

Keysight X-Series Signal Analyzers

Option SF1
Security Features,
Exclude Launching Programs

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Installation Note

Part Number: N9020-90243

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Notice.

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Option SF1, Security Features, Exclude Launching Programs

Products Affected:	CXA N9000A EXA N9010A MXA N9020A PXA N9030A UXA N9040B
Serial Numbers:	All
To Be Performed By:	(X) Keysight Service Center (X) Personnel Qualified by Keysight (X) Customer
Estimated Installation Time:	1.0 Hours
Estimated Adjustment and Verification Time:	0 Hours

Introduction

This installation note explains how to install option SF1 on an X-Series analyzer. Option SF1 is a license key-enabled option that addresses the requirements of security-conscious users. Installing Option SF1 in the instrument causes changes to available functionality in certain menus, and suppression of certain SCPI commands, to prevent the launching of Windows programs from the instrument application. This reduces the instrument's vulnerability to the effects of unauthorized or undesirable third-party programs or scripts.

NOTE

1. The signal analyzer being upgraded with this option must have software version A.12.06 or newer.

To verify that the current version meets this requirement, press **System, Show, System** and look for the "Instrument S/W Revision".

The latest revision of the X-Series Signal Analyzers software may be downloaded from http://www.keysight.com/find/xseries_software.

If a software update is required, perform the software update BEFORE following the procedure in this document for redeeming and installing the option upgrade license key.

2. This option is licensed for one instrument model/serial number combination. The license key will only install on the designated instrument.

Option SF1, Security Features, Exclude Launching Programs

Contents

Quantity	Description	Part Number
1	Installation Note	This note
1	Option Upgrade Entitlement Certificate	5964-5178

Tools Required

- Personal computer with internet access and USB port
- USB storage device with >2GB free memory

Installation Procedure

1. Update the instrument software to A.12.06 or later. Upon reboot assure instrument is functioning correctly and passes all auto alignments.

License Installation Procedure over USB

1. Locate the Option Upgrade Entitlement Certificate (5964-5178) from the kit.
2. Redeem the Option Upgrade Entitlement Certificate by following the instructions on the Certificate.
3. After redeeming your Option Upgrade Entitlement Certificate you will receive an email with an attached License File.
4. Locate a USB storage device. Perform a virus scan on this device before use.
5. Save the License File to the root directory of the USB Storage Device.
6. Connect the USB Storage Device to the signal analyzer USB port. Windows will detect the new hardware and may display the configuration menu shown in **Figure 1**. This menu may be configured according to your preferences.

Figure 1 USB Storage Device Configuration Menu



7. The signal analyzer will automatically consume the License File. (This may take a few minutes) When the License File is consumed the Keysight License Manager will display a “Successful License Installation” message as shown in **Figure 2**.

Figure 2 Successful License Installation



Alternate Installation Procedure

The License File can be manually installed over USB or LAN by placing the license file in the following folder on the signal analyzer:

C:\Program Files\Agilent\licensing

Verify the Installation and Instrument Software Version

1. Cycle power on the signal analyzer and wait until the analyzer boots to the measurement application screen.
2. Press **System**, **Show**, **System** to display a list of installed options.
3. Verify that the installed option list contains N90x0A-SF1 or N9040B-SF1.
4. Verify that the "Instrument S/W Revision" meets the requirements outlined in the note on [page 3](#) of this document.
5. Press the front panel **System** key. Assure that in the System menu, the keys Control Panel..., Licensing..., and Internet Explorer... are not available. You will need to click the **More** softkey to verify these keys are not available.

Utilities, Adjustments, and Performance Verification Tests

Utilities Required

None

Adjustments Required

None

Performance Testing Required

None

For assistance, contact your nearest Keysight Technologies Sales and Service Office. To find your local

Keysight office access the following URL, or if in the United States, call the following telephone number:

<http://www.keysight.com/find/assist>

1-800-829-4444 (8 am - 8 pm ET, Monday - Friday)

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