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# Introduction

Thank you for choosing SpaceGuard SRM

**Windows Disk Quota Management**

## White Papers & Reviews
- Product Brochure
- Return on Investment White Paper

## How To Buy
- How To Order
- Pricing and Licensing

## Product Demos
- Auto-Add quota video demo
- User Assignment video demo

## Documentation
- SpaceGuard SRM versus Windows Quotas
- Ask Tools4ever

## Installation
- Installing SpaceGuard SRM
- 10-minute Quickstart Guide
- Demo & Purchase License

## Configuring Quotas
- Add Directory Quota
- Manage Quota Policies
- Auto-Add Quota Overview

## Tips & Tricks
- Volume 1: Put SmartQuota to use
- Volume 2: Policy based Auto-Add quota
- Volume 3: Delete illegal content
Release Notes

Features

Version 6.0 (1106), April 14, 2005
1. CLI: Edit quota has been added to the command line interface.

Version 6.0 (1101), March 4, 2005
1. Console: A service installation wizard has been added.
2. Console: A service message log bar has been added.
3. Console: User assignment configuration dialog has been changed to a tabbed dialog.
4. Quotas: User Assignment can be reevaluated on a specified interval.
5. Licensing: Ability to change the licenses for multiple computers added.
6. Licensing: New licenses can be automatically be propagated through the domain.
7. CLI: The Command Line Interface has been updated to reflect the new license options, including propagation.

Version 6.0 (1098), January 14, 2005
1. General: Filter file extensions using the new filter driver.
2. General: Added Quota Query Tool
3. Quotas: Revoke access can now revoke access for multiple users.
4. Quotas: Multiple users/groups can be linked to a quota. (Popup, Email en revoke access accept multiple users separated by commas)
5. Quotas: A new keyword has been added "%GROUP_MEMBERS_EMAIL%". This keyword will resolve the email addresses of the users that are member of the group(s) linked to the quota.
6. Quotas: Include users and groups based on name/type and rights from the ACL.

Version 5.4 (1090), November 12, 2004
1. Console: The SpaceGuard SRM console user interface has been restyled to provide a better experience when working with quotas.

Version 5.4 (1087), September 17, 2004
1. Console: Added an Auto-Add list to the quota overview.
2. Quotas: Added an import quotas from and export quotas to CSV file feature.
3. Alarm actions: Added option to specify event log entry type. (Error, warning or informational)
4. Console-Service: Centralized policies added. Policies can now be stored locally and remote on the SpaceGuard SRM service.
5. CLI: Quotas and Auto-Add quotas can now be created using a policy from either a file or the policies stored on the service.
6. CLI: Quotas can now be exported to a CSV file.

Version 5.4 (1084), May 17, 2004
1. Quotas: The option to automatically filter out specific user accounts or groups from the user resolve mechanism has been implemented.

Version 5.4 (1080), April 9, 2004
1. Cluster support: Full support for Windows Server 2003 clustering in either active-passive or active-active configurations including automatic fail-over detection and quota handling.

Version 5.4 (1078), February 25, 2004
1. Quotas: Automatic link between quota and user. SpaceGuard SRM uses the Active Directory, permissions on the folder, owner or the folder name to determine the quota associated user account. When using this new feature, the target for popup, smtp/mapi email and revoke access is automatically configured by default.
2. **Quotas**: Quota export to a CSV file. When using this feature, SpaceGuard SRM will always export all quotas.

3. **Alarm actions**: Alarm actions can contain keywords from the Active Directory. When combined with the automatic quota link, SpaceGuard SRM can show all Active Directory user attributes for the current quota user in alarm actions.

4. **Alarm actions**: Alarm action debug logging for diagnostic purposes. These messages are stored in SpaceGuard SRM's own log file (sgsvc.log), inside the service directory.

5. **Unattended installation**: Remote installation/uninstallation of the service using the SgSRMCLI.EXE command line tool.

6. **Network browse tree**: Added the "recent" branch which automatically populates with computers recently used in SpaceGuard, and tooltips for servers.

**Version 5.3 (1067), November 13, 2003**
1. Support added for **Microsoft Cluster (MSCS)**. SpaceGuard SRM is now a cluster aware application. (1061, 10-10 2003)
2. Power User mode added. The SpaceGuard SRM service now supports four types of access: Administrator, Operator, Power User and User. (1061, 10-10 2003)
3. **Command Line Interface** and **API** has been added. (1061, 10-10 2003)
4. A copy function has been added to the policy management dialog. (1061, 10-10 2003)
5. **SgFS** utility added. This utility can analyze and revert the file system back to its original state (1061, 10-10 2003)

**Version 5.2 (1053), August 29, 2003**
1. Support for **MAPI Email** has been added. SpaceGuard is now able to send out email messages to MAPI compliant servers such as Exchange 5.x and Exchange 2000. (1051, 07-31 2003), Read more
2. The SpaceGuard SRM migration wizard has been updated to include the import of SpaceGuard 4.2 MAPI user targets assigned to quotas. (1051, 07-31 2003), Read more
3. Popup alarm actions can now be sent to local and global groups. (1051, 07-31 2003)
4. The ability to browse for MAPI Email addresses, when configuring MAPI alarm actions, has been added. (1053, 08-29 2003)

**Version 5.1 (1048), June 27, 2003**
1. Added the ability to print quotas. (1044, 06-16 2003)
2. Added the **Auto-Add** quotas function. (1044, 06-16 2003)
3. Added Import and Export of quotas (1044, 06-16 2003)
4. Added a wizard to upgrade from SpaceGuard 4.2 to SpaceGuard SRM (1044, 06-16 2003)
5. Quotas and Auto-Add quotas are now visible in the network browse tree (1044, 06-16 2003)
6. %QUOTA_REMAINING% keyword added (1044 06-16 2003)
7. When getting the size of multiple directories, a total is now displayed (1044 06-16 2003)
8. Service Connections are now visible in the network browse tree (1044 06-16 2003)
9. When editing Quotas and Auto-Add Quotas the current size values are now displayed (1044 06-16 2003)
10. Added the option to automatically refresh items in the network browse tree when expanding an item (1048 06-27 2003)

**Version 5.0 (1030), May 9, 2003**
1. %QUOTA_REMAINING% keyword added. (1029, 05-07 2003)
2. %DATE% and %TIME% keywords added. (1030, 05-09 2003)
3. Added browse users and computers buttons throughout the product. (1030, 05-09 2003)
4. Added get directory size option (1030, 05-09 2003)
Fixes

Version 6.0 (1106), April 14, 2005
1. Service: SMTP Email server can send multiline greetings. These long greetings were not handled correctly by the service.
2. Service: Service security initialization failed when one entry was incorrect.
3. Service: License code was not checked properly if a site license name was entered.
4. Service: User assignment could return the same user or group name more than once.
5. Service: Active directory keywords were not resolved for domain local groups.
6. Service: On Windows 2000 the service could crash after sending MAPI Email.
7. Service: File extension blocking failed if more than one file extension was specified for one quota.

Version 6.0 (1101), March 4, 2005
1. Console: Several typo's fixed
2. Service: If an alarm action message contained more than one of the same keyword, the keyword would contain the result twice or more.
3. CLI: The service installation failed because a policy file could not be found.
4. CLI: The service installation through the Command Line Interface did not set all registry keys. This could result in problems when connecting to the service.

Version 6.0 (1098), January 14, 2005
1. Console: The User assignment test window did not display a username during tests.
2. Console: Add/Edit exclude directory from Auto-Add dialog did not enable the 'OK' button when entering a directory in the edit box.
3. Console: When testing user assignment, the exclusions were not taken into account.
4. Console: Potential crash fixed when converting a time to a string that can be displayed to the user.
5. Console: Sometimes when the upgrade question was answered with no, the question would popup over and over again.
6. Console: Changing a policy when editing a quota and selecting only one thing to edit (for instance 'size') the client could crash.
7. Console: When editing a custom tree item, the name would be changed, but the data 'inside' would still point to the original name, resulting in connection failures.
8. Console: Due to security restrictions, persons other than administrators do not have read access to the remote registry (HKLM) in contraction to the ACL’s. Therefore operators and such could no more connect to the service due to version checking. This has been fixed.
9. Service: When a service update failed, the client would assume that the service was upgraded.
10. CLI: When copying files using the command line interface in a specific way, the directory size was not updated.
11. CLI: A possible failure to read the policy file using the command line interface was fixed.
12. Service: The license check could fail during system boot if for instance the workstation service was not started yet. A delay and retry has been added.
13. Service: Fixed a potential crash in the quota engine when deleting quotas that were created with an auto add without a quota on a parent directory.
14. Service: Some files like SgMsg.dll will not be copied again when upgrading the service if they haven't been changed. This will solve problems when those files are locked.

Version 5.4 (1090), November 12, 2004
1. Console: Fixed a problem where get directory size calculated a wrong size.
2. **Console**: When quotas were renamed the size of the quota would not be updated on the connected consoles.
3. **Console-Service**: Fixed a problem where the service could not be upgraded automatically by the console.
4. **Service**: The service was not available for a few minutes after booting a system. This has been fixed.
5. **Service**: In very rare situations, the service could crash right after removing a quota. This has been fixed.
6. **Service**: Fixed a rare situation that changes in file sizes would not be handled after the deletion of a file.
7. **Console-Service**: Fixed a rare bug that could potentially crash both console and service.
8. **Service**: In some cases files copied by xcopy would not be handled. This would result in an incorrect quota size. This has been fixed.

**Version 5.4 (1087), September 17, 2004**
1. **Quotas**: The subject for e-mail alarm actions are now stored correctly.
2. **Quotas**: Quota calculation for sizes larger than 2047MB are now accurate.
3. **Quotas**: Auto-Add quotas placed on the root of a logical drive can now be edited and removed correctly.
4. **Quotas**: Improved performance when adding and removing quotas.
5. **Console**: When quota entries are highlighted during a sort action, the selection will no longer shift to another quota entry.
6. **Console**: Greatly improved performance of quota sorting.
7. **Console**: When searching for Active Directory Organizational Units, all entries are now displayed correctly in the user browse dialog.
8. **Console**: When editing or removing a MAPI profile, the list of profiles is now updated correctly.
9. **Console**: Custom folders can no longer be removed when the network tree's auto-refresh feature is enabled.
10. **Console-Service**: Improved performance when transmitting large amounts of data between console and service.
11. **Service**: The processor load no longer remains at 100% when the e-mail address in an alarm action contains single quotes.
12. **Service**: TAPI will now only be initialized on request.

