

The Library SysLibDir.lib

Please regard: It depends on the target system, which system libraries can be used in the application program. Please see the document SysLibs_Overview.pdf. Please regard, that SysLibDir.lib-functions are not thread-safe under Windows CE.

If supported by the runtime system, you can use the following functions to handle a file directory system on the target system. Entries of the directory can be read and modified. The execution is synchronous.

SysDirCreate

SysDirOpen

SysDirRead

SysDirRemove

SysDirRename

SysDirCreate

This function (system library SysLibDir.lib of type BOOL) can be used to create a new directory. The return value is TRUE, if the directory has been created, or FALSE in case of error.

| Input-Variable | Data type | Description |
|----------------|-----------|-----------------------|
| stName | STRING | Name of the directory |

SysDirOpen

This function (system library SysLibDir.lib of type DWORD) can be used, to open a directory in order to read the directory entries (files, subdirectories) via function SysDirRead. The return value is a handle, which is required by function SysDirRead as an input.

| Input-Variable | Data type | Description |
|----------------|-----------|----------------|
| stDirectory | STRING | Directory name |

SysDirRead

This function (system library SysLibDir.lib of type UDINT) can be used to read directory entries.

Each time the function is called, one entry of the directory will be read. As long as "1" is returned, a further entry is in the directory. Thus for reading all entries the function must be called repeatedly until "0" is returned.

The information on the particular entries will be written to structure DIRECTORY_INFO.

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| Input-Variable | Data type | Description |
|----------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| hDir | DWORD | Handle of the directory; Returned by function SysDirOpen, which was called before for opening the directory. |
| stDirEntry | STRING | Name of an entry in the directory. Can be a file or another directory. Max. 80 characters. |
| pDirInfo | POINTER TO DIRECTORY_INFO | Pointer on structure DIRECTORY_INFO, which will be filled with information on the read entry. You can enter "0" here if the information should not be read. |

SysDirRemove

This function (system library SysLibDir.lib of type BOOL can be used to delete a directory. TRUE will be returned if the directory could be removed, otherwise FALSE.

| Input-Variable | Data type | Description |
|----------------|-----------|-------------------------------------|
| stName | STRING | Name of the directory to be removed |

SysDirRename

This function (system library SysLibDir.lib of type BOOL can be used to rename a directory. TRUE will be returned if the directory could be renamed, otherwise FALSE.

| Input-Variable | Data type | Description |
|----------------|-----------|--------------------|
| stOldName | STRING | old directory name |
| stNewName | STRING | new directory name |

Structure DIRECTORY_INFO

This structure (system library SysLibDir.lib contains information on a directory, which is read via function SysDirRead.

The components:

| Variable | Data type | Description |
|------------|-------------|-----------------------------------------------------------------------|
| ftTime | DIRFILETIME | Structure with information on creation date, change date, access date |
| dwSize | DWORD | Size of the directory entry (file) |
| bDirectory | BOOL | TRUE, if entry is a directory; FALSE, if the entry is a file |

Structure DIRFILETIME

This structure (system library SysLibDir.lib contains data information for a directory entry. It is used by structure DIRECTORY_INFO.

The components:

| Variable | Data type | Description |
|--------------------|-----------|---------------------------|
| dtCreation | DT | Date of creation |
| dtLastAccess | DT | Date of last access |
| dtLastModification | DT | Date of last modification |