Designjet T2500 eMFP Series

Certificate of Volatility

Introduction

This document is a statement regarding the volatility of customer data stored in HP Designjet T2500 eMFP Series memory devices and hard disk drives.

The printer uses volatile memory to store customer data during the printing process. When the printer is turned off, the volatile memory is erased.

The printer uses non-volatile memory to store device configuration information. This non-volatile information is used to initialize the volatile memory when the printer is turned on and at the beginning of a print job.

The printer also contains a hard disk drive that retains data after the printer is powered off.

Volatile memory

Volatile memory in the HP Designjet T2500 eMFP Series includes:

- Main RAM memory. 1.5 GB by default. Used as system memory. All information is erased when the printer is powered off.
- I/O Card: 128MB used to manage printer communications. All information is erased when the printer is powered off.
- Other volatile memory used as the main memory for some ASICs or as microprocessor cache.
- SDRAM memory. 512 MB. Located on the scanner module. Used by this module for scan job processing.
- SRAM memory. 12 MB. Located on the scanner module. Used by this module for scan job processing.

Non volatile memory

Non volatile memory components in the HP Designjet T2500 eMFP Series include:

- NVRAM – BIOS. 2 MB. Does not contain user data. Its purpose is to act as the BIOS bootloader.

- CMOS Memory. 256 Bytes. Does not contain user data. Its purpose is to contain BIOS parameters.
- NVM in ink supplies. 1KB per ink cartridge. Contains usage information and control parameters for the ink supply.
- NVM in printheads. 256 bits per printhead. Contains usage information and control parameters for the printhead.
- NVM at line sensor. 2KB. Contains calibration tables for the sensor.
- NVM at analog encoder PCA. 256 KB. Contains printer settings and calibrations; it also contains usage counters. It can be reset to factory defaults by a service engineer.
- NVM. 64 Kbit. Mounted on the RFID Tag. Contains a copy of the printer identification values. It is not possible to clear the memory.
- NVM 18 Kbyte. Mounted on a chip. Contains a copy of the printer identification values.
- NVM in service station. 1Kbyte. Mounted on a board that controls the printhead cleaning station to manage the cleaning station.
- NVM in printhead carriage. 640 bytes. Contains information and control parameters for the printhead.
- NVM in I/O Card. 18 Kbytes. Contains information with the control parameters for the Gigabit Ethernet card.
- Scanner module NVM. 129 MB. Contains information about the boot sequence of this part and does not store user information. The memory is located on the main board.

Hard Disk Drives

The printer contains a 320GB hard disk drive with different purposes. It is not possible to operate the printer without the hard disk drive.

User information can be stored in 5 different partitions of the hard disk drive, and includes:

- Calibration data and printer settings.
- User plots (in rasterized format, i.e. already processed).
- User plots in native format (plots submitted to the Job Storage of the printer).
- Accounting information.
- Usage information.

An additional partition holds user information:

- Scan temporal files

There are different options to erase part of the user information on the hard drive:

- User plots in native format stored in the Job Storage folder of the printer can be erased manually by users with administrative access to the printer's Embedded Web Server.
- User plots in rasterized format (in the printer's queue) can be erased from the queue by users with administrative access to the printer's Embedded Web Server or with access to the printers front panel.
- Temporary scan files can be erased from the queue by accessing the printers front panel.
- Calibration data, printer settings, usage information, and accounting information can be erased by service engineers.

The HP Designjet T2500 eMFP supports Secure Disk Erase and Secure File Erase according to the U.S. Department of Defense 5220-22.M specification.

Secure Disk Erase and Secure File Erase allow erasing the information from the Hard Disk drive in a secure mode which makes it impossible to recover the information. It is also possible to trigger a Secure Disk Wipe which will use the U.S. Department of Defense 5220-22.M specification to erase all data from hard disk partitions that contain user data.

For more information about this feature, please check the "HP Designjet Printers Series - Security Features" whitepaper.