



LiveSystem pro PE Builder

User Manual (v.10)

Version 1.0.4.6 and higher
© www.kare-net.de 2011-2015

Created: July 21, 2015

Table of Contents

TABLE OF CONTENTS	2
1. FIRST STEPS	4
1.1. PURPOSE OF WINDOWSPE	4
1.2. BUILDING WINDOWSPE	4
1.3. SUPPORTED HOST COMPUTER SYSTEMS	4
1.4. SUPPORTED PE SYSTEMS	4
2. SYNTAX OF COMMANDS	5
2.1. SYSTEM	5
Convert	5
Echo	5
Exit	5
Halt	6
Math	6
Message	6
Pack	7
Return	7
Run	7
Set	8
Setmacro	8
SetMvar	8
SYSTEM	9
Wait	11
Wim Commands	11
Update	12
2.2. PROGRAMMABLE CONDITIONS (IF CONDITIONS)	12
If,...,Then	12
If,...,Then,...,Else-Block	13
2.3. CONDITIONS FOR DIRECTORIES, FILES AND INTERFACES	14
2.3.1. Directories	14
DirCopy	14
DirRemove	14
DirMove	15
DirMake	15
2.3.2. Files	15
2.3.2.1. Conditions for Files	15
FileCopy	15
FileDelete	15
FileRename	16
FileCreateBlank	16
FileRead	16
FileSetAttrib	17
CopyFile	17
CopyOrExpand	17
Expand	18
ReqFile	18
Require_File	19
Retrieve	19
Search File	19
SetReqFile	20
ShellExecute	20

Start	20
2.3.2.2. Word Processing	21
TXTAddLine	21
TXTReplace	21
StrFormat	21
2.3.2.3. INI Processing	22
IniWrite	22
IniWriteSection	22
IniDeleteSection	22
IniRead	23
IniReadPos	23
IniRenameSection	23
2.3.3. Interface Processing	24
Interface,Get	24
Interface,Set	24
Interface,State	24
Interface,Update	25
2.4. REGISTRY PROCESSING	25
Loadhive	25
UnLoadhive	26
RegRead	26
RegWrite	26
RegDelete	27
2.5. STRING PROCESSING	28
String LEFT/RIGHT	28
String TLeft/TRight	28
String TIME	28
String FIND	29
String LEN	29
String MID	29
String REPLACE	29
String SPLIT	30
2.6. NETWORK COMMANDS	30
WebGet	30
2.7. LOOP COMMANDS	31
2.7.1. For / Next - loop	31
2.7.2. ExitLoop	32
2.8. VARIABLES (INTERN)	32
2.9. VARIABLES (PROJECT)	33
2.10. SPECIAL CHARACTERS	35
2.11. SHORTCUTS	35
2.12. MACROS	36
3. SCRIPT CONTROL	37
3.1. STANDARD SECTIONS OF SCRIPTS	37
3.1.1. Section [Main]	37
3.1.2. Section [Interface]	38
3.1.3. Section [Process]	39
3.2. ACTIVE SCRIPT CONTROL	39
3.2.1. Choosing Windows Source	39
3.2.2. Script-Select	39

Comment:

Optional commands are written as

[Command] resp. *[<Command>]*

1. First Steps

1.1. Purpose of WindowsPE

Windows PE (Windows PreinstallationEnvironment) is excellent suitable for following range of applications:

- ⇒ Repairing Computers
- ⇒ Performing Data Recovery
- ⇒ Preparing a reinstallation of Operating System
- ⇒ Removing a virus
- ⇒ Rebuilding private data (documents and pictures)
- ⇒ Restoration of images files

[Back to Table of Contents](#)

1.2. Building WindowsPE

Video manual in forum **LiveSystem-pro.de**:

<http://www.livesystem-pro.de/showthread.php?92-Videoanleitung-1-quot-LiveSystem-pro-quot-PE-Builder>

[Back to Table of Contents](#)

1.3. Supported Host Computer Systems

At moment following systems will be supported:

- | | | |
|---|-----------------|-----------------------------------|
| ⇒ | Windows XP/2003 | ServicePack 3 (32/64-bit) |
| ⇒ | Windows Vista | with all ServicePacks (32/64-bit) |
| ⇒ | Windows 7 | with all ServicePacks (32/64-bit) |
| ⇒ | Windows 8/8.1 | (32/64-bit w/o ServicePack) |

[Back to Table of Contents](#)

1.4. Supported PE Systems

LiveSystempro is available with 3 projects:

- | | | |
|---|-------------|---|
| ⇒ | WinXPE | Windows XP, Windows 2003 |
| ⇒ | Multi7PE_SE | Windows Vista (32/64-bit)*, Windows 2008 (32/64-bit)*, Windows 7 (32/64-bit)*, Windows 2010 (32/64-bit)* |
| ⇒ | Win8PE | Windows 8 (32/64-bit), Windows 8.1 (32/64-bit), Windows 2010 R2 (32/64-bit), Windows 8.1 Update 1 (32/64-bit) |
- * = all ServicePacks**

All of them are integrated in LiveSystempro and selectable separately.

[Back to Table of Contents](#)

2. Syntax of Commands

2.1. System

Convert

Converts decimal and hexadecimal values

Syntax:

Convert,<%Variable%>,<Method>,<Value>

Method:	-	<i>Hex2Dec</i>	converts a hexadecimal value into a decimal one
		<i>Dec2Hex</i>	converts a decimal value into a hexadecimal one
		<i>Dec2chr</i>	converts a decimal value into Ascii code (Unicode will be supported)

Examples:

Convert,%Var%,Hex2Dec,401a
Allocates to variable *%Var%* the value **16410** .

Convert,%Var%,Dec2Hex,16410
Allocates to variable *%Var%* the value **401a** .

Convert,%Var%,Dec2chr,65
Allocates to variable *%Var%* the value **A** .

[Back to Table of Contents](#)

Echo

Shows an information

Syntax:

Echo,<Text>

Example:

Echo,Running script

[Back to Table of Contents](#)

Exit

Quits the running script

Syntax:

Exit

Example:

If,%Arch%,x64,Then,Exit

[Back to Table of Contents](#)

Halt

Stops accomplishment of build

Syntax:

Halt,[<Text>]

Text - any text (optionally)

Example:

Halt,Aborted by user

[Back to Table of Contents](#)

Math

Performs a mathematic counting

Syntax:

Math,<%Variable%>,<Value>,[<PARAMETER>]

%Variable% - any name
Value - mathematic counting
Parameter (optional) - Round_Up / Round_Down

Examples:

*Math,%NewVar%,45+(7*4)*

Allocates to variable *%NewVar%* the value of **73** (sum of 45 + 28)

Math,%NewVar%,16.9-10,Round_Down

Allocates to variable *%NewVar%* the value of **6** in round terms

[Back to Table of Contents](#)

Message

Shows a message box

Syntax:

Message,<Text>,[<Title>],[<Timeout>]

Text - Text in message box
Title - Title of message box
Information shows symbol Information
Confirmation shows symbol Question mark
Error shows symbol Error
Question shows a button YES/NO
Warning shows symbol Warning
Timeout - Display duration of box in seconds

Examples:

Message,Hallo World,Information,10

Message,Continue?,Question

If,%Exitcode%,=,Yes,Then,Message,Button YES has been pressed

If,%Exitcode%,=,No,Then,Message,Button NO has been pressed

[Back to Table of Contents](#)

Pack

Compresses or decompresses a file

Syntax:

Pack,<Packcommand>,<Filter>

Packcommand	-	Compress	for files with extension ,.zip' only
		Decompress	for files with extension ,.zip' and ,7z'
Filter	-	available for Packcommand DECOMPRESS only. Using the char * the filter changes to partial search (similar to a Wildcard function)	

Examples:

pack,compress,C:\Test,C:\Test.zip
Compresses the folder *Test* to ZIP file *Test.zip*.

pack,decompress,C:\RegConfig.7z,C:\MyFolder,Win8x86 productoptions.reg
Decompresses from 7z file *RegConfig.7z* file *Win8x86* and *productoptions.reg*.

pack,decompress,C:\Test.7z,C:\Test,.pdf*
Decompresses from 7z-file *Test.7z* all files with extension *pdf*.

[Back to Table of Contents](#)

Return

Quits the called section of a script

Syntax:

Return

Example:

Run,%ScriptFile%,MySection
Message,%Arch%

[MySection]
If,%Arch%,x64,Then,Return
Message,Fitting architecture

The message box **Fitting architecture** is available with Architecture x86 only.

[Back to Table of Contents](#)

Run

Performs a section in the specified script

Syntax:

Run,<%ScriptFile%>,<Section>,<PARAMETER>

%ScriptFile%	-	a.	Full path of script
		b.	Calling a section in the running script typing %ScriptFile% is enough
Section	-	Section to perform in script	
PARAMETER	-	9 Parameters to commit (#1 up to #9)	

Example:

Run,%ScriptFile%,MySection,Hallo

[MySection]
Message,#1,Information

In this example a message box will appear with text *Hallo*.

[Back to Table of Contents](#)

Set

Allocates a value to a Variable

Syntax:

Set,<%Variable%>,<Value>,[PERMANENT]

<i>Value</i>	-	any value or path
<i>PERMANENT</i>	-	valid for the whole build, stored in <i>project.cfg</i> in section [variables]

Examples:

Set,%NewVar%,myPE

Allocates to variable *%NewVar%* the value *myPE* .

Set,%NewVar%,myPE,PERMANENT

Allocates to variable *%NewVar%* the value *myPE* , valid for the whole build.

