

Documentation Area

Praim Toolkit Guide

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Praim Toolkit

User Guide

Praim Toolkit 1.2.5 - User Guide

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1 Introduction

The "Praim Toolkit" software allows to create a USB Memory stick that can be used to restore a Praim thin client.

The procedure explained in this guide has to be executed only in exceptional cases and not before you have tried other ways (eg. put a terminal to factory default via ThinOX Terminal Properties).

Below you can find information on:

- how to install and remove "Praim Toolkit" software
- how to initialize the USB Memory Key for restoring a thin client
- how to initialize the USB Memory Key for cloning a thin client
- how to use the USB Memory Key on the thin client

This guide is valid for thin client models belonging to:

- Ultra Dual Core Series
- Atom Dual Core Series
- Compact Dual Core Series
- Atomino Series
- Ultra Series
- Compact Series
- Ino Series



1.1 Firmware compatibility

For ThinOX thin client: only firmware 8.2.x and above are suitable to be used with these procedures.



2 Installing and Removing Praim Toolkit

Praim Toolkit can be installed on these supported Operating Systems in both 32 or 64 bit architecture (if O.S. support 64 bit):

- Windows 7
- Windows 2003 Server
- Windows 2008 Server (also SP2)

All this O.S. can be installed on physical hardware or in a virtual machine environment.

In any case Praim Toolkit will run in 32 bit mode only.

2.1 Installing Praim Toolkit

Run the installation file "PRAIMThinClientToolkit-W7-1.0.005_RC.exe" on the computer where you want to install "Praim Toolkit".

The following window will appear on the display.



Select the appropriate language for the program (default is "Italiano") and click "OK" to proceed with the installation.



Whether the component "Microsoft Visual C++ 2010 Redistributable Package" is not already installed on the device, proceed with its installation by clicking "Install" (the component must be installed) and progress with the ThinMan setting up.





Click "Next" to confirm the installation.



Read and accept the "License Agreement", then click "Next" to continue. It is possible to print the agreement by clicking on "Print".



Type the User and Company Name. Click "Next" to continue.



You may choose a different directory where to install the software by clicking on "Change".

Click "Next" to proceed with the operation.



Select which components has to be installed.

Click "Next" to continue.



Click "Install" to begin the installation. By clicking on "Back" is still possible to change the settings entered so far.





A status bar will show the progress of the installation. At this point is still possible to quit the operation by clicking on "Cancel".





The software is now installed. Click "Finish" to end the installation.



Removing Praim Toolkit can be done in two different modes:

- via "Control Panel" -> "Programs and Features"
- running the installation file "PRAIMThinClientToolkit-W7-1.0.005_RC.exe"



Remove via Control Panel

Access the "Control Panel" from Windows Menu Start and then double-click on "Programs and Features". Scroll the list of the installed software and select "Praim - ThinClientToolkit".

Click on "Uninstall". Skip the next step and proceed.





Remove running installation file

Run the installation file "PRAIMThinClientToolkit-W7-1.0.005_RC.exe" on the computer where you previously installed "Praim Toolkit".

From the window select "Remove" option and click "Next".



For both cases

Select "Yes" from the dialog window to confirm the removing of the software.





A status bar will show the progress of the software removing.





The software is removed.



3 How to create Recovery USB Key for ThinOX

Connect an empty USB Storage Key to the Windows 7 PC. Whether the USB Storage Key is not empty you will lose all the data inside it.



Run "ThinOX USB Recovery" software.



PRAIM Thin	OX USB Recove	ry - drive				 X_
	X	THIN CLIENT Toolkit	2	175		aim
Drive	Volume	Capacity	Туре	Firmware		
F:\	PRAIM	3823Mb	Standard	WIN ()		
- Se	sert a USB drive elect the USB driv elect the format o Format as L					
		device cloning				
		simple drive				
			<	Back Next >	Cancel	About

Select from the list the inserted USB Storage Key.

Click on "Format as USB Recovery".



Confirm the operation clicking on "Yes".

