



opsi-script reference card (4.12.4.37)

uib gmbh

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For Windows [W], Linux [L] and MacOS [M]

Chapter 1. Copyright

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Chapter 2. Global text constants

2.1. System directories

2.1.1. System directories [W]:

`%ProgramFilesDir%`: 'c:\program files'

`%ProgramFiles32Dir%`: 'c:\Program Files (x86)' //since 4.10.8

`%ProgramFiles64Dir%`: 'c:\program files' //since 4.10.8

`%ProgramFilesSysnativeDir%`: 'c:\program files' //since 4.10.8

`%Systemroot%`: 'c:\windows'

`%System%`: 'c:\windows\system32'

`%Systemdrive%`: 'c:'

`%ProfileDir%`:

NT5: 'c:\Documents and Settings'

NT6: 'C:\users\'

2.2. Common (AllUsers) directories [W]:

`%AllUsersProfileDir%` or `%CommonProfileDir%`:

NT5: 'c:\Documents and Settings\All Users'

NT6: 'C:\Users\Public'

`%CommonStartMenuPath%` or `%CommonStartmenuDir%`:

NT5: 'c:\Documents and Settings\All Users\Startmenu'

NT6: 'C:\ProgramData\Microsoft\Windows\Start Menu'

`%CommonAppdataDir%`:

NT5: 'c:\Documents and Settings\All Users\Application Data'

NT6: 'C:\ProgramData'

`%CommonDesktopDir%`

NT5: 'c:\Documents and Settings\All Users\Desktop'

NT6: 'C:\Users\Public\Desktop'

`%CommonStartupDir%`

NT5: 'c:\Documents and Settings\All Users\Autostart'

NT6: 'C:\ProgramData\Microsoft\Windows\Start Menu\Programs\StartUp'

`%CommonProgramsDir%`

2.3. Default User directories [W]:

`%DefaultUserProfileDir%` //since 4.11.1.1

2.4. Current user directories [W]:

User is the logged in user or given by /usercontext.

`%AppdataDir%` or `%CurrentAppdataDir%` //since 4.10.8.13

NT5: 'c:\Documents and Settings\%USERNAME%\Application Data' NT6: 'c:\users\%USERNAME%\Appdata\Roaming'

`%CurrentStartmenuDir%` //since 4.10.8.13

`%CurrentDesktopDir%` //since 4.10.8.13

`%CurrentStartupDir%` //since 4.10.8.13

`%CurrentProgramsDir%` //since 4.10.8.13

`%CurrentSendToDir%` //since 4.10.8.13

`%CurrentProfileDir%` //since 4.11.2.1

2.5. /AllUserProfiles directory constants [W/L/M]:

`%UserProfileDir%`

or

`%CurrentProfileDir%` // since 4.11.2.1

NT5: 'c:\Documents and Settings\%USERNAME%'

NT6: 'c:\users\%USERNAME%'

2.6. opsi-script Path and Directories [W/L/M]:

`%ScriptPath%` or `%ScriptDir%`

`%RealScriptPath%` (since 4.12.4.21)

`%ScriptDrive%`

`%OpsiscriptDir%` (since 4.12.3.6), `%WinstDir%`

`%OpsiscriptVersion%` (since 4.12.3.6), `%WinstVersion%` (since 4.10.8.3)

`%opsiscriptProcname%` (since 4.12.4.35)

`%Logfile%`

`%opsiScriptHelperPath%` `%ProgramFiles32Dir%` `\opsi.org\opsiScriptHelper\lib` // since 4.11.3.2

`%opsiTmpDir%` : `c:\opsi.org\tmp` // since 4.11.4.3

`%opsiUserTmpDir%` : `c:\opsi.org\usertmp` // since 4.12.4.37

`%opsiLogDir%` : `c:\opsi.org\log` // since 4.11.4.3

`%opsidata%` : `c:\opsi.org\data` // since 4.12.0.12

`%opsiapplog%` : `c:\opsi.org\applog` // since 4.12.0.12

2.7. Network informations [W/L/M]:

%Host% : value of environment variable HOST.

%PCName%: value of environment variable PCNAME, or if absent of COMPUTERNAME.

%Username% : Name of actual user.

%IPName% : The dns name of the pc. Usually identical with the netbios name and therefore with **%PCName%** besides that the netbios names uses to be uppercase.

%IPAddress% : may be the IP-Address of the machine. Use funktion `GetMyIpByTarget()` instead.

2.8. Service Data [W/L/M]

%HostID% : FQDN of the client in opsi service context, otherwise the computer name

%FQDN% : FQDN in network context

%FQDN% : FQDN in network context

%opsiserviceURL%

%opsiServer%

%opsiDepotId% //since 4.11.4

%opsiserviceUser% FQDN used for the connection to the opsi-config-server

%opsiserviceClientId% : command line option `/clientid`

%opsiservicePassword%

%installingProdName%: productid //since 4.10.8

%installingProdVersion%: product version //since 4.10.8

%installingProduct% : productid (deprecated)

2.9. Functions to handle constants [W/L/M]

`replaceOpsiConstants(<string list>)` : stringlist` //since 4.12.3.6 [W/L/M]

`replaceOpsiConstants(<string>)` : string` //since 4.12.3.6 [W/L/M]

Chapter 3. In Primary Sections

3.1. Kinds of Primary Sections [W/L/M]:

[Initial]

[Actions]

[sub<identifier>`]

sub <file name>

[ProfileActions] [W]

3.2. opsi-script control [W/L/M]:

encoding=<encoding> // (default is system encoding) since 4.11.4.2

LogLevel (deprecated)

SetLogLevel = <number> or SetLogLevel = <string> // (default=6)

```
SetLogLevel = 7
SetLogLevel = "7"
```

ExitOnError = <boolean value> // (default=false)

ScriptErrorMessages = <boolean value> // (default=true)

FatalOnSyntaxError = <boolean value> // (default=true) since 4.11.3.2

FatalOnRuntimeError = <boolean value> // (default=false) since 4.11.3.2

AutoActivityDisplay = <boolean value> // (default=false); if true shows a marquee (endless) progressbar while winbatch/dosbatch sections are . //since 4.11.4.7

forceLogInAppendMode = <boolean value> // (default=false); if true log will be send in append mode . //since 4.12.3.6

Message <string> or Message = <const string>

ShowMessageFile <string>

ShowBitMap [<file name>] [<sub title>]

comment <string> or comment = <const string>

LogError <string> or LogError = <const string>

LogWarning <string> or LogWarning = <const string>

includeLog <file name> <tail size> //since 4.11.2.1 [W/L/M]

includeLog <file name> <tail size> [<encoding>] //since 4.11.4.1 [W/L/M]

```
includeLog "%Scriptpath%\test-files\10lines.txt" "5"
```

SetConfidential <secret string> //since 4.11.3.5 [W/L/M]

asConfidential(<secret string expression>) : **string** //since 4.12.0.16 [W/L/M]

asConfidential(<secret stringlist expression>) : **stringlist** //since 4.12.4.15 [W/L/M]

Pause <string> or **Pause** = <const string>

Stop <string> or **stop** = <const string>

include_insert <file name> // since 4.11.3

include_append <file name> // since 4.11.3

NormalizeWinst // (set normal window state) since 4.11.3

IconizeWinst // (set minimized window state)

MaximizeWinst // (set maximized window state) // since 4.11.5.1

RestoreWinst // (restore last window state)

SetSkinDirectory <path to skin.ini> // since 4.11.3.5

runningInWanMode : boolean //since 4.12.4.17 [W/L/M]

3.3. Variables [W/L/M]:

3.3.1. Strings

DefVar <variable name>

; since 4.12.4.32 also possible:

DefVar <variable name> [= <inital value>]

Set <variable name> = <value>

3.3.2. Stringlists

DefstringList <variable name> ; since 4.12.4.32 also possible:

DefstringList <variable name> [= <inital value>]

3.4. Functions

3.4.1. String functions

Important

GetOS // 'Linux' or 'Windows_NT' [W/L/M]

getLinuxDistroType // 'debian' or 'redhat' or 'suse' (see **getLinuxVersionMap**) [L]

GetMsVersionInfo //Windows Version Information [W]

`GetMsVersionName` //Windows *marketing* Version //since 4.12.4.35 [W]

`GetSystemType` //OS Architecture ("64 Bit System" or "x86 System") [W/L/M]

`getOSArchitecture` // OS Architecture (x86_32 / x86_64/ arm_64) //since 4.12.4.17 [W/L/M]

`getRegistryValue`(`<keystr>`, `<varstr>`) : string //since 4.12.0.16 [W]
`<access str>` = one of 32bit, 64bit, sysnative ; default sysnative

`GetRegistrystringvalue` (`"[key] var"`) [W]

`GetRegistryStringValue32` (`"[key] var"`) //since 4.10.8 [W]

`GetRegistryStringValue64` (`"[key] var"`) //since 4.10.8 [W]

`GetRegistryStringValueSysNative` (`"[key] var"`) //since 4.10.8 [W]

`GetValueFromInifile` (file, section, key, default value) [W/L/M]

```
GetValueFromInifile("myfile", "mysec", "mykey", "")
```

`GetProductProperty` (<PropertyName>, <DefaultValue>) [W/L/M]

`GetConfidentialProductProperty` (<PropertyName>, <DefaultValue>`) //since 4.11.5.2 [W/L/M]

`trim`(`<string>`)` [W/L/M]

`lower`(`<string>`)` [W/L/M]

`upper`(`<string>`)` [W/L/M]

`unquote`(`<string>`,`<quote-string>`)` //since 4.11.2.1 [W/L/M]

`unquote2`(`<string>`,`<quote-string>`)` //since 4.11.5.2 [W/L/M]

