

Zinstall Migration Kit Pro User Guide



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Thank you for purchasing Zinstall Migration Kit Pro.

If you have any questions, issues or problems, please contact us:

Support email:	support@zinstall.com
Sales email:	sales@zinstall.com
Visit our website:	www.zinstall.com

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Introduction

Zinstall Migration Kit Pro supports multiple migration scenarios, among them:

- 1. **Migration from one computer to another**: over the network or via a direct network cable
- 2. **Migration from a separate hard drive (for example, from a broken computer)**: by transferring applications, settings and files directly off the source computer's hard drive
- 3. Transfer via intermediate storage location, without a direct connection (such as with a USB external hard drive or via a network share): Capturing a machine into a container file, and deploying a container file on another machine – used when both machines are not available at the same time, or to use a separate storage location instead of a network transfer.
- Transfer from a physical machine to a Virtual Machine (P2V), or V2V / Cloud to Cloud
 including Hyper-V, VMWare, Cloud and VDI environments, or even cross-Cloud
 transfers such as Azure and Amazon AWS.
- 5. Upgrade to Windows 7 / 8 / 10 in-place, on the same physical computer when the new Windows is installed on an existing machine

In each of the scenarios, the Kit allows to transfer the entire user workspace, including applications, settings, personalization, documents, domain settings, security policies and data files. Zinstall Migration Kit Pro performs a native migration, implanting all of the above directly into the target environment.

Each of the scenarios can be modified to perform **selective** transfer, transfer of **profile and data** only, transfer to an **SSD – HDD combination**, or transfer using an **encrypted** container.

Windows OS, security suites/antiviruses and special purpose drivers are not transferred from the source system.

System Requirements

Migration Target

	Minimum	Recommended
Processor	Intel Pentium 4 or AMD Athlon XP CPU	Intel or AMD Dual core CPU
Memory	1GB RAM	2GB RAM or higher
Hard drive free space	1GB and, in addition, enough space for transferred applications and files	20GB and, in addition, enough space for transferred applications and files
Network Adapter	10/100 network adapter / wireless	Gigabit network adapter

Operating system supported

Operating system	Source (Old)	Target (New)
Windows 10	Yes	Yes
Windows 8	Yes	Yes
Windows 7	Yes	Yes
Windows Vista	Yes	Yes
Windows XP	Yes	Yes

Notes

- Zinstall software must be executed with administrative privileges on both source and target systems
- Zinstall software cannot be executed when the Windows OS is running in safe mode
- If the Windows operating system is malfunctioning, or any of Windows subcomponents are corrupt, the migration might not work properly
- Internet connection is required to perform online product activation

Preparing for Migration

Before You Begin

Before beginning the transfer process, it is recommended to prepare your system according to the following checklist. Doing so will ensure the migration is successful and not affected by possible system issues.

- 1. Uninstall / disable all security software, antivirus or firewalls.
- 2. Close all running applications.
- 3. For older machines, it is recommend to verify file system consistency by running the standard Windows CHKDSK utility. For further instructions, see *Appendix A, CHKDSK*
- 4. For Windows XP machines, if one of the hard drives you are using is formatted with the FAT32 file system, it is required to convert them to NTFS before performing the migration. For further instructions, see page 42, Converting a FAT32 drive to NTFS file system.
- 5. Make sure there is at least 1 GB free space on each hard drive.

Anti-virus / Internet security software

Some releases of anti-virus / internet security software products lack a proper identifying mechanism and might mistakenly consider Zinstall software to be a threat. Zinstall code is digitally signed, according to policy, by official worldwide Certification Authority; nevertheless, some of the anti-virus / internet security software might automatically, and without asking the user, prevent Zinstall from normal execution. It is recommended to uninstall anti-virus / internet security software, in order to get instructions on how to add Zinstall to the "white list" of permitted software.

Domain considerations

If you are migrating between two computers in a domain environment, you must add the target machine to the domain **before** the migration, and log in as the same user on both machines.

Furthermore, during the migration process, the target computer should be on the domain network, in order to allow it to authenticate the transferred profiles.

Running and activating the software

The first step in performing the migration is running the software on your computers.

IMPORTANT: If you have two computers (migrating from one to another, i.e. an old one and a new one), you need to run the software on both the source and the target computer.

Follow this guide on each of the computers involved:

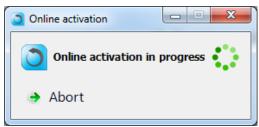
- 1. If an Internet connection is available, connect the computer to the Internet to simplify product activation.
- 2. Put the Zinstall software on the SOURCE computer
 - a. If the Zinstall product was purchased electronically, download the software using the link from the Zinstall License Information email received after purchasing.
 - b. If the Zinstall product was obtained as a packaged CD, install the software from the CD.
- 3. Run the software
- 4. Perform product activation:
 - a. When Zinstall software is purchased electronically over the Internet, the serial number is obtained from the License Information email, which is sent from Zinstall Support upon purchase.
 - b. When Zinstall software is purchased as a packaged CD, the serial number is printed on a sticker on the CD package.
 - c. You need to supply the serial number when prompted by the software.
 - d. When Zinstall software runs for the first time, you will be asked to enter the serial number and your email address:

Zinstall activ	vation						?	×
Please enter	your license info	rmation:						
Serial Number:	I	-	-	-	-	-	-	
Email:								
				→ <u>Dor</u>	n't have	a licen	se? Click h	<u>ere</u>
CO Z	install					Activate	Cance	4

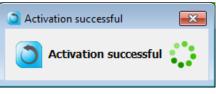
- e. It is very important to provide a correct email address, otherwise you may experience difficulties in receiving support Zinstall Support System recognizes licensed users by email address.
- 5. Enter the serial number and email address
 - a. If a red "X" appears to the right of the serial number, this means that the serial number has been accidentally mistyped. Double-check all of the characters, and correct the typo.
 - b. When a green checkmark appears to the right of the serial number, this means that the number has been typed correctly.

?	? *
:	:
DDDD-EEEE-FFFF-GGGG-HHHH-ZZ	-DDDD-EEEE-FFFF-GGGG-HHHH-3F
s@example.com	s@example.com
Don't have a license? Click here	Don't have a license? Click here
Activate Cancel	Activate Cancel

6. Press the "Activate" button. An "Activation in progress" message will appear:



- a. If the computer is connected to the Internet, activation will be performed automatically over the Internet.
- b. If the computer cannot be connected to the Internet, the activation can be performed using any other Internet connection ("offline activation"). If this is the case, see *Appendix A, Web Activation* for further instructions.
- 7. After a successful activation, the following message will appear:



What is your migration scenario?

Before you begin the migration process, check which of the scenarios below best matches your situation and goals. Then, follow the appropriate guide to complete your migration.

Scenario 1: Migration from one computer to another

For transfers between two computers – a Source and a Target – when both computers are fully functional and connected to the same network.

IMPORTANT: This transfer is performed with the computers connected to the same network, same router or directly with a network cable. When your computers cannot connect to each other properly, refer to Scenario 1 (transfer by connecting the source computer's hard drive directly to the target computer).

Refer to page 17 for a detailed, step-by-step guide.