**Version 5.4 (1084), May 17, 2004**
1. **Quotas**: Root shares such as \COMPUTER\Share were not resolved correctly, this has been fixed.
2. **Quotas**: Shares pointing to a remote computer or a cluster are now automatically filtered out of the user resolve process.
3. **Quotas**: Revoking access on private home directories with a private owner assigned to it works correctly. In previous versions this would fail due to insufficient rights held by the SpaceGuard SRM service.
4. **Quotas**: When using multiple Windows 2000 keywords, all values would become empty when resolving a single keyword failed. This has been fixed.
5. **Quotas**: Under some rare circumstances, the quota limit size keyword value was not calculated correctly. This has been fixed.
6. **Quotas**: When applying a higher level quota when sublevel quotas already exist, for example when putting a quota on the users root folder when subdirectories of the user folder already have a quota, SpaceGuard SRM did not correctly remove quota engine monitors for these sublevel quotas, resulting in high memory usage.
7. **Service**: The SpaceGuard SRM service could crash under some circumstances when using NT4 keywords in alarm actions. This has been fixed.
8. **Service**: A possible service crash when removing quotas has been solved.
9. **Service**: When stopping the SpaceGuard SRM service, all SAM/Active Directory user resolve operations are cancelled.
10. **Service**: Several quota engine optimizations to improve performance and stability.
11. **Console**: New and modified quota entries are automatically updated and sorted on-the-fly.
12. **Console**: When selecting a column header, the scroll bar no longer resets.
13. **Console**: When browsing for users using the user browse tree and selecting a user account from the "All Users" branch, this would result in an invalid username being returned to SpaceGuard SRM. This has been fixed.
14. **Console**: When creating quotas for directories in the network browse tree that do not actually exist, the state of these quotas would stay on "initializing" indefinitely, this has been fixed.
15. **Console**: Under some circumstances, the console could enter a not responding state when loading Exchange profiles.
16. **CLI INSTALL**: The default service installation path was not correct, this has been fixed.
17. **CLI UNINSTALL**: When uninstalling a service using this CLI command, the installation would abort displaying an error that the directory is not empty. This has been fixed.
18. **Cosmetics**: The dialog text in the "Add Directory Quota" window has been updated to reflect the new window button layout.
19. **Cosmetics**: Incorrect instances of -1 error messages in the service log have been replaced with the proper error message.

Version 5.4 (1080), April 9, 2004
1. **Quotas**: Under some circumstances, private user folders where the domain administrators did not have access were not correctly accounted in the quota size.
2. **Quotas**: When editing the user assignment of multiple quotas in the quota overview window, support for using keywords has been added.
3. **Quotas**: When SpaceGuard SRM is initializing the quota size for a quota, this state is now correctly shown in the quota overview window. Previously, SpaceGuard SRM incorrectly reported that this quota folder was empty.
4. **Cluster**: Support for Windows NT4 and Windows 2000 clusters was not working correctly. This issue only affected version 5.4 build 1078 and has been corrected in this release.
5. **Service installation**: Under some circumstances, the service installation did not properly assign user privileges to the SpaceGuard SRM service account.
6. **Service installation**: The service installation now defaults to the Windows system drive instead of choosing the first physical disk.
7. **Service installation**: Under some circumstances, the actual demo code was shown instead of the word "DEMO".
8. **Service security settings**: This dialog now reports an error message instead of incorrectly showing missing entries.
9. **Console**: The user browse tree returned user names in an incorrect format, causing incorrect operation in a later stadium.
10. **Console**: The column width was not saved when exiting the SpaceGuard SRM console.
11. **Console**: The SpaceGuard SRM in this version will not allow multiple connections to the same SpaceGuard SRM agent.
12. **Console**: The quota overview window is now sorted by default based on the quota folder name.
13. **Console**: A single click on a computer with no SpaceGuard SRM agent installed in the network browse tree does no longer result in a failed service installation.
14. **Console**: Sometimes the Auto-Add quota icon was missing on a folder in the network browse tree. This has been fixed.
15. **Console upgrade**: When running the InstallShield wizard to upgrade the SpaceGuard SRM console, the upgrade could fail due to the console still being active on the computer.
16. **Command Line Interface**: The command line interface now supports configuring the automatic quota user assignment for new quotas.
17. **Migration**: The quota migration function to import settings from SpaceGuard 4.2 did not function in version 5.4 build 1078, this has been corrected.
18. **Manual**: The CSV export format is now listed in the online help function.
19. **Manual**: A special popup syntax addendum has been added to the popup alarm action help page in the online help.

20. **Cosmetic**: The browse button for the "Add Directory" dialog when adding new quotas has been removed.

21. **Cosmetic**: When sorting columns, the quota overview window would shift to the left upon redrawing. This has been addressed.

**Version 5.4 (1078), February 25, 2004**

1. **Service**: Service will not start (error 1067) due to a corrupt quotas.dat. SpaceGuard SRM will now create a backup copy and replace the original when corrupt. This behaviour is logged in the Windows event log.

2. **Service**: Possible crash in the quota engine has been fixed.

3. **Quotas**: Revoke access: if the revoke target was a keyword, the revoke action when deleting a quota could fail. This resulted in the quota being deleted, but the revoke access permissions still being active on the actual folder.

4. **Quotas**: An issue with ACE ordering in the ACL related to inheritable permissions has been solved.

5. **SMTP email**: Possible crash/log corruption when sending SMTP email has been fixed.

6. **MAPI email**: A service crash related to sending large numbers of MAPI email messages has been solved.

7. **General**: Event log messages were moved from the event log to SpaceGuard SRM's own log file (sgsvc.log). This has been done to prevent unnecessary messages from flooding the windows event log. Only critical messages, for example license issues and starting/stoping the service will still be logged to the windows event log.

8. **Popups**: The SpaceGuard SRM popup engine has been completely rewritten for better control over the method used to send the popup. See the popup addendum for the new syntax specifications. When combined with the automatic quota link, the user target is configured automatically.

9. **Performance**: SpaceGuard SRM will now save its quota database every 5 minutes. Previously, every configuration change was saved immediately, causing slow performance when deleting and editing large numbers of quotas.

10. **Performance**: SpaceGuard SRM console-agent communication has been improved.

11. **Performance**: The general performance of the quota overview window has been improved, most noticeable when creating and/or deleting large numbers of quotas.

12. **Import/export**: Quota sizes and alarm actions are now correctly exported and imported.

13. **License code**: Any trailing spaces in the license code field in the service configuration are now removed automatically.

14. **Cosmetic**: The Popup, SMTP/MAPI and revoke access dialogs have been modified to reflect the addition of the new automatic user link. These dialogs now auto-select the quota user based on SpaceGuard SRM's auto detect mechanism.

**Version 5.3 (1067), November 13, 2003**

1. Fixed a problem in the service installation when trying to install the service on another drive. (1061, 10-10 2003)

2. Several cosmetic changes (1061, 10-10 2003)

3. Keywords were not parsed in the commandline alarm action. (1061, 10-10 2003)

4. Several keywords were never displayed, this has been fixed. (1061, 10-10 2003)

5. Service security settings for user groups has been fixed. Users did not have enough rights to connect. (1061, 10-10 2003)

6. When configuring MAPI the service could crash; this has been fixed. (1062, 24-10 2003)

7. Fixed a bug that sometimes when quotas were added, they would not be monitored (The current size would stay at 0 MB). (1062, 24-10 2003)

8. The service installation on Windows 2003 could fail because of password complexity rules. (1062, 24-10 2003)

9. When editing policies in the policy management window, the list would not be updated properly. (1062, 24-10 2003)

10. When stopping and starting the service some configuration items like the SMTP server would not be loaded. (1062, 24-10 2003)
11. When importing quotas from SpaceGuard 4.2 the client could crash when parsing entries with multiple Email addresses. (1067, 10-13 2003)
13. Several cosmetic fixes (1067, 10-13, 2003)
14. Fixed a crash when stopping the SpaceGuard SRM service on Windows 2003 (1067, 10-13, 2003)
15. On Windows 2003 the reset revoke access could fail because of incorrect rights assignments. (1067 10-13, 2003)
16. A compatibility issue regarding RFC 821 when using the SMTP alarm action has been fixed. (1067 10-13, 2003)

Version 5.2 (1053), August 29, 2003
1. Engine optimization: the SpaceGuard SRM engine no longer needs to resolve user SID's when revoking access or resetting access rights. This results in increased engine speed and decreases the number instances of 1338 and 1332 error messages in the SpaceGuard log where the operating system was not able to resolve a user SID. (1051, 07-31 2003)
2. When editing the size of Auto-Add policies, the add percentage and add absolute value were not properly recalculated. (1051, 07-31 2003)
3. In some cases the SpaceGuard SRM service could crash when automatically removing quotas for directories that had been deleted. (1053, 08-29 2003)
4. Several issues with revoke access: Revoke access could enter a 'broken state'; When encountering a (minor) error the revoke or reset revoke would stop. (1053, 08-29 2003)
5. When installing the service to a directory without spaces the pathname would become invalid. (1053, 08-29 2003)

Version 5.1 (1048), June 27, 2003
1. The 'service setup' dialog always displayed the 'DEMO' license code even though the license was entered. (1044, 06-16 2003)
2. Email alarm actions were only sent once after the alarm was triggered. (1044, 06-16 2003)
3. When trying to install the SpaceGuard SRM service on a backup domain controller or a member server, the installation failed because the service account rights could not be set. (1044, 06-16 2003)
4. When the demo expired the license information was displayed incorrectly. (1044, 06-16 2003)
5. When a valid license code was entered after the DEMO period expired, the service engine did not restart immediately. (1044 06-16 2003)
6. When sorting the main overview window with the quota state the quotas were not sorted correctly (1044, 06-16 2003)
7. When the access to a directory was revoked, the SpaceGuard SRM service was not always able to reset the permissions (1044 06-16 2003)
8. When importing email addresses from SpaceGuard 4.2 the 'smtp:' keyword was parsed incorrectly. (1046, 06-19 2003)
9. When importing from SpaceGuard 4.2 the import will no longer terminate when encountering inconsistencies in the database files. (1046, 06-19 2003)
10. Several cosmetic changes. (1046, 06-19 2003)
11. When importing large amounts of quotas from SpaceGuard 4.2 the client terminated unexpectedly. (1048, 06-27 2003)

Version 5.0 (1030), May 9, 2003
1. Client crashes when sorting main overview after deleting on or more items. (1028, 05-02 2003)
2. The alarmaction select dialog did not appear and the popup alarmaction was automatically selected. (1028, 05-02 2003)
3. When creating policies from 'manage policies', the policy name was not being saved. (1028, 05-02 2003)
4. When checking the license code an error was displayed when the license was invalid. (1029, 05-07 2003)
5. Alarmactions could not be edited if they had failed. (1029, 05-07 2003)
6. Sometimes popups could not be sent (Error 2273), because of an invalid default message source. (1029, 05-07 2003)
7. When editing limits and testing alarmactions a computername was asked, which was unnecessary. (1029, 05-07 2003)
8. When trying to install the service from a workstation in a domain, the group 'domain admins' was not located correctly. (1029, 05-07 2003)
9. When using (not editing) a policy to create a quota, an empty policy was selected. (1029, 05-07 2003)
10. When an alarm action had a repeat count specified, the service would execute the alarmaction although it already was in progress. (1030, 05-09 2003)
11. When editing limits, the screen was not refreshed properly and the limit name was not reset. (1030, 05-09 2003)
12. When editing revoke access alarm actions and changing the username, the rights were not reset correctly. (1030, 05-09 2003)
Configuring the SpaceGuard SRM service

Service Configuration

Most configuration settings in SpaceGuard SRM are specified at the server level. To change configuration settings, you use the SpaceGuard SRM client. To configure a SpaceGuard SRM service, locate a computer running a SpaceGuard SRM service. Right-click on the computer, select "Service Management", then "Configuration...".

