

# eLux NG for PC – Installing

## HOW-TO GUIDE

This document describes how to install eLux<sup>®</sup> NG for PC on a computer. Please print these instructions and have them available when installing. It describes the following methods:

- Network-driven installation via PXE
- Network-driven installation via floppy
- CD-driven installation from CD
- CD-driven installation from floppy

If the evaluation CD runs on your PC, eLux NG for PC can be installed.

If your PC cannot boot from the CD, you can still run the eval CD by booting from a special boot floppy. See “6 CD-driven installation from floppy.”

### 1. Terms and Definitions

Please familiarize yourself with the following terms.

- **eLux<sup>®</sup> NG for PC Live Evaluation CD** (Eval CD) Runs eLux NG for PC from CD upon boot. No files are installed on your hard drive. The CD also includes the installation program and Scout NG.
- **CD boot floppy** Enables a CD-driven installation when the PC does not support boot from CD. It is created using the Eval CD, but can be used both for evaluation and installation.
- **Network boot floppy** Enables a network-driven installation when the PC does not support PXE. It is created using the floppy image writer program from Scout NG.
- **Scout NG** The management tool in the eLux NG product suite. It is included on the Eval CD. During installation, select “Typical” to install the Scout NG Server, Scout NG Console, PC container and required recovery files. (Advanced users: If you choose “Custom,” be sure to select the “Recovery” component.) For simplicity, in this document “Scout NG” refers to the recovery files, servers and programs that are automatically installed during the standard Scout NG installation.

### 2. Requirements

To obtain the eLux<sup>®</sup> NG for PC Live Evaluation CD ask your distributor for a copy or download the ISO image from [www.mylux.com](http://www.mylux.com) and burn to CD.

System requirements:

- Personal computer with a Pentium MMX processor or higher.
- IDE or SCSI hard disk.
- PCI LAN and PCI video. ISA LAN and ISA video are not supported.
- 64 MB of RAM minimum.
- 128 MB of hard-disk space minimum.
- The CD-ROM drive running the evaluation CD must be IDE or SCSI.

Technical info:

- There is no technical support for hardware drivers! All hardware drivers have to be verified by the evaluation CD – network, graphic, sound.
- For hard disks larger than 5 GB, the system partitioning is 5 GB.
- During the installation DO NOT TURN THE PC OFF!

Partitioning:

When installing **eLux NG for PC** on your hard disk, the file system is installed as follows. You need a minimum 128 MB of hard disk space:

- Hard disk: 128 MB - 6 GB
  - /boot 2 MB (kernel area)
  - /setup 1.8% of the entire hard disk drive (read/write)
  - The rest is used for the root file system (read-only).
- Hard disk: > 6 GB
  - /boot 2 MB
  - /setup 95 MB (fixed)
  - 5 GB for the root file system (fixed)

### 3. Network-driven installation via PXE

In a network-driven installation via PXE, the computer boots from a server over the network using Pre-Execution Boot Environment (PXE). It retrieves files from a TFTP server and an image definition file (IDF) from the FTP or HTTP server, and installs the firmware on the hard disk. To use this procedure, the computer's BIOS and NIC must both support PXE. If your PC does not support PXE but has a floppy drive, you can still recover over network. See "4 Network-driven installation via floppy."

Required software:

- DHCP server
- Scout NG Server
- TFTP server from UniCon Software GmbH
- FTP or HTTP server

PC requirements:

- BIOS support of PXE
- NIC support of PXE

For more information, see the "Recovery" chapter in the *eLux NG Administrator's Guide* or *Scout NG Administrator's Guide*.

Procedure:

1. Configure the DHCP server
2. Install the Scout NG Server
3. Start the recovery

#### ⇒ **Configure the DHCP server**

Set the following options:

- |                                   |   |
|-----------------------------------|---|
| <b>003 Router:</b>                | Enter one or more router IP addresses   |
| <b>066 Boot Server Host Name:</b> | Enter the IP address of the TFTP server |
| <b>067 Bootfile Name:</b>         | Enter <code>pxelinux.0</code>           |

#### ⇒ **Installing the Scout NG Server**

Scout NG V. 5.5.8 or later and the PC container are required.

