Backup3G 5.1 New Features

August 17 2007

Backup3G Configuration

- Installation
- Backup Configuration
- Job: Configuration
- Tools: Items Discovery
- Tools: Browse Folders
- Tools: Add Items
- Tools: Drives
- Tools: Media Library
- Tools: Settings
- Audit Trail: Operations/Configuration

Installation

Backup Client
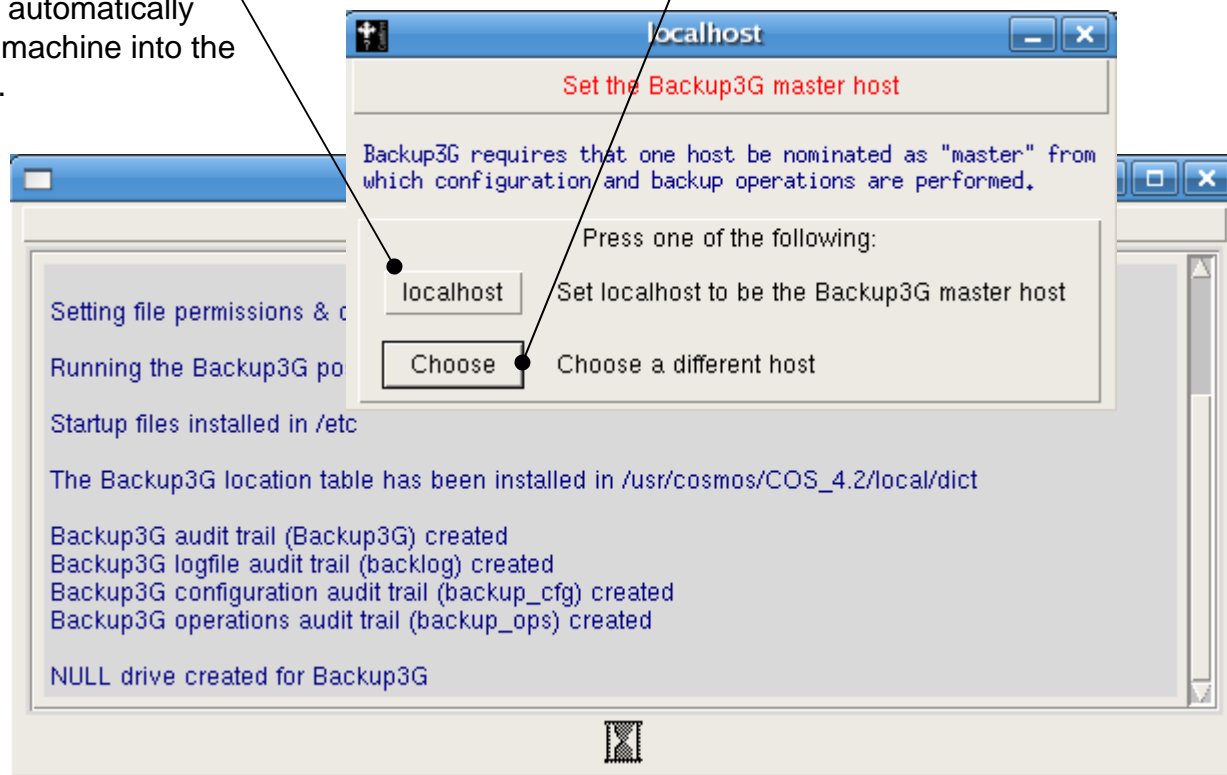
Select the master as the host.

Ensure that master is found in /etc/hosts or the DNS.

Backup Master

Select a machine as Backup Master
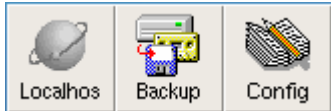
This will automatically add the machine into the hostinfo.

localhost

Set the Backup3G master host

Backup3G requires that one host be nominated as "master" from which configuration and backup operations are performed.

Press one of the following:

| localhost | Set localhost to be the Backup3G master host |
| Choose | Choose a different host |

Setting file permissions & c

Running the Backup3G po

Startup files installed in /etc

The Backup3G location table has been installed in /usr/cosmos/COS_4.2/local/dict

Backup3G audit trail (Backup3G) created
Backup3G logfile audit trail (backlog) created
Backup3G configuration audit trail (backup_cfg) created
Backup3G operations audit trail (backup_ops) created

NULL drive created for Backup3G

FUNCTIONAL SOFTWARE

Backup Configuration

FUNCTIONAL SOFTWARE

New Layout
Integrated Interface

localhost
Product Configuration
COSmanager configuration
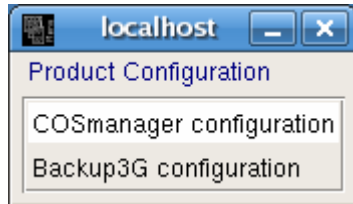Backup3G configuration

View
Configure Drives, Database Items, Settings

Tools
Configure Drives, Settings, Tables.

Virtual Tape Library & Database Items, **(add-on module)**

Help
Online Help

Release Notes

Online Issue Reporting

Online Updates
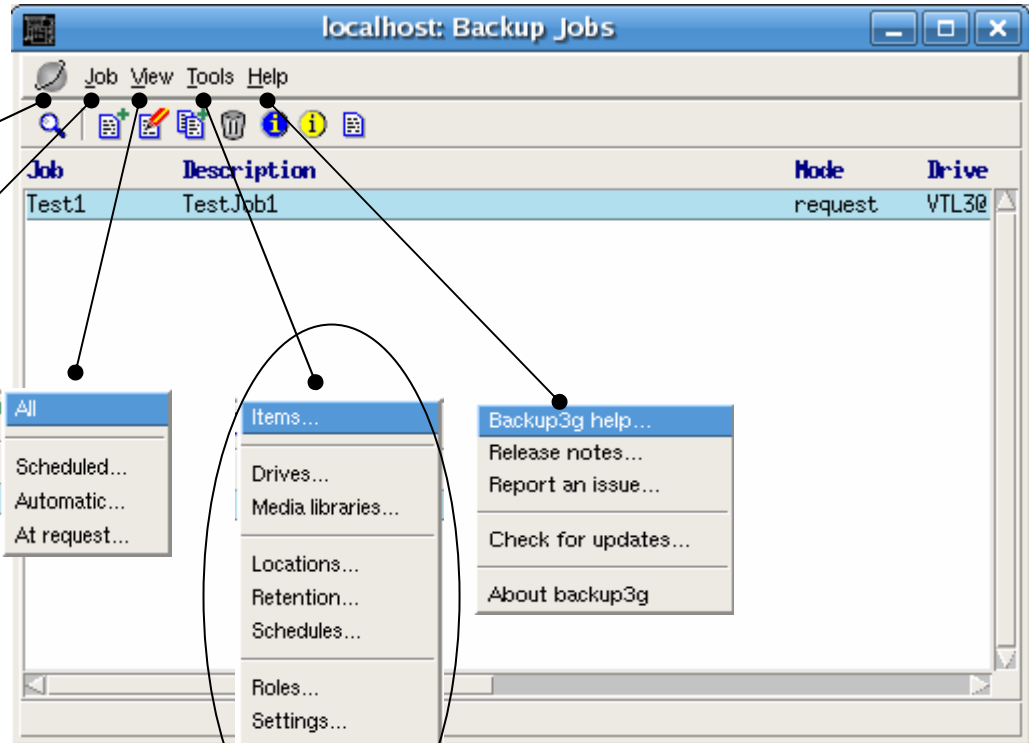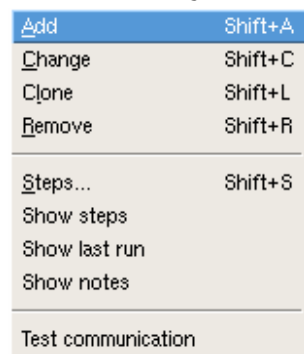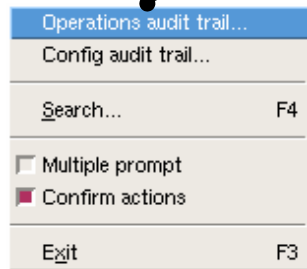
Audit Trail
Operations logs

Configuration logs

Job
Test communication

Show Last Run

Show Notes

localhost: Backup Jobs

Job View Tools Help

Job	Description	Mode	Drive
Test1	TestJob1	request	VTL3@

Operations audit trail...
Config audit trail...

