Restoring a clone image

The restored clone image file has the identical setup configuration as the source hard disk drive from which it was originally created.

NOTE: If you are replacing hardware components in the Fiery Server in addition to using the Fiery Clone Tool, it is best to complete service procedures before using the Fiery Clone Tool. Only an authorized service technician should replace Fiery Server hardware.

Before restoring a clone image

| IMPORTANT |

If you are restoring a clone image to a replacement hard disk drive, the replacement hard disk drive must have the same or larger capacity as the original hard disk drive. The Fiery Clone Tool cannot restore an image to a smaller capacity replacement hard disk drive.

TO RESTORE A CLONE IMAGE

1 On a Windows computer, verify that the USB flash drive has the correct cloned image file for the Fiery Server.

   • Insert the USB flash drive into a USB port on the Windows computer.

   • In Windows Explorer, open the USB flash drive to check the files.

2 Attach the USB drive to an available USB port on the Fiery Server.

3 Set service switch 1 up (ON), and service switch 2 down (OFF) (see "About using Fiery Clone Tool").

   Service switch binary configuration: [1, 0].

4 Reboot the Fiery Server.

5 Allow the Fiery Server to reboot from the USB flash drive to start Fiery Clone Tool.

6 Wait until the LED flashes "AA" then "00" repeatedly to indicate ready status.

7 Set both service switches down (OFF).

   Service switch binary configuration: [0, 0].

   The LED displays "C0" to indicate that the Fiery Server is ready to be restored.

| IMPORTANT |

After setting the service switch positions, you have 10 seconds to revert back to ready status (service switch back to 1, 0) before Fiery Clone Tool begins restoring from the image file.

Fiery Clone Tool restores the image file. The LED circulates "C1, C2, C3" to indicate the restore procedure is in progress.

When the restore process is complete, the LED flashes "CC", then "00" in one second intervals and repeats to indicate completion status.

If an error occurs during the restore process, the LED flashes "EE", then the error code in half-second intervals. To troubleshoot the error, see "LED error codes".

8 Remove the USB flash drive.

9 Reboot the Fiery Server.

Managing cloned image files

You can manage the cloned image from the USB flash drive. When managing clone image files, use the following guidelines.

- Fiery Clone Tool creates the following file structure:

  \...\[OEM]_[Product Name]_[Platform]_[Date]

  You can rename and move folders anywhere on the USB drive, or on any other storage location. When you rename the cloned image file, enter the date, product name, version, and any additional descriptions. Record the date and product name for future reference.

- Use a descriptive and consistent approach when renaming image files.

- Do not "zip" files or folders within the file location of the clone image files. The Fiery Clone Tool restore function cannot recognize clone images that have been zipped.

- Never remove the *.fci file extension from a clone image file name. The Fiery Clone Tool restore function cannot locate a clone image file name that does not include the *.fci file extension.

- Multiple backup clone image files of the same Fiery Server product can be saved on the same USB flash drive. Every cloned image file will have different date and time stamp information indicating when it was created.

  When you restore the Fiery Server with a USB flash drive that has multiple cloned image files, Fiery Clone Tool uses the most recent version created. If you want to restore with an older cloned image file, you must transfer the most recent version out of the USB flash drive and to another location.

- During the restore process, Fiery Clone Tool reads the Fiery hardware to search for the product information, and checks the USB flash drive for a cloned image file that matches the product information. Fiery Clone Tool checks only the information in the cloned image file to match the product. You can store a mix of cloned images of different products, as well as multiple clone images of the same product with different dates, on the same USB flash drive.

NOTE: If Fiery Clone Tool does not find a cloned image file associated with the Fiery Server product, the cloned image file name might be wrong. Fiery Clone Tool reads the image file to verify the correct product ID and match it for the target product.

- You cannot restore an E100 clone image to an E200, even if it is the same product.

  For example, if you create a clone image of an E100 Fiery Server with v1.1 system software, you cannot restore the clone image to an E200 Fiery Server (which uses the same system software). If you attempt to do this, EE appears and then 00 flashes.

LED error codes

LED error codes flash "EE", then the error code and repeats when an error occurs when using the Fiery Clone Tool.

LED error code	Operation type	Description	Suggested action
11		Failed to retrieve product information.	• It is not a Fiery Server. • If the Fiery Server is found, the hardware might not have initialized properly to retrieve the product name.
02		Unsupported Fiery Server	Product information is found, but Fiery Clone Tool does not support this product.
03		Incorrect number of disks detected.	Check the Fiery Server to verify hard disk drive installation. An incorrect disk configuration was detected, which is not supported by Fiery Clone Tool for Embedded Servers.
05	Backup	Insufficient USB flash disk space	Make sure that the USB flash drive has enough space for the cloned image when you back up the Fiery Server.
08	Backup	File operation error. I/O error when writing to the USB.	1. Run Windows Disk Error Check on the USB flash drive. 2. Prepare the USB flash drive again using the Fiery USB Setup Tool.
09		Missing hard disk drive	Check the Fiery Server to verify hard disk drive installation.
0F	Backup	Failed to write to USB flash drive, or error reading from hard drive.	1. Run Windows Disk Error Check on the USB drive. 2. Re-prepare the USB drive using the Fiery USB Setup Tool. 3. Check the hard disk drive if USB flash drive is working properly, then try again.
10		Failed to read service switch position	Check if the service switch cable is connected properly to the motherboard.
20	Backup	Encountered an unsupported file system on the Fiery Server	The Fiery Server is not properly installed. Reinstall the Fiery Server. NOTE: If Fiery Clone Tool cannot read the hard disk drive partition, then the backup procedure cannot be performed.
21	Backup and restore	Failed to mount hard disk drive partition	The Fiery Server is not properly installed. Reinstall the Fiery Server. If Fiery Clone Tool cannot mount the hard disk drive partition, then the backup procedure cannot be performed. For Windows servers only: If an error occurs due to an incorrect reboot, we recommend that you run Check Disk (a standard Windows utility). For more information about Check Disk, go to microsoft.com.
30	Backup	Some Fiery files are missing (corrupt installation).	The Fiery Server might not be running properly. Reinstall the Fiery Server.
31	Backup	Detected multiple USB drives (only allow one USB flash drive to be inserted).	Remove all USB flash drives that are connected to the Fiery Server, and insert only the bootable USB flash drive for the backup or, restore process.
40	Restore	No valid image(s) to restore	Check the USB flash drive to verify that you have the correct cloned image file for the Fiery Server.

LED error code	Operation type	Description	Suggested action
41	Restore	Cloned image file is for the correct product, but feature set does not match.	Check the USB flash drive to verify that you have the correct cloned image file that match the same feature set for the Fiery Server.
42	Restore	Clone image file is for correct product, but hard disk drive is too small.	Make sure to install the hard disk drive that has the default factory size for storage (meets the minimum hard disk drive space requirement for Fiery Clone Tool), or greater.
43	Restore	Failed to format hard disk drive	Replace the hard disk drive.
44	Restore	The USB flash drive may have a corrupted cloned image file, or your had disk drive cannot be accessed.	1. Run Windows Disk Error Check on the USB flash drive. 2. Prepare the USB flash drive again using the Fiery USB Setup Tool. 3. Use another computer with an external connection to format the hard disk drive, if Fiery Clone Tool cannot write to the hard disk drive. 4. If the above actions do not work, replace the hard disk drive.
45		Failed to install bootloader	1. Use another computer with an external connection to format the hard disk drive, if Fiery Clone Tool cannot write to the hard disk drive. 2. If the above actions do not work, replace the hard disk drive.