

TFileCopy Component

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The TFileCopy component copies one file to another. This component is very configurable. It has the ability to copy multiple files to a directory. It contains built in messages that are presented in message dialog boxes. These default messages can be turned off. This component also allows the Copy Type to be set to several different methods of copying a file, including an option to Move the file to another name and an option to copy and expand a compressed file that was compressed with the COMPRESS.EXE program. If copying and expanding compressed files, it can extract the original filenames if they were compressed with the /r option in the COMPRESS.EXE program. Once these properties are set, then you set the SourceFilename and TargetFilename properties and call the Execute method. This will copy or move the source file(s) to the target file or directory. If copying to a directory and the directory does not exist, you can set the CreateTgtDir property to True and it will create the target directory. This component includes a custom dialog box with a Windows 95 appearance.

Properties:

About Property

The About property displays an about box with a short description of the TFileCopy component, as well as some information about the system and the Copyright. This about box can also be displayed by double clicking the component or by right clicking the component with the mouse and choosing About from the popup menu.

CopyType Property

The CopyType property specifies the copy method to be used in the copy. The LZCopy type will copy and expand a file that is compressed. If the file is not compressed, it will just be copied. The primary difference between the different copy types is the way the file is copied. Each has a speed advantage under different circumstances. The Move type will move a file to another name. This basically renames the file. The default is ctBlock.

These are the possible values of CopyType:

Value	Meaning
ctBlock	Perform a Block Copy.
ctStream	Perform a Stream Copy.
ctLZCopy	Copy and expand a compressed file.
ctMove	Move the file to another file name.

CreateTgtDir Property

The CreateTgtDir property determines if the target directory is created if it does not exist. If CreateTgtDir is set to True, then the target directory will be created if it does not exist. If it is set to False, then an error will be generated. This property is primarily used when the ShowMessages property is set to False. This allows you to set a custom message when the target directory does not exist. You would do this by setting the CreateTgtDir property to False, then placing your code to handle the situation where the directory does not exist into the OnDirNotExist event. Then you would set the CreateTgtDir property to True and the target directory would be created.

SourceFilename Property

The SourceFilename property accepts the path and filename of the file that will be copied or moved. This property can hold multiple filenames so that groups of files can be copied all at once. If only filenames are given without paths, then it will attempt to copy the files from the current directory. The SourceFilename property is a TStringList and contains all the properties and methods of a TStringList. This property is required for the FileCopy to run.

TargetFilename Property

The TargetFilename property accepts the path and filename of the file that the source file will be copied or moved to. It can also accept a directory name to copy the file(s) to. If only a directory is given, then the files are copied with the same name into the new directory. This property is required for the FileCopy to run.

OverwriteIfExist Property

The OverwriteIfExist property determines the overwrite status if the target file already exists. If OverwriteIfExist is set to True, then the target file will be overwritten if it exists. If it is set to False, then an error will be generated. This property is primarily used when the ShowMessages property is set to False. This allows you to set a custom message when the target file exists. You would do this by setting the OverwriteIfExist property to False, then placing your custom code into the OnTgtFileExists event. If this error is received, then you can display a message stating that the target file exists and allow the user to enter a new filename. Then you would set the OverwriteIfExist property to True.

Progress Property

The Progress property provides the progress status of the copy. The progress is returned as a percentage. The progress is calculated as a total percentage of completion. This means that if copying multiple files, the progress will return the percent complete of the entire process (all files), not just for a single file. If you want to display the percentage of each file, you will need to set it up to copy one file at a time, instead of copying multiple files. This property is read only.

SizeFile Property

The SizeFile property contains the size of the file being copied. This property is read only.

ShowMessages Property

The ShowMessages property determines if the components' built in error messages are displayed or not. If the ShowMessages property is set to True, then the built in error messages are displayed. This is so that you do not need to handle them. If you want to handle the error messages yourself, then set this property to False. If the ShowMessages property is set to True, then the default events will be used for any events that do not have code in them. If an event has code in it, then the event will be fired and the code will be executed instead of the default event.

Types:

TCopyType Type

The TCopyType type contains the values the CopyType property can assume.

Methods:

Execute Method

The Execute method starts the FileCopy process.

Events:

OnCannotCreateTgtDir Event

The OnCannotCreateTgtDir event occurs when the FileCopy attempts to create the target directory and cannot. This event allows you to set up your own error checking and display routines to handle directory creation errors. This event only occurs if code is assigned to it.

OnCopyToSelfError Event

The OnCopyToSelfError event occurs when the FileCopy attempts to copy a file to itself. This event allows you to set up your own error checking and display routines when this error occurs. This event only occurs if code is assigned to it.

OnDirNotExist Event

The OnDirNotExist event occurs when the FileCopy attempts to copy a file to a directory that does not exist. This event allows you to set up your own error checking and display routines when this error occurs. Normally the CreateTgtDir property would be set to True in this event if the user wanted it to create the directory. This event only occurs if code is assigned to it.

OnFinished Event

The OnFinished event occurs when the FileCopy process is complete. This allows something to be done when the process is finished.

OnLZCopyError Event

The OnLZCopyError event occurs when if using the LZ CopyType and an error occurs. This event allows you to set up your own error checking and display routines when this error occurs. This event only occurs if code is assigned to it.

OnMoveFileError Event

The OnMoveFileError event occurs when if using the Move CopyType and an error occurs. This event allows you to set up your own error checking and display routines when this error occurs. This event only occurs if code is assigned to it.

OnMoveToSelfError Event

The OnMoveToSelfError event occurs when the FileCopy attempts to move a file to itself while using the Move CopyType. This event allows you to set up your own error checking and display routines when this error occurs. This event only occurs if code is assigned to it.

OnOpenSrcError Event

The OnOpenSrcError event occurs when the FileCopy receives an error while attempting to open the Source file. This event allows you to set up your own error checking and display routines

when this error occurs. This event only occurs if code is assigned to it.

OnOpenTgtError Event

The OnOpenTgtError event occurs when the FileCopy receives an error while attempting to open the Target file. This event allows you to set up your own error checking and display routines when this error occurs. This event only occurs if code is assigned to it.

OnOverwriteCancelled Event

The OnOverwriteCancelled event occurs when the OverwriteIfExist. property is set to False and the FileCopy attempts to copy a file to a file that already exists. This event allows you to set up your own error checking and display routines when this error occurs. This event only occurs if code is assigned to it.

OnProgressChange Event

The OnProgressChange event occurs when the progress of the Copy or Move changes. This event allows a progress meter to be displayed to keep the user informed of the progress of the Copy.

OnSrcFileError Event

The OnSrcFileError event occurs when there is an error with the Source file. This is usually caused by an error in the Source filename. This event allows you to set up your own error checking and display routines when this error occurs. This event only occurs if code is assigned to it.

OnSrcFileNotExist Event

The OnSrcFileNotExist event occurs when the Source file does not exist. This event allows you to set up your own error checking and display routines when this error occurs. This event only occurs if code is assigned to it.

OnStart Event

The OnStart event occurs when the FileCopy process begins. This allows something to be done when the process first starts.

OnTgtFileError Event

The OnTgtFileError event occurs when there is an error with the Target file. This is usually caused by an error in the Target filename. This event allows you to set up your own error checking and display routines when this error occurs. This event only occurs if code is assigned to it.

OnTgtFileExists Event

The OnTgtFileExists event occurs when the Target file already exists. This event allows you to set up your own error checking and display routines when this error occurs. Normally, the OverwriteIfExist property would be set to True in this event. This event only occurs if code is assigned to it.