

Sun Internet Mail Server™ 4.0 Product Update

This product update reflects changes made to the SIMS 4.0 release introduced by the 05 revision of the SIMS product patch (108049-05 for SPARC and 108050-05 for Intel). The product update notes cover installation and software bugs for SIMS 4.0. The patch update process is outlined as follows:

- Read through this Product Update.
- Obtain the software patches from SunSolve.
- Install the new software patch on the system running SIMS 4.0.

Product Update Notes.

Items covered in this product update are cumulative from the initial release of SIMS 4.0.

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Installation Updates

This section describes updates and workarounds for the known problems that occur during installation and initial configuration.

Installation Fails with root umask Set to 227 (bug 4270752)

Description: An address error occurs during SIMS 4.0 installation. Because the root umask is set to 227 (read and execute permission only for owner and group), the IMTA configuration file could not be properly created.

Workaround: Before installation, set the root umask to 227 (read, write, and execute permission for owner; read and execute permission for group and other).

Disappearing Lines in slapd.conf (bug 4250205)

Description: Bringing up the SIMS Admin Console with the Netscape browser causes the schema files to disappear from the `slapd.conf` file. The console rewrites the `slapd.conf` file, removing the following lines:

```
include "/usr/netscape/server4/slapd-<host>/config/sims-sisp.at.conf"
include "/usr/netscape/server4/slapd-<host>/config/sims-sisp.oc.conf"
include "/usr/netscape/server4/slapd-<host>/config/sims.at.conf"
include "/usr/netscape/server4/slapd-<host>/config/sims.oc.conf"
```

The old file is renamed `slapd.conf.old`.

Workaround: Restart `slapd` before starting the SIMS Admin Console:

```
# /usr/netscape/server4/slapd-<hostname>/stop-slapd
# /usr/netscape/server4/slapd-<hostname>/start-slapd
```

Fatal Error During Install (bug 4248148)

An error results when installing SIMS 4.0 using `setup-tty` with the `sims_setup.dat` file and the following options: Web Access, SDK, SDK documentation, SIMS 4.0 documentation, varmail, Sun Directory Services, remote LDAP host, and alternate LDAP Port.

You will receive an error similar to:

```
Jun 21 10:50:02 slim SUNWmail.ims.imta_dirsync[6399]: Cannot open
directory/file /etc/opt/SUNWmail/ims/ims.cnf: No such file or
directory

Jun 21 10:50:02 slim SUNWmail.ims.imta_dirsync[6399]: Fatal error
```

Note – After the error, installation proceeds and finishes successfully.

A `dirsync` cron job is set up by the `postinstall` script of `SUNWimimo` package. This job is set to execute at 10, 30 and 50 minutes every hour. The message store configuration file `ims.cnf` is created towards the end of install during the configuration phase. If the cronjob executes between the time the cronjobs are set up and the message store configuration file is created (usually between 8-10 minutes), this error will result.

Apart from the display on the console, this is not fatal and the next time the cron job is executed, it will succeed.

Some Directories Remain After Uninstall (bug 4267591)

After uninstalling SIMS 4.0, certain files associated with Web Access and Sun DS are not removed; hence, their directories are not removed. These files are co-packaged with SIMS 4.0 but are not really a part of the SIMS product. They reside in the following directories:

- `/var/opt/SUNWconn`
- `/opt/SUNWconn`
- `/opt/SUNWa`

You can remove these files and directories with the `rm -rf` command.

Installing SIMS with SunCluster Patch

SunCluster Patch will not work on systems with SIMS 4.0 with HA and the Netscape Directory Service (NSDS) unless the modifications described in this note are made to the SIMS and SunCluster configuration. The patch location is:

```
http://sunsolve.Central.Sun.COM/cgi/  
retrieve.pl?type=0&doc=patches%2F108109&zone_32=108109
```

Advantage of Applying SunCluster Patch

This patch contains a fix that enables the Netscape Directory Service probing feature. This feature allows the HA server to probe for the `slapd` process. In an event of `slapd` failure, the HA server will try to restart the service. If restart attempts fail, the service will be restarted on the backup node. This provides more directory service reliability.

▼ To Configure the SunCluster

These instructions describe the procedures for new SunCluster installations as well as how to modify existing installations. These instructions make extensive references to “Guidelines for Installing and Configuring SunCluster and High Availability,” Page 147 of the SIMS 4.0 Installation Guide.

1. **Install this patch on both cluster nodes.**
2. **Run `/opt/SUNWcluster/bin/hadsconfig` on both cluster nodes.**

Use “Create instance” if this is the first time running `hadsconfig`. Use “Edit instance” if you’ve already run `hadsconfig`.

Next to **Name of the instance:** enter `nsldap`

Next to **Base directory of product installation:** enter

```
/<shared-file-system>/NSDS/slapd-<ha-logical-hostname>
```

Use default values for other parameters of `hadsconfig`, and save the changes.

These parameters are shown in step 5 of “Guidelines for Installing and Configuring SunCluster and High Availability.”

3. If you have completed step 6 of “Guidelines for Installing and Configuring SunCluster and High Availability” in an earlier installation, undo the changes on both cluster nodes.

That is, make sure the line `method_timeout='hared -q nsldap -T stop'` exists in `/opt/SUNWcluster/ha/nsldap/nsldap_svc_stop`

Skip step 7 of “Guidelines for Installing and Configuring SunCluster and High Availability”.