`stringReplace`(`<string>`, `<oldPattern>`, `<newPattern>`)` //since 4.11.3 [W/L/M]

`strLength`(`<string>`)` //since 4.11.3 [W/L/M]

`strPos`(`<string>`, `<sub string>`)` //since 4.11.3 [W/L/M]

`strPart`(`<string>`, `<start pos>`, `<number of chars>`)` //since 4.11.3 [W/L/M]

`getValue`(`<key string>`, `<hash string list>`) [W/L/M]

`getValueBySeparator`(`<key string>`,`<separator string>`,`<hash string list>`) //since 4.11.2.1 [W/L/M]

`setValueByKey`(`<key>`, `<value>`, `<targetlist>`) [W/L/M]

`getValueFromFile`(`<key string>`, `<file name>`)` //since 4.11.4.4 [W/L/M]

`getValueFromFileBySeparator`(`<key string>`,`<separator string>`,`<file name>`)` //since 4.11.4.4 [W/L/M]

`getLastExitCode` : string (exitcode) [W/L/M]

Special: License Management

`DemandLicenseKey(poolId [, productId [,windowsSoftwareId]])`

```
set $mykey$ = DemandLicenseKey ("", "office2007")
```

`FreeLicense (`poolId [, productId [,windowsSoftwareId]])``

```
set $result$ = FreeLicense("", "office2007")
```

Special: Usercontext / loginscripts [W]:

`GetUserSID(<Windows Username>`)`

`GetLoggedInUser` //since 4.11.1.2

`GetUsercontext` //since 4.11.1.2

`GetScriptMode` possible values 'Machine','Login' //since 4.11.2.1

`saveVersionToProfile` - save productversion-packageversion to local profile //since 4.11.2.1

`readVersionFromProfile` : string - read productversion-packageversion from local profile //since 4.11.2.1

`scriptWasExecutedBefore` : boolean - is true if saved and running productversion-packageversion are identical //since 4.11.2.1

Other

`GetHostsName (<hostaddress>) [W/L/M]`

`GetHostsAddr (<hostname>) [W/L/M]`

`ExtractFilePath (<path>`)` [W/L/M]

`calculate(<arithmetic string expression>`)` // since 4.11.3.5 : knows: +-*/() [W/L/M]

`DecStrToHexStr (<decstring>, <hexlength>`)` [W/L/M]

`HexStrToDecStr (<hexstring>`)` [W/L/M]

`base64EncodeStr(<string>`)` [W/L/M]

`base64DecodeStr(<string>`)` [W/L/M]

`convert2Jsonstr(<string>`)` //since 4.10.8.3

`RandomStr` [W/L/M]

`RandomStrWithParameters` [W/L/M]

`RandomIntStr(<number str>)` : string` [W/L/M]

`CompareDotSeparatedStrings(<string1>, <string2>`)` : string` [W/L/M]

`CompareDotSeparatedNumbers(<string1>, <string2>`)` : string` [W/L/M]

`EnvVar (<environment variable>)` [W/L/M]

`ParamStr` [W/L/M]

`getDiffTimeSec` (Time in seconds since last marktime) //since 4.11.3 [W/L/M]

`SidToName(<well known sid>)` //since 4.11.3: gives localized name of the sid [W]

`GetMyIpByTarget(<target ip addr>): string` //since 4.11.3.2 /4.11.6 [W/L/M]

`GetIpByName(<ip addr / ip name>)` //since 4.11.3.2 [W/L/M]

`reencodestr(<str>, <from>, <to>)` //since 4.11.4.2 [W/L/M]

`strLoadTextFile (<filename>)` //since 4.11.4.6 [W/L/M]

`strLoadTextFileWithEncoding (<filename>, <encoding>)` //since 4.11.4.6 [W/L/M]

`GetShortWinPathName(<longpath string>)` //since 4.11.5.2 [W]

`stringinput(< message str>,< boolstr confidential>): string` //since 4.12.1.2 [W/L/M]

`which(<command in path>): string` (command with path) //since 4.12.3.6 [W/L/M]

`replaceOpsiConstants(<string>): string` //since 4.12.3.6 [W/L/M]

Deprecated

`GetNtVersion` Deprecated - please use `GetMsVersionInfo` [W]

`IniVar (<key>): (deprecated; use GetProductProperty)` [W]

`SubstringBefore (<string1>, <string2>)` (deprecated; use `splitString / takestring`) [W/L/M]

3.4.2. String list functions

Important

`splitString (<string1>, <string2>)` [W/L/M]

```
set $list1$ = splitString ("\\server\share\dir", "\")
```

`splitStringOnWhiteSpace (<string>)` [W/L/M]

`loadTextFile (<file name>)` [W/L/M]

`loadUnicodeTextFile (<file name>)` [W]

`loadTextFileWithEncoding (<file name>, <encoding>)` //since 4.11.5 [W/L/M]

`composeString (<string list>, <Link>)` [W/L/M]

`takeString (<index>, <list>)` [W/L/M]

`setStringInListAtIndex (<newstring>, <list>, <indexstr>): stringlist` //since 4.11.6 [W/L/M]

`takeFirstStringContaining(<list>,<search string>)`` [W/L/M]

`getOutputStreamFromSection (<dos section name>)`` [W/L/M]

```
set $list$= getOutputStreamFromSection ('DosInAnIcon_try')
```

`shellCall (<command string>): stringlist (output)`` //since 4.11.4.2 [W/L/M]

```
set $list$= shellCall('net start')
```

`getReturnListFromSection (<xml section name>)`` [W/L/M]

`getListContaining(<list>,<search string>)`` [W/L/M]

`getListContainingList(<list1>,<list2>)`` //since 4.11.3.7 [W/L/M]

`count (<list>)`` [W/L/M]

`emptylist (<list>)`` //since 4.11.3.7 [W/L/M]

`for %<identifier>% in <list> do <one statement | sub section>` [W/L/M]

```
for %s% in $list1$ do sub_test_string
```

`GetProcessList` //since 4.11.1.2; gives list of exename;pid;dom/user [W/L/M]

`getProductPropertyList(<propname>,<default value>)`` //since 4.11.3 [W/L/M]

`getRegistryKeyList32(<regkey>)`` //since 4.11.3 [W]

`getRegistryKeyList64(<regkey>)`` //since 4.11.3 [W]

`getRegistryKeyListSysnative(<regkey>)`` //since 4.11.3 [W]

`getRegistryVarList32(<regkey>)`` //since 4.11.3 [W]

`getRegistryVarList64(<regkey>)`` //since 4.11.3 [W]

`getRegistryVarListSysnative(<regkey>)`` //since 4.11.3 [W]

`getProfilesDirList` //since 4.11.3.2 [W/L/M]

`listFiles (<Path>, <Searchmask>, <SearchSubDirectories>, <[Redirection]>): stringlist`` //since 4.12.3 [W/L/M]

```
Set $Filelist$ = listFiles("C:\windows\system32","*.Devices*.dll","False","64bit")
```

`replaceOpsiConstants(<string list>): stringlist`` //since 4.12.3.6 [W/L/M]

Infomaps

`getLocaleInfoMap` [W]

`getMSVersionMap` [W]

`getLinuxVersionMap` //since 4.11.4 [L]

keys are (example):

```
Distributor ID=Ubuntu
Description=Ubuntu 12.04.2 LTS
Release=12.04
Codename=precise
kernel name=Linux
node name=detlefv05
kernel release=3.2.0-40-generic-pae
kernel version=#64-Ubuntu SMP Mon Mar 25 21:44:41 UTC 2013
machine=i686
processor=athlon
hardware platform=i386
operating system=GNU/Linux
```

`getFileInfoMap(<file name>)` [W]

`getProductMap` // since 4.11.2.4 [W/L/M]

keys are: id, name, description, advice, productversion, packageversion, priority, installationstate, lastactionrequest, lastactionresult, installedversion, installedpackage, installedmodificationtime,actionrequest

`getRegistryVarMap32(<regkey>)` //since 4.11.3 [W]

`getRegistryVarMap64(<regkey>)` //since 4.11.3 [W]

`getRegistryVarMapSysnative(<regkey>)` //since 4.11.3 [W]

`getHWBiosInfoMap` //since 4.11.4 [W/L/M]

`editmap(<strlist>): stringlist` //since 4.12.1.2 [W/L/M]

Other

`createStringList (<string0>, <string1>, ...)` [W/L/M]

```
set $list1$ = createStringList ('a','b')
```

`reverse (<list>)` [W/L/M]

`getSectionNames(<ini-file>)` [W/L/M]

`retrieveSection (<section name>)` [W/L/M]

`getSubList (<start index> : <end index>, <list>)` [W/L/M]

`getSubListByMatch (<search string>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

`getSubListByMatch (<search list>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

`getSubListByContaining (<search string>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

`getSubListByContaining (<search list>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

`getSubListByKey (<search string>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

`getSubListByKey (<search list>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

`getKeyList (<list>): stringlist` //since 4.12.0.14 [W/L/M]

`addtolist(<list>,<string>)` //since 4.10.8 [W/L/M]

`addListToList(<dest list>,<src list>)` //since 4.10.8 [W/L/M]`

`reencodestrList(<list>, <from>, <to>)` //since 4.11.4.2 [W/L/M]`

`removeFromListByContaining(<search string>`,` <target list>`) : stringlist` //since 4.11.5.1 [W/L/M]`

`removeFromListByContaining(<search list>`,` <target list>`) : stringlist` //since 4.11.5.1 [W/L/M]`

`removeFromListByMatch(<searchstring>,<target list>`) : stringlist` //since 4.11.6 [W/L/M]`