Scenario 2: Migration from a separate hard drive (for example, from a broken computer)

When the old computer is broken, cannot be turned on, or its Windows OS is malfunctioning (VSS failure, WMI problem etc.), the transfer can still can be performed – directly off the hard drive of the source computer. The hard drive may be connected either internally or externally (using a USB adapter or hard drive enclosure).

Refer to page 18 for a detailed, step-by-step guide.

Scenario 3: Transfer via intermediate storage location - without a direct connection (such as with a USB external hard drive, or via a network share)

This scenario allows to perform the transfer not directly, but instead in two separate phases: first, capture the source machine into a container file, stored on a network storage, external hard drive or other storage media and then –deploy the captured container onto the target machine. This allows to perform the transfer even when the source and the target machines are not available at the same time, when the Phase Two need to be delayed or if network storage or external physical storage is the desired way of transfer.

See page 21 for a detailed, step-by-step guide.

Scenario 4: Transfer from a physical machine to a Virtual Machine (P2V)

The Target may be not a Physical, but a Virtual machine. This includes migrating to Hyper-V, VMWare, Cloud and VDI environments. In order to perform such migration, use the instructions for Scenario 1 or Scenario 3, depending on connection type.

Scenario 5: Reinstalling or upgrading Windows on same computer

Used for situations when a new Windows is installed on an existing, personalized machine.

This upgrade is performed similarly to **Scenario 3**, first capturing the original Windows into a container file, then installing the new Windows on the machine, and finally restoring applications, settings and files back from the container.

See page 26 for a detailed, step-by-step guide.

Scenario 6: Restoring from a 3rd party backup

Used to recover from an existing image backup, created by a 3rd party Backup product. Once the 3rd party backup image is mounted, use Scenario 2 to perform the migration.

See page 26 for a detailed, step-by-step guide.

Additional Options

Each of the scenarios above can be modified with additional options below.

SSD Mode (split transfer between a small SSD and a large HDD)

When the target computer has a smaller, faster SSD for OS and applications, and a larger, slower HDD for data, the transfer must take that into account – transferring application configurations to the SSD, and the bulk of the data to the HDD. SSD mode is enabled in the appropriate "Target Selection" screen – as instructed by the guide.

Transferring profiles, settings and data - but NOT applications

In all scenarios, the product allows to transfer only profiles, settings and data – without transferring applications. An example of such transfer is when migration is performed to a machine which already has a corporate standard "golden image", where applications are already installed, but data and settings are missing. This option is toggled by a switch on the main Scenario Selection screen on the Target computer. It is available in all scenarios.

Selective Migration

In all of the scenarios above, the product allows to perform a selective migration: transferring only chosen parts of the source system, instead of all of its applications, settings and files.

Command Line Execution

Zinstall Migration Kit Pro may also be executed from a command line interface, instead of manual GUI selection.

This allows for automation of the migration process, as well as for granular excludes of files, folders and applications that should not be transferred.

Post-migration adjustment rules

In addition to configuring the migration itself, you can define post-migration adjustments. These are special rules for string replacement in files of your choice. For example, you can set a rule to adjust configuration files by changing the old computer name to the new computer name or the old computer IP address to a new IP address.

Performing the Transfer

IMPORTANT NOTE for migrations in a **domain** environment:

If your computers are in a domain, make sure to add the target machine to the domain before starting the migration. If you are moving between two machines, make sure to also log in as the **same domain user** on both machines. During the transfer, make sure the target machine has connectivity to the domain (i.e., not disconnected from the network).

Scenario 1: Migration from one computer to another

On the SOURCE computer

.

1. Run and activate the software on the source computer. You will first see the main migration screen. Select the first option, "Moving between two machines" and click Next.

Zinstall	6.2.4.4
 Scenario selection Machine selection Prerequisite check Source selection Target selection Configuration Summary Migration 	Scenario selection Select the migration scenario Image: Moving between two machines Transfer from one machine to another over the network Image: Moving from old hard drive Transfer from old hard drive Transfer from old hard drive Transfer from old hard drive connected internally or externally Image: Moving from machine to container Create an image of current machine for backup and migration Image: Moving from container to machine Transfer from a backup or VM container to this machine Image: Moving from windows.old folder Moving from windows.old folder
	Select migration type Migrate programs, settings, and user profiles

2. On the next screen, select "This is the source computer" and click Next.

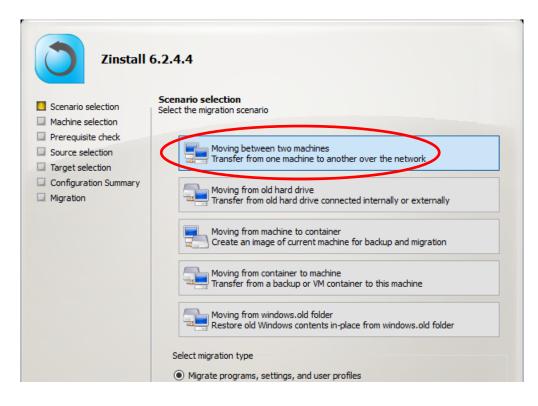
Zinstall	
Scenario selection	Machine selection Is this the source or target machine?
Machine selection	2 dis dio Solico di Calgorindenno.
Prerequisite check	
Source selection	This is the source computer
Target selection	
Configuration Summary	
Migration	This is the target computer

- 3. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.
- 4. The following screen will appear, which means the SOURCE computer is ready to start the transfer. Do not exit the software until the migration is complete. You now need to continue the guide, running the software on the target computer

Zinstall	
 Scenario selection Machine selection Prerequisite check Source selection Target selection Configuration Summary Migration 	Migration source Source machine is ready. To connect, run Zinstall on Target machine. Waiting for connection from Target machine
	< Back Finish Cancel

On the TARGET computer

1. Run and activate the software on the target computer. You will first see the main migration screen. Select the first option, "**Moving between two machines**" and click Next.



2. On the next screen, select "This is the target computer" and click Next.

Scenario selection	Machine selection Is this the source or target machine?	
Machine selection		
Prerequisite check	Constant Con	
Source selection	This is the source computer	
Target selection		
Configuration Summary		
Migration	This is the target computer	

- 3. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.
- 4. Make sure you have connected the computers together. You can connect your computers by either:
 - a. Connecting each of the computers to same Internet router or home / office network.
 - b. Connecting one computer to another directly with a network (Ethernet) cable.
 NOTE: If you only have one Ethernet cable, you can disconnect it from your Internet router and use it to connect one computer to another directly

c. See below for a picture of what a network / Ethernet / LAN cable you need looks like:



- 5. You do not have to perform any configurations just plug the cables in, and Zinstall software will automatically configure the connection.
- After the computers are properly connected, they will find each other on the network. You will know that this has happened when a green checkmark appears on the old computer. This may take a few minutes.

Note – Manual source selection:

If the computers are not located on the same network segment, automatic discovery will not find the old computer. In this case, you can specify the source computer's IP address manually to force discovery.

To do that, switch the toggle at the bottom of the screen to its second position,

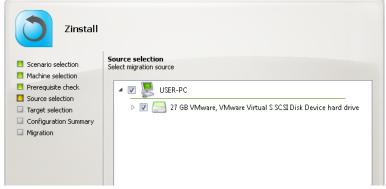
"Manually enter source machine IP address".

Enter the IP address of the source server and click "Connect".

