



# eLux RP

## Administrator's Guide

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## 0. Legal information

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# 1. Representation

The following representations and conventions for instructions are used throughout the documentation:

Representation	Description
<b>Control element</b>	All graphical user interface controls are displayed in <b>bold</b>
<b>Menu &gt; menu command</b>	Whenever running a command involves clicking a series of menus, the single GUI controls such as menu commands or dialog tabs are linked by <b>&gt;</b> .
Value	All data that have to be entered by the user or data that represent a field value are displayed in <code>Courier New</code> . Also, file names and path names are displayed in <code>Courier New</code> .
STRG	Keys to be pressed are displayed in CAPITAL LETTERS.
<Placeholder>	Placeholders in instructions and user input are displayed in <i>italics</i> and in <angle brackets>.
1. Instruction	Procedures to be carried out step by step are realized as numbered steps.
Result	System responses and results are displayed in <i>italics</i> .

## Abbreviations and acronyms

Abbreviation	Description
AD	Active Directory , directory service of Microsoft Windows Server
EBKGUI	Interface of the eLux Builder Kit (component of Scout Enterprise)
EPM	eLux package module ( <code>.epm</code> , software package)
FPM	Feature package module ( <code>.fpm</code> , part of a software package)
FQDN	Fully qualified domain name
GB	Gigabyte
GHz	Gigahertz (processing speed)
HDD	Hard disk drive (flash memory)
IDF	Image Definition File ( <code>.idf</code> )
IIS	Internet Information Services: Microsoft Web server
MB	Megabyte
OU	Organizational unit Unit or group within the organizational structure
VPN	Virtual Private Network

---

## 2. Overview and general information

### 2.1. About eLux RP

eLux®RP is a hardware-independent operating system designed for cloud-computing environments. It can be run by both, common PCs and Thin Clients. eLux is based on Linux and provides a write-protected file system which makes it secure against computer viruses and other malware.

This guide supports the system administrator in installation, maintenance and operation of Thin Clients and PCs running eLux RP, hereafter referred to as **eLux**.

This guide assumes knowledge of

- installation, maintenance and operation of computer networks and peripherals
- operating system skills of the server machines in use



#### Note

eLux RP 5 clients can be managed by Scout Enterprise Management Suite 14 or 15. eLux RP 6 clients require the Scout Enterprise Management Suite version 15. Note that the respective versions must be compatible. For further information, see [Compatibility client platform and Scout Enterprise Management Suite](#).

---

Beginning with Scout Enterprise Management Suite 15.1 and eLux RP 6.1, the management protocol for communication between Scout Enterprise Server and eLux client offers end-to-end encryption via TLS 1.2. TLS-encrypted communication is done via port 22125. Older clients communicate with the server via port 22123 with AES-256 encryption.

For [support periods](#) and the [compatibility matrix](#), see the Whitepaper **Releases, Lifecycles and Compatibility**.

### 2.2. Keyboard shortcuts

Shortcut	Function
CTRL+ALT+↓	Switch between open applications to the left.
CTRL+ALT+↑	Switch between open applications to the right.
CTRL+ALT+←	Switch between desktops to the left
CTRL+ALT+→	Switch between desktops to the right.
CTRL+WIN	Switch from other applications to eLux: The eLux taskbar/system bar with open applications is shown.
WIN+ALT+I	Open the device information
CTRL+ALT+HOME	Unlock the <b>Configuration panel</b> (eLux RP 6) or <b>Control panel &gt; Setup</b> (eLux RP 5): Requests the local device password

---

Shortcut	Function
CTRL+ALT+END	Lock the client screen If user authentication is active, the user password is required for unlocking.
CTRL+ALT+F UNCTION KEY	Switch between the consoles, if the <b>Console switch</b> option is enabled. For further information, see <a href="#">Advanced mouse and keyboard settings</a> .  The following consoles are available: F1: eLux desktop F4: Message console
ALT+CHARACTER KEY (eLux RP 5 only)	In the eLux RP 5 control panel: Switch to the tab with underlined character ALT+S opens the <b>Setup</b> tab.

### 2.3. Touchpad gestures for mobile devices

Mobile devices often need to be operated via a touchpad and do not always have hardware mouse buttons.

By default, mouse actions are mapped to the following touchpad gestures:

Mouse action	Touchpad gesture
Click with left mouse button	Tap one finger on the touchpad (single-tap)
Right-click (right mouse button)	Tap two fingers on the touchpad (single-tap)
Middle-click (wheel button)	Tap three fingers on the touchpad (single-tap)
Move cursor	Drag your finger on the touchpad
Scroll	Slide two fingers at the same time

---

## 3. Installation

eLux can be installed directly on the flash memory of a Thin Client or on a hard disk. The installation procedure is a kind of recovery installation and can be performed in two ways:

- from USB stick: For all supported operating system versions, we provide an **eLux USB Stick** image, available for download on our portal [www.mylux.com](http://www.mylux.com) and suited to create a stick for installation.
- via PXE recovery: For large environments, PXE-capable devices can be installed through the network if the eLux software container and Scout Enterprise Management Suite are already installed.

Both procedures are described in detail in our short guide **eLux Recovery procedures**.

### 3.1. System requirements

#### Hardware requirements

	Minimum requirements	Recommended requirements
Processor	x86, 1 GHz (2 CPUs), 64-bit capable	x86, 2 GHz (4 CPUs) or more, 64-bit capable
RAM	1 GB <sup>1</sup>	4 GB or more
HDD	2 GB <sup>2</sup>	16 GB or more <sup>3</sup>
GPU (Graphics processing unit)	AMD or Intel graphics chipset	AMD or Intel chipset
Network	Ethernet or WLAN	Ethernet or WLAN
I/O ports	USB 2.0	USB 3.0 or USB 2.0, USB boot support
Resolution	1024 x 768 (XGA)	1920 x 1080 (Full HD) or higher

The recommended hardware requirements are minimum hardware requirements for the upcoming eLux major release to take advantage of the new functionalities.

#### Hardware Compatibility List

The supported hardware models (Hardware Compatibility List) for each operating system version are published on our technical portal [www.mylux.com](http://www.mylux.com) within the relevant eLux container under **Supported Hardware**.

---

<sup>1</sup>available for operating system

<sup>2</sup>for eLux RP 6 Portable USB stick: 4 GB

<sup>3</sup>8 GB HDD support current functionalities/partitions only



For [support periods](#) and the [compatibility matrix](#), see the Whitepaper **Releases, Lifecycles and Compatibility**.

### 3.2. First boot procedure

The first boot procedure for a Thin Client in initial state, after a factory reset or after a Recovery installation is processed as follows:

- a. Scan BIOS
- b. Make a DHCP server request



#### Note

To enable the client to connect to the Scout Enterprise Server, either DHCP or DNS must be configured. For further information, see [Self-registration of devices](#) in the **Scout Enterprise** guide.

---

- c. Start the eLux operating system

If either DHCP or DNS has been configured for the Scout Enterprise server, the device is automatically entered in Scout Enterprise and receives a new configuration.

If the client cannot retrieve the IP address of the Scout Enterprise Server, the [First Configuration Wizard](#) opens and leads you through the first configuration.

### 3.3. First configuration

During the first boot procedure, a Wizard is launched which helps you through the first configuration. The First Configuration Wizard is also started when you reset the device to factory state.

The First Configuration Wizard offers the following options:

- Manage the device through the Scout Enterprise Console  
The configuration data are transferred from the Scout Enterprise Server.
- Connect the device through the Scout Enterprise Cloud Gateway  
The configuration data are transferred from the Scout Enterprise Server.
- Configure eLux manually, which means locally on the client

### Going through the first configuration and connecting to Scout Enterprise

1. Select the display and keyboard language.

The following languages are supported: English, German, French<sup>1</sup> and Spanish<sup>2</sup>

2. Read and accept the license terms.
3. To manage the device via Scout Enterprise, click **Managed**.

---

<sup>1</sup>for eLux RP 6.9 and later versions

<sup>2</sup>for eLux RP 6.9 and later versions

---

## CLIENT MANAGEMENT

Select whether you want your device to be managed through the Scout Enterprise Management Suite.

### Managed

Use a Scout Enterprise Server or a Scout Enterprise Cloud Gateway to manage your device.

### Unmanaged

Operate without a management server. No central management, configuration and updates.

[< BACK](#)

[CONTINUE >](#)

4. Enter the address of the Scout Enterprise Server as FQDN or IP address.
5. Select the destination OU for the device in the Scout Enterprise Console.
6. Optionally, modify the device name enter further details.
7. Confirm with **Finish**.

*The device is registered on the Scout Enterprise Server, added to the destination OU, and is restarted. The client contacts the Scout Enterprise Server and downloads the configuration and application data of the destination OU.*

*If a profile for this device has already been created in the Scout Enterprise Console, the device is assigned the configuration of the existing profile.*

For further information on connecting via the Scout Enterprise Cloud Gateway, see [Integrating new devices](#) in the Scout Enterprise Cloud Gateway guide.

For further information on managing devices with Scout Enterprise, see the **Scout Enterprise** guide.

### 3.4. Device password

All Thin Clients managed by a Scout Enterprise Server receive the same device password. There is only one device password for all clients of the same infrastructure which is defined in the base device configuration.

The device password is used for unique assignment and authentication to the Scout Enterprise Server, so that no other Scout Enterprise Server can manage this device.

In the initial state, the device password is `elux`.

**Note**

The device password has nothing to do with a user password, which is used for example for AD user authentication.

---

For further information on passwords, see also [Passwords](#) in the **Scout Enterprise** guide.

### 3.5. Self-administration on the client

With administrator rights, you can change the configuration locally on the client or can completely disconnect from the management system. To prevent abuse, we recommend changing the device password and not releasing it.

#### Logging on with full access on the client

1. Open the control panel and the Setup tab (eLux RP 5) or the Configuration panel (eLux RP 6).
2. Press CTRL+ALT+HOME.
3. Enter the device password.

*You are provided with full access rights to the device configuration and application definitions on the client.*

---

## 4. eLux RP 5 User Interface

With eLux RP 5 and earlier versions, you can use either the classic desktop or the Modern User Interface.

eLux RP 6 clients come along with a new desktop interface that provides applications directly on the desktop and has additional features.

### 4.1. eLux Modern User Interface

– for eLux RP 5 and earlier versions –



#### Requires

In **Device configuration**<sup>1</sup> > **Desktop** > **Advanced**, the **Classic desktop** options must be cleared.



