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Safety Information

A CAUTION notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.
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 one of the following URLs, depending on the model number of your instrument:

http://www.keysight.com/find/mxg
http://www.keysight.com/find/exg
http://www.keysight.com/find/cxg

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

http://www.keysight.com/find/emailupdates

Information on preventing instrument damage can be found at:

http://www.keysight.com/find/PreventingInstrumentRepair

Is your product software up-to-date?

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

http://www.keysight.com/find/techsupport
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1  Contacting Keysight Sales and Service Offices

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

**NOTE**

In any correspondence or telephone conversation, refer to the instrument 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.
Security Features and Document of Volatility
Products Covered by this Document

2  Products Covered by this Document

<table>
<thead>
<tr>
<th>Product Family Name</th>
<th>Product Name</th>
<th>Model Number</th>
<th>Firmware Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Series Signal Generators</td>
<td>MXG Microwave Analog Signal Generator</td>
<td>N5183B</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>MXG RF Vector Signal Generator</td>
<td>N5182B</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>MXG RF Analog Signal Generator</td>
<td>N5181B</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>EXG Microwave Analog Signal Generator</td>
<td>N5173B</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>EXG RF Vector Signal Generator</td>
<td>N5172B</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>EXG RF Analog Signal Generator</td>
<td>N5171B</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>CXG RF Vector Signal Generator</td>
<td>N5166B ≥B.01.80</td>
<td></td>
</tr>
</tbody>
</table>

Document Purpose

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.keysight.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. Keysight 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.
Security Terms and Definitions

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearing</td>
<td>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 in an environment that provides an acceptable level of protection for the data that was on the media before clearing. Hence, clearing is typically used when the instrument is to remain in an environment with an acceptable level of protection.</td>
</tr>
<tr>
<td>Instrument Declassification</td>
<td>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. Keysight declassification procedures are designed to meet the requirements specified in DoD 5220.22-M, “National Industrial Security Program Operating Manual (NISPOM)”, Chapter 8.</td>
</tr>
<tr>
<td>Sanitization</td>
<td>As defined in Section 8-301b of DoD 5220.22-M, “National Industrial Security Program Operating Manual (NISPOM)”, sanitization is the process of removing the data from media before reusing the media in an environment that does not provide an acceptable level of protection for the data that was in the media before sanitizing. Hence, 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. 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 specified in the “Clearing and Sanitization Matrix” in Section 5.2.5.5.5 of the ISFO Process Manual for the Certification and Accreditation of Classified Systems under the NISPOM.</td>
</tr>
<tr>
<td>Secure Erase</td>
<td>Secure Erase is a term that is used to refer to either the clearing or sanitization features of Keysight instruments.</td>
</tr>
</tbody>
</table>
This chapter contains information on the memory components in your instrument and contains the following sections:

- “Current Memory Information” on page 9
- “Past Memory Information” on page 12

The Past memory Information section captures the information where the memory size or any other item changes.
Current Memory Information

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

### Table 4-1 Base Instrument (All models and options)

<table>
<thead>
<tr>
<th>Memory Component, Type and Size</th>
<th>Writable During Normal Operation?</th>
<th>Data Retained When Powered Off?</th>
<th>Purpose/Contents</th>
<th>Data Input Method</th>
<th>Location in Instrument and Remarks</th>
<th>Sanitization Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Main Memory (DRAM) 768 MByte</td>
<td>Yes</td>
<td>No</td>
<td>Firmware operating memory. User data</td>
<td>Operating system</td>
<td>CPU board, not battery backed. Volatile memory.</td>
<td>Turn off instrument power.</td>
</tr>
<tr>
<td>2. Main Memory (Flash) 4 GByte, partitioned as follows:</td>
<td>Yes</td>
<td>Yes</td>
<td>Factory calibration and configuration data User file systemb, which includes flatness calibration, instrument states, and sweep lists</td>
<td>Firmware upgrades and user-saved data</td>
<td>CPU board</td>
<td>Boot Area: no user data User and Secure Storage Areas: see “Erase and Sanitize All (Option 006 Only)” on page 17. Without Option 006, there is no erase, nor erase and sanitize, only declassify, see Chapter 7, “Procedure for Declassifying a Faulty Instrument.”</td>
</tr>
<tr>
<td>200 MByte: Boot (Main firmware image, Operating system)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 MByte: System (Calibration/ Configuration)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 MByte: Secure Storage (Configuration)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.5 GByte: User (User file system)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Front Panel Memory (Flash) 24 KByte</td>
<td>No</td>
<td>Yes</td>
<td>Front panel keyboard controller firmware</td>
<td>Operating system</td>
<td>Front Panel board</td>
<td>None required (no user data)</td>
</tr>
</tbody>
</table>