As long as the source computer is accessible from the new one, it will be detected as migration source and appear above.

 Automatically detect available source machines 	🔊 Advanced	🔹 <u>R</u> efresh
O Manually enter source machine IP address:		E Connect
< <u>B</u> ack	Next >	Cancel

- IMPORTANT: Note regarding wireless connections:
 Zinstall software supports performing a migration via a wireless network connection.
 However, wireless connections significantly increase transfer times, and may
 disconnect spontaneously, preventing Zinstall software from completing the migration
 or even causing the migration process failure.
 It is strongly recommended to use a wired connection instead whenever possible. To
 ensure the computers connect using the wired connection, wireless should be disabled
 on the both computers.
- Once the computers are connected and have located each other, you will see the Source computer's description appears on the "Source selection" screen.
 NOTE: The "handshake" may take several minutes until the computers connect over the network, during which time the description area will remain blank.
- 9. If you need to perform a Selective Migration, see the "Selective Migration" section below the scenarios in this guide.



- 10. Once you have completed the Source selection, click Next to continue.
- 11. You will see the "SSD mode" option screen. If you require a hybrid SSD storage support, see "Additional Options: SSD Mode" below for more information. Otherwise, simply click Next to continue.
- 12. You will see the "Configuration Summary" screen. Review the summary and press the "Go" button to start the migration when ready.

During the migration process Zinstall shows how migration stages advance. No user action is required at these stages.

IMPORTANT: Do not use the computers until you see a message on the TARGET computer confirming that the migration is complete! Even if the progress bar does not advance for a long time, or the computer's display becomes black – this does not mean the computer is stuck. The entire transfer process may take a very long time – it's depending on many several factors, mainly – of the Source computer - such as hard drive condition and bad sectors, hard drive speed, overall performance etc.

Accordingly, the progress bar may not show progress for hours – it is normal.

If, after a while, the screen on the Target computer's screen becomes black, that's OK. You can move the mouse to turn it back on and see the progress.

Be patient and wait for the entire migration process to be completed:



Once you see the message above on the new computer, the migration is complete, and you can safely exit the software on the SOURCE computer as well, by pressing the "Cancel" button.

Scenario 2: Migration from a separate hard drive (for example, from a broken computer)

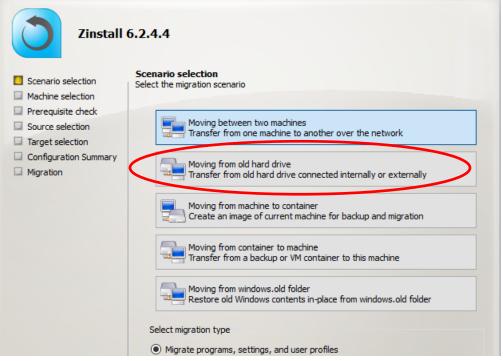
To connect the SOURCE internal hard drive externally to the TARGET computer, you need a USB hard drive enclosure, or any suitable adapter (USB / eSATA / Firewire). An adapter can be purchased separately (usually available at a computer store for a few dollars).

IMPORTANT: The Source hard drive should contain the entire Source system. Just copying some of the files – even when performed using some of the third-party hard drive cloning software / backup products – may not be enough to perform a migration. If the entire hard drive needs to be copied before the migration, it is recommended to use the Zinstall HDD product for this purpose.

To perform the transfer:

- 1. Turn off the SOURCE computer
- 2. Dismount the SOURCE hard drive from the SOURCE computer
- 3. Connect the SOURCE hard drive to the TARGET computer either internally, or using an external enclosure / adapter
- 4. Turn the TARGET computer on, and start Windows

5. Run and activate the software on the target computer. You will first see the main migration screen. Select the second option, "**Moving from old hard drive**", and click Next.



- 6. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.
- 7. You will next see the will see the "Source selection" screen. The source hard drive will appear in the description area. If more than one hard drive is connected, select the appropriate source hard drive from the list.
- 8. If you need to perform a Selective Migration, see the "Selective Migration" section below the scenarios in this guide.

Zinstall	
 Scenario selection Machine selection Prerequisite check Source selection Target selection Configuration Summary Migration 	Source selection Select migration source USER-PC V C SCSI Disk Device hard drive

- 9. Once you have completed the Source selection, click Next to continue.
- 10. You will see the SSD mode option screen. If you require a hybrid SSD storage support, see "Additional Options: SSD Mode" for more information. Otherwise, simply click Next to continue.

11. You will see the Configuration Summary screen. Review the summary and press the "Go" button to start the migration when ready.

IMPORTANT: During the migration process Zinstall Migration Kit Pro shows how migration stages advance. No user action is required at these stages.

You do not have to remain sitting near the computers – the entire process may take quite a while (sometimes, many hours are required). This depends on several factors, such as the condition of the SOURCE hard drive and the SOURCE computer, connection type (wired or wireless), connection speed (10Mbit/s, 100Mbit/s, 1Gbit/s), processing power of the computers and, of course, the amount of data to be transferred.

IMPORTANT: Do not use the computers until you see a message on the TARGET computer confirming that the migration is complete! Even if the progress bar does not advance for a long time, or the computer's display becomes black – this does not mean the computer is stuck. If the screen on the TARGET computer becomes black, move the mouse to turn it back on and see the progress.

Be patient and wait for the entire migration process to be completed:



Once you see the message above on the new computer, the migration is complete. Press "Reboot" to finish the process.

Scenario 3: Transfer via intermediate storage location - without a direct connection (such as with a USB external hard drive, or via a network share)

Use this scenario to perform the migration in two stages:

- First, capturing the source machine into a container file, stored on network storage, external hard drive or other storage media.
- Then, deploying the captured container onto the target machine.

This allows to perform the transfer even if both machines are not available at the same time, or if network storage or external physical storage is the desired way of transfer.

On the SOURCE computer

1. Run and activate the software on the source computer. You will first see the main migration screen. Select the third option, "Moving from machine to container", and click Next.

Zinstall	6.2.4.4
 Scenario selection Machine selection Prerequisite check Source selection Target selection Configuration Summary Migration 	Scenario selection Select the migration scenario Image: Moving between two machines Transfer from one machine to another over the network Image: Moving from old hard drive Transfer from old hard drive connected internally or externally Image: Moving from machine to container Create an image of current machine for backup and migration Image: Moving from container to machine Transfer from a backup or VM container to this machine Image: Moving from windows.old folder
	Select migration type Migrate programs, settings, and user profiles

2. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.

3. On the next screen, select the volumes you would like to capture into the container. On a typical machine, that would be Volume C (it will be selected automatically).

Zinstall Scenario selection	Source selection Select migration source
Machine selection	
Prerequisite check	V 🗹 🛃 USER-PC
Source selection	✓ ☑
Configuration Summary Migration	Volume Unused (System Reserved) 69 MB free of 104 MB Volume C:\ 78 GB free of 128 GB Volume Unused 105 MB free of 471 MB

4. If you prefer to leave some of your files or folders out of the container, you can do that by pressing the Advanced button. You will be able to pick which files and folders get excluded from the container (not captured), or do the same for specific file extension or file size limits. If you just want to capture everything, you do not need to go into the Advanced menu.

