groups
<a href="#"><u>groupa</u></a>	<input type="checkbox"/> 1 member	0 users and 1 group
<a href="#"><u>groupb</u></a>	<input type="checkbox"/> 1 member	0 users and 1 group
<a href="#"><u>groupc</u></a>	<input type="checkbox"/> 0 members	0 users and 0 groups
<a href="#"><u>testers</u></a>	<input type="checkbox"/> 5 members	5 users and 0 groups

Execute
Reset

## Administration

- System Status

↓

### Daemon Status

The purpose of this section is to show the administrator the status of the processes that are needed to run the current Broadsword port, identify possible problems and suggest solutions to these problems.

The image to the right contains a sample Daemon Status screen in which all of the daemons are running.

Name of the daemon process.

Process ID of the corresponding daemon process.

Status of the corresponding daemon process.

The process table should contain information on each of the mandatory processes. Also, any local plugins should also appear in the process table, if they were configured by the administrator.

Daemon Name	Process ID	Status
meped_plugin	6290	running

This is a static display. Click on the Update Display button for most current status

## Administration

### System Status

### Queue Maintenance

The purpose of this section is to allow the administrator to perform periodic maintenance on or trouble shoot problems related to the state of the message queue that effects the current Broadsword port. The message queue shows the message traffic that occurs between the session manager (Conan) and client processes (cgi-bins).

The System Administrator needs to check Queue Maintenance frequently.

Message queue access modes are nine characters interpreted as three sets of three bits each.

Login name of the owner of the message queue.

Number of bytes in messages currently outstanding on the message queue.

Number of messages currently outstanding on the message queue.

Maximum number of bytes allowed in messages outstanding on the message queue.

Process ID of the last process to send a message to the queue.

Process ID of the last process to receive a message from the queue.

Queue ID	Access Modes	Owner	Current Bytes	Current # of Messages	Max Bytes	Last Pid to Send	Last Pid to Receive
251	rw-rw-rw-	root	133	1	4096	9012	9111

Updates message queue table display with the latest information about the queue.

Releases a stuck message from the queue starting with the oldest message. Successive clicks of this button releases the next message in the queue.

## Administration

### • System Status



### Queue Maintenance

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

## Summary of Potential Problems/Solutions

Problem Condition	Possible Solution
A user cannot log into Broadsword or logins are taking an unusually long time.	If the administrator cannot log into the Broadsword session manager, conan may not be running. At the unix level check to see if the process conan is running. If conan is <b>not</b> running, start it up by typing <code>/opt/bswd&lt;version_number&gt;/bin/startconan</code> . If conan is running, follow the instructions in the next problem solution.
Response time is unusually long after clicking any action button	Messages may be stuck on the message queue or the <b>Current Bytes</b> on the queue may have exceeded the <b>Max Bytes</b> . Check for this by clicking the “ <b>Update Display</b> ” button. If the <b>Current Bytes</b> and <b>Current # of Messages</b> are greater than zero and these entries do not go down after clicking the “ <b>Update Display</b> ” button several times, waiting a few seconds between tries, then messages are stuck on the queue. Release stuck messages from the queue by clicking the “ <b>Pop Message</b> ” button. Upon clicking the “ <b>Pop Message</b> ” 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 “ <b>Pop Message Info</b> ” table when discussing the problem.
-OR-	
Get no response after clicking any action button	

## Administration

- System Status



## Queue Maintenance

The “Summary of Messages” 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 follows in the table to the right.

## Summary of Messages

Information Type	Description
Receiving Process: OR Pid of Receiving Process:	Identifies the process that was to receive the message appearing in the queue. <b>VALID VALUES:</b> conan for <b>Receiving Process</b> , process id of client process for <b>Pid of Receiving Process</b>
Command:	The command that initiated the message that was put on the queue by the sending process. <b>VALID VALUES (conan):</b> Server Response, Server Administration. <b>VALID VALUES (client processes):</b> 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.

## Administration

• System Status

### Set Debug Flags

The purpose of this section is to allow the administrator to set or clear debug flags prior to viewing the Conan Log File.

The *Set Debug Flags* screen should be used when debugging a problem with the assistance of a Broadsword technical support person

Technical Assistance would instruct the administrator to set certain debug flags depending on the problem being addressed.

Help

Debug	Flag Name
<input type="checkbox"/>	AutoLog
<input type="checkbox"/>	BNF
<input checked="" type="checkbox"/>	Comm
<input type="checkbox"/>	Config
<input type="checkbox"/>	Connect
<input type="checkbox"/>	CleanUp
<input type="checkbox"/>	Scrm
<input checked="" type="checkbox"/>	Server
<input type="checkbox"/>	SesMngr
<input type="checkbox"/>	UserAdmin

[View Conan Log File](#)

Apply Changes
Toggle All On
Toggle All Off
Reset

Checkbox for selecting the debug flag.

