

# eLux & Scout

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## Migration and Server Transfer Paper

August 2006

Build # 11

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**Note:** The product name Scout NG Enterprise changed to Scout Enterprise. But Scout NG still exists and the license type is still called Scout NG.

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## 1 Migration from Scout eL to Scout Enterprise

This chapter describes the installation of Scout NG Enterprise with the Recovery components. Please install the recovery components to the system which contains Scout eL. If you want to transfer Scout to another hardware at the same time please consult chapter **2. Migration from Scout eL to Scout Enterprise with Server Transfer**.

### 1.1 Requirements

- **Scout eL Server** must be installed. You need administrator rights to this system.
- **Scout Enterprise setup program** The Scout NG Enterprise setup is included on the eLux NG CD-ROM, which either comes with your delivery or can be downloaded from our website <http://www.myelux.com/> ("ELIAS, Scout, EBK > Scout NG Enterprise / ELIAS NG").
- **System requirements** Scout Enterprise needs a system with Windows 2000 Workstation (or higher), Windows XP Professional or Windows 2003 Server, **Service Pack 1**.
- **FTP or HTTP Server**. You must have access to the root directory and at least 380 MB harddisk space, since the eLux NG container (the eLux NG software packages are stored in it) will be installed here.

### 1.2 Creating a Backup

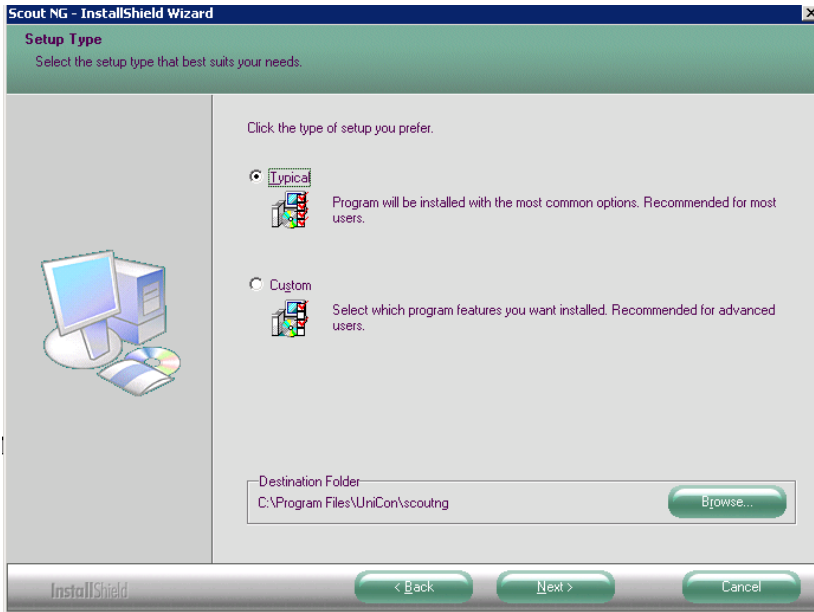
Please do not uninstall the Scout eL Server nor the Scout eL licenses, unless you have saved your currently valid configuration.

For the backup please copy the installation directory of your current Scout eL installation (e.g.: C:\Programs\Unicon\ScouteL).

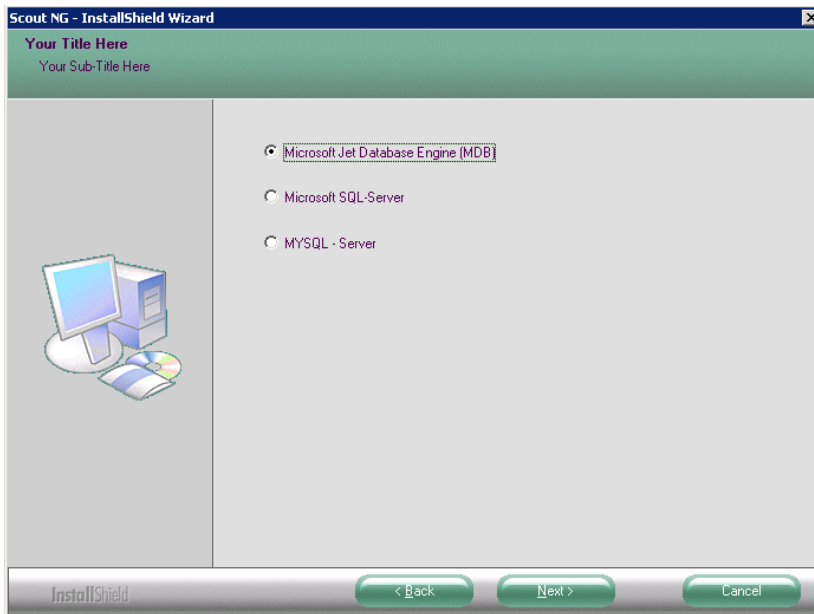
### 1.3 Installing Scout NG Enterprise

Logon as administrator and insert the eLux NG CD into the CD-ROM drive of your Windows system. If the Autorun function of the CD-ROM drive should be inactivated, start the CD in **Windows > setup.exe**. Alternatively, the Scout NG Software is available for download on [www.myelux.com](http://www.myelux.com). When the software has been downloaded, start with Setup.exe in the Scout NG directory.

1. The InstallShieldWizard offers you the options **Typical** or **Custom** for the installation. Please choose **Custom** and modify the destination folder to the currently valid Scout eL installation directory.



2. Next step is to define the database system in use. If you should not use any database system yet, select Microsoft Jet Database Engine (MDB). Otherwise select the database you want to use and enter the server name / IP address and your user name to access the database.



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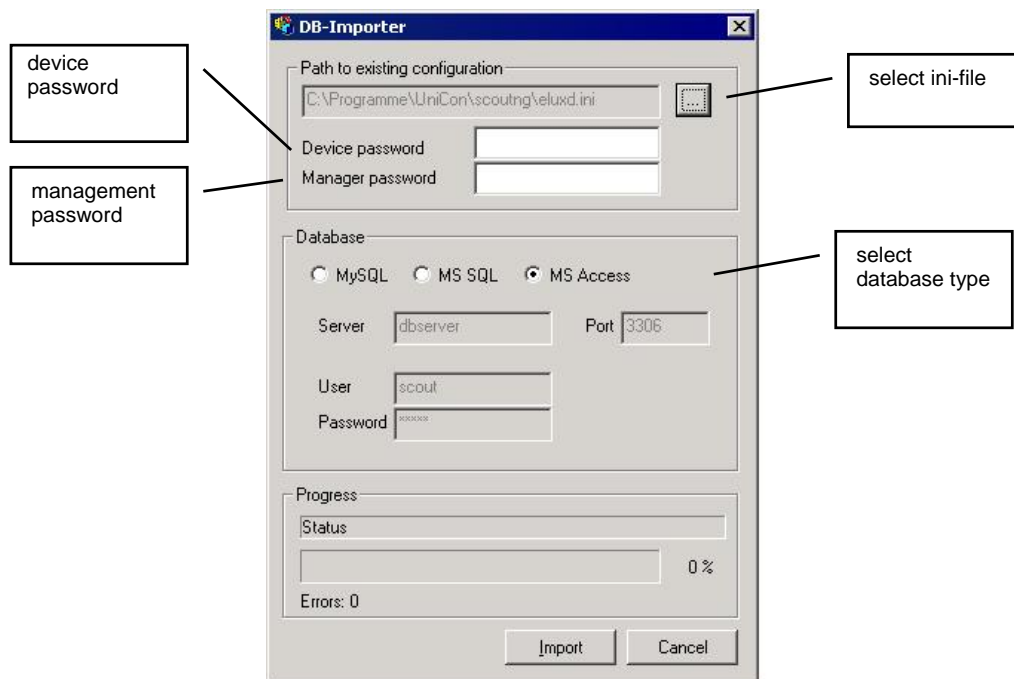
**NOTE** Configuration and licenses will **not** be transferred automatically after the installation of the Scout NG Enterprise Server. However, an import tool is provided. Please follow the instructions for the import of the configuration described in the next chapter: **Import of a Configuration from Scout eL to Scout NG Enterprise.**

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## 1.4 Import Configuration from Scout eL to Scout Enterprise

From **Start > Programs > Scout NG** start the **Import** tool.

- Press the '...' button and select the ini-file in the directory of the existing Scout NG configuration. If you have installed Scout NG Enterprise in the same directory as the existing Scout NG the directory should be preset correctly.
- Device password: enter device password (Options - Base configuration – Setup – Security) to verify that the existing configuration will be imported.
- Manager password: Scout NG manager password (default: `elux`)
- Select the Database type and fill in the necessary fields.
- Click **Import**.
- Depending on the size of the existing Scout NG configuration and the selected database model the import may take quite a while.
- The current status and detected errors, if any, are displayed in the progress area of the Import Tool.



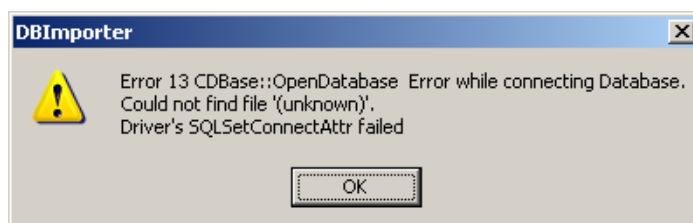
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**NOTE:** If you import the configuration to the same server on which the old Scout eL version has been running, all the licenses will be imported, too, and will be visible in Scout NG Enterprise.

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## 1.5 Possible Error Message

This message may appear, if "Path to existing configuration" is entered in UNC notation.



In this case set the permission for the share on the remote system to **'change'**.

## 1.6 Entering New Licenses

Chapter **10.1 Licenses** provides an overview of the license types.

Please proceed as follows after the installation of the Scout Enterprise Server:

1. Logon to Scout Enterprise
2. Enter the Scout NG or Update Scout eL → Scout NG management licenses. They can be used immediately. Please activate them within the activation period (30 days) on <http://www.myelux.com/>. After that period the licenses will be invalid, if not activated. However, they can still be activated after this period.