Search...   F4

☐ Multiple prompt
■ Confirm actions

Exit   F3

Add	Shift+A
Change	Shift+C
Clone	Shift+L
Remove	Shift+R
Steps...	Shift+S
Show steps	
Show last run	
Show notes	
Test communication	

All
Scheduled...
Automatic...
At request...

Items...
Drives...
Media libraries...
Locations...
Retention...
Schedules...
Roles...
Settings...
Other tables...

Backup3g help...
Release notes...
Report an issue...
Check for updates...
About backup3g

Job: Configuration (1)

Enable/Disable

To enable or disable the backup job.

Automatic jobs will not run. Instead it will appear in the Backup3G Audit Trail.

Secondary Storage

Make a secondary copy of the media.

You can also schedule this to run at a later time.

Job: Configuration (2)

Notification

Specify who should receive emails.
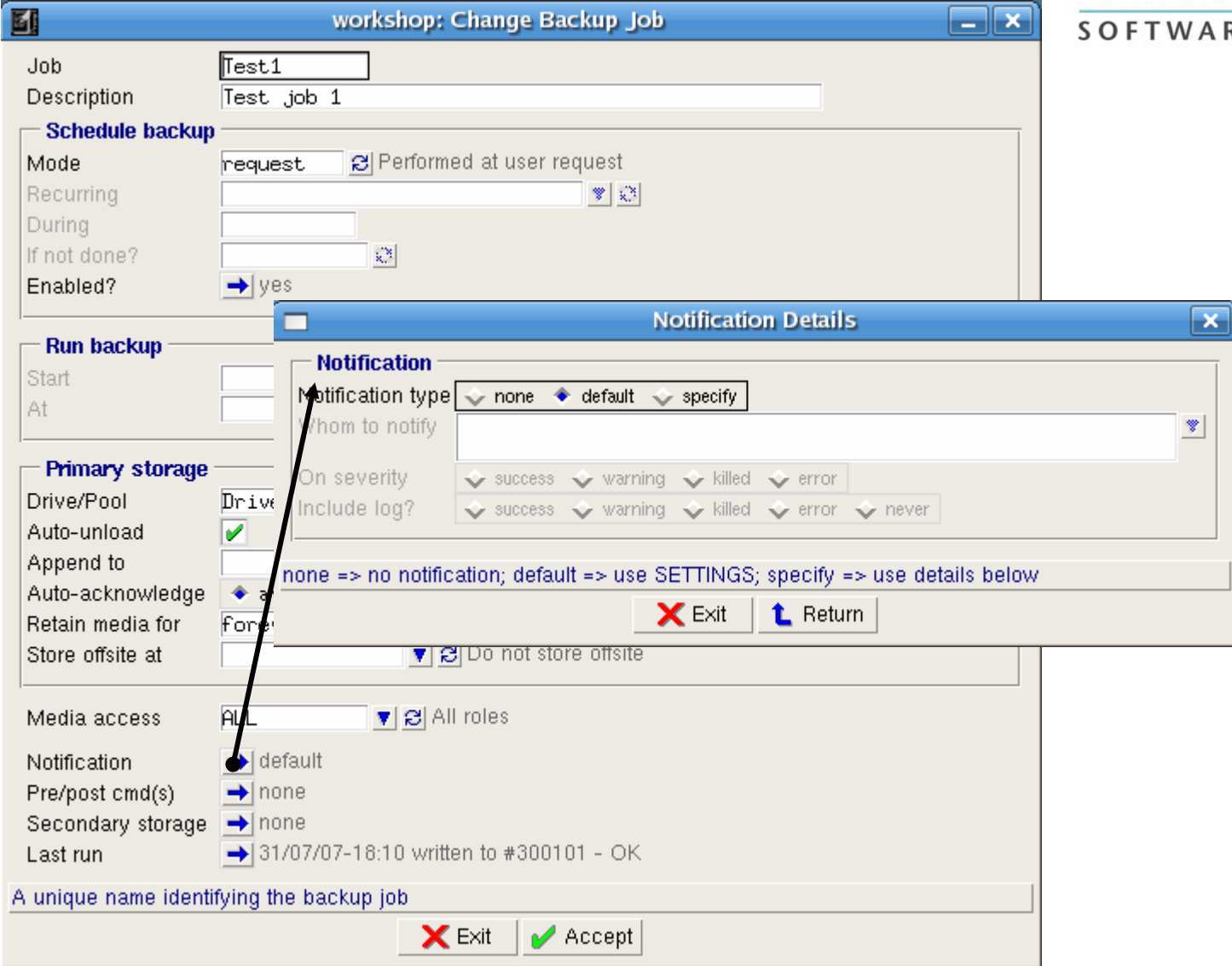
<u>None</u> : No one should receive emails.

<u>Default</u> : Define the list of recipients from "Settings"

<u>Specify</u> : Enter the emails, or the user accounts of the users.

<u>Severity</u> : Emails are only sent when the backup job ends with status : "Success", "Warning", "Killed" or on "Error"

<u>Include Log</u> ? : Attach the logfiles when backup jobs end with status : "Success", "Warning", "Killed", "Error" or "Never" – never send the logs.
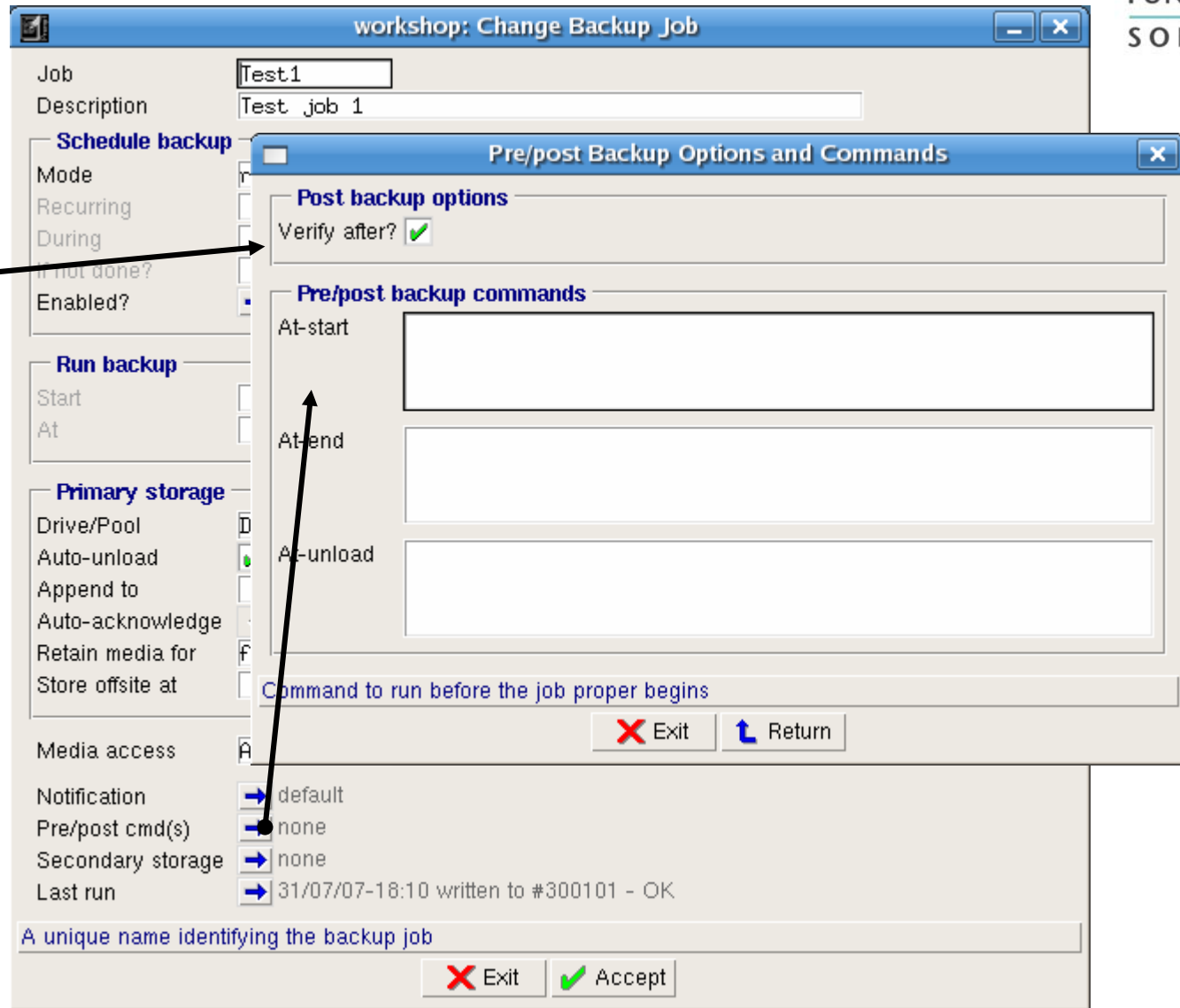
workshop: Change Backup Job

| Job | Test1 |
| Description | Test job 1 |

Schedule backup

Mode	request	Performed at user request
Recurring		
During		
If not done?		
Enabled?	→ yes	