#### Note

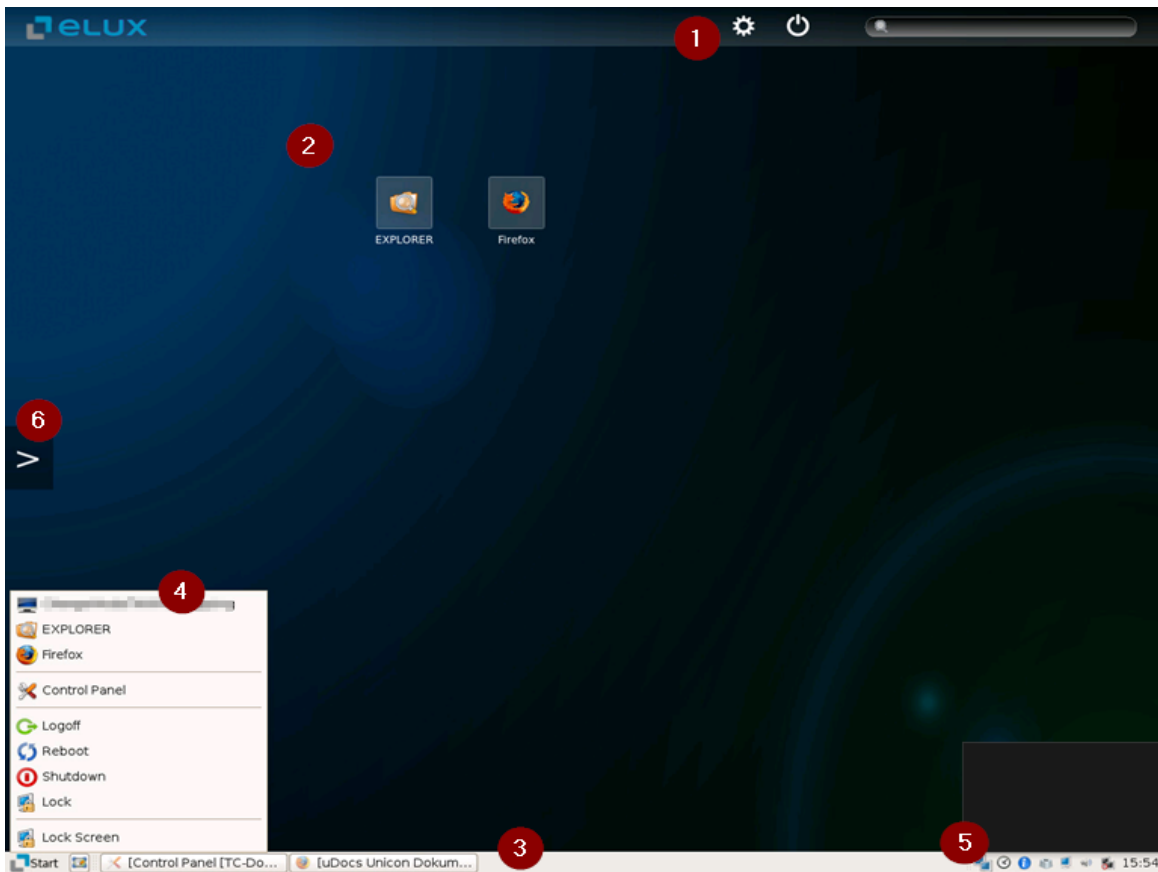
The Modern User Interface supports multiple monitors, if all monitors are operated in the same resolution.

---

The eLux Modern User Interface is the main desktop. To start an application directly from the eLux Modern User Interface, click the relevant icon.

---

<sup>1</sup>formerly Setup



- |   |  |
|---|--|
| 1 | Multifunction bar  |
| 2 | Modern User Interface desktop with application icons       |
| 3 | Taskbar  |
| 4 | Start menu   |
| 5 | Systray  |
| 6 | Icon of the Modern User Interface to show the App Selector |

#### 4.1.1. Adding application icons

The eLux App Selector allows you to place icons of any application directly onto the eLux Modern User Interface.

1. Click the > icon on the left side of the screen.

*The **eLux App Selector** is shown.*



2. Click the relevant application folder.

*The available applications are displayed. Those applications displayed as a icon on the desktop are shown with a check mark.*

3. Click an application without a check mark to show it on the desktop.

*The selected application is displayed with a green check mark and is shown as icon on the eLux Modern User Interface.*

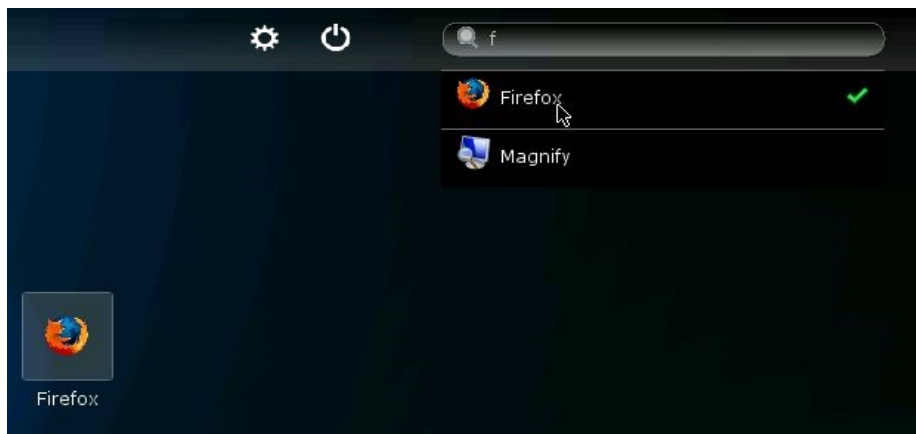


#### Note

If you click an application that already has a check mark, the application is started.

4. Click the < icon to hide the **eLux App Selector**.

Alternatively, to add an application, use the **eLux App Search**.



#### Note

To permanently show application icons on the desktop, use the configuration of the application and select the **Desktop icon** option.

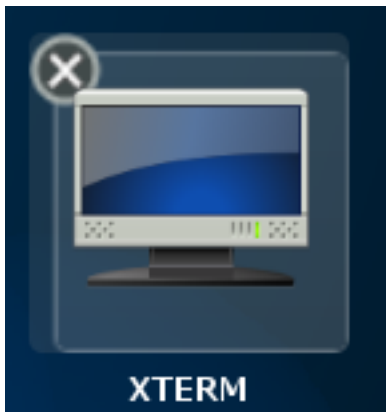
### 4.1.2. Hiding application icons

**Note**

You can only hide those applications that you have added by using the **eLux App Selector**.

1. Place the mouse cursor exactly on the upper left corner of the application icon that you want to hide.  
*An **x** is shown.*
2. Click the **X** to hide that icon.

*The application icon is removed from the desktop. The related application, however, remains in the eLux control panel.*



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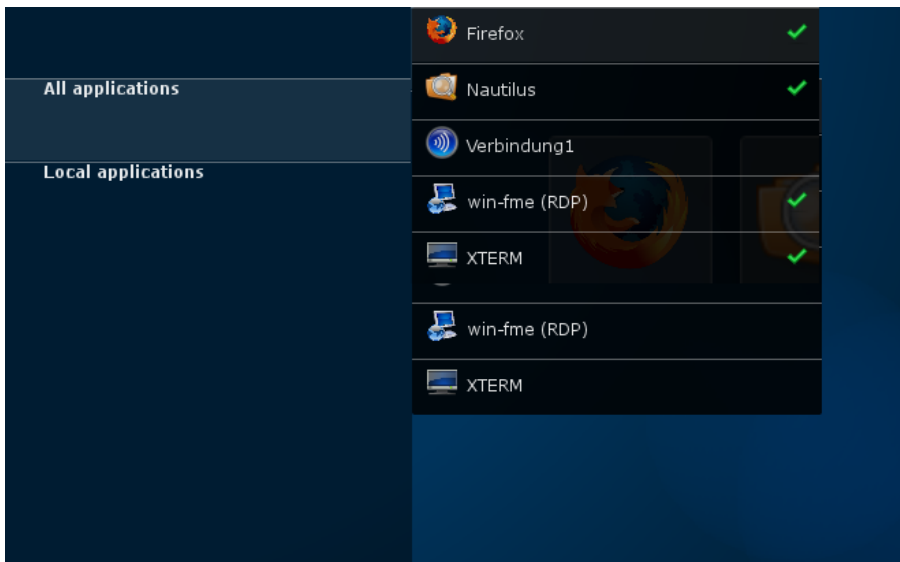
### 4.1.3. Starting applications

- ▶ Click an application icon on the desktop.

or

- ▶ Click an application in the App Selector.

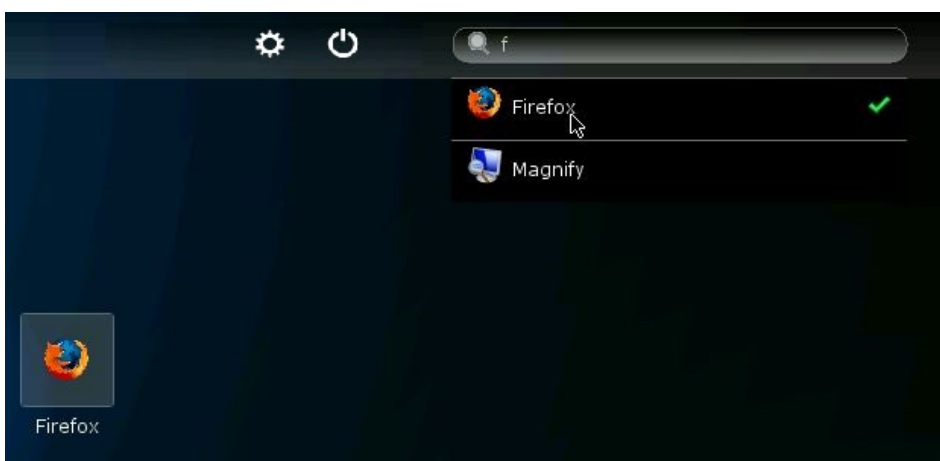
*If the green check mark is shown with the application, the application is started. If the green check mark is not shown, the first click on the application adds the application icon to the desktop and the green check mark is set.*



or

- ▶ Click an application in the search results.

*If the green check mark is shown with the application, the application is started. If the green check mark is not shown, the first click on the application adds the application icon to the desktop and the green check mark is set.*





#### 4.1.4. Multifunction bar

The multifunction bar on the upper right of the screen offers the following features:



- |   |   |
|---|---|
| 1 | Opens the control panel   |
| 2 | Provides the options <b>Log Off</b> , <b>Reboot</b> , <b>Shutdown</b> and <b>Lock</b> (for eLux RP version 5.2 and later) |
| 3 | Enables searching for particular applications   |

#### 4.2. Task bar, start menu and systray

The task bar contains the following elements:

- Start menu
- Button to hide/show open applications (tasks) on the desktop

eLux RP 5 and  
eLux RT

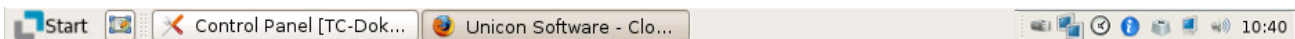


eLux RP 6



- Active applications (tasks)
- Systray

The following figure shows the task bar of eLux RP 5:



You can configure how to display the task bar and systray in **Device configuration**<sup>1</sup> > **Desktop** > **Advanced**.

