

Tektronix BERTScope BSAITS Declassification and Security Instructions

www.tektronix.com



077-0695-00

Tektronix

Copyright © Tektronix. All rights reserved. Licensed software products are owned by Tektronix or its subsidiaries or suppliers, and are protected by national copyright laws and international treaty provisions.

Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specifications and price change privileges reserved.

TEKTRONIX and TEK are registered trademarks of Tektronix, Inc.

Contacting Tektronix

Tektronix, Inc.
14150 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 | iii |
| Clear and Sanitize Procedures..... | 1 |
| Memory Devices..... | 1 |
| Media and Data Export Devices | 2 |
| How to Clear or Sanitize media | 2 |
| Troubleshooting..... | 5 |
| How to Clear or Sanitize a Nonfunctional Instrument..... | 5 |
| Change Log | 6 |

Preface

This document helps customers with data security concerns to sanitize or remove memory devices from the Tektronix BSAITS125 and BSAITS125OPEXP PCIe Interference Test Sets.

These products have 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. The instructions also tell how to declassify an instrument that is not functioning.

- Reference** The procedures in this document are written to meet the requirements specified in:
- NISPOM, DoD 5220.22–M, Chapter 8
 - ISFO Process Manual for Certification & Accreditation of Classified Systems under NISPOM

- Products** The following Tektronix products are covered by this document:
- BSAITS125 ISI Switch Instrument
 - BSAITS125 OPEXP ISI Switch Instrument

- 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.
 - **Instrument Declassification.** A term that refers to procedures that must be undertaken before an instrument can be removed from a secure environment. Declassification procedures include memory sanitization and memory removal, and sometimes both.
 - **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.

- **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 Accessible.** User is able to directly retrieve the memory device contents.
- **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. Detailed procedures to clear or sanitize these devices, if any, are shown following each table.

Terminology

The following terms are used in the tables in this section:

- User data – Describes the type of information stored in the device. Refers to waveforms or other measurement data representing signals connected to the instrument by users.
- User settings – Describes the type of information stored in the device. Refers to instrument settings that can be changed by the user.
- Both – Describes the type of information stored in the device. It means that both user data and user settings are stored in the device.
- None – Describes the type of information stored in the device. It means that neither user data nor user settings are stored in the device.
- Directly – Describes how data is modified. It means that the user can modify the data.
- Indirectly – Describes how data is modified. It means that the instrument system resources modify the data and that the user cannot modify the data.

Table 1: Nonvolatile memory devices

| Type and min. size | Function | Type of user info stored | Method modification | Data Input method | Location | User accessible | To clear | To sanitize |
|--------------------|----------------------|--------------------------|---------------------|-----------------------|----------|-----------------|--|--|
| FRAM 64KB | Stores configuration | Product serial number | None | Factory configuration | Internal | No | Not applicable; does not contain user data or settings. Clearing would disable instrument functionality. | Not applicable; does not contain user data or settings. Clearing would disable instrument functionality. |

Media and Data Export Devices

The following table lists the data export devices in the standard instrument and listed options. Detailed procedures to disable these devices, if any, are shown following the table.

Table 2: Media and data export devices

| Type and min. size | Function | Method of modification | Data Input method | Location | Process to disable |
|---|--|------------------------|-------------------|------------------------|--|
| USB host port (supports Kanguru ALK-2G FlashBlu 2, 2GB removable flash drive) | Storing serial number, options and S-Parameter performance data for read-back by system software | None | None | Internal to instrument | Flash drive can be removed and stored in secure area or destroyed. |