Machine to Container Advanced Options						- 🗆	×
Volume: C:\ 🕶					Exclude by extension		
Name temp Users All Users Default Default.migrated Default User Default User User User User User User User	Size	Type File Folder File Folder File Folder File Folder File Folder File Folder File Folder	Date Modified 10/25/2017 8:01:14 AM 10/24/2017 7:12:27 AM 7/16/2016 5:40:43 AM 2/27/2017 8:08:52 AM 2/27/2017 8:06:11 AM 7/16/2016 5:40:43 AM 2/27/2017 8:07:46 AM 10/24/2017 7:12:21 AM	^	Exclude by extension (e.g. *.mp4) Add Excluded file extensions:		nove
AppData AppDication Data Application Data Select a file or folder to exclude and click Excluded folders and files:	k Add	File Folder File Folder	2/27/2017 8:04:12 AM 2/27/2017 8:04:01 AM	∨ Remove			
C:\ESD C:\temp C:\Users\user\Documents\Alice's Adventure	s in Wonderland.	odf			Exclude by file size		GB
					ОК	Cancel	

5. On the next screen, click Browse to select the location where the container file will be created:

Zinstall	
 Scenario selection Machine selection Prerequisite check Source selection Target selection Configuration Summary Migration 	Target selection Migration target selection
C	Specify the path of the virtual container: Browse Cancel

6. Once you have selected the location, you can optionally also choose to encrypt the container, by switching the toggle at the bottom to "Create encrypted container" and entering a password.

Specify the path of	the container:
Container (E:\2.vn	ndk) Br <u>o</u> wse
 Create standard 	d container
Create encrypte	ed container
Enter passv	word:
Verify pass	word: ••••••
	< <u>B</u> ack <u>N</u> ext > Cancel

Click Next to go to the Configuration Summary screen. Review the summary and press the "Go" button to start the container creation process when ready.

On the TARGET computer

1

1. Run and activate the software on the target computer. You will first see the main migration screen. Select the fourth option, "**Moving from container to machine**" and click Next.

Zinstall	6.2.4.4
 Scenario selection Machine selection Prerequisite check 	Scenario selection Select the migration scenario
Source selection Target selection Configuration Summary Migration	Moving between two machines Transfer from one machine to another over the network Moving from old hard drive Transfer from old hard drive connected internally or externally
	Moving from machine to container Create an image of current machine for backup and migration
	Moving from container to machine Transfer from a backup or VM container to this machine
	Moving from windows.old folder Restore old Windows contents in-place from windows.old folder Select migration type
	 Migrate programs, settings, and user profiles

2. You will be taken to the "Prerequisite check" screen. If all prerequisites are verified successfully, click Next to continue. Otherwise, address the issues found and start the process again.

3. On the next screen, browse to locate the container you will be deploying on this machine:

Zinstall	
Scenario selection	Source selection Select migration source
Machine selection	Select higration source
Prerequisite check	
Source selection	
Target selection	
Configuration Summary	
Migration	
	Specify the path of the virtual container:
(Browse
	< Back Music Cancel

- 4. If you need to perform a Selective Migration, see the "Selective Migration" section below the scenarios in this guide. Otherwise, click Next.
- 5. You will see the SSD mode option screen. If you require a hybrid SSD storage support, see "Additional Options: SSD Mode" for more information. Otherwise, simply click Next to continue.
- 6. You will see the Configuration Summary screen. Review the summary and press the "Go" button to start the migration when ready.

IMPORTANT: During the migration process Zinstall Migration Kit Pro shows how migration stages advance. No user action is required at these stages.

You do not have to remain sitting near the computers – the entire process may take quite a while (sometimes, many hours are required). This depends on several factors, such as the condition of the SOURCE hard drive and the SOURCE computer, connection type (wired or wireless), connection speed (10Mbit/s, 100Mbit/s, 1Gbit/s), processing power of the computers and, of course, the amount of data to be transferred.

IMPORTANT: Do not use the computers until you see a message on the TARGET computer confirming that the migration is complete! Even if the progress bar does not advance for a long time, or the computer's display becomes black – this does not mean the computer is stuck. If the screen on the TARGET computer becomes black, move the mouse to turn it back on and see the progress.

Be patient and wait for the entire migration process to be completed:



Once you see the message above on the new computer, the migration is complete, and you can safely exit the software on the SOURCE computer as well, by pressing the "Cancel" button.

Scenario 5: Reinstalling or upgrading Windows on same computer

Use this scenario to reinstall Windows on a computer, or to upgrade a computer from one Windows version to another in-place (for example, upgrade an Windows 7 machine to Windows 10).

If you have already installed the new Windows on the new computer (without backing up the original Windows):

If you have already installed the new Windows, without capturing the original installation, you still have a chance to migrate. Select the last option – "Windows 7, Windows 8 in-place migration. If your Windows installation has not completely wiped the original data, Zinstall will locate the Windows.old folder and migrate from it.

If you have not yet installed the new Windows, use the following steps instead for a safer transfer:

If you have not installed the new Windows yet:

- First, capture the existing Windows into a container file, stored on an external hard drive, on network storage, or any other storage media. Refer to Scenario 3 – Source computer for detailed instructions.
- 2. Then, install the new Windows on the machine.
- Finally, deploy the captured container onto the target machine. Refer to Scenario 3 – Target computer for detailed instructions.

Scenario 6: Restoring from a 3rd party backup

Zinstall can be used to perform a restore of programs, settings and files from any mountable 3rd party image backup.

To perform the restore:

- Mount the 3rd party backup image as a virtual drive (refer to the 3rd party backup's instructions on doing this)
- Once the 3rd party backup image is mounted as a drive, use Scenario 2 to perform the migration

 selecting the mounted backup drive as your migration source.

Additional Options

SSD mode

If the Target computer has a hybrid SSD-HDD configuration, e.g. a smaller SSD for OS and applications, and a larger HDD for data, you can use the dedicated SSD migration mode. In this mode, migrated data will be put onto the larger HDD drive, while the application settings and user settings will be integrated into the OS on the smaller SSD drive.

This scenario is not a separate process. Rather, in each of the other scenarios, you will be given an option to use SSD Mode - after the Target selection screen.

In order to initiate SSD Mode, select the second option – "**SSD Mode / Optimized target selection**". Then, select the larger drive from the dropdown list below. Once done, click Next and continue with the appropriate transfer scenario according to its appropriate section of this guide.

Zinstall Scenario selection Machine selection	Target selection Required space: 21 GB Please select migration mode
Prerequisite check Source selection Target selection Configuration Summary Migration	Typical Drive C:\ (4,777 MB free of 25 GB) S5D Mode / Optimized target selection Please select target below
	Drive E:\ (499 GB free of 499 GB)
	<back next=""> Cancel</back>

Transferring profiles, settings and data – but NOT applications

In all scenarios, the product allows to transfer only profiles, settings and data – without transferring applications. An example of such transfer is when migration is performed to a machine which already has a corporate standard "golden image", where applications are already installed, but data and settings are missing.

This scenario is not a separate process. Instead, this option is available in all scenarios. It is toggled by a switch on the main Scenario Selection screen on the Target computer.

To perform a migration WITHOUT migrating programs (but WITH migrating profiles, settings, and files) – switch the selection to the second option, "Migrate settings and user profiles only".