[Back to Table of Contents](#)

Setmacro

Creates a macro

Syntax:

Setmacro,<Macroname>,<Command>,[PERMANENT]

<i>Macroname</i>	-	any name without %%
<i>Command</i>	-	any valid build command
<i>PERMANENT</i>	-	valid for the whole build, stored in <i>project.cfg</i> in section [Macros]

Example:

Setmacro,require_file,Run,%ProjectDir%\Macro.srt,Process-ReqSys32,#1,PERMANENT

Creates the macro *require_file* with command

Run,%ProjectDir%\Macro.srt,Process-ReqSys32,#1,PERMANENT

[Back to Table of Contents](#)

SetMvar

Creates a macrovariable

Syntax:

SetMvar,<%Variable%>,<Value>

Example:

SetMvar,%MyVariable%,myPE

Creates a macrovariable with value *myPE*.

The macrovariable is valid in running script only!

[Back to Table of Contents](#)

SYSTEM

Command for System settings

Syntax:

System,<Systemcommand>,<Systemparameter>,[<Section>]

Systemcommand:	Error	Enables / Disables error messages
	FreeRam	Shows free RAM
	TotalRam	Shows total RAM
	GetEnv	reads Environment Variables
	Temp	
	ProgramFiles	
	Number_Of_Processors	
	GetFreeDrive	Shows the next free available Drive Letter
	GetFreeSpace	Shows the available free Space
	GetDriveType	Shows medium's type
	Log	Enables / deactivates writing of LOG file
	ProcessMode	Launches the GUI in Process mode
	SetPEinit	Calls a free number from <i>Peinit.ini</i>

Systemcommand (x64 systems only):

FileRedirect	Turns FileRedirection (Wow64) for 64-bit systems on or off
RegRedirect	Turns RegRedirection (Wow64) for 64-bit systems on or off

Systemparameter:	concerning Error	On Off
	concerning FileRedirect	On Off
	concerning FreeRam	%Variable%
	concerning TotalRam	%Variable%
	concerning GetFreeDrive	%Variable%
	concerning GetFreeSpace	%Variable%
	concerning GetDriveType	Return value
		1 - no Root
		2 - portable Device
		3 - Harddisk
		5 - CDROM
	concerning SetPEinit	%Variable%,<Section>
	concerning Log	On Off
	Log,On,1	Enables writing of LOG file and deletes an existing LOG file
	concerning RegRedirect	64 Off

Section: concerning *GETFREEPEInitNo*

Examples:

System,FILEREDIRECT,On
System,FILEREDIRECT,Off
System,REGREDIRECT,64
System,REGREDIRECT,Off
System,GETFREEDRIVE,%FreeLetter%
Allocates to variable *%FreeLetter%* the next available free drive letter.
System,GETFREESPACE,%Drive%,%Size%

Example:

Set,%Txt%,
For,%Var%,65,90
Convert,%Drive%,Dec2chr,%Var%
System,GetFreeSpace,%Drive%:\,%Size%
If,%Size%,>,0,Then,Set,%Txt%,%Txt% %Drive% - %Size%#\$x
Next
String,%Txt%,TRight,%Txt%,2

Allocates to ariable *%Txt%* all partitions with current free space.

Notation:

65 and **90** are the ASCII values of letters **A** and **Z**.

System,GETDRIVETYPE,%Drive%,%Type%

Example:

```

Set,%Txt%,
For,%Var%,65,90
    Convert,%Drive%,Dec2chr,%Var%
    System,GetDriveType,%Drive%:\,%Type%
    If,%Type%,3,Then
        System,GetFreeSpace,%Drive%:\,%Size%
        If,%Size%,>,0,Then,Set,%Txt%,%Txt% %Drive% - %Size% MB#$x
    End
Next
String,%Txt%,TRight,%Txt%,2

```

Allocates to variable **%Txt%** the free space of the chosen type.

```
System,GetEnv,%Var%,ProgramFiles
```

Allocates to variable **%Var%** the full path of **%ProgramFiles%**.

```
System,GetEnv,%Var%,Temp
```

Allocates to variable **%Var%** the full path of folder **%Temp%**.

(e.g.: C:\Users\<Username>\AppData\Local\Temp

```
System,GetEnv,%Var%,Number_Of_Processors
```

Allocates to variable **%Var%** the number of processors

```
System,SetPEInit,<ID>,<Section>,<Command>
```

Looks for an available free number in **PEInit.ini** and writes the entry and the command.

- ID Entry ID (chars or digits)

Valid in script only

- Section either **Init** or **Startup**

Syntax example:

```
System,SetPEInit,A,Init,RunWait|%PE_programs%\%Programfolder%\ProgramEXE% %Param%
```

Definite example:

```
System,SetPEInit,A,Init,RunWait|%PE_programs%\DrvImp\DrvImpe.exe -d -i:"%UFD%\Drivers\%Archit%"
```

Writes in **PEInit.ini** e.g. these entries:

```
[Init]
```

```
20=RunWait|X:\Programme\Drvimp\DrvImpe.exe -d -i:"%UFD%\Drivers\%Archit%"
```

```
[Init-ID]
```

```
20=A,Apps\my - Driver Import PE\Drvimpe.srt
```

The file **Peinit.ini** defines which commands will be executed starting **PE**.

The range of commands reaches from **001** up to **049**, whereas **001** up to **015** are reserved for the respective project.

Examples (WinXPE):

```
[Init]
```

```
003=Ramdisk|25|%\imdisk.exe -a -t vm -m B: -s %Rsize%M -p "/fs:NTFS /q /y /v:Imdisk"
```

```
004=CMD|md "B:\Documents and Settings\Default User\Local Settings\Temp"
```

```
006=DllInstall|shell32.dll
```

```
007=DllInstall|browseui.dll
```

```
008=DllInstall|shdocvw.dll
```

```
039=BROADCAST
```

```
016=RunWait|reg.exe add HKLM\SYSTEM\CurrentControlSet\Services\usbhub /v ImagePath /t REG_EXPAND_SZ
```

```
/d system32\DRIVERS\usbhub.sys /f
```

The numbers don't have to be arranged continuously, but existing numbers will be overwritten by identical numbers.

Command list peinit.exe:

CMD runs a DOS command

Example:

```
CMD|md %$q%\RamDrive%\%doc_and_sett%\Default User\%local_sett%\Temp#$q
```

DllInstall installs a DLL file

Example:

```
DllInstall|shell32.dll
```

Register registers a DLL file

Example:

```
Register|shell32.dll
```

Ramdisk creates a RamDisk

Example:

```
Ramdisk|%pTextBox1%\%pScrollBar1%\imdisk.exe -a -t vm -m %RamDrive% -s %Rsize%M -p#$q/fs:%Format% /q /y /v:%pTextBox2%#$q
```

Value of **%pScrollBar1%**: % or **MB**

DrvLetter changes the drive letter

Example:

```
DrvLetter|%CDDrive%\J386%\ImageFile%
```

Run runs a program
Example:
`Run|imdisk.exe -a -t vm -m %RamDrive% -s %Rsize%M -p # $q/fs:%Format% /q /y /v:%pTextBox2%#$q`

Runwait runs a program and waits for its end
Example:
`Runwait|imdisk.exe -a -t vm -m %RamDrive% -s %Rsize%M -p # $q/fs:%Format% /q /y /v:%pTextBox2%#$q`

BROADCAST refreshes the environment variables
Example:
`BROADCAST`

SetRes changes the screen resolution
Example:
`SetRes|1024|768`

StartService starts a service
Example:
`StartService|Ext2fs|lfsDrives`

RegWrite multiple specifications are possible (separated by |)
 writes a Registry value
Example:
`RegWrite|HKLM|0x1|SYSTEM\ControlSet001|key|ka#$-dre ;'$-d = "|"`
 For special chars you have to use the keyword **\$-d = "|"**

Location of Peinit.ini:

Multi7PE_SE:	X:\Windows\System32
WinXPE:	X:\I386\SYSTEM32
Win8PE:	X:\Windows\System32

[Back to Table of Contents](#)

Wait

Pauses the script by the specified milliseconds

Syntax:

Wait,<Milliseconds>

Example:

`Wait,1000`

(1 second = 1000 milliseconds)

[Back to Table of Contents](#)

Wim Commands

Commands processing Image files

Syntax:

Wim,<Command>

Available commands:

Wim,create	
Wim,info	<,Path to Image>
Wim,infoEdition	<,Path to Image>
Wim,Extract,File	<,Path to Image>
Wim,Extract,Image	<,Path to Image>
Wim,Extract,FileList	<,Path to Image>
Wim,Extract,Image	<,Path to Image>

Path to Image:

Win8PE:	-	Usage of var %Installwim% (compare section 2.9)
Multi7PE_SE:	-	Usage of %SourceDir%\sources\xyz.wim

Examples:

Wim,Create,Izms,%TargetDir%,%Target_CD%\sources\Boot.wim
Compresses Boot.wim using compression method *Izms*.

Wim,info,%SourceDir%\sources\install.wim,%WIM_Index%,%ProjectDir\project.cfg
Reads the *WIM Index* from install.wim and writes it in *project.cfg*.

Wim,infoEdition,,%SourceDir%\sources\install.wim,pScrollBar1,%ProjectDir%\Build\0-PreConfig.srt
Writes the Source Edition in file *0-PreConfig.srt*.

Wim,Extract,File,%SourceDir%\sources\install.wim,%WIM_Index%,#1,%InstallSRC%
Extracts the file with parameter *#1* to *%InstallSRC%*.

Wim,Extract,Image,%SourceDir%\sources\install.wim,%WIM_Index%,#1,%InstallSRC%
Extracts the content of a determined WIM Index from Install.wim to *%InstallSRC%*.

