



Agilent E6618A Multiport Adapter

For use with Agilent E6630A Wireless
Connectivity Test Set

Security Features and Document of Volatility



Agilent Technologies

Notices

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Where to Find the Latest Information

Documentation is updated periodically. For the latest information about these products, including instrument software upgrades, application information, and product information, see the following URLs:

<http://www.agilent.com/find/E6618A>

To receive the latest updates by email, subscribe to Agilent Email Updates:

<http://www.agilent.com/find/emailupdates>

Information on preventing instrument damage can be found at:

<http://www.agilent.com/find/tips>

Is your product software up-to-date?

Periodically, Agilent releases software updates to fix known defects and incorporate product enhancements. To check for software updates for your product, go to the Agilent Technical Support website at:

http://www.agilent.com/find/ext_software

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2 Contacting Agilent Sales and Service Offices

Assistance with test and measurement needs, and information to help you find a local Agilent office, is available via the internet at, <http://www.agilent.com/find/assist>. If you do not have internet access, please contact your designated Agilent representative.

NOTE

In any correspondence or telephone conversation, refer to the instrument by its model number and full serial number. With this information, the Agilent representative can determine whether your unit is still within its warranty period.



3 Products Covered by this Document

| Product Name | Model Numbers |
|--------------|---------------|
|--------------|---------------|

| | |
|--|--------|
| Multiport Adapter (for use with E6630A Wireless Connectivity Test Set) | E6618A |
|--|--------|

This document describes instrument memory types and security features. It provides a statement regarding the volatility of all memory types, and specifies the steps required to declassify an instrument through memory clearing, sanitization, or removal.

For additional information, go to:

<http://www.agilent.com/find/security>

IMPORTANT

Be sure that all information stored by the user in the instrument that needs to be saved is properly backed up before attempting to clear any of the instrument memory. Agilent Technologies cannot be held responsible for any lost files or data resulting from the clearing of memory.

Be sure to read this document entirely before proceeding with any file deletion or memory clearing.

Products Covered by this Document



4 Security Terms and Definitions

| Term | Definition |
|------------------------------------|--|
| Clearing | As defined in Section 8-301a of DoD 5220.22-M, “National Industrial Security Program Operating Manual (NISPOM)” , clearing is the process of eradicating the data on media before reusing the media so that the data can no longer be retrieved using the standard interfaces on the instrument. Clearing is typically used when the instrument is to remain in an environment with an acceptable level of protection. |
| Instrument Declassification | A term that refers to procedures that must be undertaken before an instrument can be removed from a secure environment, such as is the case when the instrument is returned for calibration. Declassification procedures include memory sanitization or memory removal, or both. Agilent declassification procedures are designed to meet the requirements specified in DoD 5220.22-M, “National Industrial Security Program Operating Manual (NISPOM)” , Chapter 8. |
| Sanitization | <p>As defined in Section 8-301b of DoD 5220.22-M, “National Industrial Security Program Operating Manual (NISPOM)”, sanitization is the process of removing or eradicating stored data so that the data cannot be recovered using any known technology. Instrument sanitization is typically required when an instrument is moved from a secure to a non-secure environment, such as when it is returned to the factory for calibration.</p> <p>Agilent memory sanitization procedures are designed for customers who need to meet the requirements specified by the US Defense Security Service (DSS). These requirements are specified in the “Clearing and Sanitization Matrix” in Appendix O of the ODAA Process Guide for C&A of Classified Systems under NISPOM.</p> |
| Secure Erase | Secure Erase is a term that is used to refer to either the clearing or sanitization features of Agilent instruments. |



5 Instrument Memory & Document of Volatility

This chapter summarizes all memory types in the instrument.

The descriptions are divided between:

1. [Non-Volatile Memory](#),
2. [Volatile Memory](#).

Non-Volatile Memory

This section contains information on the memory components available in your instrument.

The table provides details of the size of each memory component, its type, how it is used, its location, volatility, and the sanitization procedure.

NOTE The instrument contains no user-accessible non-volatile memory, except for the Disk Drive described in Item 7 of [Table 5-1](#). For this reason, as indicated in the tables below, no sanitization procedure is required for any memory component except the Disk Drive.