Zinstall	6.2.4.4
Scenario selection	Scenario selection Select the migration scenario
 Machine selection Prerequisite check 	
Source selection Target selection	Moving between two machines Transfer from one machine to another over the network
 Configuration Summary Migration 	Moving from old hard drive Transfer from old hard drive connected internally or externally
	Moving from machine to container Create an image of current machine for backup and migration
	Moving from container to machine Transfer from a backup or VM container to this machine
	Moving from windows.old folder Restore old Windows contents in-place from windows.old folder
	Select migration type
	Inigrate programs, settings, and user profiles
	O Migrate settings and user profiles only
	Migrate settings and user profiles with OVERWRITE option

FOR ADVANCED USERS ONLY: If you are synchronizing two computers with the same user, where the source computer has the more updated profile, you can choose the 3rd option to OVERWRITE current user's profile using the source user profile. DO NOT select this option if you are not sure about this.

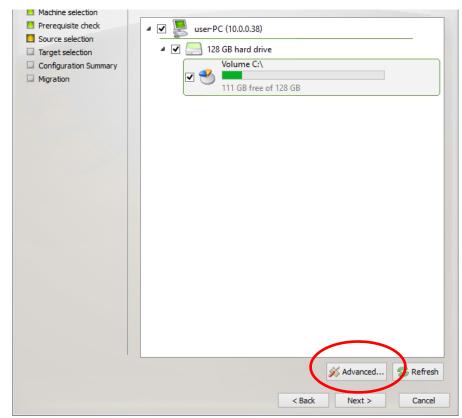
Selective Migration

In all of the scenarios above, the product allows to perform a selective migration: transferring only chosen parts of the source system, instead of all of its applications, settings and files.

IMPORTANT: This is an advanced configuration. Defining selective rules incorrectly may lead to inconsistent migration results. **If you are not sure** about your selective migration, contact a migration specialist before proceeding.

To perform a Selective Migration in one of the scenarios above:

 During migration configuration on the new computer, press the "Advanced" button. It will be present on the "Source Selection" screen when migrating over the network, and on the "Target Selection" screen when migrating from a container / folder:



2. The "Settings" menu will open. Press the "Activate Advanced Settings Mode" button to initiate selective migration options.

NOTE: This process will take a while to complete. Wait until you see the selection list to continue.

Settings	×	? ×
	Start Files and Directories Programs User Profiles Registry	
Selective Migration	Activate Advanced Settings Mode	
	OK	Cancel

3. Once the initialization is complete, Selective Migration options become available in 4 separate tabs: **Files and Directories**, **Programs**, **User Profiles**, and **Registry**.

Settings	8				
	Start Files and Directories Programs User Profiles Registry Creek programs in the list to excude from migration Select All Clear All				
Selective	Date Program Version Path Action				
Migration	2014-08-16 23:20:33 Google Chrome 36.0.1985 C:\Program Files (x86)\Google\ Include 2014-06-23 18:11:10 Google Talk Plugin 5.4.2.18903 Include				
	2014-06-24 22:18:00 Google Update Helper 1.3.24.15 Include 2012-11-09 17:19:04 Intel(R) Control Center 1.2.1.1008 C:\Program Files (x86)\Intel\Int				
	2012-11-09 17:16:55 Intel(R) Management Engine Co 8.1.0.1252 C:\Program Files (x86)\Intel\Int Include				
	Image: Weight of the second				
	√ 2013-06-06 17:29:00 Intel(R) Processor Graphics 9.17.10.2849 C:\Program Files (x86)\Intel\Int Include √ 2012-11-09 17:24:16 Intel(R) PROSet/Wireless for Blue 15.5.0.0344 C:\Program Files\Intel\ Include				
	Revert Program Rules Apply Program Rules				
	Load Save				
OK Cancel					

4. Files and Directories selection:

In the Files and Directories tab, Exclude and Include rules can be defined on chosen files or folders.

- a. To add a new rule, browse for, or type in, the path in the path input on the top right, and select Exclude / Include on the left. Then, click the "Add Rule" button.
 - a. If you are typing the path manually, make sure to type in the full path, including the drive letter
 - b. If you are browsing for the path, make sure to toggle "Directory" or "File" in the left combo box, and choose the appropriate drive letter from the combo box after the word "volume":

Use add and re	move buttens to define	system migration rules. Click Apply File Rules to approve your changes.	\frown
Exclude	Directory 🔻 on vol	ne E:\ Type or click Browse	Browse

- b. An Exclude rule means that the file or folder will not be transferred to the target system. It will appear with an unchecked check box in the Type column, and with the word "Exclude" in the Action column. To toggle the rule to Include, just click the checkbox on the left. <u>For example:</u> excluding the folder "E:\temp" means that "E:\temp" and all of its contents will not be transferred (while everything else will be).
- c. An **Include rule** means that the file or folder will be transferred to the target system, even if their parent folders have been excluded. It will appear with a checked check box in the Type column, and with the word "Include" in the Action column. To toggle the rule to Exclude, just click the checkbox on the left.

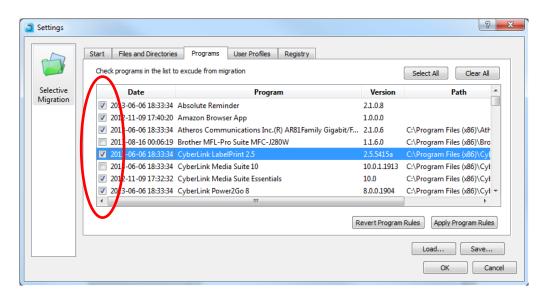
<u>For example:</u> **including** "E:\temp\subfolder" means that it will be transferred, even though the rest of "E:\temp" will not because of the exclude rule in the previous section.

		Action
Direct E	\Temp\	Exclude
🔽 Direct E	\Temp\Subfolder	Include

5. Programs selection:

In the Programs tab, you can prevent programs from transferring to the target system.

- a. By default, all programs are marked with a checkmark on the left, meaning that they all will be transferred to the target system. You can also change click the "Clear All" button if you prefer to start with no programs being transferred.
- b. By click the checkmark on the left of each program description, you can toggle whether it will or will not be transferred to the target system.
- c. If you choose to uncheck a program, for which the path to its files is unknown, you will be prompted to provide said path. If you do not know where the files are stored, cancel that prompt. In such case, some of the files may be transferred, but the program will still be excluded from the target system.



6. At any point, you can save your current rules into a configuration file, by pressing the "Save..." button. You can then load the rules you have defined at a later point, or if you decide to run this migration again.

It is strongly recommended to save your rules before starting the migration.

