



**LANDesk[®] Management Suite 8.5
Command Line Switches for OS Deployment tools
Image.exe and Imagew.exe**

Revision 1.0

**Jared Barneck
August 16, 2005**

Information in this document is provided in connection with LANDesk Software products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in terms and conditions for such products, LANDesk Software assumes no liability whatsoever, and LANDesk Software disclaims any express or implied warranty, relating to sale and/or use of LANDesk Software products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. LANDesk Software products are not intended for use in medical, life saving, or life sustaining applications. The reader is advised that third parties can have intellectual property rights that can be relevant to this document and the technologies discussed herein, and is advised to seek the advice of competent legal counsel, without obligation of LANDesk Software.

LANDesk Software retains the right to make changes to this document or related product specifications and descriptions, at any time, without notice. LANDesk Software makes no warranty for the use of this document and assumes no responsibility for any errors that can appear in the document nor does it make a commitment to update the information contained herein.

Copyright © 2004, LANDesk Software, Ltd. All rights reserved.

LANDesk, Targeted Multicast, and Peer Download are registered trademarks or trademarks of LANDesk Software, Ltd. or its controlled subsidiaries in the United States and/or other countries.

*Other brands and names may be claimed as the property of others.

Table of Contents

Imagew.exe for Windows and Image.exe for DOS	4
Image for Windows (imagew.exe)	4
Imagew.exe Capture Switches	4
Imagew.exe Capture Switch Examples	5
Imagew.exe Restore Switches	6
Imagew.exe Restore Switch Examples	7
Imagew.exe Validate Switches.....	8
Imagew.exe Validate Switch Examples	8
Image for DOS (image.exe)	9
Image.exe Capture Switches	9
Image.exe Capture Switch Examples	10
Image.exe Restore Switches	11
Image.exe Restore Switch Examples.....	12
Image.exe Validate Switches.....	13
Image.exe Validate Switches.....	13

Imagew.exe for Windows and Image.exe for DOS

LANDesk includes both a 32 bit (windows) and a 16 bit (DOS) Imaging tool with the LANDesk Management Suite: Imagew.exe for windows, and Image.exe for DOS.

Image for Windows (imagew.exe)

Imagew.exe is a 32 bit imaging tool that can capture from within windows. However, in order to capture from windows, a file locking tool called phylock must be installed.

Imagew.exe Capture Switches

It is possible to see a list of command line switches by running the following from the core at a command prompt:

```
\\CoreServer\ldmain\osd\imaging\imagew.exe /?
```

```
Imagew.exe /Chx[V][B][R] [/U] /CDn|d:\filename.img[:s]
```

Required Parameters

/C[hd][id]	Create image source [hd] is source hard drive number (0 through 9) [id] is source partition ID
/CDn d:<path>\<file> [hd][id]:\<path>\<file>	
/CDn	Save to CD/DVD drive "n"
d:<path>\<file>	Save to drive letter "d"
[hd][id]:\<path>\<file>	Save to destination hard drive number [hd] and partition ID [id]

Optional Paramters

/U	No compression when creating image
V	Validate the image after creating
VB	Validate the image byte-for byte after creating
R	Perform per-disc validation (only when saving to CD/DVD)
d:<path>\<file>;[max file size]	
d:<path>\<file>;0	0 means the maximum backup file size is 2.0 GB (the default)
d:<path>\<file>;1	1 means the maximum backup file size is 698 MB
d:<path>\<file>;2	2 means the maximum backup file size is 648 MB
d:<path>\<file>;Msize	Msize means the maximum backup file size of the amount specified: size MB (2047 Max)

Imagew.exe Capture Switch Examples

Example 1

imagew.exe /C20x4VB /U E:\BACKUPS\WINDOWS;1

- Backs up hard drive number 2, partition ID 0x4 (/C20x4VB)
- Saves to drive letter E:, under path and file name "\BACKUPS\WINDOWS"
- Performs byte-for-byte validation (/C20x4VB)
- Uses no compression (/U)
- Maximum file size will be 698 MB (;1)

Example 2

imagew.exe /C10x5V /CD1

- Backs up hard drive number 1, partition ID 0x5 (/C10x5V)
- Saves to CD/DVD drive number 1 (/CD1)
- Performs standard validation (/C10x5V)
- Uses compression (the default)
- Maximum file size will be determined by destination CD/DVD media