AIM Thind	DX USB Recovery	THIN CLIENT	
Drive	Volume	Capacity	Туре
F:\		7632Mb	Standard
- Sel	ert a USB drive ect the USB drive ect the format op Format as US	tion	ait a few seconds Don't remove the USB drive!
	Format for de		
	Format as s		
			< <u>B</u> ack <u>N</u> ext > Cancel About

The window will show the operation in progress.



Wait until it finished and click "OK".



PRA	PRAIM ThinOX USB Recovery - drive								
	1	×	THIN CLIENT Toolkit	2	250	Praim			
	Drive	Volume	Capacity	Туре					
	F:\	PRAIM	7632Mb	PRAIM USB Recovery					
	- Se	sert a USB drive lect the USB driv lect the format o Format as U]					
		Format for	device cloning]					
		Format as	simple drive]					
_									
				< <u>B</u> ack	Next >	Cancel About			

Click on "Next" to continue.

PRAIM ThinOX USI	B Recovery - firm	ware			×
				5	Praim
Model	Туре	Version	Template		
Add License Set overrid		Add Template	Remove Template	Add Firmware	Remove Firmware
- Add a Thi	nware on the USB d inMan Template Cor enses file *.flc (optio	figuration *.tplx (op	tionally)		
			< Back	Finish	ancel About

Click on "Add Firmware" to insert the ThinOX firmware file.

open			▼ 42	Search firmware	<u>×</u> م
Organize New folder	-		• ·7	in the second se	
🔆 Favorites	<u>^</u>	Name	Date modified	Туре	Size
Desktop	=	19010_9.1.1.tar	26/03/2013 12:31	TAR File	157.280
Downloads		XT9050-A_8.5.6.tar	18/09/2012 09:20	TAR File	320.830 F
🕵 Photo Stream		XT9050-A_8.6.0.tar	19/10/2012 15:04	TAR File	320.870 F
Recent Places		XT9050-A_8.6.2.tar	08/11/2012 12:41	TAR File	320.870 ł
		XT9050-A_8.6.3.tar	14/11/2012 17:56	TAR File	320.870 ł
🥃 Libraries		XT9050-A_8.6.5.tar	16/01/2013 10:58	TAR File	320.850 F
de Apps		XT9050-A_8.7.0.tar	14/03/2013 16:58	TAR File	327.190 H
Documents		XT9050-A_8.7.1.tar	25/03/2013 09:52	TAR File	327.410 H
J Music		XT9050-A_8.7.2.tar	25/03/2013 15:32	TAR File	327.390 H
Pictures		XT9050-A_8.7.3.tar	05/04/2013 14:09	TAR File	327.710 H
Videos	-	•	III		•
File <u>n</u> ame:	XT9050-	A_8.7.3.tar	•	ThinOX Firmware	(*.tar) 🔻
				<u>O</u> pen ▼	Cancel

Select the firmware file from the explorer window and click "Open".



PRAIM ThinOX USB Recove	ry - firmware		x
	THIN CLIENT Toolkit	105	(Praim
Model 1	Type Version Ter	mplate	
Add Licenses Set override - Add a firmware on - Add a ThinMan Ter - Add a licenses file	the USB drive (mandatory) nplate Configuration *.tplx (optionally)	e the USB drive!	are Remove Firmware
		< Back Finish	Cancel About

Wait until the software is writing the firmware on the USB Storage Key.

DO NOT REMOVE the USB key from the PC until this operation is terminated.

RAIM ThinOX USB F	Recovery - firmw	are		— X —			
			2	(Praim			
Model	Туре	Version	Template				
XT9050-A	FACTORY	8.7.3					
Add Licenses Set override		Add Template	e Remove Template Add	Firmware Remove Firmware			
- Add a firmware on the USB drive (mandatory) - Add a ThinMan Template Configuration *.tplx (optionally) - Add a licenses file *.flc (optionally)							
			< <u>B</u> ack Finish	Cancel About			

Click on "Finish" to close the software and detach the USB Storage Key from the PC.

Clicking on "Remove Firmware" will delete the firmware from the USB Storage Key. You may use this feature after restoring the thin client firmware.

From this window you can also add a ThinOX Template file that will be inserted as thin client configuration in the USB Storage Key. For more information on Template file please refer to the ThinMan User Guide. Click on "Add Template".

