Security Features and Volatility Documentation

Agilent Technologies, Inc.
Model Number(s)
U3051C, U3052C, U3053C, U3055A, U3056A, U3057C
Product Family
SATA/SAS Protocol Analyzer/Jammer

Agilent Technologies

<Page intentionally left blank>

Contacting Agilent Sales and Service Offices

Assistance with test and measurements needs and information on finding a local Agilent office is available on the internet at, *http://www.agilent.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 Agilent representative can determine whether your unit is still within its warranty period.

Product Declassification and Security

Model Number(s): U3051C, U3052C, U3053C, U3055A, U3056A, U3057C
Product Name: SerialTek Protocol Analyzers for 6G and 12G SAS/SATA
Product Family Name: SATA/SAS Protocol Analyzer/Jammer

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.agilent.com/find/ad and click on the security instrument tab.

Contents

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) 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 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 Agilent 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. Agilent declassification procedures are designed to meet the requirements specified by the DSS NISPOM security document (DoD 5220.22M chapter 8)

System Components

Product/System includes the following components

Model number	Name	Description	Reference/Remarks
U3051C	Protocol Analyzer	Protocol Analyzer, SAS/SATA	Product is hosted by a customer provided PC loaded with the U3051C product analyzer SW.
U3052C	Protocol Analyzer	Protocol Analyzer, SAS/SATA	Product is hosted by a customer provided PC loaded with the U3052C product analyzer SW.
U3053C	Protocol Jammer	Protocol Jammer, SAS/SATA	Product is hosted by a customer provided PC loaded with the U3053C product analyzer SW.
U3055A	Protocol Analyzer	Protocol Analyzer, SAS/SATA	Product is hosted by a customer provided PC loaded with the U3055A product analyzer SW.
U3056A	Protocol Analyzer	Protocol Analyzer, SAS/SATA	Product is hosted by a customer provided PC loaded with the U3056A product analyzer SW.
U3057C	Protocol Analyzer	Protocol Analyzer, SAS/SATA	Product is hosted by a customer provided PC loaded with the U3057C product analyzer SW.

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 (2.0 GB), model number dependent upgrade options to 72 GB – hardware SW Licence-able to higher memory depth

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
Main Volatile Memory varies with options from 2.0 GB to 72 GB DDR SDRAM[1]	No	Yes	No	Storage for measurement data; no customer information is stored here. Note that out of this 2.0 GB of DDR SDRAM memory, U305X family offers memory depth options up to 72 GB	Data captured through external probe	Main board	Cycle power on any U305X family member
Flash EEPROM	No	No	Yes	No customer information; it stores FPGA configuration memory only, including factory calibration/configuration data and SW Licensing data	Internal SerialTek[2] SW used during manufacturing	Main board ...	Not applicable – no customer data stored
Flash EEPROM	No	No	Yes	No customer information; it stores FPGA configuration memory only, to interact with the backplane controller	Internal connectivity communication use only	Main board	Not applicable – no customer data stored

1 – U3053C has no DDR SDRAM
2 – SerialTek manufactures the U305X family of SATA/SAS Protocol Analyzer/Jammer for resale by Agilent Technologies

User and Remote Interface Security Measures

Screen and Annotation Blanking
>   Not applicable to this product

USB Mass Storage Device Security
>   Not applicable to this product

Remote Access Interfaces
>   Not applicable to this product

Procedure for Declassifying a Faulty Instrument

>   Not applicable to this product