

LiveSystem pro PE Builder

User Manual (v.12)

Version 1.0.5.2 and higher
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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

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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>

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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) |
| ⇒ | Windows 10 | (32/64-bit w/o ServicePack) |

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1.4. Supported PE Systems

LiveSystempro is available with 4 projects:

- | | | |
|---|--------|---|
| ⇒ | WinXPE | Windows XP, Windows 2003 (32/64-bit) |
| ⇒ | Win7PE | Windows Vista (32/64-bit)*
Windows 2008 (32/64-bit)*
Windows 7 (32/64-bit)* |

		Windows 2010 (32/64-bit)* * = all ServicePacks
⇒	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)
⇒	Win10PE	Windows 10 (32/64-bit)

All of them are integrated in LiveSystempro and selectable separately.

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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** .

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Echo

Shows an information

Syntax:

Echo,<Text>

Example:

Echo,Running script

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Exit

Quits the running script

Syntax:

Exit

Example:

If,%Arch%,x64,Then,Exit

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Halt

Stops accomplishment of build

Syntax:

Halt,[<Text>]

Text - any text (optionally)

Example:

Halt,Aborted by user

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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

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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

Timeout - **Warning** shows symbol Warning
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

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Pack

Compresses or decompresses a file

Syntax compress command:

Pack,<Compress>,<Targetfolder>,<File>

For files with extension '.zip' only

Syntax decompress command:

Pack,<Decompress>,<Filepath>,<Folder>[,<Filter>]

For files with extension '.zip' and '.7z'.

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*.

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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.

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Run

Performs a section in the specified script

Syntax:

Run,<ScriptPath>,<Section>[,<PARAMETER>]

- ScriptPath* - 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*.

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Set

Allocates a value to a Variable

Syntax:

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

- Value* - any value or path
- PERMANENT* - valid for the whole build, stored in *project.cfg* 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.

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Setmacro

Creates a macro

Syntax:

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

- Macroname* - any name without %%
- Command* - any valid build command
- PERMANENT* - valid for the whole build, stored in *project.cfg* 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

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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!

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SYSTEM

Command for System settings

Syntax:

System,<Systemcommand>,<Systemparameter>

Systemcommand:	<i>Error</i>	Enables / Disables error messages
	<i>FreeRam</i>	Shows free RAM
	<i>TotalRam</i>	Shows total RAM
	<i>GetDate</i>	Shows Date and Time
	<i>GetEnv</i>	reads Environment Variables
		<i>Temp</i>
		<i>ProgramFiles</i>
		<i>Number_Of_Processors</i>
	<i>GetFreeDrive</i>	Shows the next free available Drive Letter
	<i>GetFreeSpace</i>	Shows the available free Space
	<i>GetDriveType</i>	Shows medium's type
	<i>Log</i>	Enables / deactivates writing of LOG file
	<i>ProcessMode</i>	Launches the GUI in Process mode
	<i>SetPEinit</i>	Writes an entry in <i>Peinit.ini</i> (see section 2.10)

Systemcommand (x64 systems only):

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

Systemparameter:

concerning <i>Error</i>	On Off
concerning <i>FileRedirect</i>	On Off
concerning <i>FreeRam</i>	%Variable%
concerning <i>TotalRam</i>	%Variable%
concerning <i>GetDate</i>	Format - %yyyy - Year (4-digit) %yy - Year (2-digit) %mm - Month (2-digit) %dd - Day (2-digit) %hh - Hour (2-digit) %ii - Minute (2-digit) %ss - Second (2-digit)
concerning <i>GetFreeDrive</i>	%Variable%
concerning <i>GetFreeSpace</i>	%Variable%
concerning <i>GetDriveType</i>	Return value 1 - no Root 2 - portable Device 3 - Harddisk 5 - CDROM
concerning <i>SetPEinit</i>	%Variable%, [<Section>]
concerning <i>Log</i>	On Off
<i>Log, On, 1</i>	Enables writing of LOG file and deletes an existing LOG file
concerning <i>RegRedirect</i>	64 Off

Examples:

System,FILEREDIRECT,On

System,FILEREDIRECT,Off

System,REGREDIRECT,64

System,REGREDIRECT,Off

System,GETDATE,%yyyy,%Var%

Allocates to variable **%Var%** the current year (four-digit)

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 variable **%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

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Wait

Pauses the script by the specified milliseconds

Syntax:

Wait,<Milliseconds>

Example:

Wait,1000

(1 second = 1000 milliseconds)

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Wim Commands

Commands processing Image files

Syntax:

Wim,Create,<PackMethod>,<Folder>,<WimFile>

PackMethod - none (unpacked)
LZMS (LZMS Compression)

Wim,Extract,<Mode>,<WimFile>,<%WimIndex%>,<Parm1>[,<...>]

Mode - **File** extracts a file or a folder
FileList extracts files and folders from an existing list
Image extracts a complete image

%WimIndex% - Numeric value starting with 1
(system variable)

Parm1 - concerning **File** <File/Folder>,<TargetFolder>
concerning **FileList** <FileList>,<TargetFolder>
concerning **Image** <TargetFolder>

Wim,Info,<WimFile>,<%WimIndex%>,<ScriptFile>

%WimIndex% - Numeric value starting with 1
(system variable)

Wim,InfoEdition,<WimFile>,<ScriptElement>,<ScriptFile>

ScriptElement - supported is ,pScrollBar' only

Path to Image:

Win7PE, Win8PE+Win10PE: Usage of var **%Installwim%** (compare section 2.9)

Examples:

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

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 informations of all images from *install.wim* 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%,%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%%SourceE
dition%%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,2,f:\test5
Extracts *boot.wim* to directory *test5*.

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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

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2.2. Programmable Conditions (If Conditions)

If,...,Then

Syntax:

If,<Condition>,<%Variable%>,Then,<Command>

Negative Syntax:

If,Not,<Condition>,<%Variable%>,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\8042prt\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\8042prt\Parameters,Then,Message,Key exists
 This message will be shown if the complete RegKey does exist.

If,EXISTREGKEY,HKLM,PE-SYSTEM\ControlSet001\Services\8042prt\Parameters,,Then,Message,exists
 This message will be shown if value (*Default*) does exist in mentioned key.

If, SrtChecked, Build8-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 !

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

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

Syntax:

```
If, <Condition>, <%Variable%>, Then
    <Command_#1>
Else
    <Command_#2>
End
```

Examples:

```
If, ExistDir, C:\ntel, 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
```

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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.

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DirRemove

Deletes a directory

Syntax:

DirRemove,<Files/FolderToDelete>[,recursive]

Recursive: 1 deletes folders and possible subfolders
 0 default value, deletes only the files in the quoted folder

Examples:

DirRemove,C:\MyFolder,1

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

DirRemove,C:\MyFolder,0

Deletes all the files in folder *C:\MyFolder*.

DirRemove,C:\MyFolderMySubfolder,0

Deletes all the files in subfolder *MySubfolder*.

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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.

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DirMake

Creates a folder

Syntax:

DirMake,<NewFolder>

Example:

DirMake,C:\MyFolder
Creates the new folder *C:\MyFolder*.

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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.

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FileDelete

Deletes a single file

Syntax:

FileDelete,<File>

Example:

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

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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*

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FileCreateBlank

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

Syntax:

FileCreateBlank,<NewFile>[,<Encoding>]

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*

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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%,=#\$x,Then,String,%Var%,TRIGHT,%Var%,2
Sets the cursor **next** to the last existing char.

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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: *1* 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.

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CopyFile

Copies a file from Sourcefolder to Targetfolder.
This command is suitable for projects **Win7PE**, **Win8PE** and **Win10PE**.

Note:

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

Syntax:

CopyFile,<File>[,Mode]

Mode	0	-	w/o .mui file
	1	-	with .mui file + Fallback en-US
	2	-	with .mui file w/o Fallback en-US

Example:

SetReqFile,%boot_sys%,%DistLang%,%Fallback%,%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%*.