Name of debug flag.

Returns the settings in the Debug column to their previously applied values and automatically applies these changes.

Used to view the Conan Log File

Apply the settings selected in the Debug column.

Selects all items in the Debug column and automatically applies these changes.

Deselects all items in the Debug column and automatically applies these changes.

## Administration

### System Status

### Sys/Log Info

The purpose of this section is to allow the administrator to monitor and/or free up disk space due to log files that Broadsword effects. 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 Broadsword port resides.

In this example, the root directory for the client logs is: /opt/bswd2.0/client.

### System and Log Info Help

To purge one or more log files, select the log files to be purged and press the "Purge Log Files" 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"/>		error_P.log	157
<input type="checkbox"/>		jivacronlog	60
<input type="checkbox"/>		cgi_debug.log	22,915
<input type="checkbox"/>		conan.log	26,773
<input type="checkbox"/>		access_P.log	7,785

File System	Total Kilobytes	Used	Available	Capacity
/opt/bswd2.0/client	3,946,496	1,169,408	2,777,088	30%

Update Display
Purge Log Files

Name of log file.

Checkbox for selecting the log file.

Logs httpd error information.

Logs httpd activity information.

Displays the current location of the log files.

File system's total capacity in kilobytes.

Amount of file system's total capacity that has been used, in kilobytes.

Amount of file system's currently available capacity, in kilobytes.

Percentage of file system's capacity that has been used.

Size of the log file.

Logs the automated processes (i.e., profiles, system usage) and the errors created by these processes.

Purges the log file(s) selected in the Select column, thus freeing disk space.

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.

## Administration

- System Status
- Users and Groups
- System Statistics



## Batch Jobs

This page allows the System Administrator to view the pending or processing batch jobs that have been scheduled by the users.

Remember to check the batch jobs that are running before taking down the system to do maintenance.

Line	User	DATE	Status	Job ID	Query Name	Query
1	harnelt	1800 May 05 1999	Pending	925927200.a	cc_iz	TGT.CTRYCD = "IZ"

Time & Date the query is to be processed

Unique ID number assigned for each batch process

User Account Name

States the status of either pending or processing

User specified query name

Query specifics

## Administration

- System Status
- Users and Groups
- System Statistics



## Gatekeeper

.....

This screen will allow the System Administrator to see which of the sources are being queried, in what order of frequency, and the load on each of the sources.

Gatekeeper - Top Data Sources <span style="float: right;">Help</span>			
Top 10 Sources	Data Source	Number of Queries	Date of Last Query
1	IPL 1.0 at Sun via Neptune	2678	1999 May 05, 17:30:14
2	IPA 1.2.3 at Moon Via Neptune Baseline	2543	1999 May 05, 13:30:18
3	IPL 1.0 at Atlas via Neptune2.0	2253	1999 May 05, 17:07:06
4	5D at Neptune via Neptune2.0	1859	1999 May 05, 17:32:37
5	Keymaster Test 5D	909	1999 May 05, 17:30:21
6	Source Unk	246	1999 Feb 11, 19:02:05
7	IPL20@sun.bs wd	204	1999 Apr 20, 12:49:33
8	Source Unk	174	1999 Apr 20, 18:26:06
9	Air Force Weather via Neptune	165	1999 Apr 22, 19:34:29
10	Source Unk	155	1999 Apr 20, 16:20:02

## Administration

- System Status
- Users and Groups
- System Statistics



## Gatekeeper

### Gatekeeper Stats (Cont.)

This screen will allow the System Administrator to see the top 10 requested products and the number of times it has been requested.

### Gatekeeper - Top Requests

[Help](#)

Top 10 requests	Product Accessid	Product Source	Number of requests	Date of Last Request
1	IPA_sun_31141329ZMar99_270130	IPL 1.0 at Sun via Sun	10	1999 Apr 29, 13:58:24
2	IPA_sun_31140654ZMar99_294729	IPL 1.0 at Sun via Sun	10	1999 Apr 29, 13:58:32
3	IPA_atlas_27172848ZApr99_406504	IPL 1.0 at Atlas via Sun	10	1999 Apr 29, 19:56:28
4	IPA_sun_09163936ZJul97_863473	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:00:41
5	IPA_sun_09163821ZJul97_555098	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:00:49
6	IPA_sun_09163636ZJul97_227431	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:00:58
7	IPA_sun_09163510ZJul97_898567	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:01:06
8	IPA_sun_09163315ZJul97_578956	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:01:14
9	IPA_sun_09161205ZJul97_868883	IPL 1.0 at Sun via Sun	9	1999 Apr 29, 14:01:31
10	IPA_atlas_27172938ZApr99_406504	IPL 1.0 at Atlas via Sun	9	1999 Apr 29, 19:54:28