For detailed service configuration information of each tab, see the following topics:

- **SMTP email**
- MAPI email
- Pager-SMS
- Cluster
- Logging
- Filter Driver
- Licensing
- Service Info

See also:
- Installing a SpaceGuard SRM service
- Service Configuration - Setup Cluster Mode
Service Configuration - Clusters

SpaceGuard SRM software can also be used on cluster configurations. No special additions are needed.
All Microsoft Cluster (MSCS) configurations (active-active, active-passive) are supported. It will take a few minutes to install the SpaceGuard SRM service on a cluster configuration (see below).

◆ Steps to install SpaceGuard SRM on a cluster:

Notes: Do not define a generic service in your cluster when installing SpaceGuard SRM

1. Install the SpaceGuard SRM service on all nodes in the cluster (see Installing a SpaceGuard SRM service). Please make sure that the "Enable cluster software" checkbox in the advanced section is checked. (Note: This option can also be enabled after service installation (see Service Configuration - Cluster).

2. Make sure that both servers have the same "Configuration Path" specified (see Service Configuration - Cluster). This path is a relative path, since the Microsoft Cluster software assigns a disk automatically, and will be created on each shared cluster disk. For example: \SpaceGuard SRM Service\Quota's must be added on the cluster node that is the owner of the disk on which quota's are created. This information can be found in the cluster administrator snap-in or the Cluster Configuration Tab.

See also:
Installing a SpaceGuard SRM service
Service Configuration
Configuration

Service Configuration - SMTP Email

If you want SpaceGuard SRM to send out SMTP email alerts when for example your users exceed their quota, the SpaceGuard SRM service needs to know how to access an outgoing SMTP mail server.

**SMTP server**
Enter the address of the SMTP Email server. If you do not specify a valid address the SpaceGuard SRM service will not be able to send SMTP Email messages. You can enter the address in DNS format or dotted notation (like mailserver.tools4ever.com or 192.168.195.67).

**SpaceGuard SRM Email address**
Enter the Email account the SpaceGuard SRM service should use. Depending on your Email server it might be required to specify a valid email account. Some Email servers don't care about the Email account specified. The account shows up as the 'From' field in messages sent.

**Authentication methods:**
- **None** - Select this option if the selected SNMP service does not require authentication for outgoing mail messages. The username and password specified are ignored.
- **Login** - If the selected SNMP service requires basic authentication by means of the SMTP "LOGIN" protocol, select this option. This is for instance the method used by Exchange 2000 when the required authentication method on the server is set to "Basic
Authentication”. This is the most commonly used simple username/password authentication method. Note that although the password is not send in readable format, it is not encrypted.

**Username** - Specify the SMTP user account name for the Login or Plain authentication methods.

**Password** - Specify the SMTP user account password for the Login or Plain authentication methods.

**See Also:**
- MAPI Email
- Pager-SMS
- Cluster
- Logging
- Filter Driver
- Licensing
- Info
Service Configuration - MAPI Email

If you want SpaceGuard SRM to send out MAPI email alerts when for example your users exceed their quota, the SpaceGuard SRM service needs to have a fully configured mail profile to login on Exchange 5.x, Exchange 2000 or Exchange 2003 and send out email messages.

Profile Configuration
To connect to an Exchange (5.x, 2000 or 2003) server, the SpaceGuard SRM service will need its own profile. Click Add to create a new MAPI profile and enter the information as you would when configuring a regular mail client such as Microsoft Outlook. **NOTE: for the profile creation to work, you need to have a valid MAPI client such as Microsoft Outlook installed on the computer running the SpaceGuard SRM service you are currently configuring.**

**IMPORTANT:**
When creating a mail profile for SpaceGuard SRM, you will need an existing mailbox to connect the profile to. It is important that you create this mailbox **BEFORE** creating a mail profile. For Exchange 5.x, you need to create a mailbox within the Exchange user interface and assign this to the SpaceGuard SRM service account, (default SpaceGuardSvcAccnt). For Exchange 2000, locate the SpaceGuard SRM service account in Active Directory Users and Computers and assign a new mailbox to the existing account.

**Use profile**
Select one of the created mail profiles which the SpaceGuard SRM service should use when connecting to Exchange 5.x or 2000 to send out email messages. Optionally specify a password if the profile requires one.
Service Configuration - Pager-SMS

As an alarm action, SpaceGuard SRM can send a message to a pager or mobile telephone (SMS). This is done by using a modem, connected to the server that runs the SpaceGuard SRM service. The pager - SMS messages are sent by the SpaceGuard SRM service depending on the configured alarm actions. See Alarm Action Pager-SMS for more information. To use pager and SMS messaging, you need to install and configure the modem and specify some settings in SpaceGuard SRM.

Requirements:

- You need to have a modem connected to the server or the server must have a built-in modem card. In case the modem is not already installed, you need to have the software to install the modem.
- The modem must be connected to a telephone line that is capable of calling an outside line.
- The SpaceGuard SRM service must be running on the server.

Installation and configuration procedure:

The following list summarizes the installation and configuration procedure to send pager - SMS messages.

- Install and configure a modem on the server. Note that you can also install the modem to a workstation.
- In the Pager-SMS tab, specify the number to dial an outside line.
• In the **Pager-SMS tab**, choose a telecom provider. Providers can be created, modified or deleted. All settings, such as the provider number, password, modem settings and SMS/pager protocol are configured per provider. To change a pre-defined provider, click "Edit".

![Provider configuration dialog](image)

• In the **Pager-SMS tab**, send a test message to your pager - mobile telephone by clicking the "Test configuration" button. This will ensure that all configuration settings are correct and that SpaceGuard SRM can successfully connect to the telecom provider.

• Configure alarm actions to send pager -SMS messages. See [Alarm Action Pager-SMS](#) for more information.

**See Also:**
- [SMTP Email](#)
- [MAPI Email](#)
- [Cluster Logging](#)
- [Filter Driver Licensing Info](#)
Service Configuration - Cluster

The cluster tab shows information about the cluster configuration.

The Configuration path shows the (hidden) directory that is created on every disk in the cluster as soon as a quota is defined. This directory is used by the SpaceGuard SRM service to store the quota information for the cluster.

When the Cluster Software Enabled checkbox is checked the SpaceGuard SRM service is cluster aware.

The section Cluster Information shows the Node (computer) and the cluster drives that are currently owned by the node.

See also:
Service Configuration - Clusters
SMTP Email
MAPI Email
Pager-SMS
Logging
Filter Driver
Licensing
Info
Service Configuration - Logging

The logging tab displays the logging settings used by the SpaceGuard SRM service.

◆ Debug Logging

- **Enable Debug Logging**: When enabled the SpaceGuard SRM service logs additional information to the SpaceGuard log file (SgSvc.log located in the service directory, i.e. C:\Program Files\SpaceGuard Service). If you are experiencing problems with for instance sending Email or popup messages, this will provide valuable extra information.
- **Show Log**: Click on this button to view the log of the currently selected SpaceGuard SRM service. The log will be stored in the SpaceGuard SRM client directory (e.g. 'c:\program files\Tools4ever\SpaceGuard SRM') as 'COMPUTER-svc.log'
- **Clear Log**: Clicking on this button will clear SpaceGuard SRM service log.

◆ Log File Size

- **Maximum Size**: The SpaceGuard SRM service log can become very large in a very short amount of time if debug logging is enabled. This setting will allow you to limit the maximum size of the log file. If the maximum logfile size has been reached, the log will be cleared.
**Client Messages**

- **Maximum amount of messages**: This setting limits the amount of messages that will be kept. If this limit is reached and a new message is added, the oldest message will be removed.
- **Maximum message age**: Messages will be deleted after this time has elapsed.

See also:
- SMTP Email
- MAPI Email
- Pager-SMS
- Cluster
- Filter Driver
- Licensing
- Info
Service Configuration - Info

The info tab shows general information about the currently selected SpaceGuard SRM service, such as its version and running state.

---

### Configuration settings for service on computer: AIRBUS

<table>
<thead>
<tr>
<th>SMTP Email</th>
<th>MAPI E-mail</th>
<th>Pager-SMS</th>
<th>Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Info</td>
</tr>
</tbody>
</table>

#### General
- **Computer:** AIRBUS
- **State:** The SpaceGuard SRM service is running
- **Configuration path:** `C:\Program Files\SpaceGuard Service\`

#### Version
- **Version:** 6.0
- **Build:** 1105
- **Driver build:** 107

#### Communication
- **Port Number:** 46106
- **IP-Address:** 192.168.196.31

---

**See also:**
- SMTP Email
- MAPI Email
- Pager-SMS
- Cluster
- Logging
- Filter Driver
- Licensing
- Info
Security

Service Security Settings

SpaceGuard SRM has four different levels of access. This is very useful for Administrators to control the level of access of working with SpaceGuard SRM. It provides the possibility to delegate certain features of the product.

To specify SpaceGuard SRM access rights first start the SpaceGuard SRM client. Use the network browse tree to navigate to the SpaceGuard SRM service you want to modify the security settings for. Right click and choose "Service Management", and then "Security Settings..."

Security users can be entered directly or use browse buttons to look users and groups who should have SpaceGuard SRM access rights. Each field may contain any number of Windows NT/2000 user or group accounts, separated by comma's. Changes become effective when OK is clicked.

The following table shows which actions can be done by each type of security user:

<table>
<thead>
<tr>
<th></th>
<th>Administrators</th>
<th>Operators</th>
<th>Power Users</th>
<th>Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provide access rights</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Create quotas</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Delete quotas</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Edit quotas</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>View quotas</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

See also:

Service Configuration
User Assignment

Quota User Assignment

SpaceGuard SRM version 5.4 or later features Active Directory integration. This powerful feature can be used to automatically resolve user attributes such as the email address when sending out email alerts. A much more powerful use is to have SpaceGuard SRM automatically assign user accounts to quotas based on input from the Active Directory, such as the home directory attribute.

SpaceGuard SRM automatically matches users to quotas based on (sorted on priority) the following criteria. If a search method does not return a valid match, SpaceGuard SRM will continue using the next method. The settings below are automatically activated and used by default:

- **Active Directory / NT Security Accounts Manager (SAM)**
  
  To match the quota directory to a user, SpaceGuard SRM will search the Active Directory or the NT SAM for a matching home directory.