3.4.3. Boolean operators and functions

`<string1> = <string2> [W/L/M]`

`<bool1> AND <bool2> [W/L/M]`

`<bool1> OR <bool2> [W/L/M]`

`NOT(<bool3>) [W/L/M]`

`FileExists (<file name>)` [W/L/M]`

`FileExists32 (<file name>)` [W]`

`FileExists64 (<file name>)` [W]`

`FileExistsSysNative (<file name>)` [W]`

`DirectoryExists (<folder path> [,<access str>]) : boolean //since 4.12.1 [W/L/M]`
'sysnative' is the default for <access str>. Otherwise, it can be '32bit', '64bit' or 'sysnative'

`FileOrFolderExists (<file or folder path> [,<access str>]) : boolean [W/L/M]` 'sysnative' is the default for <access str>. Otherwise, it can be '32bit', '64bit' or 'sysnative'

`fileIsSymlink (<file name>)` // since 4.12.4.21 [W/L/M]`

`LineExistsIn (<string>, <file name>)` [W/L/M]`

`LineBeginning_ExistsIn (<string>, <file name>)` [W/L/M]`

`LineContaining_ExistsIn (<string>, <file name>) //since 4.11.4.10: true: if a in <file name> contains <string> [W/L/M]`

`XMLAddNamespace(<XMLfilename>, <XMLelementname>, <XMLnamespace>)` [W]`

`XMLRemoveNamespace(<XMLfilename>, <XMLelementname>, <XMLnamespace>)` [W]`

`HasMinimumSpace (<drive letter>, <capacity>)` [W]`

Example:

```
if not (HasMinimumSpace ("%SYSTEMDRIVE%", "500 MB"))
    LogError "Required free space of 500 MB not available on %SYSTEMDRIVE%"
    isFatalError
endif
```

`opsiLicenseManagementEnabled [W/L/M]`

`runningAsAdmin //since 4.11.1.1 [W/L/M]`

`isLoginScript` //since 4.11.2.1 [W]

`contains(<str>, <substr>)` : bool //since 4.11.3: true if <substr> in <str> [W/L/M]

`isNumber(<str>)` //since 4.11.3: true if <str> represents an integer [W/L/M]

`runningOnUefi` //since 4.11.4.3: true: if the running OS was booted in UEFI mode [W]

`runningInPE` //since 4.12.0.13: true: if the running OS is a Windows PE [W/L/M]

`runningInWANMode` //since 4.12.4.16: true: if opsiserver = localhost [W/L/M]

`isDriveReady(<drive letter>)` //since 4.11.4.4: true: if the drive can be accessed [W]

`runningWithGui` : bool //since 4.12.3.6: true: if the running OS has a GUI (at Win+Mac always true)[M/L/W]

`saveTextFile(<list>, <filename>)` //since 4.11.4.4: true: if list is successfully written to file [W/L/M]

`saveTextFileWithEncoding(<list>, <filename>, <encoding>)` : bool //since 4.11.6.4: true: if list is successfully written to file [W/L/M]

`saveUnicodeTextFile(<list>, <filename>, <encoding>)` : bool //since 4.12.4.13: true: if list is successfully written to unicode file [W/L/M]

`CompareDotSeparatedNumbers(<str1>,<relation str>,<str2>)` //since 4.11.5.2: [W/L/M]

`CompareDotSeparatedStrings(<str1>,<relation str>,<str2>)` //since 4.11.5.2: [W/L/M]

`RegKeyExists(<regkey>[,<access str>])` : bool //since 4.12.0.16 [W]
<access str> = one of 32bit, 64bit, sysnative ; default sysnative

`RegVarExists(<regkey>, <var str>)` : bool //since 4.12.0.16 [W]
<access str> = one of 32bit, 64bit, sysnative ; default sysnative

`isPingReachable(<host>)` : boolean //since 4.12.3.6 [W/L/M]

`isValidFQDN(<domain name>)` : boolean //since 4.12.4.4 [W/L/M]

`fileHasBom (<file name>)` : boolean //since 4.12.4.17 [W/L/M]

3.4.4. Misc functions

`Killtask <process name>` [W/L/M]

`requiredOpsiscriptVersion <relation operator> <version>` //since 4.12.3.6 [W/L/M]

```
requiredOpsiscriptVersion >= "4.12.3.6"
```

`requiredWinstVersion <relation operator> <version>` [W/L/M]
outdated - use `requiredOpsiscriptVersion`

`UpdateEnvironment` //since 4.11.5 [W]:

Subsequent calls of `winbatch` with the parameter `/RunElevated` will see the changed Environment (NT6 only).

3.4.5. Flow control

'if - elseif - else - endif' [W/L/M]

Syntax:

```
if <condition>
;statement(s)
[elseif <condition>
;statement(s)]
[else
;statement(s)]
endif
```

elseif //since 4.12.4.37

Example:

```
Set $NTVer$ = GetMsVersionInfo
if ( $NTVer$ >= "6" )
    sub_install_win7
else
    if ( $NTVer$ = "5.1" )
        sub_install_winXP
    else
        stop "not a supported OS-Version"
    endif
endif
endif
```

'for - to - do' Statement //since 4.11.5 [W/L/M]

for %<temporary string variable>% = <start string> to <end string> do <one statement>

Example:

```
for %%s = "1" to "5" do sub_iteration_test
```

'Switch / Case' Statement //since 4.11.5 [W/L/M]

ifdef::manual[see also : [\[SwitchCase\]](#)]

Can not be nested.

Syntax:

```
Switch <string expression>
Case <string const>
    <statement(s)>
EndCase
[DefaultCase
    <statement(s)>
EndCase]
EndSwitch
```

Example:

```
set $ConstTest$ = "5"
Switch $ConstTest$
    Case "1"
        set $CompValue$ = "1"
    EndCase
    Case "2"
        set $CompValue$ = "2"
    EndCase
    DefaultCase
        set $CompValue$ = "notexisting"
    EndCase
EndSwitch
```

isFatalError [W/L/M]

isFatalError <string> //since 4.11.3.2 [W/L/M]

`isSuccess` //since 4.11.3.7 [W/L/M]

`isSuspended` //since 4.11.4.1 [W/L/M]

`noUpdateScript` //since 4.11.3.7 [W/L/M]

`ExitWindows /Reboot` [W/L/M]

`ExitWindows /ImmediateReboot` [W/L/M]

`ExitWindows /ImmediateLogout` [W]

`ExitWindows /ShutdownWanted` [W]

`ExitWindows /RebootWanted` (deprecated, acts like /Reboot) [W]

`sleepSeconds` <Integer> or <string> : noresult [W/L/M]

`ChangeDirectory` <directory> //since 4.11.2.6 [W/L/M]

Chapter 4. Secondary Sections

4.1. Winbatch [W/L/M]

Function: execute programs via operating system API

`[WinBatch<identifier>`]`

Modifier:

`/LetThemGo`

`/WaitForProcessEnding "<program.exe>"`

`/TimeOutSeconds <seconds>`

`/WaitForWindowAppearing <window title>` ('does not work with 64 Bit programs') [W]

`/WaitForWindowVanish <window title>` ('does not work with 64 Bit programs') [W]

`/RunElevated` // since 4.11.3: only at >= NT6 ; no network access [W]

`/RunAsLoggedOnUser` // since 4.11.3.5 ; works only inside 'userLoginScripts' [W]

`/32Bit` //since 4.11.3.5 [W]

`/64Bit` //since 4.11.3.5 [W]

`/SysNative` //since 4.11.3.5 [W]

4.2. DosBatch and DosInAnIcon (ShellBatch and ShellInAnIcon) [W/L/M]

Function: Execute section via cmd.exe [W] or bash [L/M]

`[DosBatch<identifier>`]` <optional parameters> <winst <modifier>>`

`[DosInAnIcon<identifier>`]` <optional parameters> <winst <modifier>>`

`[ShellBatch<identifier>`]` <optional parameters> <winst <modifier>>`

`[ShellInAnIcon<identifier>`]` <optional parameters> <winst <modifier>>`

Modifier: //since 4.11.1.1

`/32Bit` [W]

`/64Bit` [W]

`/SysNative` [W]

`/showoutput` [W/L/M] // since 4.11.4.7

`/WaitForProcessEnding "<program.exe>"` // since 4.12.4 [W/L/M]

/TimeOutSeconds <seconds> // since 4.12.4 [W/L/M]

/RunElevated // since 4.12.4: only at >= NT6 ; no network access [W]

The modifiers has to be seperated by 'winst' from the parameters.

```
DosInAnIcon_do_64bit_stuff winst /64Bit
```

Commands: see manual

4.3. ExecWith [W/L/M]

Function: Execute section via any interpreter

[ExecWith<identifier>`] <path to interpreter>

Modifier:

/LetThemGo

/EscapeStrings

/32Bit //since 4.11.3.5 [W]

/64Bit //since 4.11.3.5 [W]

/SysNative //since 4.11.3.5 [W]

The modifiers has to be seperated by 'winst' from the parameters. The following example call the 64Bit version of the powershell.exe.

```
ExecWith_do_64bit_stuff "%System%\WindowsPowerShell\v1.0\powershell.exe" winst /64Bit
```

Commands: see manual

4.4. Files [W/L/M]

Function: File Operations

[Files<identifier>`]

Modifier [W]:

/AllNTUserProfiles

/AllNTUserSendTo [W]

/32Bit //since 4.10.8 [W]

/64Bit //since 4.10.8 [W]

/SysNative //since 4.10.8 [W]

Commands:

checkTargetPath = <destination directory> [W/L/M]

copy [Options] <source file(s)> <destination directory> [W/L/M]

options:

-s recursive [W/L/M]