Run backup

| Start | |
| At | |

Primary storage

Drive/Pool	Drive
Auto-unload	✔
Append to	
Auto-acknowledge	♦ a
Retain media for	fore
Store offsite at	▼ Do not store offsite

| Media access | ALL | ▼ All roles |

Notification	→ default
Pre/post cmd(s)	→ none
Secondary storage	→ none
Last run	→ 31/07/07-18:10 written to #300101 - OK

A unique name identifying the backup job

✗ Exit   ✔ Accept

Notification Details

Notification

Notification type : ○ none ● default ○ specify

Whom to notify

On severity : ○ success ○ warning ○ killed ○ error

Include log? : ○ success ○ warning ○ killed ○ error ○ never

none => no notification; default => use SETTINGS; specify => use details below

✗ Exit   ↰ Return

Job: Configuration (3)

Pre/Post Commands

<u>Verify after?</u> : This is used to scan the tape media at the end of the backup job.

You can verify the number of files and the block-size of the tape media.

Job: Configuration (4)

Last Run

Provides details of the status of previously run backup jobs. Also provides links to

1. Most recent backup log

2. All backup logs for this job.

Items: Add Items

Method Sensitive Forms

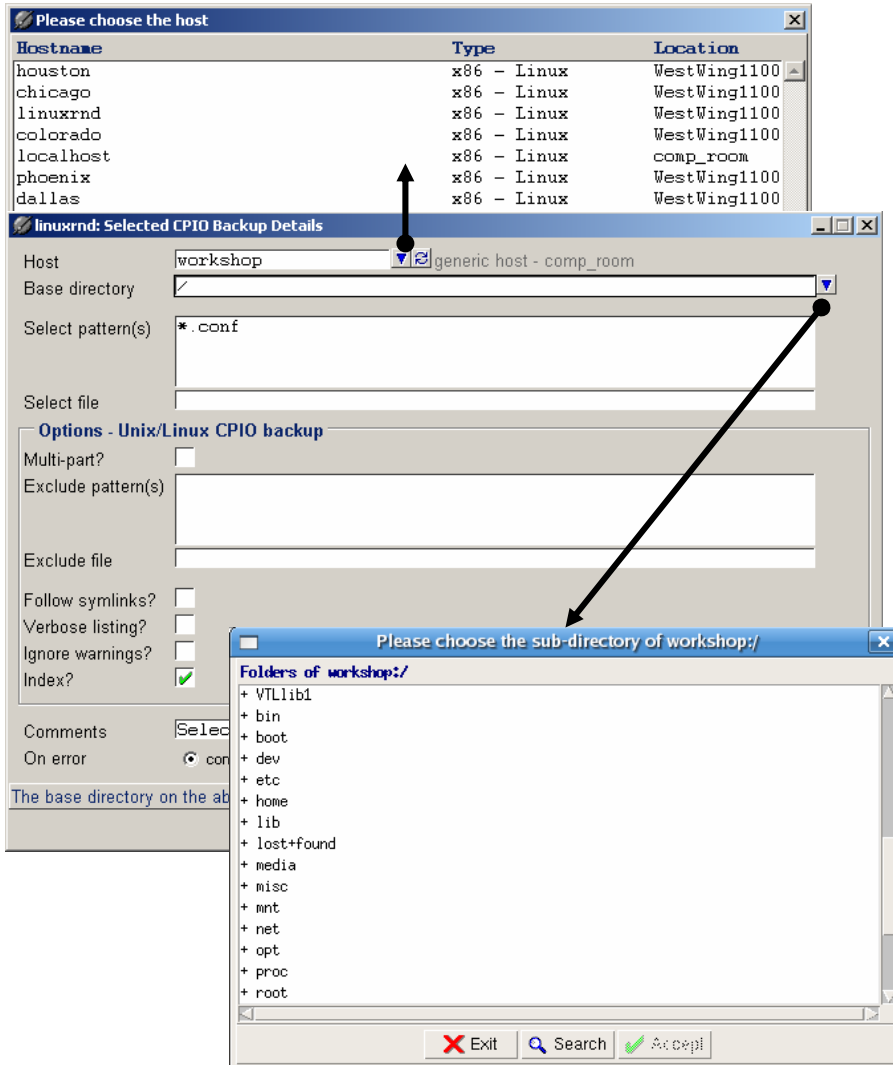Users can now choose the relevant backup methods they wish to use.

Each method will have its own form.

Forms now make it easier for users to add options to the backup methods.
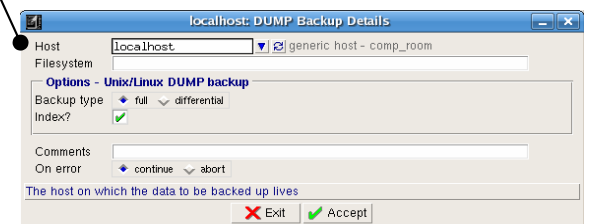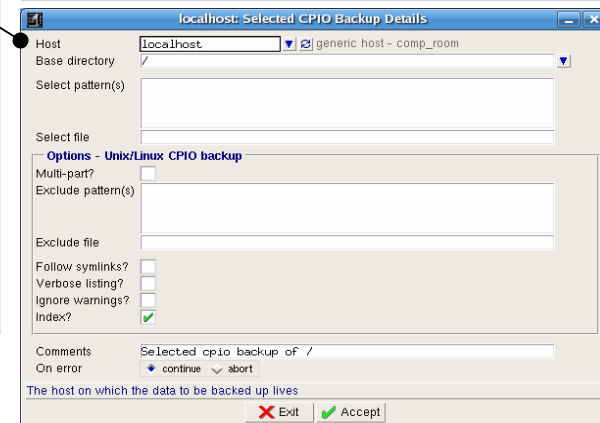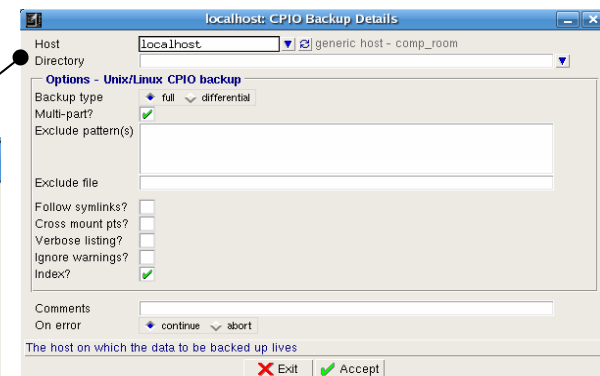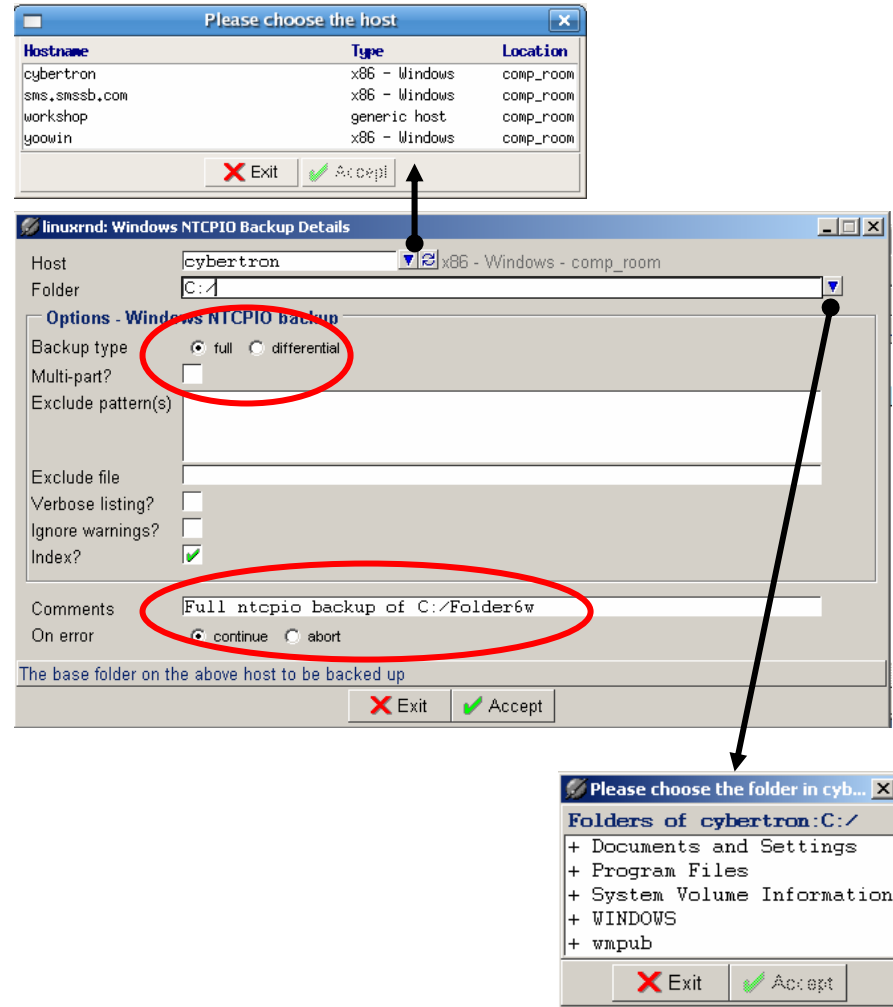
Items: Browse Folders