- **ACL - permissions**

  SpaceGuard SRM will analyze the folder permissions of the quota directory (Access Control List) and resolve possible user account matches. Well-Known accounts such as "Everyone" and "Administrators" will be filtered out.

- **Owner**

  The owner of the quota directory will be used as the username attached to the quota.

- **Relative directory name (disabled by default)**

  This method uses the last part of the quota directory. For instance if the quota directory is: 'U:\Users\John' the result would be 'John'.

See also:

- Configuring User Assignment
- Test User Assignment
Test User Assignment

To make sure SpaceGuard SRM is using the correct methods to automatically match user accounts to quota folders, you can use the built-in test function of the user assignment configuration. To view this window, locate a computer running a SpaceGuard SRM service, right-click and select "Service Management", and then choose "User Assignment...". In the Automatic Quota User Assignment window, click the "Test" button.

Select the home directories which you want to resolve, and click the "Resolve" button as shown below:

SpaceGuard SRM will quickly resolve the quota folders according to the methods configured in the Automatic Quota User Assignments. More information on configuring these methods can be found in the topic: Configuring User Assignment.

The results are shown in the list on the right hand side of the screen, displaying the resolve user in the "User" column. When deployed on real quotas, SpaceGuard SRM will use the user account as resolved in this screen.
See also:
Quota User Assignment
Configure User Assignment
Configure User Inclusions
Using SpaceGuard SRM

Using the Browse Network tree

You use the network browse window to find directories/drives on computers in domains, to access menu options, to show all managed quota's for a selected computer and for drag and drop operations. The network browse window shows a tree display similar to the tree used in the Windows Explorer and many other applications.

![Network Browse Window]

By default, the network browse window allows you to search for domains and computers within domains. This is done by accessing the Network tree item in the network browse window. Within this tree item, the network domain and computer information is shown as obtained from various networking calls. Items that are contained in the Network tree item cannot be manipulated by users.

1. Show all managed quota's on a specified computer
   By selecting "Show Quota Overview", the SpaceGuard SRM client is instructed to connect to a SpaceGuard SRM service running on the selected computer and display all managed quota's in the overview window. Using the overview window, you can configure your existing quota's.

2. Add new quota's
   Using the network browse tree, you can drill-down to the directory level of a computer. Expand the tree for a computer, then expand the disk until the folders show up. When right-clicking on a folder, you can create a quota for the selected folder by choosing "Quota-->Add...". See "Add Directory Quota's" for more information.

3. Create organized folders with domains and computers
   The network browse tree is fully customizable by letting you create your own organized tree of domains/computers. Just right-click on an empty portion below the standard tree and select "New Folder...". You can place domains and computers or new folders inside this newly created folder. Also, if a computer's browsing service has been disabled, it will be hidden by default from the network. By adding the computer in a custom folder and assigning the computer's NETBIOS name to it, you can connect to that computers even though it's hidden.

4. Refresh to reflect network and computer changes
By default, SpaceGuard SRM saves the state of the network browse tree and doesn't scan the entire contents automatically when starting the SpaceGuard SRM client. To refresh (parts of) the network browse tree, just select a branch, right-click and select "Refresh". All contents under that branch will be rescanned. This is particularly useful for domain or computer/directory changes.

See Also:
Using the Quota Overview
Quota Overview Window

Open the Quota Overview

Managing and configuring quota's is handled through the quota overview window. This window displays all managed quota's per SpaceGuard SRM service. You can connect to any SpaceGuard SRM service and view its contents from a single SpaceGuard SRM client.

To open the Quota Overview, use the network browse tree to navigate to a computer running a SpaceGuard SRM service, right-click and choose "Show Quota Overview"

A window will be displayed containing all the quota's from the selected computer.

See Also:
Using the Browse Network tree
Using the Quota Overview window
Configure Columns
Using the Quota Overview

All quota configuration and editing is done through the **Quota overview window**. Using the Quota overview window, you can quickly assess quota limits, sizes, actual directory size and which alarm actions have (not) been executed.

The quota overview displays several columns by default. The order and kind of columns can be changed by the **configure column** dialog.

- **Current Size**: This is the current size of the quota directory.
- **Quota Directory**: The directory on which the quota is set.
- **Quota Size**: This is the 100% quota limit size. Select on one or more quota's, right click and select "**Edit Quota Size...**" from the menu to change this value. The limits configured for the selected quota's will be recalculated to the new size.
- **Account**: When creating a quota, a user account is automatically linked to the quota (**Quota User Assignment**). Select on one or more quota's, right click and select "**Edit Quota User...**" from the menu to change this value. Options include: Resolve the name and set manually.
- **Quota State**: The quota state is a graphical representation of the state of the quota. The blue lines in the bar are the configured limits. The green part of the bar is the quota size below the 100% limit (In the above screenshot below 50MB). When the directory size exceeds the quota size, the bar turns red.
- **Limits exceeded**: This number represents the amount of limits exceeded.
- **Not executed Actions**: The icons in this column represent the alarm actions, that have not been triggered, configured for the quota.
- **Executed Actions**: These are the actions that have been triggered and executed. When an icon is somewhat 'greyed', it means that the alarm action has failed.

On the bottom of the quota overview window a list of **Auto-Add quotas** is displayed. The Auto-Add quota list contains three columns:

- **Auto-Add Directory**: The directory on which the Auto-Add quota is set.
- **Policy**: The policy that will be applied when a quota is created by the Auto-Add quota.
- **Excluded Directories**: The directories that are excluded from Auto-Add.

By default the overview is refreshed every 3 seconds. This value can be changed by selecting "**Configure Refresh Rate...**" from the **View** menu.
See Also:
Using the Browse Network tree
Open the Quota Overview window
Configure Columns
Configuring Columns

In the Overview window the properties of directory quotas are presented. See Using Overview Window. The overview window layout may be altered by configuring the columns.
To configure columns, Right-click a white space area in the overview window and select Configure columns. The following window will be presented:

The following properties of the overview window may be alerted:
- adding or deleting columns
- changing the order of the columns
- changing the width and alignment of the columns

Select a column and click on edit to change the properties of the column. You will be presented with the following window:
See Also:
Using Network Browser
Using Overview Window
Quotas
Adding Quotas

Step 1 - Add Directory Quota

In SpaceGuard SRM, quota's can be set on complete disks or any branch of directory/subdirectory. All data including subfolders will be taken into account when calculating the single quota size.

To add a quota, use the network browse tree to navigate to a disk/folder on a computer that has a SpaceGuard SRM service installed and running. Right-click the disk/folder and choose "Add Quota...".

You will be presented with the Add quota wizard as shown below. This wizard will guide you through the process of creating one or more quota's. The first window displays the directories that
SpaceGuard SRM

were selected and the computer on which they reside. From here directories can be added, edited and deleted.

![Directories](image)

Click on next to continue to Step 2 - Quota Policy, of creating a quota.

**See Also:**
- Step 2 - Quota Policy
- Step 3 - Quota Size
- Step 4 - Configure Limits
- Step 5 - Block Extensions
- Step 6 - Save Quota Policy
Step 2 - Quota policy

In the second page of the Add Quota wizard a quota policy can be used to create the quota's. Quota policies are used to store configuration settings such as quota size, limits and alarm actions in a single policy.

- **Specify quota limits**: When choosing to define a custom quota, simply leave the window to its default setting (Specify quota limits) and click "Next ->" to continue. You will be able to name and save the created policy later if needed.

- **Edit quota policy**: In the event that a policy already has been created, either through this wizard or the manage quota policies dialog and does not meet the requirements exactly, choose this option. When clicking on next the pages will be completely filled out. The information within can be changed and later be saved at the Save Quota Policy Page.
• **Use Quota Policy:** In the event that a policy already has been created, either through this wizard or the manage quota policies dialog, it can be used here to create the quota. Select the correct policy; the finish button will become available. When clicking on **finish** the quota will be created according to the policy and the wizard will end.

See **Step 3 - Quota Size** when continuing the **Add Quota** wizard.

See Also:
- Step 1 - Add Directory Quota
- Step 3 - Quota Size
- Step 4 - Configure Limits
- Step 5 - Block Extensions
- Step 6 - Save Quota Policy
- Quota Policies Overview
- Managing Quota Policies
**Step 3 - Quota Size**

When creating or modifying directory quota's, you need to define a *Quota size*. The Quota size is a reference value indicating the size of the quota. All quota limits will be based on a percentage of this size.

![Quota Size](image)

The following Quota Size types may be defined:

- **Absolute value**, e.g. 10MB. Choosing an absolute value will set a fixed limit for the selected directory quota. All limits based on this size will be a percentage of this fixed value.
- **Percentage of the current directory size**, e.g. 100%. Choose this setting if you want the quota size to be exactly the same as the current directory size.
- **Percentage of the logical disk size**, e.g. 1%. Choose this setting to make the quota size dependent on the logical disk size.

Choosing the right quota size:

1) **Fixed 50MB quota's for all your users' home directories**
   Quota size: absolute value on 50MB
   Revoke limit on 100% of the quota size

2) **You want to be alerted when your users exceed their current directory size**
   Quota size: percentage of the current directory size: 100%
   Popup limit on 100% of the quota size

3) **Fixed 100MB quota's, you want to be alerted when users exceed 80MB of storage**
   Quota size: absolute value on 100MB
   Popup limit on 80% of the quota size
   Revoke limit on 100% of the quota size
When using the Add Quota wizard, continue setting the quota limits and see Step 4 - Quota Limits.

**See Also:**
- Step 1 - Add Directory Quota
- Step 2 - Quota Policy
- Step 4 - Configure Limits
- Step 5 - Block Extensions
- Step 6 - Save Quota Policy
Step 4 - Configure Limits

Each quota can have one or more limits. A limit is a percentage based on the quota size. If you have for example a fixed quota size of 50MB and you define a limit of 100% and assign an alert, the alert will be executed when the 50MB has been exceeded. When continuing the Add Quota wizard, see Step 5 - Save Quota Policy.

A quota can have as many limits as you need. Click on Add to configure a new limit. Select a limit and click on Edit to edit an existing limit. Both will display the 'Configure Limit' dialog. This dialog will allow you to configure the alarm actions that need to be executed when the limit is exceeded.
SpaceGuard SRM

Threshold
- **Percentage of quota size**: This specifies when the limit is triggered. It is a percentage based on the size of the quota entered in the **Quota Size Tab**. A few examples:
  - Quota size 50MB and limit percentage 100%. Alarm Actions are triggered when the quota directory exceeds 50MB.
  - Quota size 50MB and limit percentage 75%. Alarm Actions are triggered when the quota directory exceeds 37.5MB.
When the quota size is edited, the limits will automatically be recalculated to match the new size.

Alarm Actions
- **Add**: Click on this button to add an alarm action. This will display the **Alarm Action Selection** dialog. You can add as many alarm actions as needed.
- **Edit**: Select an alarm action from the list and click on edit to edit an existing alarm action.
- **Delete**: Select an alarm action from the list and click on delete to delete the alarm action.