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CopyOrExpand

Copies a file and expands it if necessary
If the file cannot be found the builder searches for an extension with underline or for an abbreviated Extension

Syntax:

CopyOrExpand,<File>,<Targetfolder>

Example:

CopyOrExpand,%source_win%\SHELL32.DLL,%target_sys%

Copies the file *SHELL32.DLL* to *%target_sys%*.

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Expand

Extracts files from 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%*.

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GetDistLang

Reveals entering a folder or a file path the folder name with the best language file.
If there is no language file (.mui) available you will get an empty string.

Syntax:

GetDistLang,<%Variable%>,<Folder/File>,<Mui-List>[,<Mode>]

Folder/File	-	Folder or mother file
Mui-List	-	Folder name with mui files e.g. es-MX:de-DE:en-US (Entries separated by colon)
Mode	-	0 (empty issue will get ignored) 1 (empty issue results in error message)

Examples:

GetDistLang,%Var%,%boot_sys%\boot,%DistLang%:%FallBack%
Allocates to variable *%Var%* the value *de-DE* using a german source.

GetDistLang,%Var%,%boot_sys%\shell32.dll,%DistLang%:%FallBack%
Allocates to variable *%Var%* the value *de-DE* using a german source.

GetDistLang,%Var%,%boot_sys%\srms62.dat,%DistLang%:%FallBack%,1
Results in an error message as there is no .mui file available for *srms62.dat*.

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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 **Win7PE**, **Win8PE** and **Win10PE**.

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
	2	-	with .mui file w/o Fallback en-US

Example:

SetReqFile,%Install_sys%,%DistLang%,%Fallback%,%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%*.

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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%*.

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Retrieve

Query of special file informations

Syntax:

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

Parameter	-	DirSize	
		FileSize	
		FileVersion	
		MD5	
		FileDate	
		ResStr	(Resources string)
		FileArch	(for EXE files only)
FileDate only:		Param2	Modified Created
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* .

Retrieve,%Var%,FileDate,%BaseDir%\Temp\update.srt,Modified
Allocates to variable *%Var%* the alteration date of the mentioned file.

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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
```

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SetReqFile

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

Syntax:

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

SourceFolder	-	any folder
%DistLang%	-	Directory in %WinDir% with localized language file (MUI)
%Fallback%	-	Mui list (entries separated by “:”)
TargetFolder	-	any folder

Example:

```
SetReqFile,%boot_sys%,<%DistLang%>,<%Fallback%>,<%target_sys%>
Defines %boot_sys% as source folder and %target_sys% as target folder.
```

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

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ShellExecute

Starts a program or a file

Syntax:

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

Action	-	Show	Process will be shown
		Hide	Process will be hidden

Parameter	-	optional set of switches
------------------	---	--------------------------

WorkingDir	-	optional
-------------------	---	----------

Return value of ShellExecute: %ExitCode%
Exitcode 0: no error
Exitcode 1-32: different errors

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.

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Start

Starts a program without waiting

Syntax:

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

Action	-	<i>Show</i>	Process will be shown
		<i>Hide</i>	Process will be hidden

Parameter	-	optional set of switches
------------------	---	--------------------------

WorkingDir	-	optional
-------------------	---	----------

Example:

Start, Start, %WindowsDir%\Notepad.exe, %ScriptFile%

This command opens the running script with program *Notepad*.

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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.

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TXtReplace

Replaces 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.

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StrFormat

Returns some parts of a path name

Syntax:

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

Parameter	-	FILENAME	File name
		PATH	File path
		EXT	File extension
		SHORTPATH	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.

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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,Win7PE
Creates in file *LiveSyspro.ini* in section *[Main]* the entry *Project=Win7PE*

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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.

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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*.

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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*.

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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 (<i>ValuePos</i> and <i>KeyPos</i> 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)

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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*.

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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**.

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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.
```

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Interface,State

Changes the attribut of an Interface element

Syntax:

```
Interface,State,<Parameter>,<Element1>[,<Element2>][,...]
```

Supported Element Types - pTextBox
pScrollBar
pCheckBox
pFileBox
pTextLabel

The element types can also be defined as variables

Parameter: - hide / show

Example:

```
Interface,State,Hide,pScrollBar1
Hides the element pScrollBar1 inside the Interface
```

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Interface,Update

Updates the value of an Interface element

Syntax:

```
Interface,Update,<Element>
```

Example:

```
IniWrite,%ScriptFile%,Interface.07,pScrollBar2,Test,1,0,0,100,190,60,20,Val1,Val2,Test
Interface,Update,pScrollBar2
Updates the element pScrollBar2 in Interface.07 with value Test.
```

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2.4. Registry Processing

To handle the PE Registry the Registry Hives must be loaded, elaborated and after that unloaded.

