EMC® NetWorker®
Module for Documentum®

Release 1.2
Multiplatform Version

Command Reference Guide

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As part of an effort to improve and enhance the performance and capabilities of its product lines, EMC periodically releases revisions of its hardware and software. Therefore, some functions described in this document may not be supported by all versions of the software or hardware currently in use. For the most up-to-date information on product features, refer to your product release notes.

If a product does not function properly or does not function as described in this document, please contact your EMC representative.

Audience
This document is part of the EMC NetWorker Module for Documentum (NMD) documentation set. The guide is intended for use by professional services consultants and the Documentum administrators who are responsible for maintaining the Documentum Content Server and database server backup and restore system. Operators who monitor the Documentum data backups may also find this administration guide useful.

Readers of this document are expected to be familiar with the following topics:

◆ Documentum and relevant database terminology and concepts, especially those related to backups and restores
◆ Backup and restore procedures on a Documentum Server
◆ Disaster recovery procedures on a Documentum Server

Related documentation
Documentation related to the use of this product can be found on the EMC Powerlink website, http://Powerlink.EMC.com, including:

◆ The NetWorker Module for Documentum release 1.2 documentation set:
  • Administration guide
  • Installation guide
  • Release notes
  • Best practices guide
  • Command reference guide

◆ The NetWorker documentation set:
  • Administration guide
  • Installation guide
  • Release notes
  • Command reference guide
  • Disaster recovery guide

◆ Appropriate versions of the following documentation sets:
  • NetWorker Module for DB2
  • NetWorker Module for Microsoft SQL Server
  • NetWorker Module for Oracle

- NetWorker Module for Sybase
- NetWorker SnapImage Module

◆ Other EMC documentation:
- *Software Compatibility Guide*
- UNIX man pages

The following additional documentation may be useful:

◆ Documentum Content Server documentation

◆ Appropriate database (IBM DB2, Microsoft SQL Server, Oracle, or Sybase) backup and recovery documentation

Where to get help   EMC support, product, and licensing information can be obtained as follows.

Product information — For documentation, release notes, software updates, or for information about EMC products, licensing, and service, go to the EMC Powerlink website (registration required) at:

http://Powerlink.EMC.com

Technical support — For technical support, go to EMC Customer Service on Powerlink. To open a service request through Powerlink, you must have a valid support agreement. Please contact your EMC sales representative for details about obtaining a valid support agreement or to answer any questions about your account.

Your comments   Comments and suggestions about our product documentation are always welcome.

To provide feedback:

1. Go to:

   http://Powerlink.EMC.com

2. Click the **Feedback** link.

Maintenance Procedures

NAME

nsrnmdcr - NetWorker Module for Documentum query command, for querying customized Documentum Server file reports. The results of the query can be used to recover the files using **recover -t**.

SYNOPSIS

nsrnmdcr -B *repository_name* **-A** *sa_name* [**-E** *report_name*] | [[**-P** *report_dir*]
[**-T** *report_time*]] [**-N** *max_entries_returned*] [**-F** *output_path*] [**-V**] [**-O**]
[**-R** [**-C** *nsr_client*] [**-S** *nsr_server*] [**-D** *reloc_dir*] [**-I** {**nNyYrR**}]] [**-f** *folder_name*]
[**-d** *document_name*] [**-u** *user_name*] [**-c** *client_name*] [**-v** *document_version*]
[**-r org** | **mod**] [**-o** *orig_docname*] [**-m** *doc_format*] [**-t** *doc_save_date*]

DESCRIPTION

The **nsrnmdcr** command options in brackets ([ ]) are optional. Do not include the brackets when entering the command.

Note: The repository name must be specified through the **-B** option. If the repository name is not specified, the file report browsing fails.

The **-A** option specifies the search of file reports for a particular storage area. This option is recommended for narrowing the search. Either **-E** or **-P** can be used to specify the file report location. The **-E** option specifies the pathname of a single file report. The **-P** option specifies a directory pathname, for searching all the file reports in the directory. If **-P** is used with **-A** or **-T**, the file reports searched are those for a particular storage area or those created at a specified time. For example, with the options **-A filestore_01** and **-T "20041122"**, the file reports searched are the those for the filestore_01 storage area that were created on November 11, 2004.

The options **-F** and **-V** are recommended. The **-F** option specifies the pathname of the file to contain the command results. The **-V** option produces the most detailed results, which enables the user to verify that the expected documents were reported. It is the user's responsibility to verify the results of the **nsrnmdcr** command.

The options **-c**, **-d**, **-f**, **-m**, **-o**, **-r**, **-t**, **-u**, and **-v** are all optional search criteria, used to search for specific documents that are listed in the file reports. The option values can include regular expression in quotes. However, the search performance improves when regular expressions contain fewer expansion symbols such as *. For more information on regular expressions, refer to the **regexp** man page.

Note: All option values are case-insensitive.

OPTIONS

-A *storage_area_name*

Specifies the name of the storage area searched for in the file reports. A separate file report is generated for each storage area in a backup. This option is recommended, to narrow the search of the file reports.