Name
A name can be entered to identify the limit in the limits overview window. If no name is entered, a name is automatically generated.
See Also:
Step 1 - Add Directory Quota
Step 2 - Quota Policy
Step 3 - Quota Size
Step 5 - Block Extensions
Step 6 - Save Quota Policy
Step 6 - Save Quota Policy

Quota policies are used to store configuration settings such as quota size, limits and alarm actions in a single policy. When creating quota’s later on, you can use this policy for one-step deployment.

You can save all configuration settings for the current quota in a quota policy by simply entering a name at the end of the quota creation. When you create a new directory quota, the new quota policy will be available for immediately deployment.

Click "Finish" to apply all settings and exit the wizard. The new quota will be visible in the Quota overview window.

See Also:
Step 1 - Add Directory Quota
Step 2 - Quota Policy
Step 3 - Quota Size
Step 4 - Configure Limits
Step 6 - Save Quota Policy
Edit Quotas

Edit Quota Properties

Once quota's have been created using either a custom size/limit or using a Quota policy, you can modify their size, limits, user assignment and policies separately or for multiple quota's. To do so, open the Quota Overview Window and select one or more quota's, right-click and choose "Properties..."

When reconfiguring quota's on a large scale, you can make excellent use of SpaceGuard SRM's SmartQuota technology. SmartQuota enables adding or modifying limits for a large number of quota's without changing the quota size. If you, for example, feel that some users should be able to get a little bit more room on their home directories, just select all those quota's and increase the revoke limit size from 100% to 110%. This will not affect other currently configured limits since the quota size has not been changed.

1. **SmartQuota policy updates using quota limit changes** (see Edit Quota Limits for more information):
   
   Before:
   - Quota size: 50MB
   - Popup limit for the user on 80% (executed when user exceeds 40MB)
   - Popup limit for the administrator on 90% (executed when user exceeds 45MB)
   - Revoke limit for the user on 100% (executed when user exceeds 50MB)

   After:
   - Quota size: 50MB
   - Popup limit for the user on 90% (executed when user exceeds 45MB)
   - Popup limit for the administrator on 100% (executed when user exceeds 50MB)
   - Revoke limit for the user on 110% (executed when user exceeds 55MB)

2. **SmartQuota policy updates using quota size changes** (see Edit Quota Size for more information):
   
   Before:
   - Quota size: 50MB
   - Popup limit for the user on 80% (executed when user exceeds 40MB)
   - Popup limit for the administrator on 90% (executed when user exceeds 45MB)
   - Revoke limit for the user on 100% (executed when user exceeds 50MB)

   After:
   - Quota size: 60MB
   - Popup limit for the user on 80% (executed when user exceeds 48MB)
   - Popup limit for the administrator on 90% (executed when user exceeds 54MB)
   - Revoke limit for the user on 100% (executed when user exceeds 60MB)

See Also:
- Edit Quota Limits
- Edit Quota Size
- Edit Quota User
- Edit Quota Policy
- Edit Quota Extensions
Edit Quota Limits

In SpaceGuard SRM, alarm actions are executed based on the quota limits. Quota limits on their turn, are based on a percentage of the quota size. When changing a quota limit, only the alarm actions connected to that limit are affected. See Edit Quota Properties for an example scenario when the quota limit changes.

For more information on editing and choosing the right quota size, see Configure Limits.

See Also:
- Edit Quota Properties
- Edit Quota Size
- Edit Quota User
- Edit Quota Policy
- Edit Quota Extensions
**Edit Quota Size**

In SpaceGuard SRM, alarm actions are executed based on the quota limits. Quota limits on their turn, are based on a percentage of the quota size. So when changing the quota size, all other actions will change as well. See [Edit Quota Properties](#) for an example scenario when the quota size changes.

![Edit Quota Dialog](image)

For more information on editing and choosing the right quota size, see [Quota Size](#).

**See Also:**
- [Edit Quota Properties](#)
- [Edit Quota Limits](#)
- [Edit Quota User](#)
- [Edit Quota Policy](#)
- [Edit Quota Extensions](#)
Edit Quota User

This dialog shows the configuration of the currently assigned user(s) and/or group(s) to the selected quota. The information in this dialog will be used as target for alarm actions such as popup, email and revoke access. If SpaceGuard SRM does not assign the correct accounts to quotas, you can either configure the user assignment options or assign one or more account manually using this dialog.

When displaying this dialog for active quotas that have been resolved, this dialog will show the resolved user accounts in the "Current User Assignment" edit box.

- **Enter manually**: When using this option, you can bypass SpaceGuard SRM's automatic quota user matching and specify a user account manually. Current entries can be edited by removing or adding to the keywords: "%CURRENT_DOMAIN_0%" and "%CURRENT_USER_0%". The number in the keyword represents the entry.
- **Resolve**: Have SpaceGuard SRM resolve the user account according to the rules defined in the user assignment options.
- **Do not change the current user**: This option is automatically activated when editing multiple quotas.

See Also:
- Edit Quota Properties
- Edit Quota Limits
- Edit Quota Size
- Edit Quota Policy
- Edit Quota Extensions
Quota Policies

Managing Quota Policies

*Quota policies* can be created and saved during quota creation in the *add quota wizard*. You can also create, modify and delete these policies using the *Manage Quota Policies* window. Select "File - Manage Quota Policies" from the menu bar to manage the quota policies. The following dialog will be displayed:

![Manage Quota Policies](image)

**Source**

Policies can be stored locally and on a SpaceGuard SRM service. To view the policies that are stored at a specific location select either 'local' or 'computer'. If you select 'computer' enter a computer name or click on the browse button to browse the network for a computer. Then click on load. Please note that a SpaceGuard SRM service needs to be running on the selected computer except for local policies.

- **Load**: By clicking on this button, the policies from the selected source will be displayed in the policies list.
- **Merge**: The policies from the selected source will be merged with the policies already displayed in the policies list.
- **Save**: The policies in the policies list will be saved to the selected source.

**Please note**: The selected source is used throughout the SpaceGuard SRM client as a source for policies. This will allow you to create quota's on several fileservers with the policy stored on the selected source.
**Policies**

The policies list displays all policies that are stored at the selected source. It also allows you to add, edit and delete policies. These can later be stored on the selected source (either by clicking on **OK** or **Save**).

- **Add**: Add a new policy.
- **Edit**: Select a policy from the list and click on edit to edit the policy. Changes will not be saved until you click on ‘**Save**’ or ‘**Ok**’.
- **Delete**: Deletes the selected policy.
- **Copy**: Makes a copy of the selected policy. This copy can than be edited.

**Please note** that changes made to the policies will not be saved until you click on ‘**Save**’ or ‘**Ok**’.

See also:
- Step 2 - Quota Policy
- Edit Quota Policies
- Step 5 - Save Quota Policy
Alarm Actions

Alarm Action Overview

Alarm actions are used for notification and execution of several actions. SpaceGuard SRM supports all major notification methods (Popup, SMTP and MAPI Email, Pager-SMS messaging) and a number of other actions such as Command line execution and Revoke access.

The alarm actions are divided into 2 groups, **notifications** and **corrective actions**. Notifications are popup's, email messages, pager/sms messages and log entries. The command and revoke access actions are corrective and the latter is used to create "hard" quota's for users when they exceed their quota limit.

**See Also:**
Alarm Action Popup
Alarm Action Email (SMTP)
Alarm Action Email (MAPI)
Alarm Action Pager-SMS
Alarm Action Log
Alarm Action Command
Alarm Action Revoke Access
Alarm Action Options
Keywords
Alarm Action Popup

Popup alarm actions can be sent to either users or computers. Popup's are convenient for updating users on their current quota status and updating administrators on quota violations.

Note:

- Popup's can only be send if the Windows Messenger service is running on the computer that is running the SpaceGuard SRM service and the computer where the popup is send to.
- The messenger service is disabled by default on a Windows 2003 and a Windows XP Service Pack 2 machine.
- If a user is not logged on or the messenger service is not running on his/her machine the popup will fail.

**Popup Destination**
Popup’s can be send to users, computers and groups. You can specify multiple destinations separated by a comma. They do not need to be of the same type.

- **Send a popup to the user account associated with this quota**: Select this to send a popup to the accounts associated with the quota. These accounts are assigned to the quota through automatic user assignment.
- **Other destinations**: Specify the destinations manually. These destinations will not be overwritten by the automatic user assignment.

**Message**
Compose the popup message. You can use all sorts of keywords in this message, SpaceGuard SRM will fill them in once the alarm action is executed. For a detailed list of all usable keywords, see [Keywords](#).

**Default messages**
You can save your predefined messages using the keywords for easy setup later on. When the message has been composed, click **"Save as..."** to save the current message (destination is not saved). To use a default message, select one from the **default messages** dropdown menu.

**Test**
Clicking this button will send the currently specified message to its destination. Use this method to test if the SpaceGuard SRM service can successfully send the popup message. Keywords will be not be resolved when testing popup messages.

**Additional popup syntax addendum**
This addendum shows the syntax which can be used to force specific types of destinations, such as groups or computers:
- **DOMAIN\USER** - domain user
- **\COMPUTER\USER** - local user
- **USER** - SpaceGuard SRM will automatically try all combinations and send out the popup
- **DOMAIN\GROUP** - domain group
- **\COMPUTER\GROUP** - local group
- **GROUP** - SpaceGuard SRM will automatically try all combinations and send out the popup
- **COMPUTER** - SpaceGuard SRM will automatically try all combinations and send out the popup

To force the destination type, SpaceGuard SRM allows the following syntax additions (example **U:TOOLS4EVER\JSmith**):
- **C**: Computer
- **G**: Domain group
- **L**: Local group
- **U**: User

**See Also:**
- [Alarm Action Overview](#)
- [Alarm Action Email (SMTP)](#)
- [Alarm Action Email (MAPI)](#)
- [Alarm Action Pager-SMS](#)
- [Alarm Action Log](#)
- [Alarm Action Command](#)
- [Alarm Action Revoke Access](#)
- [Alarm Action Options](#)
- [Keywords](#)
Glossary

Alarm Action Email (SMTP)

The SMTP Email alarm action can send email messages to any compliant email address. Any valid SMTP server, including Microsoft Exchange (with SMTP enabled), can be used to transmit these messages. Before sending email alarm actions, the SMTP settings must be configured on the SpaceGuard SRM service. See SMTP Email for details.

Please note: The from address and the SMTP mail server are configured using the SMTP Email service configuration.

◆ E-mail Destination

- **Use the Active Directory to determine the E-mail address:** The E-mail addresses are resolved from the Active Directory using the user accounts assigned to the quota. These accounts are assigned to the quota through automatic user assignment.
- **Specify the E-mail address(es):** Enter one or more E-mail addresses separated by a comma.
Subject (optional):
Enter a subject.

