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.

To close the directory, SysDirRead must be called until it returns 0.

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. In this case, the directory is closed and the handle is not valid any more. In every case, the function has to be called until it returns 0 to close the directory.

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

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