Example 3

imagew.exe /C00x1R /CD2

- Backs up hard drive number 0, partition ID 0x1 (/C00x1R)
- Saves to CD/DVD drive number 2 (/CD2)
- Performs per-disc validation (/C00x1R)
- Uses compression (the default)
- Maximum file size will be determined by destination CD/DVD media

Example 4

- imagew.exe /C00x1 10x1:\DATA01\BACKUP
- Backs up hard drive number 0, partition ID 0x1 (/C00x1)
- Saves to hard drive number 1, partition ID 0x1, and path/file name "\DATA01\BACKUP" (10x1)
- Performs no validation (the default)
- Uses compression (the default)
- Maximum file size will be 2.0 GB (the default)

Imagew.exe Restore Switches

Imagew.exe /R[h][N][V][A][X] [/O|/C] /CDn[file] | d:\filename.img

Required Parameters

/R[hd]	Restore image destination [hd] is destination hard drive number (0 through 9)
/CDn[file] d:<path>\<file> [hd][id]:\<path>\<file>	
/CDn[file]	Restore from CD/DVD drive "n" (specifying [file] is optional)
d:<path>\<file>	Restore from drive letter "d"
[hd][id]:\<path>\<file>	Restore from source hard drive number [hd] and partition ID [id]

Optional Parameters

/O	Overwrite existing data without warning (advanced users only) Cannot be used with /C or /CR options
/C	Clear MBR and EMBR before restore (advanced users only) Cannot be used with /O option
/CR	Clear MBR and EMBR, and restore NT signature (advanced users only) Cannot be used with /O option
N	Suppress prompt to reboot after restore (advanced users only)
V	Validate the image before restoring
A	Set the restored partition active
X[mb]	Expand the restored partition to fill leftover free space, if any, minus the number of megabytes specified by [mb]
Z	Restore a Linux partition without changing the hard drive reference.
M	Restore to the first block of free space on the destination drive that is large enough to accommodate the restored partition

Imagew.exe Restore Switch Examples

Example 1

`imagew.exe /ROVAX "D:\System Backups\Monthly01"`

- Restores to destination hard drive # 0 (/ROVAX)
- Restores from backup source "D:\System Backups\Monthly01" (quotes required for long file name)
- Provides overwrite confirmation (the default)
- Will not suppress reboot prompt (the default)
- Will validate the backup before performing the restore (/ROVAX)
- Will not clear the MBR, EMBR, or NT signature (the default)
- Will set the restored partition active (/ROVAX)
- Will expand the restored partition to fill leftover free space, if any (/ROVAX)

Example 2

`imagew.exe /R1 /O /CD2backup`

- Restores to destination hard drive #1 (/R1VAX)
- Restores from CD/DVD drive #2 (/CD2backup)
- Restores the file named "backup.img" (/CD2backup) on CD/DVD drive #2
- Does not provide overwrite confirmation (/O)
- Will not suppress reboot prompt (the default)
- Will not validate the backup before performing the restore (the default)
- Will not clear the MBR, EMBR, or NT signature (the default)
- Will not set the restored partition active (the default)
- Will not expand the restored partition to fill leftover free space, even if present (the default)

Example 3

`imagew.exe /R1NV 10x1:\BACKUPS\MARCH`

- Restores to destination hard drive #1 (/R1NV)
- Restores from hard drive #1, partition ID 0x1, and path/file name "BACKUPS\MARCH" (10x1)
- Provides overwrite confirmation (the default)
- Will suppress reboot prompt, even if reboot is required (/R1NV)
- Will validate the backup before performing the restore (/R1NV)
- Will not clear the MBR, EMBR, or NT signature (the default)
- Will not set the restored partition active (the default)
- Will not expand the restored partition to fill leftover free space, even if present (the default)

Imagew.exe Validate Switches

Imagew.exe /V /CDn|d:\filename.img

Required Parameters

/V	Validate image
/CDn d:<path>\<file> [hd][id]:\<path>\<file>	
/CDn	Validate backup on CD/DVD drive "n"
[hd][id]:\<path>\<file>	Validate backup on source hard drive number [hd] and partition ID [id]