4. Re-register and re-start both nsldap and SIMS data services.

Refer to page 152 of the SIMS 4.0 Installation Guide on how to register the Netscape directory service with the High Availability Framework. (If the data services have been registered, they need to be unregistered prior to being re-registered.) Replace steps 3-5 as follows:

3. Register the NSDS/HA service:

```
# /opt/SUNWhadf/bin/hared -s -r nsldap
```

4. Start the NSDS/HA service:

```
# /opt/SUNWhadf/bin/hared -y nsldap
```

5. Re-register the SIMS/HA service:

```
# /opt/SUNWhadf/bin/hared -r Sun_Internet_Mail -b /opt/SUNWimha/clust_progs -m START_NET=imha_start_net,STOP_NET=imha_stop_net -t START_NET=120,STOP_NET=30 -v 4.0 -d nsldap
```

Procedure for Removing the NSDS Data Service

Refer to page 155 of the SIMS 4.0 Installation Guide on how to remove the NSDS Data Service. Replace steps 3-4 with the following:

3. Stop the NSDS/HA service:

```
# /opt/SUNWhadf/bin/hared -n nsldap
```

4. Unregister the NSDS/HA service:

```
# /opt/SUNWhadf/bin/hared -u nsldap
```

Software Updates

This section describes known software limitations that are fixed and software updates that are introduced by the 05 revision of the SIMS 4.0 product patch.

Simple Family Account Implementation (bug 4280093)

Simple Family Accounts enhancements have been added to the Delegated Management Console.

Through the DM Console, an administrator has the ability to:

- Create, modify, or delete a Family Account
- Define or modify a family head
- Define or modify the services for each Family Account
- Define or modify the maximum family size
- Define or modify the maximum family quota
- Generate a Family Account report

Also through the DM Console, a family head has the ability to:

- Create, modify, or delete a family member
- Define or modify the services for each family member
- Generate a Family Account report

A set of command line interfaces has also been included. Through the CLI, a family head can add, modify, or delete a family member, and generate a Family Account report.

The imrestore Utility does not work on x86 (bug 4304155)

The `imrestore` utility does not work on the x86 platform. The following errors result:

```
* LOG [ERR]: Incorrect block number read
(11884434125920141313). Should have been 1
* LOG [ERR]: Restore failed..
```

IMAP LIST and LSUB Response does not Quote Some Folders (bug 4307474)

The LIST and LSUB commands do not check for an asterisk (*) or a percentage sign (%) in non-quoted folder names. If a folder name contains one or more of these characters, it is not listed in a LIST or LSUB response.

Cannot get Domain Name Information from ims_apop_authenticate (bug 4259469)

The `ims_apop_authenticate` function returns only the user name and not the domain name.

POP Client Hangs on Solaris 7.0 (bug 4291519)

The POP client hangs while downloading messages with attachments through the proxy.

Delegated Admin CGI Fails when the Distribution List is too Large (bug 4284501)

Once a distribution list gets to be too large, you cannot add any more users through the Delegated Management Console.

Domain Information table is not Getting Updated (bug 4292713)

When you access the Delegated Management Console as a delegated site admin, the domain information table gives values of unlimited even though there are values set for the domain.

Cannot Edit or Search for a User with a Space in the Last Name (bugs 4293068 and 4293075)

You cannot edit or search for a user with a space in the last name using the Delegated Management Console.

immonitor-queue Returns Improperly Formatted Information (bug 4294222)

The ^M characters in the message file cause `immonitor-queue` to generate improperly formatted output.

In Internet Explorer 5.0, the Distribution List Search Result is Displayed Abnormally (bug 4271514)

Create a new user, then subscribe to any number of distribution lists. Login to the Delegated Management Console using Internet Explorer 5.0, go to the “My Distribution List Subscriptions” page, then click **Search**.

The search result is displayed abnormally.

Toggle Button for “Show Advanced” and “Show Basic” does not Work (bug 4296392)

In the Delegated Admin, the toggle button on the Create Distribution List page to go from “Show Advanced” to “Show Basic” does not work.

Non-Active Status of Domains do not Work (bug 4295471)

The non-active status of a domain does not work; only active status works.

An Internal Error Occurs After Searching for all Users (bug 4278557)

Login to the Delegated Management Console, click the **Edit User** bar and enter an asterisk (*) in the Login ID field to bring up all users. After you click **Search**, an error message appears:

The server encountered an internal error and was unable to fulfill the request.

Changing the Password for siteadmin Breaks the Delegated Admin (bug 4296718)

Using `imadmin change user` to change the password for `siteadmin` breaks the Delegated Admin:

```
% imadmin modify user -D siteadmin -w secret -l siteadmin -A
userPassword:secret2

siteadmin@east.sun.com: password file modify failed.
```

At this point, it is possible to log into the SIMS Admin GUI, but you cannot log into the Delegated Admin.

The workaround is to change the permissions on `/etc/opt/SUNWmail/simsr.cnf` to 777 before running `imadmin modify user`, then changing the permissions back to 600 after you change the password.

imbackup -g Backs up all Users in the Message Store (bug 4286665)

If a backup group does not contain any users, `imbackup -g` backs up all of the users in the message store.

IMAP Clients Dump Core (bug 4295523)

An IMAP client (for example, Eudora PRO for Windows) dumps core when a user uses a variety of search parameters and filters.

imcheck Reports Incorrect Errors (bug 4298706)

The `imcheck` utility reports errors when there are no errors. This happens when there are many extra buckets for a particular day.

Family Account Heads Cannot Check Their Family Account Reports (bug 4301162)

Previously, report information (for example, the maximum number of users) was not shown in the Edit Properties page of a Family Account.

The following items have been added to that page:

- Billable User
- Maximum Number of Users
- Maximum Group Quota (in bytes)

In Family Accounts, `groupstatus:inactive` does not Work (but 4301743)

If a Family Account is marked as inactive with the `groupstatus:inactive` parameter, it is still possible to change various properties for that group, like its description, or to create, delete, and edit its members.

