MTS400P Portable MPEG Test System Declassification and Security

Instructions

www.tektronix.com

077-0209-00

Tektronix

Contacting Tektronix

Tektronix, Inc.
14200 SW Karl Braun Drive
P.O. Box 500
Beaverton, OR 97077
USA

For product information, sales, service, and technical support:

- In North America, call 1-800-833-9200.
- Worldwide, visit www.tektronix.com to find contacts in your area.

Table of Contents

Preface

This document helps customers with data security concerns to sanitize or remove memory devices from the MTS400P Portable MPEG Test System.

This product has data storage (memory) devices and data output devices (USB ports). These instructions tell how to clear or sanitize the memory devices and disable the data output devices.

Products

The following Tektronix products are covered by this document:

- MTS400P Portable MPEG Test System

Related Documents

The *MTS400P Portable MPEG Test System Service Manual*, Tektronix part number 077-0201-xx, is available on the Tektronix Web site, at www.tektronix.com/manuals.

Terms

The following terms may be used in this document:

- **Clear.** This removes data on media/memory before reusing it in a secured area. All reusable memory is cleared to deny access to previously stored information by standard means of access.
- **Erase.** This is equivalent to clear.
- **Media storage/data export device.** Any of several devices that can be used to store or export data from the instrument, such as a USB port.
- **Nonvolatile memory.** Data is retained when the instrument is powered off.
- **Power off.** Some instruments have a "Standby" mode, in which power is still supplied to the instrument. For the purpose of clearing data, putting the instrument in Standby mode does not qualify as powering off. For these products, you will need to either press a rear-panel OFF switch or remove the power source from the instrument.
- **Remove.** This is a physical means to clear the data by removing the memory device from the instrument. Instructions are available in the product Service Manual.
- **Sanitize.** This eradicates the data from media/memory so that the data cannot be recovered by other means or technology. This is typically used when the device will be moved (temporarily or permanently) from a secured area to a non-secured area.
- **Scrub.** This is equivalent to sanitize.
- **User-modifiable.** The user can write to the memory device during normal instrument operation, using the instrument interface or remote control.
- **Volatile memory.** Data is lost when the instrument is powered off.

Clear and Sanitize Procedures

Memory Devices

The following tables list the volatile and nonvolatile memory devices in the standard instrument and listed options. Detailed procedures to clear or sanitize these devices, if any, are shown following each table.

Table 1: Volatile memory devices

Type and minimum size	Function	User modifiable	Data input method	Location	To clear	To sanitize
RAM 256 MB	Microprocessor system memory	No	Written by processor system	GbE card	None	Remove the power source from the instrument for at least 20 seconds.
SDRAM 64 MB	Mega FIFO	No	Written by processor system	A12 Main board	None	Remove the power source from the instrument for at least 20 seconds.
DDRAM 1 GB	Processor system memory	No	Written by processor system	CPU Processor module	None	Remove the power source from the instrument for at least 20 seconds.
SRAM	Cache RAM	No	Written by processor system	CPU Processor module	None	Remove the power source from the instrument for at least 20 seconds.

Table 2: Nonvolatile memory devices

Type and minimum size	Function	User modifiable	Data input method	Location	To clear	To sanitize
Flash 16 M x 8 bits	Holds card firmware and IGMP subscription details.	Yes	User input	GbE card	None	Delete IGMP addresses in the UI.
Serial Flash 64 Mbit	Holds FPGA image	No	Firmware operations	GbE card	None	None
Serial Flash	Holds FPGA PCI configuration	No	Factory configuration	A170 LVDS/ASI/SMPTE310 board	None	None
EEPROM	Holds installed options	No	Factory configuration	A12 Main board	None	None
EEPROM	Holds FPGA image	No	Factory configuration	A12 Main board	None	None

Table 2: Nonvolatile memory devices (cont.)

Type and minimum size	Function	User modifiable	Data input method	Location	To clear	To sanitize
Flash	BIOS	No	Factory configuration	CPU Processor module	None	None
Fixed IDE Hard Drive	Holds the operating system and application software. Holds user storable data such as test streams and measurement results.	Yes	Firmware operations, user input	Mounted on chassis	Erase or reformat the hard drive, using commercial software. Then reinstall Microsoft Windows and the instrument software using the supplied recovery discs.	Remove the hard drive from the instrument. Store the removed hard drive in a secure area or destroy it.

Clear IGMP Subscriptions

1. Access the UI with the GbE card.
2. Select the interface card screen.
3. Select the IGMP sessions display.
4. Select multi-igmp mode.
5. For each address to be deleted:
   a. Type the IP address in the IGMP delete box.
   b. Press the Enter button.

Data Export Devices

The following table lists the data export devices in the standard instrument and listed options.

Table 3: Data export devices

Type and minimum size	Function	User modifiable	Data input method	Location	To disable
LAN Ethernet connector	Transfer data	N/A	N/A	CPU Processor module	N/A
LAN Ethernet connector	Transfer data	N/A	N/A	Triton Interface card	N/A
USB port	USB devices can store data such as transport streams, measurement results, and instrument settings.	Yes	User writable	Instrument front panel	Remove all USB memory devices. USB devices can be reformatted, stored in a secure area, or destroyed.

Troubleshooting

How to Clear or Sanitize a Nonfunctional Instrument

If your instrument is not functioning and you need to clear or sanitize it, proceed as follows:

GbE Card This card stores a list of IGMP subscription addresses in use. If this needs to be sanitized then it must be returned to Tektronix.