



COSCOMPRESSDLL

Notes to version 1.0

As of version 8.0 of Cosmos, it will be possible to compress and decompress password-protected files.

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1. Introduction

This DLL allows you to generate compressed files and decompress them. The files must be in zip or 7z format.

2. Functions

These are the steps to follow to generate a compressed file:

1. Execute the `CosCompressNew` function to obtain a handler that allows us to execute the necessary functions to carry out the process.
2. Execute the function `CosCompressAddFolder` and / or `CosCompressAddFile`, to add the files to the compressed archive.
3. Execute the `CosCompressSave` function, to save the compressed file.
4. Run the `CosCompressFree` function to free up resources.

2.1 `CosCompressNew` function

This function returns the identifier of the compressed file to be created. This identifier will be used in the rest of the functions.

Declaration:

```
Public dll "coscompressdll.dll" CosCompressNew() return integer
```

Returns:

The identifier of the compressed file. Possible values are:

>0	Number greater than 0 if no error occurred. This will be the identifier used in the rest of the API functions.
-2	Cosmos license is not registered.

2.2 `CosCompressAddFile` function

This function adds a file to the compressed file in the path indicated in the *fileTo* parameter.

Declaration:

```
Public dll "coscompressdll.dll" CosCompressAddFile (zipId as integer, fileFrom as char, fileTo as char) return integer
```

Parameters:

zipId	Identifier of the compressed file created with the <code>CosCompressNew</code> function. Required.
fileFr	Source file path. Required.
fileT	Destination file path. Required.

The format of this parameter is: <path> / <file name>, where path is the absolute path of the file within the compressed file.

If no path is specified in this parameter, the file is copied to the root directory of the compressed file.

Returns:

0	The process has been executed successfully.
-3	Object identifier is wrong.

2.3 CosCompressAddFolder function

This function recursively appends the contents of the folder indicated in the *folderFrom* parameter to the compressed file.

Declaraton:

```
publicdll "coscompressdll.dll" CosCompressAddFolder (zipId as integer,
folderFrom as char, folderTo as char) return integer
```

Parameters:

zipId	Identifier of the compressed file created with the CosCompressNew function. Required.
folderFrom	Path of the source folder. Required.
folderTo	Path of the destination folder. This path is created in the compressed file. Required.

Returns:

0	The process has been executed successfully.
-3	Object identifier is wrong.
-19	Some of the parameters that the function receives has a null value.

2.4 CosCompressCreateFolder function

This function creates a folder in the compressed file.

Declaration:

```
Public dll "coscompressdll.dll" CosCompressCreateFolder (zipId as integer,
folderName as char) return integer
```

Parameters:

zipId	Identifier of the compressed file created with the CosCompressNew function. Required.
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folderName Folder name. If a subfolder is created, the full path must be indicated. Required.

Returns:

0	The process has been executed successfully.
-3	Object identifier is wrong.
-19	Some of the parameters that the function has received have a null value.

2.5 CosCompressExtract function

This function allows you to extract the files from a compressed archive (zip or 7z) in the indicated directory.

Declaration:

```
public dll "coscompressdll.dll" CosCompressExtract(compressedFile as char,  
outputFolder as char, format as char, showProgressWindow as boolean) return  
integer
```

Parameters:

compressedFile Full path of the compressed file. Required.

outputFolder Full path of the folder where the file will be extracted. Required.

formatString Compressed file format. Allowed values: zip and 7z. Required.

showProgressWindow TRUE if you want a progress window to be displayed.

Returns:

0	The process has been executed successfully.
-12	Unable to create output file. The file already exists or you don't have permission.
-16	Input file not found.
-18	The user has cancelled the process.
-19	Some required information is missing.
-20	The output folder does not exist.

2.6 CosCosmpressExtractEx function

This function allows extracting the contents of a password-protected compressed file.

Syntax:

```
[Access] dll "coscompressdll.dll" CosCompressExtractEx(compressedFile as char,  
outputFolder as char, format as char, showProgressWindow as boolean, password  
as char) return integer
```

Parameters:

compressedFile	Full path of the compressed file.
outputFolder	Full path of the folder where the file will be extracted. The folder must be created.
Format	Tipo de archivo. Valores posibles: ZIP y 7z.
showProgressWindow	Show progress window. Allowed values: TRUE, FALSE.
password	File password.

Returns:

0	The process has been executed successfully.
-12	Unable to create output file. The file already exists or there is no write permission in the indicated folder or the indicated password is incorrect.
-16	Input file not found.
-18	The user has canceled the process.
-19	Some required parameter is missing.
-20	The output folder does not exist.

2.7 CosCompressSave function

This function saves the compressed file in the specified format.

Declaration:

```
public dll "coscompressdll.dll" CosCompressSave (zipId as integer, outFile as  
char, format as char, showProgressWindow as boolean) return integer
```

Parameters:

zipId	Identifier of the compressed file created with the CosCompressNew function. Required.
-------	---

outFile	Absolute path of the destination file.
format	Compression format. Possible values: zip and 7z.
showProgressWindow	Displays a progress window.

Returns:

0	The process has been executed successfully.
-10	Unable to load DLL 7zra.dll
-11	Incorrect version of the DLL 7zra.dll
-12	Unable to create output file. The file already exists or does not have permissions.
-13	Error reading input file.
-14	No files have been added to compress.
-15	Unable to load the DLL 7zra.dll.
-16	Input file not found.
-17	Error saving output file.
-18	The user has cancelled the process.

2.8 CosCompressSetPasword function

This function allows you to protect a compressed file with a password.

Syntax:

```
[Access] dll "coscompressdll.dll" CosCompressSetPassword (zipId as integer,  
password as char) return integer
```

Parameters:

zipID	Compressed file identifier
password	Archive password.

Returns:

0	No error has occurred.
-3	The archive identifier is incorrect.

2.9 CosCompressSetZipLevel function

This function allows you to specify the compression level of the file. Only for files in zip format.

Declaration.


```
public dll "coscompressdll.dll" CosCompressSetZipLevel (zipId as integer,  
level as integer) return integer
```

Parameters:

zipId. Identifier of the compressed file created with the CosCompressNew function. Required.

level. Compression level. Supported values: 1 to 8. By default, 8.
The highest number indicates the highest level of compression.

Returns:

0	The process has been executed successfully.
-3	Object identifier is wrong.
-22	Wrong value in the "level" parameter. The value must be between 1 and 8.

2.10 CosCompressFree function

This function frees the compressed file object passed as a parameter.

Declaration:

```
Public dll "coscompressdll.dll" CosCompressFree (zipId as integer) return  
integer
```

Parameters:

zipId Identifier of the compressed file created with the CosCompressNew function. Required.

Returns:

0	The process has been executed successfully.
-3	Object identifier is wrong.