Wim,Extract,FileList,%SourceDir%\Sources\Install.wim,%WIM_Index%,%ProjectTemp%\Instwim.txt,%Basedir%\Wim\%OS%%SourceEdition%%arch%%SP%%Distlang%-I%WIM_Index%
Extracts to the target directory files based on the content of *Instwim.txt*.

Wim,Extract,Image,f:\boot.wim,f:\test5\
Extracts boot.wim to directory *test5*.

[zurück zum Inhaltsverzeichnis](#)

Update

Refreshes the variable data memory

Syntax:

Update,<Parameter>,[ScriptDir]

Parameter:	<i>ProjectVar</i>	all variables from <i>project.cfg</i> , section <i>[variables]</i> will be loaded into the variable data memory
	<i>InterfaceVar</i>	variables from section <i>[Interface]</i> of any script will be loaded into the variable data memory
	<i>Project</i>	all scripts will be loaded again
	<i>Project,ScriptDir</i>	script directory will be loaded again

Examples:

Update,ProjectVar
Update,InterfaceVar
Update,Project
Update,Project,Apps\%pTextBox111%.srt

[Back to Table of Contents](#)

2.2. Programmable Conditions (If Conditions)

If,...,Then

Syntax:

If,<Condition>,Then,<Command>

Negative Syntax:

If,Not,<Condition>,Then,<Command>

Available Conditions:

ExeRunning
ExistFile
ExistDir
ExistSection

ExistRegKey
 ExistWebFile
 SrtChecked
 = (equal)
 < (smaller)
 > (bigger)

Examples:

If,%Var%, =,1, Then,Message,Value is equal 1

This message will be shown only if value of %Var% is equal 1.

If,3,>,2, Then,Message,3 is bigger than 2

This message will be shown always as 3 is bigger than 2.

If,ExistFile,%ScriptDir%\test.exe, Then,Message,File does exist

This message will be shown only if test.exe does exist.

If,ExistDir,C:\Programs, Then,Message,Directory does exist

This message will be shown only if directory C:\Programs does exist.

If,Not,ExistDir,C:\Intel, Then,Message,Directory does not exist

This message will be shown if directory C:\Intel does NOT exist.

If,ExistRegKey,HKLM,PE-SYSTEM\ControlSet001\Services\i8042prt\Parameters,EnableWheelDetection, Then,Message,Value exists

This message will be shown if value EnableWheelDetection does exist in mentioned key.

If,ExistSection,%target_win%\TXTSETUP.SIF,SourceDiskFiles, Then,Message,Section does exist

This message will be shown if section SourceDiskFiles does exist in file TXTSETUP.SIF .

If,ExistRegKey,HKLM,PE-SYSTEM\ControlSet001\Services\i8042prt\Parameters, Then,Message,Key exists

This message will be shown if the complete RegKey does exist.

If,EXISTREGKEY,HKLM,PE-SYSTEM\ControlSet001\Services\i8042prt\Parameters,, Then,Message,exists

This message will be shown if value (Default) does exist in mentioned key.

If,SrtChecked,Build\8-HW-pnp.srt, Then,Message,Script is enabled

This condition proves if the script has been enabled.

If,ExistWebFile,http://www.xyz.com/xyz.zip, Then,Message,File is available

This message will be shown only if xyz.zip is available.

If,ExeRunning,vmware.exe, Then,Message,VMware is already running

This message will be shown only if VMware is already running.

Tip to multiline notation:

This notation is also possible:

If,%Var%, =,1, Then

Message,Value is 1

End

Using this notation the command **END** is ALWAYS necessary !

[Back to Table of Contents](#)

If,...,Then,...,Else-Block

All above mentioned conditions can also be used as **EITHER – OR Block**

Syntax:

If,<Condition>, Then

<Command_#1>

Else

<Command_#2>

End

Examples:

```
If,ExistDir,C:\Intel,Then
    Message,Directory does exist
Else
    Message,Directory does not exist
End
```

This condition shows **either** the first **or** the second message depending on the result.

```
If,%Var%,=,1,Then
    Message,Value is equal 1
Else
    Message,Value is not equal 1
End
```

Same result as written above.

Combination with **NOT** is also possible.

Example:

```
If,Not,%Var%,=,1,Then
    Message,Value is unequal 1
Else
    Message,Value is equal 1
End
```

[Back to Table of Contents](#)

2.3. Conditions for Directories, Files and Interfaces

2.3.1. Directories

DirCopy

Copies the content of a folder into another folder

Syntax:

DirCopy,<SourceFolder>,<TargetFolder>

Example:

```
DirCopy,C:\MyFolderC:\MyOtherFolder
```

Copies the content of *C:\MyFolder* to *C:\MyOtherFolder*.
If the targetfolder does not exist it will be created.

[Back to Table of Contents](#)

DirRemove

Deletes a directory

Syntax:

DirRemove,<FolderToDelete>,[recursive]

Recursive:	<i>1</i>	deletes folders and subfolders
	<i>0</i>	default value, deletes only the subfolders

Examples:

```
DirRemove,C:\MyFolder,1
```

Deletes the folder *C:\MyFolder* and all subfolders.

```
DirRemove,C:\MyFolder\MySubfolder,0
```

Deletes only the subfolder *MySubfolder*.

Possible syntax if no subfolder does exist:
DirRemove,C:\MyFolder,0

[Back to Table of Contents](#)

DirMove

Moves a directory

Syntax:

DirMove,<FolderToMove>,<TargetFolder>

Example:

DirMove,C:\MyFolder,C:\MyOtherFolder

Moves the **content** of *C:\MyFolder* to *C:\MyOtherFolder*.
The origin folder will be deleted.

[Back to Table of Contents](#)

DirMake

Creates a folder

Syntax:

DirMake,<NewFolder>

Example:

DirMake,C:\MyFolder

Creates the new folder *C:\MyFolder*.

[Back to Table of Contents](#)

2.3.2. Files

2.3.2.1. Conditions for Files

FileCopy

Copies a single source file to a specified destination

Syntax:

FileCopy,<SourceFile>,<TargetFolder>

Example:

FileCopy,C:\MyFolder\MyFile.txt,C:\MyOtherFolder

Copies the file *MyFile.txt* from *C:\MyFolder* to *C:\MyOtherFolder*.
Wildcards (*.*) are supported.

[Back to Table of Contents](#)

FileDelete

Deletes a single file

Syntax:

FileDelete,<File>

Example:

FileDelete,C:\MyFolder\MyFile.txt
 Deletes the specified file.

[Back to Table of Contents](#)

FileRename

Renames an existing file

Syntax:

FileRename,<OldFilename>,<NewFilename>

Example:

FileRename,C:\MyFolder\MyFile.txt,C:\MyFolder\MyNewFile.txt
 Renames the file *MyFile.txt* to *MyNewFile.txt*

[Back to Table of Contents](#)

FileCreateBlank

Creates an empty file (an existing same-titled file will be deleted)

Syntax:

FileCreateBlank,<NewFile>,[<CharacterSet>]

CharacterSet	(optional)	-	ANSI
			Unicode
			UTF-8

Examples:

FileCreateBlank,C:\MyFolder\test.txt
 Creates in the specified folder the empty file *test.txt*

FileCreateBlank,C:\MyFolder\test.txt,utf8
 Creates in the specified folder the empty file *test.txt* with charset *UTF-8*

[Back to Table of Contents](#)

FileRead

Reads the whole content of a file into a variable

Syntax:

FileRead,<%Variable%,<File>,[Counter]

Counter: - optional parameter (number of chars to read)

Examples:

FileRead,%Var%,C:\MyFolder\test.txt
 Reads the whole content of *test.txt* into variable *%Var%*.

FileRead,%Var%,C:\MyFolder\test.txt,20
 Reads 20 chars of the content of *test.txt* into variable *%Var%*.

Possible action when cursor is placed undesired at the begin of a blank line:

(%Var%=C:\MyFolder\test.txt)
String,%Result%,RIGHT,%Var%,2
If,%Result%,=#\$%,Then,String,%Var%,TRIGHT,%Var%,2
 Sets the cursor **next** to the last existing char.

[Back to Table of Contents](#)

FileSetAttrib

Changes attributes of a file

Syntax:

FileSetAttrib,<File>,<Attribute>,[<Parameter>]

Available Attributes:	<i>R</i>	ReadOnly
	<i>A</i>	Archive
	<i>S</i>	System
	<i>H</i>	Hidden
	<i>N</i>	Normal
	<i>O</i>	Offline
	<i>T</i>	Temporary

Parameter:	<i>1</i>	Recursive
------------	----------	-----------

Using Wildcards (*) is possible.

Attributes will be changed by using **+** or **-**

Examples:

FileSetAttrib,C:\MyFolder\test.exe,+RS

FileSetAttrib,C:\MyFolder.doc,+RS*

FileSetAttrib,C:\MyFolder.doc,-H*

FileSetAttrib,C:\MyFolder\,+H

Changes the attribute of a single folder.

FileSetAttrib,C:\MyFolder\,+H,1

Changes the attribute of a folder with all included subfolders.

[Back to Table of Contents](#)

CopyFile

Copies a file from Sourcefolder to Targetfolder.

This command is suitable for projects **Multi7PE_SE** and **Win8PE**.

Note:

The command **SetReqFile** has to be used previously to define directories and parameters

Syntax:

CopyFile,<File>,[Mode]

Modus	0	-	ohne .mui-Datei
	1	-	mit .mui-Datei + Fallback en-US (en-US-Ersatzfunktion)

Example:

SetReqFile,%boot_sys%,%DistLang%,%target_sys%

CopyFile,drivers\acpi.sys,1

CopyFile,atmlib.dll

Copies the file *drivers\acpi.sys* to *%target_sys%*.