UNIX/Linux   Windows

Items: Discovery

Adds new Items

Discovery - finds existing volumes on the host and creates backup items for each volume.

Tools: Drives
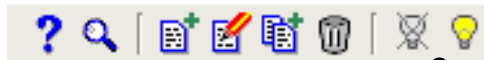
Offline/Online

New icons for offline/online of drives.

Offline drives will be highlighted in **red**.

The reason for bringing a drive offline is optional.

Tools: Media Library

Note if you view "Drives" as in the previous slide, it will display all drives.

Configure drives
Only drives associated with the Library are shown here.

Tools: Settings

Settings

Master or Per-host

DIR – Specify the
backup log directory
here. Need to restart
Backup3G
afterwards.

Notification and
severity

Report Cutoff Time

Replicate to server,
when and which
server.

localhost: Backup3G Settings

Setting

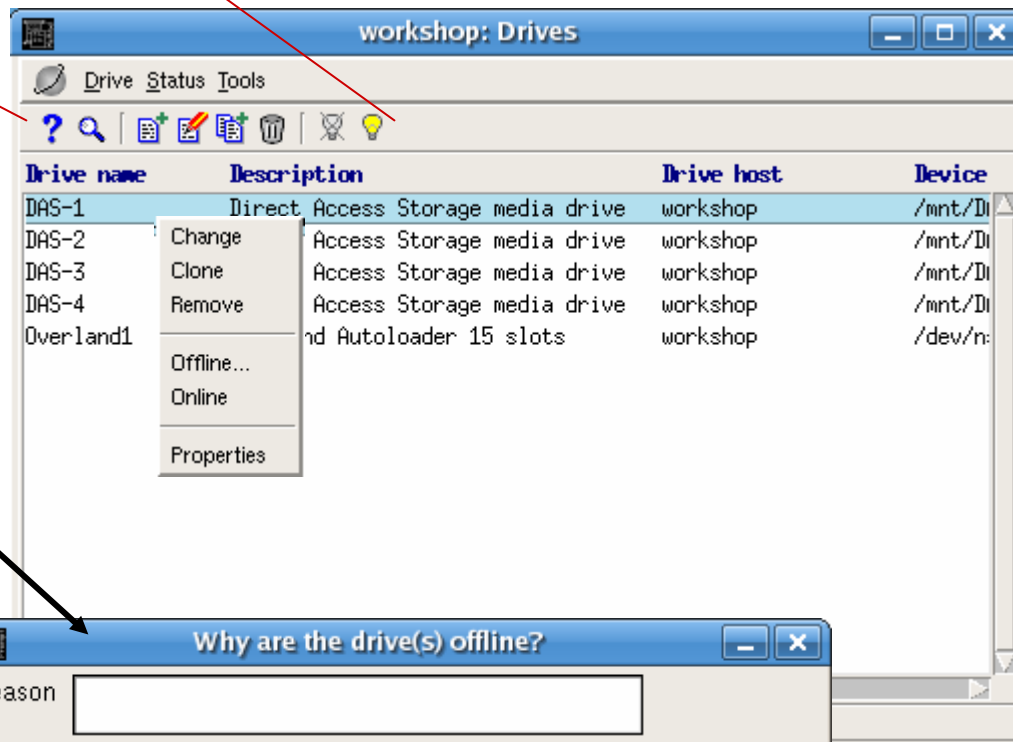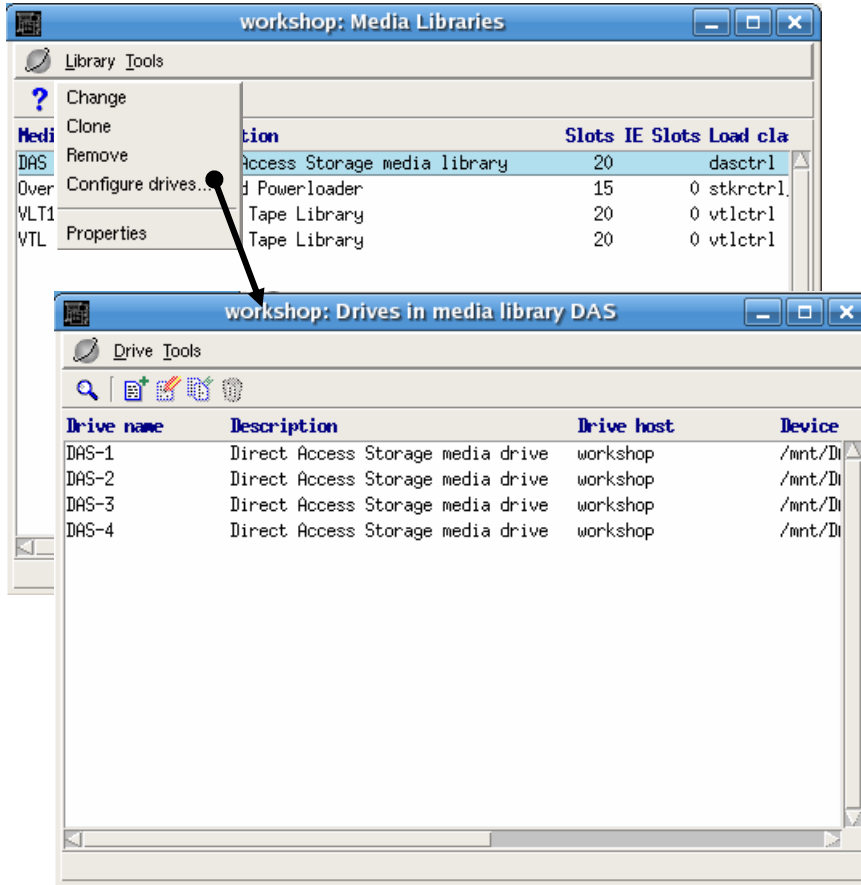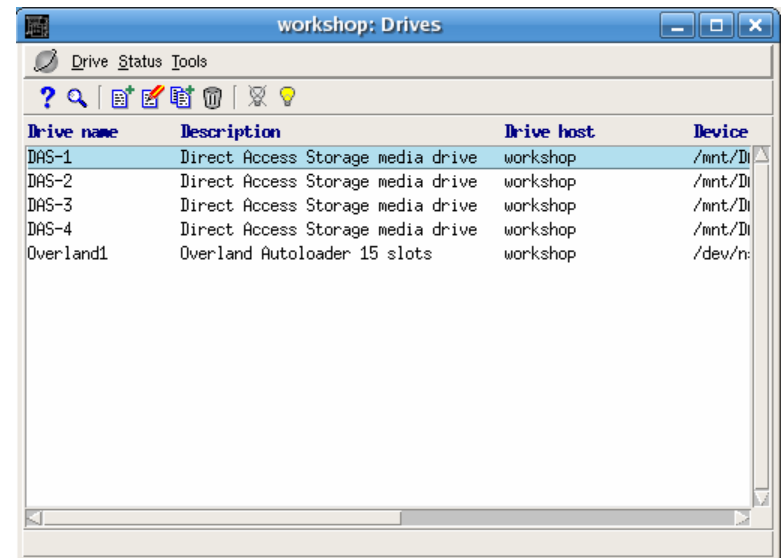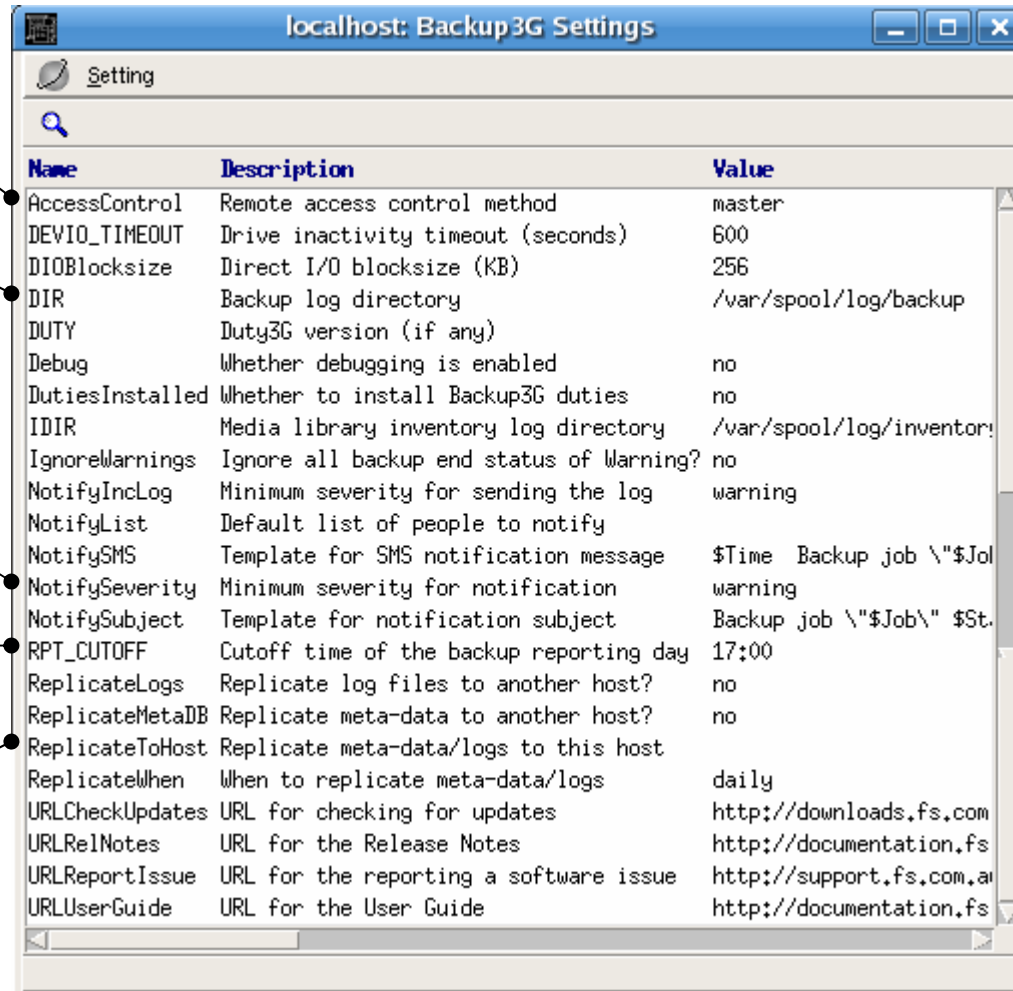| Name	Description	Value
AccessControl	Remote access control method	master
DEVIO_TIMEOUT	Drive inactivity timeout (seconds)	600
DIOBlocksize	Direct I/O blocksize (KB)	256
DIR	Backup log directory	/var/spool/log/backup
DUTY	Duty3G version (if any)	
Debug	Whether debugging is enabled	no
DutiesInstalled	Whether to install Backup3G duties	no