-e empty Subdirectories

-V version control against targetdir [W]

-v version control against targetdir, %systemroot% and %system% (**do not use it**) [W]

-c continue without reboot even if it is needed [W]

-d date check [W]

-u update [W]

-x extract [W]

-w weak (do not overwrite protected files) [W]

-n no overwrite [W]

-r copy read only attribute [W]

-h follow symlinks [L] //since 4.11.6.14

delete [Options] <path[/mask]] // [W/L/M]

options:

-s recursive

-f force

r -del on reboot

c continue with out reboot

d [n] date

Example (**do not forget the trailing Backslash**):

```
delete -sf c:\delete_this_dir\
```

del [Options] <path[/mask]] //since 4.11.2.1 [W/L/M]

Works like **delete** but on

```
del -s -f c:\not-exists
```

if c:\not-exists not exists it do not search complete c:\ for not-exits

Example (**you may forget the trailing Backslash**):

```
del -sf c:\delete_this_dir
```

chmod <mode> <path> //since 4.11.4.1 [L]

hardlink <existing file> <new file> // since 4.11.5 [W/L/M]

symlink <existing file> <new file> // since 4.11.5 [W/L/M]

At Windows **symlink** is only available at NT6 and up.

rename <old filename> <new filename> // since 4.11.5 [W/L/M]

move <old filename> <new filename> // since 4.11.5 [W/L/M]

zipfile <source dir> <zip file> // since 4.12.1 [W/L/M]

unzipfile <zip file> <target dir> // since 4.12.1 [W/L/M]

4.5. Registry [W]

Function: edit Registry

Standard method call:

[Registry<identifier>]`

works with the specified section.

Alternative method call:

Registry loadUnicodeTextFile(<.reg file>`) /regedit`

import the specified <.reg file>.

Alternative method call (deprecated):

Registry loadUnicodeTextFile(<.addreg file>`) /addreg`

import the specified <.addreg file>.

Modifier:

/AllNTUserDats

/32Bit //since 4.10.8

/64Bit //since 4.10.8

/SysNative //since 4.10.8

Commands:

OpenKey <Key>

```
openkey [HKLM\Software\opsi.org]
```

Set <varname> = <registry type>:<value>

Add <varname> = <registry type>:<value>

Examples for registry types:

```
set "var1" = "my string"
set "var2" = REG_SZ:"my string"
set "var3" = REG_EXPAND_SZ:"%ProgramFiles%"
set "var4" = REG_DWORD:123 (Decimal)
set "var5" = REG_DWORD:0x7b (Hexadecimal)
set "var6" = REG_BINARY:00 01 02 0F 10
set "var7" = REG_MULTI_SZ:"A|BC|de"
```

Supp <varname> <list char> <supplement>

```
supp "Path" ; "C:\utils; %JAVABIN%"
```

`GetMultiSZFromFile` <varname> <file name>

`SaveValueToFile` <varname> <file name>

`DeleteVar` <varname>

`DeleteKey` <registry key> (does since 4.11.2.1 also work with /AllNTUserDats)

4.6. Patches [W/L/M]

Function: edit Ini-files

`[Patches<identifier>`]` <file name>

Modifier:

`/AllNTUserProfiles` //since 4.11.3 [W]

Commands:

`add` [<section name>`] <variable1> = <value1>

`set` [<section name>`] <variable1> `= <value1>

`addnew` [<section name>`] <variable1> `= <value1>

`change` [<section name>`] <variable1> `= <value1>

`del` [<section name>`] <variable1> = <value1>

`del` [<section name>`] <variable1>

`delsec` [<section name>`]

`replace` <variable1>`= <value1> <variable2>`= <value2>

4.7. PatchTextFile [W/L/M]

Function: edit text files

`[PatchTextFile<identifier>`]`` <file name>

Modifier:

`/AllNTUserProfiles` //since 4.11.3.4 [W]

`/encoding` <encoding> //since 4.12.4.17 [W/L/M]

Commands:

`Set_Mozilla_Pref` (`"<preference type>", "<preference key>", "<preference value>")`

'preference type' takes any value.

Some examples for preference types: `pref`, `user_pref`, `lock_pref` or `lockPref`.

`AddStringListElement_To_Mozilla_Pref` (`"<preference type>", "<preference key>", "<add value>")`

`Set_Netscape_User_Pref` (`"<key>", "<value>")` ('deprecated')

`AddstringListElement_To_Netscape_User_Pref` ('deprecated')

`FindLine` <search string>

`FindLine_StartingWith` <search string>

`FindLine_Containing` <search string>

`GoToTop`

`AdvanceLine` [<number of lines>]

`GoToBottom`

`DeleteTheLine`

`AddLine_` <line> or `Add_Line_` <line>

`InsertLine` <line> or `Insert_Line_` <line>

`AppendLine` <line> or `Append_Line` <line>

`Append_File` <file name>

`Subtract_File` <file name>

`SaveToFile` <file name>

`Sorted`

`setKeyValueSeparator` <separator char> //since 4.11.4.4 [W/L/M]

`setValueByKey` <keyst> <valuestr> //since 4.11.4.4 [W/L/M]

4.8. LinkFolder [W/L/M]

Function: Startmenu + Desktop Icons

[`LinkFolder`<identifier>`]

Commands:

`set_basefolder` <system folder>

`set_subfolder` <folder path> (at Linux set always "")

```
set_link
name:          <link name>
target:        <path and name of the program>
parameters:    [command line arguments]
working_dir:   [working directory]
icon_file:     [path and name of icon file, default=target]
icon_index:   [number of icon in icon file, default=0] [W]
shortcut:     [keyboard shortcut for calling the target] [W]
link_categories: [list of categories] [L]
end_link
```

`delete_element` <link name>

`delete_subfolder` <folder path> [W]

The predefined virtual system folders which can be used are at Windows:

`desktop`, `sendto`, `startmenu`, `startup`, `programs`, `desktopdirectory`,
`common_startmenu`, `common_programs`, `common_startup`, `common_desktopdirectory`

and at Linux:

`common_programs`, `common_startup`, `desktop`, `startup`

Predefined `link_categories` for Linux:

`AudioVideo`, `Audio`, `Video`, `Development`, `Education`, `Game`, `Graphics`, `Network`, `Office`, `Settings`, `System`, `Utility`

Examples

```
set_basefolder common_desktopdirectory
set_subfolder ""
set_link
  name: opsi-winst
  target: "%ProgramFiles32Dir%\opsi.org\opsi-client-agent\opsi-winst\winst32.exe"
end_link
```

```
[LinkFolder_configed_lin]
set_basefolder common_programs
set_subfolder ""

set_link
  name: opsi-configed-Local
  target: java
  parameters: $parameter$
  icon_file: "$InstallDir$/opsi.png"
  link_categories: System;Utility;
end_link
```

The predefined virtual system folders:

`desktop`, `sendto`, `startmenu`, `startup`, `programs`, `desktopdirectory`

are pointing to the folders of the user that the script is running. If you use it in a `userLoginScript` with the opsi 'User Profile Management' extension these virtual folders point to the folder of the user that just had logged in.

'shortcut' defaults to `empty`. // since 4.11.6.7

`shortcut` may be a combination of ['shift','alt','ctrl'] (not case sensitiv) divided by '|','+', an a 'Key' or a 'Virtual Key Code'.

The 'Key' is a letter ('A' - 'Z') or a numeral ('0' - '9'). All other Keys must be given by there 'Virtual Key Code' identifier. To get these identifier (as well as the allowed combinations) just use the following helper program:

<http://download.uib.de/opsi4.0/helper/showkeys.exe>

4.9. OpsiServiceCall [W/L/M]

Function: opsi-Service access

`[OpsiServiceCall<identifier>`]`

Commands: see manual

4.10. PatchHosts [W/L/M]

Function: hosts-files bearbeiten

`[PatchHosts<identifier>`]`

Commands:

`setaddr` <hostname> <IPaddress>

`setname` <IPaddress> <hostname>

`setalias` <hostname> <alias>

setalias <IPadresse> <alias>

delalias <hostname> <alias>

delalias <IPaddress> <alias>

delhost <hostname>

delhost <ipadresse>

setComment <ident> <comment>

4.11. XML2 Sections [W/L/M]

Function: edit XML files

since 4.12.1.0

[XML2<identifier>`]

Commands:

- **strictMode** = (true/false) ; Default: false
- **openNode** <xml2 path>
Open the given Path as actual node. If the path does not exist it will be created
- **SetAttribute** <attr name> <attr value>
At the actual node set <attr value> as value of <attr name>. If <attr name> not exists, it will be created.
- **AddAttribute** <attr name> <attr value>
If at the actual node the attribute <attr name> not exists, it will be created with <attr value> as value. If <attr name> still exists, nothing will be changed.
- **DeleteAttribute** <attr name>
If at the actual node the attribute <attr name> exists, it will be deleted.
- **addNewNode** <node name>
Create at the actual node a new sub node <node name> and make this new node to the actual node.
- **setNodeText** <string>
- **DeleteNode** <xml2 path>
- **gotoParentNode**
Make the parent node to the actual node.
- **rootNodeOnCreate** = <node name> // since 4.12.4.27
If the file not exists it will be created with <node name> as root node name.
- * **setNodePair** <keyNodeName> <keyNodeTextContent> <valueNodeName> <valueNodeTextContent> // since 4.12.4.28
Creates a <dict> entry like it is used in the Apple info.plist files:

Some notes to the command parameters:

- <xml2 path> **strictMode =false**:
A line of xml node names with optional one attribute separated by ` // `'
Example: `node_level-1_number-1 // node_level-2_B color="green"``
- <xml2 path> **strictMode =true**:
A line of xml node names with all existing attributes separated by ` // `'
Example: `node_level-1_number-1 // node_level-2_B color="green" count="65"``

see also : [Section 5.25, "XML related functions \(XML2\) \[W/L/M\]:"](#)

4.12. XMLPatch [W]

Function: edit XML files

Deprecated: please use xml2 sections: [Section 4.11, “XML2 Sections \[W/L/M\]”](#)
and xml2 functions: [Section 5.25, “XML related functions \(XML2\) \[W/L/M\]:”](#)

`[XMLPatch<identifier>`]`

Commands: see manual

4.13. ExecPython [W/L/M]

Function: Execute section via python interpreter

`[ExecPython<identifier>`]`

Commands: see manual

4.14. LdapSearch [WLM]

Function: read from LDAP

`[LdapSearch<identifier>`]`

Commands: see manual

Chapter 5. By Topic

5.1. Compare related functions [W/L/M]

`CompareDotSeparatedStrings(<string1>, <string2>)` : string` [W/L/M]

`CompareDotSeparatedStrings(<str1>,<relation str>,<str2>)` : bool` //since 4.11.5.2: [W/L/M]

`CompareDotSeparatedNumbers(<string1>, <string2>)` : string` [W/L/M]

`CompareDotSeparatedNumbers(<str1>,<relation str>,<str2>)` : bool` //since 4.11.5.2: [W/L/M]

`boolToString(<boolean expression>)` : bool string (true/false) // since 4.12.0.0 [W/L/M]

`stringToBool(<string expression: true/false>)` : boolean // since 4.12.0.0 [W/L/M]

5.2. Crypt / Hash related functions [W/L/M]

`DecStrToHexStr (<decstring>, <hexlength>)` : string` [W/L/M]

`HexStrToDecStr (<hexstring>)` : string` [W/L/M]

`base64EncodeStr(<string>)` : string` [W/L/M]

`base64DecodeStr(<string>)` : string` [W/L/M]

`RandomStr` : string [W/L/M]

`RandomIntStr(<number str>)` : string` [W/L/M]

`encryptStringBlow(<keystring>,<datastring>)` : string` [W/L/M]

`decryptStringBlow(<keystring>,<datastring>)` : string` [W/L/M]

`md5sumFromFile(<path to file>)` : string` [W/L/M]

`isCertInstalledInSystem(<label>)` : boolstring` [W/L/M] //since 4.12.4.37

`importCertToSystem(<filename>)` : noresult` [W/L/M] //since 4.12.4.37

`removeCertFromSystem(<label>)` : noresult` [W/L/M] //since 4.12.4.37

`listCertificatesFromSystem` : stringlist` [W/L/M] //since 4.12.4.37

5.3. Defined Functions and Libraries [W/L/M]

since 4.12.0.0

Definition

```
DefFunc <func name>([calltype parameter ptype][,[calltype parameter ptype]]) : ftype
<function body>
endfunc
```

Where:

- **DefFunc** is the keyword used to start defining a local function..
- '<func name>' is the freely chosen name of the function.
- 'calltype' is the call type of the parameter [**val** | **ref**]. **val**='Call by Value', **ref**='Call by Reference'. Default: **val**
- 'parameter' is the free selected name of the call parameter which is available as a local variable within the function under the aforementioned name.
- 'ptype' is the type of data of the parameter wether **string** or **stringlist**.
- 'ftype' is the type of data of the function wether **string**, **stringlist** or **void**. **void** declares that no result is returned.
- '<function body>': is the body of the function which opsi-script syntax must suffice.
- **endfunc** is the keyword used to end defining a local function..

```
importLib <string expr> ; import library // since 4.12.0.0
<string expr> : <file name>[.<file extension>][: :<function name>]
If no '<file extension>' is given .opsiscript is used as default.
If no '::<function name>' is given, all function from the given file will be imported.
```

<file name> is:

- A complete path to an existing file. [W/L/M]
- A existing file in **%ScriptPath%** [W/L/M]
- A file in **%opsiScriptHelperPath%\lib** [W]
 - Is equivalent to: '%ProgramFiles32Dir%\opsi.org\opsiScriptHelper\lib'
- A existing file in **%ScriptPath%/../lib** [W/L/M]
- A existing file in **%WinstDir%\lib** [W] or **/usr/share/opsi-script/lib** [L]

The tests for the location of the <file name> are done in the order above. 'opsi-script' uses the first file it finds that has a matching name.

5.4. Encoding related functions [W/L/M]

```
encoding=<encoding> // (default is system encoding) since 4.11.4.2
```

```
GetLocaleInfoMap : stringlist [W]
```

```
reencodestr(<str>, <from>, <to>`) : string` //since 4.11.4.2 [W/L/M]
```

```
reencodestrlist(<list>, <from>, <to>`) : stringlist` //since 4.11.4.2 [W/L/M]
```

```
fileHasBom (<file name>) : boolean` //since 4.12.4.17 [W/L/M]
```

```
loadUnicodeTextFile (<file name>`) : stringlist` [W/L/M]
```

```
loadTextFileWithEncoding(<file name> , <encoding>`) : stringlist` //since 4.11.5 [W/L/M]
```

```
strLoadTextFileWithEncoding (<filename> , <encoding>`) : string` //since 4.11.4.6 [W/L/M]
```

```
saveTextFileWithEncoding(<list>, < filename>`,` <encoding>`) : bool` //since 4.11.6.4: true: if list is succesfully written to file [W/L/M]
```

```
includeLog <file name> <tail size> [<encoding>`] : noresult`//since 4.11.4.1 [W/L/M]
```

5.5. Error / Warning related functions [W/L/M]

`ExitOnError` = <boolean value> // (default=false)

`ScriptErrorMessages` = <boolean value> // (default=true)

`FatalOnSyntaxError` = <boolean value> // (default=true) since 4.11.3.2

`FatalOnRuntimeError` = <boolean value> // (default=false) since 4.11.3.2

`LogError` <string> or `LogError` = <const string>

`LogWarning` <string> or `LogWarning` = <const string>

`isFatalError` [W/L/M]

`isFatalError` <string> //since 4.11.3.2 [W/L/M]

`markErrorNumber`

`errorsOccurredSinceMark` <relation> <integer> : boolean

```
markErrorNumber
comment "log error and thereby increase the error counter"
if errorsOccurredSinceMark > 0
    comment "There was an error ..."
endif
```

`getLastExitCode` : string (exitcode) [W/L/M]

`shellCall` (<command string>) : string (exitcode) //since 4.11.6.1 [W/L/M]

`processCall`(<string>) : string (exitcode) //since 4.11.6.1 [W/L/M]

`getLastServiceErrorClass` : string

`getLastServiceErrorMessage` : string

5.6. File related functions [W/L/M]

`strLoadTextFile` (<file name>) : string [W/L/M]

`strLoadTextFileWithEncoding` (<filename>, <encoding>) : string //since 4.11.4.6 [W/L/M]

`loadTextFile` (<file name>) : stringlist [W/L/M]

`loadUnicodeTextFile` (<file name>) : stringlist [W]

`loadTextFileWithEncoding` (<file name>, <encoding>) : stringlist //since 4.11.5 [W/L/M]

`fileHasBom` (<file name>) : boolean //since 4.12.4.17 [W/L/M]

`FileExists` (<file name>) : bool [W/L/M]

`FileExists32` (<file name>) : bool [W]

`FileExists64` (<file name>) : bool [W]

FileExistsSysNative (<file name>): bool` [W]

DirectoryExists (<folder path> [,<access str>]): boolean //since 4.12.1 [W/L/M]
'sysnative' is the default for <access str>. Otherwise, it can be '32bit', '64bit' or 'sysnative'

FileOrFolderExists (<file or folder path> [,<access str>]): boolean [W/L/M] 'sysnative' is the default for <access str>. Otherwise, it can be '32bit', '64bit' or 'sysnative'

fileIsSymlink (<file name>): bool` // since 4.12.4.21 [W/L/M]

resolveSymlink (<file name>): <file name>` // since 4.12.4.21 [W/L/M]

listFiles (<Path>, <Searchmask>, <SearchSubDirectories>, <[Redirection]>): stringlist` //since 4.12.3 [W/L/M]

```
Set $Filelist$ = listFiles("C:\windows\system32", "*.Devices.*.dll", "False", "64bit")
```

forcePathDelims (<path string>): <path string>` // since 4.12.4.21 [W/L/M]

LineExistsIn (<string>, <file name>): bool` [W/L/M]

LineBeginning_ExistsIn (<string>, <file name>): bool` [W/L/M]

LineContaining_ExistsIn(<string>, <file name>) : bool` //since 4.11.4.10 [W/L/M]
true: if a in <file name> contains <string>

saveTextFile(<list>, < filename>): bool` //since 4.11.4.4 [W/L/M]
true: if list is successfully written to file

saveTextFileWithEncoding(<list>, < filename>`, <encoding>): bool` //since 4.11.6.4 [W/L/M]
true: if list is successfully written to file

getFileInfoMap(<file name>) : stringlist [W]

getFileInfoMap32(<file name>) : stringlist //since 4.11.6.6 [W]

getFileInfoMap64(<file name>) : stringlist //since 4.11.6.6 [W]

getFileInfoMapSysnative(<file name>) : stringlist //since 4.11.6.6 [W]

ExtractFilePath (<path>): string` [W/L/M]

ExtractFileExtension (<path>): string` [W/L/M] //since 4.12.1

ExtractFileName (<path>): string` [W/L/M] //since 4.12.1

see also: [Section 4.4, "Files \[W/L/M\]"](#)

see also: [Section 4.7, "PatchTextFile \[W/L/M\]"](#)