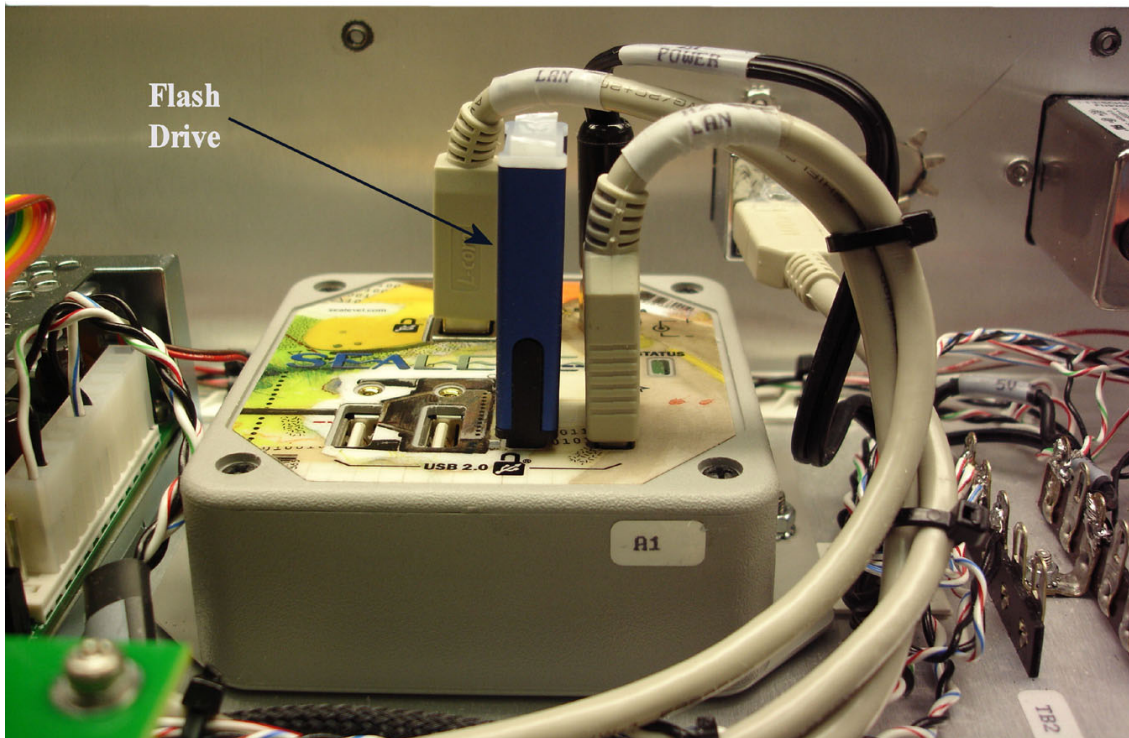
How to Clear or Sanitize media

To clear or sanitize media, perform the following procedures.

Remove the flash drive

Remove the flash drive and return the instrument to Tektronix. A new flash drive will be installed and the instrument will be repaired and adjusted as necessary with the serial number and data stored on flash drive.

1. Refer to the procedures to remove the chassis from the instrument enclosure. (See page 4, *Disassemble the instrument.*)
2. Locate the flash drive in the USB hub and remove.



3. Follow your company's internal procedures for storing or disposal of the flash drive. Your product will be returned with a new flash drive with the required files stored on it.
4. Refer to the procedures to reinstall the chassis in the instrument (See page 4, *Reassemble the instrument.*)

Product disassembly procedures

Follow the procedures in this section to disassemble the instrument to remove the flash drive from the USB hub.

You will need a screwdriver or screwdriver handle with the following tips: #1 and #2 phillips screw driver to disassemble and reassemble the instrument.



WARNING. To avoid electric shock, always power off the instrument and disconnect the power cord before cleaning or servicing the instrument.



CAUTION. Many components within the instrument are susceptible to static discharge damage. Service the chassis only in a static-free environment.

Observe standard handling precautions for static-sensitive devices while servicing the instrument.

Always wear a grounded wrist strap, or equivalent, while servicing the instrument.

External Memory Devices Remove any USB flash drives or external hard drives from the instrument.

- Disassemble the instrument**
1. Disconnect the power cord from the instrument and set the instrument on a static-free, soft surface.
 2. Remove the Warranty is Void label from the rear of the instrument.
 3. Remove the 3 screws from the top front of the instrument, 7 screws from each side, and 7 screws from the rear panel. Don't remove the screws from the power cord connector module.
 4. Slide the cover, pulling from the rear, approximately ¼ to ½ inch away from the front panel bezel.
 5. Lift the front of the cover up, then pull out on the sides, remove the cover, and set the cover aside.

- Reassemble the instrument**
1. While pulling out on the sides of the cover, from the front, lower the cover down onto the instrument.
 2. Once the cover is firmly set down on instrument, slide the cover forward until the front of the cover slides under the front panel bezel.



CAUTION. *To avoid damaging the power cord connector, center the power connector in the hole as you tighten the screws.*

3. Align the cover screw holes up with the chassis holes and insert the screws into their holes. Do not tighten the screws until all of them have been inserted. Once all screws are in the holes, tighten them.

Charges Replacement of any missing hardware will be charged according to the rate at the time of replacement.

Troubleshooting

How to Clear or Sanitize a Nonfunctional Instrument

If your instrument is not functioning, perform the following actions and return the instrument to Tektronix for repair. Describe the initial problem with the product. Tektronix will install replacement parts and then repair and return the instrument.

Internal memory devices Remove the USB flash drive from the instrument. (See page 2, *Remove the flash drive.*) (See page 4, *Disassemble the instrument.*)

Charges Replacement of any missing hardware will be charged according to the rate at the time of replacement.

Change Log

Provide a brief description of changes for each release of the document.

| Document part number | Revision date | Change description |
|-----------------------------|----------------------|---------------------------|
| 077-0695-00 | July 2012 | Initial version. |
| | | |
| | | |