Copies the file *drivers\acpi.sys.mui* to *%target_sys%\%DistLang%*.

Copies the file *atmlib.dll* to *%target_sys%*.

[Back to Table of Contents](#)

CopyOrExpand

Copies a file and expands it if necessary

Syntax:

CopyOrExpand,<File>,<TargetfolderOrTargetname>

Example:

CopyOrExpand,C:\MyFolder\MyFile.txt,C:\MyFolder\MyNewFile.txt

In this example *CopyOrExpand* will first try to **copy** *C:\MyFolder\MyFile.txt*.

If the file can't be found then *CopyOrExpand* will try to **expand**

C:\MyFolder\MyFile.tx_.

[Back to Table of Contents](#)

Expand

Extracts all files inside a CAB file

Syntax:

Expand,<CAB_File>,<TargetFolder>,[<Filter>]

Filter

Expands a single file or multiple files, separated using char :

The Targetfolder has to exist and will **NOT** be created automatically.

Examples:

Expand,C:\MyFolder\MyFile.cab,C:\MyNewFolder

Extracts all files inside *MyFile.cab* to *C:\MyNewFolder*.

Expand,%source_sys%\%SPCabFile%,%target_sys%\drivers,aec.sys:agp440.sys

Extracts in Project WinXPE from CAB file (e.g.: *SP3.cab*) the files

aec.sys and *agp440.sys* to *%target_sys%\drivers*.

Expand,%source_sys%\%SPCabFile%,%target_sys%

Extracts in Project WinXPE from CAB file (e.g.: *SP3.cab*) the file

bthci.dll to *%target_sys%*.

[Back to Table of Contents](#)

ReqFile

Verifies if the file already exists in target. If not so the file will be copied from Sourcefolder to Targetfolder. This command is suitable for projects **Multi7PE_SE** and **Win8PE**.

Note:

The command **SetReqFile** has to be used previously to define directories and parameters

Syntax:

ReqFile,<File>,[Mode]

Mode

0

-

no .mui file

1

-

with .mui file + Fallback en-US

Example:

SetReqFile,%Install_sys%,%DistLang%,%target_sys%

ReqFile,accessibilitycpl.dll,1

ReqFile,control.exe

Copies the file *accessibilitycpl.dll* to *%target_sys%*.

Copies the file *accessibilitycpl.dll.mui* to *%target_sys%\%DistLang%*

Copies the file *control.exe* to *%target_sys%*.

[Back to Table of Contents](#)

Require_File

Verifies if the file already exists in target. If not so the file will be copied from Sourcefolder to Targetfolder. This command is used in project **WinXPE**.

Syntax:

Require_File,<File>

Example:

Require_File,shell32.dll

Copies the file *shell32.dll* to *%target_sys%*.

[Back to Table of Contents](#)

Retrieve

Query of special file informations

Syntax:

Retrieve,<%Variable%,<Parameter>,<FolderOrFile>,[Param2],[Param3]

Parameter	-	DirSize	
		FileSize	
		FileVersion	
		MD5	
		ResStr	(Resources string)
		FileArch	(for EXE files only)
ResStr only:		Param2	optional [shows LCID (locale identifiers)]
		Param3	optional [shows resource number]

Examples:

Retrieve,%Var%,DirSize,C:\MyFolder

Allocates to variable *%Var%* the size of *MyFolder* .

Retrieve,%Var%,FileArch,C:\Windows\explorer.exe

Allocates to variable *%Var%* the architecture of *explorer.exe* .

ONLY EXE files are supported.

Retrieve,%Var%,MD5,C:\boot.ini

Allocates to variable *%Var%* the MD5 sum of file *boot.ini* .

Retrieve,%Var%,ResStr,C:\Windows\system32\shell32.dll, 00000409,21771

Allocates to variable *%Var%* the value *Documents and Settings* .

[Back to Table of Contents](#)

Search File

Searches for a file. Wildcards are supported

Syntax:

Search,<%Variable%>,<Parameter>,<Directory>,<Filename>

Parameter	-	File	searches in chosen directory for files with same file extension
		FileRec	recursive search for maximum 2000 files

Beispiel:

[Interface.07]

pScrollBar3=,1,0,0,20,270,215,20

```

...
[Script-Select]
search,%Var%,File,%ISODir%,*.iso
Interface,set,pScrollBar3,%Var%
Searches for an existing chosen file in %ISODir% and updates the element
pScrollBar3 e.g. with following line:
[Interface.07]
pScrollBar3=Win7[SP0]_de-DE_x86.iso,1,0,0,20,270,215,20,Win7[SP0]_de-DE_x86.iso

```

[Back to Table of Contents](#)

SetReqFile

Defines the directories and parameters for commands **Copyfile** and **Reqfile**

Syntax:

SetReqFile,<SourceFolder>,%DistLang%,<TargetFolder>

SourceFolder	-	any folder
%DistLang%	-	Directory in System32 with localized language file (MUI)
TargetFolder	-	any folder

Example:

SetReqFile,%boot_sys%,%DistLang%,%target_sys%
 Defines **%boot_sys%** as source folder and **%target_sys%** as target folder.

(See also the explanations of commands **Copyfile** and **Reqfile**)

[Back to Table of Contents](#)

ShellExecute

Starts a program or a file

Syntax:

ShellExecute,<Action>,<File>,[Parameter],[WorkingDir]

Action	-	Show/Open Hide	Process will be shown Process will be hidden
Parameter	-	optional set of switches	
WorkingDir	-	optional	

Examples:

ShellExecute,Show,C:\Windows\system32\cmd.exe
 This command opens a console window.

Note:

The command **ShellExecute** in a script effects the script to wait for the end of the launched file / program. Afterwards the remaining lines in script will be executed.

[Back to Table of Contents](#)

Start

Starts a program without waiting

Syntax:

Start,<File>,[Parameter],[WorkingDir]

Example:

Start,%Windowsdir%\Notepad.exe,%ScriptFile%,%WindowsDir%
 This command opens the running script with program *Notepad*.

[Back to Table of Contents](#)

2.3.2.2. Word Processing

TXtAddLine

Adds a line inside a file

Syntax:

TXtAddLine,<File>,<Text>,<Parameter>

Parameter	-	<i>Top</i>	adds line as first line
		<i>Bottom</i>	adds line as last line
		<i>Line number</i>	(first line = 0)

Example:

TXtAddLine,C:\MyFile.txt,My new Line,Top
 Adds to *MyFile.txt* the line *My new Line* as first line.
 If the file does not exist it will be created.

[Back to Table of Contents](#)

TXtReplace

Renames an existing text

Syntax:

TXtReplace,<File>,<OldText>,<NewText>

Example:

TXtReplace,C:\MyFile.txt,My old Line,My new Line
 Replaces in *MyFile.txt* the line *My old Line* by *My new Line*.
 If the file does not exist an empty file will be created.

[Back to Table of Contents](#)

StrFormat

Returns some parts of a path name

Syntax:

StrFormat,<%Variable%>,<Parameter>,<File>

Parameter	-	<i>FILENAME</i>	File name
		<i>PATH</i>	File path
		<i>EXT</i>	File extension
		<i>SHORTPATH</i>	Path in format DOS 8.3

Examples:

StrFormat,%Var%,FILENAME,C:\boot.ini
 Allocates to variable *%Var%* the value *boot.ini* .

StrFormat,%Var%,PATH,C:\boot.ini
 Allocates to variable *%Var%* the value *C:* .

StrFormat,%Var%,EXT,C:\boot.ini
Allocates to variable **%Var%** the value *ini* .

StrFormat,%Var%,SHORTPATH,C:\MyNewFile.txt
Allocates to variable **%Var%** the value *C:\MYNEWF~1.TXT* as far as the file does exist.

[Back to Table of Contents](#)

2.3.2.3. INI Processing

IniWrite

Writes a value in a section of an INI file

Syntax:

IniWrite,<File>,<Section>,<Key>,<Value>

Example:

IniWrite,C:\LiveSystempro\LiveSyspro.ini,Main,Project,Multi7PE_SE
Creates in file *LiveSyspro.ini* in section *[Main]* the entry *Project=Multi7PE_SE*

[Back to Table of Contents](#)

IniWriteSection

Creates a new section in an INI file with optional text settings.
Entries will be written one below the other.

Syntax:

IniWriteSection,<File>,<Section>,[Text]

Examples:

IniWriteSection,C:\LiveSystempro\LiveSyspro.ini,NewSection,

Creates in file *LiveSyspro.ini* the section *[NewSection]*.

The final comma is an optional comma, thus this notation is also possible:

IniWriteSection,C:\LiveSystempro\LiveSyspro.ini,NewSection

IniWriteSection,C:\LiveSystempro\LiveSyspro.ini,NewSection,MyKey

Creates in file *LiveSyspro.ini* the section *[NewSection]* with entry *MyKey*.

If the INI file does not exist it will be created.

[Back to Table of Contents](#)

IniDeleteSection

Deletes an existing section inside an INI file

Syntax:

IniDeleteSection,<File>,<Section>

Example:

IniDeleteSection,C:\LiveSystempro\LiveSyspro.ini,NewSection
Deletes in file *LiveSyspro.ini* the section *NewSection*.

[Back to Table of Contents](#)

IniRead

Reads the value of a key from a section inside an INI file

Syntax:

IniRead,<%Variable%>,<File>,<Section>,<Key>

Example:

IniRead,%Var%,C:\LiveSystempro\LiveSyspro.ini,Main,Project
Allocates to variable **%Var%** the **value** of **Project** .