5.7. Ini file related functions [W/L/M]

GetValueFromInifile (file, section, key, default value) : string [W/L/M]

```
GetValueFromInifile("myfile", "mysec", "mykey", "")
```

getSectionNames(<ini-file>): stringlist` [W/L/M]

`GetSectionFromInifile(<ini-file>)` : stringlist` [W/L/M]

`getValue(<key string>, <hash string list>)` : string [W/L/M]

`getValueBySeparator(<key string>,<separator string>,<hash string list>)` : string //since 4.11.2.1 [W/L/M]

`setValueByKey(<key>, <value>, <targetlist>)` : stringlist [W/L/M]

`getValueFromFile(<key string>, <file name>)` : string` //since 4.11.4.4 [W/L/M]

`getValueFromFileBySeparator(<key string>,<separator string>,<file name>)` : string` //since 4.11.4.4 [W/L/M]

see also: [Section 4.6, “Patches \[W/L/M\]”](#)

5.8. Interaction [W/L/M]

`Pause <string> or Pause = <const string>`

`Stop <string> or stop = <const string>`

`setActionProgress <string>` : noresult //since 4.11.3 [W/L/M]

`Message <string> or Message = <const string>`

`ShowMessageFile <string>`

`ShowBitMap [<file name>] [<sub title>]`

`stringinput(< message str>,< boolstr confidential>)` : string` //since 4.12.1.2 [W/L/M]

`editmap(< strlist>)` : stringlist` //since 4.12.1.2 [W/L/M]

5.9. License Management related functions [W/L/M]

`DemandLicenseKey(poolId [, productId [,windowsSoftwareId]])` : string

```
set $mykey$ = DemandLicenseKey ("", "office2007")
```

`FreeLicense (`poolId [, productId [,windowsSoftwareId]])` : string`

```
set $result$ = FreeLicense("", "office2007")
```

`getLastServiceErrorClass` : string

`getLastServiceErrorMessage` : string

`opsiLicenseManagementEnabled` : bool

5.10. Linux specific functions [W/L/M]

`GetOS` : string // 'Linux' or 'Windows_NT' or 'macos' [W/L/M]

`getLinuxDistroType` : string // 'debian' or 'redhat' or 'suse' (see [getLinuxVersionMap](#)) [L]

`getLinuxVersionMap` : `stringlist` //since 4.11.4 [L]

`chmod` in Files sections [L/M]

`waitForPackageLock(<wait_seconds>,<abort_on_timeout>)` : `bool` // since 4.11.6.1 [L]

`importlib "uib_lin_install"` :

`cleanupPackageSystem` : `void` //since 4.13.4 [L]

`installupdates` : `string` //since 4.13.4 [L]

`deinstall($packagelist$: stringlist)` : `string` //since 4.13.4 [L]

`redinstall($packagelist$: stringlist)` : `string` //since 4.13.4 [L]

`suseinstall($packagelist$: stringlist)` : `string` //since 4.13.4 [L]

`ucsinstall($packagelist$: stringlist)` : `string` //since 4.13.4 [L]

`genericLinInstall($packagelist$: stringlist)` : `string`

`linuxInstallOneOf($packagelist$: stringlist)` : `string`

`isOneInstalled($packagelist$: stringlist)` : `string`

`linuxInstallOneFile($packagefile$: string)` : `string`

`linuxRemoveOnePackage($packagename$: string)` : `string`

`linuxRemoveOneOf($packagelist$: stringlist)` : `string`

5.11. Logging related functions [W/L/M]

`SetLogLevel` = <number> or `SetLogLevel` = <string> // (default=6)

```
SetLogLevel = 7
SetLogLevel = "7"
```

`Message` <string> or `Message` = <const string>

`comment` <string> or `comment` = <const string>

`LogError` <string> or `LogError` = <const string>

`LogWarning` <string> or `LogWarning` = <const string>

`includeLog` <file name> <tail size> //since 4.11.2.1 [W/L/M]

`includeLog` <file name> <tail size> [<encoding>] //since 4.11.4.1 [W/L/M]

```
includeLog "%Scriptpath%\test-files\10lines.txt" "5"
```

`SetConfidential` <secret string> //since 4.11.3.5 [W/L/M]

`asConfidential`(<secret string expression>) : `string` //since 4.12.0.16 [W/L/M]

`asConfidential`(<secret stringlist expression>) : `stringList` //since 4.12.4.15 [W/L/M]

`forceLogInAppendMode` = <boolean value> // (default=false); if true log will be send in append mode . //since 4.12.3.6

opsi-configs

`opsi-script.global.debug_prog` : boolean ; if false: only Warnings and Errors from program logging; default: false

`opsi-script.global.debug_lib` : boolean ; if false: only Warnings and Errors from library logging; default: false

`opsi-script.global.default_loglevel` : intstr ; set the default log level; default: '6'

`opsi-script.global.force_min_loglevel` : intstr ; set the minimal loglevel; default: '0'

`opsi-script.global.ScriptErrorMessage`s : boolean ; overwrites the opsi-script internal default; default: false

`opsi-script.global.AutoActivityDisplay` : boolean ; overwrites the opsi-script internal default; default: true

`opsi-script.global.SuppressSystemEncodingWarning` : boolean ; suppress some encoding warnings; default: false

`opsi-script.global.ReverseProductOrderByUninstall` : boolean ; product list is reordered for uninstall; default: false

`opsi-script.global.log_rotation_count` : boolean ; number of opsi-script.log backups; default: 8

`opsi-script.global.configs_writeProductLogFile` : boolean ; logs for every single opsi product; default: false

5.12. macOS specific functions [W/L/M]

`GetOS` : `string` // 'Linux' or 'Windows_NT' or 'macos' [W/L/M]

`getMacosVersionInfo` : `string` //macOS Version Information //since 4.12.1.0 [M]

`getMacosVersionMap` : `stringList` //macOS Version map //since 4.12.1.0 [M]

`GetSystemType` : `string` //OS Architecture ("64 Bit System" or "x86 System") [W/L/M]

`getOSArchitecture` // OS Architecture (x86_32 / x86_64/ arm_64) //since 4.12.4.17 [W/L/M]

`importlib "uib_macosinstalllib" :`

`install_macos_app`(\$myapp\$: `string`) : `string` [M]

`install_macos_pkg`(\$mypkg\$: `string`) : `string` [M]

`install_macos_dmg`(\$mydmg\$: `string`) : `string` [M]

`install_macos_zip`(\$myzip\$: `string`) : `string` [M]

`install_macos_generic`(\$myfile\$: `string`) : `string` [M]

5.13. Network related functions [W/L/M]

`GetHostsName` (<hostaddress>) : `string` [W/L/M]

`GetHostsAddr` (<hostname>) : `string` [W/L/M]

`GetMyIpByTarget(<target ip addr>)` : string` //since 4.11.3.2 /4.11.6 [W/L/M]

`GetIpByName(<ip addr / ip name>)` : string` //since 4.11.3.2 [W/L/M]

`IsValidIP4 (<ip4adr>)` : boolean //since 4.12.1

`IsValidIP4Network (<ip4adr>, <netmask>)` : boolean //since 4.12.1

`IsValidIP4Host (<ip4adr>, <netmask>)` : boolean //since 4.12.1

`getIP4NetworkByAdrAndMask (<ip4adr>, <netmask>)` : string //since 4.12.1

`getDefaultNetmaskByIP4adr (<ip4adr>)` : string //since 4.12.1

`parseUrl(<url string>)` : stringlist //since 4.12.1

`createUrl(<urlcomponents list>)` : string //since 4.12.1

`isPingReachable(<host>)` : boolean //since 4.12.3.6

`IsValidFQDN(<domain name>)` : boolean //since 4.12.4.4 [W/L/M]

`cidrToNetmask (<string>)` : string //since 4.12.4.37

`netmaskToCidr (<string>)` : string //since 4.12.4.37

`isCertInstalledInSystem(<label>)` : boolstring` [W/L/M] //since 4.12.4.37

`importCertToSystem(<filename>)` : noresult` [W/L/M] //since 4.12.4.37

`removeCertFromSystem(<label>)` : noresult` [W/L/M] //since 4.12.4.37

`ListCertificatesFromSystem(<label>)` : stringlist` [W/L/M] //since 4.12.4.37

5.14. Number related functions [W/L/M]

`isNumber(<str>)` : bool` //since 4.11.3: true if <str> represents an integer [W/L/M]

`CompareDotSeparatedNumbers(<str1>,<relation str>,<str2>)` : bool` //since 4.11.5.2: [W/L/M]

`CompareDotSeparatedNumbers(<string1>, <string2>)` : string` [W/L/M]

`calculate(<arithmetic string expression>)` : string (number)` // since 4.11.3.5 [W/L/M]
knows: +-*/()

`DecStrToHexStr (<decstring>, <hexlength>)` : string` [W/L/M]

`HexStrToDecStr (<hexstring>)` : string` [W/L/M]

`RandomIntStr(<number str>)` : string` [W/L/M]

5.15. Operating System related functions [W/L/M]

`GetOS` : string // 'Linux' or 'Windows_NT' or 'macos' [W/L/M]

`GetMsVersionInfo` : string //Windows Version Information [W]

`GetMsVersionName` //Windows *marketing* Version //since 4.12.4.35 [W]

`GetMSVersionMap` : `stringlist` [W]

`getLinuxDistroType` : `string` // 'debian' or 'redhat' or 'suse' (see `getLinuxVersionMap`) [L]

`getLinuxVersionMap` : `stringlist` //since 4.11.4 [L]

`getMacosVersionInfo` : `string` //macOS Version Information //since 4.12.1.0 [M]