Open					X
😋 🕞 🗸 🕌 « Volume (C:)	 Program 	m Files ▶ Praim ▶ ThinMan ▶ Template	▼ 4 ₇	Search Template	Q
Organize 🔻 New folder					
🌗 GlobalBackup	*	Name	Date modified	Туре	Size
Log		ThinOX_Template.tplxt	05/02/2013 14:39	TPLXT File	42 KB
Naming	s				
🖟 Repository					
Repository_Ppd					
kesources	=				
Server					
) SNMP					
🐌 Template					
TMBS	-	•			
File <u>n</u> ame	ThinOX	_Template.tplxt	-	ThinOX template (*.tp	plxt) 🔻
				Open 🔻	Cancel

Select the ThinOX Template file using the browsing windows and click "Open".

PRAIM ThinOX USB	Recovery - firmw	are		×
				aim
Model	Туре	Version	Template	
XT9050-A	FACTORY	8.7.3	ThinOX_Template.tplxt	
Add Licenses Set override		Add Template	e Remove Template Add Firmware Remov	e Firmware
- Add a Thini	ware on the USB dri Man Template Conf ses file *.flc (optior	guration *.tplx (o	iptionally)	
			< Back Finish Cancel	About

The template file is imported into the USB Storage Key.

You can remove a template from the USB Storage Key clicking on "Remove Template".

You can remove a firmware from the USB Storage Key clicking on "Remove Firmware".

Override
Tenable Override
ThinMan Address (IP/Hostname) DHCP Option:
ThinMan Address, (IP/Hostname) when DHCP option not available:
192.168.0.100
OK Cancel

Clicking on "Set override" will open this window that allows to override the ThinMan Address configuration contained in the template. This option will overwrite, on the USB Key, the options configured in the loaded template. Click "OK" to confirm these changes.

Click on "Finish" to close the software, then you can disconnect the USB Storage Key from the PC.

To recover a thin client using the prepared USB Key follow the procedure explained at Use the Recovery USB Key on a Thin Client (see page 47) paragraph.



4 Cloning a ThinOX device using a USB Key

It is possible to use a prepared USB Key to clone a ThinOX device. In this way you can extract a thin client image and save it on a USB Key, then it is possible to use this USB Key to write the previously saved image on new thin clients.

WARNING

This procedure is destructive on the destination thin clients. It will remove the thin client license and you have to contact the Praim Support to obtain the correct one. Instead to use this procedure try to restore the thin client using the recovery procedure (see How to create Recovery USB Key for ThinOX (see page 20) for more informations).

The first step is to prepare the key in the cloning mode.

Connect an empty USB Storage Key to the Windows 7 PC. Whether the USB Storage Key is not empty you will lose all the data inside it.



Run "ThinOX USB Recovery" software.



PRAIM Thin	DX USB Recove	ry - drive			×
1	×	THIN CLIENT Toolkit	2		Praim
Drive	Volume	Capacity	Туре	Firmware	
F:\	PRAIM	3823Mb	Standard	WIN ()	
- Se	sert a USB drive lect the USB driv lect the format o Format as U]		
	Format for	device cloning]		
	Format as	simple drive]		
				Back Next > Ca	ncel About

Select from the list the inserted USB Storage Key.

Click on "Format for device cloning".



Confirm the operation clicking on "Yes".

RAIM ThinG	DX USB Recover	y - drive THIN CLIENT TOOIkit	
Drive	Volume	Capacity	Туре
F:\		3818Mb	Standard
- Sel	ert a USB drive ect the USB drive ect the format op Format as U	btion	it a few seconds Don't remove the USB drive!
	Format as 0:		
	Format for d		
			< Back Next > Cancel About

The window will show the operation in progress.



Wait until it finished and click "OK".



PRAIM Thi	inOX USB Recove	ry - drive			×
	×	THIN CLIENT Toolkit	200	250	(Praim
Drive	Volume	Capacity	Туре		
F:\	PRAIM	38 18Mb	PRAIM device doning		
-	Insert a USB drive Select the USB driv Select the format o Format as L				
		device cloning			
		simple drive]		
			,		
			< <u>B</u> ack	Finish	ancel About

Click on "Finish" to continue. Detach the USB Key from the PC (use the Windows procedure to safely remove the USB Key).