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**NOTE:** If you have been provided with **Update Scout eL → Scout NG** licenses, the old Scout eL licenses must be entered in Scout Enterprise, too. They can be reactivated.

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3. Enter the eLux NG or eLux NG+Scout(built-in) or Update eLux 1.x → eLux NG licenses, if these have been delivered separately, i.e. not integrated in the client. Non-integrated license base keys must be entered in Scout Enterprise and activated in the Product Activation Center on <http://www.myelux.com/>.

You find detailed information on the activation of licenses in our *Scout Enterprise Administrator's Manual*.

## 1.7 Uninstall Scout eL

When you succeeded to update Scout eL to Scout Enterprise, you may uninstall your Scout eL installation via **Start > Settings > Control Panel > Software** from the system.

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## 2 Migration from Scout eL to Scout Enterprise with Server Transfer

This chapter describes the migration of Scout eL to Scout Enterprise with changing the server hardware at the same time. We provide the complete information on the **installation** of Scout Enterprise with the recovery components, on the **import** of the server configuration of your Scout eL installation as well as on the **reactivation** of your Scout eL licences and the licensing in Scout Enterprise.

### 2.1 Requirements

- **Scout eL Server** must be installed. You need administrator rights on both the Scout eL Server system (**source**) and the Scout Enterprise system (**target**).
- **Scout Enterprise setup program** The Scout Enterprise setup is included on the eLux NG CD-ROM, which either comes with your delivery or can be downloaded from our website <http://www.myelux.com/> (ELIAS, Scout, EBK > Scout Enterprise / ELIAS NG).
- **System requirements** Scout Enterprise needs a system with Windows 2000 Workstation (or higher), Windows XP Professional or Windows 2003 Server, **Service Pack 1**.
- **FTP or HTTP Server** You must have access to the root directory and at least 380 MB harddisk space, since the eLux NG container (the eLux NG software packages are stored in it) will be installed here.

### 2.2 Creating a Backup

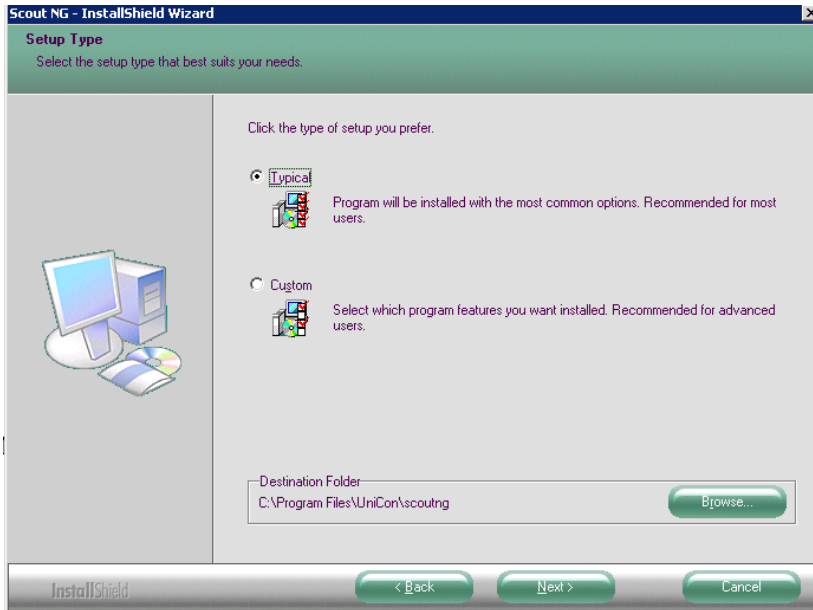
Please do not uninstall the Scout eL Server nor the Scout eL licenses, unless you have saved your currently valid configuration.

For the **backup** please copy the installation directory **of your current Scout eL installation** and make it accessible for the new server platform.

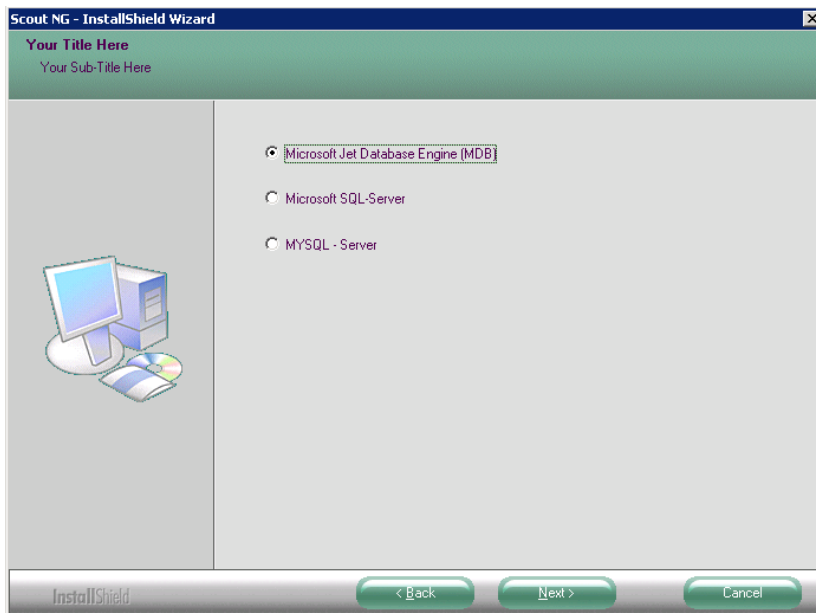
### 2.3 Installing Scout Enterprise

Logon as administrator and insert the eLux NG CD into the CD-ROM drive of your Windows system. If the Autorun function of the CD-ROM drive should be inactivated, start the CD in **Windows** > setup.exe. Alternatively, we provide the Scout Enterprise Software on [www.myelux.com](http://www.myelux.com) for download. When the software has been downloaded, start with Setup.exe in the Scout Enterprise directory.

1. The InstallShieldWizard offers you the options **Typical** or **Custom** for the installation. In case of **Typical** the most frequently used services are installed automatically. When you select **Custom** you can define which Scout Enterprise components are to be installed (Scout Enterprise Server, Scout Enterprise Console, Recovery components, BootP Server).



2. Next step is to define the database system in use. If you should not use any database system yet, select Microsoft Jet Database Engine (MDB). Otherwise select the database you want to use and enter the server name / IP address and your user name to access the database.



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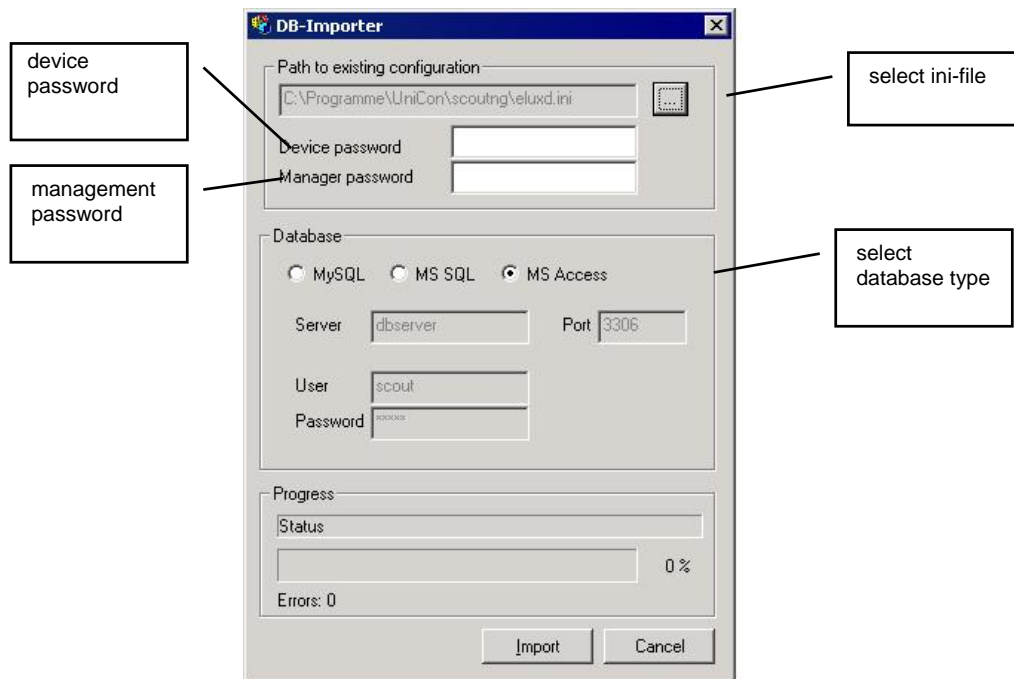
**NOTE** Configuration and licenses will **not** be transferred automatically after the installation of the Scout Enterprise Server. However, an import tool is provided. Please follow the instructions for the import of the configuration described in the next chapter: **Import of a Configuration from Scout eL to Scout Enterprise.**

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## 2.4 Import Configuration from Scout eL to Scout Enterprise

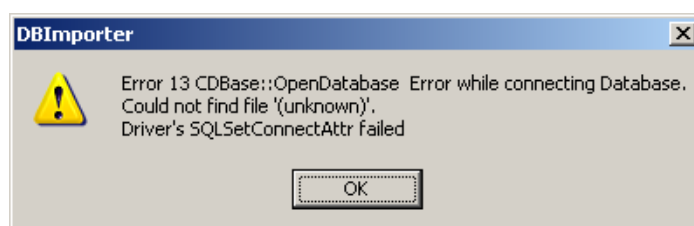
From **Start > Programs > Scout Enterprise** start the **Import Tool**.

- Press the '...' button and select the ini-file in the directory of the existing Scout eL configuration. If you have installed Scout Enterprise in the same directory as the existing Scout eL the directory should be preset correctly.
- Device password: Enter the device password (Options - Base configuration – Setup – Security) to make sure that the existing configuration will be imported.
- Manager password: The Scout manager password (default: eLux)
- Select the Database type (MS Access in case of using the Microsoft Jet Database Engine) and fill in the necessary fields.
- Click **Import**.
- Depending on the size of the existing Scout eL configuration and the selected database model the import may take quite a bit.
- The current status and detected errors, if any, are displayed in the progress area of the Import Tool.