RegLoad

Loads an external Registry Hive into the locale Registry of your system.

Syntax:

RegLoad,<HivePath>,<RegistryRoot>

Hivepath	-	Path to Hive file	
RegistryRoot	-	<i>PE-SYSTEM</i>	HKLM/SYSTEM
		<i>PE-SOFTWARE</i>	HKLM/SOFTWARE
		<i>PE-USER</i>	HKCU/Software
		<i>PE-COMPONENTS</i>	HKLM/COMPONENTS

Examples:

RegLoad,%RegSystem%,PE-SYSTEM
RegLoad,%RegSoftware%,PE-SOFTWARE
RegLoad,%RegUser%,PE-USER
RegLoad,%target_sys%\config\components,PE-COMPONENTS

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

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RegUnLoad

Unloads the external Registry Hive

Syntax:

RegUnLoad,<RegistryRoot>

Example:

RegUnLoad,PE-SYSTEM

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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)

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RegWrite

Creates or changes a Registry Key

Syntax:

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

HKEY	-	<i>HKLM</i>	-	HKEY_LOCAL_MACHINE
		<i>HKCR</i>	-	HKEY_CLASSES_ROOT
		<i>HKCU</i>	-	HKEY_CURRENT_USER
		<i>HKU</i>	-	HKEY_USERS
		<i>HKCC</i>	-	HKEY_CURRENT_CONFIG
		<i>HKLM64</i>	-	HKEY_LOCAL_MACHINE Wow64
		<i>HKCU64</i>	-	HKEY_CURRENT_USER Wow64
Type	-	<i>0x0</i>		empty key with entry (<i>Standard</i>)
		<i>0x1</i>	REG_SZ	writes a text
		<i>0x2</i>	REG_EXPAND	expanded variable in writing style <i>%%</i>
		<i>0x3</i>	REG_BINARY	writes a binary value
		<i>0x4</i>	REG_DWORD	writes a numeric value
		<i>0x7</i>	REG_MULTI_SZ	writes multiple strings separated by <i>#\$x</i>
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,SOFTWAREMyKey,Key0x7,%Var%,30,40

32-bit system:

Writes in REGKey *SOFTWAREMyKey* the character string *Key0x7* with following values
10 20 30 40

64-bit system:

Writes in REGKey *SOFTWAREWow6432NodeMyKey* the character string *Key0x7*
with following values *10 20 30 40*

Empty Multistring entries will get skipped

Examples:

RegWrite,HKLM,0x0,PE-SOFTWARENewKey

Writes into the PE-Registry the new key *NewKey*.

RegWrite,HKLM,0x0,PE-USER\Software\Microsoft\Windows\CurrentVersionMyRegKey

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 valuename *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 valuename *Test* with a binary value
01,02,03,04,aa,05.

Advice to Type 0x4:

Decimal notation is possible as well as hexadecimal notation

RegWrite, HKLM, 0x4, PE-SYSTEM\ControlSet001\Services\WpsSvc, Start, 3

Writes into the PE Registry in *HKLM\SYSTEM\ControlSet001\Services\WpsSvc* the valuename *Start* with a numeric value *3*.

RegWrite, HKLM, 0x4, PE-SYSTEM\ControlSet001\Services\WpsSvc, Start, 0xFF

Writes into the PE-Registry in *HKLM\SYSTEM\ControlSet001\Services\WpsSvc* the valuename *Start* with a numeric value *255*.

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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 **valuename** *ComputerName*.

RegDelete, HKLM, PE-SYSTEM\Test

Deletes in the mentioned Registry Key the **valuename** (*Standard*).