The USB Key is now ready to extract and save on itself the thin client DOM (Disk On Module) image.

Use the USB Key as explained in the Use the Recovery USB Key on a Thin Client (see page 47) paragraph on the master configured thin client to extract its DOM (Disk On Module) image.

Once the USB Key has read a thin client DOM image you can use it on other thin clients to write the saved image.

The procedure is the same as explained in Use the Recovery USB Key on a Thin Client (see page 47) paragraph with the only exception that a confirmation is required (press "y" and "Enter" on the keyboard when requested) to proceed with the writing.



WARNING

This operation will clone the first thin client firmware and configuration on all the other thin clients. Pay attention because also the license, the hostname and the IP Address configuration are cloned.

The license contained on the cloned thin clients will be not valid. Contact the Praim Support to obtain the correct license.

So you will have all the thin clients with the same hostname (remember to change it after the cloning operation).

Also if a static IP Address is configured on the first thin client the cloned thin clients will have the same static IP Address causing network problem.



5 How to create Recovery USB Key for Windows Embedded

Connect an empty USB Storage Key to the Windows 7 PC. Whether the USB Storage Key is not empty you will lose all the data inside it.



Run "Windows Embedded USB Recovery" software.

	dows Embedde	d USB Recovery - driv THIN CLIENT TOOIkit		15	(Pr	aim
Drive	Volume	Capacity	Туре			
F:\		7632Mb	Standard			
- Se	sert a USB drive lect the USB driv lect the format o Format as I	/e]			
	Format for	device cloning]			
	Format as	s simple drive]			

Select from the list the inserted USB Storage Key.

Click on "Format as USB Recovery".



Conform the operation clicking on "Yes".


PRAIN	/ Wind	ows Embedded	USB Recovery - dri	ive 🗶
		X	THIN CLIENT Toolkit	Praim
	Drive	Volume	Capacity	Туре
1	F:\		7632Mb	Standard
	- Sel	ert a USB drive ect the USB drive ect the format opt	Formatting, Wa	Aait a few seconds Don't remove the USB drive!
		Format as US	B Recovery	
		Format for de	vice cloning	
		Format as s	imple drive	
				< Back Next > Cancel About

The window will show the operation in progress.



Wait until it finished and click "OK".

PRAIM Wind	RAIM Windows Embedded USB Recovery - drive								
	×	THIN CLIENT Toolkit	2	Pra	Ē				
Drive	Volume	Capacity	Туре						
F:\	PRAIM	7632Mb	PRAIM USB Recovery						
- Se	sert a USB drive lect the USB driv lect the format o Format as U								
		device cloning							
		simple drive							
			< <u>B</u> ack	Next > Cancel	About				

Click on "Next" to continue.



AIM Windows E	Embedded USB Rec	CLIENT DIkit			
Model	Туре	Version			
Add Licens	ses		Ad	dd Firmware Remove	e Firmware
- Add a firr - Add a Thi	mware on the USB dri	figuration *.tplx (optionally)			

Click on "Add Firmware" to select the Windows Embedded firmware file.

Open					×
🕞 🕞 – 📙 🕨 firmware			▼ \$ 9	Search firmware	Q
Organize 🔻 New folder					
🔆 Favorites	^	Name	Date modified	Туре	Size
📃 Desktop	=	🗋 1gb.cmxpf	12/04/2012 17:00	CMXPF File	979.965 KB
🚺 Downloads		Denni Alexand Di rege	01/02/2013 15:15	CMXPF File	7.831.352 KB
👧 Photo Stream					
🖳 Recent Places					
🛱 Libraries					
Apps Documents					
Documents My Documents					
Public Documents					
Music	-	e	m		- F
File <u>n</u> ame: 1gt	. crow	.f	•	Windows Factory File (* cmvnf) 💌
rite <u>n</u> ame: 1gt	xp	,	•	Windows Factory File (
				Windows Backup File (*.cmxpb)
L				Windows Clone File (*.	cmxpc) 🔡

You can choose between Factory, Backup and Clone file type from the list on the right. Then select the firmware file from the explorer window and click "Open".