a Includes system state data
b Includes configuration data and boot code
Table 4-1  Base Instrument (All models and options)

<table>
<thead>
<tr>
<th>Memory Component, Type and Size</th>
<th>Writable During Normal Operation?</th>
<th>Data Retained When Powered Off?</th>
<th>Purpose/Contents</th>
<th>Data Input Method</th>
<th>Location in Instrument and Remarks</th>
<th>Sanitization Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Front Panel Memory (SRAM)</td>
<td>Yes</td>
<td>No</td>
<td>Front panel operating memory</td>
<td>Front panel firmware</td>
<td>Front Panel board Volatile memory.</td>
<td>Turn off instrument power.</td>
</tr>
<tr>
<td>2 KByte</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Front Panel Memory (EEPROM)</td>
<td>No</td>
<td>Yes</td>
<td>Unused</td>
<td>None</td>
<td>Front Panel board</td>
<td>None required</td>
</tr>
<tr>
<td>256 Byte</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. SD Card (Option 006)c,d,e</td>
<td>Yes</td>
<td>Yes</td>
<td>Optional storage of User data</td>
<td>User-saved data</td>
<td>Removable card may be retained in Secure Area</td>
<td>None required</td>
</tr>
<tr>
<td>(Flash)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32 GByte</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a. With Option SDO installed, the 3.5 GB of user data is not available. Option SDO is not supported by the CXG, see Table 2, “Product Family Name.”
b. Analog instruments only.
c. Options 006 and SDO are not supported by the CXG, see Table 2, “Product Family Name.”
d. With Option SDO installed, this location must still be selected as a storage location.
   Option 006 is not required for Option SDO.
e. With ≥SN MY/SG/US5910xxxx, the MultiMediaCard (MNC) memory is not supported. The serial number break is a change in the CPU board to part number 0960-3295. For more information on this change, see “CPU Board Change—Serial Number Break ≥MY/SG/US5910xxxx”.
## Table 4-2 Vector Models with Baseband Generator

<table>
<thead>
<tr>
<th>Memory Component, Type and Size</th>
<th>Writable During Normal Operation?</th>
<th>Data Retained When Powered Off?</th>
<th>Purpose/Contents</th>
<th>Data Input Method</th>
<th>Location in Instrument and Remarks</th>
<th>Sanitization Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Waveform Memory (DRAM)</td>
<td>Yes</td>
<td>No</td>
<td>Waveforms (including header and marker data)</td>
<td>Normal user operation</td>
<td>A2 Vector BBG assembly</td>
<td>Turn off instrument power.</td>
</tr>
<tr>
<td>160 MB to 5.12 GByte</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. SSD (Flash)</td>
<td>Yes</td>
<td>Yes</td>
<td>All user data</td>
<td>Normal user operation</td>
<td>A4 Solid State Disk Drive assembly</td>
<td>Without Option SD0 see “Erase and Sanitize All (Option 006 Only)” on page 17. Without Option 006, there is no erase, nor erase and sanitize, only declassify, see Chapter 7, “Procedure for Declassifying a Faulty Instrument.” With Option SD0, no action needed.a</td>
</tr>
<tr>
<td>40, 128, or 256 GByte, partitioned as follows:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 GByte: Apps</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 GByte: Base User</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remainder: Option 009 Extended User</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calibration Data Memory (Flash)</td>
<td>No</td>
<td>Yes</td>
<td>Factory or service only</td>
<td></td>
<td>None required (no user data)</td>
<td></td>
</tr>
<tr>
<td>128 KByte</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a. Option SD0 removes the SSD so that files are not stored to it. Option 006 (SD card) and USB capability are still valid, Options 006 and SD0 are not supported by the CXG, see Table 2, “Product Family Name.”
Past Memory Information

This section captures prior memory sizes along with its memory component, type, how it is used, its location, volatility, and the sanitization procedure.