A Family Account and its Owner are not Created at the Same Time (bug 4301755)

When a Family Account is created using the `imadmin` CLI (`add mg`), the Family Account's owner is created but not the Family Account. The workaround is described below:

1. Create a new user who will be the owner of the Family Account:

```
.# imadmin add user -D siteadmin -w secret -l scott -F scott -  
L Tiger -W secret
```

- 2. Invoke `imadmin add mg` with the `-l` option, using the owner's UID as specified in the previous step. Additionally, some attributes need to be added to LDAP entry manually:**

```
# imadmin add mg -D siteadmin -w secret -G smith -l scott -A
"billableuser:cn=scott Tiger
(scott),ou=People,dc=Japan,dc=Sun,dc=COM,o=internet"
```

- 3. Modify the LDAP entry of the owner of the Family Account.**

```
# imadmin modify user -A
"memberofmanagedgroup:cn=smith,dc=Japan,dc=Sun,dc=COM,o=internet
"
```

Family Accounts are Created Beneath the Directory (bug 4302865)

The `imadmin CLI (add mg)` creates the Family Account directly underneath the directory rather than the groups entry. This positioning will cause some problems in the future when data is migrated.

`imaccessd` Dumps Core when Server Certificates have Expired (bug 4303035)

If the server certificate used by SIMS has expired, `imaccessd` dumps core each time an ssl connection is attempted.

The `imrestore` Utility does not Work with a Core File (bug 4258799)

The `imrestore` utility does not work with a core file. It will fail on a command similar to the following:

```
# imrestore -t 2 - < /net/<NFSServerName>/ore
```

Some New Users do not Appear in the imta Alias Database after a dirsync (bug 4299505)

For example, if you have 1 million users, and you run the `dirsync -F` command, about 10,000 of those users do not appear in the alias database.

The imquotacheck Utility Returns a Negative Byte Count (bug 4295466)

When running `imquotacheck` the total amount shown for the domain is a negative number. For example:

```
Domain Usage for xyz.com : -2118593267 Bytes
```

The Maximum Quota Size for a Family Account is Exceeded (bug 4300888)

The sum of the quota sizes for each family member can exceed the maximum quota size for the family account. When a family member's quota size is changed, the sum of all the quota sizes is not recalculated.

There are Missing Spaces in the imadmin Utility's Messages (bug 4301767)

The `imadmin add user` command yields an unknown error message:

```
# ./imadmin add user -D siteadmin -w secret -l user1 -F first -L last -W
secret -A memberofmanagedgroup:cn=smith,dc=Japan,dc=Sun,dc=COM,o=internet
setUserAttribute() null attr: Sun Internet Mail Server 4.0 Administrative CLI
user1@Japan.Sun.COM: user added.
```

Additionally, the `imadmin delete`, `imadmin modify`, and `imadmin purge` commands all have a missing space in their messages. For example:

```
# ./imadmin purge mg -D siteadmin -w secret -G smith -g0  
  
smith@Japan.Sun.COMmanaged group purged.
```

Notice the missing space before the word “managed.”

Korean to UTF-8 iconv Module is not Found (bug 4262729)

The Korean to UTF-8 iconv module is not found when called by name.

This bug has been partially fixed in the patch 05 revision. The following links should be made in `/usr/iconv/lib/` during install or as a workaround:

```
# ln -s ko_KR-iso2022-7%ko_KR-UTF-8.so ko_KR-iso2022-7%UTF-8.so  
# ln -s ko_KR-euc%ko_KR-UTF-8.so ko_KR-euc%UTF-8.so
```

The `ims_master` Utility Dumps Core on a Malformed MIME Message (bug 4301760)

The `ims_master` utility dumps core when it attempts to deliver a malformed MIME message.

New Domains are not Processed (bug 4279442)

A domain created by the admin CLI (`imadmin create domain`) does not have the `mailhosts` attribute and are therefore not picked up by the `imta dirsnc`.

The `imexportmbox` Utility Dumps Core (bug 4293702)

The `imexportmbox` utility dumps core during migration. However, the same mailboxes can be backed up using the `imbackup` utility.

Text for a Checkbox on the Forward Page is Misleading (bug 4304710)

On the Forward page of the Delegated Management Console, the text for the following checkbox is misleading:

- Deliver a copy to INBOX when forwarding

This portion of the GUI has been changed and now contains three separate checkboxes:

- Forwarding On
- Forwarding Off

- Deliver a copy to inbox when forwarding e-mail
(Automatically selected if "Forwarding Off" is chosen)

Deletion of a User or Distribution List Yields Error Messages in the Delegated Management Console (bug 4305238)

If you try to delete a user or a distribution list as the delegated administrator in the Delegated Management Console, you will receive error messages and the operation will fail. The workaround is to use the `imadmin` tool.

Additionally, the Delegated Management Console always shows “unlimited” for the following domain entries:

- Disk quota
- Maximum number of entries
- Number of email accounts purchased

Abnormal Expression for the “Get Current Connection” Button (bug 4260853)

In the Message Access section of the Administration Console, select “Both Connection” at the “Get Current Connection” button. An IMAP4 connection is expressed, but the connection button reads “IMAP4 Connection” when it should be “Both Connection.”

The imedit Command Dumps Core (bug 4251689)

If the `imedit` command is run (by either the super-user or a normal user) when the `EDITOR` environment variable is empty, the `imedit` command dumps core. You are prompted to enter the name of an editor, but no entry is accepted and `imedit` dumps core.

The siteadmin's Password is Revealed when imdelegatedmd is Run From the Command Line (bug 4264225)

When `imdelegatedmd` is run from the command line, a line similar to the following appears in the output, revealing the `siteadmin`'s password:

```
: LDAP_DN_PASSWORD =                secret
```

Users Cannot Send Mail Because ALLOW_RECIPIENTS_PER_TRANSACTION is Being Set to Zero (bug 4251433)

The default value of the `ALLOW_RECIPIENTS_PER_TRANSACTION` parameter should be 32767. However, it is showing 0 in the 'Reject Msgs if no. of recipients exceeds' field in the channel propertybook.

Thus, when you change anything in the channel propertybook, be sure that 'Reject Msgs if no. of recipients exceeds' is set to 32767 or some other appropriate number.

Administration Console Does Not Check for Existing Group Addresses (bug 4252433)

Suppose you create a group using the `imadmin-create-group` command. If you do a search on this group, parentheses () are incorrectly inserted at the "cn" entry.