-B *repository_name*

Specifies the name of the repository searched for in the file reports. This option is mandatory.

-C *nsr_client*

Specifies the name of the NetWorker client to use for restore. Within a distributed storage area configuration, *nsr_client* must be the primary host or the remote storage area host, and the restore is performed to that host. If no name is provided, within a distributed storage area configuration, the host of the storage area will be used; otherwise, the local host will be used. This

option is valid only with the **-R** option.

-c *client_name*

Specifies the client name to search for. This represents the client name that the documents were committed under.

-d *document_name*

Specifies the document name to search for in the file reports.

-D *reloc_dir*

Specifies the directory to restore the file to. This directory must exist and have write permissions. If this option is not specified the file(s) will be restored to the original location. This option is valid only with the **-R** option.

-E *file_report_path*

Specifies the full pathname of a specific file report file to search. Do not specify this option with the **-P** option for the same **nsrnmdcr** command.

-F *output_path*

Specifies the path and filename of where the results of the query should go.

-f *folder_name*

Specifies the folder name to search for in the file reports.

-I {**nNyYrR**}

Specifies the initial default overwrite response to use when recovering existing files. Only one letter may be specified. This option is the same as the **uasm -i** option when running in recover mode. See the **uasm**(1m) man page for a detailed explanation of this option.

-m *document_format*

Specifies the document formats to search for in the file reports. Standard document formats as represented in the Documentum Server Admin Guide are accepted.

-N *max_entries*

Specifies the maximum number of entries from the file reports that are displayed. For example, with **N**=10, the **nsrnmdcr** command will display a list of the 10 documents found first that match the search criteria.

-O

Specifies that user prompting is turned off, which causes all the files that match the search criteria to be searched automatically. By default, user prompting is turned on and the search process prompts the user before each file is searched.

-o *original_document_name*

Specifies the original name (<*set_client*>) of the document to search for in the file reports. The original name is the filename of the physical file on the host, which was used in the check-in.

-P *file_report_directory*

Specifies the directory containing all the file reports to search. Do not specify this option with the **-E** option for the same **nsrnmdcr** command.

-R

Specifies that the files found during the query should be recovered. This option can be used together with **-S**, **-C**, **-D** and **-I** options. After a matched file is found, the recovery process will restore each file one by one. If the recover list is too great (ex. More than 500 files), it is recommended to use **nsrnmdcr -F** <*output_result*> and **recover -I** <*input_file*> instead (where <*output_result*> = <*input_file*>).

-S *nsr_server*

>   Specifies the name of the NetWorker server to use for restore. If no name is
>   provided the local host will be used. This option is valid only with the **-R**
>   option.

-r org | mod

>   Specifies the type of renditions to display, according to the option value. The
>   value **org** displays only the original rendition of each content file. The value
>   **mod** displays all the renditions of each content file.

-T *file_report_time*

>   Specifies the time when a file report was created in the form *YYYYMMDDHHMMSS*
>   where: *YYYY* is the year as a four-digit number, *MM* is the month as a one or
>   two-digit number and *DD* is the day of the month as a one or two-digit. *HH* is the
>   hour as a one- or two-digit number. *MM* is the minute as a one- or two-digit
>   number. *SS* is the second as a one- or two-digit number. Partial times are
>   supported. For example, **"2007112211"** represents any time between 11 a.m. and
>   noon on November 22, 2007. If **-T** is not specified, the latest file report in the
>   directory specified by **-P** is used.

-t *document_save_time*

>   Specifies the time of the document creation to search for in the file reports.
>   The time must be in the form *MM*/*DD*/YY [*HH*:*MM*] where: *MM* is the month as a number
>   from 1 to 12, *DD* is the day as a number from 1 to 31, *YY* is the year as a number
>   from 00 to 99 (from 2000 to 2099). *HH* is the (optional) hour from 00 to 12. *MM* is
>   the (optional) minute from 00 to 59.

-u *user_name*

>   Specifies the document user name to search for in the file reports.

-V

>   Specifies verbose mode, which causes the detailed form of the file report
>   information to be displayed. This option is recommended, to provide the most
>   detailed information about the content files.

-v *document_version*

>   Specifies the document version to search for in the file reports.

EXAMPLES

The following **nsrnmdcr** command searches file reports for the storage area filestore_01
of the repository babilon. The file reports searched are those created on December 22,
2007. The search looks for document names containing the (case-insensitive) string
"mobile", with the folder name mobilitydocs and version number 1.0. The documents were
checked in from the client waterloo. Execute from the command line:

nsrnmdcr -B babilon -A filestore_01 -P "F:\Documentum\stores\FileReports" -T "20071222"
-V -c "waterloo" -d "mobile" -f "mobilitydocs -v "1\.0"

Note: In the regular expression **-v "1\.0"** , the escape character is included before the
dot.