Use this section in conjunction with the “Current Memory Information” on page 9, for a complete listing of all memory locations.

NOTE

Changes to the memory size of the internal solid-state drive (SSD) is recorded in Table 4-2 on page 11 of the section “Current Memory Information” on page 9.

This section contains the following section:

– “CPU Board Change—Serial Number Break ≥MY/SG/US5910xxxx” on page 13
CPU Board Change—Serial Number Break ≥MY/SG/US5910xxxx

NOTE
This section applies to only the EXG and MXG.

The serial number break is a change in the CPU board to part number 0960-3295. The old part number is 0960-2870.

To view the board part number, use the following key path:

**Key Sequence:**

Utility > Instrument Info > Installed Board Info

If an instrument with an earlier serial number has a CPU repair, it may then include the upgraded CPU board 0960-3295.

The following table list the CPU memory information that applies to the CPU board part number 0960-2870.

Table 4-3  Base Instrument (All EXG and MXG models and options, except Option SD0)

<table>
<thead>
<tr>
<th>Memory Component, Type and Size</th>
<th>Writable During Normal Operation?</th>
<th>Data Retained When Powered Off?</th>
<th>Purpose/Contents</th>
<th>Data Input Method</th>
<th>Location in Instrument and Remarks</th>
<th>Sanitization Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Main Memory (DRAM) 512 MByte</td>
<td>Yes</td>
<td>No</td>
<td>Firmware operating memory. User data</td>
<td>Operating system</td>
<td>CPU board, not battery backed. Volatile memory.</td>
<td>Turn off instrument power.</td>
</tr>
</tbody>
</table>
## Instrument Memory & Volatility

### Past Memory Information

### 2. Main Memory (Flash)

- **512 MByte**, partitioned as follows:
  - **200 MByte**: Boot (Main firmware image, Operating system)
  - **50 MByte**: System (Calibration/Configuration)
  - **1 MByte**: Secure Storage (Configuration)
  - **180 MByte**: User (User file system)

- Firmware upgrades and user-saved data
- User file system\(^a\), which includes flatness calibration, instrument states, and sweep lists

### 6. SD Card (Option 006) (Flash)

- **8 GByte**
  - Optional storage of User data
  - User-saved data
  - Removable card may be retained in Secure Area

### Table 4-3: Base Instrument (All EXG and MXG models and options, except Option SD0)

<table>
<thead>
<tr>
<th>Memory Component, Type and Size</th>
<th>Writable During Normal Operation?</th>
<th>Data Retained When Powered Off?</th>
<th>Purpose/Contents</th>
<th>Data Input Method</th>
<th>Location in Instrument and Remarks</th>
<th>Sanitization Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Main Memory (Flash)</td>
<td>Yes</td>
<td>Yes</td>
<td>Factory calibration and configuration data</td>
<td>Firmware upgrades and user-saved data</td>
<td>CPU board</td>
<td>Boot Area: no user data User and Secure Storage Areas: see “Erase and Sanitize All (Option 006 Only)” on page 17. Without Option 006, there is no erase, nor erase and sanitize, only declassify, see Chapter 7, “Procedure for Declassifying a Faulty Instrument.”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>User file system(^a), which includes flatness calibration, instrument states, and sweep lists</td>
<td></td>
<td></td>
<td>None required</td>
</tr>
<tr>
<td>6. SD Card (Option 006) (Flash)</td>
<td>Yes</td>
<td>Yes</td>
<td>Optional storage of User data</td>
<td>User-saved data</td>
<td>Removable card may be retained in Secure Area</td>
<td>None required</td>
</tr>
</tbody>
</table>

\(^a\) Analog instruments only.
This chapter describes several security functions you can use to remove sensitive data stored in the instrument before moving it from a secure development environment. The functions described are:

- “Erase All (Option 006 Only)” on page 16
- “Erase and Sanitize All (Option 006 Only)” on page 17
- “Force Internal to SD Card (Option 006 Only)” on page 18
- “Clear Persistent State Information” on page 19

**CAUTION**

These functions do not erase or sanitize external media connected to the instrument’s USB port.
Memory Clearing, Sanitization and Removal Procedures
Erase All (Option 006 Only)

Erase All (Option 006 Only)

**NOTE**
Option 006 is not supported by the CXG, see Table 2, “Product Family Name.”

This function removes all user files, user flatness calibrations, user I/Q calibrations, and resets all table editors with original factory values, ensuring that user data and configurations are not accessible or viewable. The instrument appears as if it is in its original factory state, however, the memory is not sanitized. This action is relatively quick, typically taking less than one minute (the exact time depends on the number of files).

Key Sequence: File > More > Security > Erase All > Confirm Erase

SCPI Command: :SYSTem:SECurity:ERASeall

There is a similar but distinct function, as described below, that deletes all user files but does not reset the table editors:

Key Sequence: File > Delete All Files > Confirm Delete Of All Files

SCPI Command: :MEMory:DELeTe:ALL
Erase and Sanitize All (Option 006 Only)

**NOTE**

Option 006 is not supported by the CXG, see Table 2, “Product Family Name.”

This function performs the same actions as **Erase All**, plus it clears and overwrites the various memory types, as described below.

<table>
<thead>
<tr>
<th>Memory Type</th>
<th>Models</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Flash (Main Memory)</td>
<td>MXG Series B</td>
<td>User and “Secure Storage” partitions on CPU flash are erased by flash vendor firmware. For algorithm details, see the Application Note Greenliant NANDrive Security Erase Feature, Purge Command Specification.</td>
</tr>
<tr>
<td></td>
<td>EXG</td>
<td></td>
</tr>
<tr>
<td>Flash Drive</td>
<td>MXG N5182B</td>
<td>Erased by drive vendor’s firmware, which erases user data area, SSD reserve area, and retired blocks.</td>
</tr>
<tr>
<td></td>
<td>EXG N5172B</td>
<td></td>
</tr>
</tbody>
</table>

Key Sequence:  
File > More > Security > Erase and Sanitize All > Confirm Sanitize

SCPI Command:  
:SYSTem:SECurity:SANitize
Force Internal to SD Card (Option 006 Only)

**NOTE**

Option 006 is not supported by the CXG, see Table 2, “Product Family Name.”

The options for this setting are **Off** or **On**:

- **On**: Forces all internal settings and files to be stored only on the external SD memory card, including instrument states, user data files, sweep list files, and other user created files. If it becomes necessary to sanitize the instrument, these settings may then be securely retained by removing the SD card and retaining it in the secure area.

- **Off**: All internal settings are stored in the instrument’s Main Memory (see “Instrument Memory & Volatility” on page 8). This memory may be sanitized using the Erase and Sanitize All (Option 006 Only) function.

**Key Sequence:** File > More > Security > Force Internal to SD Card Off On

**SCPI Command:** :SYST:FILESystem:STOR:FSDCard ON|OFF|1|0
Clear Persistent State Information

The persistent state settings contain instrument setup information that can be toggled within predefined limits such as display intensity, contrast and the GPIB address. In vector models, the user IQ Cal is also saved in this area.

The following functions can be used to clear the IQ Cal file and to set the operating states that are not affected by an instrument power-on, preset, or *RST command to their factory default:

Instrument Setup

Key Sequence: Utility > Power On/Preset > Restore System Settings to Default Values > Confirm Restore Sys Settings to Default Values

SCPI Command: :SYStem:PRESet:PERSistent

LAN Setup

The LAN setup (hostname, IP address, subnet mask, and default gateway) information is not modified by an instrument power-on or *RST command.

You can reset the instrument’s LAN setup by using the following key sequence or SCPI command.