Then, you can login to the Administration Console and create another group with the same name, thus having two groups with the same name. Furthermore, once this occurs, you are unable to edit either one.

Delegated Management Console Sometimes Fails to Add a User to a Distribution List (bug 4263879)

When adding users to a distribution list, it is sometimes not possible to add a user to the list. This occurs when the ID of the user you are trying to add matches a portion of an existing user's ID; for example, if user "josephine" already exists in the distribution list, then it is not possible to add a user "joseph" because it matches a portion of "josephine."

A User with a Password of Less Than Four Letters Cannot Change His/Her Own Password (bug 4267177)

In the Delegated Management Console, a UNIX user who has a password containing less than four characters cannot change his/her own password.

Backup/Restore Takes up too much Disk Space (bug 4272757)

If you send an email to multiple users, a single copy of that message is stored. If you backup this message and then attempt to restore your mailbox, additional memory is allotted for the storage of this same email message. The problem is that when a message is deleted and purged, `imrestore` does not reuse the same `idir` entry and is therefore unable to preserve the single copy characteristic.

Messages Containing Signed Attachments are Corrupted (bug 4259935)

If you use SIMS to store MIME messages, then some messages are not displayed correctly when they are downloaded.

imadmin-purge-user Does Not Work When Using ims-bind (bug 4272371)

The `imadmin-purge-user` utility does not work when using `ims-bind`. This is the case for both the default domain's user and a virtual domain's user.

The workaround is to add the following line to the `ims.cnf` file:

```
ims-bind-address: localhost
```

This instructs `imaccessd` to listen on the address `127.0.0.1`, which `imdeluser` uses to connect to IMAP and delete the mailbox

Virtual Domain Users Cannot Use Calendar (bug 4251613)

The Calendar function is unavailable to virtual domain users (no Calendar icon appears).

User or Administrator is Unable to Forward Mail (bug 4256813)

A user or the administrator is unable to forward mail to the alias of a person within their domain.

imaccessd Allows the User to View the Entire Disk (bug 4258547)

If a user is created with `/var/mail` instead of the mail server, the user can telnet to the server and view the entire system with the following command:

```
list / *
```

imimportmbox Delivers Non-Compliant Messages to the Store (bug 4195022)

The `imimportmbox` utility delivers messages that are not RFC 822-compliant to the message store.

imimportmbox Command Changes the Content-type (bug 4261216)

The `imimportmbox` utility automatically changes the Content-type of the mail message to `charset=us-ascii`:

```
Content-Type: text/plain; charset=us-ascii
```

imquotacheck Erroneously Returns Error Code 70 (bug 4232945)

The `imquotacheck` program returns error code 70 (`EX_SOFTWARE`) even though the operation was successful. It should return `EX_OK`.

impurge Corrupts the indexdir Record After Running imexpire -s (bug 4280551)

When the admin runs `imexpire` with the `-s` option, it sets the `indexdir` record `in_use` to 0 if it has not been read by the user. However, the `impurge` is supposed to reset `indexdir` to `in_use`, causing it to overwrite the next record.

SMTP Header String Contains the Incorrect Patch Version Number (bug 4281797)

The SMTP Header String in patch 03 contained the incorrect patch version number. See the last line in the sample below:

```
Received: from tiger.hi-ho.ne.jp (tiger.hi-ho.ne.jp [129.158.60.210])
by simsosaka0.hi-ho.ne.jp
(Sun Internet Mail Server sims.4.0.1999.10.12.12.11.p2)
```

Note that “p2” should be “p3”.

sims-ms.dat and sims-ms.idx are Hard-Coded File Names in ims_master (bug 4280610)

The `ims_master` file contains hard-coded file names `sims-ms.dat` and `sims-ms.idx`.

imadmin Cannot be Invoked Without Either the -w or -W Option (bug 4280234)

The `imadmin` command cannot be invoked without either the `-w` or `-W` option.

After Timing Out, Doing a Search on a Distribution List Causes the DM to Core (bug 4278878 and 4278665)

After logging in to the Delegated Management (DM) Console as a user and waiting for the system to time out, the DM Console crashes if you try to do a search on a distribution list by clicking on either the “Edit Distribution List” or “My Distribution List Subscriptions” tab.

Incremental Alias Synchronization Schedule Yields Erroneous Error Messages in the Admin Console (bug 4245824)

In the Administration Console, if you select **Admin Console->IMTA->Incremental Alias Synchronization Schedule** and perform the following:

- Change the status to Active then click **Apply**
- Change the status back to Inactive then click **Apply**

you will receive the following error message: "The Incremental dirsync task was not created by admin server, it was manually added to the crontab. Can not save the changes." even though no manual changes were made.

Domain Quota Limits are not Enforced (bug 4295401)

Domain Quota Limits are not enforced in this version of the product due to the following technical issues and performance trade-offs:

- The `ldapsrv` does not support transaction locking; therefore, the quota counts are subject to race conditions and may not be accurate.
- The operation of the DM is hampered. When a user logs in, the DM counts the number of users and distribution lists in the directory by searching for all of them. If there are a lot of users, this can take a considerable amount of time. Additionally, as the number of users approaches the quota limit, the DM recounts the number of users.

The imta dirsync Takes a Long Time When Migrating from SIMS 3.5 to 4.0 (bug 4279420)

The `lookthroughlimit` attribute cannot handle a value of "-1"; if this attribute is set to "-1", the indices will be skipped. By default, this value should be set to at least 50,000. This attribute is located in the `slapd.ldbm.conf` file.

Additionally, there is an existing bug with case sensitivity of the attribute names in `slapd.ldbm.conf`. Directory Server `slapd` cannot distinguish the difference between `modifytimestamp` and `modifyTimeStamps`.

immonitor access Does not Work When the -u option contains a Hostname (bug 4267618)

The `immonitor access` command can be invoked using `-u uid@hostname.domain` only when the "mail" or "rfc822mailalias" LDAP attributes contain the same `uid@hostname.domain` value.