The systray can show the following icons which provide access to configuration:

Icon	Description
Connected USB mass storage devices	Shows connected USB devices and their properties Removing USB devices safely

<sup>1</sup>formerly Setup

Icon	Description
Network profile	Shows the network connections in use with status and options to Disconnect/Connect  Definition in <b>Device configuration &gt; Network</b>
Time settings	as in <b>Device configuration &gt; Desktop &gt; Date &amp; Time</b>
Device information	Shows asset details as in <b>Device configuration &gt; General</b>  You can use the text boxes <b>Info1</b> , <b>Info2</b> , <b>Info3</b> for additional information (and transfer them to the console if the <b>Client info</b> option in the software package <code>Desktop Tools</code> is active).
Mouse/Keyboard	as in <b>Device configuration &gt; Mouse/Keyboard</b>  Modifications become active immediately.
Screen settings	Connected screens are identified automatically. Any modifications are applied immediately.  The <b>Info</b> tab shows all available screen resolutions supported by the monitor and further information.  Use the <b>Resolution</b> tab to configure screen resolution and rotation.  To disconnect one of the monitors, clear the <b>On</b> option.  Use the <b>Layout</b> tab to configure multiple monitors and determine the the primary monitor (the one that shows the task bar).
Volume	Shows the active input and output devices  To control the sound level for input and output, use the slider bars as in <b>Device configuration &gt; Multimedia</b> .
Time	Shows current time and current date

### 4.3. Removing USB mass storage devices safely



#### Important

To ensure that all data are saved on the USB device, click **Remove safely** before you remove any USB mass storage device.

1. On the systray, right-click the **USB device** icon.<sup>1</sup>
2. Select **Remove safely**.



#### Note

In the Scout Enterprise Console, you can define a key combination that users can press to remove all connected USB mass storage devices safely. For further information, see [Safe removal of USB devices](#).

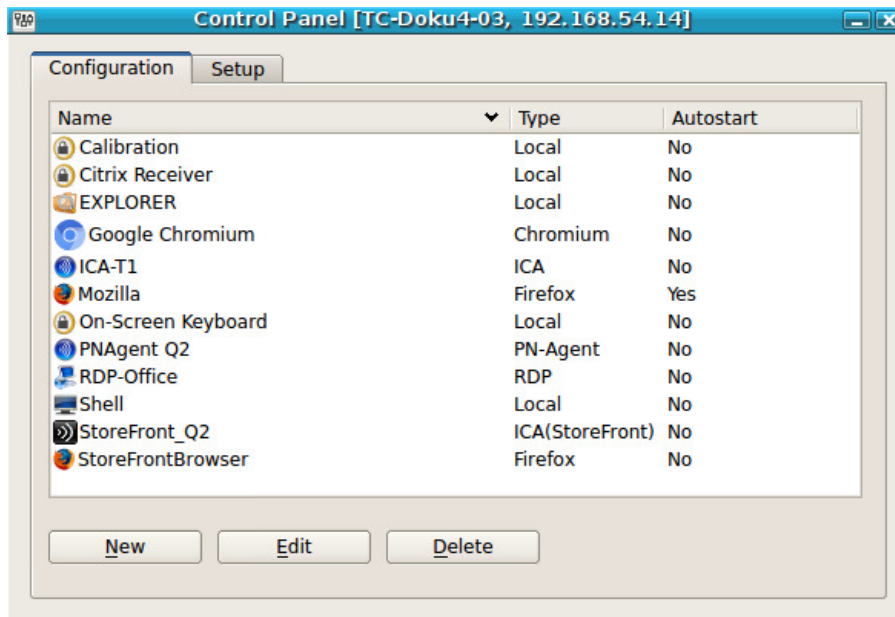
### 4.4. Control panel

The control panel provides the defined applications with their configuration (**Configuration** tab) and the device configuration (**Setup** tab).<sup>2</sup>

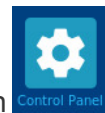
Depending on the defined user rights, the tabs or sub-tabs can be disabled.

<sup>1</sup>For eLux RP 6.3 and later versions, the USB device icon is shown as live information.

<sup>2</sup>For eLux RP 5.x clients, the **Applications** tab is additionally provided that you can use to start applications from.



## Operation



- ▶ To open the control panel, use the Start menu (eLux RP 5) or the desktop icon (eLux RP 6).

The eLux control panel is designed for mouse operation. However, you can operate the desktop by using key combinations such as (**ALT** + *underlined letter*). For example, on the **Setup** tab, press ALT+ S to jump to the **Screen** tab.

- ▶ To close the control panel, press ESC.

## Application definition

With the appropriate user rights, you can define, edit or delete applications on the **Configuration** tab.<sup>1</sup> If the device is managed by Scout Enterprise, the applications are defined in the Scout Enterprise Console. In addition to the application definition, the corresponding software packages must be installed in order to run an application.

## Device configuration

The **Setup** tab contains the device configuration. In the initial state, some standard configuration is active. If the device is managed by Scout Enterprise, the device configuration is verified on each restart and might be updated to the status of the assigned OU.

<sup>1</sup>for eLux RP 6.2: **Application** tab

The standard desktop language is English (US). For any other languages except German the desktop elements are shown in English. It is however important to select the relevant language in the desktop configuration to ensure that the local applications can be run correctly.

---

## 5. eLux RP 6 user interface



### Note

To manage eLux RP 6.2 clients centrally, Scout Enterprise Management Suite 15.1 or later is required. For further information, see [Compatibility client platform and Scout Enterprise Management Suite](#) in our **Releases** Whitepaper.

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The eLux Modern User Interface has been replaced by a new desktop interface.

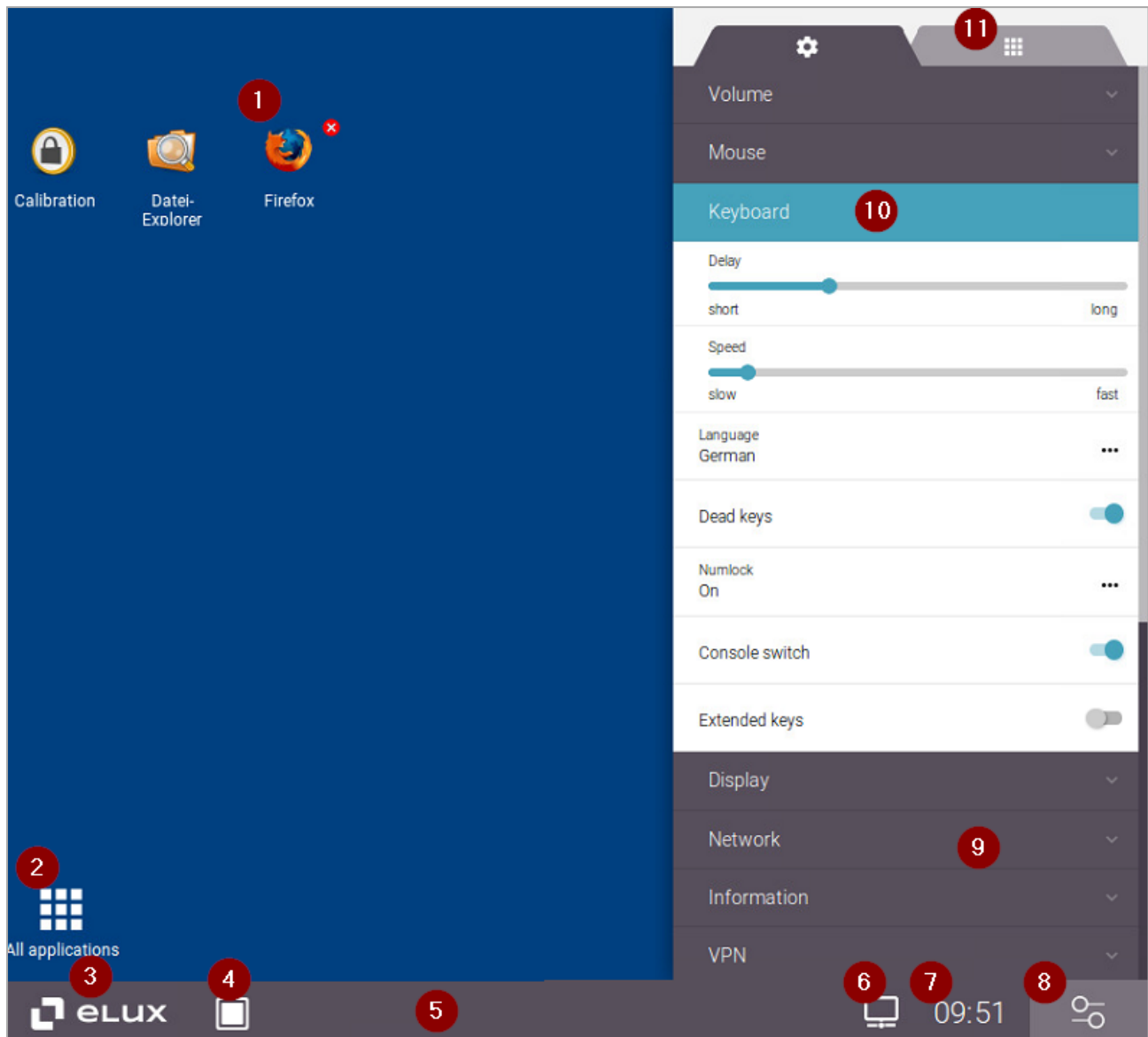
All applications are started via the application icons on the desktop. The eLux Control Panel with the **Applications** tab and the Start menu listing the applications are no longer available.

The user can choose between a personalized desktop view and the **All Applications** view.

The eLux RP 6 user interface provides the following elements:<sup>1</sup>

---

<sup>1</sup>figure shows eLux RP 6.4



### Legend to numbers

1 Running application, indicated by a red close icon (x)

2 Switch to **All applications** view

3 **Command panel**

Provides commands such as **Shut down** and **Log off**

4 Show desktop

5 **System bar**

Includes the **Command panel**, **Task panel**, **Live-Information**, time and a button for opening the **Configuration panel**

For information on eLux RP 6.2 and 6.3, see [Specifics for the versions eLux RP 6.2 and 6.3](#).