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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>	Number of characters in a string, beginning from the left
		<i>Right</i>	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** .

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String TLeft/TRight

Trims any characters of a string

Syntax:

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

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

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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**

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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** .

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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** .

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String REPLACE

Replaces a part of a string by another part

Syntax:

String, <%Variable%>, REPLACE, <String>, <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
```

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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% .
```

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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](ftp://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

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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

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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*

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2.8. Variables (intern)

These variables will be set by the Builder on StartUp

<i>%BaseDir%</i>	-	Root directory	(e.g.: C:\LiveSystempro)
<i>%BuildMode%</i>	-	Process mode	
		0:	Button „Start“
		1:	Commandline
		2:	Button „>“
		3:	Interface Element [Section]
<i>%CPUVM%</i>	-	checks if the processor is capable for Virtualization Technology (VT-x)	
		0:	not capable
		1:	capable
<i>%ExitCode%</i>	-	Exit code	
<i>%HostAdmin%</i>	-	User's administrator rights	
		0:	No administrator right
		1:	Administrator right
<i>%HostArch%</i>	-	Architecture of Host	(x86, x64)
<i>%HostLang%</i>	-	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	
%PEMode%	-	Win8PE only (with source Windows 8.1)	
		PE:	Build in PE-Mode
		OS:	Build in OS-Mode
%ProcessError%	-	0:	No error
		3:	Halt
		4:	Error
			(will be set in %Projectini%, [ONBUILDEXIT] only)
%ProgramFilesDir%	-	Program directory	(e.g.: C:\Program Files)
%Programs64%	-	64-bit program directory	
%ProjectDir%	-	Path to Project directory	(%BaseDir%\Projects\ <i><Project></i>)
%ProjectFolder%	-	Directory name of project	(Win7PE, Win8PE, Win10PE, WinXPE)
%Projectini%	-	Project file	(%BaseDir%\Projects\ <i><Project></i> \project.cfg)
%ProjectName%	-	Project name	(Win7PE, Win8PE, Win10PE, WinXPE)
%ScriptDir%	-	Folder with current scriptfile	
%ScriptFile%	-	current scriptfile	
%ScriptLvl%	-	Script level	
%SourceDir%	-	Source directory on installation media	
%TargetDir%	-	Target directory	(e.g.: %BaseDir%\Target\Win7PE)
%TempDir%	-	Path to User's Temp directory	(e.g.: C:\Users\ <i><Username></i> \AppData\Local\Temp)
%UserName%	-	Username	
%UserProfile%	-	Path to Home directory	(e.g.: C:\Users\ <i><Username></i>)
%WindowsDir%	-	Path to Windows directory	(e.g.: C:\Windows)
%WinUAC%	-	User Account Control (from Windows Vista onwards)	
		Value	0/1

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2.9. Variables (Project)

Win7PE, Win8PE, Win10PE:

%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	
%Fallback%	-	Mui list of source media (delimiter for 2 languages is “.”)	
%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)	(Win8PE + Win10PE only)
%ISOfile%	-	e.g.:	%BaseDir%\ISO\Win8[SP0]-de_DE_x86.iso
%PECFG%	-	%TargetDir%\Windows\System32\win7pe.cfg	
%ProjectTemp%	-	Temporary project directory	(e.g.: %BaseDir%\Temp\Win7PE)

<code>%prog_files%</code>	-	Program Files	
<code>%Ramboot%</code>	-	True/False	
<code>%RamDrive%</code>	-	Drive X:	
<code>%SourceEdition%</code>	-	Edition of Windows Source	
<code>%target_wow%</code>	-	SysWoW64 Target directory	(%TargetDir%\Windows\SysWoW64)
<code>%WIM_ARCH%</code>	-	Image Architecture	
<code>%Wim_BootIdx%</code>	-	Image Index of boot.wim	
<code>%WIM_BUILD%</code>	-	Part of Microsoft file version	(e.g.: 7600 bei ,6.1.7600.16385')
<code>%WIM_Index%</code>	-	Image Index	
<code>%WIM_MAJOR%</code>	-	Part of Microsoft file version	(e.g.: 6 bei ,6.1.7600.16385')
<code>%WIM_MINOR%</code>	-	Part of Microsoft file version	(e.g.: 1 bei ,6.1.7600.16385')
<code>%WIM_SPBUILD%</code>	-	Part of Microsoft file version	(e.g.: 16385 bei ,6.1.7600.16385')
<code>%WIM_SPLEVEL%</code>	-	ServicePack Version	