IDIR	Media library inventory log directory	/var/spool/log/inventory
IgnoreWarnings	Ignore all backup end status of Warning?	no
NotifyIncLog	Minimum severity for sending the log	warning
NotifyList	Default list of people to notify	
NotifySMS	Template for SMS notification message	$Time Backup job \"$Job
NotifySeverity	Minimum severity for notification	warning
NotifySubject	Template for notification subject	Backup job \"$Job\" $St.
RPT_CUTOFF	Cutoff time of the backup reporting day	17:00
ReplicateLogs	Replicate log files to another host?	no
ReplicateMetaDB	Replicate meta-data to another host?	no
ReplicateToHost	Replicate meta-data/logs to this host	
ReplicateWhen	When to replicate meta-data/logs	daily
URLCheckUpdates	URL for checking for updates	http://downloads.fs.com
URLRelNotes	URL for the Release Notes	http://documentation.fs
URLReportIssue	URL for the reporting a software issue	http://support.fs.com.a
URLUserGuide	URL for the User Guide	http://documentation.fs

Audit Trail: Operations & Config

Operations

A record of all operations performed and by which user.

Configuration

A record of all configuration changes (both old and new values are recorded), and performed by which user.
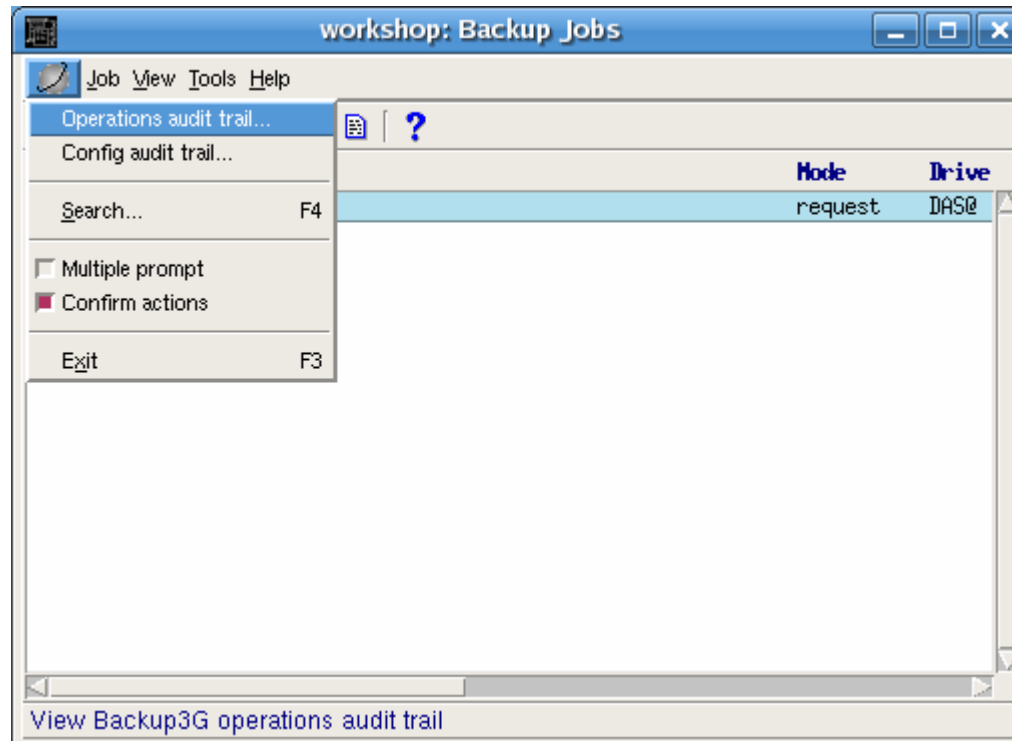
Backup3G Operations

