

Installation  
Guide

Keysight  
IMS-SIP  
Network Emulator Software  
(E6966B)

## Notices

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### Statement of Compliance.

This product has been designed and tested in accordance with accepted industry standards, and has been supplied in a safe condition. The documentation contains information and warnings that must be followed by the user to ensure safe operation and to maintain the product in a safe condition.

### Manual Part Number

E6966-90002

### Edition

January 30<sup>th</sup>, 2015  
Documents Software Version 9.x

Printed in USA

Keysight Technologies, Inc.

### Technology Licenses

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### Safety Notices

The following general safety precautions must be observed during all phases of operation of this instrument. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the instrument. Keysight Technologies, Inc. assumes no liability for the customer's failure to comply with these requirements.

### CAUTION

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.

### WARNING

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.

## Warranty

This Keysight Technologies instrument product is warranted against defects in material and workmanship for a period of three years from the date of shipment. During the warranty period, Keysight Technologies will, at its option, either repair or replace products that prove to be defective. For warranty service or repair, this product must be returned to a service facility designated by Keysight Technologies. Buyer shall prepay shipping charges to Keysight Technologies. Keysight Technologies shall pay shipping charges to return the product to Buyer. However, Buyer shall pay all shipping charges, duties, and taxes for products returned to Keysight Technologies from another country.

### Where to Find the Latest Information

Keysight will periodically update product documentation. For the latest information about this wireless test set, including software upgrades, operating and application information, and product and accessory information, see the following URL:

[www.keysight.com/find/E6966B\\_software](http://www.keysight.com/find/E6966B_software)

### Is your product software up-to-date?

Keysight will periodically release software updates to fix known defects and incorporate product enhancements. To search for software updates for your product, go to the Keysight Software Manager website at:

[www.keysight.com/find/softwaremanager](http://www.keysight.com/find/softwaremanager)

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# 1 Introduction

Welcome to the *Keysight E6966B IMS-SIP Emulator Installation Guide*. The purpose of this guide is to provide you with installation and licensing instructions for the server emulator Keysight E6966B – 1FP (fixed) or E6966B-1TP (transportable), the client emulator Keysight E6966B – 2FP (fixed) or E6966B-2TP (transportable), and the conference-server emulator Keysight E6966B – 3FP (fixed) or E6966B-3TP (transportable).

The E6966B Network Simulator is an IMS-SIP server–client–conference-server system that enables you to test and demonstrate (using the E2E application test) the UE’s ability to perform the various IP based applications: VoIP, Video, and SMS.

**NOTE**

To support the End-to-End (E2E) application, two clients and one server are required.

The following list provides the primary features supported by the E6966B:

- IPv4 and IPv6
- Voice: E2E, Echo, and File Playback
- Video: E2E and File Playback
- Text Messaging: Plain, 3GPP, 3GPP2 encoded SMS
- AKAv1, AKAv2, and MD5 authentication algorithms
- IPsec
- Control-plane and user-plane filtering
- Call-conferencing (audio-only)
- Procedures defined in 3GPP 24.229 R8
- Windows 7 (Windows XP is not supported)

In this book, you’ll find:

- **Overview of System Component Requirements**
- **Installation**
- **Licensing**
- **Uninstalling the E6966B**
- **Contact Us**

## 2 Overview of System Component Requirements

This section provides an overview of the components required to use the E6966B.

### Server and Client PC Requirements

An IBM® (or compatible) PC with at least:

- Processor: 2.0 GHz Pentium 4 or equivalent
- Operating System: Microsoft Windows 7 Professional
- Memory: 2 GB RAM
- Hard Disk Space: 2 GB of available hard disk space
- Connection: IP Network Connection (broadband, LAN, and wireless)
- LAN Port (If you are using LAN for your connection.)
- Sound Card: Full-duplex, 16-bit
- USB ports: (2.0 or later)

<b>NOTE</b>	Both the E6966B Server and Client software can be installed on the same PC, however in this situation, use only the E6966B-1FP (server license) to activate BOTH products. See “Licensing Use Cases” in the E6966B Help file for more information.
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### Other Requirements

- Microsoft Internet Explorer version 6.0 or later
- E6966B-1FP (fixed) or E6966B-1TP (transportable) IMS-SIP Server Emulator, perpetual license (To obtain your license, follow the instructions on the Software Entitlement Certificate you received upon ordering the software.) See “Licensing” in the E6966B Help file for more information.
- E6966B-2FP (fixed) or E6966B-2TP (transportable) IMS-SIP Client Emulator, perpetual license (To obtain your license, follow the instructions on the Software Entitlement Certificate you received upon ordering the software.) See “Licensing” in the E6966B Help file for more information.
- E6966B-3FP (fixed) or E6966B-3TP (transportable) IMS-SIP Conference-Server Emulator, perpetual license (To obtain your license, follow the instructions on the Software Entitlement Certificate you received upon ordering the software.) See “Licensing” in the E6966B Help file for more information.
- E6966B-1FP IMS-SIP Server Emulator Software (You will need access to the web at: [www.keysight.com/find/E6966B\\_software](http://www.keysight.com/find/E6966B_software)).
- E6966B-2FP IMS-SIP Client Emulator Software (You will need access to the web at: [www.keysight.com/find/E6966B\\_software](http://www.keysight.com/find/E6966B_software)).
- E6966B-3FP IMS-SIP Conference-Server Emulator Software (You will need access to the web at: [www.keysight.com/find/E6966B\\_software](http://www.keysight.com/find/E6966B_software)).

Refer to the E6966B release notes located here: [www.keysight.com/find/E6966B\\_software](http://www.keysight.com/find/E6966B_software) for further clarification.



## 3 Installation

This section contains what you need to know before you install this product as well as installation instructions.