	Start Files and Directorie			
	Check programs in the list t	o excude from migration		Select All Clear All
Selective Migration	Date	Program	Version	Path 🔺
	2013-06-06 18:33:34	Absolute Reminder	2.1.0.8	
	2012-11-09 17:40:20	Amazon Browser App	1.0.0.0	
	2013-06-06 18:33:34	Atheros Communications Inc.(R) AR81Family Gigabit/F	2.1.0.6	C:\Program Files (x86)\Ath
	2013-08-16 00:06:19	Brother MFL-Pro Suite MFC-J280W	1.1.6.0	C:\Program Files (x86)\Bro
	2013-06-06 18:33:34	CyberLink LabelPrint 2.5	2.5.5415a	C:\Program Files (x86)\Cyl
	2013-06-06 18:33:34	CyberLink Media Suite 10	10.0.1.1913	C:\Program Files (x86)\Cył
	2012-11-09 17:32:32	CyberLink Media Suite Essentials	10.0	C:\Program Files (x86)\Cył
	2013-06-06 18:33:34	CyberLink Power2Go 8	8.0.0.1904	C:\Program Files (x86)\Cył 🔻
	•	III		4
			Devent Deserver	Rules Apply Program Rules
		Le contra de la co	Revert Program	Apply Program Rules
				Load Save

7. Once you have defined the rules as needed, click the "OK" button to return to the Source Selection screen and continue with the migration process.

Command Line Execution

General command line flags:

serial= <serial_number></serial_number>	Specify the Serial Number, without dashes or spaces.			
email= <email_address></email_address>	Specify the email address (use if support is contact required).			
eula=yes	Confirm acceptance of EULA.			
method=[m2c c2m]	Scenario type. m2c: Machine to container c2m: Container to machine			
container= <full_path_where_to_create_container>:</full_path_where_to_create_container>				

Full path where the container will be created (m2c), or path to existing source container (c2m). Expected to exist and be accessible.

--enablelog=yes Create a short text log in the execution path.

Exclude rules flags:

Machine-to-Container mode exclude modifiers:

Use these to exclude some contents from getting captured into the container. **Only valid in m2c mode**.

```
--m2cignoreotherprofiles=yes
```

Only capture the current user profile folder (skip other user profile folders).

--m2c rules=<full path to folder exclude rules file>

Path to a file specifying a list of folder / file paths to exclude from the container. One entry per line. Can be exact paths or wildcard paths.

Container-to-Machine mode exclude modifiers:

Use these to exclude some contents from getting deployed to the machine. **Only valid in c2m mode**.

```
--c2mignoreotherprofiles=yes
```

Only deploy the current user profile (skip other user profiles).

--c2m program rules=<full path to program exclude rules file>

Path to a file specifying a list of programs to exclude from container deployment. One entry per line. Should use wildcards unless the name is full and exact.

Examples - general:

To migrate a machine to a container:

```
zinstall_migration_kit_pro.exe --serial=<serial_number>
--email=<email_address> --eula=yes --method=m2c
--container=<full_path_where_to_create_container> --enablelog=yes
```

```
zinstall_migration_kit_pro.exe
--serial=AAAABBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ --email=it@example.com
--eula=yes --method=m2c --container=c:\temp\container.vmdk
--enablelog=yes
```

To migrate from a container to a machine:

```
zinstall_migration_kit_pro.exe --serial=<serial_number>
--email=<email_address> --eula=yes --method=c2m
--container=<full_path_where_to_create_container> --enablelog=yes
```

zinstall_migration_kit_pro.exe
--serial=AAAABBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ --email=it@example.com
--eula=yes --method=c2m --container=c:\temp\container.vmdk
--enablelog=yes

<u>To run the product in interactive mode (GUI wizard), but automatically enter the serial number and accept EULA:</u>

zinstall_migration_kit_pro.exe --serial=<serial_number>
--email=<email address> --eula=yes

```
zinstall_migration_kit_pro.exe
--serial=AAAABBBBCCCCDDDDEEEEFFFGGGGGHHHHJJ --email=it@example.com
--eula=yes
```

Examples – selective migration: To migrate a machine to a container, excluding a set list of folders:

```
zinstall_migration_kit_pro.exe
--serial=AAAABBBBCCCCDDDDEEEEFFFFGGGGGHHHHJJ --email=it@example.com
--eula=yes --method=m2c --container=c:\temp\container.vmdk
--enablelog=yes --m2c_rules=c:\temp\container-excludes.txt
```

Where the container-excludes.txt file can look like this:

```
C:\ESD
C:\temp
C:\Databases\*\Logs
```

C:\Databases*\Logs <- This is a wildcard matching C:\Databases\DB1\Logs, C:\Databases\DB2\Logs and so on

To migrate a machine to a container, excluding a set list of folders and excluding all other user profile folders except for the currently logged in user:

zinstall_migration_kit_pro.exe --serial=AAAABBBBCCCCDDDDEEEEFFFGGGGGHHHHJJ --email=it@example.com --eula=yes --method=m2c --container=c:\temp\container.vmdk --enablelog=yes --m2c_rules=c:\temp\programs-excludes.txt --m2cignoreotherprofiles=yes Zinstall Migration Kit Pro User Guide

To migrate from a container to a machine, excluding a set list of programs:

```
zinstall_migration_kit_pro.exe
--serial=AAAABBBBCCCCDDDDEEEEFFFGGGGGHHHHJJ --email=it@example.com
--eula=yes --method=c2m --container=c:\temp\container.vmdk
--enablelog=yes --c2m_rules=c:\temp\programs-excludes.txt
```

Where the programs-excludes.txt file can look like this:

*Office*2013*	<- This excludes Microsoft Office Professional 2013 Click-to-Run,
	Microsoft Office Home 2013 and so on.
iTunes	<- This excludes iTunes. Make sure to put wildcards before and after, to
	match other parts of a typical name, such as a specific version number.

To migrate a machine to a container, excluding a set list of programs and excluding all other user profiles except for the currently logged in user:

```
zinstall_migration_kit_pro.exe
--serial=AAAABBBBCCCCDDDDEEEEFFFGGGGGHHHHJJ --email=it@example.com
--eula=yes --method=c2m --container=c:\temp\container.vmdk
--enablelog=yes --c2m_rules=c:\temp\programs-excludes.txt
--c2mignoreotherprofiles=yes
```

Post-migration adjustment rules

In addition to configuring the migration itself, you can define post-migration adjustments. These are special rules for string replacement in files of your choice. For example, you can set a rule to adjust configuration files by changing the old computer name to the new computer name or the old computer IP address to a new IP address.

To access the post-migration rules screen, open the Advanced menu on the Target, and go to the Post Migration Rules tab there.

0		:	Settings		? ×
Selective Migration	Config Patcher ✓ Enable post migration adjustments Use add and remove buttons to define post migrat Within these files: C:\ServerConfigs*.ini Replace ✓ CurrentOS=2003	ion rules. Click Ap	pply Rules to approve your chang with CurrentOS=2012		not including subfolders
			1	Remove All	Remove Rule Add Rule
Post Migration	Path	Action	What	With	Туре
Rules	C:\MyApplication\Configs\main.cfg	Replace	192.168.1.42	192.168.2.142	not including subfolders
	C:\Program Files (x86)*.cfg *.config *.ini	Replace	%OLD_COMPUTERNAME%	%COMPUTERNAME%	including subfolders
	C:\Program Files*.cfg *.config *.ini	Replace	%OLD_COMPUTERNAME%	%COMPUTERNAME%	including subfolders
	C:\ServerConfigs*.ini	Replace	CurrentOS=2003	CurrentOS=2012	not including subfolders
					Revert Rules Apply Rules
					Load Save
					OK Cancel

Click the "Enable post migration adjustments" to be able to add rules there.

You can define the file or folder path which you want to adjust, the string to replace and what to replace it with.