The Scout NG setup program is available on the "eLux NG Software & Tools" CD (installs Scout NG and PC container) or can be downloaded from the Web site [www.myelux.com](http://www.myelux.com) (installs Scout NG only, PC container must be downloaded separately). For information on how to install Scout NG, see the *Scout NG Administrator's Guide*.

### ⇒ **How to start a recovery**

The installation is performed using a so-called “recovery installation.” A recovery is initiated client-side. The method used to initiate a recovery depends on your hardware platform.

Some – but not all – hardware platforms require you to first set remote boot to PXE in the Thin Client’s BIOS (1) and then call PXE from the boot menu (2).

Other hardware platforms offer a simpler possibility: you initiate a recovery simply by pressing a function key upon boot.

See the documentation included with your device to see what situation applies to you.

#### I. To configure the protocol on the device:

1. Upon boot, press the function key that opens BIOS for your hardware platform. See the documentation that was included with the device if you are unsure.
2. Set “LAN remote boot” to PXE.
3. Save your settings and exit BIOS.

#### II. To select the protocol from the Thin Client boot menu:

1. Upon boot, press the function key that opens the boot menu for your hardware platform. See the documentation that was included with the device if you are unsure.
2. Select PXE and press ENTER.
  - NOTE: If BIOS does not support PXE, you can still boot from floppy. See “4 Network-driven installation via floppy.”
3. A message appears, allowing you to cancel the procedure. If you decide to proceed, select the desired container (UC\_PC) and press ENTER.
  - NOTE: The keyboard layout is English.

The hard disk will be formatted and the software will be installed. The required time depends on the hardware platform. **Please do not press a key during this time.**

## 4. Network-driven installation via floppy

If your PC does not support PXE, you have the option of booting from floppy.

You need the following:

- Scout NG recovery files
- Boot floppy. A disk with a special boot image.

Procedure:

1. Configure the DHCP server, install the Scout NG server and configure the HTTP server as described in “3 Network-driven installation via PXE.”
2. Create the network boot floppy.
3. Start the recovery.

### ⇒ Creating the network boot floppy

You need the following:

- 1.44 MB floppy disk
- Personal computer running Windows NT or higher
- Scout NG recovery files (Scout NG Server, Scout NG Console, TFTP server, recovery files, container) installed on this computer. See “How to install the Scout NG server,” page 2.
- Local floppy drive on this computer. **NOTE:** Do not use USB

To create the boot floppy, do the following:

1. Install Scout NG, if you have not already done so.
2. In Windows Explorer, go to c:\Program Files\UniCon\scouting\tftpd\ and double-click “eluxrecoveryfdxx.exe.”<sup>1</sup>
3. The image writer starts.
4. Insert the floppy in the floppy drive.
5. Click **Write**.
6. In the **Attention** dialog, click **Yes**. An image will be written to the floppy. All information previously on the floppy will be lost.
7. A message will appear when the procedure has successfully completed. Remove the floppy.
8. Label the floppy “eLux NG for PC – Network boot floppy”. Be sure to include the version number for future reference.<sup>2</sup>

### ⇒ Starting the recovery

The installation is performed using a so-called “recovery installation”. To start the recovery:

1. Turn the PC off.
2. Insert the boot floppy.
3. Start the PC.
4. A few seconds after the PC begins to read from the floppy (the floppy drive light will go on and you will hear a noise).
5. Wait.
6. A message appears, allowing you to cancel the procedure. If you decide to proceed, type **Y** and press ENTER. **NOTE:** The keyboard layout is English.

The hard disk will be formatted and the software will be installed. The required time depends on the hardware platform. **Please do not click during this time.**

<sup>1</sup> “xx” is the version number and subject to change.

<sup>2</sup> When booting from floppy, you must use the boot floppy created with this floppy image writer. (The version number of the boot floppy and recovery files must be identical.)


## 5. CD-driven installation from CD

This section describes how to install eLux NG for PC if your PC can boot from CD.

You need the following:

- eLux<sup>®</sup> NG for PC Live Evaluation CD
- The CD-ROM drive must be IDE or SCSI.
- Additional requirements as listed in “2 Requirements.”

