

RoboCopy Syntax

RoboCopy uses the following general syntax:

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robocopy Source Destination [File [File..] [/S | /E] [/LEV:n] [/Z] [/B] [/ZB] [/COPY:Copy_Flags]
[/SEC] [/COPYALL] [/NOCOPY] [/PURGE] [/MIR] [/MOV] [/MOVE] [/CREATE] [/FAT] [/FFT] [/256]
[/MON:n] [/MOT:m] [/A+:{R | A | S | H | N}] [/A-:{R | A | S | H | N}] [/RH:hhmm-hhmm] [/PF]
[/IPG:ms] [/A] [/M] [/IA:{R | A | S | H | N | C | E}] [/XA:{R | A | S | H | N | C | E}] [/XF ExFile
[ExFile..] [/XD Directory [Directory..] [{/XC|/XN|/XO}] [{/XX|/XL}] [/IS] [/IT] [/MAX:bytes]
[/MIN:bytes] [/MAXAGE:{days | YYYYMMDD}] [/MINAGE:{days | YYYYMMDD}] [/MAXLAD:{days |
YYYYMMDD}] [/MINLAD:{days | YYYYMMDD}] [/ITEM] [/IOFF] [/XJ] [/R:RetryNumber] [/W:WaitTime]
[/REG] [/TBD] [/L] [/X] [/V] [/TS] [/FP] [/NS] [/NC] [/NFL] [/NDL] [/NP] [/ETA] [/LOG:file_name]
[/LOG+:file_name] [/TEE] [/JOB:job_name] [/SAVE:job_name] [/QUIT] [/NOSD] [/NODD] [/IF]
[/SD:path] [/SD:path] [/?]

```

Parameters

Source

Specifies the source directory. *Source* can use the Universal Naming Convention (UNC) format ("\\myserver") or reference a local drive.

Destination

Specifies the destination directory. *Destination* can use the Universal Naming Convention (UNC) format ("\\myserver") or reference a local drive.

File

Specifies the file or files to copy. Wildcard characters can also be used. *.* is the default value of *File*. It specifies all files in the directory specified by *Source*.

/S

Copies all subdirectories, excluding empty ones.

/E

Copies all subdirectories, including empty ones.

/LEV:*n*

Copies only the top *n* levels of the source directory tree. *n* indicates the number of levels.

/Z

Copies files in restartable mode.

/B

Copy files in Backup mode. Copying files in backup mode is not restartable. Backup mode may be able to copy files that restartable mode cannot.

/ZB

Use restartable mode; if access is denied, use backup mode.

/COPY:*Copy_Flag*

The **/COPY:** parameter copies specified file properties. The default is **/COPY:DAT**

Flag	Description
D	File data
A	File attributes
T	File time time stamps
S	File security. This attribute copies the NTFS Access Control Lists (ACL).
O	File ownership. This attribute copies the NTFS file ownership information.
U	File auditing. This attribute copies the NTFS file auditing information.

Note

- Source and destination volumes must both be NTFS to copy Security, Ownership or Auditing information.

/SEC

Copy files with security. Equivalent to **/COPY:DATS**.

/COPYALL

Copy all file attributes. Equivalent to **/COPY:DATSOU**.

/NOCOPY

Does not copy any file attributes.

/PURGE

Deletes destination files and directories that no longer exist in the source directory.

/MIR

Mirror a directory tree. The equivalent of **/E /PURGE**.

/MOV

Moves files, deleting the source after copying to the destination.

/MOVE

Moves files and directories, deleting the source after copying to the destination.

/A+:{R | A | S | H | N}

Adds the given attributes to copied files. The following table lists the valid attributes:

Attribute	Description
R	Read only
S	System
A	Archive
H	Hidden
N	Not content indexed

/A-:{R | A | S | H | N}

Removes the given Attributes from copied files. The following table lists the valid attributes:

Attribute	Description
R	Read only
S	System
A	Archive
H	Hidden
N	Not content indexed

/CREATE

Create directory tree and zero-length files only.

/FAT

Creates destination files using 8.3 FAT file names only.

/FFT

Assume FAT File Times (2-second interval). Useful for copying to third-party systems that declare a volume to be NTFS but only implement file times with a 2-second interval.

/256

Turn off very long path support. Very long path names are those longer than 256 characters

/MON:n

Monitors the source for change. The *n* parameter specifies the number of changes allowed in the source. If this number is exceeded, processing restarts.

/MOT:m

Monitors the source for change. The *m* parameter specifies the number of minutes to wait before checking for changes. If there are changes, processing restarts.

/RH:hhmm-hhmm

Defines the time slot during which starting new copies is allowed. Useful for restricting copies to certain times of the day. Both values must be 24-hour times in the range 0000 to 2359.

/PF