[Back to Table of Contents](#)

IniReadPos

Reads either the value of a key or the key of a value

Syntax:

IniReadPos,<%Variable%>,<File>,<Section>,<Parameter>,<Position>

Parameter	<i>Count</i>	reads the number of defined entries in an INI file	
	<i>KeyPos</i>	reads the Key in a defined line	(Result=Value)
	<i>Value</i>	reads the Value	(Result=Key)
	<i>ValuePos</i>	reads the Value in a defined line	(Result=Key)

Position line number (*ValuePos* and *KeyPos* only)

Examples:

IniReadPos,%Var%,C:\MyFile.ini,MySection,Value,1
Allocates to variable **%Var%** the **Key** whose value is **1** .

IniReadPos,%Var%,C:\MyFile.ini,MySection,ValuePos,2
Allocates to variable **%Var%** the **Key** from line **2** .

IniReadPos,%Var%,C:\MyFile.ini,MySection,KeyPos,2
Allocates to variable **%Var%** the **Value** of key from line **2** .

INI file **C:\Lang.ini** with following content:

[Section]
Key_1=german
Key_2=English
Any text
Key_3=french

IniReadPos,%Var%,C:\Lang.ini,Section,count
Allocates to variable **%Var%** the **value 3** (number of defined INI lines)

[Back to Table of Contents](#)

IniRenameSection

Renames an existing section inside an INI file

Syntax:

IniRenameSection,<File>,<OldSection>,<NewSection>

Example:

IniRenameSection,C:\MyFile.ini,Section_1,Section_2
Renames **Section_1** to **Section_2**.

[Back to Table of Contents](#)

2.3.3. Interface Processing

Interface,Get

Reads the value of an Interface element

Syntax:

Interface,Get,<Element>,<%Variable%>

Supported Element Types	-	pTextBox pScrollBar pCheckBox pFileBox pTextLabel
--------------------------------	---	---

The element types can also be defined as variables

Example:

```
[Interface]
pCheckbox1=True,Checkbox,0,<Any_Section>,50,80,120,18
...
[Process]
Interface,Get,pCheckBox1,%Var%
Allocates to variable %Var% the value True .
```

[Back to Table of Contents](#)

Interface,Set

Sets the value of an Interface element

Syntax:

Interface,Set,<Element>,<Value>

Supported Element Types	-	pTextBox pScrollBar pCheckBox pFileBox pTextLabel
--------------------------------	---	---

The element types can also be defined as variables

Examples:

```
[Interface]
pCheckbox1=True,Checkbox,0,<Any_Section>,50,80,120,18
...
[Process]
Interface,Set,pCheckBox1,False
Allocates to pCheckBox1 the value False .

Set,%RowCount%,10
Set,%Value%,Test
Interface,Set,pTextlabel%RowCount%,%Value%
Allocates to pTextlabel10 the text Test .
```

[Back to Table of Contents](#)

Interface,State

Changes the attribut of an Interface element

Interface, State, <Element>, <Parameter>

The element types can also be defined as variables

Example:

Hides the element **pScrollBox1** inside the Interface

Interface, Update

Syntax:

Example:

Updates the element `pScrollBox2` in `Interface.07` with value `Test`.

2.4. Registry Processing

Loadhive

Syntax:

Hivepath - Path to Hive file

Examples (Multi7PE_SE + Win8PE):

up to Win8
beginning with Win8.1

Seite 25 von 40

```
Loadhive,%target_sys%\setupreg.hiv,PE-SYSTEM
Loadhive,%target_sys%\CONFIG\SOFTWARE,PE-SOFTWARE
Loadhive,%target_sys%\CONFIG\DEFAULT,PE-USER
```

Note:

By default HKLM\COMPONENTS will not be shown in the PE Registry.
To view this hive the following procedure is necessary:

1. Open the Registry Editor of running PE
2. Click on the hive HKEY_LOCAL_MACHINE
3. In menu "File" choose **Load Hive**
4. Choose path **X:\Windows\System32\config\components** and click on OPEN
5. In the appearing window LOAD HIVE enter **COMPONENTS**
6. HKLM\COMPONENTS is now available

[Back to Table of Contents](#)

UnLoadhive

Unloads the external Registry Hive

Syntax:

UnLoadhive,<RegistryRoot>

Example:

UnLoadhive,PE-SYSTEM

[Back to Table of Contents](#)

RegRead

Reads a Registry Key

Syntax:

RegRead,<%Variable%>,<HKEY>,<Key>,<Value>

Example:

RegRead,%Var%,HKLM,SOFTWARE\7-zip,Path

Allocates to variable **%Var%** the value of **Path** (=C:\Program Files\7-zip)

Using REG_MULTI_SZ (0x7) delimiter will be interpreted as **#\$x** (Carriage Return)

[Back to Table of Contents](#)

RegWrite

Creates or changes a Registry Key

Syntax:

RegWrite,<HKEY>,<Type>,<Key>,[ValueName],[Value]

Type	-	0x0		empty key with entry (<i>Standard</i>)
		0x1	REG_SZ	writes a text
		0x2	REG_EXPAND	expanded variable in writing style %%
		0x3	REG_BINARY	writes a binary value
		0x4	REG_DWORD	writes a numeric value
		0x7	REG_MULTI_SZ	writes multiple strings separated by #\$x

Key - Name of the key

Valuename - optional name of the value

Value - optional value

Extended notation of Variables

```
Set,%var%,01,a2,03
RegWrite,HKLM,0x3,PE-SOFTWARE\Software,Test,%var%

Set,%var%,01,02,03
RegWrite,HKLM,0x3,PE-SOFTWARE\Software,Test,%var%,04,aa,05
```

Extended notation of REG_MULTI_SZ (0x7):
used delimiter is #*\$x*

```
Set,%Var%,10#$x20
RegWrite,HKLM,0x7,SOFTWARE\MyKey,Key0x7,%Var%,30,40

32-bit system:
Writes in REGKey SOFTWARE\MyKey the character string Key0x7 with following values
10 20 30 40

64-bit system:
Writes in REGKey SOFTWARE\Wow6432Node\MyKey the character string Key0x7
with following values 10 20 30 40
```

Empty Multistring entries will get skipped

Examples:

```
RegWrite,HKLM,0x4,PE-SYSTEM\ControlSet001\Services\MpsSvc,Start,3
Writes into the PE Registry in HKLM\SYSTEM\ControlSet001\Services\MpsSvc the valuenam
Start with a numeric value 3.
```

```
RegWrite,HKLM,0x0,PE-USER\Software\Microsoft\Windows\CurrentVersion\MyRegKey
Writes into the PE Registry in HKCU\Software\Microsoft\Windows\CurrentVersion the new
key MyRegKey with string (Standard) and the type REG_SZ as well as in array Data
the value (Value not set).
```

```
Set,%var%,01,a2,03
RegWrite,HKLM,0x3,PE-SOFTWARE\Software,Test,%var%
Writes into the PE Registry in HKLM\Software the valuenam Test with a binary value
01,a2,03.
```

```
Set,%var%,01,02,03
RegWrite,HKLM,0x3,PE-SOFTWARE\Software,Test,%var%,04,aa,05
Writes into the PE Registry in HKLM\Software the valuenam Test with a binary value
01,02,03,04,aa,05.
```

Advice to Type 0x4:

Decimal notation is possible as well as hexadecimal notation

[Back to Table of Contents](#)

RegDelete

Deletes a Registry Key

Syntax:

```
RegDelete,<HKEY>,<Section>,[ValueName]
```

Examples:

```
RegDelete,HKLM,PE-SYSTEM\ControlSet001\Control\ComputerName\ComputerName,ComputerName
Deletes in the mentioned Registry Key the valuenam ComputerName.
```

```
RegDelete,HKLM,PE-SYSTEM\Test
Deletes in the mentioned Registry Key the valuenam (Standard).
```

2.5. String Processing

String LEFT/RIGHT

Checks the specified number of characters in strings

Syntax:

String, <%Variable%>, <Action>, <String>, <Counter>

Action	-	<i>Left</i> <i>Right</i>	Number of characters in a string, beginning from the left Number of characters in a string, beginning from the right
---------------	---	-----------------------------	---

Counter	-	Number of characters
----------------	---	----------------------

Examples:

Set, %String%, Sommerurlaub
String, %var%, Left, %String%, 6
Allocates to variable *%var%* the value *Sommer* .

Set, %String%, Sommerurlaub
String, %var%, Right, %String%, 6
Allocates to variable *%var%* the value *urlaub* .

String TLeft/TRight

Trims any characters of a string

Syntax:

String, <%Variable%>, <Action>, <String>, <Counter>

Action	-	<i>TLeft</i> <i>TRight</i>	Trims characters of a string, beginning from the left Trims characters of a string, beginning from the right
---------------	---	-------------------------------	---

Examples:

Set, %String%, Hallo
String, %Var%, TLeft, %String%, 1
Allocates to variable *%Var%* the value *allo* .

Set, %String%, Hallo
String, %Var%, TRight, %String%, 1
Allocates to variable *%Var%* the value *Hall* .

String TIME

Checks the current system time

Syntax:

String, <%Variable%>, TIME, <Parameter>

Parameter	-	<i>Hour</i> <i>Minute</i> <i>Second</i>
------------------	---	---

Example:

String,%Var%,TIME,Hour

Allocates to variable %Var% the value of the current hour (in 24 digit format).

[Back to Table of Contents](#)

String FIND

Shows the first position of a substring in a specified string

Syntax:

String,<%Variable%>,FIND,<String>,<SubString>

Example:

Set,%String_1%,Sommerurlaub

Set,%String_2%,url

String,%Var%,FIND,%String_1%,%String_2%

Allocates to variable %Var% the position (7) of correlation of char u .