To install eLux NG for PC using CD:

1. Turn the PC off.
2. Insert the CD in the CD-ROM drive of your PC.
3. Start the PC.
  - **Eval CD** Switch to the eLux NG starter by clicking the  symbol in the taskbar. In the **Applications** tab select "Install eLux NG for PC" and click "Connect."
4. The installation dialog appears. The following components will be installed:
  - Full** All available packages.
  - Minimum** Base OS, RDP client, ICA client.
5. Select the hard disk to install on from the drop-down menu and click **OK** to start the installation.
6. When installation is complete, the device reboots.
7. Remove the CD.

The hard disk will be formatted and the software will be installed. The required time depends on the hardware platform. **Please do not use the keyboard during this time.**

### Tips

- Depending on the age of your hardware, the time between steps varies. As a general rule of thumb, the older your hardware, the longer the installation procedure takes.
- Be patient. One click is enough. Do not click more than once!
- To speed up the installation process on slower hardware platforms:
  - Install "Minimum." After installing the base OS from CD, you can install remaining firmware over the network, which is much faster. To install firmware over the network, you create an image using the image editor ELIAS NG. This procedure is described in the *Scout NG Administrator's Guide*.
  - Attach an external CD-ROM drive with a higher read speed.

### Troubleshooting

- If the installation fails, press CTRL + F4 to switch to the error console. This lets you see error messages. To return to the eLux NG desktop, press CTRL + F1.
- If the PC does not satisfy minimum memory requirements and you still want to install eLux NG for PC, we recommend **Minimum**. When main memory < 64 MB, the procedure may stop in the middle of installation. In this case, reboot the PC with the CD in it. In most cases, the installation procedure will resume where it left off.
- In most cases, the PC will boot from the CD with no problem. However, if the boot phase is interrupted, press CTRL + F4 to switch to the error console. If the following error message is displayed:  
Searching CDROM ...  
ERROR: no boot device found STOP!!!  
you cannot boot from CD.  
In this case, you have the option of booting from floppy. See “6 CD-driven installation from floppy.”

## 6. CD-driven installation from floppy

This section describes how to install eLux NG from CD if your PC cannot boot from CD but has a CD drive and a floppy drive.

You need the following:

- eLux<sup>®</sup> NG for PC Live Evaluation CD
- 1.44 MB floppy disk
- Personal computer running Windows NT or higher
- Local CD-ROM drive (IDE or SCSI). **NOTE:** Do not use USB
- Local floppy drive. **NOTE:** Do not use USB

Procedure:

1. Create the CD boot floppy.
2. Run the CD.

### ⇒ **Creating the CD boot floppy**

1. Turn the PC on.
2. Insert the eLux NG Live CD in the CD-ROM drive.
3. In Windows Explorer, go to the CD-ROM drive and double-click "eluxf~~xx~~.exe."<sup>3</sup>
4. The image writer starts.
5. Insert the floppy in the floppy drive.
6. Click **Write**.
7. In the **Attention** dialog, click **Yes**. An image will be written to the floppy. All information previously on the floppy will be lost.
8. A message will appear when the procedure has successfully completed. Remove the floppy.
9. Label the floppy "eLux NG for PC - CD boot floppy ". Be sure to include the version number for future reference.<sup>4</sup>

### ⇒ **Run the CD**

1. Turn the PC off and insert the boot floppy.
2. Start the PC.
3. A few seconds after the PC begins to read from the floppy (the floppy drive light will go on and you will hear a noise), insert the CD. Do not remove the floppy.
4. Wait.
  - **Eval CD** The eLux NG desktop starts. Remove the floppy.
  - **Install CD** The installation program starts. Remove the floppy.
5. To install eLux NG on the device, proceed as in "5 CD-driven installation from CD." Alternatively, you can continue to test the software by allowing it to run from the Eval CD.

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<sup>3</sup> "xx" is the version number and subject to change.

<sup>4</sup> Note: When booting from floppy, you must use the boot floppy created with this Eval CD. (The version number of the boot floppy and Eval CD or Install CD must be identical.)

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