Makes more frequent checks to see if starting new copies is allowed (per file rather than per pass). Useful in stopping copy activity more promptly at the end of the run hours time slot.

/IPG:ms

Inter-Packet Gap in milliseconds. This parameter is used to free bandwidth on slow network links

/A

Copies only files with the archive attribute set.

/M

Copies only files with the archive attribute set, but removes the archive attribute from source files.

/IA:{R | A | S | H | N | C | E}

Includes only files with any of the given Attributes set. The following table lists the valid attributes:

Attribute	Description
R	Read only

A	Archive
S	System
H	Hidden
N	Not content indexed
C	Compressed
E	Encrypted

/XA:{R | A | S | H | N | C | E}

Excludes files with any of the given attributes. The following table lists the valid attributes:

Attribute	Description
R	Read only
A	Archive
S	System
H	Hidden
N	Not content indexed
C	Compressed
E	Encrypted

/XF *ExFile*

Excludes files matching given names, paths, or wildcard characters.

/XD *Directory*

Excludes directories matching given names/paths.

/XC

Excludes changed files.

/XN

Excludes newer files.

/XO

Excludes older files.

/XX

Excludes extra files and directories.

/XL

Excludes lonely files and directories.

/IS

Includes same files.

/IT

Include files tagged as tweaked.

/MAX:bytes

Excludes files larger than specified.

/MIN:bytes

Excludes files smaller than specified.

/MAXAGE:{days | YYYYMMDD}

Excludes files with a Last Modified Date older than *n* days or specified date. If *n* is less than 1900, then *n* is expressed in days. Otherwise, *n* is a date expressed as YYYYMMDD.

/MINAGE:{days | YYYYMMDD}

Excludes files with a Last Modified Date newer than *n* days or specified date. If *n* is less than 1900, then *n* is expressed in days. Otherwise, *n* is a date expressed as YYYYMMDD.

/MAXLAD:{days | YYYYMMDD}

Excludes files with a Last Access Date older than *n* days or specified date. If *n* is less than 1900, then *n* is expressed in days. Otherwise, *n* is a date expressed as YYYYMMDD.

/MINLAD:{days | YYYYMMDD}

Excludes files with a Last Access Date newer than *n* days or specified date. If *n* is less than 1900, then *n* is expressed in days. Otherwise, *n* is a date expressed as YYYYMMDD.

/IOFF

Includes Offline files. Excluded by default.

/ITEM

Includes Temporary files. Excluded by default.

/IOFF

Includes Offline files. Excluded by default.

/XJ

Excludes Junction points.

/R:RetryNumber

Specifies the number of retries on failed copies. The default value of *RetryNumber* is 1 million.

/W:WaitTime

Specifies the wait time between retries. The default value for *WaitTime* is 30 seconds.

/REG

Saves **/R:RetryNumber** and **/W:WaitTime** in the Registry as default settings.

/TBD

Waits for sharenames to be defined (retry error 67).

/L

Lists files without copying, time stamping, or deleting any files.

/X

Reports all extra files, not just those selected.

/V

Produces verbose output, showing skipped files.

/TS

Include source file time stamp in the output.

/FP

Include full path in the output.

/NS

Excludes the file size from the log file.

/NC

Excludes the file class from the log file.

/NFL

Excludes the file names from the log file.

/NDL

Excludes the directory names from the log file.

/NP

Suppresses progress display.

/ETA

Displays estimated time of arrival for copied files.

/LOG:file_name

Writes status to a log file. If the file exists, it is overwritten.

/LOG+:file_name

Writes status to a log file. If the file already exists, the status is appended to it.

/TEE

Displays output in the console window, in addition to directing it to the log file specified by **/LOG** or **/LOG+**.

/JOB:job_name

Gets parameters from the job file.

/SAVE:job_name

Saves parameters to the job file

/QUIT

Quits after processing the command line. No files will be copied. Use **/QUIT** with **/JOB** to view job file contents.

/NOSD

Declares that no source directory is specified. Useful in template Jobs for which the source is provided at run time.

/NODD

Declares that no destination directory is specified. Useful in template Jobs for which the destination is provided at run time.

/IF

Includes files with the specified names, paths, or wildcard characters. Intended for use in Job files only.

/SD:path

Explicitly specifies the source directory for the copy. Intended for use in Job files only.

/?

Displays command-line usage.