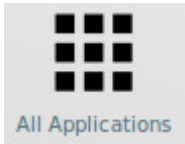
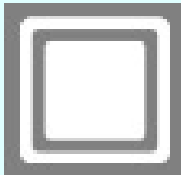
---

### Legend to numbers

- |    |  |
|----|--|
| 6  | <b>Live-Information:</b> In the figure, the current LAN connection is displayed.   |
| 7  | Time and date  |
| 8  | Show <b>Configuration panel</b>  |
| 9  | Opened <b>Configuration panel</b><br>Contains the device configuration and application definitions (replaces the eLux RP 5 control panel tabs) |
| 10 | Opened <b>Configuration dialog</b> in the <b>Configuration panel</b>   |
| 11 | Switch to <b>Applications</b> tab <sup>1</sup>   |
- 

## 5.1. Desktop views

The desktop offers two views. To switch between views, click the desktop icon in the lower left section of the screen:

View	Click	Description
All Applications		Shows all defined applications as application icons on the desktop
Desktop		Shows only few predefined applications and user-selected application icons on the desktop (Personal Desktop)

As soon as the user has set up a personal desktop and defined applications for it, the **Desktop** view is displayed by default after startup. Otherwise, the **All Applications** view is displayed.<sup>2</sup>

### Specifics for Citrix StoreFront

When you use Citrix StoreFront, each store is also displayed as a separate view:

After the user has successfully connected to a store, a separate view is created with the applications provided by the Citrix backend in that store. The StoreFront applications are additionally shown in the **All Applications** view. The separate Store view is closed when the user disconnects from the store. The Citrix icon changes the appearance depending on the connection status.

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<sup>1</sup>for eLux RP 6.3 and later versions

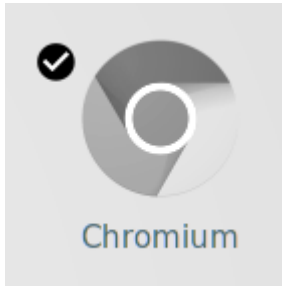
<sup>2</sup>for eLux RP 6.4 and later versions



## 5.2. Setting up a personal desktop

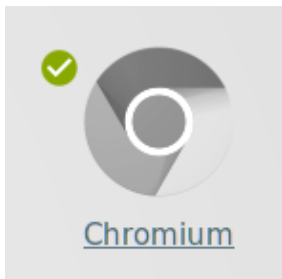
### Selecting applications for a personal desktop

1. In the **All Applications** view, right-click an application icon.



*At the top left of the application icon, a black symbol with a check mark is displayed.*

2. Click the black check mark symbol.



*The check mark symbol is shown in green and the application name is underlined. From now on, the relevant application is displayed additionally in the **Desktop** view.*

### Deleting applications from a personal desktop

1. In the **Desktop** view, right-click the relevant application icon.

*At the top left of the application icon, a green symbol with a check mark is displayed.*

2. Click the green check mark symbol.

*The application icon is hidden and only shown in the **All Applications** view.*



#### Note

Application icons that have been configured via the Scout Enterprise Console cannot be deleted from the desktop.

---

## 5.3. System bar

– for eLux RP 6.2 and later versions –

The **System bar** provides various functions and can be configured.



### Legend to numbers

1 Show **Command panel** (see below)

2 Show the desktop

Minimizes all open windows and hides the **Configuration panel** if open

3 **Task panel** with open application

4 Quick Config icons:<sup>1</sup>

Quick access to Configuration Panel dialogs

The live information icons for USB and network also open the corresponding Configuration panel dialog<sup>2</sup>

5 Live information,<sup>3</sup> for eLux RP 6.8 and later versions via right-click

- Connected USB devices
- Current network connection
- Battery level for mobile clients
- Locally connected printers<sup>4</sup>

Information on active third-party software is shown to the right of the live information via an ellipse (3 dots):

- ▶ Click the ellipse to show the icons of active third-party software (Citrix, Zoom, Cisco Anyconnect).

6 Time and date

When you move the mouse pointer over the time, the date is shown.<sup>5</sup>

7 Show the **Configuration panel**<sup>6</sup>

---

<sup>1</sup>for eLux RP 6.8 and later versions

<sup>2</sup>for eLux RP 6.8 and later versions

<sup>3</sup>for eLux RP 6.3 and later versions

<sup>4</sup>for eLux RP 6.5 and later versions

<sup>5</sup>for eLux RP 6.3 and later versions

<sup>6</sup>for eLux RP 6.4 and later versions

### 5.3.1. Command panel

– for eLux RP 6.2 and later versions –

eLux commands such as **Shut down** and **Restart** are located on the system bar, in the Command panel.

Which commands are displayed depends on whether the devices are managed by Scout Enterprise, whether user authentication is configured, and which user rights the administrator has defined.

#### Available eLux commands

Option	Description
Sleep <sup>1</sup>	The device is set into sleep mode (Suspend to RAM).
Lock (with AD authentication)	The screen is turned off by the system and can only be unlocked through the user by entering their password.
Log off (with AD authentication)	The logged-on user is logged off and the logon dialog is displayed.
Shut down	The device is shut down and turned off.
Restart	The device is shut down and restarted immediately.
Update (managed devices)	Starting a firmware update  The system checks if a firmware update is required. If the image definition file on the server is newer than the one on the client, the user can start the update process.
Configuration (managed devices)	Synchronizing the device configuration  The current device configuration and the current application definitions for this device or OU are reloaded from the Scout Enterprise Server and the device is restarted.  Local configuration changes are overridden unless they are protected.
Factory reset (managed devices)	Resetting the client to initial state (factory reset)  The device configuration of the client is set back to the factory status. Local application definitions and locally stored configuration data are deleted. The firmware image with all software packages is retained.

#### Showing the Command panel (from eLux RP 6.8)

- ▶ On the left of the system bar, click the eLux icon.

<sup>1</sup>ab eLux RP 6.4

---

## Showing the Command panel (up to eLux RP 6.7)

- ▶ To show the **Command panel**, click the eLux button:



- ▶ To show the extended **Command panel**, click the eLux button while pressing the SHIFT key:



(only for clients managed through Scout Enterprise)

For further information, see [eLux commands](#).



### Note

Before a command is executed, the user receives a confirmation message (except for the **Lock** command).

---

### 5.3.2. Live information

– for eLux RP 6.3 and later versions –

The live information icons<sup>1</sup> on the system bar show current status information, for example about the network connection and connected USB devices. From eLux RP 6.8, the live information icons additionally offer quick access to the corresponding Configuration dialog (**Quick Config**).

Whether the live information icons are displayed and allowed for **Quick Config** depends on the device configuration of the Scout Enterprise administrator (Advanced desktop settings).<sup>2</sup>

#### Showing live information details

- ▶ Right-click<sup>3</sup> the relevant live information icon.

#### Jumping to Configuration dialog / Quick Config

- ▶ Click the relevant live information icon.<sup>4</sup>

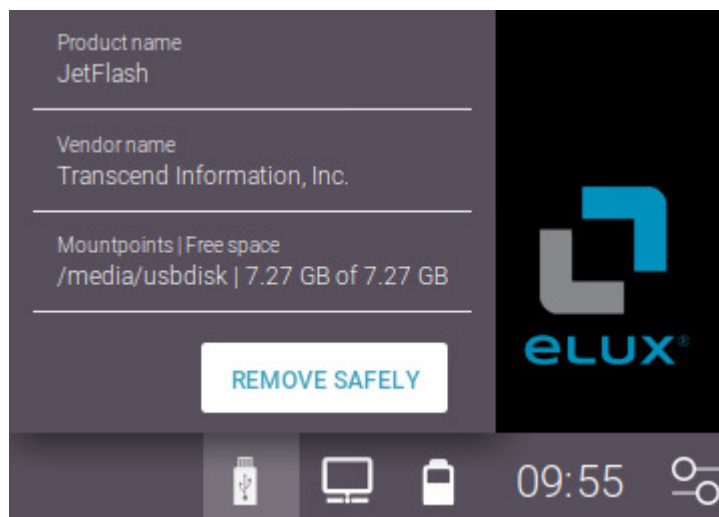
Following, some types of live information are described.

#### Connected USB devices



#### Note

Clients managed by Scout Enterprise must be configured to allow local use of USB devices via mountpoints. (**Device configuration > Hardware**). Otherwise, connected USB devices will not be displayed.



<sup>1</sup>for eLux RP 5: systray icons

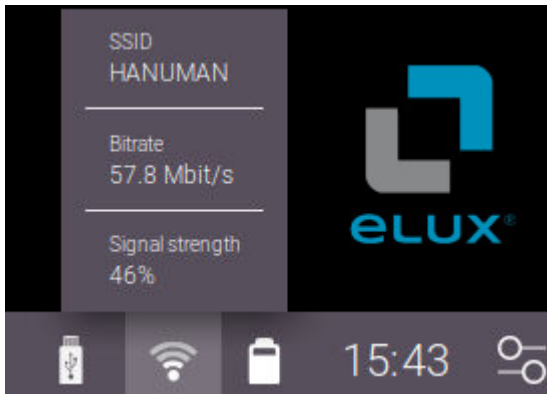
<sup>2</sup>Display from Scout Enterprise 15.7 and eLux RP 6.7, Quick config from 15.8 and 6.8

<sup>3</sup>for eLux RP 6.8 and later versions, for earlier versions left-click

<sup>4</sup>for eLux RP 6.8 and later versions

- 
- ▶ Before you remove a USB device, click **Remove safely**.
  - ▶ To view the current free space at runtime, click the USB icon again.<sup>1</sup>

### Current network connection



- Profile name of LAN, VPN, WWAN<sup>2</sup> or SSID of the WLAN network
- Bitrate
- Signal strength (only WLAN and WWAN)

The network icon in the figure above shows a WLAN including approximate signal strength.