Table 5-1 Summary of Non-Volatile instrument memory

| Memory Component, Type and Size | Writable During Normal Operation? | Data Retained When Powered Off? | Purpose/Contents | Data Input Method | Location in Instrument and Remarks | Sanitization Procedure |
|--|--|--|---|--|--|-------------------------------|
| 1. Config & Cal Memory 1 kbit | No | Yes | Header EEPROM used to identify the E6618A with a USB ID. | Programmed before installation. | PC board E6618-63001 Contains no user data. | Turn off power.. |
| 2. Config (EEPROM) 64 Mbit | No | Yes | Header EEPROM used to identify the assembly. | Programmed before installation. | PC board E6618-63001 Contains no user data. | None. |
| 3. Config Memory (Flash) 8 Mbit | No | Yes | Contains measurement and control software, which is preloaded into FPGA during instrument power-up. | Programmed before installation. | PC board E6618-63001 Contains no user data. | None. |
| 4. Cal Memory (EEPROM) 3 X 64 Mbit | No | Yes | Contains RFIO assembly unique calibration data to achieve accuracy and specifications. | Programmed by the factory or service center. | PC board E6618-63001 Contains no user data. | None. |

Volatile Memory

The volatile memory in the instrument does not have battery backup. It does not retain any information when AC power is removed.

Removing power from this memory meets the memory sanitization requirements specified in the “Clearing and Sanitization Matrix” in Appendix O of the [ODAA Process Guide for C&A of Classified Systems under NISPOM](#).

Table 5-2 Summary of Volatile Instrument Memory

| Memory Type and Size | Writable During Normal Operation? Data Retained When Powered Off? | | Purpose/Contents | Data Input Method | Location in Instrument and Remarks | Sanitization Procedure |
|----------------------|--|----|---------------------------------------|--|--|----------------------------|
| 1. Block RAM on FPGA | Yes | No | Contains measurement sequence states. | Programmed by firmware; not user-accessible. | PC board E6618-63001 Contains no user data. | Turn off instrument power. |



6 Memory Clearing, Sanitization and/or Removal Procedures

This section explains how to clear, sanitize, and remove memory from your instrument, for all types of non-volatile memory that can be written to during normal instrument operation.

Table 6-1 Disk Drive

Note The E6618A does not include a disk drive.

Table 6-2 EEPROM Memories

| | |
|--------------------------------|---|
| Description and purpose | Used to identify the assemblies (header info) and store option configuration data and calibration data. This memory cannot be written to during instrument operation. |
| Size | 1 kbit to 64 Mbit |
| Memory clearing | Not applicable. This memory does not contain user information and is not accessible by the user. |
| Memory sanitization | Not applicable. This memory does not contain user information and is not accessible by the user. |
| Memory removal | Not applicable. |
| Write protecting | Not applicable. |
| Memory validation | Not applicable. |
| Remarks | These memories are only writable by factory/service center software, or upgrade installation software. |

Table 6-3 *Flash Memories*

| | |
|--------------------------------|--|
| Description and purpose | Used to hold factory software for FPGAs. The software is loaded when the instrument powers up. This memory cannot be written to during instrument operation. |
| Size | 8 Mbit |
| Memory clearing | Not applicable. This memory does not contain user information and is not accessible by the user. |
| Memory sanitization | Not applicable. This memory does not contain user information and is not accessible by the user. |
| Memory removal | Not applicable. |
| Write protecting | Not applicable. |
| Memory validation | Not applicable. |
| Remarks | These memories are only writable by factory/service center software, or upgrade installation software. |



7 User and Remote Interface Security Measures

The E6618A Multiport Adapter does not have a stand-alone remote interface; instead, it is operated as a USB accessory to the E6630A Wireless Connectivity Test Set, and is controlled through the E6630A, not independently. No remote interface security measures apply to the E6618A specifically. Interface information and security information applicable to the E6630A is available at:

http://www.agilent.com/find/E6630A_manuals



A: References

1. **DoD 5220.22-M, "National Industrial Security Program Operating Manual (NISPOM)"**
United States Department of Defense. Revised February 28, 2006.
May be downloaded in Acrobat (PDF) format from:
http://www.dss.mil/isp/fac_clear/download_nispom.html
2. **ODAA Process Guide for C&A of Classified Systems under NISPOM**
Defense Security Service.
DSS-cleared industries may request a copy of this document via email, by following the instructions at:
<http://www.dss.mil/isp/odaa/request.html>
3. **Agilent E6618A Multiport Adapter: Getting Started Guide**
Agilent Technologies Inc. 2013. Part Number: E6618-90001 (subject to revision).
A printed copy of this document is supplied with each instrument.
It is also available in Acrobat (PDF) form:
 - via download from:
<http://www.agilent.com/find/e6618a>
4. **Microsoft Knowledge Base Article ID: 967715**
"How to disable the Autorun functionality in Windows": may be viewed at:
<http://support.microsoft.com/kb/967715>
Note that a second article, at: <http://support.microsoft.com/kb/953252>, "How to correct 'disable Autorun registry key' enforcement in Windows", redirects to article ID 967715.