`getMacosVersionMap` : `stringlist` //macOS Version map //since 4.12.1.0 [M]

`GetSystemType` : `string` //OS Architecture ("64 Bit System" or "x86 System") [W/L/M]

`getOSArchitecture` // OS Architecture (x86_32 / x86_64 / arm_64) //since 4.12.4.17 [W/L/M]

`getListFromWMI`(`<wmi namespace str>`,`<wmi class str>`,`<property list>`,`<condition str>`) : `stringlist` //since 4.12.1.0 [W]

`EnvVar` (`<environment variable>`) : `string` [W/L/M]

`getProfilesDirList` : `stringlist` //since 4.11.3.2 [W/L/M]

`listFiles` (`<Path>`, `<Searchmask>`, `<SearchSubDirectories>`, `<[Redirection]>`) : `stringlist` //since 4.12.3 [W/L/M]

```
Set $Filelist$ = listFiles("C:\windows\system32", "*.Devices.*.dll", "False", "64bit")
```

`which`(`<command in path>`) : `string` (command with path) //since 4.12.3.6 [W/L/M]

`runningAsAdmin` : `bool` //since 4.11.1.1 [W/L/M]

`runningOnUefi` : `bool` //since 4.11.4.3: true: if the running OS was booted in UEFI mode [W/L/M]

`runningInPE` : `bool` //since 4.12.0.13: true: if the running OS is a Windows PE [W]

`runningInWANMode` //since 4.12.4.16: true: if opsiserver = localhost [W/L/M]

`isDriveReady`(`<drive letter>`) : `bool` //since 4.11.4.4: true: if the drive can be accessed [W]

`runningWithGui` : `bool` //since 4.12.3.6: true: if the running OS with GUI (at Win+Mac always true)[M/L/W]

5.16. opsiservicecall and json Related functions [W/L/M]

`jsonIsValid`(`<jsonstr>`) : `boolean` //since 4.11.6: [W/L/M]

`jsonIsArray`(`<jsonstr>`) : `boolean` //since 4.11.6: [W/L/M]

`jsonIsObject`(`<jsonstr>`) : `boolean` //since 4.11.6: [W/L/M]

`jsonAsObjectHasKey`(`<jsonstr>`,`<keyst>`) : `boolean` //since 4.11.6: [W/L/M]

`jsonAsArrayCountElements`(`<jsonstr>`) : `intstr` //since 4.11.6: [W/L/M]

`jsonAsObjectCountElements`(`<jsonstr>`) : `intstr` //since 4.11.6: [W/L/M]

`jsonAsArrayGetElementByIndex`(`<jsonstr>`, `<indexstr>`) : `jsonstring` //since 4.11.6: [W/L/M]

`jsonAsObjectGetValueByKey(<jsonstr>, <keystr>)` : `valuestring`` //since 4.11.6: [W/L/M]

`jsonAsObjectSetValueByKey(<jsonstr>, <keystr>, <valuestring>)` : `jsonstring`` //since 4.11.6: [W/L/M]

`jsonAsObjectSetStringtypeValueByKey(<jsonstr>, <keystr>, <valuestring>)` : `jsonstring`` //since 4.11.6: [W/L/M]

`jsonAsObjectDeleteByKey(<jsonstr>, <keystr>)` : `jsonstring`` //since 4.11.6.4: [W/L/M]

`jsonAsArrayPutObjectByIndex(<jsonstr>, <indexstr>, <objectstr>)` : `jsonstring`` //since 4.11.6: [W/L/M]

`jsonAsArrayDeleteObjectByIndex(<jsonstr>, <indexstr>)` : `jsonstring`` //since 4.11.6.4: [W/L/M]

`jsonAsArrayToStringList(<jsonstr>)` : `stringlist`` //since 4.11.6: [W/L/M]

`jsonAsObjectGetKeyList(<jsonstr>)` : `stringlist`` //since 4.11.6: [W/L/M]

`jsonStringListToJsonArray(<strlist>)` : `jsonstr`` //since 4.11.6: [W/L/M]

`convert2Jsonstr(<string>)` ` //since 4.10.8.3

see also: OpsiServiceCall [Section 4.9, “OpsiServiceCall \[W/L/M\]”](#)

5.17. opsi related functions [W/L/M]

`getProductMap` : `stringlist` // since 4.11.2.4 [W/L/M]

keys are: id, name, description, advice, productversion, packageversion, priority, installationstate, lastactionrequest, lastactionresult, installedversion, installedpackage, installedmodificationtime, actionrequest

`getProductPropertyList(<propname>, <default value>)` : `stringlist`` //since 4.11.3 [W/L/M]

`GetProductProperty (<PropertyName>, <DefaultValue>)` : `string` [W/L/M]

`GetConfidentialProductProperty (<PropertyName>, <DefaultValue>)` : `string`` //since 4.11.5.2 [W/L/M]

`setActionProgress <string>` : `noresult` //since 4.11.3 [W/L/M]

`retrieveSection (<section name>)` : `stringlist`` [W/L/M]

`replaceOpsiConstants(<string list>)` : `stringlist`` //since 4.12.3.6 [W/L/M]

`replaceOpsiConstants(<string>)` : `string`` //since 4.12.3.6 [W/L/M]

`runningInWanMode` : `boolean` //since 4.12.4.17 [W/L/M]

5.18. Process and Script Related functions

`Killtask <process name>` ` : `noresult`` [W/L/M]

`ChangeDirectory <directory>` ` : `noresult`` //since 4.11.2.6 [W/L/M]

`GetProcessList` : `stringlist` //since 4.11.1.2; gives list of exename;pid;dom/user [W/L/M]

`processIsRunning(<process name>)` : `boolean`` //since 4.11.6.1 [W/L/M]

`isProcessChildOf(<searchprocstr>, <parentprocstr>)` : `bool` //since 4.12.4.35 [W/L/M]

shellCall (<command string>) : stringlist (output) //since 4.11.4.2 [W/L/M]

```
set $list$= shellCall('net start')
```

shellCall (<command string>) : noresult //since 4.11.6.1 [W/L/M]

shellCall (<command string>) : string (exitcode) //since 4.11.6.1 [W/L/M]

powershellcall (<commandstr> [,<access str>='sysnative' [,<policy bool str>='true']]) : stringlist (output) //since 4.12.0.16 [W]

powershellCall(<commandstr> [,<access str>='sysnative' [,<policy bool str>='true'][, <optionstr> = "]]) : stringlist (output) //since 4.12.4.28 [W]

powershellcall (<commandstr> [,<access str>='sysnative' [,<policy bool str>='true']]) : noresult //since 4.12.0.16 [W]

powershellCall(<commandstr> [,<access str>='sysnative' [,<policy bool str>='true'][, <optionstr> = "]]) : noresult //since 4.12.4.28 [W]

powershellcall (<commandstr> [,<access str>='sysnative' [,<policy bool str>='true']]) : string (exitcode) //since 4.12.0.16 [W]

powershellCall(<commandstr> [,<access str>='sysnative' [,<policy bool str>='true'][, <optionstr> = "]]) : string (exitcode) //since 4.12.4.28 [W]

getOutputStreamFromSection (<dos section name>) : stringlist (output) [W/L/M]

```
set $list$= getOutputStreamFromSection ('DosInAnIcon_try')
```

processCall(<string>) : string (exitcode) //since 4.11.6.1 [W/L/M]

getLastExitCode : string (exitcode) [W/L/M]

includeLog <file name> <tail size> : noresult //since 4.11.2.1 [W/L/M]

includeLog <file name> <tail size> [<encoding>] : noresult //since 4.11.4.1 [W/L/M]

waitForPackageLock(<seconds timeout string>,<bool should we kill>) : bool //since 4.11.6.1 [L]

which(<command in path>) : string (command with path) //since 4.12.3.6 [W/L/M]

executeSection(<string expr with section call>) //since 4.12.3.9 [W/L/M]

see also: ExecWith sections [Section 4.3, "ExecWith \[W/L/M\]"](#)

see also: ShellBatch sections [Section 4.2, "DosBatch and DosInAnIcon \(ShellBatch and ShellInAnIcon\) \[W/L/M\]"](#)

see also: Winbatch sections [Section 4.1, "Winbatch \[W/L/M\]"](#)

5.19. Regular expression related functions [W/L/M]:

isRegexMatch(<string>, <pattern>) : boolean //since 4.12.1

getSubListByContainingRegex(<pattern>, <target list>) : stringlist //since 4.12.1

getSubListByContainingRegex(<pattern list>, <target list>) : stringlist //since 4.12.1

getRegexMatchList(<pattern>, <target list>) : stringlist //since 4.12.1

getRegexMatchList(<pattern list>, <target list>) : stringlist //since 4.12.1

removeFromListByContainingRegex(<pattern>, <target list>) : stringlist //since 4.12.1

`removeFromListByContainingRegex(<pattern list>, <target list>) : stringlist` //since 4.12.1

`stringReplaceRegex(<string>, <pattern>, <replacement string>) : string` //since 4.12.1

`stringReplaceRegexInList(<target list>, <pattern>, <replacement string>) : stringlist` //since 4.12.1

5.20. Registry related functions [W]

`getRegistryValue(<keystr>, <varstr>) : string` //since 4.12.0.16 [W]
 <access str> = one of 32bit, 64bit, sysnative ; default sysnative

`GetRegistrystringValue("[key] var") : string`` [W]

`GetRegistryStringValue32 ("[key] var") : string`` //since 4.10.8 [W]

`GetRegistryStringValue64 ("[key] var") : string`` //since 4.10.8 [W]

`GetRegistryStringValueSysNative ("[key] var") : string`` //since 4.10.8 [W]