Note:

If there is no correlation the position has always a value of 0

[Back to Table of Contents](#)

String LEN

Determines the length of a string

Syntax:

String,<%Variable%>,LEN,<String>

Example:

String,%Var%,LEN,Teststring

Allocates to Variable %Var% the length (10) of string Teststring .

[Back to Table of Contents](#)

String MID

Trims any part of a string

Syntax:

String,<%Variable%>,MID,<String>,<Position>,<Counter>

Example:

Set,%String%,Sommerurlaub

String,%Var%,MID,%String%,2,4

Allocates to variable %Var% the value omme .

[Back to Table of Contents](#)

String REPLACE

Replaces a part of a string by another part

Syntax:

String,<%Variable%>,REPLACE,<Searchstring>,<Replacestring>,[Parameter]

Parameter	-	0	(default)	Disbandment of variables
		1		Disbandment of variables up to level 1 (1 st variable in variable)

Example:

```
Set,%String%,The quick brown fox jumps over the lazy dog
Set,%Searchstring%,brown
Set,%Replacestring%,black
String,%Var%,REPLACE,%String%,%Searchstring%,%Replacestring%
Allocates to variable %Var% the new string
The quick black fox jumps over the lazy dog
```

[Back to Table of Contents](#)

String SPLIT

Splits a string

Syntax:

String,<%Result%>,SPLIT,<%Variable%>,<Delimiter>,<Parameter>

Parameter = 0	-	Number of items of %Variable%
Parameter > 0	-	Returns the substring of %Variable% of indicated Index

Example:

```
RegRead,%Var%,HKLM,SYSTEM\CurrentControlSet\Services\NetBIOS\Linkage,Bind
String,%Count%,SPLIT,%Var%,#$,0
For,%x%,1,%Count%
String,%Res%,SPLIT,%Var%,#$,%x%
Message,%Res%=%x%
Next
Allocates to Variable %Var% the content of character string Bind in above mentioned REGKey,
while Variable %Count% contents the number of found arrays.
In the following For/Next Loop the content of Variable %Var% will be split on the basis of the
particular parameters and allocated in each loop to Variable %Res%.
```

[Back to Table of Contents](#)

2.6. Network Commands

WebGet

Loads a file from the internet

Syntax:

WebGet,<FileInInternet>,<PathToStore>,[Parameter]

Parameter	-	1	shows a progress bar
		2	loads a file of unknown size

Examples:

Download without progress bar (http://)

```
WebGet, http://irfanview.tuwien.ac.at/iview433.zip,C:\iview433.zip
Loads the file iview433.zip from http://irfanview.tuwien.ac.at and stores it in C:\
```

Download without progress bar (ftp://)

```
WebGet,ftp://ftp.cpubid.com/cpu-z/cpu-z_1.61-32bits-en.zip,C:\cpu-z_1.61-32bits-en.zip
```

Loads the file `cpu-z_1.61-32bits-en.zip` from `ftp.cpubid.com` and stores it in `C:\`

Download with progress bar

`Webget,ftp://wa651f4:anonymous@mh-nexus.de/HxDSetupDE.zip,C:\HxDSetupDE.zip,1`

Loads the file `HxDSetupDE.zip` and shows a progress bar

Download a file of unknown size and progress bar

`Webget,http://googledrive.com.../Firefox_36.0.4.zip,C:\Firefox.zip,3`

Loads the file of unknown size `Firefox_36.0.4.zip` and shows a progress bar

WebGet has available a return variable **%Exitcode%**:

0	-	Ok
1	-	Error

Example:

`System,Error,Off`

`WebGet,http://www.a43filemanager.com/download/a43.zip,c:\a43.zip,1`

`Message,Download: %Exitcode%`

`System,Error,on`

Note:

Using the WebGet Parameter **3** (addition from 1 and 2) **%Exitcode%** is not necessary.

Usage of FTP Downloads with Password:

Example:

`WebGet,ftp://wa651f4:anonymous@mh-nexus.de/HxDSetupDE.zip,C:\HxDSetupDE.zip,1`

[Back to Table of Contents](#)

2.7. Loop commands

2.7.1. For / Next - loop

Runs a command repeatedly

Syntax:

For,<%Variable%>,<Start>,<End>
<Command>

Next

Start

Initial value

End

Final value

Example:

`For,%Var%,1,5`

`Message,Loop: %Var%`

`Next`

This loop will be executed five times whereas the values of **%Var%** are changing each time, showing the following messages:

Loop: 1
Loop: 2
Loop: 3
Loop: 4
Loop: 5

[Back to Table of Contents](#)

2.7.2. ExitLoop

Quits a For/Next Loop

Syntax:

ExitLoop

Example for recursive loop:

```
If,a,=,a,then
  For,%x%,1,6
    if,a,=,a,then
      Run,%ScriptFile%,Load-D,mouclass.sys
      if,%x%,=,4,then,ExitLoop
    Else
      Message,Message window without window title
    End
    Message,Loop: %x%
  Next
Else
  Message,Test 1
End
Message,End of Loop
```

```
[Load-D]
Message,sub %x%,#1
```

In this example a message window appears **with** window title **mouclass.sys** and the message **sub1**, afterwards a message window appears **without** window title and the message **Loop: 1**, afterwards a message window appears **with** window title **mouclass.sys** and the message **sub2**. This process repeats itself until a message window **with** window title **sub4**, afterwards a message window appears **without** window title and the message **End of Loop**

[Back to Table of Contents](#)

2.8. Variables (intern)

These variables will be set by the Builder on StartUp

%BaseDir%	-	Root directory	(e.g.: C:\LiveSystempro)
%CPUVM%	-	checks if the processor is capable for Virtualization Technology (VT-x)	
		0:	not capable
		1:	capable
%Day%	-	current day	
%ExitCode%	-	Exit code	
%HostAdmin%	-	User's administrator rights	
		0:	No administrator right
		1:	Administrator right
%HostArch%	-	Architecture of Host	(x86, x64)
%HostLang%	-	Locale ID (hexadecimal)	(07, 09, ...)
%HostNT%	-	NT version of Host	(5.1, 5.2, 6.0, ...)
%HostOS%	-	Operating system of Host	(WinXP, Win2003, WinVista, Win7, Win8)
%ISODir%	-	Path to ISO directory	(e.g.: %BaseDir%\Iso)
%ISOFile%	-	Path to ISO file	(e.g.: %BaseDir%\Iso\winpe3.iso)
%ISOFilename%	-	Name of ISO file	
%Month%	-	current month	
%ProcessError%	-	0:	No error
		3:	Halt
		4:	Error
			(will be set in %Projectini%, [ONBUILDEXIT] only)
%ProcessMode%	-	Process mode	
		0:	Button „Start“
		1:	Button „>“

	2:	Interface Element [Section]
%ProgramFilesDir%	-	Program directory (e.g.: C:\Program Files)
%Programs64%	-	64-bit program directory
%ProjectDir%	-	Path to Project directory (%BaseDir%\Projects\<Project>)
%ProjectFolder%	-	Directory name of project (Multi7PE_SE, Win8PE, WinXPE)
%Projectini%	-	Project file (%BaseDir%\Projects\<Project>\project.cfg)
%ProjectName%	-	Project name (Multi7PE_SE, Win8PE, WinXPE)
%ScriptDir%	-	Folder with current scriptfile
%ScriptFile%	-	current scriptfile
%ScriptLv%	-	Script level
%SourceDir%	-	Source directory on installation media
%TargetDir%	-	Target directory (e.g.: %BaseDir%\Target\Multi7PE_SE)
%TempDir%	-	Path to User's Temp directory (e.g.: C:\Users\<Username>\AppData\Local\Temp)
%UserName%	-	Username
%UserProfile%	-	Path to Home directory (e.g.: C:\Users\<Username>)
%WindowsDir%	-	Path to Windows directory (e.g.: C:\Windows)
%WinUAC%	-	User Account Control (from Windows Vista onwards)
		Value 0/1
%YEAR%	-	current year

[back to Table of Contents](#)

2.9. Variables (Project)

Multi7PE_SE and Win8PE:

%BootSRC%	-	Boot source (decompressed file boot.wim) e.g.: %BaseDir%\Wim\Win7SP0de-DE-B\2
%boot_sys%	-	System32 directory of %BootSRC% e.g.: %BaseDir%\Wim\Win7x86SP0de-DE-B\2\Windows\system32
%boot_win%	-	Windows directory of %BootSRC% e.g.: %BaseDir%\Wim\Win7x86SP0de-DE-B\2\Windows
%boot_wow%	-	SysWow64 directory in %BootSRC% (64-bit media only) e.g.: %BaseDir%\Wim\Win7x86SP0de-DE-B\2\Windows\SysWoW64
%CDDrive%	-	Drive Y:
%DistLang%	-	Language of source media
%InstallSRC%	-	Install source (decompressed file install.wim) e.g.: %BaseDir%\Wim\Win7-Enterprisex86SP0de-DE-I
%Install_sys%	-	System32 directory of %InstallSRC% e.g.: %BaseDir%\Wim\Win7Enterprisex86SP0de-DE-I\Windows\System32
%Install_win%	-	Windows directory of %InstallSRC% e.g.: %BaseDir%\Wim\Win7Enterprisex86SP0de-DE-I\Windows
%Install_wow%	-	SysWoW64 directory in %InstallSRC% (64-bit media only) e.g.: %BaseDir%\Wim\Win7Enterprisex64SP0de-DE-I\Windows\SysWoW64
%Installwim%	-	Path to image file (Install.wim / Install.esd) (Project Win8PE only)
%ISOfile%	-	e.g.: %BaseDir%\ISO\Win8[SP0]-de_DE_x86.iso
%PECFG%	-	%TargetDir%\Windows\System32\win7pe.cfg
%PE_programs%	-	either X: :\%prog_files% or Y: :\%prog_files%
%ProjectTemp%	-	Temporary project directory (%BaseDir%\Temp\Multi7PE_SE)
%prog_files%	-	Program Files
%Ramboot%	-	True/False
%RamDrive%	-	Drive X:
%SourceEdition%	-	Edition of Windows Source
%target_sys%	-	System Target directory (%TargetDir%\Windows\System32)
%target_win%	-	Windows Target directory (%TargetDir%\Windows)
%target_wow%	-	SysWoW64 Target directory (%TargetDir%\Windows\SysWoW64)
%WIM_ARCH%	-	Image Architecture
%Wim_BootIdx%	-	Image Index of boot.wim
%WIM_BUILD%	-	Part of Microsoft file version (e.g.: 7600 bei ,6.1.7600.16385')
%WIM_Index%	-	Image Index