Key Sequence: Utility > I/O Config > LAN Setup > Advanced Settings > Restore LAN Settings to Default Values > Confirm Restore LAN Settings to Default Values

SCPI Command: :SYStem:COMMunicate:LAN:DEFaults

User IQ Cal File (Vector Models Only)

When a user-defined IQ Calibration has been performed, the cal file data is removed by using the Erase All (Option 006 Only) feature, or by setting the cal file to default, as follows:

Key Sequence: I/Q > I/Q Calibration > Revert to Default Cal Settings

SCPI Command: :CAL:IQ:DEF
6 Using Secure Display (Option 006 Only)

Secure Display (Option 006 Only)

This function prevents unauthorized personnel from reading the instrument display or tampering with the current configuration via the front panel. When Secure Display is active, the display is blank, except for an advisory message, as shown in Figure 6-1 below. All front panel keys are disabled.

To set Secure Display, press: Utility > Display > More > Activate Secure Display > Confirm Secure Display

Once Secure Display has been activated, the power must be cycled to re-enable the display and front panel keys.

Figure 6-1 Signal Generator Screen with Secure Display Activated
7 Procedure for Declassifying a Faulty Instrument

If the instrument is not functional, and you are unable to use the security functions, you may physically remove the Processor board and Solid State Drive (SSD), if installed.

For removal and replacement procedures, refer to the Service Guide for your instrument.

Once the Processor and SSD assemblies have been removed, proceed as in Table 7-1 below:

Table 7-1 Assembly Disposal Procedures

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor (CPU) Board</td>
<td>Either</td>
</tr>
<tr>
<td></td>
<td>Discard the processor board and send the instrument to a repair facility. A new Processor Board will be installed, then the instrument will be repaired and calibrated. If the instrument is still under warranty, you will not be charged for the new Processor Board.</td>
</tr>
<tr>
<td></td>
<td>or</td>
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<td></td>
<td>If you have another working instrument, install the Processor Board into that instrument and erase the memory. Then reinstall the Processor Board back into the non-working instrument and send it to a repair facility for repair and calibration. If you discover that the Processor Board does not function in the working instrument, discard the Processor Board and note that it caused the instrument failure on the repair order. If the instrument is still under warranty, you will not be charged for the new Processor Board.</td>
</tr>
<tr>
<td>A4 Solid State Disk Drive (SSD) Assembly (Vector Instruments Only)</td>
<td>Either</td>
</tr>
<tr>
<td></td>
<td>Discard the SSD assembly and send the instrument to a repair facility. A new assembly will be installed, then the instrument will be repaired and calibrated. If the instrument is still under warranty, you will not be charged for the new assembly.</td>
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<td>or</td>
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<td></td>
<td>If you have another working instrument, install the SSD assembly into that instrument and erase its memory. Then reinstall the assembly back into the non-working instrument and send it to a repair facility for repair and calibration. If you discover that the assembly does not function in the working instrument, discard the assembly and note that it caused the instrument failure on the repair order. If the instrument is still under warranty, you will not be charged for the new assembly.</td>
</tr>
</tbody>
</table>
A: References

   The document may also be found by using the search feature on the Defense Security Service (DSS) website:
   [https://www.dss.mil/](https://www.dss.mil/)

2. **ISFO Process Manual for the Certification and Accreditation of Classified Systems under the NISPOM**
   Defense Security Service.
   The PDF of the document may be found at the following URL::
   The document may also be found by using the search feature on the Defense Security Service (DSS) website:
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3. **Greenliant NANDrive Security Erase Feature, Purge Command Specification**
   This Application Note may be obtained in PDF format from Greenliant Systems Ltd., by contacting the company via their web site:
   [http://www.greenliant.com/contact_us](http://www.greenliant.com/contact_us)

4. **AT Attachment 8 - ATA/ATAPI Command Set (ATA8-ACS)**
   INCITS Technical Committee T13/1699-D Revision 6a, September 6th, 2008
   This standard may be downloaded in Acrobat (PDF) format from the INCITS T13 web site:

5. **Installation Guide**
   Keysight Technologies Inc.
References

6. **Programming Guide**
   Keysight Technologies Inc.

7. **SCPI Programmers Reference**
   Keysight Technologies Inc.

8. **Service Guide**
   Keysight Technologies Inc.