`getRegistryKeyList32(<regkey>) : stringlist`` //since 4.11.3 [W]

`getRegistryKeyList64(<regkey>) : stringlist`` //since 4.11.3 [W]

`getRegistryKeyListSysnative(<regkey>) : stringlist`` //since 4.11.3 [W]

`getRegistryVarList32(<regkey>) : stringlist`` //since 4.11.3 [W]

`getRegistryVarList64(<regkey>) : stringlist`` //since 4.11.3 [W]

`getRegistryVarListSysnative(<regkey>) : stringlist`` //since 4.11.3 [W]

`getRegistryVarMap32(<regkey>) : stringlist`` //since 4.11.3 [W]

`getRegistryVarMap64(<regkey>) : stringlist`` //since 4.11.3 [W]

`getRegistryVarMapSysnative(<regkey>) : stringlist`` //since 4.11.3 [W]

`RegKeyExists(<regkey>[,<access str>]) : bool` //since 4.12.0.16 [W]
 <access str> = one of 32bit, 64bit, sysnative ; default sysnative

`RegVarExists(<regkey>, <var str>) : bool` //since 4.12.0.16 [W]
 <access str> = one of 32bit, 64bit, sysnative ; default sysnative

see also: [Section 4.5, "Registry \[W\]"](#)

5.21. String handling functions [W/L/M]

`splitString (<string1>, <string2>) : stringlist`` [W/L/M]

```
set $list1$ = splitString ("\\server\share\dir","\")
```

`splitStringOnWhiteSpace (<string>) : stringlist`` [W/L/M]

`composeString (<string list>, <Link>) : string`` [W/L/M]

`takeString (<index>, <list>) : string`` [W/L/M]

`setStringInListAtIndex(<newstring>,<list>,<indexstr>`) : stringlist` //since 4.11.6 [W/L/M]`

`takeFirstStringContaining(<list>,<search string>`) : string` [W/L/M]`

`getIndexFromListByContaining(<list> : stringlist,<search string> : string)` : <number> : string //since 4.12.0.13 [W/L/M]`

`contains(<str>, <substr>`) : bool` //since 4.11.3: true if <substr> in <str> [W/L/M]`

`isNumber (<str>`) : bool` //since 4.11.3: true if <str> represents an integer [W/L/M]`

`trim(<string>`) : string` [W/L/M]`

`lower (<string>`) : string` [W/L/M]`

`upper (<string>`)` [W/L/M]`

`unquote (<string>,<quote-string>`) : string` //since 4.11.2.1 [W/L/M]`

`unquote2 (<string>,<quote-string>`) : string` //since 4.11.5.2 [W/L/M]`

`stringReplace (<string>, <oldPattern>, <newPattern>`) : string` //since 4.11.3 [W/L/M]`

`strLength (<string>`) : string (number)` //since 4.11.3 [W/L/M]`

`strPos (<string>, <sub string>`) : string (numner)` //since 4.11.3 [W/L/M]`

`strPart (<string>, <start pos>, <number of chars>`) : string` //since 4.11.3 [W/L/M]`

`getValue (<key string>, <hash string list>) : string [W/L/M]`

`getValueBySeparator (<key string>,<separator string>,<hash string list>) : string //since 4.11.2.1 [W/L/M]`

`getValueFromFile (<key string>, <file name>`) : string` //since 4.11.4.4 [W/L/M]`

`getValueFromFileBySeparator (<key string>,<separator string>,<file name>`) : string` //since 4.11.4.4 [W/L/M]`

`EscapeString: <sequence of characters> : string// [W/L/M]`

`stringReplaceRegex (<string>, <pattern>, <replacement string>`) : string //since 4.12.1 [W/L/M]`

`stringinput (< message str>,< boolstr confidential>`) : string` //since 4.12.1.2 [W/L/M]`

5.22. Stringlist handling functions [W/L/M]

`getListContaining (<list>,<search string>`) : stringlist` [W/L/M]`

`getListContainingList (<list1>,<list2>`) : stringlist` //since 4.11.3.7 [W/L/M]`

`getIndexFromListByContaining (<list> : stringlist,<search string> : string)` : <number> : string //since 4.12.0.13 [W/L/M]`

`count (<list>`) : string (number)` [W/L/M]`

`emptylist (<list>`) : stringlist` //since 4.11.3.7 [W/L/M]`

`for %<identifier>% in` <list> do <one statement | sub section> [W/L/M]`

```
for %% in $list1$ do sub_test_string
```

createStringList (<string0>, <string1>, ...) : stringlist [W/L/M]

```
set $list1$ = createStringList ('a','b')
```

reverse (<list>): stringlist` [W/L/M]

getSubList (<start index> : <end index>, <list>): stringlist` [W/L/M]

getSubListByMatch (<search string>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

getSubListByMatch (<search list>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

getSubListByContaining (<search string>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

getSubListByContaining (<search list>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

getSubListByKey (<search string>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

getSubListByKey (<search list>, <target list>): stringlist` //since 4.12.0.14 [W/L/M]

getKeyList (<list>): stringlist` //since 4.12.0.14 [W/L/M]

addtoList(<list>,<string>): stringlist` //since 4.10.8 [W/L/M]

addListToList(<dest list>,<src list>): stringlist` //since 4.10.8 [W/L/M]

reencodestrList(<list>, <from>, <to>): stringlist` //since 4.11.4.2 [W/L/M]

removeFromListByContaining(<search string>`,` <target list>): stringlist` //since 4.11.5.1 [W/L/M]

removeFromListByContaining(<search list>`,` <target list>): stringlist` //since 4.11.5.1 [W/L/M]

removeFromListByMatch(<searchstring>`,`<target list>): stringlist` //since 4.11.6 [W/L/M]

takeString (<index>, <list>): string` [W/L/M]

takeFirstStringContaining(<list>,<search string>): string` [W/L/M]

setStringInListAtIndex(<newstring>,<list>,<indexstr>): stringlist` //since 4.11.6 [W/L/M]

jsonToArrayToStringList(<jsonstr>): stringlist` //since 4.11.6: [W/L/M]

jsonStringListToJsonArray(<strlist>): jsonstr` //since 4.11.6: [W/L/M]

jsonAsObjectGetKeyList(<jsonstr>): stringlist` //since 4.11.6: [W/L/M]

splitString(<string1>, <string2>): stringlist [W/L/M]

```
set $list1$ = splitString ("\\server\share\dir","\")
```

splitStringOnWhiteSpace (<string>): stringlist` [W/L/M]

composeString(<string list>, <Link>): string` [W/L/M]

`getValue(<key string>, <hash string list>) : string` [W/L/M]

`getValueBySeparator(<key string>,<separator string>,<hash string list>) : string` //since 4.11.2.1 [W/L/M]

`setValueByKey(<key>, <value>, <targetlist>) : stringlist` [W/L/M]

`getSubListByContainingRegex(<pattern>, <target list>) : stringlist` //since 4.12.1

`getSubListByContainingRegex(<pattern list>, <target list>) : stringlist` //since 4.12.1

`getRegexMatchList(<pattern>, <target list>) : stringlist` //since 4.12.1

`getRegexMatchList(<pattern list>, <target list>) : stringlist` //since 4.12.1

`removeFromListByContainingRegex(<pattern>, <target list>) : stringlist` //since 4.12.1

`removeFromListByContainingRegex(<pattern list>, <target list>) : stringlist` //since 4.12.1

`stringReplaceRegexInList(<target list>, <pattern>, <replacement string>) : stringlist` //since 4.12.1

`editmap(< strlist>`) : stringlist`` //since 4.12.1.2 [W/L/M]

`areListsEqual(< strlist1>, <strlist2>, <flag>`) : boolean``

`GetSectionFromInifile(<ini-file>`) : stringlist`` [W/L/M]

5.23. Time / Date related functions [W/L/M]

`sleepSeconds <Integer> or <string> : noresult` [W/L/M]

breaks the program execution for <string> seconds. <string> has to represent an Integer Value

`markTime : noresult` [W/L/M]

sets a time stamp for the current system time and logs it.

`getDiffTimeSec : string` (Time in seconds since last marktime) //since 4.11.3 [W/L/M]

`timeStampAsFloatStr : string` (Floating Number - format: 'days.decimal days') //since 4.11.6 [W/L/M]

5.24. Usercontext / loginscripts related functions [W]:

`GetUserSID(<Windows Username>`) : string``

`GetLoggedInUser : string` //since 4.11.1.2

`GetUsercontext : string` //since 4.11.1.2

`GetScriptMode : string` possible values 'Machine','Login' //since 4.11.2.1

`saveVersionToProfile : noresult` - save productversion-packageversion to local profile //since 4.11.2.1

`readVersionFromProfile : string` - read productversion-packageversion from local profile //since 4.11.2.1

`scriptWasExecutedBefore : boolean` - is true if saved and running productversion-packageversion are identical //since 4.11.2.1

5.25. XML related functions (XML2) [W/L/M]:

`getXml2DocumentFromFile(<path to xml file>)` : xml2stringlist` //since 4.12.1

`getXml2Document(<stringlist wit xml>)` : xml2stringlist` //since 4.12.1

`xml2GetFirstChildNodeByName(<xml2stringlist>, <node name str>)` : xml2stringlist` //since 4.12.1.

`getXml2UniqueChildnodeByName(<xml2stringlist>, <node name str>)` : xml2stringlist` //since 4.12.1.

`getXml2AttributeValueByKey(<xml2stringlist>, <attr name str>)` : string` //since 4.12.1.

`getXml2Text(<xml2stringlist>)` : string` //since 4.12.1.

see also : [Section 4.11, “XML2 Sections \[W/L/M\]”](#)