SEE ALSO

nsrnmdsv(1m), **nsrnmdnx**(1m), **nsrnmdcr**(1m), **nsr_getdate**(3), **nsr_service**(5), **nsr**(1m),
nwrecover(1m)

NAME

nsrnmdde - NetWorker Module for Documentum Content Server operations command

SYNOPSIS

nsrnmdde -o query [*SA_FULL_LIST* | *SA_INCR_LIST*] [**-n** *number_of_subdirectories*]
[**-F** *number_of_listing_files* **-P** *location*] [**-M MD**] [*FTI_LIST*] [**-C**] [**-D**]

nsrnmdde -o quiesce_backup | **-o quiesce_recover** | **-o unquiesce_backup** |
-o unquiesce_recover [**-a suspend**] [**-a shutdown**] [**-a RO**] [**-f ALL**] [*SA_FULL_LIST*]
[**-T** *timeout*]

where:
SA_FULL_LIST is **-s** *name* | **-s ALL**
SA_INCR_LIST is **-t** *storage_area_name***:***start_ticket***:***end_ticket*
FTI_LIST is **-f** *name* | **-f ALL**

DESCRIPTION

The **nsrnmdde** command queries Documentum Content Server repository storage areas,
full-text indexes, and installation and configuration files information, as well as the
underlying database name and type. It also provides options to quiesce and unquiesce
storage areas and full-text indexes for both backup and recovery operations.

This command is used by the **nsrnmdsv** and **nsrnmdrs** commands.

DM_HOME, DOCUMENTUM, DOCUMENTUM_SHARED, CLASSPATH, PATH and NMDDE_DM_DOCBASE must be
set in the environment before this command can be invoked. NMDDE_DM_DOCBASE must point
to the name of the repository. The user name and password required to connect to the
repository can be set by using NMDDE_DM_USER and NMDDE_DM_PASSWD environment variables.

OPTIONS

-o query

Queries the corresponding Documentum Content Server components, and their
subdirectories and files.

-o quiesce_backup

Quiesces the storage area or full-text indexes for the backup.

-o unquiesce_backup

Unquiesces the storage area or full-text indexes in quiesce state for the
backup.

-o quiesce_recover

Quiesces the storage area or full-text indexes for the recovery.

-o unquiesce_recover

Unquiesces the storage area or full-text indexes in quiesce state for the
recovery.

-s *name*

Specifies the name of a storage area.

-s ALL

Specifies all the storage areas in the given repository.

-t *storage_area_name***:***start_ticket***:***end_ticket*

Specifies all the subdirectories and/or files of storage area changed within the
interval between *start_ticket* and *end_ticket*.

-f *name*

      Specifies the name of a full-text index.

-f ALL

      Specifies all the full-text indexes in the given repository.

-n *number_of_subdirectories*

      Specifies the approximate number of subdirectories of the storage area that should be returned when querying a storage area.

-F *number_of_listing_files*

      Specifies the maximum number of listing files for each storage area query.

-P *location*

      Specifies the directory path that the listing files will be stored.

-M MD

      Generates the file reports for the storage areas specified by **-s** or **-t** options.

-C

      Queries the installation and configuration file locations.

-D

      Queries the type and name of the database.

-a RO

      Puts the storage area in read-only mode for the quiesce. Use it with caution.

-a suspend

      Suspends the corresponding storage area or full-text index Documentum jobs for the quiesce.

-a shutdown

      Disable the full-text engine for the quiesce.

-T *timeout*

      Specifies the timeout value in seconds.

DIAGNOSTICS

Exit codes

0

      Normal exit.

<>0

      Abnormal exit. The **nsrnmdde** command failed.

SEE ALSO

nsrnmdsv(1m), **nsrnmdnx**(1m), **nsrnmdrs**(1m), **nsrnmdcr**(1m)

NAME

      nsrnmdnx - NetWorker Module for Documentum index reporting command

SYNOPSIS

      nsrnmdnx -B *repository_name* **-T** *backup_tag* [**-c** *client_name*] [**-D** *debug_level*]
      [**-s** *server_name*] [**-v**]

      nsrnmdnx -B *repository_name* [**-L** *lower_bound_time*] [**-l** *backup_level*] [**-M** *backup_scope*]
      [**-U** *upper_bound_time*] [**-c** *client_name*] [**-D** *debug_level*] [**-n** *count*] [**-s** *server_name*]
      [**-v**]

      where *backup_scope* is **ALL** | **DB** | **DB_LOG** | **FTI** [**-a** *object_name*] | **FTI_ALL** | **ICF** |
      SA [**-a** *object_name*] | **SA_ALL**

DESCRIPTION

      The **nsrnmdnx** command is used to search for and display information about NetWorker
      Module for Documentum backups. The command searches the NetWorker indexes for records
      of the backups. Searches can be performed based on the options **-B** (repository name), **-T**
      (backup tag), **-L** and **-U** (save times), **-M** (backup scope), and **-l** (backup level).
      Together these options are called the search criteria. The other options **-c**, **-D**, **-n**,
      -s, and **-v** affect the display of the backup information.

      The **-B** option specifies the repository name. It is a mandatory option. All the other
      search criteria are optional. If only the repository name is set, the **nsrnmdnx** command
      returns the records for every backup of the repository, starting with the most recent
      and ending with the oldest.