- Jobs
- Recovery
- Media
- New Librarian Controls
- Duplicate
- Drive
- Library
- Monitor
- Audit Trail: Backup Jobs

Jobs (1)

Backup3G online Help

Oustanding / At Request Quick Buttons

A short-cut to change the view between Outstanding and At-request Backup Jobs
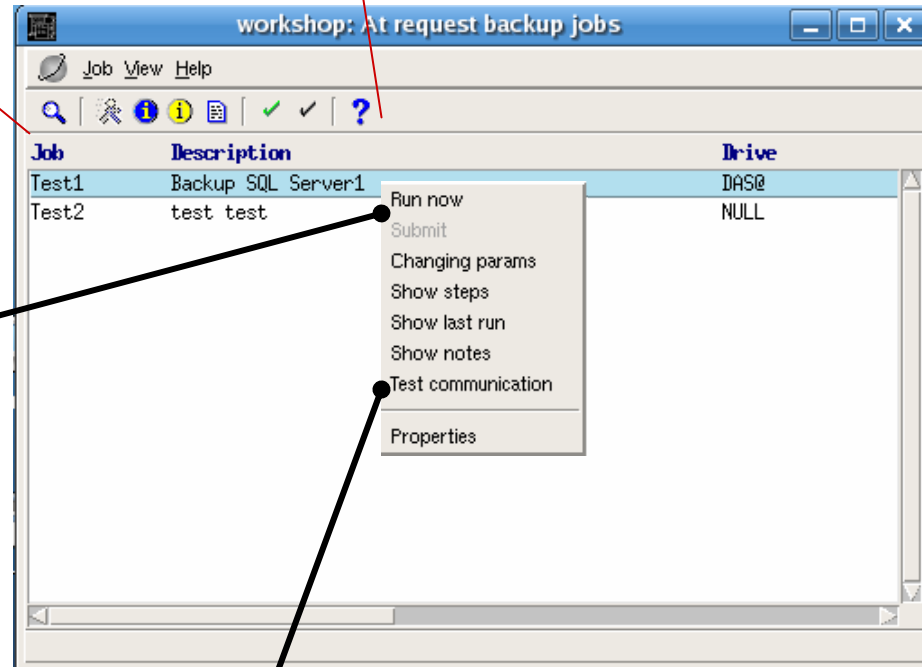
Run Now

To run a backup job, you must right-click on the job, and select "Run now".

No more double-clicking of the job to run it.

However, you can double-click on a "Scheduled" job, to "Kickoff" a backup job.

Test Communication

Will perform test communication on all the servers defined in the "Backup Steps".

Jobs (2)

Show Steps

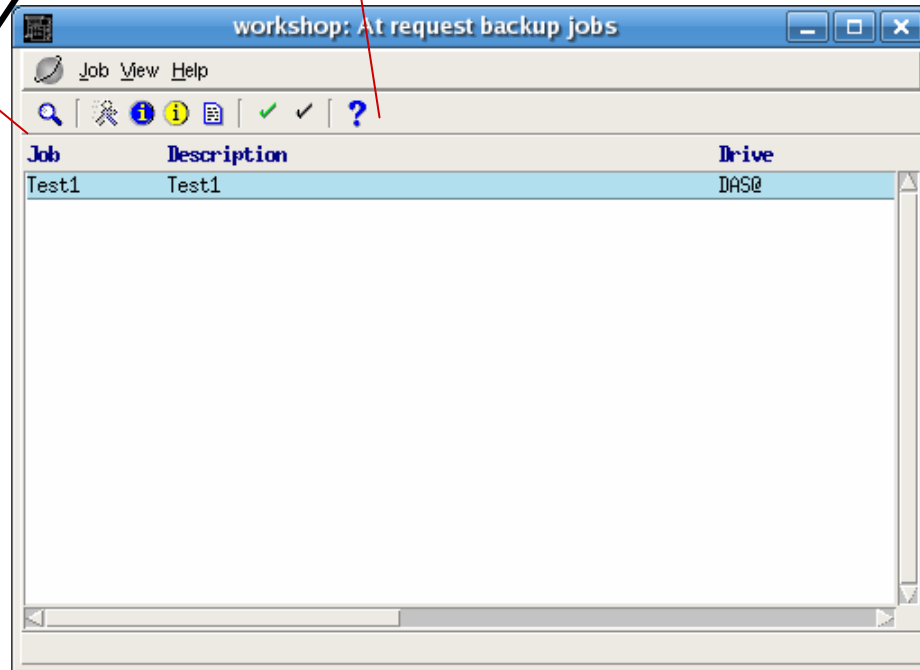Show all backup items associated with this job

Show Last Run

Show details of last job: status, time it was run, links to backup logs
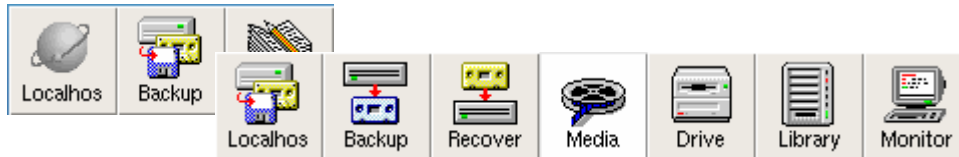
Notes

Notes can be text or html files.

These are specified in the **Job-configuration**, and are located in `/usr/cosmos/backup_5.1/local/notes`
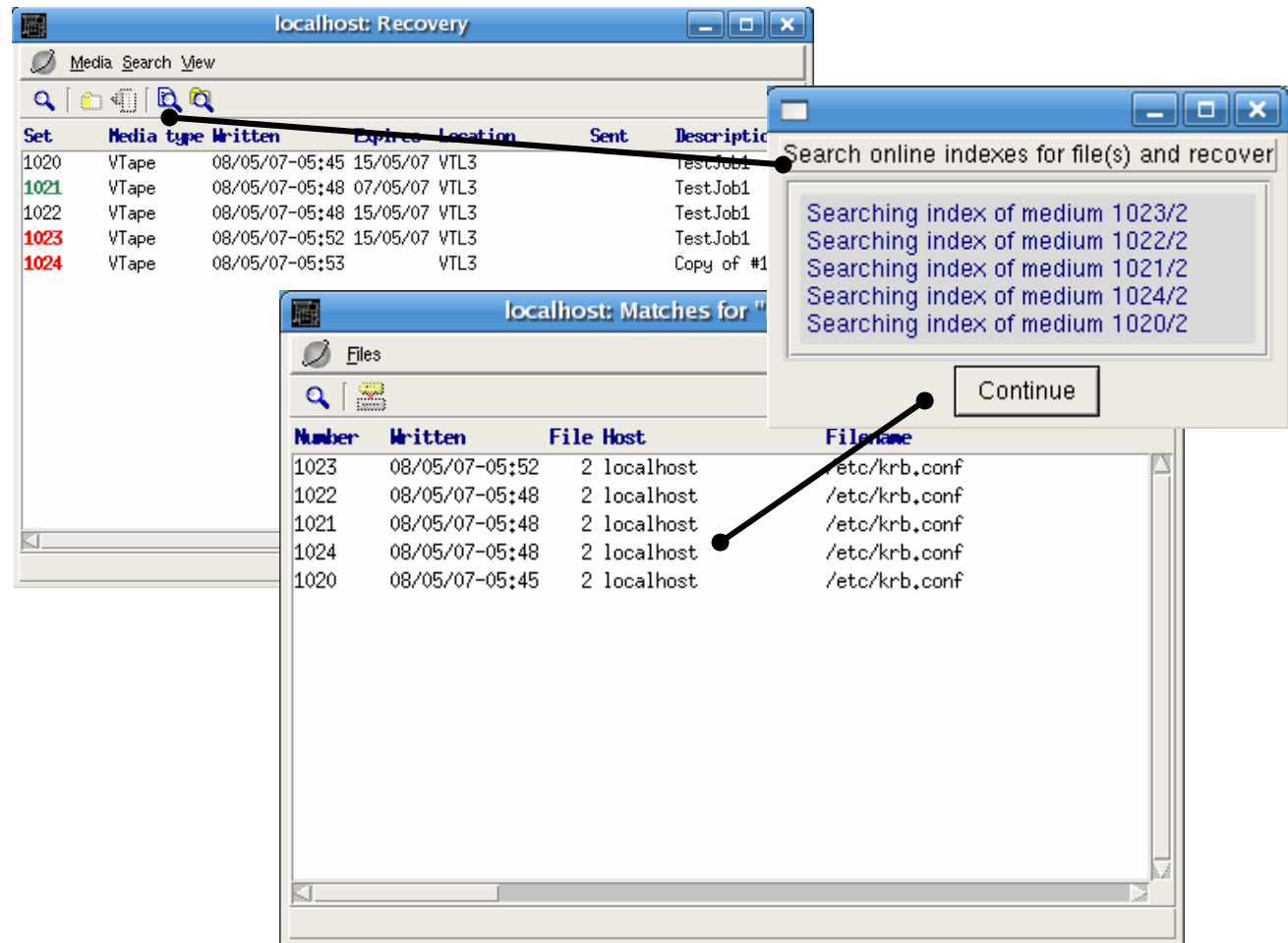
Recovery

