



opsi-winst reference card (4.11.2)



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Chapter 1

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Chapter 2

Global text constants

2.1 System directories

2.1.1 System directories:

`%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%`: *c:\Documents and Settings*

2.2 Common (AllUsers) directories:

`%AllUsersProfileDir%` or `%CommonProfileDir%`: *c:\Documents and Settings\All Users*
`%CommonStartMenuPath%` or `%CommonStartmenuDir%`: *c:\Documents and Settings\All Users\Startmenu*
`%CommonAppdataDir%`: *c:\Documents and Settings\All Users\Application Data*
`%CommonDesktopDir%`
`%CommonStartupDir%`
`%CommonProgramsDir%`

2.3 Default User directories:

`%DefaultUserProfileDir%` //since 4.11.1.1

2.4 Current user directories

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

`%AppdataDir%` or `%CurrentAppdataDir%` : `c:\Documents and Settings\%USERNAME%\Application Data` //since 4.10.8.13

`%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 /AllNtUserProfiles directory constants:

`%UserProfileDir%` : `c:\Documents and Settings\%USERNAME%`
or

`%CurrentProfileDir%` // since 4.11.2.1

2.6 wlnst-Path and Directories

`%ScriptPath%` or `%ScriptDir%`

`%ScriptDrive%`

`%WinstDir%`

`%WinstVersion%` //4.10.8.3

`%Logfile%`

2.7 Network informations

`%Host%` : value of environment variable HOST.

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

`%Username%` : Name of actual user.

2.8 Service Data

`%HostID%` : FQDN of the client

`%opiserviceURL%`

`%opsiServer%`

`%opiserviceUser%`

`%opiservicePassword%`

`%installingProdName%`: productid //since 4.10.8

`%installingProdVersion%`: product version //since 4.10.8

`%installingProduct%` : productid (deprecated)

Chapter 3

In Primary Sections

3.1 Kinds of Primary Sections

```
[Initial]
[Actions]
[sub<identifier>]
sub <file name>
[ProfileActions]
```

3.2 Winst control

```
LogLevel (deprecated)
SetLogLevel = <number> or SetLogLevel = <string>
```

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

```
ExitOnError = <boolean value>
Message <string> or Message = <const string>
ShowMessageFile <string>
ShowBitMap [<file name>] [<sub titel>]
comment <string> or comment = <const string>
LogError <string> or LogError = <const string>
LogWarning <string> or LogWarning = <const string>
Pause <string> or Pause = <const string>
Stop <string> or stop = <const string>
```

3.3 Variables

3.3.1 Strings

```
DefVar <variable name>
Set <variable name> = <value>
```

3.3.2 Stringlists

DefstringList <variable name>

3.4 Functions

3.4.1 String functions

3.4.1.1 Important

GetMsVersionInfo //Windows Version Information

GetSystemType //OS Architecture (32/64)

GetRegistrystringvalue ("[key] var")

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

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

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

GetValueFromInifile (file, section, key, default value)

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

GetProductProperty (<PropertyName>, <DefaultValue>)

trim(<string>)

lower(<string>)

unquote(<string>, <quote-string>) //since 4.11.2.1

getValue(<key string>, <hash string list>)

getValueBySeparator(<key string>, <separator string>, <hash string list>) //since 4.11.2.1

getLastExitCode

3.4.1.2 Special: License Management

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

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

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

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

3.4.1.3 Special: Usercontext / loginscripts

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

3.4.1.4 Other

GetHostsName (<hostaddress>)
 GetHostsAddr (<hostname>)
 ExtractFilePath (<path>)
 DecStrToHexStr (<decstring>, <hexlength>)
 HexStrToDecStr (<hexstring>)
 base64EncodeStr(<string>)
 base64DecodeStr(<string>)
 convert2Jsonstr(<string>) //since 4.10.8.3
 RandomStr
 CompareDotSeparatedStrings(<string1>, <string2>)
 CompareDotSeparatedNumbers(<string1>, <string2>)
 EnvVar (<environment variable>)
 ParamStr

3.4.1.5 Deprecated

GetOS
 GetNtVersion
 IniVar (<key>) : (deprecated; use GetProductProperty)
 SubstringBefore (<string1>, <string2>)

3.4.2 String list functions

3.4.2.1 Important

splitString (<string1>, <string2>)

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

splitStringOnWhiteSpace (<string>)

loadTextFile (<file name>)

loadUnicodeTextFile (<file name>)

composeString (<string list>, <Link>)

takeString (<index>, <list>)

takeFirstStringContaining(<list>,<search string>)

getOutputStreamFromSection (<dos section name>)

```
getOutputStreamFromSection ('DosBatch_try')
```

getReturnListFromSection (<xml section name>)

getListContaining(<list>,<search string>)

count (<list>)

for %<identifier>% in <list> do <one statement | sub section>

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

GetProcessList //since 4.11.1.2; gives list of exename;pid;dom/user

3.4.2.2 Infomaps

GetLocaleInfoMap

GetMSVersionMap

getFileInfoMap(<file name>)

getProductMap // since 4.11.2.1

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

3.4.2.3 Other

createStringList (<string0>, <string1> ,...)