Optional Parameters

None	
------	--

Imagew.exe Validate Switch Examples

Example 1

imagew.exe /V "D:\System Backups\Monthly01"

- Validates the backup file "D:\System Backups\Monthly01" (quotes required for long file name)

Example 2

imagew.exe /V /CD1

- Validates the backup mounted on CD/DVD drive number 1 (/CD1)

Example 3

imagew.exe /V 20x3:\BKUP

- Validates the backup file on hard drive number 2, partition ID 0x3, and path/file name "BKUP" (20x3)

Image for DOS (image.exe)

Image for DOS is a 16 bit imaging tool. It must be run from DOS and cannot be run from windows.

Image.exe Capture Switches

Image.exe /C[F|U|A]hx[V][B][R] [/U] /CD[S]n|d:\file.img[:s]

Required Parameters

/C[hd][id]	Create image source [hd] is source hard drive number (0 through 9) [id] is source partition ID
/CF[hd][id]	Prefix [hd][id] with F if source is IEEE 1394 device
/CU[hd][id]	Prefix [hd][id] with U if source is USB 2 device
/CA[hd][id]	Prefix [hd][id] with A for direct hard drive access (equivalent to ATA environment variable and ATA=1 INI setting)
/CDn d:<path>\<file> [hd][id]:\<path>\<file>	
/CDn	Save to CD/DVD drive number "n"
/CDSn	Prefix n with S if destination CD/DVD uses ASPI driver
d:<path>\<file>	Save to drive letter "d"
[hd][id]:\<path>\<file>	Save to destination hard drive number [hd] and partition ID [id]

Optional Parameters

/U	No compression when creating image
V	Validate the image after creating
VB	Validate the image byte-for byte after creating
R	Perform per-disc validation (only applicable when saving to CD/DVD)
d:<path>\<file>;[max file size]	
d:<path>\<file>;0	0 means the maximum backup file size is 2.0 GB (the default if omitted)
d:<path>\<file>;1	1 means the maximum backup file size is 698 MB
d:<path>\<file>;2	2 means the maximum backup file size is 648 MB
d:<path>\<file>;Msize	Msize means the maximum backup file size of the amount specified: size MB (2047 Max)

Image.exe Capture Switch Examples

Example 1

image.exe /C20x4VB /U E:\BACKUPS\WINDOWS;1

- Backs up hard drive number 2, partition ID 0x4 (/C20x4VB)
- Saves to drive letter E:, under path and file name "\BACKUPS\WINDOWS"
- Performs byte-for-byte validation (/C20x4VB)
- Uses no compression (/U)
- Maximum file size will be 698 MB (;1)

Example 2

image.exe /C10x5V /CD1

- Backs up hard drive number 1, partition ID 0x5 (/C10x5V)
- Saves to CD/DVD drive number 1 (/CD1)
- Performs standard validation (/C10x5V)
- Uses maximum compression (the default)
- Maximum file size will be determined by destination CD/DVD media

Example 3

image.exe /C00x1R /CD2

- Backs up hard drive number 0, partition ID 0x1 (/C00x1R)
- Saves to CD/DVD drive number 2 (/CD2)
- Performs per-disc validation (/C00x1R)
- Uses compression (the default)
- Maximum file size will be determined by destination CD/DVD media

Example 4

image.exe /C00x1 10x1:\DATA01\BACKUP

- Backs up hard drive number 0, partition ID 0x1 (/C00x1)
- Saves to hard drive number 1, partition ID 0x1, and path/file name "\DATA01\BACKUP" (10x1)
- Performs no validation (the default)
- Uses maximum compression (the default)
- Maximum file size will be 2.0 GB (the default)

