

Logicube's Forensic USB/CD Cloning Software

User's Manual

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1: Introduction

1.0 Introduction to the Forensic USB/CD Software

This software contains everything that you need to image and capture drives via the USB ports of a PC. The Forensic USB/CD Software works with the following Logicube products:

- Logicube Talon[®] Enhanced
- Logicube Forensic Dossier[®]
- Logicube Forensic Quest[®] (F-QUEST-2)
- Logicube Forensic Talon[®]

With the Forensic USB/CD software, Native (bit-for-bit) Capture and DD Imaging is supported. E01 is not supported using the USB Forensic software. To use E01 capture mode, the drive must be disconnected from the computer, and connected directly to a Logicube forensic imaging device that supports E01.

The drive connected to the PC can only be the Source drive. USB 1.x and 2.0 are supported. Typically the user will boot the computer from the Forensic USB flash drive or bootable CD.



With the Talon Enhanced, USB cloning only works with one Destination Drive (D1).
With the Forensic Dossier, USB cloning only works with one Source drive cloning to one Destination drive (D1).

1.1 Forensic USB/CD Software Download Location

Download the Logicube Forensic boot image from the following web page: <u>http://updates.logicube.com/ts/Forensic_USB_Boot_CD_V0.30.iso</u>

The ISO file can be burned to a CD using CD imaging software that support ISO files or the ISO file can be used to create a bootable USB flash drive.

1.2 How to set up and use the Forensic USB/CD Software

Follow these instructions to maintain the forensic integrity of the capture.

1. On the Logicube device (Talon Enhanced, Forensic Dossier, Quest or Talon), attach a hard drive to the Destination (D1) position that is larger than the suspect drive you intend to capture.



2. Insert the boot CD or USB flash drive into the computer's optical drive (CD-ROM/DVD-ROM) or USB port. Make sure that the PC is set to boot from the optical drive or USB. Please contact the computer manufacturer if further instructions are needed to change the boot device. The Forensic USB software is configured to automatically load the necessary drivers and run the client application. A User Interface will be presented on the monitor with various capture options and settings.



A USB connection must be made between the computer and the Logicube forensic capture device either before or after the Boot CD application starts. The following message will be displayed if the application starts without detecting connection to a Logicube forensic capture device: *Searching for Logicube Forensic Device. Make sure it is connected.*

- 3. Locate your Logicube device model from the 4 selections below and follow the instructions to set your Logicube device to USB mode:
 - **Talon Enhanced** From the main menu, tap *Settings > More > USB/ESATA > USB >* make sure the *Drive* is set to D1 then press the *START/STOP* button twice.
 - Forensic Dossier From the main menu, tap *Settings > More > USB/1394 > USB >* make sure the *Drive* is set to D1 then press the *START/STOP* button twice.
 - Forensic Quest (F-QUEST-2) From the main menu, tap Settings > USB > make sure the Drive is set to D1 then tap the Back icon, then tap the Start icon.
 - Forensic Talon Press the SET button. Next to Mode press SELECT. Scroll down to USB Drive Mode and press SELECT. Press the button under <ATA> then press the button under <NO>. Wait for the unit to prompt you to "attach the USB cable".
- 4. Attach a mini USB cable (included with your Logicube device or any mini USB cable should work) between the Logicube device and PC. The Capture Utility will detect the connection.
- 5. The Forensic USB software should now detect the presence of the Logicube device you are using. The forensic software interface will then come up and all available functions will now be controlled from the software application.



For DD Image capture: If the destination drive is not formatted with a FAT32 partition, the application will prompt the user and will format the drive accordingly. If there is not enough room in the destination drive for a DD capture, the application will exit with an error, notifying the user.



When either device is connected the application will display a menu containing three columns *PC Source Drives, Partitions and Modes*. For more information on the different capture modes and options, see **Chapter 3**.

- 6. Use the arrow keys on your computer's keyboard to navigate through the various settings of the capture utility. Use the *Enter* key to make selections and the *S* key to start a process.
- 7. On the left side of the screen you will see a list of up to four available drives. Choose the "Source" drive you wish to capture by scrolling through the selections using the up/down arrow keys on your PC's keyboard. When your selection is highlighted a brief description of the drive will appear in the middle of the screen. Press the *Enter* key to select a source drive.



- 8. On the right side of the screen you will see a list of capture modes. You can scroll through the selections using the up/down arrow keys on your PC's keyboard. Press *Enter* key to make your selection.
- 9. Once you have selected the "Source" drive to be captured and selected the method of capture press **S** to start the data capture. A progress bar will appear on the screen.



You may cancel or abort the capture at any time by pressing the *Esc* key. Press any key and by answering *[Y]es* to return to the main menu.

10. Once the capture finishes a message will pop-up indicating the capture session has completed successfully. If you have selected a capture method with an MD5 Hash the hash values will appear at the bottom of the screen.



Except for DD captures, the hash values generated will not be saved if you exit this screen. You must record the hash values before exiting!