WinXP PE:

<code>%administrator%</code>	-	Administrator	
<code>%admin_tools%</code>	-	Computer Management	
<code>%all_users%</code>	-	All Users	
<code>%app_data%</code>	-	Application Data	
<code>%cookies%</code>	-	Cookies	
<code>%common_files%</code>	-	Common Files	
<code>%desktop%</code>	-	Desktop	
<code>%doc_and_sett%</code>	-	Documents and Settings	
<code>%docs%</code>	-	Documents	
<code>%drCabFile%</code>	-	Compressed driver file (in CAB format)	
<code>%favorites%</code>	-	Favorites	
<code>%history%</code>	-	History	
<code>%Keyboard%</code>	-	Keyboard settings	
<code>%LangID%</code>	-	Language of source media	
<code>%LangGroup%</code>	-	Language Group	
<code>%local_sett%</code>	-	Locale Settings	
<code>%LCID%</code>	-	Locale ID	
<code>%ms_ie_quicklaunch%</code>	-	Microsoft\Internet Explorer\Quick Launch	
<code>%mydocs%</code>	-	My Documents	
<code>%OEMCP%</code>	-	Code Page	
<code>%PE_Programs%</code>	-	%Systemdrive%\%prog_files%	
<code>%prog_files%</code>	-	Programs	
<code>%Ramboot%</code>	-	True/False	
<code>%RamDrive%</code>	-	Drive B:	
<code>%sendto%</code>	-	SendTo	
<code>%source_sys%</code>	-	%SourceDir%\i386\System32	
<code>%source_win%</code>	-	%SourceDir%\i386	
<code>%SPCabFile%</code>	-	Version of ServicePack cabinet file	
<code>%startmenu%</code>	-	Start menu	
<code>%startmenu_prog%</code>	-	Start menu\Programs	
<code>%startmenu_prog_startup%</code>	-	Start menu\Programs\Autostart	
<code>%startup%</code>	-	Autostart	
<code>%target_sys%</code>	-	%TargetDir%\i386\System32	
<code>%target_win%</code>	-	%TargetDir%\i386	
<code>%templates%</code>	-	Templates	
<code>%temp_internet_files%</code>	-	Temporary Internet Files	

Common Variables:

<code>%AppsDir%</code>		Default directory for Downloads	(%BaseDir%\Temp\Apps)
<code>%Arch%</code>	-	Architecture of Source	(x86, x64)
<code>%LSPVer%</code>	-	Version number of LiveSyspro.exe	
<code>%NT%</code>	-	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	
		10.0	Windows 10	
%NTVersion%	-		NT Version of Source	(5, 6)
%OS%	-		Operating system of Source	
			(WinXP, Win2003, WinVista, Win7, Win8, Win10)	
%PE_programs%	-		either X:\%prog_files% or Y:\%prog_files%	
%PreUserdata%	-		%BaseDir%\Temp\%ProjectName%\UserData	
%ProjectTemp%	-		Temporary Project directory (e.g.: %BaseDir%\Temp\WinXPE)	
%RegSoftware%	-		Path to Registry hive PE-SOFTWARE	
%RegSystem%	-		Path to Registry hive PE-SYSTEM	
%RegUser%	-		Path to Registry hive PE-USER	
%SP%	-		Version number of ServicePack	
%Target_CD%	-		Target directory	(%TargetDir%_CD)
%Target_Prog%	-		%TargetDir%\%prog_files%	
%Target_Sys%	-		System Target directory	(%TargetDir%\Windows\System32)
%Target_Win%	-		Windows Target directory	(%TargetDir%\Windows)
%Tools%	-		Tools directory	(%BaseDir%\Tools)

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2.10. System,SetPEInit

PEInit runs some tasks (Start of programs, opening cmd-Boxes, etc.) together with start of **WindowsPE**. These commands are written to file *Peinit.ini*. The range of commands reaches from **001** up to **059**, whereas **001** up to **015** are reserved for the running project.