Recovery

Retain Index when backup step fails
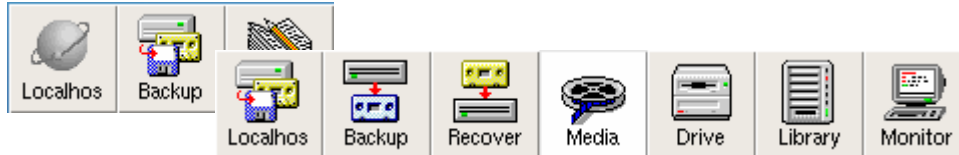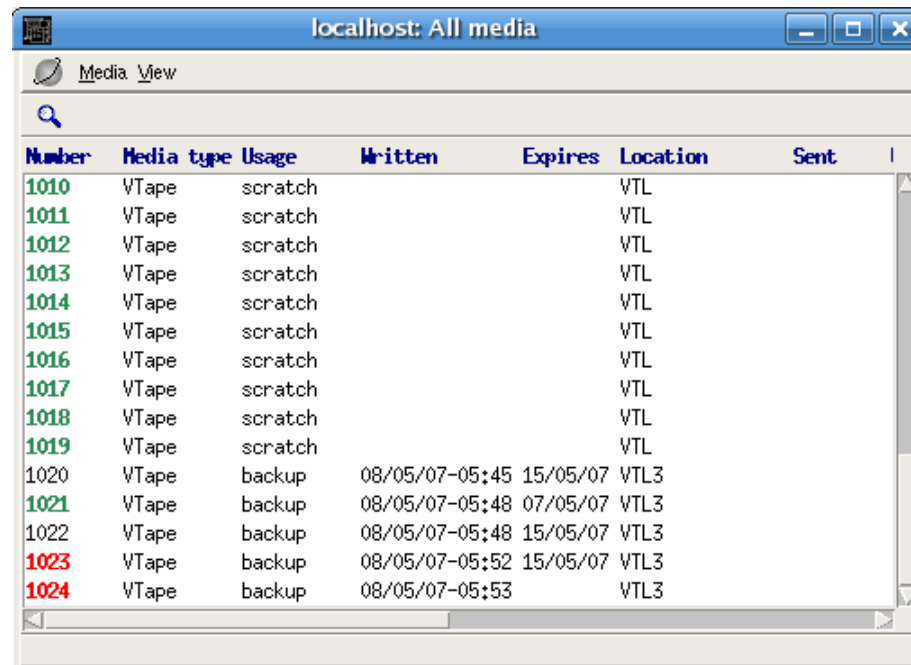
Restore Files from search list

Media

Status of Tape media by colour

Green : Available Tape Media

Black : Used Tapes that are within the retention period.

Red : Mark as bad.

localhost: All media

Media View

| Number	Media type	Usage	Written	Expires	Location	Sent	
1010	VTape	scratch			VTL		
1011	VTape	scratch			VTL		
1012	VTape	scratch			VTL		
1013	VTape	scratch			VTL		
1014	VTape	scratch			VTL		
1015	VTape	scratch			VTL		
1016	VTape	scratch			VTL		
1017	VTape	scratch			VTL		
1018	VTape	scratch			VTL		
1019	VTape	scratch			VTL		
1020	VTape	backup	08/05/07-05:45	15/05/07	VTL3		
1021	VTape	backup	08/05/07-05:48	07/05/07	VTL3		
1022	VTape	backup	08/05/07-05:48	15/05/07	VTL3		
1023	VTape	backup	08/05/07-05:52	15/05/07	VTL3		
1024	VTape	backup	08/05/07-05:53		VTL3		

New Librarian Controls

New Options for Librarian-role

Mark available : Set "Expires" day to "Yesterdays" date. This makes the media available for backup. However, the Media Index is still available for use in Recovery-process.

Change Retention : Change the date that the media will expire on.

Duplicate : Make a copy of the current media. Target media can be different type of media. i.e. You can copy from DLT4 tapes to an LTO3 tape.

You can also schedule the "COPY" to begin at a later time.

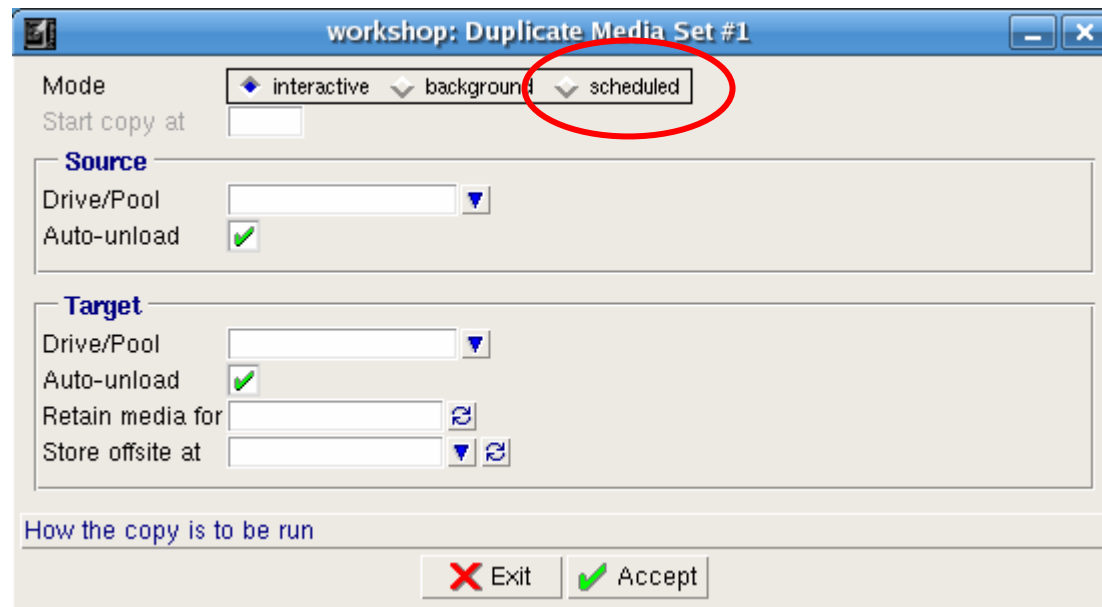Mark as bad : Mark the media as unusable. It will no longer be used for future backups.
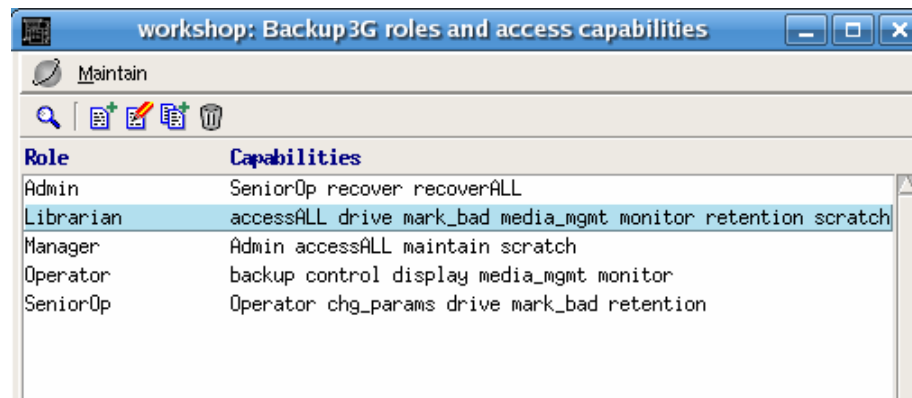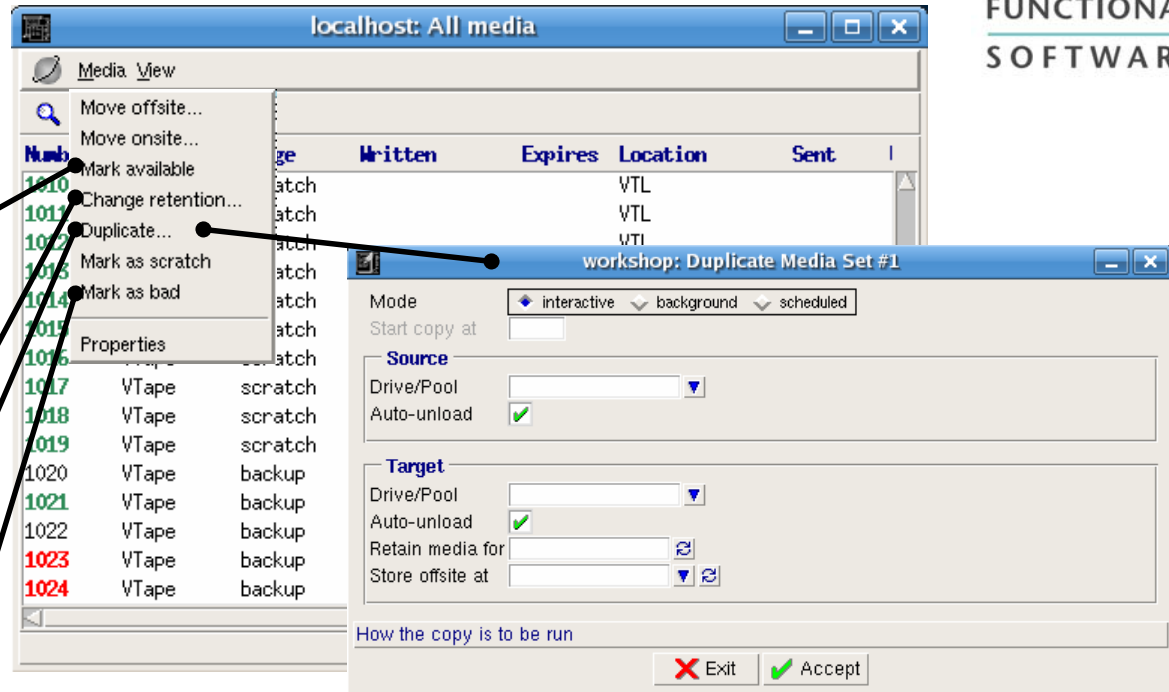
Duplicate