- 11. Upon completion of the data capture press any key and answer **[Y]es** to go back to the main screen. To perform a data capture from another source drive, install a new destination drive only if the current destination drive is full or your next capture will be performed as Native. Repeat steps 6 through 11 to perform a subsequent data capture.
- 12. To exit the Forensic Cloning Software, press the *Esc* key and answer *[Y]es*. A message will display that indicates "You can now remove the CD-ROM". Some computers will automatically eject the CD at this point. Power down the PC as soon as the CD or USB flash drive has been removed to maintain the forensic integrity of the capture. *Do not reboot!*

1.3 Imaging a Mac using FireWire and the Forensic USB Software

Follow these instructions to maintain the forensic integrity of a HDD capture from a Mac computer. You will need a host computer (Non Apple/Mac) with FireWire support and the proper FireWire cable to run the Forensic USB software. Ensure that the Mac is turned OFF.



The MacBook Air is not supported at this time.

- 1. Install a FireWire cable between the host computer running the cloning software and the Apple computer (where the Source drive is located).
- 2. Power up the Mac and wait for the Apple chime and immediately press and hold *T* to enter FireWire Target Disk Mode.
- 3. Load the Forensic USB Software CD onto the host computer (non-Apple/Mac computer) by following instructions 1 through 6 on pages 1 and 2.
- 4. With FireWire Target Disk Mode already established, the User Interface on the host computer will display the Mac's hard drive in the list of available drives.
- 5. Continue following steps 7 through 12 on pages 2 and 3.

1.4 Additional Notes

- Capture speed depends wholly on the USB hardware and the processor speed of the PC. Expected capture speeds are up to 1.4GB/min with verify and up to 1.8GB/min without verify. Your capture speeds may vary.
- Upon detection of an error the capture will skip the bad sector(s) and write zeroes to the corresponding sector(s) on the destination drive.
- During most operations the capture utility reports Total Drive Sectors Cloned, Speed in MB/Minute, Time to Completion and % Complete.

2: Capture Modes and Options

2.0 Selectable Capture Modes and Options

The following lists all the available capture modes and options. E01 is not supported using the USB Forensic software. To use E01 capture mode, the drive must be disconnected from the computer, and connected directly to a Logicube forensic imaging device that supports E01.

- **Native:** This is analogous to a mirror copy of the internal drive of the PC to the Destination. This mode calculates and displays an MD5 Hash value.
- Native +V: Capture suspect drive and compute MD5 on the master drive. The destination drive is then read back and an MD5 hash is computed on it and compared with the Master hash. The Capture Utility will display the Total MD5 Hash value on the screen at the end of the capture session.
- **DD-Image-650M:** The Master drive is broken up into (650 MB files) and a MD5 hash is computed on every file (MD5 Hash values are calculated for each DD image). This requires the drive to be formatted with a FAT32 file system partition. There is a log generated and saved in the destination drive at the end of the session.
- **DD-Image-650M+V:** The Master drive is broken up into (650 MB files) and a MD5 hash is computed on every file. The destination drive is then read back and an MD5 hash is computed on it and compared with the Master hash. This requires the drive to be formatted with a FAT32 file system partition. A log file is generated and saved in the destination drive at the end of the session.
- **DD-Image-2G:** The Master drive is broken up into (2 GB files) and a MD5 hash is computed on every file. This requires the drive to be formatted with a FAT32 file system partition. There is a log generated and saved in the destination drive at the end of the session.
- **DD-Image-2G+V:** The Master drive is broken up into (2 GB files) and a MD5 hash is computed on every file. The destination drive is then read back and an MD5 hash is computed on it and compared with the Master hash. This requires the drive to be formatted with a FAT32 file system partition. A log file is generated and saved in the destination drive at the end of the session.
- **DD-Image-4G:** The Master drive is broken up into (4 GB files) and a MD5 hash is computed on every file. This requires the drive to be formatted with a FAT32 file system partition. There is a log generated and saved in the destination drive at the end of the session.

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- **DD-Image-4G+V**: The Master drive is broken up into (4 GB files) and a MD5 hash is computed on every file. The destination drive is then read back and an MD5 hash is computed on it and compared with the Master hash. This requires the drive to be formatted with a FAT32 file system partition. A log file is generated and saved in the destination drive at the end of the session.
- **Compute Source MD5:** An MD5 hash is computed on the entire internal PC drive. The resulting value is displayed on the screen.
- **Compute Destination MD5:** An MD5 hash is computed on the entire destination drive. The resulting value is displayed on the screen.
- Erase Destination: A single pass wipe is performed on the destination drive. For erase destination the Capture Utility reports Total Drive Sectors, Erased Sectors, Erase speed in MB/Minute, Time to Completion and % Complete.

3: Creating a bootable USB flash drive

3.0 Introduction

Aside from booting with the boot CD, a bootable USB flash drive may be created. This can be useful when the Suspect computer does not have an optical drive. Please note that not all computers support booting from a USB flash drive. Check with the computer's manufacturer for instructions on how to boot using a USB flash drive.

There are several ways of creating a bootable USB flash drive. Logicube has tested a software called Rufus (<u>http://rufus.akeo.ie/</u>). Rufus is open sourced software and is free for any type of use.