## 2.5 Possible Error Message

This message may appear, if "Path to existing configuration" is entered in UNC notation.

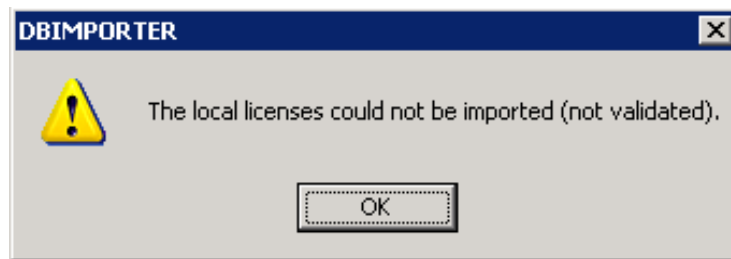


In this case set the permission for the share on the remote system to **'change'**.

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**Important:** Scout licenses are not automatically transferred to the new server, but must be reactivated to the host-id of the new server in the Product Activation Center of <http://www.myelux.com> (see chapter 2.6 **Reactivating Scout eL Licenses**). This is why the following message will pop up three times during the import of the Scout eL configuration (for local, served and client licenses).

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In this case management licenses must be reactivated and re-entered into Scout Enterprise.

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**Note:** 3<sup>rd</sup> Party licenses are stored on the clients. This is why they cannot and need not be reactivated nor re-entered at the new server. If not all of the product licenses should have been used before server transfer, please inform UniCon Software GmbH ([sales@unicon-ka.de](mailto:sales@unicon-ka.de)) requesting a new license certificate for the licenses not used so far. Please save the .db files of the old Scout installation, because these show the quantity of licenses already in use.

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## 2.6 Reactivating Scout eL Licenses

Scout eL licenses are to be reactivated on <http://www.myelux.com>. After the Login please open the Product Activation Center, select the relevant Scout eL license and start the reactivation procedure by clicking the button „Reactivate“. Providing the host id of your new server you will get an activation code which is to be entered in your Scout Enterprise server.

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**Note:** Product licenses like eLux 1.x licenses as well as 3<sup>rd</sup> party licenses need not and cannot be reactivated, because they are stored on the clients.

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## 2.7 Entering New Licenses

Chapter **10 Licenses** provides an overview of the license types.

Please proceed as follows after the installation of the Scout NG Enterprise Server:

1. Logon to Scout NG Enterprise
2. Enter the Scout NG or Update Scout eL → Scout NG management licenses. They can be used immediately. Please activate them within the activation period (30 days) on <http://www.myelux.com/>. After that period the licenses will be invalid, if not activated. However, they can still be activated after this period.

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**NOTE:** If you have been provided with **Update Scout eL → Scout NG** licenses, the old Scout eL licenses must be entered in Scout Enterprise, too. They can be reactivated.

---

3. Enter licenses of type eLux NG or eLux NG+Scout(built-in) or Update eLux 1.x → eLux NG or Update eLux 1.x → eLuxNG+Scout(built-in), if these have been delivered separately, i.e. not integrated in the client. Non-integrated license base keys must be entered in Scout Enterprise and activated in the Product Activation Center on <http://www.myelux.com/>.

Detailed information on license reactivation is provided in our *Scout Enterprise administrator's guide*.

## 2.8 Uninstall Scout eL

When you succeeded to update Scout eL to Scout NG Enterprise, you may uninstall your Scout eL installation via **Start > Settings > Control Panel > Software** from the system.

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## 3 Migration from Scout NG to Scout Enterprise

This chapter describes the migration from Scout NG to Scout Enterprise on the same hardware. If you wish to change the hardware at the same time please consult chapter 4 Migration from Scout NG to Scout Enterprise with Server Transfer.

### 3.1 Requirements

- **Scout NG Server** must be installed. You need administrator rights to this system.
- **Scout Enterprise setup program** The Scout Enterprise setup is included on the eLux NG CD-ROM, which either comes with your delivery or can be downloaded from our website <http://www.myelux.com/> (“ELIAS, Scout, EBK > Scout Enterprise / ELIAS NG”).
- **System requirements** Scout NG Enterprise needs a system with
  - Windows 2000 Workstation (or higher), Windows XP Professional or Windows 2003 Server, **Service Pack 1**.
  - 30 MB Harddisk space
  - Database system, e.g. the Microsoft Database Jet Engine (MDB) included in Windows or optional: Microsoft SQL Server<sup>®</sup> oder MySQL<sup>®</sup> Server.

### 3.2 Creating a Backup

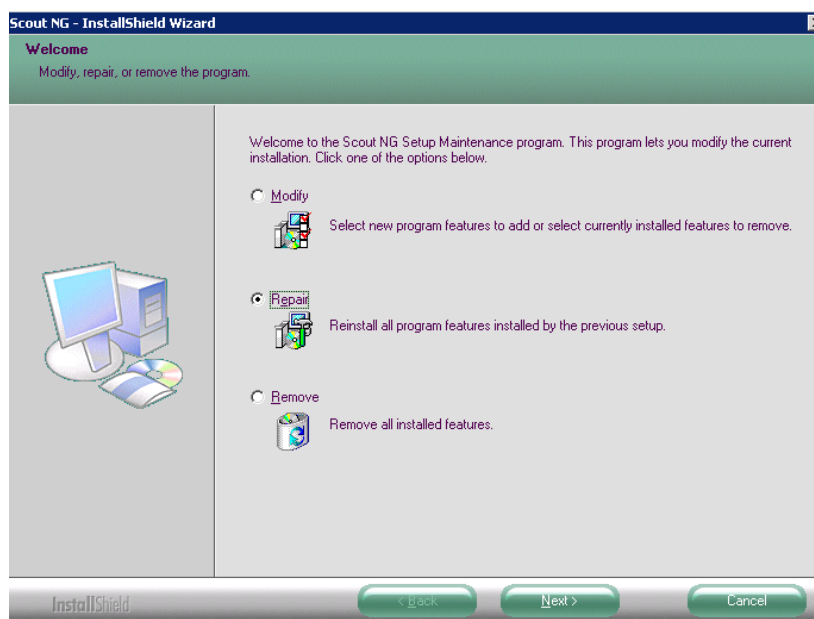
Please **do not uninstall** the Scout NG Server nor the Scout NG licenses, unless you have saved your currently valid configuration.

For the backup please copy the installation directory of your current Scout NG installation and make it accessible for the new server platform.

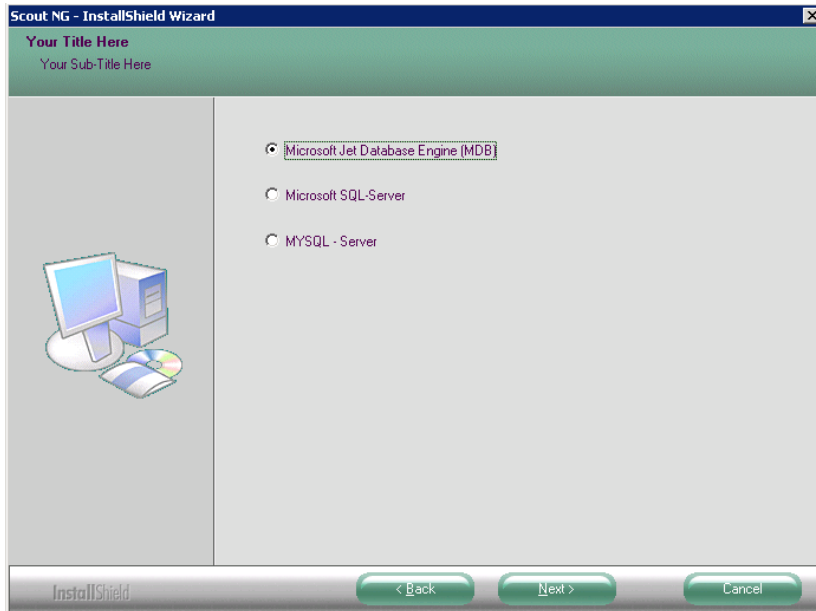
### 3.3 Installing Scout Enterprise

Logon as administrator and insert the eLux NG CD into the CD-ROM drive of your Windows system. If the Autorun function of the CD-ROM drive should be disabled, start the CD in **Windows** > setup.exe. Alternatively, we provide the Scout Enterprise Software on [www.myelux.com](http://www.myelux.com) for download. When the software has been downloaded, start with Setup.exe in the Scout Enterprise directory.

1. The InstallShieldWizard offers you the options to repair, modify or remove the Scout NG server. Please select „**Repair**“.



2. Next step is to define the database system in use. If you should not use any database system yet, select Microsoft Jet Database Engine (MDB). Otherwise select the database you want to use and enter the server name / IP address and your user name to access the database.