1. Close any applications currently running.
2. Open the Installer self extracting zip file. (The default extract location is C:\Temp.)
3. Navigate to the folder where the zip content was extracted in step 2.
  - a. This folder contains a version-specific directory for the application:  
(For example: C:\Temp\E6966B IMS-SIP Server V08.00.00 Installer)
  - b. Navigate into the version-specific directory and run the executable:  
(For example: E6966B-1FP\_Setup.exe)
4. Your system may be prompted to reboot.

<b>NOTE</b>	You <i>may</i> need to manually restart the installer executable upon reboot.
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## 4 Licensing

### Licensing the Server Software

1. The Keysight E6966B IMS-SIP Server emulator requires an E6966B-1FP or E6966B-1TP license.
2. The installer for this application installs the Keysight License Manager (KLM).
3. After the installation is complete, you are required to obtain the KLM HostID associated with your server PC by performing one of the following:
  - a. Open the Keysight License Manager application and note the value of the “Host ID” field.
  - b. Run the IMS-SIP Server application (in administrator mode). The application shows a message box indicating that the product is not licensed and displays the required Host ID information.

(The Host ID associated with your Server PC is required to redeem the E6966B-1FP license entitlement supplied with your purchase.)

4. Consult the instructions on the entitlement certificate for guidance on license redemption.

<b>NOTE</b>	The E6966B-1FP license entitles you to install both the E6966B IMS Server AND Client applications on the SAME Host PC for which you redeemed your E6966B-1FP license.
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### Licensing the Client Software

1. The Keysight E6966B IMS-SIP Client Emulator requires an E6966B-2FP or E6966B-2TP license when installing on a PC other than the one which you installed the server software.
2. The installer for this application installs the Keysight License Manager (KLM).
3. After the installation is complete, you are required to obtain the KLM Host ID associated with your client PC by performing one of the following:
  - a. Open the Keysight License Manager application and note the value of the “Host ID” field.
  - b. Run the IMS-SIP Client application (in administrator mode). The application shows a message box indicating that the product is not licensed and displays the required Host ID information.

(The Host ID associated with your Client PC is required to redeem the E6966B-2FP license entitlement supplied with your purchase.)

4. Consult the instructions on the entitlement certificate for guidance on license redemption.

<b>NOTE</b>	The E6966B-1FP license entitles you to install both the E6966B IMS Server AND Client applications on the Host PC for which you redeemed your E6966B-1FP license. However, to install the E6966B IMS Client application on a different Host PC, you must obtain an E6966B-2FP license.
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## Licensing the Conference-Server Software

1. The Keysight E6966B IMS-SIP Server emulator requires an E6966B-3FP or E6966B-3TP license.
2. The installer for this application installs the Keysight License Manager (KLM).
3. After the installation is complete, you are required to obtain the KLM HostID associated with your server PC by performing one of the following:
  - a. Open the Keysight License Manager application and note the value of the “Host ID” field.
  - b. Run the IMS-SIP Server application (in administrator mode). The application shows a message box indicating that the product is not licensed and displays the required Host ID information.

(The Host ID associated with your Server PC is required to redeem the E6966B-3FP license entitlement supplied with your purchase.)

4. Consult the instructions on the entitlement certificate for guidance on license redemption.

## 5 Uninstalling the E6966B

### When Using MS Windows 7.0

1. Select the Start icon > **Control Panel** > **Programs** > **Programs and Features** > **Uninstall a Program**.
2. From the **Uninstall or Change a Program** window, select "Keysight E6966B IMS-SIP Server Emulator", "Keysight E6966B IMS-SIP Client Emulator", or "Keysight E6966B IMS-SIP Conference-Server Emulator" as appropriate.
3. Select "Uninstall" and follow the instructions.

## 6 Contact Us

### Calling Keysight Technologies

Keysight Technologies has offices around the world to provide you with complete support for your wireless test set. To obtain servicing information or to order replacement parts, contact the nearest Keysight Technologies office listed below. In any correspondence or telephone conversations, refer to your part number, full serial number, and (if applicable) the software revision.

### Locations for Keysight Technologies

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

If you do not have access to the Internet, one of these centers can direct you to your nearest representative:

Should the Declaration of Conformity be required, please contact a Keysight Sales Representative, or the closest Keysight Sales Office. Alternately, contact Keysight at: [www.keysight.com](http://www.keysight.com).

## Service and Support

### Americas

Brazil  
55 11 3351 7010  
United States  
(800) 829 4444

Canada  
(877) 894 4414

Mexico  
001 800 254 2440

### Asia Pacific

Australia  
1 800 629 485  
China  
800 810 0189  
Hong Kong  
800 938 693  
Other Asian Countries:  
(65) 6375 8100

India  
1 800 112 929  
Japan  
0120 (421) 345  
Korea  
080 769 0800

Malaysia  
1 800 888 848  
Singapore  
1 800 375 8100  
Taiwan  
0800 047 866

[www.keysight.com/find/contactus](http://www.keysight.com/find/contactus)

### Europe & Middle East

Austria  
0800 00 11 22  
Belgium  
0800 58 580  
Finland  
0800 523 252  
France  
0805 980 333  
\*0.125 €/minute  
Germany  
0800 6270 999  
Other Unlisted Countries:

Ireland  
1800 832 700  
Israel  
1 809 343 051  
Italy  
800 599 100  
Luxembourg  
+32 800 58580  
Netherlands  
0800 0233 200

Russia  
8800 5009 286  
Spain  
0800 00 01 54  
Sweden  
0200 88 22 55  
Switzerland  
0800 80 53 53  
United Kingdom  
0800 0260 637

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Published in USA, January 30<sup>th</sup>, 2015  
E6966-90002