For example, assume that "fujitani" is the hostname and "mydomain.com" is the DNS fully qualified domain name. First, check the values for "mail" and "rfc822mailalias":

```
# /opt/opt/SUNWconn/bin/ldapsearch -b o=internet uid=siteadmin
rfc822mailalias mail
```

```
cn=Site Administrator,ou=People,dc=mydomain,dc=com,o=internet
mail=siteadmin@mydomain.com
rfc822mailalias=siteadministrator@fujitani.mydomain.com
```

Given this information, the following would work:

```
# /opt/SUNWmail/sbin/immonitor access -u siteadmin@mydomain.com
-L fujitani.mydomain.com
```

```
# /opt/SUNWmail/sbin/immonitor access -u
siteadministrator@fujitani.mydomain.com -L fujitani.mydomain.com
```

However, the following would not:

```
#/opt/SUNWmail/sbin/immonitor access -u
siteadmin@fujitani.mydomain.com -L fujitani.mydomain.com
```

Neither the "mail" nor the "rfc822mailalias" contain an entry for "siteadmin@fujitani.mydomain.com" in the LDAP directory on fujitani.mydomain.com on port 389.

External List Member is not Clearly Deleted by the DM Console (bug 4283824)

The last external member of a distribution list is not completely deleted by the DM Console. If you create a distribution list with all external members, then use the DM Console to remove them one by one, everything seems to work properly; no warning messages are displayed. However, upon reverting back to the Administration Console, the last member in the list still remains.

Delegated Manager will not process the delete operation if there are illegal characters at the end of entry. This problem can be resolved by removing the extra <CR>, space, or tab trailing the last member of the distribution list.

Creating Groups with only External Members/ Removing all Internal Members from a Group (bug 4261934)

The Administrator cannot create a group containing only external members. If this user attempts to do so, he/she will receive the “Create group failed” message.

Additionally, the administrator cannot remove all internal members from a group. If this user attempts to do so, he/she will receive the “Failed to add/modify entry” message.

The workaround to these problems is to modify the `groupOfNames` section in the `slapd.cc.conf` file and removing a required attribute so that it reads:

```
objectclass groupOfNames
    requires
        cn,
        objectClass
    allows
        member,
        businessCategory,
        description,
        o,
        ou,
        owner,
        seeAlso
```

imbackup Does Not Backup Shared Folders (bug 4267595)

The `imbackup` utility does not backup Shared folder. For example, take the following command:

```
# imbackup -f /tmp/backup -u /tmp/username
```

where `/tmp/username` is a group members list who used the Shared folder. After invoking `imrestore`, the group members' Inboxes are restored, but the Shared folders are not.

To workaround this problem, use distribution lists instead of Shared folders.

Logging File Systems and SIMS (bug 4247511)

A logging file system is a computer file system that contains its own backup and recovery capability. Before file indexes on disk are updated, the information about the changes are recorded in a log. If a power or other system failure corrupts the indexes as they are being rewritten, the operating system can use the log to repair the indexes when the system is restarted.

SIMS supports two logging file systems, Veritas VxFS and the UFS logging file system. The advantages of using a logging file systems in SIMS are:

- If a message is being written to a folder, and if the system crashes during the write, the folder can be corrupted due to a partial write to disk. Using a logging file system prevents such a partial write.
- When the system crashes or if `imaccessd` is terminated abnormally (for example, by using `kill -9`) you are required to run `imcheck -c` to check and repair message store corruption. This must be done before restarting SIMS. All the SIMS processes must be shut down while `imcheck -c` is running. This can result in hours of downtime. With a logging file system, you are not required to run `imcheck -c` after a system crash or abnormal termination. There is no downtime.

The disadvantages of using a logging file systems in SIMS are:

- Message store performance may be somewhat affected due to file logging overhead.

How to Create an ETRN Queue Channel (bug 4245523)

An ETRN Queue Channel can reduce SIMS computational overhead for domains without permanent connections to the mail server. SIMS enqueues messages for disconnected domains and delivers them when the domain client connects to SIMS and sends an SMTP ETRN <client_domain> command (see RFC 1985—www.rfc-editor.org). The problem is that by default, SIMS continues attempting delivery of the domain's messages at regular intervals, even though the only time the messages can be delivered is when the domain client is connected. These unsuccessful delivery attempts generate non-delivery messages and waste computational resources.

By creating an ETRN Queue Channel for each domain, messages to that domain are stored in the channel and no delivery attempt is made until the domain client sends an ETRN command.

To create an ETRN Queue Channel, you must create a rewrite rule and a channel for each domain which will be using ETRN. The rule will cause the mail to be routed to the appropriate channel. The mail will be held in the channel until the client connects and retrieves it.

The rewrite rule should be like the following:

```
domain1.com  $E$U%$D@tcp_etrn_dom1-daemon
```

The new channel should have the same settings as the tcp_local channel but also include the `slave` keyword, and possibly change the `notices` keyword:

```
! tcp_etrn_dom1
tcp_etrn_dom1 smtp single_sys subdirs 20 copywarnpost
copysendpost postheadonly immonurgent noreverse logging
notices 1 2 4 7 blocklimit 10240 charset7 US-ASCII charset8
ISO-8859-1 slave
tcp_etrn_dom1-daemon <fully qualified SIMS host>
```

(note: the `tcp_ertrn_dom1 smpt single_sys...` line above should be all one line, but may appear to be on separate lines because of its length.)

Separate channels are required for each domain because when a client issues the ETRN command, the IMTA will attempt to deliver all messages pending in the channel.

For SIMS 4.0, you can have a single ETRN Queue Channel holding the messages for multiple domains. However, the client must issue the ETRN command in the following form:

```
ETRN @<client_domain>
```

If the client issues this command without the @, then SIMS will attempt to deliver all the messages in the channel.

The `slave` keyword prevents the IMTA from attempting to deliver the mail. The messages will be delivered only when the client connects and issues the `ETRN` command. See the SIMS 4.0 Reference Guide page 102 for additional information on the `slave` keyword.