      The NetWorker Module assigns each backup a unique tag, which is an integer that
      identifies the specific backup. If the tag of a backup is known, the search can be
      performed by using the **-T** option. This is the most efficient type of search. When the
      -T option is used, do not specify other search criteria except for the **-B** option.

      The **-L** and **-U** options specify the save time criteria. If the **-L** option is set, the
      nsrnmdnx command reports only the backups that occurred after the **-L** time. The report
      starts with the oldest backup and ends with the most recent. If the **-U** option is set the
      nsrnmdnx command reports only the backups that occurred before the **-U** time. The report
      starts with the most recent backup and ends with the oldest. If both the **-L** and **-U**
      options are set the **nsrnmdnx** command searches for all the backups that occurred between
      the **-L** and **-U** times. This is called a range search. For a range search, the **nsrnmdnx**
      command reports the most recent backup first and the oldest backup last. The time
      values specified with the **-L** and **-U** options are in **nsr_getdate**(3) format.

      The **-M** option specifies the backup scope criteria. The option value can be **ALL**, **DB**,
      DB_LOG, **FTI**, **FTI_ALL**, **ICF**, **SA** or **SA_ALL**. The scope **ALL** is a system backup that backs up
      the database, (optionally) database logs, all the full-text indexes, (optionally)
      install and configuration files, and all the storage areas. The scope **DB** is a database
      backup, and **DB_LOG** is a backup of the database logs. The scope **FTI** is a backup of a
      specific full-text index. The scope **FTI_ALL** is a backup of all the full-text indexes.
      The scope **ICF** is a backup of the install and configuration files. The scope **SA** is a
      backup of a specific storage area. The scope **SA_ALL** is a backup of all the storage
      areas. If **SA** or **FTI** is specified, the additional option **-a** can also be set to specify
      the name of the object (storage area or full-text index) that was backed up.

      The **-l** option specifies the backup level criteria. The backup level can be **full** or **incr**
      (for incremental).

OPTIONS

    -a *object_name*

        Specifies the name of the backed-up object (storage area or full-text index) to search for. This option is only used when **-M** is set to **SA** or **FTI**.

    -B *repository_name*

        Specifies the name of the repository in the backup record.

    -c *client_name*

        Specifies the hostname of the NetWorker client whose index contains the backup information. If the **-c** option is not specified the local hostname is used.

    -D *debug_level*

        Specifies an integer value from 0 to 10 that determines the amount of debug information to print. A higher number produces more information. The default value is 0.

    -L *lower_bound_time*

        Specifies the time that is used as the lower boundary in a range search.

    -l *backup_level*

        Specifies the level of the backup to search for. The level can be **full** or **incr**.

    -M *backup_scope*

        Specifies the scope of the backup to search for. The scope can be **ALL**, **DB**, **DB_LOG**, **FTI**, **FTI_ALL**, **ICF**, **SA**, or **SA_ALL**.

    -n *count*

        Specifies the number of backup records to print.

    -s *server_name*

        Specifies the hostname of the NetWorker server to search for the backup records. If the **-s** option is not specified the local host is used as the server.

    -T *backup_tag*

        Specifies the unique tag that identifies a specific backup.

    -U *upper_bound_time*

        Specifies the time that is used as the upper boundary in a range search.

    -v

        Specifies that the long or verbose form of the backup records are to be printed.

EXAMPLES

    1. To search on the server jupiter for all the backup records for the repository foo that belong to the client mars, enter the following **nsrnmdnx** command:

    nsrnmdnx -B foo -c mars -s jupiter

    2. To search for all the backup records for the repository foo that have the scope SA_ALL and occurred before yesterday, enter the following **nsrnmdnx** command:

    nsrnmdnx -B foo -M SA_ALL -U yesterday

    3. To search for all the backup records for the repository foo that have scope ALL and occurred after the last week, enter the following **nsrnmdnx** command:

    nsrnmdnx -B foo -M ALL -L "last week"

    4. To search for all the backup records for the repository foo that have the scope FTI_ALL and occurred between last week and yesterday, enter the following **nsrnmdnx** command:

    nsrnmdnx -B foo -M FTI_ALL -L "last week" -U yesterday

5. To search for all the incremental backups of the storage area named bar in the repository foo, enter the following **nsrnmdnx** command:

nsrnmdnx -B foo -M SA -a bar -l incr

SEE ALSO

nsrnmdsv(1m), **nsrnmdcr**(1m), **nsrnmdrs**(1m), **nsrnmdde**(1m), **nsr_getdate**(3)

EMC NetWorker Module for Documentum Release 1.2 Multiplatform Version Command Reference Guide

Maintenance Procedures   **nsrnmdrs(1m)**

NAME

   nsrnmdrs - NetWorker Module for Documentum restore command, for restoring Documentum
   Server storage areas, full-text indexes, and installation files.