AIM Windows E		CLIENT	5	(Praim
Model	Туре	Version		
Add License		0 of 956 Mb copied		are Remove Firmware
- Add a Thi	nware on the USB dr inMan Template Con enses file *.flc (optio	ive (mandatory) figuration *.tplx (optiona	ove the USB drive!	
			< <u>B</u> ack Finish	Cancel About

Wait until the software is writing the selected firmware on the USB Storage Key.

DO NOT REMOVE the USB key from the PC until this operation is terminated.



IM Windows Er	mbedded USB Rec	overy - firmware				×
			5	25	- (Pra	5
Model	Туре	Version				
WIN	FACTORY	Unknown				
Add License	es			Add Firmwa	Remove	Firmware
- Add a Thir	mware on the USB dr inMan Template Conf enses file *.flc (option	figuration *.tplx (optionally)			
			< <u>B</u> ack	Finish	Cancel	About

Click on "Finish" to close the software and detach the USB Storage Key from the PC.

To recover a thin client using the prepared USB Key follow the procedure explained at Use the Recovery USB Key on a Thin Client paragraph.



6 Cloning a Windows Embedded device using a USB Key

It is possible to use a prepared USB Key to clone a Windows Embedded device. In this way you can extract a thin client image and save it on a USB Key, then it is possible to use this USB Key to write the previously saved image on new thin clients.

The first step is to prepare the key in the cloning mode.

Connect an empty USB Storage Key to the Windows 7 PC. Whether the USB Storage Key is not empty you will lose all the data inside it.



Run "Windows Embedded USB Recovery" software.



AIM Wind	dows Embeddeo	d USB Recovery - driv	/e		— ×
	×	THIN CLIENT Toolkit	24		Praim
Drive	Volume	Capacity	Туре		
F:\		7632Mb	Standard		
- Se	sert a USB drive elect the USB driv elect the format o Format as U		7		
		device cloning			
		simple drive	7		

Select from the list the inserted USB Storage Key.

Click on "Format for device cloning".



Conform the operation clicking on "Yes".

RAIM Wind	/	USB Recovery - driv THIN CLIENT TOOIkit	
Drive	Volume	Capacity	Туре
F:\		7632Mb	Standard
- Sel	ert a USB drive ect the USB drive ect the format op Format as US	tion	Don't remove the USB drive!
	Format for de	evice cloning	
	Format as s	imple drive	
			< Back Next > Cancel About

The window will show the operation in progress.



Wait until it finished and click "OK".



RAIM Windows Embedded USB Recovery - drive									
1	X	THIN CLIENT Toolkit	200	250	Praim				
Drive	Volume	Capacity	Туре						
F:\	PRAIM	7632Mb	PRAIM device doning						
- Se	sert a USB drive lect the USB driv lect the format o Format as l								
		device cloning							
		simple drive							
			< <u>B</u> ack	Finish	Cancel About				

Click on "Finish" to close the software. Detach the USB Storage Key from the PC (use the Windows procedure to safely remove the USB Key).

The USB Key is now ready to extract and save on itself the thin client DOM (Disk On Module) image.

Use the USB Key as explained in the Use the Recovery USB Key on a Thin Client (see page 47) paragraph on the master configured thin client to extract its DOM (Disk On Module) image.

Once the USB Key has read a thin client DOM image you can use it on other thin clients to write the saved image.

WARNING

Before restoring a Windows Embedded thin client be sure to power it on and verify that the thin client is visible in the ThinMan console. If the device is visible on ThinMan its license is saved, so when the recovery phase is terminated the device will restore correctly its license. If the thin client is not shown on the ThinMan console its license has to be entered manually.



The procedure is the same as explained in Use the Recovery USB Key on a Thin Client (see page 47) paragraph with the only exception that a confirmation is required (press "y" and "Enter" on the keyboard when requested) to proceed with the writing.