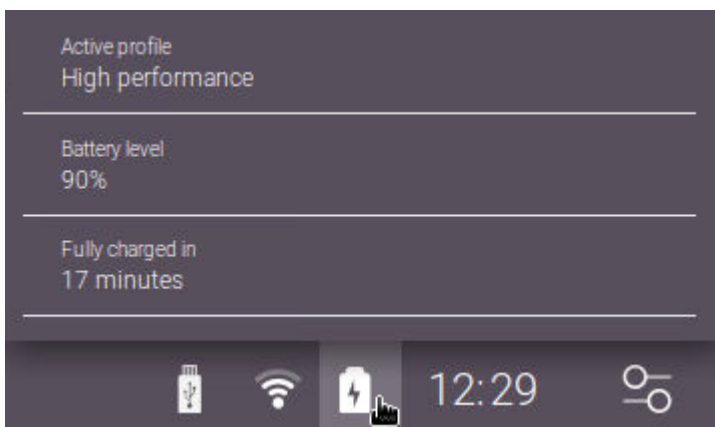


#### Note

If the network connection is interrupted, the network icon is displayed with an exclamation mark.<sup>3</sup>

---

### Battery level for mobile clients



---

<sup>1</sup>for eLux RP 6.7 and later versions

<sup>2</sup>for eLux RP 6.5 and later versions

<sup>3</sup>for eLux RP 6.5 and later versions

Information	Description
Active profile	Shows whether the <code>High performance</code> or the <code>Power saver (Eco)</code> profile is active. If <code>Auto</code> is configured, the active profile depends on whether the device is connected to the power supply.
Battery level	Shows the current battery status in percent
Remaining time on battery (on battery power)	Shows the remaining minutes on battery power if the device is not connected to the power supply
Fully charged in (plugged in)	Shows the time in minutes until the battery is fully charged when the device is connected to the power supply.

The battery icon in the figure above indicates that the device is connected to the power supply. Without power supply, the icon shows the approximate battery status.

### Locally connected printers

Also for local printers, a live information icon is shown.<sup>1</sup>

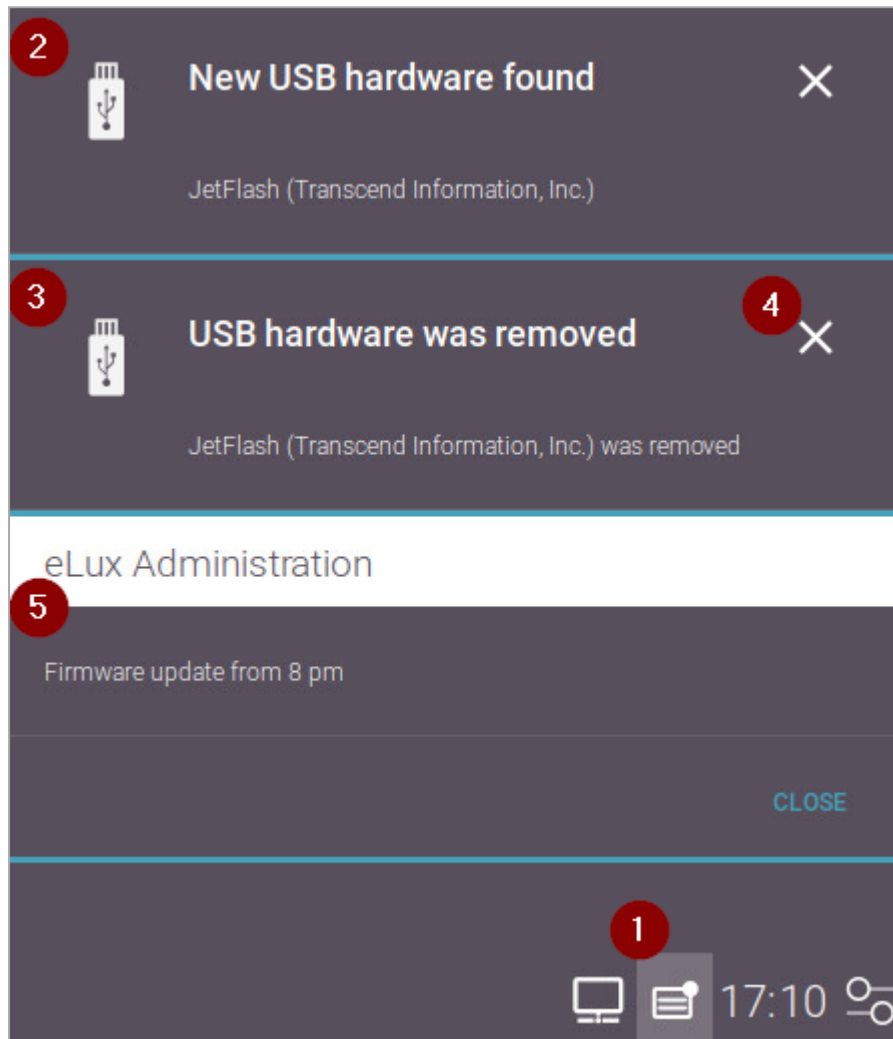
---

<sup>1</sup>for eLux RP 6.5 and later versions

### 5.3.3. Notifications

System notifications inform the user about a changed network status or when peripheral devices are connected or removed, for example. Notifications are shown in a small message window at the bottom right of the screen and disappear after a few seconds.

To make it easier to read several messages, especially if they arrive at short intervals, an additional icon allows you to show all notifications in a separate panel.<sup>1</sup> This panel displays the notifications one under the other and remains until you close it with a click.



#### Legend to numbers


- 1 To open the notification panel, click the temporarily displayed icon.
- 2 First notification
- 3 Second notification
- 4 To close a notification, click the Close field. The panel with further notifications remains open.
- 5 In addition to system notifications, the panel displays messages that the administrator sends to the users via the Scout Enterprise command **Send message**.

<sup>1</sup>for eLux RP 6.7 and later versions



### 5.3.4. Specifics for the versions eLux RP 6.2 and 6.3

For eLux RP 6.2 and eLux RP 6.3, **Configuration shortcuts** can be defined to be shown on the system bar. Via **Configuration shortcuts** the relevant **Configuration dialogs** can be directly accessed.

- Click the  button to show the defined **Configuration shortcuts**:



#### Legend to numbers

- Click a **Configuration shortcut** to open the **Configuration panel** and the relevant **Configuration dialog**.  
  
The **Configuration shortcuts** you want to show are configured locally in the **Configuration panel > Desktop > System bar** or by the administrator in the Scout Enterprise Console.
  - Hide Configuration shortcuts**  
Hides the **Configuration shortcuts** and shows the time and **Task panel**
- The time is only shown when the **Configuration shortcuts** are hidden. When you click the time, the **Configuration panel** opens with the **Date and time** dialog.
  - The Task panel is only shown when the **Configuration shortcuts** are hidden.

---

## 5.4. Configuration panel

– for eLux RP 6.2 and later versions –

The Configuration panel can be shown in the right section of the screen. It is used for

- Device configuration
- Application definitions<sup>1</sup>

### Showing the Configuration panel



#### Requires

The option **Show Configuration panel** in **Desktop > System bar** is enabled.<sup>2</sup>

---



In the System bar, click the time or the  button.

*The Configuration panel with the Configuration dialogs is shown. The **Desktop** dialog or the recently used Configuration dialog is opened. Click the time to open the **Date and time** dialog together with the Config panel.*

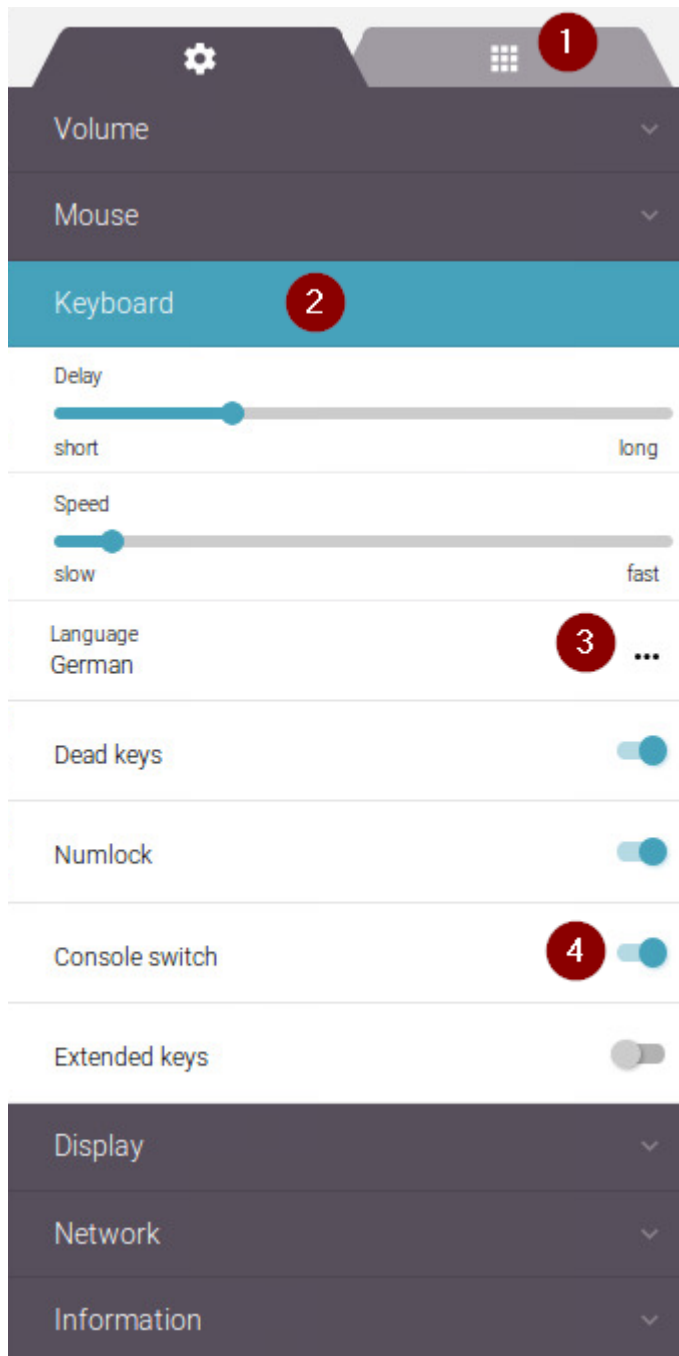
The dialogs are displayed alphabetically<sup>3</sup> or sorted by content. Sorting can be defined in the Scout Enterprise Console.

---

<sup>1</sup>for eLux RP 6.3 and later versions

<sup>2</sup>for eLux RP 6.4 and later versions

<sup>3</sup>for eLux RP 6.9 and later versions




### Legend to numbers

- 1 Switch to **Applications** tab<sup>1</sup>
- 2 To open a dialog, click the dialog title.  
You can open only one dialog at a time.
- 3 Opens a drop-down list or context menu
- 4 Enables or disables an option

## Using the configuration and application dialogs

- To view all dialog titles or all dialog options, it might be necessary to scroll down the frame.
- Many options are applied directly after you have set them. Some dialogs require you to click buttons such as **Apply** or **Cancel** before they are closed.
- When you enable an option, further entries might be required.