%WIM_MAJOR%	-	Part of Microsoft file version	(e.g.: 6 bei ,6.1.7600.16385')
%WIM_MINOR%	-	Part of Microsoft file version	(e.g.: 1 bei ,6.1.7600.16385')
%WIM_SPBUILD%	-	Part of Microsoft file version	(e.g.: 16385 bei ,6.1.7600.16385')
%WIM_SPLEVEL%	-	ServicePack Version	

WinXP PE:

%administrator%	-	Administrator
%admin_tools%	-	Computer Management
%all_users%	-	All Users
%app_data%	-	Application Data
%Basescripts%	-	%BaseDir%\Projects\%ProjectName%
%cookies%	-	Cookies
%common_files%	-	Common Files
%desktop%	-	Desktop
%doc_and_sett%	-	Documents and Settings
%docs%	-	Documents
%drCabFile%	-	Compressed driver file (in CAB format)
%favorites%	-	Favorites
%history%	-	History
%ISOfile%	-	%BaseDir%\ISOWinXPE.iso
%Keyboard%	-	Keyboard settings
%LangID%	-	Language of source media
%LangGroup%	-	Language Group
%local_sett%	-	Locale Settings
%LCID%	-	Locale ID
%ms_ie_quicklaunch%	-	Microsoft\Internet Explorer\Quick Launch
%mydocs%	-	My Documents
%OEMCP%	-	Code Page
%PE_Programs%	-	%Systemdrive%\%prog_files%
%prog_files%	-	Programs
%Ramboot%	-	True/False
%RamDrive%	-	Drive B:
%sendto%	-	SendTo
%source_sys%	-	%SourceDir%\I386\System32
%source_win%	-	%SourceDir%\I386
%SPCabFile%	-	Version of ServicePack cabinet file
%startmenu%	-	Start menu
%startmenu_prog%	-	Start menu\Programs
%startmenu_prog_startup%	-	Start menu\Programs\Autostart
%startup%	-	Autostart
%target_sys%	-	%TargetDir%\I386\System32
%target_win%	-	%TargetDir%\I386
%templates%	-	Templates
%temp_internet_files%	-	Temporary Internet Files

Common Variables:

%Arch%	-	Architecture of Source	(x86, x64)
%LSPVer%	-	Version number of LiveSyspro.exe	
%NT%	-	NT Version of Source	
		5.1	Windows XP
		5.2	Windows XP Professional x64, Server 2003
		6.0	Windows Vista, Server 2008
		6.1	Windows 7, Server 2008 R2
		6.2	Windows 8
		6.3	Windows 8.1
%NTVersion%	-	NT Version of Source	(5, 6)
%OS%	-	Operating system of Source	(WinXP, Win2003, WinVista, Win7, Win8)
%ProjectTemp%	-	Temporary Project directory	(e.g.: %BaseDir%\TempWinXPE)
%Target_CD%	-	Target directory	(%TargetDir%_CD)
%Target_Prog%	-	%TargetDir%\%prog_files%	
%Tools%	-	Tools directory	(%BaseDir%\Tools)

%PreUserdata%	-	%BaseDir%\Temp\%ProjectName%\UserData
%SP%	-	Version number of ServicePack

[Back to Table of Contents](#)

2.10. Special Characters

The following special chars will be used within LiveSystempro:

#\$x	-	Carriage Return + LineFeed
#\$q	-	Quotation marks ("")
#\$c	-	Comma
#\$p	-	Percent sign (%)
#\$s	-	Blank space
#\$d	-	Pipe ()

[Back to Table of Contents](#)

2.11. Shortcuts

Syntax:

Add_Shortcut,[Type],[StartMenuFolder],[FullFileName],[Title],[Workfolder],[Parameters],[IconFile]

Type	-	StartMenu Desktop Quicklaunch
StartMenuFolder	-	a. Special name for "Folder\Subfolder" b. "." For a shortcut in StartMenu\Programms c. Empty field is also possible
FullFileName	-	Only necessary if shortcut is different to %ProgramExe% . Default: %Pe_Programs%\%ProgramFolder%\%ProgramExe%
Title	-	Any title Default: %ProgramTitle%
Workfolder	-	Any work folder
Parameters	-	To start %ProgramExe% with parameters
IconFile	-	Only necessary using a special icon for shortcut

Examples:

Add_Shortcut,Desktop

Creates a shortcut of the program to run on the Desktop.

Add_Shortcut,StartMenu,%pTextBox1%

Creates a shortcut of the content of **%pTextBox1%** with the StartMenu.

Add_Shortcut,StartMenu,,MyProgramEXE,,,

Creates a shortcut of the program to run in **StartMenu\Programs** (No Subfolder).

Add_Shortcut,StartMenu,,MyProgramEXE,,,,exe.ico#\$c7

Creates a shortcut of the program to run in **Startmenü\Programme** with icon #7 of the EXE file.

Add_Shortcut,StartMenu,MyFolder\MySubfolder,MyProgramEXE,,,

Creates the folder *MyFolder\MySubfolder* in *StartMenu\Programs*, within this folder *MyProgramEXE* will be placed.

Add_Shortcut,Desktop,,,IrfanView Thumbnails,,/thumbs,%PE_Programs%\%ProgramFolder%\Thumbnails.ico
Creates a shortcut of *IrfanView Thumbnails* on the Desktop.
Start parameter for *%ProgramExe%* is */thumbs*, shows the icon of file *Thumbnails.ico*

[Back to Table of Contents](#)

2.12. Macros

- Macros provide the possibility to execute often used commands automatically (compare command **SetMacro**).
- Certain files (not all are needed) are decompressed by PreConfig from the source and put into the Wim cache. These are 2 separate Wim subdirectories (*boot.wim* and *install.wim*)
The macros work with these 2 Wim caches.

Exceptions:

Add_Shortcut and *RunFromRam* (all Projects)
CopyDesktopIni (Win8PE)

- Macros will be stored in *%Projectini% [Macros]*.
- **Fallback en-US:**
an English mui file will only be copied if *%Distlang%* mui does not exist.
If there are no matching mui files none will be copied. A missing mui file will **never** give an error!

Note:

The LSP projects use different macros.

Multi7PE_SE + Win8PE + WinXPE:

Add_ShortCut

Creates shortcuts of programs (compare section 2.11)

RunFromRAM,<Value>

Value - False | True

Regulates program execution in *RAM* or from *CD*

Examples:

RunFromRAM,False

The program (*=%PE_programs%*) will run from *CD* (Drive Y:)

RunFromRAM,True

The program (*=%PE_programs%*) will run in *RAM* (Drive X:)

Multi7PE_SE + Win8PE:

FileDecBoot

Unpacks files from *boot.wim* to *%BootSRC%*

Example:

FileDecBoot,Windows\System32\Wbem\%DistLang%\Msi.mfl

Extracts the file *Msi.mfl* to e.g.:

%BaseDir%\Wim\Win7SP0de-DE-B1\Windows\System32\Wbem\%DistLang%

FileDecInst

Unpacks files from *install.wim* to *%InstallSRC%*

Example:

FileDecInst,Windows\System32\Wbem.**

Extracts all files to e.g.:

%BaseDir%\Wim\Win7Enterprisex86SP0de-DE-I\Windows\System32\Wbem

ReqSys32,<File>

File - File in System32 directory (Install Wim Cache) to copy + mui (fallback en-US)

Example:

ReqSys32,mapi32.dll

Copies *mapi32.dll* to *Windows/System32*

Copies **mapi32.dll.mui** to **Windows/System32\%DistLang%**
 Wildcards are not supported.
 Gives an error if the file does not exist.

ReqB32,<File>

File - File in System32 directory (Boot Wim Cache) to copy + mui (fallback en-US)

Example:

ReqB32,attrib.exe
 Copies **attrib.exe** to **Windows/System32**
 Copies **attrib.exe.mui** to **Windows/System32\%DistLang%**
 Wildcards are not supported.
 Gives an error if the file does not exist.

ReqSysWoW64,<File>

File - File in SysWow64 directory (Install Wim Cache) to copy + mui (fallback en-US)

Example:

ReqSysWoW64,activeds.dll
 Copies the 32-bit file **activeds.dll** to **Windows\SysWoW64**
 Copies the 32-bit file **activeds.dll.mui** to **Windows\SysWoW64\%DistLang%**
 Wildcards are not supported.
 Gives an error if the file does not exist.

ReqWin,<File>

File - File in Windows directory (Install Wim Cache) to copy + mui (fallback en-US)

Example:

ReqWin,explorer.exe
 This will copy **explorer.exe** to **Windows**.
 This will copy **explorer.exe.mui** to **Windows\%DistLang%**.
 Wildcards are not supported.
 Gives an error if the file does not exist.