🔺 ΝΟΤΕ

At the end of writing the thin client will reboot. Leave the thin client untouched and wail. It will execute a recovery phase and it will reboot once or twice.



7 Use the Recovery USB Key on a Thin Client

Once the Recovery USB Key is prepared (see How to create Recovery USB Key for ThinOX (see page 20) and How to create Recovery USB Key for Windows Embedded (see page 35)) you can use it on a thin client.

Insert the USB Key in a USB Port on the thin client.

Power on the thin client and keep pressed "F12" (function key) on the keyboard during the bootstrap to access the "Boot Menu" (you can also configure the thin client to boot always from a USB key first, see How to configure BIOS to boot always from a USB Key first (see page 50) for more informations).

From the "Boot Menu" select (using arrow keys) the USB Key (see box below) and then press <ENTER>.

A How to select the USB Key from "Boot Menu"

For most BIOS the USB key is available and can be selected under HARDDISK, press <ENTER> on the keyboard and selected then USB0 (or similar, it can be also the model name of the USB key).

In some cases (depending on the BIOS version and manufacturer) select USB-ZIP from the available choice.

For U9xxx thin client model (e.g. U9700) follow the instruction available in the chapther Booting from USB Key for U9xxx and A9xxx thin client model (see page 49).

The restore procedure will start immediately and the progress status is shown on the monitor.

DO NOT turn off the thin client during this phase.

At the end of the process a message will indicate "Now remove your USB device".

Remove the USB Key from the thin client and it will reboot.

The thin client will eventually ask for "Numero di Serie" (Serial Number) and "Codice Licenza" (License Code).

In this case write the data appearing on the monitor (Model and MAC Address) and contact Support Team at Praim (http://www.praim.com).

For Windows Embedded devices the request depend whether a ThinMan Server is on the network and the thin client already communicate with it.



For ThinOX devices click "Annulla" on the first window then write down model and MAC Address and contact support team on Praim (http://www.praim.com).



7.1 Booting from USB Key for U9xxx and A9xxx thin client model

For U9xxx thin client models (e.g. U9700, A9700) it is not possible to boot always from USB Key. Every time you need to boot from the USB Key you have to:

- insert the USB Key in a USB 2.0 port (USB 3.0 ports have a blue plastic insert in the middle of the port and/or port is signed as "SS", while in USB 2.0 the insert is black)
- power on the thin client
- access the BIOS window pressing continuously "Del" key on the keyboard at the thin client bootstrap
- select "Boot" in the upper menu (using left and right arrow keys on the keyboard)
- select "Hard Drive BBS Priorities" in the central window (using up and down arrow keys on the keyboard)
- press <ENTER> on "Boot Option #1" and, from the list, select "USB FLASH DRIVE PMAP"; press <ENTER> to confirm choice
- press <F4> key on the keyboard and then <ENTER> to save the configuration and exit the BIOS setup window (this will reboot the thin client)

The thin client will reboot using the USB Key as boot device. This configuration is not saved in the BIOS but every time you need to boot from USB device you have to follow the procedure explained above.



8 How to configure BIOS to boot always from a USB Key first

To allow the thin client to boot always from USB Key first you have to change its BIOS configuration.

The procedure is slightly different and depend on the thin client hardware.

8.1 Procedure for Ultra Dual Core Series

It is not possible to configure U9xxx thin client model to boot always from the USB Key. Every time you need to boot from a USB Key you have to follow the procedure explained at chapter Booting from USB Key for U9xxx and A9xxx thin client model (see page 49).



8.2 Procedure for Atom Dual Core Series

It is not possible to configure A9xxx thin client model to boot always from the USB Key. Every time you need to boot from a USB Key you have to follow the procedure explained at chapter Booting from USB Key for U9xxx and A9xxx thin client model (see page 49).



8.3 Procedure for Compact Dual Core Series

On the thin client insert a USB Key. Power on the device and while it is starting access the BIOS configuration pressing on key.

On the BIOS menu select "Advanced BIOS Features" option (use the arrow key on the keyboard) and press <Enter>. On the "Advanced BIOS Fetaures" menu select "First Boot Device" and press <Enter>. From the "First Boot Device" menu select "Removable" and press <Enter>. Press <ESC> to return on the BIOS menu.