When you define the path to replace, it should be a full path (starting with a drive letter such as C:\...).

It should end with either a file name (for a single file), or a mask for multiple files / multiple folders.

For example,

C:\ServerConfigs*.iniwill match all files with extension .ini in the folderServerConfigs (and its subfolders if enabled)

C:\ServerConfigs*.* will match all files in the folder ServerConfigs – we do not recommend doing this since this could match a lot of files, especially in folders such as Program Files, and lead to a long execution time

C:\ServerConfigs*.ini|*.cfg|*.conf will match all files with extension either .ini or .cfg or .conf

In addition to general strings, you can use the following special strings:

COMPUTERNAME

WINDIR

PROGRAM FILES

PROGRAM FILES X86

COMMON APPDATA

And these strings will use the old server's environment:

OLD COMPUTERNAME

OLD WINDIR

OLD PROGRAM FILES

OLD PROGRAM FILES X86

OLD COMMON APPDATA

In addition to adding rules in the user interface, you can also save them to a file (using the Save button).

If that file is placed in the same folder as the Migration Kit Pro executable, those rules will be added automatically, which can be used to replicate these rules on different migration runs.

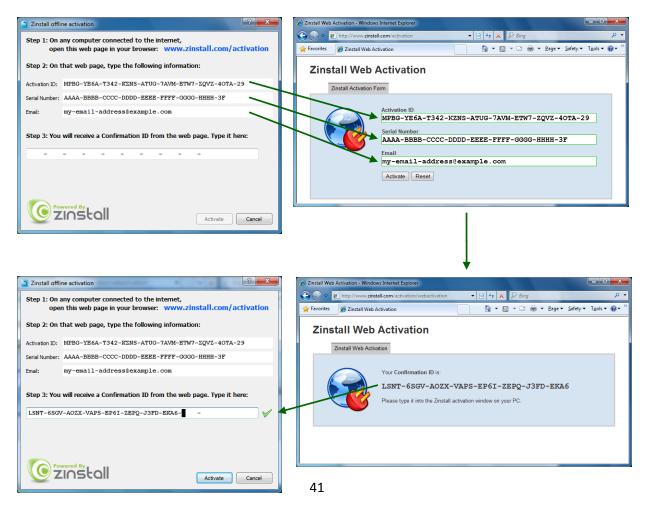
Alternatively, you can also manually load the rules file using the Load button.

Appendix A

Web Activation

If a computer is not connected to the Internet, Zinstall Migration Kit Pro will be unable to activate itself automatically. In this case, Zinstall Migration Kit Pro will prompt you to perform a Web Activation manually.

- 1. On any computer with an Internet connection, open a browser (for example, Internet Explorer)
- Go to<u>www.zinstall.com/activation</u> It doesn't matter which computer you use for this
 - you can even use your phone.
- 3. In browser Web Activation form, enter the Activation ID, Serial Number and email as they are shown in the running Zinstall Migration Kit Pro window.
- 4. Click *Activate* in the browser.
- 5. The Web Activation form will show you a Confirmation ID.
- 6. Enter this Confirmation ID in the running Zinstall Migration Kit Pro window.
- 7. Click Activate in the running Zinstall Migration Kit Pro window.



CHKDSK

To perform a Windows CHKDSK hard drive consistency check, and fix possible errors, do the following:

On Windows XP / Vista / 7:

- 1. Open Start Menu, then "My Computer"
- 2. Right click on your hard drive, select "Properties"
- 3. Go to the "Tools" tab
- 4. In the "Error Checking" box, click on "Check Now"
- 5. Make sure both options are checked: "Automatically fix file system errors" and "Scan for and attempt recovery of bad sectors"
- 6. Click Start
- 7. If you are prompted to reboot, accept.

On Windows 8 / 10:

- 1. Right-click on the Start button (bottom-right corner of the screen)
- 2. Select "Command Prompt (Admin)"
- 3. If prompted to allow the application to run, click Yes.
- 4. In the window that opens (black window, white text), type the following command. Instead of F:, type in the drive that you want to check (could be C:, D:, E:, F: etc.) Make sure to type a colon (":") after the drive letter:
 - chkdsk /f /r /x F:
- 5. Press enter
- 6. If you are prompted to reboot, accept.

If you have several hard drives, you need run CHKDSK for each of them.

Converting a FAT32 drive to NTFS file system

If some of the drives on your SOURCE computer are using the FAT32 file system, they should be converted into the NTFS file system in order to ensure a reliable transfer. Do the following for each of the FAT32 partitions:

- Open a command prompt by going to Start Menu -> All Programs -> Accessories -> Command Prompt
- 2. In the command prompt, type the following command and press enter: convert c: /FS:NTFS
- If you are asked to provide a "volume label", type in the label the drive has as seen in My Computer. For example, if My Computer has "Drive C: [My Drive]", you need to type in "My Drive".
- 4. Answer YES to question about "volume in use, do you wish to force?"

- 5. Answer YES to question about "system volume, schedule for next boot?"
- 6. Restart your computer
- 7. When windows begins to start , let it do a disk check (it will show the message "the type of the file system is FAT, press any key to cancel disk check" do NOT press any key at this stage)
- 8. Once a disk check is done, conversion to NTFS will begin. This may take some time. Wait for it to finish

Troubleshooting Guide

Message Codes

Message Code	Troubleshooting instructions
10	A currently running application is preventing Zinstall from operating properly. Close down all applications running on your computer and run Zinstall Migration Kit Pro again. If you are unsure which application to close - restart your computer and run Zinstall again.
11	No activations remaining Your license has been activated on too many computers, and cannot be activated on more computers. Another license is required.
13	 You are trying to activate the wrong product with your serial number / Anti Virus or Firewall blocking Zinstall from loading Make sure the serial number you are using fits the product you are trying to activate it with. For example, if you are activating Zinstall WinWin, make sure you are using a WinWin serial. Make sure antiviruses and firewalls are uninstalled or fully disabled.
122	In-place upgrade attempt without a Windows.old folder You have chosen the "in-place upgrade" scenario, however your Windows does not have an old Windows.old archive. Without Windows.old, there is nowhere to migrate from. If you have previously created a container of your original Windows, you need to use the "Migration from container to machine" scenario to continue.
190 191	Critical Windows service is corrupted on your computer This message code appears when an essential standard Windows component (WMI) is either malfunctioning or corrupted. Although such malfunctioning / corrupted component is not part of Zinstall software, it needs to be fixed in order to allow proper execution of Zinstall within the Windows installation. When this message is shown, it also includes detailed information about the name of the malfunctioning component and a failure code which can be used for troubleshooting. Workaround: If you cannot fix the WMI issue itself, you can perform a workaround migration, using a