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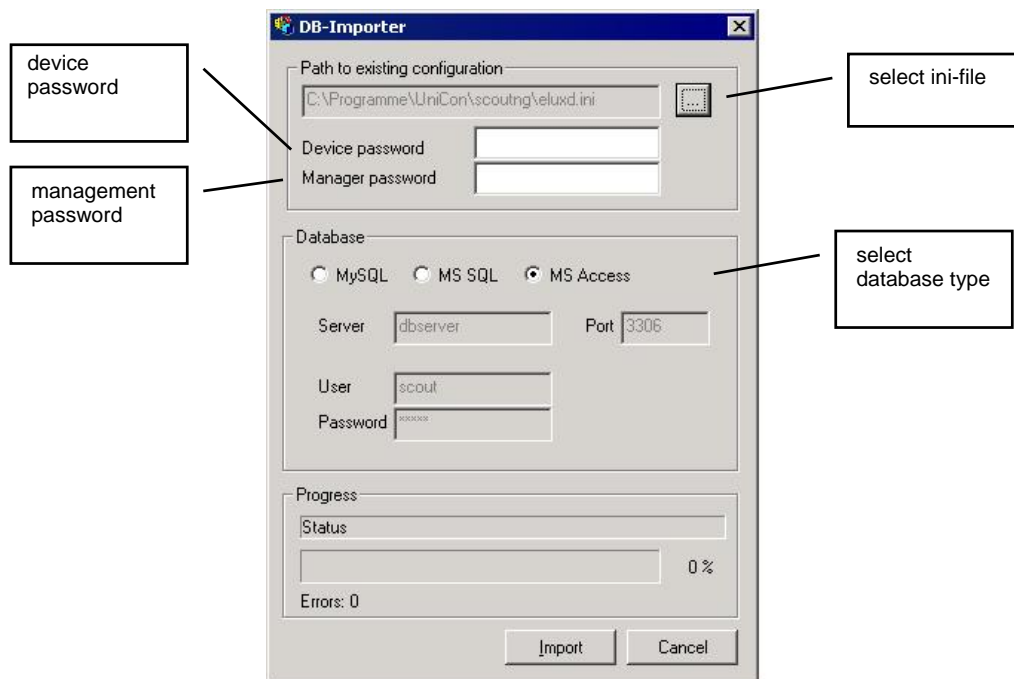
**NOTE** Configuration and licenses will **not** be transferred automatically after the installation of the Scout Enterprise Server. However, an import tool is provided. Please follow the instructions for the import of the configuration described in the next chapter: **Import of a Configuration from Scout NG to Scout Enterprise**.

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### 3.4 Import of a Configuration from Scout NG to Scout Enterprise

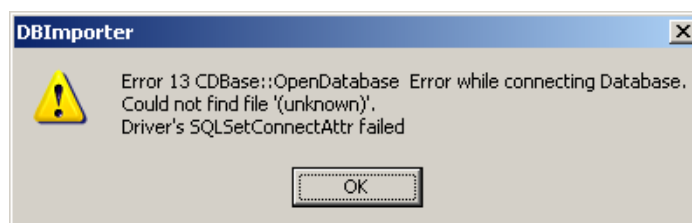
From **Start > Programs > Scout Enterprise** start the **Import Tool**.

- Press the '...' button and select the ini-file in the directory of the existing Scout NG configuration. If you have installed Scout Enterprise in the same directory as the existing Scout NG the directory should be preset correctly.
- Device password: enter device password (Options - Base configuration – Setup – Security) to verify that the existing configuration will be imported
- Manager password: Scout NG manager password (default: e1ux)
- Select the Database type (MS Access in case of using the Microsoft Jet Database Engine) and fill out the necessary fields.
- Click **Import**.
- Depending on the size of the existing Scout NG configuration and the selected database model the import may take quite a long time.
- The current status and detected errors, if any, are displayed in the progress area of the Import Tool.



### 3.5 Possible message

This message may appear, if "Path to existing configuration" is entered in UNC notation.



In this case set the permission for the share on the remote system to **'change'**.

---

## 4 Migration from Scout NG to Scout Enterprise with Server Transfer

This chapter describes how to migrate from Scout NG to Scout Enterprise changing the hardware at the same time. It contains all necessary information to install Scout Enterprise with the Recovery components, to import the configuration and data of your Scout NG installation, and to reactivate your Scout NG licenses for the new server hardware.

### 4.1 Requirements

- **Scout NG Server (source)** must be installed. You need administrator rights for this system.
- You also need administrator rights for the **target** system on which you want to install the Scout Enterprise server.
- **Scout Enterprise setup program** The Scout Enterprise setup is included on the eLux NG CD-ROM, which either comes with your delivery or can be downloaded from our website <http://www.mylux.com/> ("ELIAS, Scout, EBK > Scout NG Enterprise / ELIAS NG").
- **System requirements** Scout Enterprise needs a system with Windows 2000 Workstation (or higher), Windows XP Professional or Windows 2003 Server, **Service Pack 1**.
- **FTP or HTTP Server** You must have access to the root directory and at least 380 MB harddisk space, since the eLux NG container (the eLux NG software packages are stored in it) will be installed here.

### 4.2 Creating a Backup

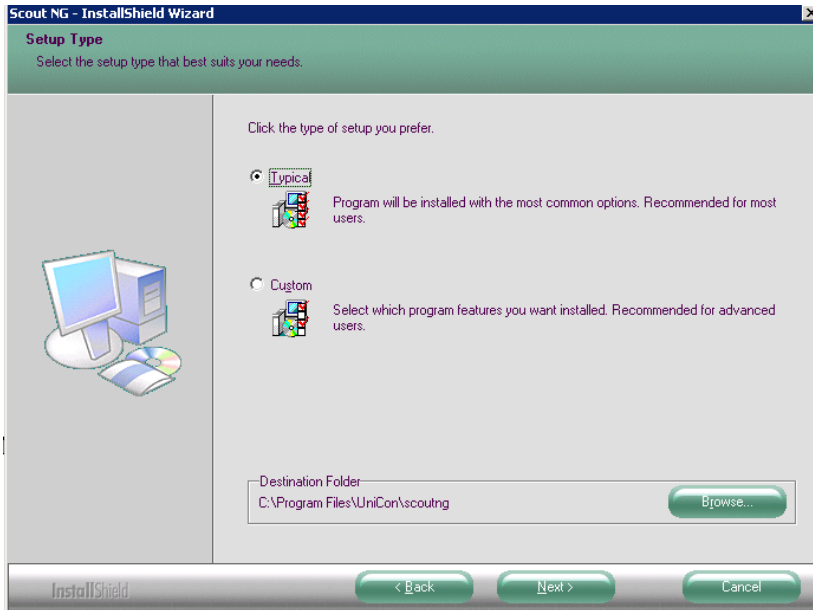
Please **do not uninstall** the the Scout NG Server nor the Scout NG licenses, unless you have saved your currently valid configuration.

For the backup please copy the installation directory of your current Scout NG installation and make it accessible for the new server platform.

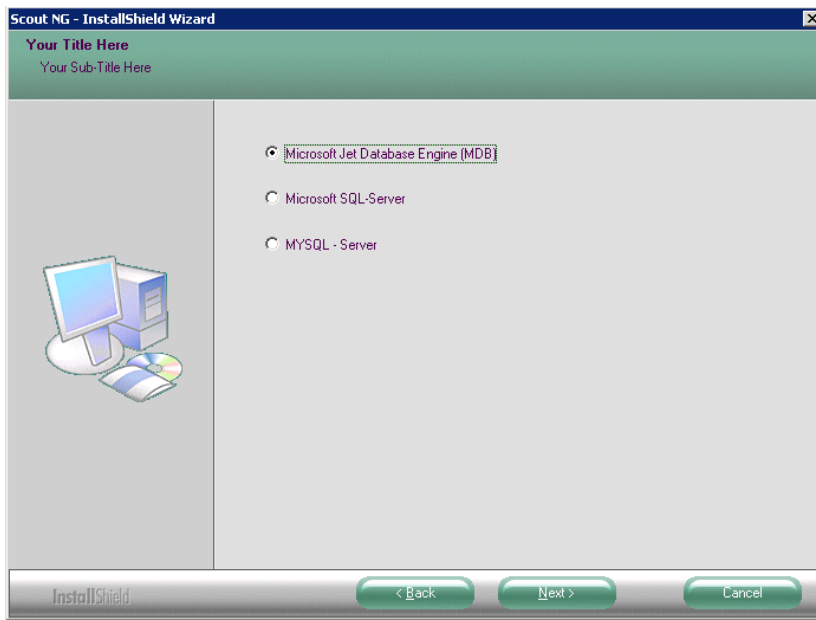
### 4.3 Installing Scout Enterprise

Logon as administrator and insert the eLux NG CD into the CD-ROM drive of your Windows system. If the Autorun function of the CD-ROM drive should be inactivated, start the CD in **Windows > setup.exe**. Alternatively, we provide the Scout Enterprise Software on [www.mylux.com](http://www.mylux.com) for download. When the software has been downloaded, start with Setup.exe in the Scout NG directory.

1. The InstallShieldWizard offers you the options **Typical** or **Custom** for the installation. In case of **Typical** the most frequently used services are installed automatically. When you select **Custom** you can define which Scout Enterprise components are to be installed (Scout Enterprise Server, Scout Enterprise Console, Recovery components, BootP Server).



2. Next step is to define the database system in use. If you should not use any database system yet, select Microsoft Jet Database Engine (MDB). Otherwise select the database you want to use and enter the server name / IP address and your user name to access the database.



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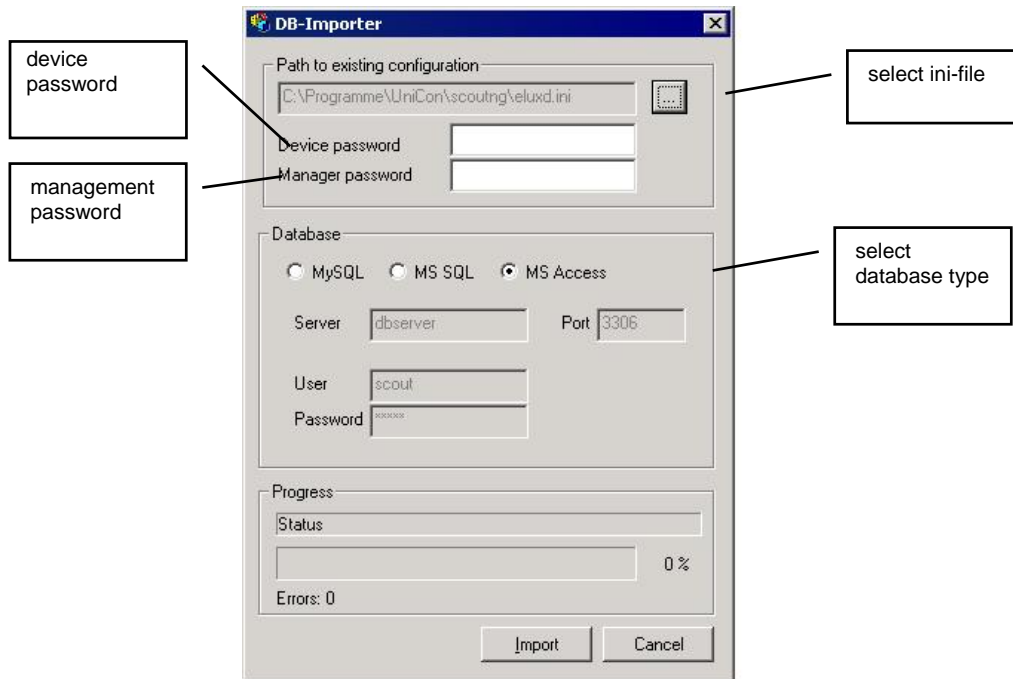
**NOTE** Configuration and licenses will **not** be transferred automatically after the installation of the Scout Enterprise Server. However, an import tool is provided. Please follow the instructions for the import of the configuration described in the next chapter: **Import of the Scout NG Configuration into the Scout Enterprise Database.**

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#### 4.4 Import of the Scout NG Configuration into the Scout Enterprise Database

From **Start > Programs > Scout Enterprise** start the **Import Tool**.