Syntax:

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

ID	Entry ID (chars or digits)
Section	Valid in script only Init (before starting Explorer) Startup

Commands using Show/Hide Effect for start of programs:

CMD	
Run	
RunWait	
Show/Hide Effect:	
Show	shows the starting program (Default setting, might be ignored therefore)
Hide	hides the starting program

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
```

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
Examples:
`CMD|Imd # $q %RamDrive% \ %doc_and_sett% \Default User\ %local_sett% \Temp# $q`
[Shows the cmd box](#)
`CMD|Hide|Imd # $q %RamDrive% \ %doc_and_sett% \Default User\ %local_sett% \Temp# $q`
[Hides the cmd box](#)
- 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`
- DllInstall** installs a DLL file
Example:
`DllInstall|shell32.dll`
also available with additional install parameter
Examples:
`DllInstall|shell32.dll|setup`
`DllInstall|shell32.dll|InitMain`
`DllInstall|themeui.dll|UserInstall`
- DrvLetter** changes the drive letter
Example:
`DrvLetter| %CDDrive% |I386\ %ImageFile%`
- FileDelete** deletes a file
- 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
- RegDelete** deletes a Registry value
`RegDelete, <Key>, [optional Value]`
Examples:
`RegDelete\HKLM\SYSTEM\CurrentControlSet\Services\AmdK8`
`RegDelete\HKLM\SYSTEM\CurrentControlSet\Services\AmdK8|Start`
- Register** registers a DLL file
Example:
`Register|shell32.dll`
- RegWrite** writes a Registry value
Example:
`RegWrite\HKLM\0x1\SYSTEM\ControlSet001|key|ka# $-dre ; '$-d = "|`
For special chars you have to use the keyword **\$-d = "|**
- SetRes** changes the screen resolution
Example:
`SetRes|1024|768`
- StartService** starts a service
Example:
`StartService|Ext2fs|IfsDrives`
multiple specifications are possible (separated by |)

Location of **Peinit.ini:**

- WinXPE:** X:\I386\SYSTEM32
Win7PE: X:\Windows\System32
Win8PE: X:\Windows\System32

Win10PE: X:\Windows\System32

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2.11. 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 ()

