**HP Designjet T1600, T2600 MFP and XL3600 MFP Series - Certificate of Volatility**

## Introduction

The following is a statement regarding the volatility of customer data stored in memory devices and hard disk drives of the HP Designjet T1600 Printer Series and the HP Designjet T2600 and XL3600 MFP Series.

The printer uses volatile memory to store customer data during the printing process. When the printer is turned off, this 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 HP Designjet T1600 Printer Series and the HP Designjet T2600 and XL3600 MFP Series include:

- XL3600 Main RAM memory.  8GBytes by default. Used as system memory. All information is erased when the printer is powered off.
- T1600 Main RAM memory.  4GBytes by default. Used as system memory. All information is erased when the printer is powered off.
- T2600 Main RAM memory.  8GBytes by default. Used as system memory. 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 scanner module. Used by this module for scan job processing.
- SRAM memory. 12 MB. Located on scanner module. Used by this module for scan job processing.

## Non volatile memory

Non volatile memory components in HP Designjet T1600 Printer and T2600 and XL3600 MFP Series include:

- XL3600 NVRAM – BIOS. 128 Mbits. It does not contain user data. Its purpose is to act as the bootloader for the BIOS.
- T2600 NVRAM – BIOS. 16 MBytes. It does not contain user data. Its purpose is to act as the bootloader for the BIOS.

- T1600 NVRAM – BIOS. 8 KBytes store parametres for front panel video configuration.
- NVM in ink supplies. 128 Bytes per ink cartridge. It contains usage information and control parameters for the ink supply.
- NVM in printheads. 265 bits per printhead. It contains usage information and control parameters for the printhead.
- NVM in printhead carriage PCA. 640 bytes that contains information and control parameters for the printhead.
- NVM 256 KBytes. Mounted on a chip contains a copy of the printer identification values.
- NVM at line sensor 16Kbits. It contains calibration tables for the sensor.
- NVM at analog encoder PCA. 256 KBytes. It 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's not possible to clear the memory.
- NVM in service station 1Kbyte. Mounted on a board that controls the printhead cleaning station to manage the cleaning station.
- NVM 8 Kbits. It contains information with the control parameters for the Lan Interface.
- NVM Flash 2 MBytes. Main memory for internal Lan Interface.
- Scanner module NVM. 129 MB - It contains information about boot sequence of this part and it doesn't storage user information. This memory is located on the main board of it.

## Hard Disk drives

The printer in HP Designjet T1600 Printer Series and the HP Designjet T2600 and XL3600 MFP Series contains a 500GBytes hard disk drive hard disk drive which has 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 can include:

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

For the T2600 and XL3600 MFP, an additional partition will hold user information:

- Scan temporal files.

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

- 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 printer's front panel.
- Scan temporal files can be erased from the queue by accessing the printer's front panel.
- Calibration data, printer settings, usage information and accounting information can be erased by service engineers.

HP Designjet T1600, T2600 and XL3600 support 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 have this information recovered. It's 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 "Secure Disk Erase for HP Designjet printers" whitepaper.