Mode

Interactive : Make a copy of the tape media, allow user to interact with prompts (i.e. insert new media… etc)

Background : Run copy-job in the background.

Scheduled : Schedule the copy-job to run at a later time.

Drive

Library

Manage Logs

Building Database

This will usually occur the first time that Backup3G is run.

Manage the output of backup jobs and file restores

Building logfile database. Please wait...

Continue

All logfiles for 01/08/07-17:00 to 02/08/07-17:00

Log View

	Today			Start time	Status
Descript	Yesterday			02/08/07-13:44	Running
Backup j	Week			02/08/07-13:42	End: Err 1
Backup j	Fortnight			02/08/07-12:36	End: OK
Backup j	Month			02/08/07-12:23	End: OK
Backup j	Quarter			02/08/07-11:57	End: Err 1
Backup j	Specify period...				

Today
Yesterday
Week
Fortnight
Month
Quarter
Specify period...

All logs
End error
Same job

Specify cutoff time...

Cutoff time

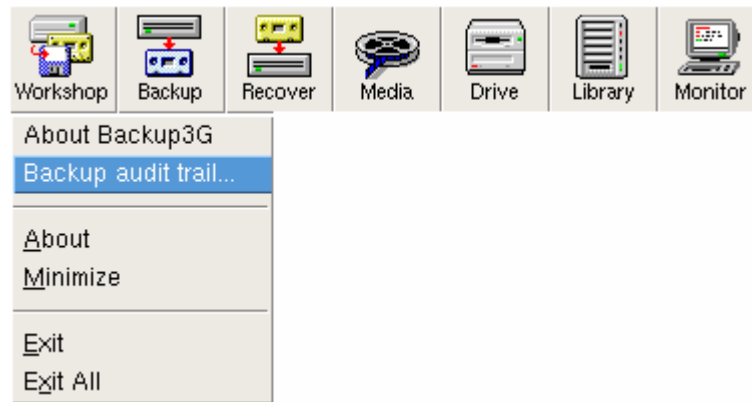This is the specified period that defines 1 day.

If the cut-off time is 17:00 (5:00pm), and you perform a search for all jobs run on August 01, 2007, it will display only those jobs that begin on **August 01, 2007 17:00 until August 02, 2007 17:00.**

FUNCTIONAL SOFTWARE
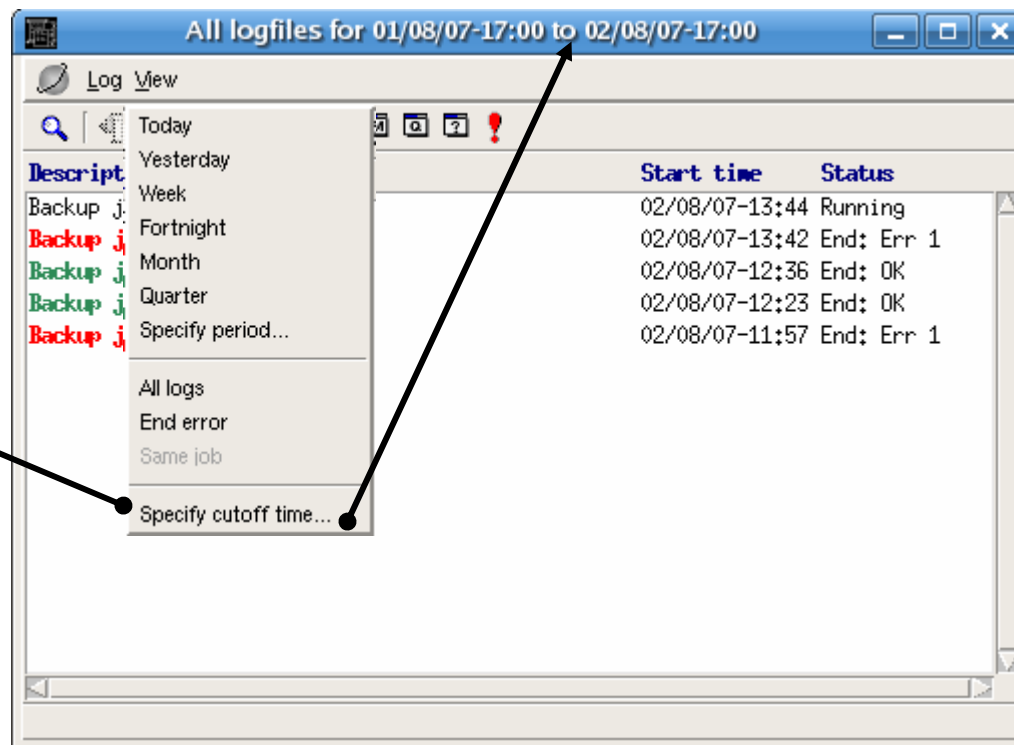
Audit Trail: Backup Jobs

Audit Trail

A record of the status of all backup jobs, and who performed the job at what time.

Backup3G

- Changes to setup and configuration
  - Notification
  - Secondary copy
  - Append
- Easier to manage, more user friendly interface
- Enhanced Media and Drive Management
- Extra Settings for better control of Backup3G environment
  - Meta-database replication
  - Notification
  - Access control
- Additional Audit Trails
  - Backup3G
  - Backup operations   - Media library inventory
  - Backup configuration   - Media library movements

Backup3G 5.1 New Features

Thank You