The `notices 1 2 4 7` keyword specifies when warning messages should be returned to senders to let them know that the message is still in a queue waiting to be delivered. Depending on how frequently the remote system will connect to retrieve mail, you may want to increase these values. See the SIMS 4.0 Reference Guide page 108 for additional information on the `notices` keyword.

SMTP AUTH Does Not Support Virtual Domains (bug 4255082)

When using SMTP AUTH, the same mechanism that is used by the Message Access to retrieve a user's credentials in the directory is used when interpreting the identity in the AUTH command issued by the client. In particular, the domain from IP mechanism uses the same set of parameters in `/etc/opt/SUNWmail/ims/ims.cnf`.

SMTP AUTH Supports CRAM-MD5 (bug 4255082)

SMTP AUTH now supports CRAM-MD5 SASL mechanism with the following restrictions:

- When using Sun Directory 3.1, the passwords of the users have to be stored in the directory in clear or using the `{sunds}` encryption (default).
- When using the Netscape Directory, the passwords have to be stored in clear text in the directory.

To turn on the CRAM-MD5 mechanism, set the following option in `/etc/opt/SUNWmail/imta/option.dat`:

```
SMTPAUTH_USECRAMMD5=1
```

Adding SMTP over TLS to SIMS

This section describes how to add SMTP over TLS to SIMS.

Overview

As defined in RFC 2246, the primary goal of the Transport Layer Security (TLS) protocol is to provide privacy and data integrity between two communicating applications. The TLS protocol itself is based on the SSL 3.0 Protocol Specification as published by Netscape. SIMS 4.0 is compliant with SSL 3.0. There are some differences between TLS 1.0 and SSL 3.0 but TLS 1.0 does incorporate a mechanism by which a TLS implementation can back down to SSL 3.0. In the following, we will talk about TLS and not SSL.

For an overview of SIMS implementation of SSL, see the Chapter 11 of SIMS 4.0 Administrator's Guide, "Secure Sockets Layer (SSL) Support in SIMS."

There are two modes of operation that the SIMS IMTA supports:

- Connecting to a TLS enabled port where TLS negotiation happens immediately once the TCP connection has been established.
- Connecting to a "regular" port and then issuing a `STARTTLS` (RFC 2487) command to begin TLS negotiation.

The only difference between these two modes is when the TLS negotiation begins. In both cases, once the TLS negotiation is complete, all subsequent data sent across the TCP connection will be secure.

Connecting to a special port number is one way to connect to a TLS enabled server. SMTP has an established port for use with TLS (port 465). When a client connects to this special port (as configured in the Dispatcher configuration file), the IMTA will immediately begin TLS negotiation. Once the negotiation is complete, the connection will be given to the service as usual.

If a `STARTTLS` command is used, the TCP connection is established on the usual port number (or an alternate port number if configured in the Dispatcher) and given to the service normally. If TLS is available to the client in this SMTP session, the server will advertise `STARTTLS` as one of its available SMTP extensions. The client will then issue the `STARTTLS` command, and the server will acknowledge receipt of the SMTP command and instruct the client to begin TLS negotiation. Again, once the negotiation is complete, the connection continues normally.

If connecting to a special port is largely widespread for IMAP or POP protocols, the `STARTTLS` command is a better and more flexible choice for SMTP.

Security Layer Configuration

The security layer can be configured on the server or client side.

Server Side Configuration

If you plan to use only the server side of STARTTLS (the server accepts the STARTTLS command but never issues it), or if you want to use the special port, the step by step configuration of TLS/SSL is described in the chapter 11 of SIMS 4.0 Administrator's Guide, "Secure Sockets Layer (SSL) Support in SIMS." If SSL was configured for IMAP/POP, no additional step is needed.

Configuration SMTP Over TLS

This section describes how to configure SMTP over TLS.

Dispatcher Related Configuration For Alternate Port Numbers

By default, the `dispatcher.cnf` file has an SMTP service definition that looks something like:

```
[SERVICE=SMTP]
PORT=25
...
```

To enable TLS for such a dispatcher service, you simply add a `TLS_PORT` option to the configuration for that service. For example, to add TLS support on port 465 for SMTP (the established port for SMTP TLS use), you'd use:

```
[SERVICE=SMTP]
PORT=25
TLS_PORT=465
...
```

Once the dispatcher configuration modifications are complete, you must restart the dispatcher (if it is currently running) or start it (if it is not currently running) so that the new dispatcher configuration with the new port numbers takes effect.

TCP/IP channel configuration for TLS use (STARTTLS)

SIMS supports a number of keywords on the TCP/IP channels to control whether TLS functionality is desired or required. These keywords are summarized in the following table:

TABLE 1 TLS Channel Keywords

Keyword	Usage
<code>notls</code>	The combination of <code>notlsserver</code> and <code>notlsclient</code> ; this is the default
<code>maytls</code>	The combination of <code>maytlsserver</code> and <code>maytlsclient</code>
<code>musttls</code>	The combination of <code>musttlsserver</code> and <code>musttlsclient</code>
<code>notlsserver</code>	Do not offer the STARTTLS extension and do not accept a STARTTLS command from a remote client
<code>maytlsserver</code>	Offer and accept STARTTLS (if not already TLS enabled)
<code>musttlsserver</code>	Offer and require STARTTLS (if not already TLS enabled); if TLS has not been negotiated, refuse to accept any mail during this session with a “530” error
<code>notlsclient</code>	Do not attempt to use STARTTLS even if offered by a remote SMTP server
<code>maytlsclient</code>	If STARTTLS is offered by a remote SMTP server, attempt to use TLS
<code>musttlsclient</code>	Use STARTTLS if offered by a remote SMTP server, but if not available, this message delivery will be aborted
<code>tlsswitchchannel channelname</code>	If TLS is used, switch to the channel specified as the <code>channelname</code> parameter to this keyword

Enabling (or requiring) the use of TLS may be of interest with dedicated channels intended for communicating sensitive information with companion systems that also support TLS.