Image.exe Restore Switches

Required Parameters

/R[hd]	Restore image destination [hd] is hard drive number (0 through 9)
/RF[hd]	Prefix [hd] with F if target is IEEE 1394 device
/RU[hd]	Prefix [hd] with U if target is USB 2 device
/RA[hd]	Prefix [hd][id] with A for direct hard drive access (equivalent to ATA environment variable and ATA=1 INI setting)
/CDn[file] d:<path>\<file> [hd][id]:\<path>\<file>	
/CDn[file]	/CDn[file] Restore from CD/DVD drive "n" (specifying [file] is optional)
/CDSn[file]	Prefix n with S if destination CD/DVD uses ASPI driver
/CDFn[file]	Prefix n with F if source is IEEE 1394 device
/CDUn[file]	Prefix n with U if source is USB 2 device
d:<path>\<file>	Restore from drive letter "d"
[hd][id]:\<path>\<file>	Restore from source hard drive # [hd] and partition ID [id]

Optional Parameters

/O	Overwrite existing data without warning (advanced users only) Cannot be used with /C or /CR options
/C	Clear MBR and EMBR before restore (advanced users only)
/CR	Clear MBR and EMBR, and restore NT signature (advanced users only)
N	Suppress prompt to reboot after restore (advanced users only)
V	Validate the image before restoring
A	Set the restored partition active
X	Expand the restored partition to fill leftover free space, if any
X[mb]	Expand the restored partition to fill leftover free space, if any, minus the number of megabytes specified by [mb]
Z	Restore a Linux partition without changing the hard drive reference.
M	Restore to the first block of free space on the destination drive that is large enough to accommodate the source partition

Image.exe Restore Switch Examples

Example 1

image.exe /R0VAX d:\system~1\month1~1

- Restores to destination hard drive number 0 (/R0VAX)
- Restores from backup source d:\system~1\month1~1 (the MS-DOS 8.3 naming convention is used)
- Provides overwrite confirmation (the default)
- Will not suppress reboot prompt (the default)
- Will validate the backup before performing the restore (/R0VAX)
- Will not clear MBR or EMBR (the default)
- Will set the restored partition active (/R0VAX)
- Will expand the restored partition to fill leftover free space, if any (/R0VAX)

Example 2

image.exe /R1 /O /CD2backup

- Restores to destination hard drive number 1 (/R1VAX)
- Restores from CD/DVD drive number 2 (/CD2backup)
- Restores the file named "backup" (/CD2backup) on CD/DVD drive number 2
- Does not provide overwrite confirmation (/O)
- Will not suppress reboot prompt (the default)
- Will not validate the backup before performing the restore (the default)
- Will not clear MBR or EMBR (the default)
- Will not set the restored partition active (the default)
- Will not expand the restored partition to fill leftover free space, even if present (the default)

Example 3

image.exe /R1NV 10x1:\BACKUPS\MARCH

- Restores to destination hard drive number 1 (/R1NV)
- Restores from hard drive number 1, partition ID 0x1, and path/file name "BACKUPS\MARCH" (10x1)
- Provides overwrite confirmation (the default)
- Will suppress reboot prompt, even if reboot is required (/R1NV)
- Will validate the backup before performing the restore (/R1NV)
- Will not clear MBR or EMBR (the default)
- Will not set the restored partition active (the default)
- Will not expand the restored partition to fill leftover free space, even if present (the default)

Image.exe Validate Switches

Image.exe /V /CD[S|F|U]n|d:\file.img

Required Parameters

/CDn d:<path>\<file> [hd][id]:\<path>\<file>	
/CDn	Validate backup on CD/DVD drive "n"
/CDSn	Prefix n with S if source CD/DVD uses ASPI driver
/CDFn	Prefix n with F if source is IEEE 1394 device
/CDUn	Prefix n with U if source is USB 2 device
d:<path>\<file>	Validate backup on drive letter "d"
[hd][id]:\<path>\<file>	Validate backup on source hard drive number [hd] and partition ID [id]

Optional Parameters

None	
------	--

Image.exe Validate Switches

Example 1

image.exe /V d:\system-1\month1-1

- Validates the backup file d:\system-1\month1-1 (the MS-DOS 8.3 naming convention is used)

Example 2

Image.exe /V /CD1

- Validates the backup mounted on CD/DVD drive number 1 (/CD1)

Example 3

Image.exe /V /CDF2

- Validates the backup mounted on IEEE 1394 CD/DVD drive number 2 (/CDF2)
- Image.exe /V 20x3:\BKUP
- Validates the backup file on hard drive number 2, partition ID 0x3, and path/file name "BKUP" (20x3)