<sup>1</sup>for eLux RP 6.3 and later versions

- 
- Text fields are characterized by a line under the field.
  - To pick a file from the file system, click .
  - Mandatory fields are characterized by an asterisk\* on the right. If you have missed to fill in a mandatory field, it is displayed in red.
- 



### Requires

In the Scout Enterprise Console, the administrator can specify that the configuration dialogs are displayed in alphabetical order.

---

For further information about the content of the dialogs, see

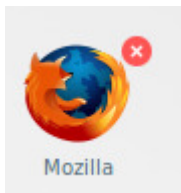
[Device configuration for eLux RP 6 and](#)

[Defining applications \(eLux RP 6\)](#)

## 5.5. Applications in the eLux RP 6 interface

### Starting applications

- ▶ In one of the desktop views, click an application icon.



*At the top right of the application icon, a red close icon (x) is shown.*

### Closing applications

- ▶ On the desktop, click the red close icon at the top right of the application icon.  
or  
Open the context menu of the application on the taskbar, and then click **Close**.

### Searching applications

1. Press STRG+F or click into the search field or press STRG+F
2. Enter the first characters of the application name.
3. Press RETURN or click the magnifier icon.

*The desktop view is switched to **All Applications** and displays the matching applications. As long as the search filter is active, the magnifier icon flashes.*

- ▶ To deactivate the search filter, switch to the **Desktop** view.


## Sorting applications

- ▶ In the **All Applications** view, click the **AZ** button once or repeatedly.

*The applications are sorted alphabetically (ascending, descending, unsorted/free).*

## Free placing of applications<sup>1</sup>

- ▶ In the **Desktop** view, move an application icon to any position by using a drag and-drop operation.

*The position of the application icons you have arranged by your own is saved within the free positioning order .*


## Switching between sessions/applications and the eLux Desktop interface

- ▶ Press the key combination STRG+ALT+D

## Enabling screen lock

- ▶ Press the key combination STRG+ALT+L

## Showing the desktop and minimizing application windows

- ▶ On the taskbar, click the  icon.




### Note

The eLux RP 6.2 control panel provides the **Applications** tab to help you define applications. For eLux RP 6.3 and later versions, applications are defined in the configuration panel. For further information, see

[Defining applications \(eLux RP 5\)](#).and  
[Defining applications \(eLux RP 6\)](#)

Note that for centrally managed clients, the administrator can configure in the Scout

Enterprise Console whether the  icon for starting the control panel is displayed or not.

<sup>1</sup>from eLux RP 6.7

<sup>2</sup>for Scout Enterprise 15.2 and later versions

---

## 6. Device configuration for eLux RP 5



### Important

If the client is managed by Scout Enterprise, configuration is normally done centrally in the Scout Enterprise Console. With inheritance enabled, local configuration changes on the client will be overwritten as soon as the client connects to Scout Enterprise. For further information, see [Device configuration](#) in the **Scout Enterprise** guide

---

For **eLux RP 6.2** and later versions, the local device configuration is located in the **Configuration panel** that can be shown on the right of the screen.

For eLux clients running eLux RP 6.1 and earlier versions, the local configuration of the client is done in the control panel on the **Setup** tab. The **Setup** tab is grouped into sub-tabs that are described in the following topics.



### Note

Most changes require a client restart. eLux will inform you after you have confirmed your changes with **Apply**.

---

### 6.1. General tab

The **General** tab<sup>1</sup> provides the following information:

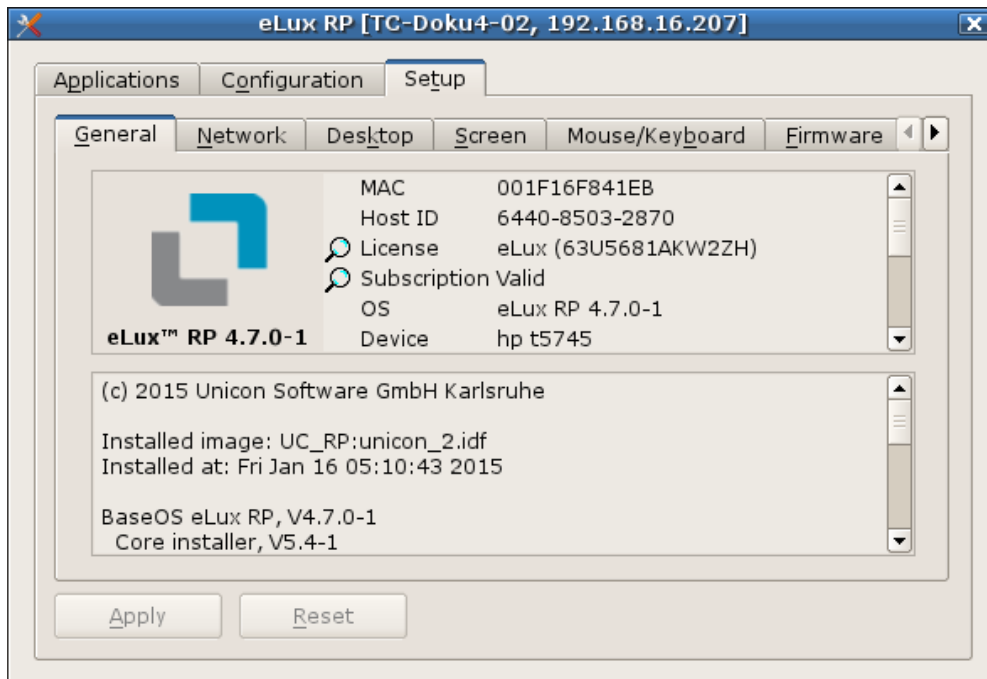
- MAC address
- host ID of the terminal
- eLux license<sup>2</sup> and Subscription
- eLux version
- information concerning the hardware in use for example CPU-clock, size of RAM, serial number and BIOS version.

The list below shows the installed software packages, including version numbers and the installed IDF.

---

<sup>1</sup>for eLux RP 6.2 and later versions **Configuration panel > Information**

<sup>2</sup>for eLux RP 5 and earlier versions



### 6.1.1. License information

The eLux license key<sup>1</sup> and the current status of the Subscription are shown on the **General** tab. Double-click the magnifier icon to view more details.

#### Entering a new license<sup>2</sup>

1. In **Setup > General**, double-click the term **License**.
2. In the **eLux license information** dialog, in the **License key** field, enter the new License Base Key.
3. Confirm with **OK** and **Apply**.

<sup>1</sup>for eLux RP 5 and earlier versions


<sup>2</sup>for eLux RP 5 and earlier versions

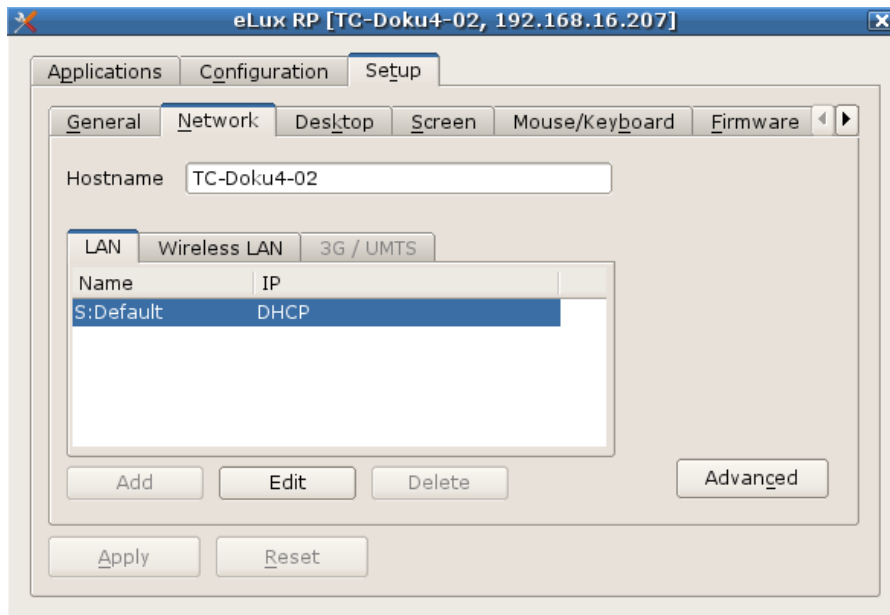
---

## 6.2. Network tab

Depending on the hardware installed, the **Network** tab shows some sub tabs:

- LAN
- Wireless LAN

The systray icon  shows further information concerning the existing network connections.



### 6.2.1. Defining a LAN profile

1. For the relevant device or OU, open **Device configuration<sup>1</sup> > Network**.
2. Select the **LAN** tab, and then, for the **Default** connection, click **Edit**.
3. In the **Edit network profile** dialog, under **Ethernet**, edit the following fields:

Option	Description
Obtain an IP address automatically	The IP address is obtained automatically via DHCP. Define a timeout period in seconds. Later on, under <b>Advanced</b> , specify the behavior for failing DHCP requests.
Use following IP address	Alternatively, specify a fixed IP address and the corresponding options.

---

<sup>1</sup>formerly Setup



**Note**

If you do not use DHCP options for Scout Enterprise, we recommend that you select the option **Advanced > Ignore Scout Enterprise server DHCP options**.

4. To modify the network speed and Maximum Transmission Unit (MTU), edit the **Medium** tab.
5. Under **Advanced**, edit the following fields:

DHCP settings	Specify the behavior for failing DHCP requests.
Proxy <sup>1</sup>	<p>Define a system-wide proxy server for this network profile, see <a href="#">Proxy configuration</a>.</p> <p>The proxy setting you define here is used by the <code>System proxy</code> option in the browser application definition.</p>

6. Under **IEEE 802.1X authentication**, edit the following fields:<sup>2</sup>

Activate	Enable IEEE 802.1X authentication in general.
Allow activation without successful authentication (only Ethernet) <sup>3</sup>	<p>Specify whether IEEE 802.1X activation continues even if a timeout or authentication error occurs (for Ethernet connections only).</p> <p>If the option is not active (default), activation can only continue after successful authentication.</p>
Number of auto-connect retries <sup>4</sup>	Number of connection retries before aborting
Number of authentication retries <sup>5</sup>	Number of authentication retries for a successful connection before the authentication is aborted
Timeout authentication	Time period in seconds before an authentication try is aborted

**Note**

The WPA encryption is performed using the WPA supplicant and the configuration file `wpa.conf`. For further information, see [WPA support](#).