Message
Compose the email message. You can use all sorts of keywords in this message, SpaceGuard SRM will fill them in once the alarm action is executed. For a detailed list of all usable keywords, see Keywords.

Default messages
You can save your predefined messages using the keywords for easy setup later on. When the message has been composed, click "Save as..." to save the current message (destination is not saved). To use a default message, select one from the default messages dropdown menu.

Test
Clicking this button will send the currently specified email message to its destination. Use this method to test if the SpaceGuard SRM service can successfully send the email message. Keywords will be ignored when testing popup messages.

See Also:
Alarm Action Overview
Alarm Action Popup
Alarm Action Email (MAPI)
Alarm Action Pager-SMS
Alarm Action Log
Alarm Action Command
Alarm Action Revoke Access
Alarm Action Options
Keywords
Alarm Action Email (MAPI)

SpaceGuard SRM supports the MAPI protocol for sending out email alerts through Exchange servers. Before sending out MAPI email alarm actions, make sure MAPI support is configured properly. More information on configuring MAPI can be found in the topic: Service Configuration - MAPI email.

Please note: The SpaceGuard SRM service account must have an exchange mailbox and a MAPI profile must be configured. The profile can be configured using the MAPI E-mail configuration tab.

**E-mail Destination**

- **Send E-mail to the user account associated with this quota:** E-mail is send to the user account(s) assigned to the quota. These accounts are assigned to the quota through automatic user assignment.
- **Specify the E-mail address(es):** Enter one or more E-mail addresses separated by a comma.
Subject (optional):
Enter a subject.

Message
Compose the email message. You can use all sorts of keywords in this message, SpaceGuard SRM will fill them in once the alarm action is executed. For a detailed list of all usable keywords, see Keywords.

Default messages
You can save your predefined messages using the keywords for easy setup later on. When the message has been composed, click "Save as..." to save the current message (destination is not saved). To use a default message, select one from the default messages dropdown menu.

Test
Clicking this button will send the currently specified email message to its destination. Use this method to test if the SpaceGuard SRM service can successfully send the email message. Keywords will be ignored when testing popup messages.

See Also:
Alarm Action Overview
Alarm Action Popup
Alarm Action Email (SMTP)
Alarm Action Pager-SMS
Alarm Action Log
Alarm Action Command
Alarm Action Revoking Access
Alarm Action Options
Keywords
Alarm Action Pager-SMS

The Pager-SMS alarm action can send standard formatted page and SMS messages to any compatible pager and mobile phone worldwide. SpaceGuard SRM supports a wide range of international telecom providers to relay these messages. Before sending pager/SMS alarm actions, the settings must be configured on the SpaceGuard SRM service. See Pager-SMS service configuration for details.

Sender
The telephone number of the (mobile) phone sending the actual pager/SMS message. This field has to be specified for telecom operators who check the number against their database to see if the target is on subscription. This field can be specified using the standard TAPI formatting rules.

Recipient
The destination pager or mobile phone number receiving the message. This field can be specified using the standard TAPI formatting rules.

Message
Compose the message. You can use all sorts of keywords in this message, SpaceGuard SRM will fill them in once the alarm action is executed. For a detailed list of all usable keywords, see Keywords.

**Default messages**
You can save your predefined messages using the keywords for easy setup later on. When the message has been composed, click "Save as..." to save the current message (destination is not saved). To use a default message, select one from the default messages dropdown menu.

**Test**
Clicking this button will send the currently specified message to its destination. Use this method to test if the SpaceGuard SRM service can successfully access the modem and send the message. Keywords will be ignored when testing pager/SMS messages.

**See Also:**
- Alarm Action Overview
- Alarm Action Popup
- Alarm Action Email (SMTP)
- Alarm Action Email (MAPI)
- Alarm Action Log
- Alarm Action Command
- Alarm Action Revoke Access
- Alarm Action Options
- Keywords
**Alarm Action Log**

SpaceGuard SRM can write an entry in the application log as an alarm action. The source will be 'SpaceGuard SRM' and the event log entry's contents can be modified by editing the Message box.

**Message**
Compose the message. You can use all sorts of keywords in this message, SpaceGuard SRM will fill them in once the alarm action is executed. For a detailed list of all usable keywords, see **Keywords**.
Several Escape characters can be used to properly format a message:

<table>
<thead>
<tr>
<th>Escape Character</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>/t</td>
<td>Horizontal Tab</td>
</tr>
<tr>
<td>/v</td>
<td>Vertical Tab</td>
</tr>
</tbody>
</table>

**Type**
• **Error:** The event in the event log will be flagged as an error.
• **Warning:** The event in the event log will be flagged as a warning.
• **Informational:** The event in the event log will be flagged as an informational message.

**Default messages**
You can save your predefined messages using the keywords for easy setup later on. When the message has been composed, click "**Save as...**" to save the current message (destination is not saved). To use a default message, select one from the **default messages** dropdown menu.

**Test**
Clicking this button will write a test entry into the application log of the computer running the SpaceGuard SRM service. Use this method to test if the SpaceGuard SRM service can successfully access and write to the event log. Keywords will be ignored when testing event log messages.

See Also:
- Alarm Action Overview
- Alarm Action Popup
- Alarm Action Email (SMTP)
- Alarm Action Email (MAPI)
- Alarm Action Pager-SMS
- Alarm Action Command
- Alarm Action Revoke Access
- Alarm Action Options
- Keywords
Alarm Action Command

The command alarm action can execute any kind of script, utility or batch file using parameters. These parameters can be composed by using SpaceGuard SRM keywords. Command alarm actions are executed by the SpaceGuard SRM service and run using its security context. Note that the SpaceGuard SRM service waits for the command to complete, so if the batch file contains a loop, the SpaceGuard SRM service will stop responding. Therefore we always advise to test the command first to see the results.

Command line:
Takes any UNC or absolute path with command as input. Note that if you specify a standard executable, you must include the extension (.exe) in the command specification, otherwise the path environment variables are ignored.

Run command undetached:
This will cause the SpaceGuard SRM service to execute the command without waiting for any return value or code. This is useful for scripts that take some time to complete.
See Also:
Alarm Action Overview
Alarm Action Popup
Alarm Action Email (SMTP)
Alarm Action Email (MAPI)
Alarm Action Pager-SMS
Alarm Action Log
Alarm Action Revoke Access
Alarm Action Options
Keywords
Alarm Action Revoke Access

The revoke access alarm action can be used to deny write access to the quota's directory for a single user or an entire group of users. When linked to a certain quota limit, SpaceGuard SRM will revoke the access rights by setting explicit 'Deny' write in the directory's ACL. When performing the revoke, the SpaceGuard SRM service will set the new ownership of that directory to "Administrators".

When the limit is no longer exceeded, SpaceGuard SRM will revert back to the original access rights and restore the ACL including the owner to its original state. This also happens when deleting a quota that was previously revoked by SpaceGuard SRM.

User or Group

- **Revoke access from the user account associated with this quota**: Select this to revoke the access of the user that is assigned to the quota. These accounts are assigned to the quota through **automatic user assignment**.
• **Specify user or group**: Enter the name of one or more users and groups for which the access needs to be revoked or click on the browse button to select them from a network tree.

**Ownership**

• **Take ownership**: This setting allows you to change the owner of files and directories that have write access revoked. By doing this, the previous owner is not able to restore his write access until the directory size is under the quota limit.

• **Use account**: Enter the name of the account that must be the (temporary) owner of the revoked file or directory.

**See Also:**
- Alarm Action Overview
- Alarm Action Popup
- Alarm Action Email (SMTP)
- Alarm Action Email (MAPI)
- Alarm Action Pager-SMS
- Alarm Action Log
- Alarm Action Command
- Alarm Action Options
- Keywords
Alarm Action Options

This dialog sets the global options valid for most alarm actions. You can specify if you want the alarm action to be executed when the limit is either exceeded or the user is actually dropping below the limit. Also, delay and repetition options are available. For more information on all alarm actions, see Alarm Actions overview.

When

Quota limits are triggered when a quota directory passes the specified limit. Alarm actions within that quota limit can be executed when the quota directory exceeds that limit or when it drops below that limit.

- **Exceeding limit**: The alarm action is executed if the quota directory size exceeds the specified limit.
- **Dropping below limit**: The alarm action is executed when the quota directory size drops below the limit.
Please note: When a new quota is created all alarm actions will be executed for the limits that exceed the directory size. The ‘Dropping below limit’ alarm actions will not be executed when creating a quota.

◆ Delay

- **Execute alarm action immediately**: The alarm action is executed as soon as the limit is passed.
- **Specify the delay of the alarm action execution (seconds)**: The alarm action is executed after the limit is passed and the specified amount of seconds have passed.

◆ Repetition

- **Do not repeat the alarm action**: The alarm action will not be repeated after it has been executed.
- **Repeat the alarm action unlimited times**: The alarm action will be repeated until the limit is no longer triggered. Enter a delay in seconds between the repetitions in the ‘Repeat delay’ edit box.
- **Specify the number of repetitions**: Enter the number of times that the alarm action must be executed. Enter a delay in seconds between the repetitions in the ‘Repeat delay’ edit box.
- **Repeat delay (seconds)**: If the alarm action is repeated several times, a delay can be entered before the alarm action is executed again.

Please note: Every time that an alarm action is executed SpaceGuard SRM verifies if the limit is still triggered. If the limit is not triggered at the time of execution the alarm action will not be executed.

See Also:
- Alarm Action Overview
- Alarm Action Popup
- Alarm Action Email (SMTP)
- Alarm Action Email (MAPI)
- Alarm Action Pager-SMS
- Alarm Action Log
- Alarm Action Command
- Alarm Action Revoke Access
- Keywords
Keywords

Keywords can be used to specify text in quota limit alarm actions. The actual text is generated at runtime. For instance, you can configure an Email alarm action message to contain the actual size of a quota directory by specifying a keyword. At the moment you define the contents of the message, the actual size of the quota directory (when the alarm action is executed) is not known. So you cannot specify the value. Instead, you specify a keyword, representing the quota directory size.

This is a list of the keywords used in SpaceGuard SRM:

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>%COMPUTERNAME%</td>
<td>The computer on which the SpaceGuard SRM service is running.</td>
</tr>
<tr>
<td>%DATE%</td>
<td>The date (mm-dd yyyy) at which the alarm action is executed.</td>
</tr>
<tr>
<td>%DIRECTORY_SIZE%</td>
<td>The current directory size.</td>
</tr>
<tr>
<td>%DOMAIN%</td>
<td>The domain in which the SpaceGuard SRM service is running.</td>
</tr>
<tr>
<td>%GROUP_MEMBERS_EMAIL%</td>
<td>This keyword retrieves the Email addresses from every user in the groups that are assigned to the quota.</td>
</tr>
<tr>
<td>%QUOTA_ALARMACTION_EXECUTION_COUNT%</td>
<td>The number of times that the alarm action has been executed.</td>
</tr>
<tr>
<td>%QUOTA_ALARMACTION_FAIL_COUNT%</td>
<td>The number of times that the alarm action has failed to execute.</td>
</tr>
<tr>
<td>%QUOTA_ALARMACTION_LAST_EXECUTION_TIME%</td>
<td>The time that the alarm action was last executed.</td>
</tr>
</tbody>
</table>

This is an example of an Email alarm action message:

To: %GROUP_MEMBERS_EMAIL%

Subject: %COMPUTERNAME% %DIRECTORY_SIZE% Quota Alert

The user %USER% has reached their quota limit. The current size of the directory is %DIRECTORY_SIZE%. Please take appropriate action.