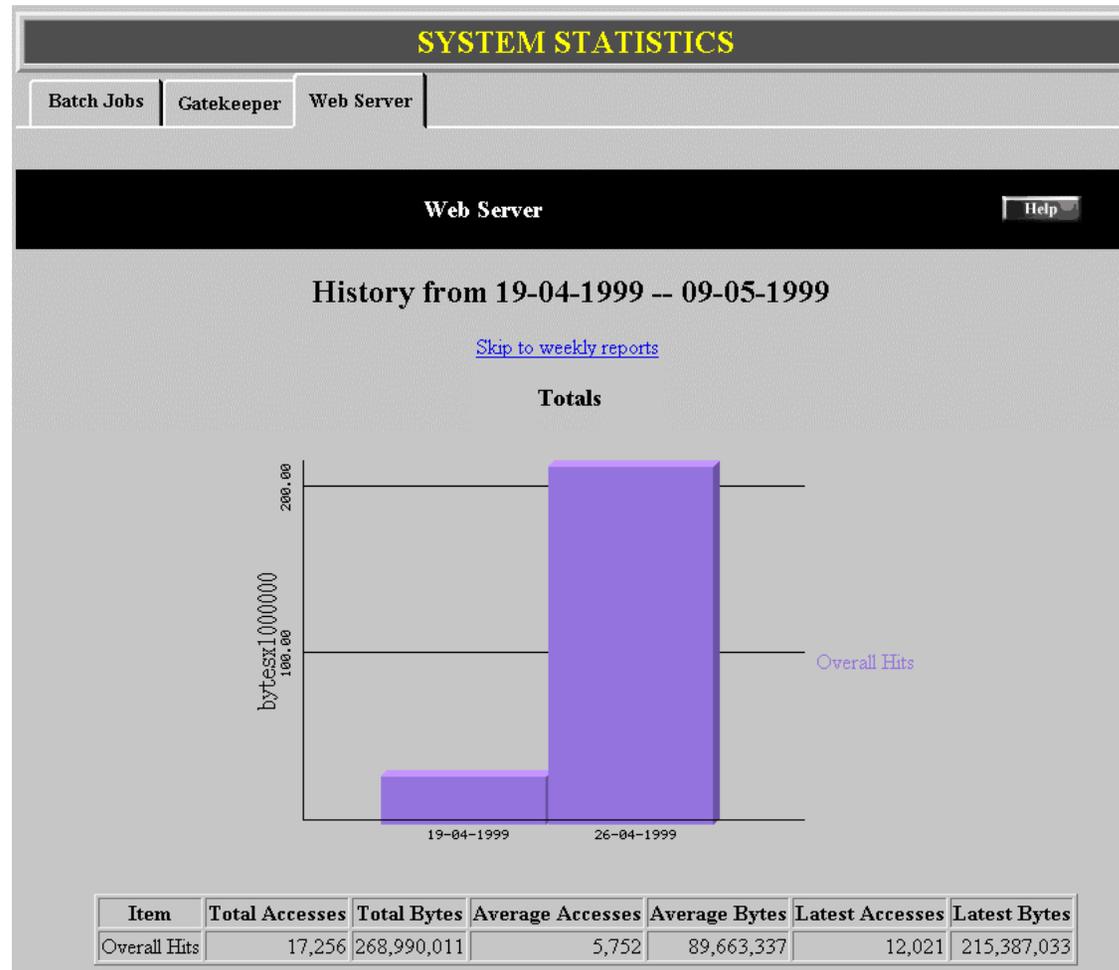
## Administration

- System Status
- Users and Groups
- System Statistics



## Web Server

Web server statistics helps you determine the true impact on your web server; by measuring the popularity of Web documents, as well as identifying the sites that access your server most often.



## Administration

(from the command line)

.....

Instructions on how to start the Broadsword processes.

Remember to do the input from the console, must be user root, system must be xhosted, and do not logoff of the system until process is complete.

### To Start the System

1. To **start** the processes, do the following at the UNIX command line:

```
cd /opt/bswd2.0/scripts <cr>
```

```
./startserver <cr>
```

and press *<cr>* **twice** to take the defaults to startup all server processes.

## Administration

(from the command line)

.....

Instructions on how to stop the Broadsword processes.

### To Stop the System

To **stop** the processes, do the following at the UNIX command line:

```
cd /opt/bswd2.0/scripts <cr>
```

```
./stopserver <cr>
```

and press *<cr>* **twice** to take the defaults to stop all server processes.

\*\* Note this process also **stops** Sybase. If Sybase is shared with IPL you may not want to do this.

## Administration (from the command line)

.....

Instructions on how to check  
the Broadsword processes.

### To Check the System

To **check** the Server processes, do the following at the UNIX command line:

```
cd /opt/bswd2.0/scripts <cr>
```

```
./whoserver <cr>
```