- Press the '...' button and select the ini-file in the directory of the existing Scout NG configuration. If you have installed Scout Enterprise in the same directory as the existing Scout NG the directory should be preset correctly.
- Device password: Enter the device password (Options - Base configuration – Setup – Security) to make sure that the existing configuration will be imported.
- Manager password: Enter the Scout NG manager password (default: `eLux`)
- Select the Database type (MS Access in case of using the Microsoft Jet Database Engine) and fill out the necessary fields.
- Click **Import**.
- Depending on the size of the existing Scout NG configuration and the selected database model the import may take quite a long time.
- The current status and detected errors, if any, are displayed in the progress area of the Import Tool.



#### 4.5 Possible Message

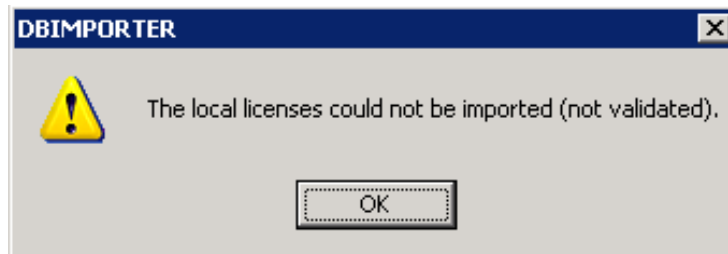


This message may appear, if "Path to existing configuration" is entered in UNC notation. In this case set the permission for the share on the remote system to **'change'**.

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**NOTE:** Scout licenses are not automatically transferred to the new server, but must be reactivated to the host-id of the new server in the Product Activation Center of <http://www.myelux.com> (see chapter **4.6 Reactivating Scout NG Licenses**). This is why the following message will pop up three times during the import of the Scout NG configuration (for local, served and client licenses).

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In this case management licenses must be reactivated and re-entered into Scout Enterprise.

---

**Note:** Product licenses (such as eLux NG or eLux NG+Scout(built-in) as well as 3<sup>rd</sup> Party licenses) are stored on the clients. This is why they cannot and need not be reactivated nor re-entered at the new server. If not all of the product licenses should have been used before server transfer, please inform UniCon Software GmbH ([sales@unicon-ka.de](mailto:sales@unicon-ka.de)) requesting a new license certificate for the licenses not used so far. Please save the .db files of the old Scout installation, because these show the quantity of licenses already in use.

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## 4.6 Reactivating Scout NG Licenses

In case of server transfer Scout NG licenses are to be reactivated on <http://www.myelux.com>. After the Login please open the Product Activation Center, select the relevant Scout NG license and start the reactivation procedure by clicking the button „Reactivate“. Providing the host id of your new server you will get an activation code which is to be entered in your Scout Enterprise server.

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**Note:** Product licenses like eLux NG or eLuxNG+Scout(built-in) as well as 3<sup>rd</sup> party licenses need not and cannot be reactivated, because they are stored on the clients.

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## 4.7 Entering New Licenses

**10.1 License Types** provides an overview of the license types.

Please proceed as follows after the installation of the Scout Enterprise Server:

1. Logon to Scout Enterprise
2. Enter the Scout management licenses. They can be used immediately. Please activate them within the activation period (30 days) on <http://www.myelux.com/>. After that period the licenses will be invalid, if not activated. However, they can still be activated after this period.
3. Enter the eLux NG (eLux NG or Update eLux 1.x → eLux NG) licenses, if these have been delivered separately, i.e. not integrated in the client. Non-integrated license base keys must be entered in Scout Enterprise and activated in the Product Activation Center on <http://www.myelux.com/>.

Detailed information on license reactivation is provided in our *Scout Enterprise administrator's guide*.

## 4.8 Uninstall Scout NG

When you succeeded to update Scout NG to Scout Enterprise, you may uninstall your Scout NG installation via **Start > Settings > Control Panel > Software** from the system.

---

## 5 Scout Enterprise Server Transfer

### 5.1 Requirements

- You need **administrator** rights on the target system of the Scout Enterprise installation.
- **Scout Enterprise setup program** The Scout Enterprise setup is included on the eLux NG CD-ROM, which either comes with your delivery or can be downloaded from our website <http://www.myelux.com/> ("ELIAS, Scout, EBK > Scout Enterprise / ELIAS NG").
- **System requirements** Scout Enterprise needs a system with
  - Windows 2000 Workstation (or higher), Windows XP Professional or Windows 2003 Server, **Service Pack 1**.
  - 30 MB Harddisk space
  - Database system, e.g. the Microsoft Database Jet Engine (MDB) included in Windows or optional: Microsoft<sup>®</sup> SQL Server oder MySQL<sup>®</sup> Server.

### 5.2 Server Transfer Scout Enterprise > 8.5.0: Licensing

When transferring the Scout Enterprise Server, **version 8.5.0 or higher** to another hardware, the Scout NG licenses need not be reactivated any longer. Since Scout Enterprise version 8.5.0 the Scout licenses are mapped to a universal host id.

### 5.3 Server Transfer Scout Enterprise < 8.5.0: Licensing

When transferring the Scout Enterprise Server lower than **version 8.5.0** to another hardware, your Scout licenses must be reactivated, in order to enable entering these on the new server hardware.

### 5.4 Creating a Backup of your MDB file

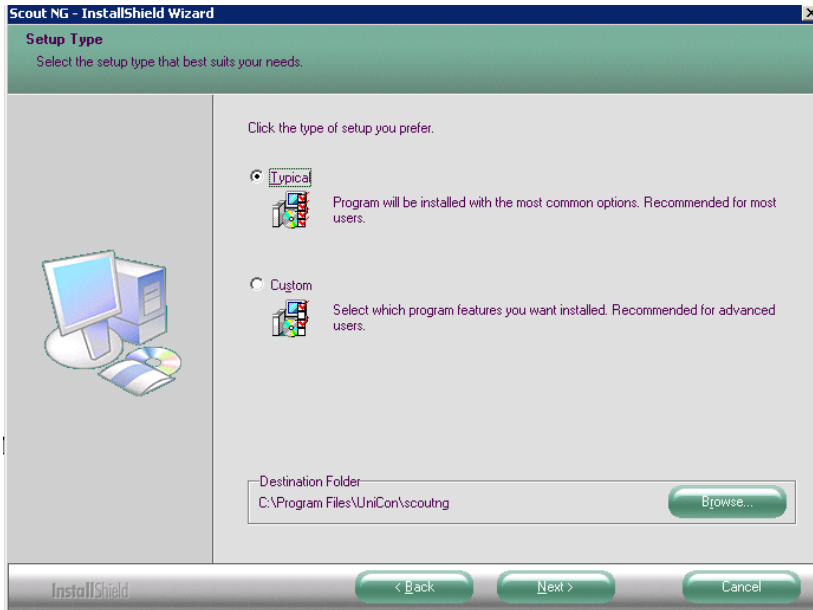
Before uninstalling the Scout Enterprise Server please make a backup of your currently valid mdb file (e.g. C:\Programs\UniCon\Scout Enterprise\ScoutNG.mdb).

This backup file should be made accessible for the new server platform, e.g. on a network drive.

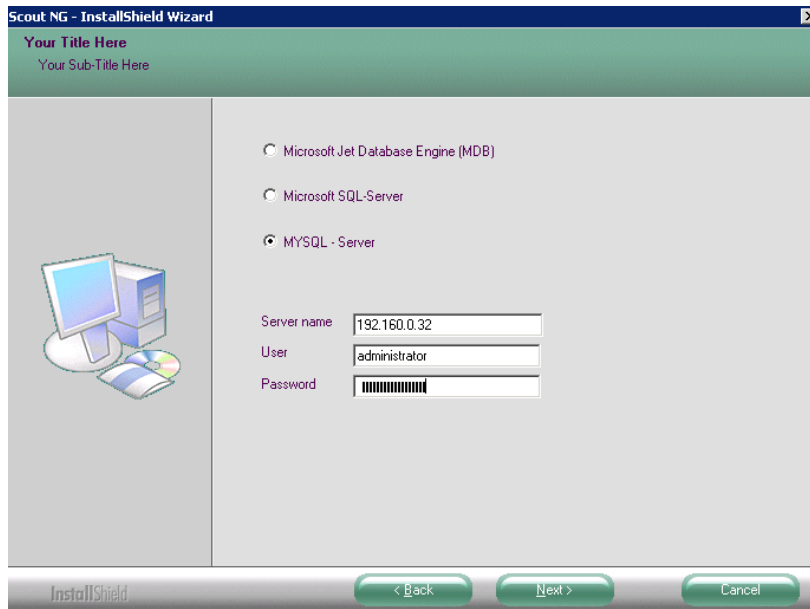
### 5.5 Installing Scout Enterprise

Logon as administrator and insert the eLux NG CD into the CD-ROM drive of your Windows system. If the Autorun function of the CD-ROM drive should be inactivated, start the CD in **Windows > setup.exe**. Alternatively, we provide the Scout Enterprise Software on [www.myelux.com](http://www.myelux.com) for download. When the software has been downloaded, start with Setup.exe in the Scout NG directory.