SYNOPSIS

   nsrnmdrs [**-B** *repository_name*] **-f** *config_file_path*
   [**-T** *backup_tag*] | [**-L** *lower_bound_time_stamp*] | [**-U** *upper_bound_time_stamp*]
   -M ALL | **-C SA** [**-a** *storage_area_name*] | **-C FTI** [**-a** *full_text_index_name*] | **-C ICF**
   [**-c** *client_name*] [**-D** *debug_level*] [**-d** *relocation_dir*] [**-i** {**nNyYrR**}] [**-p** *parallelism*]
   [**-P**] [**-s** *server_name*]

DESCRIPTION

   The **nsrnmdrs** command browses the NetWorker Module for Documentum (NMD) backup index and
   restores selected components from a specified backup. The NetWorker Module for
   Documentum assigns each backup a unique tag, which is an integer that identifies the
   specific backup. The **-T** option can be used to restore a specific backup by its tag. If
   the **-T** is not used, the **-L** or **-U** options can specify a time (in **nsr_getdate**(3) format)
   for narrowing the search of backup records. If **-T**, **-L** and **-U** are not used, the latest
   backup that matches the criteria specified (with the **-M** or **-C** options) is presented for
   restore. The NMD index is created in the repository index namespace when files are
   saved with **nsrnmdsv**(1m). By default the restore is done in interactive mode. The user
   is presented with a view of matched Documentum components, and is given the option to
   proceed with the restore. To restore components without prompting, the **-P** option should
   be used. Either the **-B** option or the configuration file parameter NMDDE_DM_DOCBASE must
   be used to specify the Documentum repository to restore. The mandatory **-f** option must
   be used to specify the configuration file, which must be the same configuration file
   used for the backup with the **nsrnmdsv** command. The **nsrnmdrs** variables that are not
   specified on the command line will be read from the configuration file.

OPTIONS

   -B *repository_name*

      This optional option specifies the name of the Documentum repository to restore.

   -f *config_file_path*

      Specifies the full path to the configuration file name. This file contains NMD
      parameters and is required. Please see the NMD Administrators guide for the list
      of parameters that must be set in the configuration file.

   -T *unique_tag*

      Specifies a unique backup tag that NetWorker Module for Documentum assigns to a
      backup. The **nsrnmdnx**(1m) command must be used to determine a backup tag value.

   -L *lower_bound_time_stamp*

      Specifies the time to use as the lower boundary time. The restore process
      searches for the latest backup (matching the search criteria) that occurred
      between this boundary time and one day after the time. The time value must be in
      nsr_getdate(3) format, which includes most human readable date formats. For
      example, if **-L "9/9/2007"** is specified, the restore searches for the latest
      matching backup that occurred between 9/9/2007 and 9/10/2007 (see **nsr_getdate**(3)
      format). For example, if an NMD backup was taken on 9/9/2007, the option **-L**
      "9/9/2007" will find the NMD backup matching the criteria, as a backup that
      occurred between 9/9/2007 and 9/10/2007.

   -U *upper_bound_time_stamp*

      Specifies the time to use as the upper boundary time. The restore process
      searches for the latest backup (matching the search criteria) that occurred
      before this boundary time. The time value must be in **nsr_getdate**(3) format,
      which includes most human readable date formats. For example, if **-U "9/10/2007"**

is specified, the restore searches for the latest matching backup that occurred before 9/10/2007.

-M ALL

Specifies that the restore process should seek an NMD backup of scope ALL (containing all storage areas and all full-text indexes). If such a repository record is found in the NetWorker indexes, all storage areas and all full-text indexes are restored to the default location or the location specified with the **-d** option.

-C SA [**-a** *storage_area_name*]

This option specifies that the restore process should seek an NMD backup for storage area(s). If the **-a** option is not specified (ie. **-C SA**), this will attempt to locate a repository backup record that contains all storage areas (Scope: **ALL** and **SA_ALL**). If however the **-T** *unique_time_stamp* option is used together with **-C SA**, the restore process will seek and restore all storage area(s) contained in the record. If the **-a** option is specified, this will attempt to locate a repository backup record that contains the particular storage area uniquely identified by the name.

-C FTI [**-a** *full_text_index_name*]

This option specifies that the restore process should seek an NMD backup for full-text index(es). If the **-a** option is not specified (ie. **-C FTI**), this will attempt to locate a repository backup record that contains all full-text indexes (Scope: **ALL** and **FTI_ALL**). If however the **-T** *unique_time_stamp* option is used together with **-C FTI**, the restore process will seek and restore all full-text indexes contained in the record. If the **-a** option is specified, this will attempt to locate a repository backup record that contains the particular full-text index uniquely identified by the name.

-C ICF

This option specifies that the restore process should proceed to seek and restore an NMD backup that contains installation and configuration Files.

-s *server_name*

Selects which NetWorker server to use. The server name may also be specified by the configuration file parameter NSR_SERVER.

-c *client_name*

client_name is the name of the machine that was originally specified for the backup, either through the **-c** option of the **nsrnmdsv** command or through the NSR_CLIENT parameter setting in the configuration file of the Content Server host -- for a distributed storage area configuration, the host is the primary host. The *client_name* may also be specified by the configuration file parameter NSR_CLIENT.

-D *debug_level*

Sets the debug level. The debug level may also be specified by the configuration file parameter NSR_DEBUG_LEVEL.