Select "Integrated Peripherals" and press <Enter> on the keyboard. From the "Integrated Peripheral" menu select "USB Device Setting" and press <Enter>. On the menu you will see the inserted USB Key with "Auto Mode" option enabled. Select the inserted USB Key and press <Enter>. On the menu select "FDD mode" and press <Enter>. Press <ESC> twice to return on the BIOS menu.

Press <F10> and on the request to save press <Y> or <Enter>.



8.4 Procedure for Atomino Series

On the thin client insert a USB Key. Power on the device and while it is starting access the BIOS configuration pressing on key.

On the BIOS menu select "Advanced BIOS Features" option (use the arrow key on the keyboard) and press <Enter>. On the "Advanced BIOS Features" menu select "First Boot Device" and press <Enter>. From the "First Boot Device" menu select "USB-ZIP" and press <Enter>. Press <ESC> to return on the BIOS menu.

Select "Integrated Peripherals" and press <Enter> on the keyboard. From the "Integrated Peripheral" menu select "USB Device Setting" and press <Enter>. On the menu you will see the inserted USB Key with "Auto Mode" option enabled. Select the inserted USB Key and press <Enter>. On the menu select "FDD mode" and press <Enter>. Press <ESC> twice to return on the BIOS menu.

Press <F10> and on the request to save press <Y> or <Enter>.



8.5 Procedure for Ultra Series

On the thin client insert a USB Key. Power on the device and while it is starting access the BIOS configuration pressing on key.

On the BIOS menu select "Advanced BIOS Features" option (use the arrow key on the keyboard) and press <Enter>. On the "Advanced BIOS Features" menu select "First Boot Device" and press <Enter>. From the "First Boot Device" menu select "USB-ZIP" and press <Enter>. Press <ESC> to return on the BIOS menu.

Select "Integrated Peripherals" and press <Enter> on the keyboard. From the "Integrated Peripheral" menu select "USB Device Setting" and press <Enter>. On the menu you will see the inserted USB Key with "Auto Mode" option enabled. Select the inserted USB Key and press <Enter>. On the menu select "FDD mode" and press <Enter>. Press <ESC> twice to return on the BIOS menu.

Press <F10> and on the request to save press <Y> or <Enter>.



8.6 Procedure for Compact Series

On the thin client insert a USB Key. Power on the device and while it is starting access the BIOS configuration pressing on key.

On the BIOS menu select "Advanced BIOS Features" option (use the arrow key on the keyboard) and press <Enter>. On the "Advanced BIOS Features" menu select "First Boot Device" and press <Enter>. From the "First Boot Device" menu select "USB-ZIP" and press <Enter>. Press <ESC> to return on the BIOS menu.

Select "Integrated Peripherals" and press <Enter> on the keyboard. From the "Integrated Peripheral" menu select "USB Device Setting" and press <Enter>. On the menu you will see the inserted USB Key with "Auto Mode" option enabled. Select the inserted USB Key and press <Enter>. On the menu select "FDD mode" and press <Enter>. Press <ESC> twice to return on the BIOS menu.

Press <F10> and on the request to save press <Y> or <Enter>.



8.7 Procedure for Ino Series

On the thin client insert a USB Key. Power on the device and while it is starting access the BIOS configuration pressing on key.

On the BIOS menu select "Advanced BIOS Features" option (use the arrow key on the keyboard) and press <Enter>. On the "Advanced BIOS Features" menu select "First Boot Device" and press <Enter>. From the "First Boot Device" menu select "USB-ZIP" and press <Enter>. Press <ESC> to return on the BIOS menu.

Select "Integrated Peripherals" and press <Enter> on the keyboard. From the "Integrated Peripheral" menu select "USB Device Setting" and press <Enter>. On the menu you will see the inserted USB Key with "Auto Mode" option enabled. Select the inserted USB Key and press <Enter>. On the menu select "FDD mode" and press <Enter>. Press <ESC> twice to return on the BIOS menu.

Press <F10> and on the request to save press <Y> or <Enter>.