1. The InstallShieldWizard offers you the options **Typical** or **Custom** for the installation. In case of **Typical** the most frequently used services are installed automatically. When you select **Custom** you can define which Scout Enterprise components are to be installed (Scout Enterprise Server, Scout Enterprise Console, Recovery components, BootP Server).



2. Next step is to define the database system in use. If you should not use any database system yet, select Microsoft Jet Database Engine (MDB). Otherwise select the database you want to use and enter the server name / IP address and your user name to access the database.



## 5.6 Import of the Configuration Data

This chapter describes the required steps to import your data from the existing database to the new Scout Enterprise installation.

- **MySQL Server**

All configuration data of your „old“ installation reside on a central database, so that these data are accessible **without an import**. You have already defined the access to the database during the installation by entering the IP address resp. the host name and the user specification.

- **Microsoft SQL-Server**

When using a SQL-Server database all configuration data of your „old“ installation also reside on a central database, so that these data are accessible **without an import**. You have already defined the access to the database during the installation by entering the IP address resp. the host name and the user specification.

- **Microsoft JET Database Engine (MDB)**

For safety reasons, please create a backup of the file “ScoutNG.mdb”. Close your Scout Enterprise application and copy the file ScoutNG.mdb into your installation directory (e.g.: C:\\Programs\\UniCon\\ScoutEnterprise\\ScoutNG.mdb). Then you may logon to the Scout Enterprise Server as usual. All configurations, devices and licenses should be available as before. If there should not be a Scout NG license against all expectations, it must be reactivated and assigned to the host-id of the new hardware.

## 5.7 Reactivating Scout Licenses

Only in case the Scout licenses should not be available on the new Scout Enterprise server after the server transfer, the Scout licenses are to be reactivated on <http://www.myelux.com>. After the Login please open the Product Activation Center, select the relevant Scout license and start the reactivation procedure by clicking the button „Reactivate“. Providing the host id of your new server you will get an activation code which is to be entered in your Scout Enterprise server.

---

**Note:** Product licenses like eLux NG or eLuxNG+Scout(built-in) as well as 3<sup>rd</sup> party licenses need not and cannot be reactivated, because they are stored on the clients.

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## 5.8 Entering New Licenses

Chapter **10 Licenses** provides an overview of the license types.

Please proceed as follows after the installation of the Scout Enterprise Server:

1. Logon to Scout Enterprise.
2. Enter the Scout NG management licenses. They can be used immediately. Please activate them within the activation period (30 days) on <http://www.myelux.com/>. After that period the licenses will be invalid, if not activated. However, they can still be activated after this period.

Detailed information on license reactivation is provided in our *Scout Enterprise administrator's guide*.

---

## 6 Migration from eLux 1.x to eLux NG via Firmware Update

This chapter describes the migration from eLux 1.x to eLux NG. Select ONE of the 3 methods:

- Firmware Update
- Recovery via Network
- Recovery from CD

To perform a migration, you must have eLux 1.1 installed (if you are using 1.0, either update to 1.1 first, or perform the network or CD recovery described in this paper).

### 6.1 Requirements

- Thin Client with eLux 1.1. The devices must be managed by Scout NG.
- Scout NG Server (Version 5.2.4 or higher) with ELIAS NG (Version 5.2.3 or higher) or Scout NG Enterprise
- LAN connection
- eLux 1.1 Container
- eLux NG Container with BaseOS 1.2-2 or higher
- FTP or HTTP server. You require access to the server where the 1.1 container **and** NG container are installed. It can, but does not have to be, the same machine.

### 6.2 eLux NG Migration Installer

This section assumes you are familiar with working with image definition files (IDFs) using the software ELIAS NG. ELIAS NG is not described in this paper. For information on how to use ELIAS NG, please see the *Scout Enterprise Administrator's Guide*.

To prepare the eLux 1.1 IDF for migration, proceed as follows:

1. Log on to the Web site [www.mylux.com](http://www.mylux.com). Under **Download** click **eLux software packages**. This opens the **Available containers** page. In the "eLux 1.1" area select your hardware platform (Futro B100 or Futro D100) and click the link under "Hotfix packages." This will redirect you to the hotfix page.
2. Download the package **eLuxNG Migration installer**. It will be in \*.tgz format. This package enables you to install eLux NG via firmware update and the existing network setup (otherwise you will have to perform a recovery). Save it to your PC.
3. Quit the Internet. Unzip the file you just downloaded.
4. Start ELIAS NG.
5. Open the eLux 1.1 container for your hardware.
6. Import the unzipped package using the command **Container > Import package**.
7. In ELIAS NG open the IDF currently installed on the thin client and add the package "eLux NG Migration installer". You may have to remove packages to keep the IDF from exceeding the flash size.
8. Save the new image.

### 6.3 eLux NG Container Settings

The eLux NG Migration Installer causes the Thin Client to retrieve an eLux NG IDF over the network from the update server (FTP or HTTP server) and install it on the device.

Normally, the update server parameters are set during Scout installation. If you used default settings, no further configuration is required. Go to the next section.

If you are using a different update server, or if your container path has changed since installation, or if you wish to specify the eLux NG IDF to install, you will have to reconfigure the parameters. The procedure is described below.

1. Log on as administrator to the Scout NG (or Enterprise) Server.
2. Select **Recovery settings** from the **Options** menu.
3. Enter the update server protocol:
  - **HTTP** if the update server is an HTTP server. Enter the proxy IP address or name, and the proxy port number, if used (optional).
  - **FTP** if the update server is an FTP server. We recommend you access the FTP server using a user account. However, “anonymous” FTP is supported.

Enter the remaining update server settings:

- **Server** Enter the IP address or name of the update server.
- **Username** and **password**. If no username or password is defined for the server, enter elux as the password and username. Do not leave blank.
- **Path** Enter the following: eluxng/\_\_\_CONTAINER\_\_\_
- The text “\_\_\_CONTAINER\_\_\_” is a macro in eLux NG. During the update procedure, the device’s hardware type will automatically be detected and the macro text “\_\_\_CONTAINER\_\_\_” will be replaced with the correct container name.
- **Image file** Enter the following: recovery\_\_\_SIZE\_\_\_idf  
The text “\_\_\_SIZE\_\_\_” is a macro. During the update procedure, the device’s flash size will automatically be detected and the correct recovery IDF will be installed. Alternatively, you can enter the name of the NG IDF you wish to install. Note that in this case the NG IDF may not exceed the flash size of the device.

For more information on macros, please see the *Scout NG Administrator’s Guide*.

4. Save the Scout NG (or Enterprise) configuration.
5. Restart the devices. These settings will be converted to an environment variable and transferred to the device.

**It is mandatory to restart the devices before continuing.**

---

**Warning** The devices must be managed by Scout NG or Scout Enterprise for the container settings to be transferred.

---

## 6.4 Initiating the Update

The procedure is initiated when you install the eLux NG Migration Installer on the device.

First, go to Setup > **Firmware** for the device(s) and deselect “Check for update on boot”.

Next, install the 1.1 IDF you created as described in 6.3. You can update an individual device or group/organization unit from the context menu (right click on the device > **Update**) or all devices from the Command Scheduler (**View** menu > **Schedule**).

If the configuration is correct, the procedure will run automatically. No further effort is required on the part of the administrator.

---

## 7 Migration from eLux 1.x to eLux NG via Network Recovery

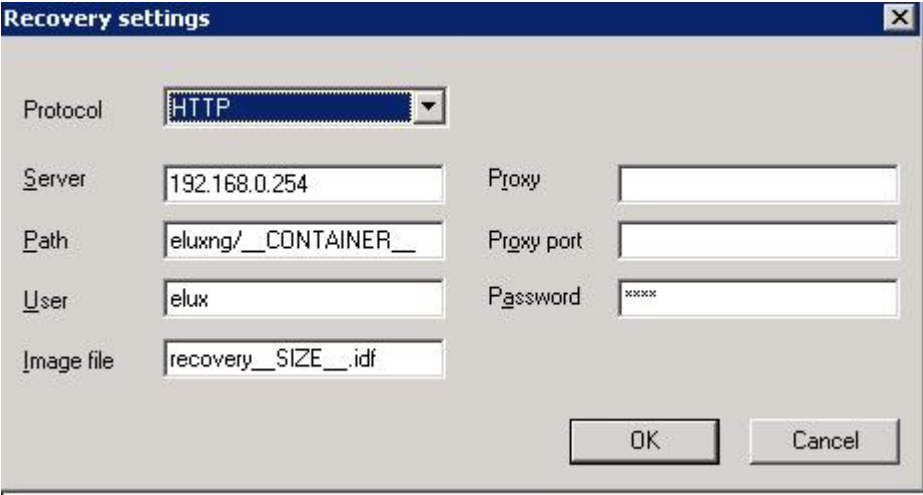
### 7.1 Requirements

- Thin Client. The BIOS of the Thin Client must support “Pre-Execution Boot Environment” (PXE).
- Local-Area Network (LAN) connection
- Boot server: DHCP server from Windows NT<sup>®</sup> 4.0 Server with Service Pack 6a, Windows 2000 or Windows Server<sup>™</sup> 2003. The boot server must be in the same LAN segment.
- Recovery server: FTP or HTTP server
- TFTP server from Scout NG setup. This is installed by selecting the “Recovery” component during Scout NG installation.

### 7.2 Recovery Settings

Normally, the update server parameters are set during Scout NG (or Enterprise) installation. If you used default settings, no further configuration is required. Go to the next section.

If you are using a different update server, or if your container path has changed since installation, or if you wish to specify the eLux NG IDF to install, you will have to reconfigure the parameters. The procedure is described below.



1. Log on as administrator to the Scout Server.
2. Select **Recovery settings** from the **Options** menu.
3. Enter the update server protocol:
  - **HTTP** if the update server is an HTTP server. Enter the proxy IP address or name, and the proxy port number, if used (optional).
  - **FTP** if the update server is an FTP server. We recommend you access the FTP server using a user account. However, “anonymous” FTP is supported.