Sent on %DATE% at %TIME%
%QUOTA_ALARMACTION_STATUS% The status of the alarm action.
%QUOTA_DIRECTORY% The full quota directory.
%QUOTA_DRIVE% The drive on which the quota resides. (e.g. c:)
%QUOTA_LIMIT_NAME% The name of the quota limit.
%QUOTA_LIMIT_SIZE% The size of the quota limit.
%QUOTA_LIMIT_STATE% The current state of the quota limit.
%QUOTA_LIMIT_TIME_OVER_LIMIT% The time when the quota limit was last exceeded.
%QUOTA_LIMIT_TIME_UNDER_LIMIT% The time when the size last dropped below the quota limit.
%QUOTA_LIMITSSET_NAME% The name of the quota limitset.
%QUOTA_NUMBEROF_ALARMACTION% The number of alarm actions.
%QUOTA_NUMBEROF_LIMITS% The number of limits attached to this quota.
%QUOTA_REMAINING% The amount of space left or how far over based on the quota size.
%QUOTA_SIZE% The size of the quota.
%RELATIVE_QUOTA_DIRECTORY% The relative directory of the quota path. If the path is 'c:\Users\John' the keyword will resolve to 'John'.
%TIME% The time (hh:mm:ss) at which the alarm action is executed.
%USER% The user(s) and group(s) that are assigned to the quota.
%USER_DOMAIN% The domain part of the user that is assigned to the quota.
%USER_NAME% The user part of the full name of the user that is assigned to the quota.
%USERNAME_DIRECTORY% The same as %RELATIVE_QUOTA_DIRECTORY%.

See Also:
Alarm Action Overview
Alarm Action Popup
Alarm Action Email (SMTP)
Alarm Action Email (MAPI)
Alarm Action Pager-SMS
Alarm Action Log
Alarm Action Command
Alarm Action Revoke Access
Alarm Action Options
Print

SpaceGuard SRM can print quotas in a definable report. To customize the way quotas are printed, select **Page Setup...** from the **File** menu and customize the page layout by adding/removing columns and changing their size:

![SpaceGuard SRM - Page setup dialog]

By checking or unchecking the checkboxed columns can either be included or excluded. To change the order of the columns select an item from the list and click on one of the arrow buttons.

When you are finished configuring the desired columns click on the tab **Layout**. You will be presented with the following display:
The header and footer will be printed on top and bottom of each page. Three different keywords can be used:

%DATE% - The current date
%TIME% - The current time
%PAGENUMBER% - The page number

Three different fonts can be set.

**Normal:** This font is used when printing normal text.
**Header - Footer:** This font is used when printing the header and footer.
**Titles:** This font is used when printing titles.

To print the quotas select **Print...** from the **file** menu. You can also print a selection of quotas.
Auto-Add Quotas

Auto-Add Quota Overview

An Auto-Add quota removes the need to add a quota each time a directory is added. Each time a directory is created (inside a specified directory) a quota is set on that directory using a predefined policy or custom sizes/limits.

The SpaceGuard SRM service continuously scans the local computer's file system for directory changes. If a new subfolder is created under the branch where the Auto-Add quota is active, SpaceGuard SRM automatically creates a new quota according to the Auto-Add policy. Also, whenever subfolders under an Auto-Add quota root are removed, the related quota is also removed automatically.

This is extremely useful for large and rapidly changing home directory shares. Each time a new home folder inside for example G:\UserData is created, you want each home directory to get a 50MB quota with a standard size and limit policy. All you have to do is create an Auto-Add quota on G:\UserData, customize the sizes and limits, and notice how SpaceGuard SRM creates all quota's automatically.

View Auto-Add Video Demo (Requires Windows Media Player)

Auto-Add quota's are displayed in the Quota Overview window.

See also:
Add Auto-Add
Edit Auto-Add
Remove Auto-Add
Add Auto-Add

An Auto-Add quota removes the need to add a quota each time a directory is added. Each time a directory is created (inside a specified directory) a quota is set on that directory using a predefined policy. The SpaceGuard SRM service

Select "Quota - Auto-Add - Add" from the menu or right-click and select Auto-Add - Add. The Auto-Add wizard will be displayed:

Using the Exclude directories from Auto-Add window, you can specify which directories should not receive an automatic quota. These directories don't have to exist yet, when scanning the file system for new directories, SpaceGuard SRM will ignore all directories added in this window.

Continue creating the Auto-Add quota in the same way as regular quota's, for more details see: Quota Size.

See also:
Add Directory Quotas
Quota Policy
Quota Size
Configure Limit
Save Quota Policy
Edit Auto-Add

The Auto-Add properties page may be accessed by selecting an Auto-Add directory from the network tree and
- right clicking the mouse and selecting Auto-Add - Edit
- selecting Auto-Add - Edit from the Quota menu

The properties dialog contains four tabs, each tab will be discussed separately:
- Edit Quota Size
- Edit Quota Limits
- Edit Quota User
- Edit Quota Policy

See Also:
Add Auto-Add
Edit Quota Limits
Edit Quota Size
Edit Quota User
Edit Quota Policy
Remove Auto-Add
Remove Auto-Add

SpaceGuard SRM Auto-Add quotas may be deleted by:

- Selecting an Auto-Add directory and selecting **Auto-Add > Remove** from the **Quota** menu.
- Right-click on the Auto-Add directory and select **Auto-Add > Remove** from the menu.
- Selecting an Auto-Add quota from the Auto-Add Quota list in the **quota overview** and clicking **Delete Auto-Add Quota** from the right mouse button menu.

It is possible to select more than one Auto-Add directory for deletion at a time, use the standard windows ctrl-click/shift-click commands to do so.

The quotas that were created by Auto-Add will not be removed.
Command Line Interface

SpaceGuard SRM Access Analyzer

The SpaceGuard SRM Access Analyzer offers the possibility to restore access rights set by SpaceGuard SRM using a command. Access rights set by SpaceGuard SRM service via the "revoke access" can be restored into the original settings.

From directory "E:\Program Files\Tools4ever\SpaceGuard SRM\SgFS" the following commands can be entered:

**SGFS <path>** Gives an overview of the ownership of the files in the path specified.

**SGFS <path> RESET** Resets the ownership of the files in the path specified.

**SGFS <path> RESETFAST** Resets the ownership of the files in the path specified in a faster way.

Examples:

a) Get an overview of the ownership of the files in a directory. "-rm-" indicates that file or directory have no access for the account mentioned.

command:  
response:  
File/Dir: F:\music\rock, Owner: BUILTIN/Administrators
Type Flags(H) Size Mask(H) Account name
  0 3(H) 20 001f01ff(H) \Everyone

File/Dir: F:\music\rock\deeppurple, Owner: BUILTIN/Administrators
Type Flags(H) Size Mask(H) Account name
  1 0(H) 36 000c0006(H) COINS\Guest -rm-
  0 3(H) 20 001f01ff(H) \Everyone
  0 0(H) 24 00000000(H) BUILTIN\Administrators -rm-

File/Dir: F:\music\rock\ledzeppelin, Owner: BUILTIN/Administrators
Type Flags(H) Size Mask(H) Account name
  0 3(H) 20 001f01ff(H) \Everyone

File/Dir: F:\music\rock\deeppurple, Owner: BUILTIN/Administrators
Type Flags(H) Size Mask(H) Account name
  1 0(H) 36 000c0006(H) COINS\Guest -rm-
  0 3(H) 20 001f01ff(H) \Everyone
  0 0(H) 24 00000000(H) BUILTIN\Administrators -rm-

File/Dir: F:\music\rock\deeppurple\members.txt, Owner: BUILTIN/Administrators
Type Flags(H) Size Mask(H) Account name
  1 0(H) 36 000c0006(H) COINS\Guest -rm-
  0 0(H) 20 001f01ff(H) \Everyone
  0 0(H) 24 00000000(H) BUILTIN\Administrators -rm-

File/Dir: F:\music\rock\deeppurple\song1.txt, Owner: BUILTIN/Administrators
Type Flags(H) Size Mask(H) Account name
  1 0(H) 36 000c0006(H) COINS\Guest -rm-
  0 0(H) 20 001f01ff(H) \Everyone
SpaceGuard SRM

0 0(H) 24 00000000(H) BUILTIN\Administrators -rm-

File/Dir: F:\music\rock\deeppurple\song2.txt, Owner: BUILTIN\Administrators
Type Flags(H) Size Mask(H) Account name
1 0(H) 36 000c0006(H) COINS\Guest -rm-
0 0(H) 20 001f01ff(H) \Everyone
0 0(H) 24 00000000(H) BUILTIN\Administrators -rm-

b) Reset the security settings of all the files in a directory.

command: SGFS F:\music\rock RESET
response: File/Dir: F:\music\rock, Owner: BUILTIN\Administrators
Type Flags(H) Size Mask(H) Account name
0 3(H) 20 001f01ff(H) \Everyone

File/Dir: F:\music\rock\deeppurple, Owner: BUILTIN\Administrators
Type Flags(H) Size Mask(H) Account name
1 0(H) 36 000c0006(H) COINS\Guest -rm-
0 3(H) 20 001f01ff(H) \Everyone
0 0(H) 24 00000000(H) BUILTIN\Administrators -rm-

File/Dir: F:\music\rock\ledzeppelin, Owner: BUILTIN\Administrators
Type Flags(H) Size Mask(H) Account name
0 3(H) 20 001f01ff(H) \Everyone

File/Dir: F:\music\rock\deeppurple, Owner: BUILTIN\Administrators
Type Flags(H) Size Mask(H) Account name
0 3(H) 20 001f01ff(H) \Everyone

File/Dir: F:\music\rock\deeppurple\members.txt, Owner: BUILTIN\Administrators
Type Flags(H) Size Mask(H) Account name
1 0(H) 36 000c0006(H) COINS\Guest -rm-
0 0(H) 20 001f01ff(H) \Everyone
0 0(H) 24 00000000(H) BUILTIN\Administrators -rm-

File/Dir: F:\music\rock\deeppurple\song1.txt, Owner: BUILTIN\Administrators
Type Flags(H) Size Mask(H) Account name
1 0(H) 36 000c0006(H) COINS\Guest -rm-
0 0(H) 20 001f01ff(H) \Everyone
0 0(H) 24 00000000(H) BUILTIN\Administrators -rm-

File/Dir: F:\music\rock\deeppurple\song2.txt, Owner: BUILTIN\Administrators
Type Flags(H) Size Mask(H) Account name
1 0(H) 36 000c0006(H) COINS\Guest -rm-
0 0(H) 20 001f01ff(H) \Everyone
0 0(H) 24 00000000(H) BUILTIN\Administrators -rm-

c) Fast reset the security settings of all the files in a directory.

command: SGFS F:\music\rock RESETFAST
response: File/Dir: F:\music\rock,
File/Dir: F:\music\rock\ledzeppelin,
File/Dir: F:\music\rock\deeppurple,
File/Dir: F:\music\rock\deeppurple\members.txt,
File/Dir: F:\music\rock\deeppurple\song1.txt,
File/Dir: F:\music\rock\deeppurple\song2.txt,
Command Line Interface overview

The Command Line Interface can be used to "LIST", "EXPORT", "ADD", "ADDQUOTA", "EDIT" and "DELETE" quotas using a command "SgSRMCli" from the command prompt. These commands can be used in scripts for configuring your Spaceguard SRM quotas.