-d *relocation_dir*

Specifies the destination directory to relocate recovered files. Relative paths are interpreted relative to the current working directory. The relocation directory may also be specified by the configuration file parameter NSR_RELOCATION. For a full-text index restore, should include both the directory path and the full-text index name as the subdirectory.

-i {**nNyYrR**}

Specifies the initial default overwrite response when restoring an existing file. Only one of the letters **n**, **N**, **y**, **Y**, **r**, and **R** must be specified; if not specified the option defaults to **N**. This option is the same as the **-i** option of **uasm** in recover mode, where a lowercase letter value is mapped to uppercase. For more information, see **uasm**(1m). The initial default overwrite response may also be specified by the configuration file parameter NSR_CONFLICT_PROMPT.

-p *parallelism*

      Number of parallel sessions that will be used to perform the restore. The parallelism may also be specified by the configuration file parameter NSR_PARALLELISM.

-P

      Turns propmting off. By default, user prompting is turned on.

EXAMPLES

1. To restore the latest backup that contains all the storage areas for the repository docora10, enter the following command:

nsrnmdrs -B docora10 -f /space10/home/dmuser/nmd.cfg -C SA

2. To restore a specific storage area from the latest backup that occurred between 12/12/07 and 12/13/07 and relocate the storage area to the directory /space2/sa_dec12, enter the following **nsrnmdrs** command:

nsrnmdrs -B docora10 -f /space10/home/dmuser/nmd.cfg -L "12/12/07" -C SA
-a filestore_01 -d /space2/sa_dec12

3. To restore all full-text indexes from the latest backup that occurred before today, enter the following **nsrnmdrs** command:

nsrnmdrs -B docora10 -f /space10/home/dmuser/nmd.cfg -U "today" -C FTI
-d /space2/docora10_ftindex

4. To restore a specific full-text index from the latest backup, enter the following **nsrnmdrs** command:

nsrnmdrs -B docora10 -f /space10/home/dmuser/nmd.cfg -C FTI -a docora10_ftindex_01
-d /space2/docora10_ftindex_01

5. To restore the installation and configuration files from the latest backup that occurred between 9/9/07 and 9/10/07, enter the following **nsrnmdrs** command:

nsrnmdrs -B docora10 -f /space10/home/dmuser/nmd.cfg -L "9/9/2007" -C ICF

SEE ALSO

      nsrnmdsv(1m), **nsrnmdnx**(1m), **nsrnmdcr**(1m), **nsr_getdate**(3), **nsr_service**(5), **nsr**(1m), **nwrecover**(1m)

NAME

      nsrnmdsv - NetWorker Module for Documentum backup command

SYNOPSIS

      nsrnmdsv -f *config_file* [**-B** *repository*] [**-I** *client_name*]
      [**-M ALL** | **SA_ALL** | **FTI_ALL** | **ICF** | **DB** | **DB_LOG**] [**-D** *debug_level*] [*save_options*]

      nsrnmdsv -f *config_file* [**-B** *repository*] [**-M SA** | **FTI -a** *name*] [**-D** *debug_level*]
      [*save_options*]

      nsrnmdsv -P *PASSWD_text* [**-M FTI**] **-f** *config_file*

      where *save_options* is [**-c** *client*] [**-s** *server*] [**-l** *level*] [**-m** *tag_name*] [**-b** *pool*]
      [**-g** *group*] [**-p** *parallelism*] [**-N** *saveset_name*] [**-q**] [**-v**] [**-w** *browse_time*]
      [**-y** *retention_time*] [*savegrp_internal_options*]

DESCRIPTION

      The **nsrnmdsv** command backs up the Documentum Content Server repository storage areas,
      full-text indexes, and installation and configuration files. It also provides options
      to back up the underlying database systems (e.g. Oracle, Sybase, and Microsoft SQL
      Server).

      The **nsrnmdsv** command uses both the command line options and the parameters set in the
      configuration file, which is specified by the **-f** option. The same backup option can be
      specified either in the command line or in the configuration file. For example, either
      the **-M** command line option or the NMD_SCOPE parameter in the configuration file
      determines which repository components to be backed up in the given backup session.

      Once the backup options are set, **nsrnmdsv** starts the backup workflow. If the storage
      areas and full-text indexes are included in the backup, the **nsrnmdsv** command first
      quiesces them by using **nsrnmdde**(1m) if they are included in the backup. The quiesce
      operation inactivates certain repository jobs and suspends the full-text index engine
      accordingly. After the quiesce is done, **nsrnmdsv** performs the backups of the repository
      components to NetWorker volumes by using the NetWorker **save**(1m) or **nsrndmp_save**(1m)
      command. If snapshot backups are enabled with the configuration file parameter
      NMD_USE_SNAPIMAGE, the **nsrndmp_save**(1m) command is used to perform snapshot-based
      backups of the repository storage areas through the NetWorker SnapImage Module. Once
      the backup of storage areas, database, and full-text indexes is completed, the **nsrnmdsv**
      command unquiesces the corresponding components by using **nsrnmdde**(1m). Documentum
      Content Server installation and configuration files can be backed up separately, or as
      a part of whole system backup.

