Tektronix®

**RSA306B
Real-Time Spectrum Analyzer
Declassification and Security**

Instructions

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Table of Contents

RSA306B Declassification and Security Instructions

Preface

This document helps customers with data security concerns to sanitize or remove memory devices from the Tektronix RSA306B Real-Time Spectrum Analyzer.

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. 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

Required documents

No external documents are required to perform the procedures in this document.

Terms that may be used in this document

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. 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 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.

- **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.

Device terms

- **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.

Memory devices

Volatile memory devices

Type and min. size	Function	Type of user info stored	Backed up by battery	Method of modification	Data Input method	Location	User accessible	To clear	To sanitize
CYUSB3014	USB3 interface	Spectrum data in FIFOs	No	Run the instrument	Firmware operations	USB	No	Disconnect power for at least 5 seconds.	Disconnect power for at least 5 seconds.

Non-volatile memory devices

Type and min. size	Function	Type of user info stored	Method of modification	Data Input method	Location	User accessible	To clear	To sanitize
4 MB Flash	Holds USB and FPGA images, calibration constants, and board ID	None	USB 3.0	Firmware operations	U50	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.

Data export devices   There are no media or export devices that require declassification or security procedures with this product.

Clear or sanitize a non-functional instrument

If your instrument is not functioning, return the instrument to Tektronix for repair. No user data is stored on the instrument when the power is removed. Clearing or sanitizing the instrument is not applicable.

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