Enabling the use of TLS for the SMTP server may also be of particular interest when SMTP SASL use has been enabled. Since with SMTP SASL use, a remote client will be sending a password over the network, then, especially if the PLAIN authentication mechanism is used (password sent “in the clear”), it may be particularly desirable to use TLS so that the entire transaction, including the password, is encrypted.

Use of the `tlsswitchchannel` keyword may be of interest for logging purposes, so that log entries show the message as coming in via a special channel. Use of the `tlsswitchchannel` keyword may also be of interest if it is desired to route messages submitted using TLS differently (using source channel specific rewrite rules) than messages submitted without TLS.

About the Switchchannel Keywords

In the following examples, we make an extensive use of the `switchchannel/``tlsswitchchannel/``saslswitchchannel` keywords. Those keywords allow you to switch the source channel of a connection. Switching the source channel means that all the messages submitted by the user will be seen (in terms of logging or access control) as coming from the new source channel. Another effect of switching the source channel is that all the keywords associated with the old source channel are forgotten and the ones associated with the new channel apply. For example, if the `tcp_local` channel definition contains the `musttlserver` keyword but the user is switched to `tcp_intranet`, which doesn't contain this keyword, the user won't have to use TLS.

If the `switchchannel` is configured in the `tcp_local` definition (see SIMS 4.0 Reference Guide, "Selecting an Alternate Channel for Incoming Mail" page 118), it is applied first, at the beginning of the connection. For the other `switchchannel` keywords, they are taken into account in the order the corresponding commands are issued.

Sample TLS Configurations

The following three examples describe how to configure TLS.

Example 1

A site that has a submission SMTP server reserved for its own subscribers and has the following policy:

- Any subscriber connecting from outside the intranet must use TLS.
- Any subscriber connecting from inside the intranet may use TLS.

The system can be configured as follows (only the main keywords are shown):

in `imta.cnf`:

```
tcp_local smtp switchchannel musttlserver tlsswitchchannel tcp_tls
tcp-daemon

tcp_intranet smtp mx single_sys maytlserver tlsswitchchannel tcp_tls
tcp_intranet-daemon

tcp_tls smtp mx single_sys musttlserver
tcp_tls-daemon
```


A subscriber trying to connect from `tcp_local` must issue the `STARTTLS` command in order to be able to send a message (`musttlserver` keyword). If the command succeeds, the user is switched to the `tcp_tls` channel (`tlswitchchannel tcp_tls` keyword), every message submitted by this user will be seen as coming from the `tcp_tls` channel (for logging as well as access mapping purpose).

A user trying to connect from the site's intranet will be first switched from `tcp_local` to `tcp_intranet`. Consequently, `STARTTLS` is offered to him, but he doesn't have to use it (`maytlserver` keyword). If he issues the `STARTTLS` command, he will be switched to `tcp_tls`.

Of course a publicly referenced SMTP server (MX recorded) shouldn't use this kind of configuration.

Example 2

A site that generally blocks SMTP relaying through their SMTP server, but wishes to allow such SMTP relaying for specific users who will authenticate themselves using SASL (SMTP AUTH), might use channel definitions similar to these given below. This type of configuration is particularly appropriate for sites wanting to allow roaming users to keep relaying mail through their domain's mail server, while preventing other users to do the same.

In `imta.cnf`:

```
tcp_local smtp mx single_sys maysaslserver sasls witchchannel tcp_auth
tcp-daemon

tcp_auth smtp mx single_sys mustsas lserver
tcp-auth-daemon
```

with an `ORIG_SEND_ACCESS` mapping table (`/etc/opt/SUNWmail/imta/mappings`) like this:

```
ORIG_SEND_ACCESS

tcp_local|*|tcp_local|* $NRelaying$ not$ permitted
```

For details about using SASL, see `SMTP AUTH Configuration` on page 140 of the `SIMS 4.0 Administrator's Guide`.

The problem with this configuration is that clients will use the `PLAIN` mechanism to authenticate. The `PLAIN` mechanism implies that user passwords are sent in clear text. Passwords should never be sent in clear text in an untrusted environment unless over `TLS`.

The same configuration with TLS would look like this:

In `imta.cnf`:

```
tcp_local smtp mx maytlsserver tlsswitchchannel tcp_tls
tcp-daemon

tcp_tls smtp mx musttlsserver maysaslserver saslswitchchannel tcp_auth
tcp_tls-daemon

tcp_auth smtp mx mustsaslserver musttlsserver
tcp-auth-daemon
```

with an `ORIG_SEND_ACCESS` mapping table
(`/etc/opt/SUNWmail/imta/mappings`) like this:

```
ORIG_SEND_ACCESS

tcp_auth|*|*|* $Y
tcp_*|*|tcp_local|* $NRelaying$ not$ permitted
```

A client connecting from the `tcp_local` channel issues the `EHLO` command. The server offers `STARTTLS` (`maytlsserver` keyword in `tcp_local` definition) but not `AUTH` as an extension. The client issues the `STARTTLS` command and is switched to the `tcp_tls` channel (`tlsswitchchannel tcp_tls` keyword in `tcp_local` definition).

Then, it issues a new `EHLO` command. At this point, since the `maysaslserver` keyword is configured for the `tcp_tls` channel, the server offers `AUTH` in the available extensions. If the client authenticates successfully, it is switched to `tcp_auth` (`saslswitchchannel tcp_auth` keyword in `tcp_tls` definition) and the `ORIG_SEND_ACCESS` rules apply from this channel.