	USB external hard drive – and bypassing WMI. Here is how:
	 On your OLD computer, download the Microsoft Disk2vhd utility from this link: <u>http://www.zinstall.com/sto/support/disk2vhd.exe</u> On your OLD computer, run the downloaded disk2vhd. In the drive list, select ONLY the C: drive. In the location at the top, click Browse and select your External USB drive. Start the disk2vhd capture. This will create a large container file on your USB drive. Move the USB drive to your new computer. On your NEW computer, run Zinstall Migration Kit Pro, and select the scenario for "Moving from Machine to Container". In Source selection, browse to select the Container you have on the USB drive (change the file type on the right to be able to see it). Click Next until you start the migration.
252	 The network connection between your computers has been disconnected during the migration. This may be caused by Faulty network adapter on the SOURCE computer Faulty network switch that fails during the migration, because of its failure to handle of large volumes of data copied Firewall/antivirus/security software interfering with network traffic. Troubleshooting: Make sure the network cable and adapters are properly connected physically. Make sure both SOURCE and TARGET computers are online and not turned off / hibernating Make sure there are no firewalls/antiviruses/security software installed / running on either SOURCE or TARGET computers If you are using a direct cable connection, use a router connection instead. If you are using a router connection, use a direct cable connection instead Close all programs on both computer before starting the migration again If the problem persists, the recommended solution is: Remove the hard drive from the SOURCE computer and connect it to the TARGET computer. Perform the migration using that hard drive as migration source (see User Guide for detailed instructions)
254	VSS issue Volume Shadow copy Service (VSS) is a Windows component that allows creating a

	snapshot of a volume in order to copy it in a consistent manner. For more details, see
	Volume Shadow Copy Service Overview.
	Zinstall uses VSS on the source computer in order to create a consistent copy of all its
	disks. In case of a VSS problem, Zinstall can still perform the migration, but this may cause
	issues in later stages of the migration, if file system and/or registry activity happens on
	the source computer during the migration.
	If Zinstall Migration Kit Pro shows a warning about VSS, either close all applications on the source computer in order to lower the chances of problems later on, or resolve the VSS problem before proceeding with the migration process, according to the following guide.
	How to solve VSS problems?
	Windows XP
	1. On your SOURCE computer, download the vshadow utility from:
	http://www.zinstall.com/sto/tools/vshadow.exe
	2. Open a command prompt and for each volume on your source computer, run
	"vshadow x:" where "x" is the volume drive letter. For example:
	"vshadow c:"
	This should result in a lot of text being printed out.
	If the VSS is working fine, the output should end with the line "Snapshot creation done."
	4. If a VSS problem is still present, the output will end with a detailed problem
	description and error code.
	 You can use this problem description and error code to either contact Microsoft's support or try and find a solution using available knowledge base and Internet
	sources.
	Once you get VSS to work, run the migration again.
	General error Troubleshooting:
262	 Perform a CHKDSK - hard drive consistency check - on the hard drive of the SOURCE computer
202	 Make sure there are no firewall/antivirus/security software installed / running on
	3. Restart both the SOURCE and the TARGET computers
	4. Then run the migration again
	One or more of the partitions on the computer's hard drive are formatted using the FAT32 file system
298	For a reliable transfer, FAT32 partitions should be upgraded to the NTFS file system.
	Troubleshooting: Please do the following for each of the partitions mentioned in the message you have seen.

	1. Open a command prompt by going to Start Menu -> All Programs -> Accessories ->
	Command Prompt
	2. In the command prompt, type the following command and press enter:
	convert c: /FS:NTFS
	3. If you are asked to provide a "volume label", type in the label the drive has as seen in My Computer. For example, if My Computer has "Drive C: [My Drive]", you need to
	type in "My Drive".
	 Answer YES to question about "volume in use, do you wish to force?"
	5. Answer YES to question about "system volume, schedule for next boot?"
	6. Restart your computer
	7. When windows begins to start , let it do a disk check (it will show the message "the
	type of the file system is FAT, press any key to cancel disk check" - do NOT press any
	key at this stage)8. Once a disk check is done, conversion to NTFS will begin. This may take some time,
	please wait for it to finish
	9. Once the conversion is finished, Windows will reboot itself once more.
	Your file system is now upgraded to NTFS.
	VSS warning
328	To troubleshoot, see Message 254 (above)
	Migration from 64 bit to 32 bit is not allowed for this system
375	Your Source OS is 64 bit, while the target is 32 bit. In order to complete the transfer,
	upgrade the target Windows to 64 bit. Then, run Zinstall again.
	Source hard drive or storage location has disconnected during the migration
	The source hard drive (or source storage location) has disconnected from the target
	machine during the migration process. This can also be caused if the source has a major
467	corruption of its data, preventing the data from being read.
	Steps to resolve:
469	- Make sure the source drive is securely connected to the target machine
	- Run CHKDSK on the source drive (see Appendix above).
	- Restart the computer
	- Restart the computer
	- Restart the computer
	 Restart the computer Then, run Zinstall again. Windows updates required on target Your target Windows must be up-to-date before continuing the migration.
470	 Restart the computer Then, run Zinstall again. Windows updates required on target Your target Windows must be up-to-date before continuing the migration. Run Windows Updates on the target machine until it is fully updated, including Service
470	 Restart the computer Then, run Zinstall again. Windows updates required on target Your target Windows must be up-to-date before continuing the migration.

	Note: If the source machine's registry is corrupted, this error may also be shown.
471 472	 Source computer has disconnected Migration source has disconnected during the migration process. This error may also be caused by a hard drive corruption issue on the source machine. Restart both machines, ensure the network cables are properly connected. It is strongly recommended to avoid low quality connections, such as unstable wireless networks. To fix any possible hard drive corruption, run CHKDSK on the source drive (see Appendix above).
481	SSD mode initiated, but no secondary drive is available You have most likely selected more than one drive on the source computer and tried to initiate SSD Mode. Make sure to select only the C drive on Source selection, and you will be able to initiate SSD mode on Target selection.

After the Migration

Software activation

In some cases, third-party vendors require re-activation of their software, when it determines that system's component(s) are changed. Vendor policy in this regard varies and depends on several factors, such as: which and how many hardware components were changed, and which particular edition of the software is used.

In most cases, software re-activation can be done online through the software itself (when prompted to re-activate), or via the vendor website.

Example of software requiring re-activation is Microsoft Office. As stated above, Microsoft Office supports fully automatic re-activation online.

Incompatible applications

When using Zinstall Migration Kit Pro to transfer between XP and Windows 7 or Windows 8, or between 32-bit and 64-bit systems, you may find that some of the applications are inherently incompatible with the TARGET system. For example, an application using 32-bit drivers will not run on a 64-bit system "out of the box", and software such as Outlook Express cannot be used on Windows 7 or Windows 8 under any circumstances.

When you encounter such applications, you should contact the software vendor to check whether a different version of the software, compatible with the TARGET system – and how the incompatibility can be fixed. Alternatively, some applications can be made to run using the Windows built-in "compatibility mode" setting (configurable by right-clicking on the application and selecting "Properties").

If your primary concern in the migration is to continue using legacy/incompatible applications, consider using Zinstall XP7 to perform the migration.

How to revert the TARGET computer to its original state before the migration

If you would like to revert the TARGET computer to its original state, before the migration, this can be done using Windows System Restore standard procedure.

This option is useful if you would like to perform the migration "from scratch", or if you have encountered a problem with the new computer you cannot fix in any other way.

Windows System Restore is a built-in Windows service which allows you to revert all changes made to applications, system, drivers etc. You can select the date to which you want to revert. System Restore does not change or revert documents and non-application files. To revert the computer to its original state, before the migration, revert to a System Restore snapshot taken just before the migration. It is recommended to use the snapshot taken automatically before the migration is started – it has the word "Zinstall" in its description.