

Security Features and Volatility Documentation

Keysight Technologies
Model Numbers

N1500A
85070E
85070EU
85071E
85071EU

Product Family

N1500A Software
8507xE Software



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Contacting Keysight Sales and Service Offices

Assistance with test and measurements needs and information on finding a local Keysight office is available on the internet at, <http://www.keysight.com/find/assist>. If you do not have access to the internet, please contact your field engineer.

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

Product Declassification and Security

Product Name: Materials Measurement Suite, Dielectric Probe Kit, Dielectric Probe Kit software upgrade kit, Materials Measurement Software, and Materials Measurement Software upgrade kit.

Model Numbers: N1500A, 85070E, 85070EU, 85071E, 85071EU

Product Declassification and Security

Model Number(s): N1500A,

Product Name: Materials Measurement Suite

Product Family Name: N1500A Software

Alternate Product Numbers: na

Model Number(s): 85070E, 85070EU, 85071E, and 85071EU

Product Name: Dielectric Probe Kit, Dielectric Probe Kit software upgrade kit, Materials Measurement Software, and Materials Measurement Software upgrade kit.

Product Family Name: 8507xE Series Software

Alternate Product Numbers: na

Introduction

This document describes instrument security features and the steps to declassify an instrument through memory sanitization or removal. For additional information please go to <http://www.keysight.com/find/ad> and click on the security instrument tab.

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Terms and Definitions

Definitions:

Clearing – 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.

Sanitization – 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. (The instrument is declassified) Keysight memory sanitization procedures are designed for customers who need to meet the requirements specified by the US Defense Security Service (DSS). These requirements are outlined in the “Clearing and Sanitization Matrix” issued by the Cognizant Security Agency (CSA) and referenced in National Industrial Security Program Operating Manual (NISPOM) DoD 5220.22M ISL 01L-1 section 8-301.

Security erase – Security erase is a term that is used to refer to either the clearing or sanitization features of Keysight instruments.

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 will include memory sanitization and or memory removal. Keysight declassification procedures are designed to meet the requirements specified by the DSS NISPOM security document (DoD 5220.22M chapter 8)

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Instrument Memory and Volatility Information

This section contains information on the types of memory available in your instrument. It explains the size of memory, how it is used, its location, volatility, and the sanitization procedure.

Summary of instrument memory - base instrument

Memory Type and Size	Is Memory user accessible as a mass storage device?	Writable During Normal Operation?	Data Retained When Powered Off?	Purpose/Contents	Data Input Method	Location in Instrument and Remarks	Sanitization Procedure
USB Software Security Key, Aladdin HASP HL PRO, EEPROM, 4KB	No	No	Yes	Contains unique ID number needed for the FLEX node locked licensing in the N1500A software.	ID number is programmed into key by vendor.	Shipped in product box. USB key must be connected to USB port on PC or network analyzer to run N1500A software.	No procedure for sanitation

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Memory Clearing, Sanitization and/or Removal Procedures

This section explains how to clear, sanitize, and remove memory from you instrument for all memory that can be written to during normal operation and for which the clearing and sanitization procedure is more than trivial such as rebooting your instrument.

USB Software Security Key

Description and purpose	USB Software Security Key contains ID number for FLEX node locked software licensing.
Size	4KB.
Memory clearing	No procedure for memory clearing.
Memory sanitization	No procedure for memory sanitization.
Memory removal	The USB software security key can be removed from the PC or analyzer and stored in secure location when not in use.
Write protecting	The ID number is programmed into the key by the manufacturer and protected with AES encryption. The memory can only be written to via Aladdin Knowledge Systems software products, not included with N1500A. The memory in the key is not recognized by Windows operating system as a memory storage device.
Remarks	FLEX software, included with N1500A, is required to read the AES encrypted ID number programmed into the key.

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User and Remote Interface Security Measures

Screen and Annotation Blanking

Not available.

USB Mass Storage Device Security

The memory in the key is not recognized by Windows operating system as a memory storage device. The memory can only be written to via Aladdin Knowledge Systems software products, not included with N1500A.

Remote Access Interfaces

The user is responsible for providing security for remote access of any PCs running software. See network analyzer security for specific information regarding remote access to network analyzer.

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Procedure for Declassifying a Faulty Instrument

If the USB Software Security Key becomes faulty, please contact Keysight Technologies service for a replacement. The faulty key may be destroyed.