Enter the remaining update server settings:

- **Server** Enter the IP address or name of the update server.
- **Username** and **password**. If no username or password is defined for the server, enter `elux` as the password and username. Do not leave blank.
- **Path** Enter the following: `eluxng/ __CONTAINER__`

The text “`__CONTAINER__`” is a macro in eLux NG. During the recovery procedure, the device’s hardware type will automatically be detected and the macro text “`__CONTAINER__`” will be replaced with the correct container name.

- **Image file** Enter the following: `recovery__SIZE__.idf`

The text “\_\_SIZE\_\_” is a macro. During the recovery procedure, the device’s flash size will automatically be detected and the correct recovery IDF will be installed. Alternatively, you can enter the name of the NG IDF you wish to install. Note that in this case the eLux NG IDF may not exceed the flash size of the device.

For more information on macros, please see the *Scout NG Administrator’s Guide*.

4. Save the Scout NG (or Enterprise) configuration.
5. Restart the devices. These settings will be converted to an environment variable and transferred to the device.

### 7.3 Configuring the DHCP Server for PXE

During a recovery, the Thin Client loads its boot file over the network from a boot server. The boot server is a DHCP server.

1. Log on as administrator to the computer running the DHCP server.
2. Open the DHCP manager.

Windows NT: **Start > Programs > Administration (General) > DHCP Manager**

Windows 2000: **Start > Programs > Administrative Tools > DHCP**

3. In the DHCP manager, go to the dialog box for configuring options.

Windows NT: Click to select the scope of the DHCP server you would like to configure. In the **Options** menu, select **Global** to configure the options for all scopes for that server, or **Scope** to configure the options for that scope. The **DHCP options** dialog box opens.

Windows 2000: Click to select either the server options, scope options or a reservation. In the **Action** menu select **Configure**. In the **Options** dialog box go to the **General** tab.

(Alternatively: **Advanced** tab > select **DHCP Standard options** from the **Vendor class** drop-down list.)

4. The following options are standard and should already be configured. If not, please add:

003 Router:	Enter one or more router IP addresses
006 DNS Servers:	Enter the DNS server IP address
015 Domain Name:	Enter the DNS domain name

The following two options are PXE specific and must be configured:

<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>

This completes the DHCP server configuration. The PXE settings can remain on the DHCP server without affecting normal network operation. If the parameters do not change, they only have to be configured once.

### 7.4 DHCP Options (optional)

You can configure DHCP server so that Thin Clients will automatically be entered in Scout NG Server after the recovery.

This method is supported by most DHCP servers, including older versions. It uses the standard options 222 and 223. If options 222 and 223 are unavailable, you cannot use this method.

1. Open the DHCP Manager (**Start > Programs > Administration (General) > DHCP Manager**).
2. Click to select your DHCP server. In the **Action** menu select **Set Predefined Options**.
3. Select **DHCP Standard options** from the “Option class” drop-down menu. Click **Add**. The **Option Type** dialog box appears.
  - **Name** Enter “Scout NG Server”
  - **Data type** Select “Character string”
  - **Code** Enter “222”

- **Description** Enter the “Name/IP address of Scout NG Server”  
Click **OK** and **Add** to enter a second option (optional):
  - **Name** Enter “Scout NG group ID”
  - **Data type** Select “Long”
  - **Code** Enter “223”
  - **Description** Enter the “Device group ID on the Scout NG Server”  
Note: **Array** should not be selected.  
Click **OK**.
4. In the DHCP manager, click to select either the server options, scope options or reservations. In the **Action** menu select **Configure**. In the **Options** dialog box go to the **General** tab. (Alternatively: **Advanced** tab > select **DHCP Standard options** from the **Vendor class** drop-down list.) Configure the two options:
- **222** Enter the IP address/name of the Scout NG server
  - **223** Enter the Scout NG ID number of the destination group

## 7.5 Initiating the Recovery

A recovery is initiated on the client. The method used to initiate a recovery depends on your hardware platform. The device BIOS must support PXE.

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 (in most cases, F1).

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

- **To configure the protocol on the Thin Client:**

1. Upon boot, press the function key that opens BIOS for your hardware platform. See the documentation that was included with the Thin Client if you are unsure (in most cases, F2).
2. Set “LAN remote boot” to PXE.
3. Save your settings and exit BIOS.

- **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 Thin Client if you are unsure (in most cases, F12).
2. Select PXE and press ENTER.
3. A message appears, allowing you to cancel the procedure. To proceed, press one of the following keys (keyboard layout is English):

- **A** Installs eLux NG for the detected hardware using the corresponding container:

Futro B 100	UC_GEODE_P1
Futro B 200	UC_VIA
Futro C and D	UC_INTEL_P3
Futro S	UC_TRANSMETA

Platform detection is only available for thin clients from Fujitsu Siemens Computers. For devices from other manufacturers, this option will not be displayed.

- **B** Installs eLux NG for PC

4. The recovery starts. **Do not turn off the Thin Client off during a recovery!**
5. After a successful boot, a “Success” message appears and the Thin Client restarts.

For normal eLux NG operation, the BIOS settings can remain on the device.  
This completes the recovery.

If you did not set DHCP options as described in step **7.4 DHCP Options (optional)** after a recovery the devices will initially not be managed. In Scout NG, perform a discovery to re-enter devices. Previously registered devices will not change groups. Rather, their status will be updated.

---

## 8 Migration from eLux 1.x to eLux NG by CD-Recovery

This section describes how to recover from eLux 1.x to NG via CD recovery.

A recovery destroys all data on the flash card/hard disk and installs the eLux NG software. It is not reversible. It is the only way to install eLux NG on a Thin Client running eLux 1.0. **Note:** Not available for Geode.

### 8.1 Requirements

- eLux NG recovery CD. This is a bootable CD available from your supplier, or the eLux NG recovery CD image can be downloaded from the Web site [www.mylux.com](http://www.mylux.com) and burned to a CD in ISO format.
- CD-ROM drive (IDE or USB)
- Thin Client: BIOS support of CD boot
- A USB keyboard may not be used with USB CD-ROM

### 8.2 Recovery Procedure

1. On the Thin Client, insert the CD.
2. A warning appears, asking if you want to perform the recovery. (Please note that recovering to eLux NG is not reversible and that the terminal will initially be unlicensed!) Click **Y** to start the recovery (or **Z** or **J**).
3. When the recovery has finished, the CD is ejected and the Thin Client reboots.

If the recovery does not start immediately, confirm that “CD-ROM drive” comes before “harddisk” in the BIOS Setup boot options and that you are using the correct CD.

This completes the eLux NG migration. The following sections provide useful troubleshooting and diagnostics information.

---

## 9 Diagnostics

### 9.1 Licensing eLux NG

When you update from eLux 1.x to eLux NG, initially the terminal will be unlicensed. This is because eLux NG is a new product with a whole new range of features.

An unlicensed terminal starts in test mode. You may log on to eLux NG 40 times without a license. Afterward, you must enter an update license to continue using eLux NG.

Please see section **10 Licenses** for detailed information.

### 9.2 Diagnosing Firmware Update

Helpful Tips

- Before updating all the devices in your network, we highly recommend testing an update on a single device.
- If the update is interrupted, once you have fixed the problem it is not sufficient to continue where you left off. You must start from the beginning. Remove the eLux NG Migration Installer from the 1.1 IDF, install this image, add the eLux NG Migration installer to the 1.1 IDF, and install this image.
- When editing your IDF, please be aware that new features have been implemented in ELIAS NG. For example, due to the new dynamic partitioning feature of eLux NG (this allows you to install eLux on hard disks as well as flash cards), the total flash size is shown in the bar at the bottom of the screen and there is no warning if you exceed the actual flash size (the wrong flash size will cause the update to fail).
- You can use macros both in the firmware parameters for the new 1.1 IDF and in the ELUXNGURL for the new NG IDF. Please be aware that the macros have changed in NG, and inform yourself before using them. See the NG manuals for more information.

### 9.3 Frequently asked Questions:

FAQ

**Q:** The procedure did not work because I forgot a step. After fixing this, can I continue where I left off?

**A:** No. You must start from the beginning. Remove the eLux NG Migration Installer from the 1.1 IDF, install this image, add the eLux NG Migration installer to the 1.1 IDF, and install this image.

**Q:** The procedure stopped and I don't know why!

**A:** Check the update log.

**Q:** The update log does not list an error.

**A:** The log containing the error was most likely overwritten. There is no way to retrieve this log. To prevent this, go to Setup > **Firmware** for the device and deselect "Check for update on boot". Repeat the procedure.