7. Confirm with **OK** and **Apply**.

<sup>1</sup>for Scout Enterprise 15.5 and later versions

<sup>2</sup>Up to Scout Enterprise Management Suite 15.8, use the **Advanced** tab to enable IEEE 802.1X

<sup>3</sup>for Scout Enterprise Management Suite 15.9 and later versions

<sup>4</sup>for Scout Enterprise Management Suite 15.9 and later versions

<sup>5</sup>for Scout Enterprise Management Suite 15.9 and later versions

---

Using the **Internet connection test** option, you can check anytime whether web addresses are accessible via the Internet.<sup>1</sup>

### 6.2.2. Defining a WLAN profile

The following configuration options are provided:

- A. In the Scout Enterprise Console, in the device configuration, a WLAN profile can be created for a device, OU or all devices, see below.  
EAP authentication is not supported for this method.
- B. Users can create individual WLAN profiles locally on the client. For eLux RP 5.6 and later versions, local profiles and profiles created in Scout Enterprise can be merged automatically to make them connect depending on the location.
- C. Corporate WLAN: A WLAN configuration can be distributed throughout the entire company network by using a WPA configuration file with and without 802.1X. For eLux RP 5 devices, this method requires configuring a dummy WLAN profile in the device configuration that can be hidden from the users.<sup>2</sup>  
Users can additionally create individual WLAN profiles locally on the client.<sup>3</sup> Configured WLAN networks can connect automatically depending on location and priority. For further information, see [WPA support](#) and (for eLux RP 5) [Corporate WLAN](#).

#### Creating a WLAN profile in the Scout Enterprise device configuration

1. In the Scout Enterprise Console, for the relevant OU, open **Device configuration**<sup>4</sup> > **Network**.
2. On the **Wireless LAN** tab, click **Add**.
3. In the **Edit network profile** dialog, select **Connect automatically**.



#### Note

If the **Connect automatically** option is not selected, there is no automatic use of any WLAN connection. In this case, the user must start the WLAN manually from the systray/live information on the system bar.

---

4. To check Internet connectivity each time a connection is set up, the **Internet connection test** option is available.<sup>5</sup> For further information, see [Options for all network profiles](#).

---

<sup>1</sup>for Scout Enterprise Management Suite 15.9 and later versions

<sup>2</sup>for eLux RP 5.6 and later versions

<sup>3</sup>for eLux RP 5.6 and later versions

<sup>4</sup>formerly Setup

<sup>5</sup>from Scout Enterprise Management Suite 15.9

## 5. Edit the following options:

Option	Description
Medium / SSID	Service Set Identifier Name of the WLAN
Medium / Timeout	Time period in seconds waiting to connect
Medium / Channel	Selected automatically by default
Medium / Encryption	Authentication type <ul style="list-style-type: none"> <li><input checked="" type="radio"/> None</li> <li><input checked="" type="radio"/> WPA with pre-shared key (PSK)</li> <li><input checked="" type="radio"/> WPA2 with pre-shared key (PSK)</li> </ul> <p>To authenticate via EAP (Extensible Authentication Protocol), use a WPA configuration file. For further information, see <a href="#">WPA support</a>.</p>
IP / Obtain an IP address automatically	The IP address is obtained automatically via DHCP. Define a timeout value in seconds.
IP / Use following IP address	Alternatively, specify a fixed IP address and the corresponding options.
Advanced / DHCP settings	Specify the behavior for failing DHCP requests.

**Note**

If you do not use DHCP options for Scout Enterprise, we recommend that you select the option **Ignore Scout Enterprise server DHCP options**.

Advanced / Proxy <sup>1</sup>	Define a system-wide proxy server for this network profile, see <a href="#">Proxy configuration</a> .  The proxy setting you define here is used by the <code>System proxy</code> option in the browser application definition.
-------------------------------	---

6. Confirm with **OK**.**Note**

To create an individual WLAN profile locally on the client (B), the same steps can be applied in the eLux device configuration, provided you have the necessary user rights.

<sup>1</sup>for Scout Enterprise 15.5 and later versions



### Note

To check the network activities on the client, use the **Diagnostics** feature (Enhanced log level) and the `systemd-journal.log` file.<sup>1</sup>

---

## Displaying WLAN profile editor on the client

– for eLux RP 5 only; under eLux RP 6, WLAN networks can be viewed and configured directly in the Configuration panel –

Available WLAN networks can be viewed on the client using the network icon of the systray. In addition, the WLAN profile editor can be shown in a popup window when an unknown WLAN network is detected:

- ▶ Use the **Advanced file entries** feature of the Scout Enterprise Console:

File	/setup/terminal.ini
Section	Layout
Entry	NotifyNewWLAN
Value	true

For further information, see [Advanced file entries](#).

## 6.2.3. Adding a host name using DHCP

You can use a DHCP request to transfer the local host name to the DHCP server. The host name will then be visible on the DHCP server.

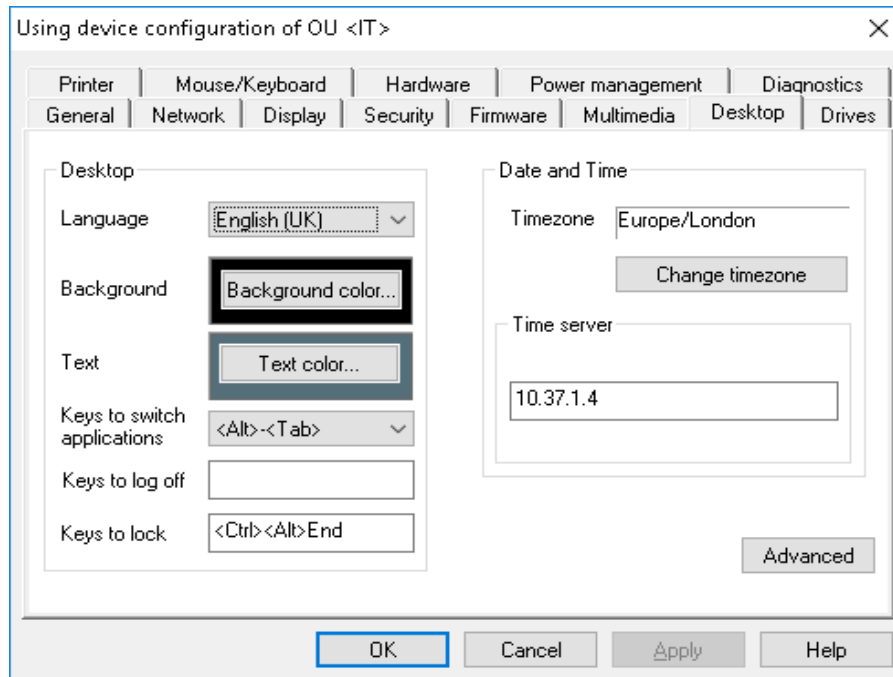
- ▶ In **Setup > Network**, in the field **Hostname**, enter the host name of the particular Thin Client and click **Apply**.

---

<sup>1</sup>for eLux RP 6.4 and later versions

## 6.3. Desktop

On the **Desktop** tab, you can modify the eLux desktop layout.



### 6.3.1. Configuring language and colors

1. For the relevant device or OU, open **Device configuration**<sup>1</sup> > **Desktop**.
2. In the **Language** list, click the preferred desktop and application language.

The following languages are supported: English, German, French<sup>2</sup> and Spanish<sup>3</sup>



#### Note

The language setting refers to the display of desktop elements. It does not affect text services and input.

For a smooth performance, ensure that the applications support the selected language.

For eLux RP 5: If you select **German**, the eLux user interface elements such as start menu and control panel are displayed in German. If you select any other language, all elements are displayed in English.

3. Click the **Background color** button to select a desktop background color.

For eLux RP 5: The selected background color is only enabled, if the option **Classic Desktop** is selected, see [Advanced desktop configuration](#).

<sup>1</sup>formerly Setup

<sup>2</sup>for eLux RP 6.9 and later versions

<sup>3</sup>for eLux RP 6.9 and later versions

- 
4. Click the **Text color** button to select a text color for the application icons.<sup>1</sup> Make sure there is sufficient contrast to the background color.

For further configuration options of the eLux RP 6 desktop, see [eLux RP 6 User Interface](#).

### 6.3.2. Advanced desktop settings

In **Desktop > Advanced** the following options are available:

Option	x
Interactive Desktop <sup>2</sup>	Icons displayed on the desktop
Desktop writable <sup>3</sup>	Users are allowed to place icons on the desktop.
Classic Desktop <sup>4</sup>	The eLux Modern User Interface is deactivated. The <b>Background colour</b> selected on the <b>Desktop</b> tab is shown.
Sort Configuration panel <sup>5</sup>	The Configuration panel dialogs are displayed in alphabetical order (selected by default) <sup>6</sup>
Window manager	<b>Animated Windows:</b> The windows' content is displayed while moving them. <b>Maximize/Fullscreen:</b> With multiple monitors connected, you can assign each application (ICA and RDP) to a dedicated monitor.

---

---

<sup>1</sup>from Scout Enterprise 15.4

<sup>2</sup>only eLux RP 5

<sup>3</sup>only eLux RP 5

<sup>4</sup>only eLux RP 5

<sup>5</sup>from Scout Enterprise 15.5

<sup>6</sup>from Scout Enterprise 15.9

Option	x
System bar	<p>Show icons on the system bar:</p> <p><b>Show control panel:</b><sup>1</sup> Provides an icon users can click to access the control panel</p> <p>For eLux 6.4 and later versions, users can show the control panel (only system information) via <b>Configuration panel &gt; Information</b>. Earlier eLux clients managed by Scout Enterprise 15.4 need an entry in the <code>terminal.ini</code> file to show the control panel icon on the desktop (File: <code>/setup/terminal.ini</code>, Section: <code>Layout</code>, Key: <code>ShowControlPanelIcon</code>, Value: <code>true false</code>).</p> <p><b>Show Desktop icon:</b> Clicking this icon minimizes all open windows and shows the desktop (selected by default).</p> <p><b>Show live information icons:</b><sup>2</sup> These icons show current status information such as plugged USB devices, for eLux RP 6.8 and later versions via right-click (selected by default).</p> <p><b>Show Config panel icon:</b><sup>3</sup> Clicking this icon opens the device configuration (selected by default).</p>



### Important

Only if the Configuration panel is displayed, the administrator can unlock the configuration using the device password locally on the device.