Example 3

Three companies (a.com, b.com, and c.com) want to exchange secure information over the Internet. They want to use TLS when sending messages to each other but not when talking to any other domain. A sample configuration for a.com could be:

In `imta.cnf`:

```
! Rules to select local users
a.com    $E$U$D@myhost.a.com
! My buddy rules
b.com $E$U$D@tcp_tls-daemon
c.com $E$U$D@tcp_tls-daemon
! Rules for top level internet domains
</etc/opt/SUNWmail/imta//internet.rules
. $E$U$H@tcp-daemon
...

l noswitchchannel...
myhost.a.com

tcp_local switchchannel smtp mx maytlsserver tlsswitchchannel tcp_tls
tcp-daemon

tcp_tls smtp mx musttlsserver musttlsclient
tcp_tls-daemon
```

A message for `user@toto.com` matches a rule in `internet.rules` (`.com UH$D@tcp-daemon`) and goes into the `tcp_local` channel from which it will be sent without using TLS.

A message for `user@b.com` matches the (`b.com EU$D@tcp_tls-daemon`) rule and consequently is routed to the `tcp_tls` channel. The `tcp_tls` channel definition contains the `musttlsclient` keyword. When the message is finally sent to `b.com` mailserver, the `tcp_smtp_client` must use `STARTTLS`.

Incremental dirsync Misses Entries (bug 4164655)

When using a remote directory, if the time of the directory server and the SIMS server are not synchronized, it is possible that incremental dirsync might not pick up all changes in the directory. In such cases, these changes will be reflected in the MTA tables only after the next full dirsync.

New Option for imquotacheck

A new command line option has been added to the `imquotacheck` utility. The `-m` option allows the administrator to customize the quota warning message. The syntax for the `-m` option is:

```
-m <msg-file>
```

where the `<msg-file>` variable represents the file name of the quota warning message. The `<msg-file>` must contain a valid message header and a message body. Every line must be terminated with a CRLF. Required header fields must be present. The following macros can be used inside the message body (`imquotacheck` replaces the macros with the user's information before it delivers the message):

<code>\$DATE</code>	Current date in RFC 822 format
<code>\$STOREOWNER</code>	Message store owner
<code>\$USERID</code>	User's message store userid
<code>\$QUOTA</code>	User's quota limit
<code>\$PERCENT</code>	Percent used
<code>\$USAGE</code>	Current disk usage for user

The following is an example `<msg-file>` (`quota.msg`):

```
Date: $DATE
From: $STOREOWNER
TO: $USERID
Subject: WARNING: LOW QUOTA
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII

Dear $USERID,

Your total mailbox size has exceeded $PERCENT% of the assigned
quota:
Mailbox size = $USAGE
Quota = $QUOTA

Thanks for using our email server.

Your email administrator
```

Using the above `quota.msg` file, the following command can be executed:

```
# imquotacheck -u joe -m quota.msg
```

The following is the example output:

```
Date: Mon, 23 Aug 1999 14:58:07 -0700 (PDT)
From: inetmail
TO: joe
Subject: WARNING: LOW QUOTA
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII

Dear joe,

Your total mailbox size has exceeded 100% of the assigned quota:
Mailbox size = 5039
Quota = 5000

Thanks for using our email server.

Your email administrator
```

Web Access Updates

This section describes the updates for the Web Access client.

Autoresponder for Vacation Mail Creates Non-Compliant MIME Messages (bug 4281880)

When a user's vacation mail is set and enabled, sending mail to this user creates a mail message issued by the autoresponder which does not contain the MIME-version header for the message, making it a non-compliant MIME message.

Login Separator Inconsistency (Bug 4250347)

In the case where Web Access and SIMS are installed on the same system at the same time, the SIMS installation mechanism configures the separator for both Web Access and SIMS. The only way the separator can be different in this case is if the administrator intentionally changes it after installation.

In the case where SIMS and Web Access are installed on separate systems or at different times, the SIMS installation GUI is used to install both components and configure the separator for both. The administrator can specify different separators in this case.

If the login separators are different for SIMS and Web Access, a user may be able to successfully log in to Web Access, but cannot read mail.

Enabling Instances via SWS2.1 (Bug 4250317 and 4250498)

In order to start and stop the Web Access server using the `htserver` command, the instances must be enabled via the SWS2.1 (Sun Web Server):

```
# htserver enable sws_server
# htserver enable admin
# htserver enable WebAccess
```

You may now stop and start Web Access:

```
# htserver stop WebAccess
```

```
# htserver start WebAccess
```

Starting and Stopping Web Access

You can start and stop the Web Access server using the `webaccess start` and `webaccess stop` commands (using SIMS 4.0).

To stop the Web Access server:

```
# /etc/init.d/webaccess stop
```

To start the Web Access server:

```
# /etc/init.d/webaccess start
```

Known Bugs for SIMS4.0 Zh Version:

Garbled Characters in Uninstall Process (Bug 4318920)

If you uninstall SIMS from zh locale, some characters get garbled. Work around: Uninstall SIMS4.0 on C locale or ignore the garbled characters.

Cannot Select Channel Type When Creating a New Channel (Bug 4322191)

When creating a new channel from IMTA, the channel type cannot be selected. Work around: No work around exists.

Cannot Open the LDAP Statistics Window (Bug 4320949)

From Admin console, goto Sun Directory Service, then click "Show Statistics" button. It will throw the java.lang exception error. Work around: No work around exists.

Problems in Sending Chinese Mail (Bug4331539)

There is a problem when handling mail with Chinese characters on zh locale. Work around: Stop the web access, change to C locale, start web access again.

The Day String in Chinese is Incomplete in Calendar Day and Year View (Bug 4330099)

On calendar day and year view, since the day string length is limited, the day in Chinese string get cut off. Work around: No work around exists.

Subject Disappears if Sending a Mail with More Than 22 Chars on Subject Field (Bug 4347889)

When sending a mail with more than 22 Chinese characters in the subject field, the subject will disappear on the receiving mail box. It will cause problems in opening the mail. Work around: Ensure that the subject field has less 22 Chinese characters

Default Auto Reply Message is Missing if a User is Created From the Admin Console (Bug 4349353)

Create a user from Admin console. Logon the new user to delegated admin. The default auto reply message is missing. Work around: Create the message, then save it.