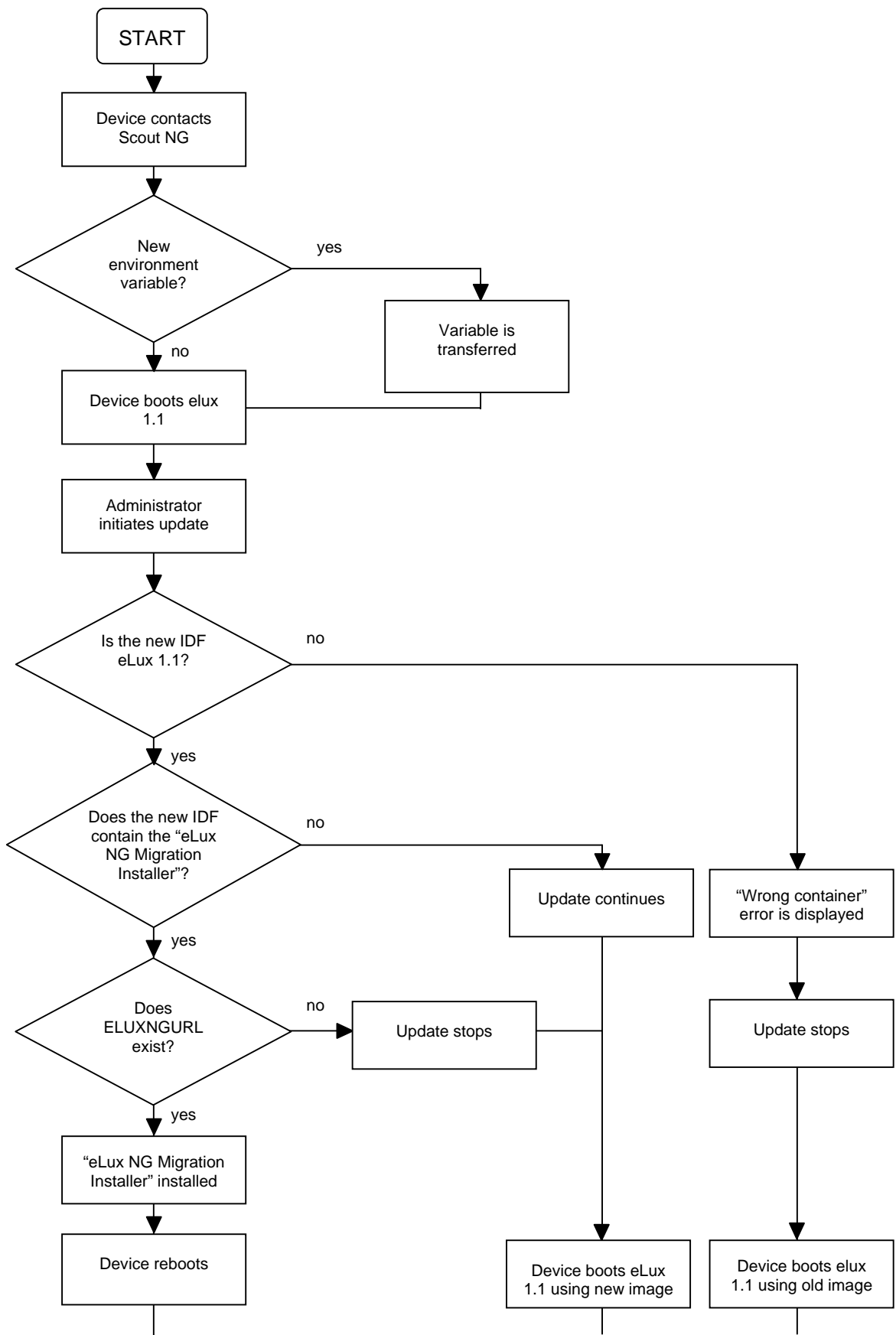
**Q:** When I'm done, do I have to re-enter the devices in the manager?

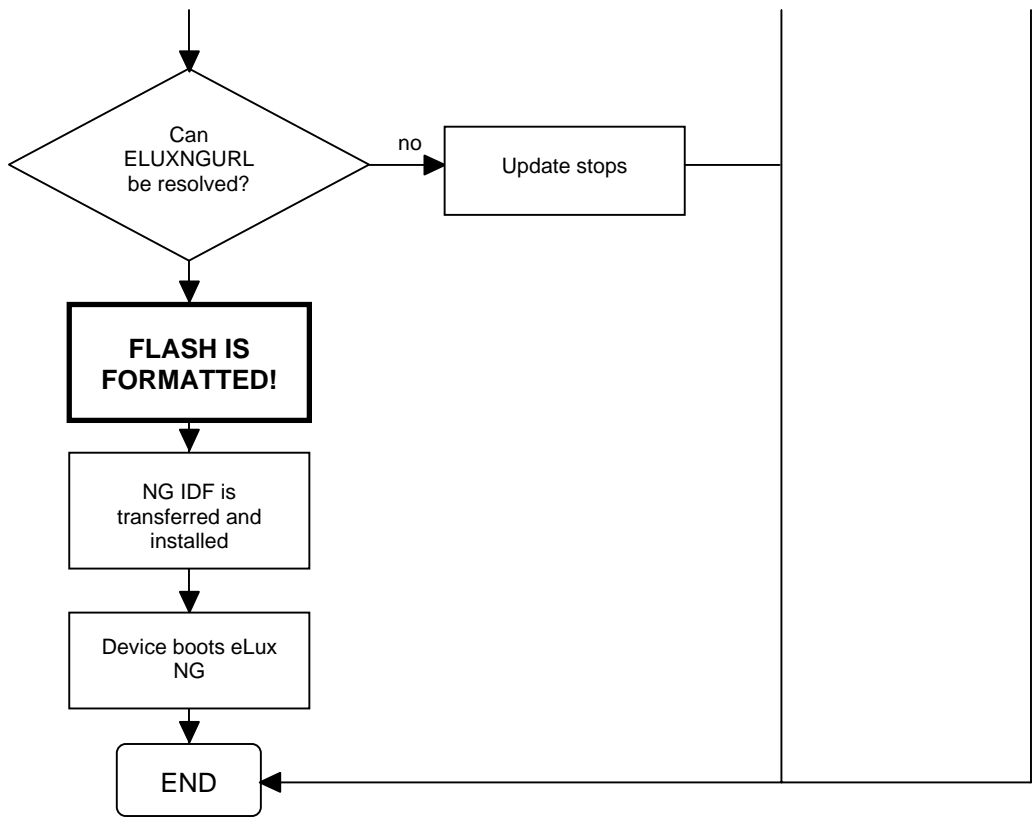
**A:** No. The manager setting on the device is not deleted.

**Q:** The procedure was successful, but now my terminal is unlicensed!

**A:** See section 10 Licenses We recommend obtaining update licenses for eLux NG and Scout NG in advance. Please be aware that update licenses are not free.

## 9.4 Boot Procedure





## 9.5 Diagnosing Network Recovery

**Problem:** After beginning a PXE recovery, a DHCP time-out occurs and the terminal just boots.

**Solution:** The DHCP server failed to respond. Check the network connection. Check the DHCP server's log file for the client to receive an IP address. Adapt DHCP Server settings if necessary.

**Problem:** The terminal begins a PXE recovery, then boots normally or displays a TFTP time-out error:

```
TFTP open timeout
```

**Solution:** The TFTP server failed to respond. Check if the TFTP server is available. Check the log file of the TFTP daemon. Check the router/gateway and boot server settings for DHCP.

**Problem:** After beginning a PXE recovery, the following message is displayed:

```
TFTP Error - File not found  
and the terminal just boots.
```

**Solution:** The TFTP server failed to send the bootfile (pxelinux.0). Check bootfile settings for your DHCP server and TFTP server log. Check access rights for the TFTP server's root directory.

During a network recovery, package installation will be displayed graphically. You can press CTRL – ALT – F4 to leave graphics mode and switch to a text screen. This is useful for troubleshooting, to view any error messages that may be displayed.

## 9.6 Diagnosing CD Recovery

A USB keyboard may not be used with USB CD-ROM.

You must use the "eLux NG recovery CD," which is bootable. It is available from your supplier or the CD image can be downloaded from the Web site [http:// www.mylux.com](http://www.mylux.com) and burned to a CD in ISO format.

---

## 10 Licenses

When you update from eLux 1.x to eLux NG, initially the terminal will be unlicensed. This is because eLux NG is a new product with a whole new range of features. You will need an update license.

To manage Thin Clients using Scout eL Server, you need a Scout eL management license. To manage Thin Clients using Scout NG, you need a Scout NG management license.

---

Verify that you have the correct type and number of eLux NG and Scout NG licenses before continuing.

---

### 10.1 License Types

- **Scout NG** To manage clients running eLux NG, if you did not previously use the Scout NG Server. Package size: 250 and 1000 licenses.
- **Upgrade eLux NG → eLux NG+Scout (built-in)**  
For < 250 clients, this license is for upgrading from clients with eLux NG to eLux NG+Scout. The clients can then be managed by the Scout NG management system. Meaningful when the clients are already licenses for eLux NG.
- **Update Scout eL → Scout NG**  
If you previously used Scout eL, existing eL licenses can be updated in fixed package sizes of 250 and 1000. You must have at least 250 or 1,000 activated Scout eL licenses in your database to be able to enter the update license.
- **Update eLux 1.x → eLux NG+Scout (built-in)**  
For < 250 clients, this license is for
  - updating the desired number of clients from eLux 1.x to eLux NG,
  - updating from Scout eL to Scout NG using the built-in Scout NG management license.
- **Update eLux 1.x → eLux NG** To update eLux 1.x clients to eLux NG. You order the number of licenses you need and receive one license key for the desired amount.  
**Free** Updating to eLux NG and Scout NG is free for eLux 1.x clients bought after 1.10.2003. Procedure: Logon [www.mylux.com](http://www.mylux.com), under Service → Product Activation Center → click eLux NG Update. You receive the update license for a device after entering the serial number and the host ID. This license is not to be activated and must be entered locally on the client. The free update for Scout eL is also available here.

Example

Say you have an installation with 324 Thin Clients running eLux 1.x. Your Scout eL Server contains 1 Scout eL management license for 250 devices, 1 Scout eL management license for 50 devices, and 3 Scout eL management licenses for 10 devices for a total of 330 management licenses. This leaves you with 6 unused management licenses, as Scout eL licenses could only be bought in packs.

BEFORE (eL / 1.1 NETWORK)			AFTER (NG NETWORK)		
Qty	License	Package Size	Qty	License	Package Size
1x	Scout eL	250	1x	Upd Scout eL > NG	250
1x	Scout eL	50	250x	Upd eLux 1.x > NG	1
3x	Scout eL	10	74x	Upd eLux 1.x > NG + Sct	1
324x	eLux 1.x				

After the migration to NG, you have 324 devices to manage and 330 Scout eL licenses in your database. You buy 1 Scout NG update license for 250 devices. This leaves 74 devices over without a management license.

You buy 250 eLux 1.x > NG update licenses and 74 eLux NG + Scout update licenses.

The benefit is that you no longer have to buy a fixed amount of Scout NG management licenses. In addition, the built-in license “migrates” with the device should you choose to enter it in a different server. In our example, all licenses are to be entered in Scout NG. The eLux NG update licenses will be distributed automatically, reducing administrator effort.