These instructions are just guidelines and may not work with all computers.

There are three requirements to create a bootable USB flash drive based on Logicube's Forensic boot image:

- A USB flash drive
- Rufus software (or any software that can create a bootable USB flash drive from an ISO image)
- Logicube's Forensic boot image (ISO format).

3.1 Step-by-step instructions

The following set of instructions uses Rufus as the software to create a bootable USB flash drive from an ISO image.

- 1. Download Rufus from <u>http://rufus.akeo.ie</u>. This software does not require to be installed.
- 2. Connect a USB flash drive to an available USB port on the computer.



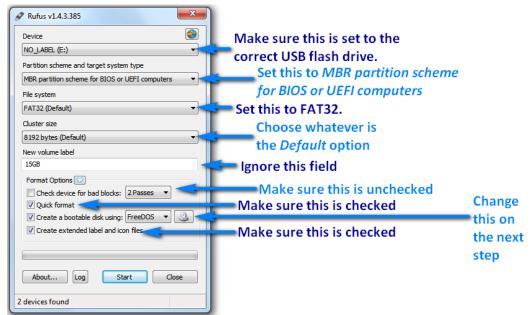
It is highly recommended to disconnect all other USB drives to ensure only the drive intended to be used will be formatted/overwritten.

Run Rufus. It should automatically detect the USB flash drive connected to the computer. If it does not, select the USB flash drive to be used under *Device*. A screen similar to the following will appear:

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Rufus v1.4.3.385
Device 🚳
NO_LABEL (E:)
Partition scheme and target system type
MBR partition scheme for BIOS or UEFI computers
File system
FAT32 🔻
Cluster size
4096 bytes (Default)
New volume label
4GB
Format Options 🔽
Check device for bad blocks: 2 Passes
Quick format
Create a bootable disk using: FreeDOS V
Create extended label and icon files
About Log Start Close
2 devices found

4. Make sure the following items are set correctly:



- 5. Click the optical drive icon to the right of *Create a bootable disk image using:*
- 6. A window will appear allowing you to select and open an ISO image. Browse to the folder where the Forensic USB boot image was saved. Highlight the ISO file, then click the **Open** button.

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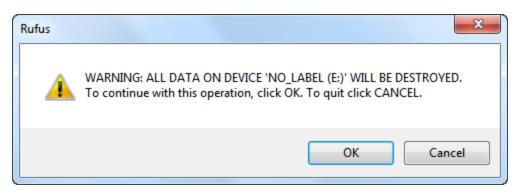
🖋 Open						X
00	🔋 📔 « Current Produc	cts 🔸 Forensic USB Bo	ot CD	✓ 4 Search For	rensic USB Boot CD	٩
Organize	✓ New folder				:≡ ▼ []	0
<u> </u>	Name	<u>^</u>	Date modified	Туре	Size	
	🙆 Forensic USB Boo	t CD_V0.30.iso	2/10/2014 2:00 PM	Disc Image File	138,240 KB	
File name: Forensic USB Boot CD_V0.30.iso			✓ ISO Image	*.iso) 🔻		
				Open	▼ Cancel	

7. This will bring you back to the main window. Double-check the settings then click the *Start* button to begin creating the bootable USB flash drive.

A Rufus v1.4.3.385				
Device 🔕				
NO_LABEL (E:)				
Partition scheme and target system type				
MBR partition scheme for BIOS or UEFI computers				
File system				
FAT32				
Cluster size				
4096 bytes (Default)				
New volume label				
Debian wheezy 20140129-15:13				
Format Options				
Check device for bad blocks: 2 Passes				
 ✓ Quick format ✓ Create a bootable disk using: ISO Image ▼ 				
Create extended label and icon files				
About Log Start Close				
Using ISO: Forensic USB Boot CD_V0.30.iso				

8. A warning window will appear stating that all data on the specified device will be destroyed. Make sure it is referring to the correct drive letter where the USB flash drive is located, then click **OK** to continue.





9. The process will start and the USB flash drive will be formatted and overwritten. When the process finishes, the progress bar (above the Start button) will be completely green showing the process has finished.

A Rufus v1.4.3.385
Device 🔕
Debian wheezy 20140129-15:13 (E:)
Partition scheme and target system type
MBR partition scheme for BIOS or UEFI computers
File system
FAT32
Cluster size
4096 bytes (Default)
New volume label
Debian wheezy 20140129-15:13
Format Options 🔽
Check device for bad blocks: 2 Passes
Quick format
✓ Create a bootable disk using: ISO Image ▼ ✓ Create extended label and icon files
About Log Start Close
DONE 00:00:55

 Click the *Close* icon to close Rufus. The USB flash drive is now bootable and will contain the Logicube Forensic boot image to use with the Talon Enhanced, Forensic Dossier, Forensic Quest, or Forensic Falcon. This bootable USB flash drive can be used instead of the Forensic boot CD.

Technical Support Information

For further assistance please contact Logicube Technical Support at: (001) 818 700 8488 7am-5pm PST, M-F (excluding US legal holidays) or by email to techsupport@logicube.com