[Back to Table of Contents](#)

3. Script Control

3.1. Standard Sections of Scripts

Normally scripts are structured in these sections

[Main]
[Interface]
[Process]

Creation of additional necessary sections is always possible.

[Back to Table of Contents](#)

3.1.1. Section [Main]

Preferentially these entries should exist:

[Main]	
Title=	<i>Program title</i>
Description=	<i>Short description of program</i>
Selected=	<i>true</i> Script is enabled in tree view of interface
	<i>False</i> Script is disabled in tree view of interface
	<i>None</i> Script will be executed, cannot be checked or unchecked
	<i>Noprocess</i> Script will be shown but not executed
Level=	<i>Script level in tree view of LiveSystem pro</i>

- 1 - Build
- 2 - Shells
- 3 - Components
- 4 - Customize + Drivers
- 5 - Apps
- 8 - Finish
- 9 - Utils + Virtual Test

Author= *Name of script author*
 Version= *Progressive script version number*
 Date= *Date of creation or update date*

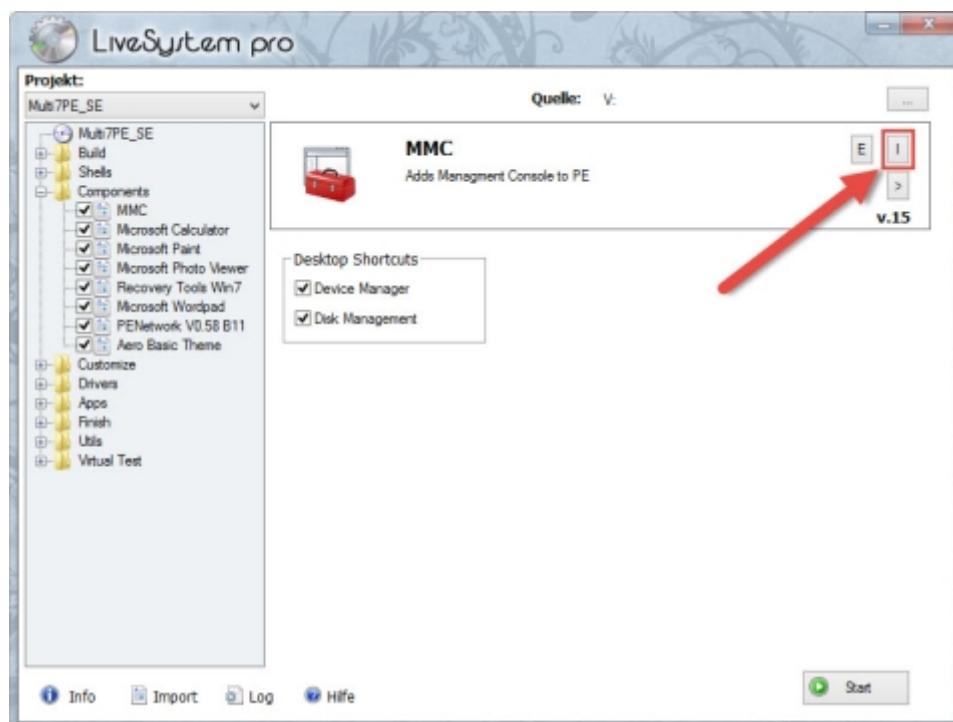
Entries in section [Main] to control other scripts:

Disable= *xyz.srt* Script will get disabled
 Enable= *xyz.srt* Script will get enabled

[Back to Table of Contents](#)

3.1.2. Section [Interface]

In this section happens the optical illustration of needed texts and checkboxes.
 Selection of checkboxes happens by clicking button **I** (see image):



Creation of multilingual interfaces

Additional interfaces can always get included according to this example:

[Interface] english texts and checkboxes
 [Interface.07] german texts and checkboxes
 [Interface.13] dutch texts and checkboxes

The builder will use automatically the right version.

[Back to Table of Contents](#)

3.1.3. Section [Process]

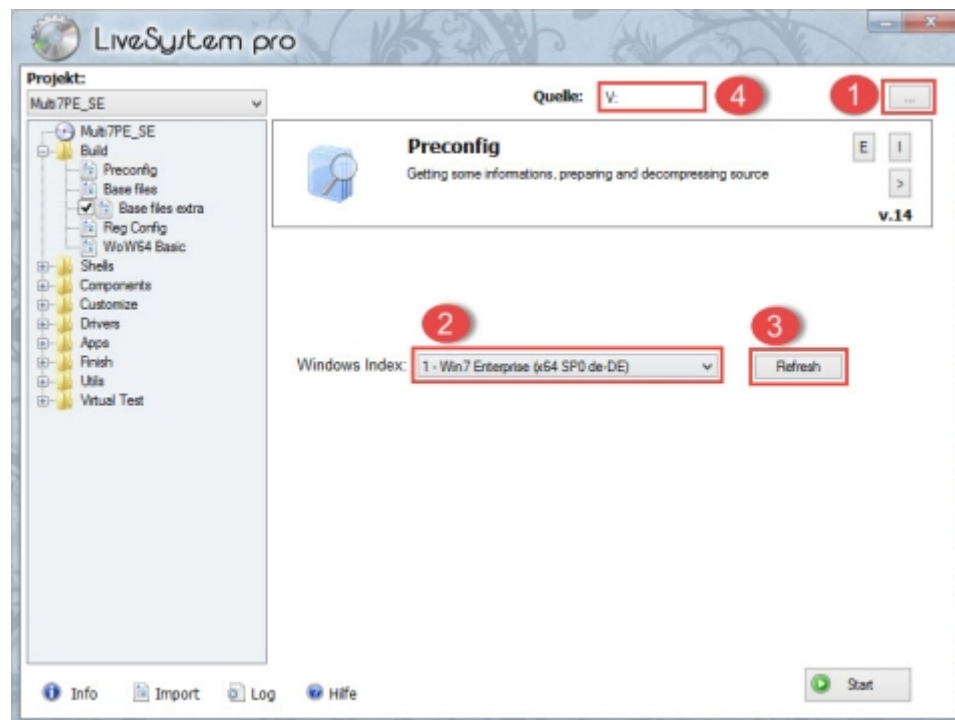
In this section all necessary commands have to take place to run a program.

[Back to Table of Contents](#)

3.2. Active Script Control

Some interface checkboxes can be used to make specific changes to the display of entries.

3.2.1. Choosing Windows Source



Before running the first build

Click on button **1:** Result: **4:** Display of source path
2: Display of Windows version

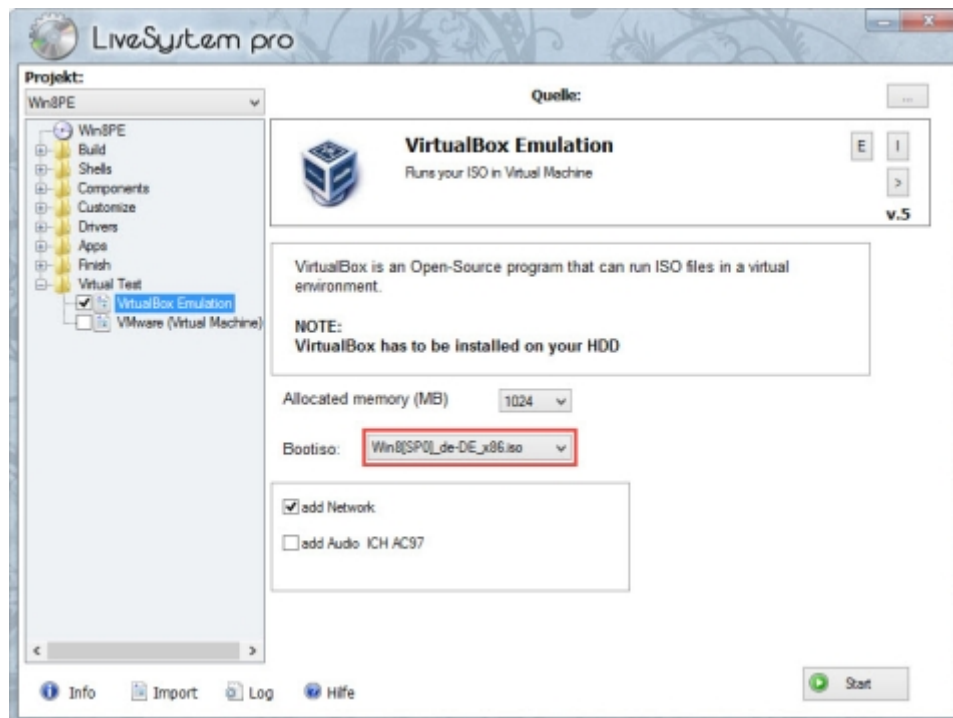
Before running an additional build using another Windows source

Click on button **3:** Result: **2:** Display of Windows version

[Back to Table of Contents](#)

3.2.2. Script-Select

Used to update boxes (example of an originally empty Scrollbox)



Example code:

```
[Interface.07]
pScrollBar3=,1,0,0,20,270,215,20
```

```
[Script-Select]
search,%Var%,File,%ISODir%,*.iso
Interface,set,pScrollBar3,%Var%
```

Result:

- Choosing the script in the tree view the Scrollbox gets updated
- pScrollBar3 gets updated:

```
[Interface.07]
pScrollBar3=Win7[SP0]_de-DE_x86.iso,1,0,0,20,270,215,20,Win7[SP0]_de-DE_x86.iso
```

[Back to Table of Contents](#)