OPTIONS

      -f *config_file*

            Specifies the configuration file pathname. The file must be created before the
            nsrnmdsv command is used. The configuration file contains the configuration
            parameters of NetWorker Module for Documentum. Refer to the NetWorker Module for
            Documentum Administrator's Guide for the full list of mandatory and optional
            configuration parameters.

            Each line in the configuration file must have the following format:
            <parameter_name>=<parameter_value>

            For example:
            #Configuration file parameters
            DM_HOME=/space12/documentum/product/5.3SP3

```
DOCUMENTUM=/space12/documentum
DB_FULL_BACKUP_CMD=/space10/home/dmuser/dbfullcmd
DB_INCR_BACKUP_CMD=/space10/home/dmuser/dbincrcmd
```

The command line options take precedence over the configuration file parameters.

-B *repository*

Specifies the repository name. If this option is not specified on the command line, it must be specified in the configuration file by the NMDDE_DM_DOCBASE parameter setting. The backup fails if this option is not set in either location.

-I *client_name*

Used only for a SnapImage mode scheduled backup of the storage area; it is ignored by the **nsrnmdsv** command.

-M ALL | SA_ALL | FTI_ALL | ICF | DB | DB_LOG | SA|FTI

Specifies the backup scope. If this option is not specified on the command line, it must be be specified in the configuration file by the NMD_SCOPE parameter setting. The backup fails if this option is not set in either location.

The scope **ALL** is a system backup that backs up all the storage areas, full-text indexes, and database. In other words, the scope **ALL** includes the scopes **SA_ALL**, **FTI_ALL** and **DB**. A system backup may include installation and configuration files if the ICF_INCLUDED parameter is set in the configuration file.

The scope **SA_ALL** backs up all the storage areas in the given repository.

The scope **FTI_ALL** backs up all the full-text indexes in the given repository.

The scope **ICF** backs up all the installation and configuration files of the given repository.

The scope **DB** backs up the database through the command specified by the configuration file parameter NMD_DB_<*level*>_BACKUP_CMD. If the parameter NMD_DB_LOG_BACKUP_CMD is set, the scope **DB** also runs the NMD_DB_LOG_BACKUP_CMD command after the NMD_DB_<*level*>_BACKUP_CMD command. Depending on the type of underlying database system, the user must create the script or batch file that performs the backup of the corresponding database.

The scope **DB_LOG** backs up the database transaction logs through the command specified by the configuration file parameter NMD_DB_LOG_BACKUP_CMD.

The scope **SA** backs up a single storage area, whose name is provided by the **-a** option or the configuration file parameter NMD_OBJECT_NAME.

The scope **FTI** backs up a single full-text index, whose name is provided by the **-a** option or the configuration file parameter NMD_OBJECT_NAME.

-a *name*

Specifies the storage area or full-text index name depending on the backup scope. This option or the configuration file parameter NMD_OBJECT_NAME must be set if the backup scope is **SA** or **FTI**.

-D *debug_level*

Specifies the debug level. The default level (0) does not produce any debug messages. The debug level may also be specified using the configuration file parameter NSR_DEBUG_LEVEL.

-P *PASSWD_text* [**-M FTI**]

Without the **-M FTI** option, specifies the password of a repository user to connect to the Documentum Content Server. The password is encrypted by the **nsrnmdsv** command, and appended to the configuration file. The corresponding parameters NMDDE_DM_USER and NMDDE_DM_PASSWD are mandatory.

With the **-M FTI** option, specifies the password of the full-text index user for quiesce and unquiesce operation during a backup of a remote full-text index. The password is encrypted by the **nsrnmdsv** command, and appended to the configuration file as the value of parameter NMD_FTI_PASSWD. This option and **-M FTI** are mandatory for setting the parameter NMD_FTI_PASSWD.

The **nsrnmdsv** command does not support the setting of NMDDE_DM_PASSWD and NMD_FTI_PASSWD as clear text. Only the **-P** option may be used to set NMDDE_DM_PASSWD and NMD_FTI_PASSWD in the configuration file. Each parameter must not appear more than once in the configuration file.

-c *client*

Specifies the hostname of the NetWorker client for starting the save session. For more information, refer to **save**(1m) and **nsrndmp_save**(1m). The client name may also be specified by the configuration file parameter NSR_CLIENT.

-s *server*

Specifies the hostname to use as the NetWorker server. For more information, refer to **save**(1m) and **nsrndmp_save**(1m). The server name may also be specified by the configuration file parameter NSR_SERVER.

-l *level*

Specifies the backup level for the NetWorker Module for Documentum. The supported backup levels are **full**, **incr**, and **skip**. A NetWorker backup level may also be specified with this option, but it will be converted to the corresponding NetWorker Module for Documentum backup level. The backup level **incr** only applies to storage area backups. The backup level may also be specified by the configuration file parameter NSR_BACKUP_LEVEL.

-m *tag*

For a scheduled backup only, specifies the tag to precede the summary line in the summary information generated.

-b *pool*

Specifies a NetWorker pool. For more information, refer to **save**(1m) and **nsrndmp_save**(1m). The pool may also be specified by the configuration file parameter NSR_DATA_VOLUME_POOL. The manual backups fails if this option is not set in either location.