From directory "C:\Program Files\Tools4ever\SpaceGuard SRM\SgAPI" the following commands can be entered:

Add:
SgSRMCli ADD <COMPUTER> "<DIRECTORY>" "[LIMIT]" "[LIMIT]" .... "[LIMIT]"

Add (version 2):
SgSRMCli ADDQUOTA <COMPUTER> [OPTIONS]

Edit:
SgSRMCli EDITQUOTA <COMPUTER> [OPTIONS]

Delete:
SgSRMCli DELETE <COMPUTER> <DIRECTORY>

List:
SgSRMCli LIST <COMPUTER> [DIRECTORY] [COMMAND]

Export:
SgSRMCli EXPORT <COMPUTER> [OPTIONS]

The command line interface can also be used to install local or remote services from a batch file or script, allowing unattended installations. The CLI application provides options to "INSTALL", "UNINSTALL" and "CONFIGURE" local and remote services, facilitating all basic installation and configuration functions provided by the SpaceGuard SRM console.

Install (remote) service:
SgSRMCli INSTALL <COMPUTER> [OPTIONS]

Uninstall (remote) service:
SgSRMCli UNINSTALL <COMPUTER>

Configure (remote) service:
SgSRMCli CONFIG <COMPUTER> [OPTIONS]

A list of options can be displayed from the command line by entering SgSRMCli followed by the command of which the options need to be displayed.

For instance: 'SgSRMCli ADDQUOTA' displays a list of options for the 'ADDQUOTA' command.

See also:
CLI Add Quota
CLI Add Quota (Version 2)
CLI Delete Quota
CLI List Quota
CLI Export Quota
CLI Install Service
CLI Uninstall Service
CLI Configure Service
CLI Add Quota

To add a quota using the Command Line Interface the following command needs to be entered:

```
SgSRMCli ADD <COMPUTER> "<DIRECTORY>" "[LIMIT]" "[LIMIT]" .... "[LIMIT]"
```

where:

- **COMPUTER** The computer on which the SpaceGuard SRM service is running.
- **DIRECTORY** Directory for which quotas need to be added.
- **LIMIT** Zero or more limits can be specified as:
  
  
  "Size,A([ALARM ACTION])A,A([ALARM ACTION])A"

  
  where:
  
  "Size" is the limit size in MB. The highest limit will be the 100 percent limit.

  
  From zero up to two alarms can be specified.

Specify alarm actions as: ‘{<TYPE>;<COUNT>;<DELAY>;<TYPE specific data}>’.

- **<TYPE>** may be one of the following:
  
  - **COMMAND** A command line utility (e.g. executable, script, batch) will be executed when the limit is exceeded.
    
    [**TYPE specific data**]: command line (e.g. batch.bat)

  - **EMAIL** An E-mail will be sent when the limit is exceeded.
    
    [**TYPE specific data**]: E-Mail addresses (separated by comma);[Subject];Message

  - **EMAILMAPI** An E-mail using MAPI will be sent when the limit is exceeded.
    
    [**TYPE specific data**]: E-Mail addresses (separated by comma);[Subject];Message

  - **LOG** An entry in the application event log will be made when the limit is exceeded.
    
    [**TYPE specific data**]: Message

  - **PAGERSMS** A pager or SMS message will be sent when the limit is exceeded.

    [**TYPE specific data**]: Sender;Destination;Message

  - **POPUP** A popup message will be sent when the limit is exceeded.

    [**TYPE specific data**]: Destinations (separated by comma);Message

  - **REVOKEACCESS** Access to the directory will be revoked when the limit is exceeded and reset when the directory size drops below the limit.

    [**TYPE specific data**]: [NewOwner];User

- **[COUNT]** Number of times the alarm action will be repeated after the limit has triggered.

Enter 0 for no repetition or -1 for infinite repetitions. Default is 0.

- **[DELAY]** Delay in seconds between repetitions. Default is 5.

**Examples:**

a) Add a quota on a specific directory with quota size 10 MB and a pop-up alarm when limit is exceeded.

command:   
```
SgSRMCli ADD <SERVER> F:\UserData\JSmith "10,A(POPUP;1;5;JSmith;You exceeded the limit!)A"
```
b) Add a quota on a specific directory with quota size 1 MB and an e-mail when limit is exceeded.

command: `SgSRMCli ADD <SERVER> F:\UserData\JSmith "1,A(EMAIL;1;5;j.smith@mycompany.com;You exceeded the limit!)A"

response: Number of limits: 1
Limit number 1:
  Limit size: 1.00 MB
  Number of alarm actions: 1
  Alarm action number 1:
  Type of Alarm Action: EMAIL.
  Destinations: j.smith@mycompany.com
  Subject: You exceeded the limit!
  RepeatCount: 1
  RepeatDelay: 5
  Quota directory: F:\UserData\JSmith

  Successfully added the quota for directory 'F:\UserData\JSmith' on computer <SERVER>.


c) Add a quota of 10 MB with multiple limits (100%, 80%) on a specific directory.

command: `SgSRMCli ADD <SERVER> F:\UserDate\JSmith "10,A(POPUP;1;5;JSmith;Reached 100%%)A" "8,A(POPUP;1;5;JSmith;Reached 80%%)A"

response: Number of limits: 2
Limit number 1:
  Limit size: 10.00 MB
  Number of alarm actions: 1
  Alarm action number 1:
  Type of Alarm Action: POPUP.
  Destinations: JSmith
  Message: Reached 100%
  RepeatCount: 1
  RepeatDelay: 5
Limit number 2:
  Limit size: 8.00 MB
  Number of alarm actions: 1
  Alarm action number 1:
  Type of Alarm Action: POPUP.
  Destinations: JSmith
  Message: Reached 80%
  RepeatCount: 1
RepeatDelay: 5
Quota directory: F:\UserData\JSmith

Successfully added the quota for directory 'F:\UserData\JSmith' on computer <SERVER>.
CLI Delete Quota

To delete a quota using the Command Line Interface the following command needs to be entered:

*SgSRMcli DELETE <COMPUTER> <DIRECTORY>*

where:

COMPUTER The computer on which the SpaceGuard SRM service is running.

DIRECTORY Directory for which quotas need to be deleted.

**Examples:**

a) Delete quota(s) from a directory:

command: *SgSRMcli DELETE jupiter F:\ music\rock*

response: Removing quota from directory F:\music\rock on computer jupiter.

Successfully removed the quota from directory F:\music\rock on computer jupiter.
CLI List Quota

To list a quota or quotas using the Command Line Interface the following command needs to be entered:

**SgSRMClI LIST <COMPUTER> [DIRECTORY] [COMMAND]**

where:
- COMPUTER: The computer on which the SpaceGuard SRM service is running.
- DIRECTORY: Directory for which quotas need to be listed.
- COMMAND: Optional: Can be either "1" to include subdirectories or "0" to display quota information for the entered directory only. Default is "0".

**Examples:**

a) List of all quotas on disk F and all its subdirectories.

command:   
SgSRMClI LIST jupiter F:\ 1  
response:  
Directory: F:\music, Current size: 2.19 MB, Number of limits: 1  
Limit size: 2.00 MB, Exceeded, Time exceeded: 10:21 10-02 2003  
Directory: F:\music\grunge, Current size: 0.56 MB, Number of limits: 0  
Directory: F:\music\rock, Current size: 1.16 MB, Number of limits: 1  
Limit size: 1.00 MB, Exceeded, Time exceeded: 10:23 10-02 2003  
Directory: F:\music\metal, Current size: 0.00 MB, Number of limits: 0  
Directory: F:\music\alternative, Current size: 0.47 MB, Number of limits: 0

b) List of all quotas on a specific directory.

command:   
SgSRMClI LIST jupiter F:\music\rock  
response:  
Directory: F:\music\rock, Current size: 1.16 MB, Number of limits: 1  
Limit size: 1.00 MB, Exceeded, Time exceeded: 10:23 10-02 2003
**CLI Install Service**

To install a SpaceGuard SRM service on a local or remote computer using a batch file or script (unattended installation), you can use the SgSRMCLi command line interface:

\[ \text{SgSRMCLI INSTALL <COMPUTER> [OPTIONS]} \]

where:

- **COMPUTER**
  - The computer target to host the SpaceGuard SRM service.

- **OPTIONS**
  - /sd: - The source directory where the SpaceGuard SRM service files can be found. Default: current path.
  - /td: - The directory on the remote computer where the service files need to be placed. Default: 'C:\Program Files\SpaceGuard Service'.
  - /u: - The user account for the SpaceGuard SRM service. If possible use a complete name. i.e. "DOMAIN\USER" or "\COMPUTER\USER"
  - /p: - The password for the SpaceGuard SRM service user account.
  - /g: - The group to make the user account a member of. If possible use a complete name. i.e. "DOMAIN\GROUP" or "\COMPUTER\GROUP"
  - /c: - Enable the SpaceGuard service cluster version. Can be either '0' to disable the cluster version or '1' to enable the cluster version. Default: 0
CLI Uninstall Service

To uninstall a SpaceGuard SRM service on a local or remote computer using a batch file or script (unattended installation), you can use the SgSRMCLi command line interface:

SgSRMCLi UNINSTALL <COMPUTER>

where:

COMPUTER The computer on which the SpaceGuard SRM service is running.
CLI Configure Service

To configure a SpaceGuard SRM service on a local or remote computer using a batch file or script (unattended installation), you can use the SgSRMCLI command line interface:

**SgSRMCLI CONFIG <COMPUTER> [OPTIONS]**

where:

**COMPUTER**
- The computer on which the SpaceGuard SRM service is running.

**OPTIONS**
- /smtp:  - The SMTP mail server to use to send mail through.
- /mail:   - The ‘from’ mail address that is used to send mail with.
- /lc:     - The license code to use.
- /ln:     - The site license name to use.
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Enter new glossary term here:
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