

# Discover

Most applications depend on the availability of sufficient disk space. If disk volumes become short of free space or if an individual disk file grows to its preconfigured size, then an application may not be able to allocate the disk space required to continue running. Manual methods that address this increase the risk of human error and require operations and support staff that could be better deployed for other tasks.

Organizations need a proactive solution that not only offers the ability to monitor, but also can predict, alert and remedy disk resource usage on HP NonStop™ servers safely and efficiently.



## The Discover Solution

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Discover is a powerful software solution that provides a safe and efficient mechanism for managing disks and files on hp NonStop servers. Discover continuously monitors disk and file usage and predicts potential disk full and file full conditions before they occur. It can be configured to automatically invoke corrective actions or to alert an operator that manual

intervention is required. In addition, discover is workflow-oriented, so it organizes “action items” that are required to ensure the availability of data.

## Employ Dynamic User Features

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Discover’s graphical user interface (GUI) provides wizards that guide users through the installation and configuration process.

Configuration wizards can be used to update the discover configuration at any time for space management, automatic file reload, automatic disk defragmentation, critical file monitoring and volume monitoring. The GUI has browsers that allow users to easily control discover operations, display and print charts and reports, and manage the to-do list and worksheets. This GUI allows users to immediately gain full benefit from discover’s inherent capabilities.

With Discover, users don’t over-consume valuable usage space. The discover monitor is a NonStop process pair that continually runs as a background task so it won’t impact CPU usage or interfere with online applications.

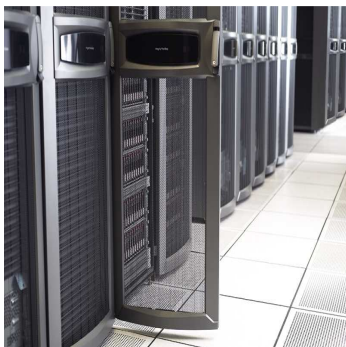
## Automate File and Disk Maintenance

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Discover can respond automatically to detected conditions, thus enabling the system administrator to associate automatic actions with any condition. these actions are placed on the to-do list, which provides automatic task scheduling, operator confirmation and override, and recording of the outcome of each action.

File maintenance tasks unsuited to a completely automated approach — archiving old files, disposing of a former user’s files, or processing broken files — can be performed using a worksheet. the worksheet automatically identifies candidate files and specifies a recommended action. the system administrator either confirms or overrides the action for each file. the files are then processed via the to-do list.

Discover monitors disk and file usage, and predicts potential disk full, file full and extent allocation failures before they occur. A



sophisticated prediction algorithm uses historical growth data to estimate when a disk or file will become full.

Discover includes SpaceMaker technology that can increase the amount of available free space on a disk volume by automatically freeing unused file extents. SpaceMaker also allows important files to have extents pre-allocated a specified number of days or weeks in advance — thereby ensuring that these extents are available when required.

## Streamline the Work Environment

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Discover audits all actions associated with a worksheet. An audit trail is provided and can identify which user was involved in each stage of a file maintenance task, including task identification, review, sign-off and execution.

Discover reduces the workload associated with disk and file management in a number of ways.

- routine maintenance tasks are performed automatically
- non-routine tasks are identified automatically, and performed on request
- Information on disk and file usage is gathered automatically and made readily available using a set of built-in reports

Maintenance tasks can be scheduled to be performed during off-peak times.

Discover can help reduce the occurrence of operational errors by providing the means to review and approve file maintenance tasks before they are performed.

Worksheets can be used to identify proposed maintenance tasks. For example, a task will only be performed once a properly authorized user has approved it.

## File and Data Protection

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The discover recycle bin stores files that have been deleted. Files can be recovered from the recycle bin using the undelete utility.

Discover tracks changes to key file attributes, such as the file owner, TMF Audit flag, Buffered flag, etc. files marked as broken or corrupted, or which require roll forward processing, are automatically detected.

## Automated Responses

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With Discover, corrective actions are automatically performed in response to an error condition, for example, running DCOM, pre-allocating space to a growing file, and increasing a file's MAXEXTENTS value or generating an EMS alert.

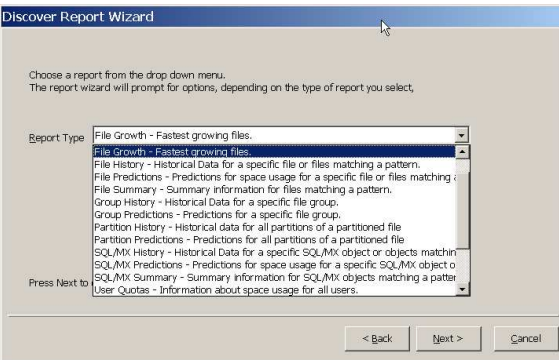
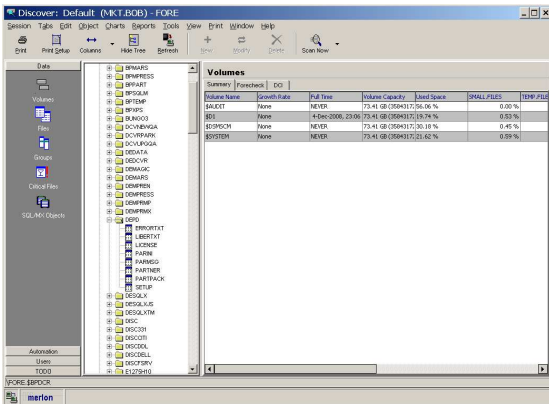
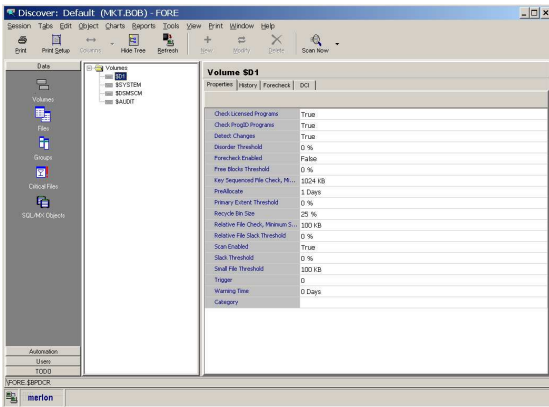
## Automated File Reloading

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Discover performs a health check on key sequenced files. It detects three conditions that may indicate that a key-sequenced file needs to be reorganized:

- The number of index levels is too high
- There is too much slack space in the file
- The data blocks in the file are disordered once detected, disorganized files are automatically reloaded

## Discover GUI



- Detects disk and file full conditions before they occur using an advanced prediction algorithm
- Prevents application outages
- Performs corrective actions automatically
- Uses SpaceMaker technology to optimize disk space allocation by reclaiming wasted space, and pre-allocating space to important files
- Reloads disorganized key sequenced files automatically to improve access times and space usage
- Automates regular and one-off file maintenance tasks
- Reduces operational errors by optionally requiring critical maintenance tasks to be signed off before they are performed
- Increases accountability by auditing file maintenance tasks
- Improves system and database administrator productivity
- Allows for quick recovery of files deleted in error
- Provides a safe and efficient mechanism for managing disks and files on HP NonStop™ servers
- Operates on any HP NonStop server running HP NonStop version D30 or later

features  
at a glance

**Merlon Software Corporation**  
258 Adelaide Street East  
Suite 404  
Toronto, Ontario  
M5A 1N1

416-504-8727  
1-888-4MERLON  
[sales@merlon.com](mailto:sales@merlon.com)  
[www.merlon.com](http://www.merlon.com)