-g *group*

Specifies a NetWorker group. For more information, refer to **save**(1m) and **nsrndmp_save**. The group may also be specified by the configuration file parameter NSR_GROUP. The manual backups fail if this option is not set in either location.

-p *parallelism*

Specifies the maximum number of concurrent NetWorker save sessions. The parallelism may also be specified by the configuration file parameter NSR_PARALLELISM.

-N *saveset_name*

Specifies the symbolic name of the save set. The save set name may also be specified by the configuration file parameter NSR_SAVESET_NAME.

-q

Specifies quiet mode, which displays only summary information and error messages for **save**(1m) or **nsrndmp_save**(1m). For more information, refer to **save**(1m) and **nsrndmp_save**(1m). The quiet mode may also be specified by the configuration file parameter NSR_QUIET.

-v

Specifies verbose mode, which causes the save program to provide great detail about the save as it proceeds. For more information, refer to **save**(1m) and **nsrndmp_save**(1m). The verbose mode may also be specified by the configuration file parameter NSR_VERBOSE.

-w *browse_time*

> Specifies the date (in **nsr_getdate**(3) format) after which this save set will no longer be browsable. By default, the server determines the browse date for the save set based on the browse policies in effect. For more information, refer to **save**(1m) and **nsrndmp_save**(1m). The browse time may also be specified by the configuration file parameter NSR_SAVESET_BROWSE.

-y *retention_time*

> Specifies the date (in **nsr_getdate**(3) format) when the saved data will become recyclable. By default, the server determines this date for the save set based on the retention policies in effect. For more information, refer to **save**(1m) and **nsrndmp_save**(1m). The retention time may also be specified by the configuration file parameter NSR_SAVESET_RETENTION.

savegrp_internal_options

> These options are used internally by the **savegrp** command.

EXAMPLES

1. Create the configuration file with the following mandatory parameter settings:

cat /space10/home/dmuser/scripts/nmd.cfg

```
DOCUMENTUM=/space12/documentum
DOCUMENTUM_SHARED=/space12/documentum/shared/5.3SP3
DM_HOME=/space12/documentum/product/5.3SP3
NMDDE_DM_USER=dmuser
NSR_SERVER=birdman.legato.com
NSR_GROUP=NMD_group
NSR_DATA_VOLUME_POOL=NMD_pool
CLASSPATH=/usr/sbin/nsrnmdde.jar:/space12/documentum/shared/5.3SP3/dctm.jar:
/space12/documentum/product/5.3SP3/bin:/space12/documentum/shared/5.3SP3/dfc/dfc.jar
LD_LIBRARY_PATH=/space12/documentum/product/5.3SP3/bin
PATH=/space12/documentum/product/5.3SP3/bin:/space12/documentum/dba:/usr/local/bin:
/usr/sbin:/usr/ucb
JAVA_PATH=/space12/documentum/shared/5.3SP3/java/1.4.2_11/bin
NMD_DB_FULL_BACKUP_CMD=/space10/home/dmuser/scripts/dbfullcmd
NMD_DB_INCR_BACKUP_CMD=/space10/home/dmuser/scripts/dbincrcmd
```

Set the NMDDE_DM_PASSWD parameter in the configuration file by entering the following **nsrnmdsv** command:

nsrnmdsv -f /space10/home/dmuser/scripts/nmd.cfg -P *password_of_dmuser*

Set the NMD_FTI_PASSWD parameter in the configuration file by entering the following **nsrnmdsv** command:

nsrnmdsv -f /space10/home/dmuser/scripts/nmd.cfg -P *password_of_ftiuser* **-M FTI**

2. Perform a full system backup of the repository docora10 by entering the following **nsrnmdsv** command:

nsrnmdsv -f /space10/home/dmuser/nmd.cfg -B docora10 -M ALL -l full

3. Perform an incremental system backup of the repository docora10 by entering the following **nsrnmdsv** command:

nsrnmdsv -f /space10/home/dmuser/nmd.cfg -B docora10 -M ALL -l incr

4. Perform an incremental backup of the storage area filestore_01 of the repository docora10 by entering the following **nsrnmdsv** command:

nsrnmdsv -f /space10/home/dmuser/nmd.cfg -B docora10 -M SA -a filestore_01 -l incr

Note: The first time an incremental backup is performed for a given backup scope (for example, the backup scope **SA**), the backup is performed as a full backup by default.

DIAGNOSTICS

Exit codes

0

Normal exit. The NetWorker Module for Documentum successfully completed the backup to the NetWorker server. If file report generation is enabled but fails at the end of the backup, **nsrnmdsv** still returns the 0 exit code but generates warning messages accordingly.

<>0

Abnormal exit. The NetWorker Module for Documentum backup failed fully or partially.

SEE ALSO

nsrnmdde(1m), **nsrnmdnx**(1m), **nsrnmdrs**(1m), **save**(1m), **nsrndmp_save**(1m), **savegrp**(1m)

LOGS

The **nsrnmdsv** command generates a debug log file if the NSR_DEBUG_FILE parameter is set in the configuration file and the debug level is greater than 0.