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2.12. 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 <i>%ProgramExe%</i> . Default: <i>%Pe_Programs%\%ProgramFolder%\%ProgramExe%</i>
Title	-	Any title Default: <i>%ProgramTitle%</i>
Workfolder	-	Any work folder
Parameters	-	To start <i>%ProgramExe%</i> 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,MyFolderMySubfolder,MyProgramEXE,,,

Creates the folder *MyFolderMySubfolder* 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*

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2.13. 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)

- 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.

All Projects:

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:)

Win7PE, Win8PE, Win10PE:

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.

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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.

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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>	
	<i>1 - Build</i>	
	<i>2 - Shells</i>	

- 3 - Components
- 4 - Customize + Drivers
- 5 - Apps
- 8 - Finish + Virtual Test
- 9 - Utils

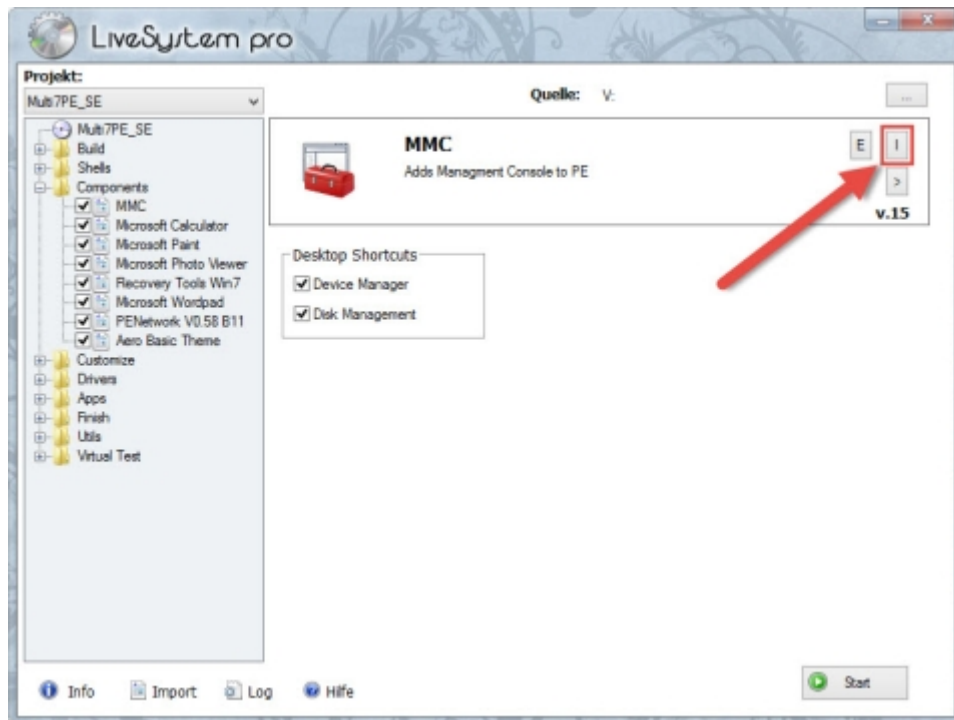
Author= *Name of script author*
 Version= *Progressive script version number*
 Date= *Date of creation or update date*

Entries in section [Main] to control other scripts:
 Disable= *xyz.srt* Script will get disabled
 Enable= *xyz.srt* Script will get enabled

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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

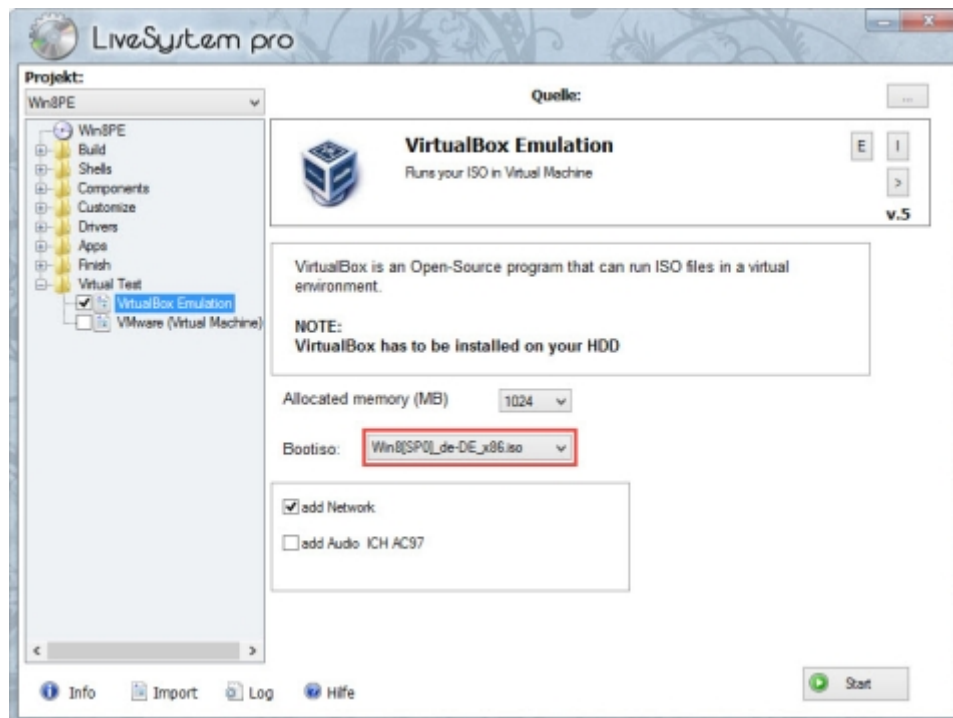
Additional interfaces can always get included according to this example:

[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.

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3.1.3. Section [Process]



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
```

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