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

reverse (<list>)

getSectionNames(<ini-file>)

retrieveSection (<section name>)

getSubList (<start index>, <end index>, <list>)

addtoList(<list>,<string>) //since 4.10.8

addListToList(<dest list>,<src list>) //since 4.10.8

3.4.3 Boolean operators and functions

<string1> = <string2>

<bool1> AND <bool2>

<bool1> OR <bool2>

NOT(<bool3>)

FileExists (<file name>)

FileExists32 (<file name>)

FileExists64 (<file name>)

FileExistsSysNative (<file name>)

LineExistsIn (<string>, <file name>)

LineBeginning_ExistsIn (<string>, <file name>)

XMLAddNamespace(<XMLfilename>, <XMLelementname>, <XMLnamespace>)

XMLRemoveNamespace(<XMLfilename>, <XMLelementname>, <XMLnamespace>)

HasMinimumSpace (<drive letter>, <capacity>)

Example:

```
if not (HasMinimumSpace ("%SYSTEMDRIVE%", "500 MB"))
  LogError "Neede Space of 500 MB not available on %SYSTEMDRIVE%"
  isFatalError
endif
```

opsiLicenseManagementEnabled

runningAsAdmin //since 4.11.1.1

isLoginScript //since 4.11.2.1

3.4.4 Misc functions

Killtask <process name>

requiredWinstVersion <relation operator> <version>

```
requiredWinstVersion >= "4.10"
```

includelog <file name> <tail size> //since 4.11.2.1

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

3.4.5 Flow control

if - else - endif

Syntax:

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

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
```

isFatalError

ExitWindows /Reboot

ExitWindows /ImmediateReboot

ExitWindows /ImmediateLogout

ExitWindows /ShutdownWanted

ExitWindows /RebootWanted (deprecated, acts like /Reboot)

sleepSeconds <Integer>

Chapter 4

Secondary Sections

4.1 Winbatch

Function: execute programs via Windows API

[WinBatch<identifier>]

Modifier:

/LetThemGo

/WaitForProcessEnding "<program.exe>"

/TimeOutSeconds <seconds>

/WaitForWindowAppearing <window title> (*does not work with 64 Bit programs*)

/WaitForWindowVanish <window title> (*does not work with 64 Bit programs*)

4.2 DosBatch and DosInAnIcon

Function: Execute section via cmd.exe

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

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

Modifier: //since 4.11.1.1

/32Bit

/64Bit

/SysNative

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

```
DosInAnIcon_do_64bit_stuff winst /64Bit
```

Commands: see manual

4.3 ExecWith

Function: Execute section via any interpreter

[ExecWith<identifier>] <path to interpreter>

Commands: see manual

4.4 Files

Function: File Operations

[Files<identifier>]

Modifier:

/AllNTUserProfiles

/AllNTUserSendTo

/32Bit //since 4.10.8

/64Bit //since 4.10.8

/SysNative //since 4.10.8

Commands:

checkTargetPath = <destination directory>

copy [Options] <source file(s)> <destination directory>

some options:

-s rekursiv

-V version control against targetdir

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

-c continue without reboot even if it is needed

-d date check

-u update

-x extract

-w weak (do not overwrite protected files)

-n no overwrite

-r copy read only attribute

delete [Options] <path[/mask]

some options: -s rekursiv -f force

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

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

del [Options] <path[/mask]] //since 4.11.2.1

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
```

4.5 Registry

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_BINARY:00 01 02 OF 10
set "var6" = 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

Function: edit Ini-files

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

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

Function: edit text files

[PatchTextFile<identifier>] <file name>

Commands:

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

preference types are usually:

pref, user_pref, lock_pref

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

4.8 LinkFolder

Function: Startmenue + Desktop Icons

[LinkFolder<identifier>]

Commands:

set_basefolder <system folder>

set_subfolder <folder path>

```
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]
end_link
```

`delete_element` <link name>

`delete_subfolder` <folder path>

The predefined virtual system folders which can be used are:

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

Example

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

4.9 OpsiServiceCall

Function: opsi-Service access

[`OpsiServiceCall`<identifier>]

Commands: see manual

4.10 IdapiConfig

Function: BDE configuration deprecated and not supported anymore

4.11 PatchHosts

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>

4.12 XMLPatch

Function: edit XML files

[`XMLPatch`<identifier>]

Commands: see manual

4.13 ExecPython

Function: Execute section via python interpreter

[ExecPython<identifier>]

Commands: see manual

4.14 LdapSearch

Function: read from LDAP

[LdapSearch<identifier>]

Commands: see manual