Quick Config <sup>4</sup>	<p>Quick access to Config Panel dialogs via the system bar:</p> <p><b>Volume:</b> Volume control for input and output devices</p> <p><b>Keyboard:</b> Keyboard language and key speed</p> <p><b>Display:</b> Screen settings</p> <p><b>Peripherals:</b> Settings for USB devices and COM ports</p> <p><b>Network:</b> Network information and setup, disconnect/connect</p> <p><b>Device information:</b> Information on the device</p> <p><b>Date and time:</b> Date and time settings</p>
---------------------------	---

<sup>1</sup>only Scout Enterprise 15.2 and 15.3

<sup>2</sup>from Scout Enterprise 15.7 and eLux RP 6.7

<sup>3</sup>from Scout Enterprise 15.4

<sup>4</sup>for eLux RP 6.8 and later versions

Background picture	Desktop wallpaper (If further defined: only for the primary monitor/after AD logon <sup>1</sup> )
(only Scout Enterprise)	<p>Click <b>Load</b> to browse the file system and select a picture file. The picture file is imported into the database</p> <ul style="list-style-type: none"> <li>• The following file formats are supported: .svg, .png, .jpg<sup>2</sup></li> <li>• Maximum file size 500 MB</li> </ul> <p>To remove the current background image from the database, click <b>Delete</b>.</p> <p>As an alternative to a picture file from the file system, click <b>Set URL</b> to specify a web address for loading pictures.<sup>3</sup></p>
Background picture AD <sup>4</sup>	Desktop wallpaper until AD logon (primary monitor)
Additional picture	Desktop wallpaper after AD logon (second and more monitors)
Additional picture AD	Desktop wallpaper until AD logon (second and more monitors)



#### Note

Make sure you have enough flash memory on the device. The background image is stored in the `/setup` directory of the flash card.

Autostart <sup>5</sup>	The control panel is started after the system start with the defined delay in seconds.
Work spaces <sup>6</sup>	Number of desktops

### 6.3.3. Time zone and time server

In **Desktop > Date and time**,<sup>7</sup> you can select a time zone and specify a time server.

Option	Description
Time zone	Click <b>Change time zone</b> and select the required time zone from the list..
Time server	Under <b>Time server</b> , specify the relevant server name or IP address..

The time server must comply with the Network Time Protocol (RFC 1305) or the Simple Network Time Protocol, a simplified form of NTP. Microsoft Windows operating systems include the **W32Time** service

<sup>1</sup>from Scout Enterprise 15.8

<sup>2</sup>Preview cannot be shown

<sup>3</sup>from Scout Enterprise 15.8

<sup>4</sup>from Scout Enterprise 15.8

<sup>5</sup>only eLux RP 5

<sup>6</sup>only eLux RP 5

<sup>7</sup>for eLux RP 6.2 and later versions **Configuration panel > Date and time**



which communicates via SNTP in older versions such as Windows 2000, and uses NTP in later versions. The time service is started automatically.

The service runs on port 123 and uses the UDP protocol.

On the eLux RP 5 client, click the **Synchronize** button to synchronize the current time with the time server.

For further information on the Windows Time Service, see the Microsoft documentation.

For further information on NTP, see <http://www.ntp.org>.

---

## 6.4. Screen tab

- Screen resolution and rotation
- Layout for multiple monitors
- Power save mode
- Screen saver



### Note

To modify the screen resolution settings, instead of the control panel, use the systray icon because it shows the resolution values supported by the individual monitor.

---

### 6.4.1. Screen saver

#### Configuring screen saver

1. Under **Display > Screen saver settings**, select if you want to use a black screen, a specific screen saver or multiples screen savers.
2. Depending on the option chosen, select one or more screen savers from the list. To select multiple entries, press SHIFT or CTRL



### Note

The **HTML** option allows you to configure a website.<sup>1</sup>

---

3. Configure each screen saver by using the settings on the right..

#### Enabling screen saver

For Scout Enterprise Management Suite 15.2 / eLux RP 6.2 and earlier versions:

- ▶ On the **Screen** tab, select the **Screen saver** option. In the **Delay** box, type a time period in minutes to define when you want the screen saver to turn on.

For Scout Enterprise Management Suite 15.3 / eLux RP 6.3 and later versions:

- ▶ On the **Power management** tab, configure your profiles with the **Enable screen saver after** option and specify a waiting time in minutes.

#### Locking the screen on the device

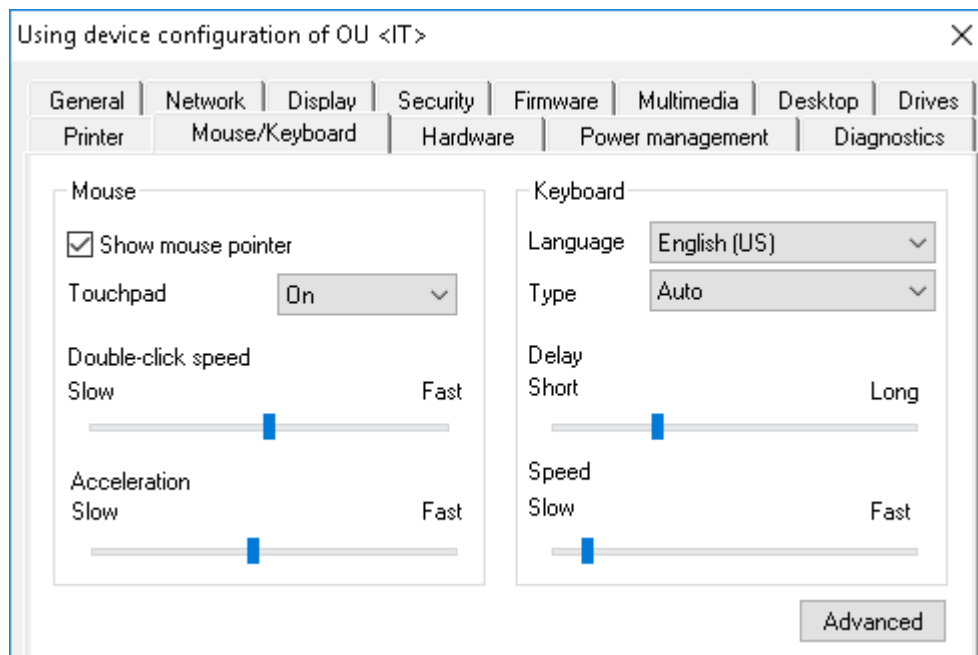
If the screen saver is enabled, the eLux user can lock the screen before the configured waiting time by using a key combination:

- ▶ Press STRG+ALT+ENDE

---

<sup>1</sup>for Scout Enterprise 15.8 and later versions

## 6.5. Mouse/Keyboard tab



### 6.5.1. Configuring mouse settings

- On the **Mouse/Keyboard** tab, under **Mouse**, edit the following fields:

Option	Description	
Show mouse pointer	To hide the mouse pointer, clear the option. The mouse type is automatically identified. <sup>1</sup>	
Touchpad <sup>2</sup> (für mobile Geräte)	On	Enables the touchpad (default)
	Off	Disables the touchpad
	Auto	Disables the touchpad when a mouse is plugged in
Double-click speed	Double-click speed defines the time interval between the two clicks of a double-click.	
Acceleration	The faster the mouse pointer, the smoother the movements.	

### 6.5.2. Configuring the keyboard

- On the **Mouse/Keyboard** tab, under **Keyboard**, edit the following fields:

<sup>1</sup>for Scout Enterprise Management Suite 15.0 and later versions

<sup>2</sup>from Scout Enterprise Management Suite 15.9 and eLux RP 6.9.0

Option	Description
Language	Keyboard layout
Type	If the value is set to <code>Auto</code> (default), the keyboard type is identified automatically by the system.
Delay	The delay controls how long a key needs to be pressed until the letter is retyped.
Speed	The speed controls how fast a letter is retyped when a key is pressed.

### 6.5.3. Advanced mouse and keyboard settings

1. On the **Mouse/Keyboard** tab, click **Advanced**.
2. Edit the following fields:

Option	Description						
Left-handed	Switches primary and secondary mouse buttons						
Dead Keys	<p>Dead keys only produce visible output when they are followed by a second key-stroke. Accent keys are dead keys as they need to be pressed before you press a character key (<code>` + A =&gt; à</code>).</p> <p>Note: Some hardware platforms and some applications do not support this option.</p>						
Console switch	<p>Users can use key combinations to switch between consoles.</p> <p>If the option is not selected, console 1 (eLux desktop) is always shown.</p> <p>For further information, see <a href="#">Shortcuts</a> in the <b>eLux</b> guide.</p>						
Extended keys	Enables multimedia keys and other keys with special functions on the keyboard.						
Num Lock	<table> <tr> <td>On</td><td>Enables the numeric keypad of the client keyboard on device start (default)</td></tr> <tr> <td>Off</td><td>Disables the numeric keypad of the client keyboard on device start</td></tr> <tr> <td>Auto<sup>1</sup></td><td>Enables the numeric keypad on mobile devices and disables it on other devices</td></tr> </table>	On	Enables the numeric keypad of the client keyboard on device start (default)	Off	Disables the numeric keypad of the client keyboard on device start	Auto <sup>1</sup>	Enables the numeric keypad on mobile devices and disables it on other devices
On	Enables the numeric keypad of the client keyboard on device start (default)						
Off	Disables the numeric keypad of the client keyboard on device start						
Auto <sup>1</sup>	Enables the numeric keypad on mobile devices and disables it on other devices						

3. Confirm with **OK** and **Apply**.

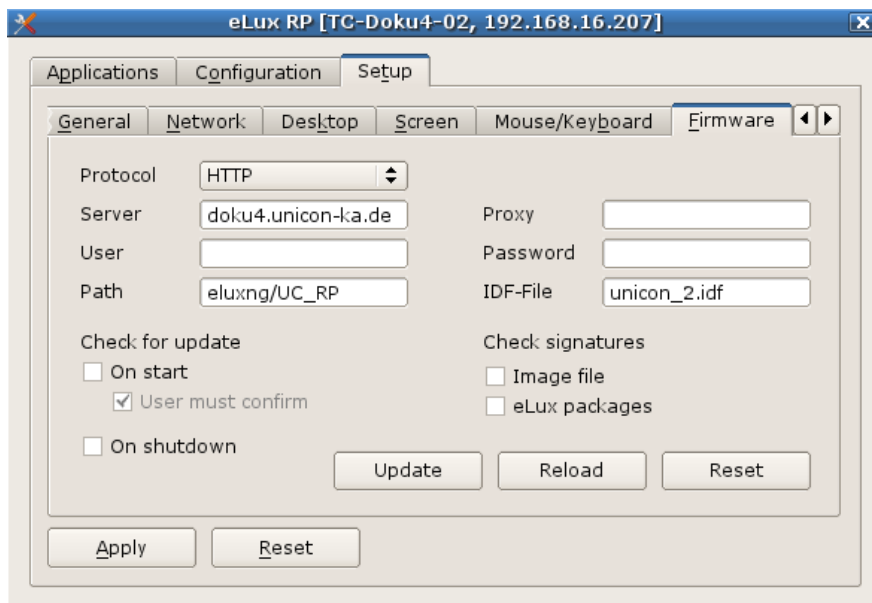
*The modifications become active on the next restart of the Thin Client.*

<sup>1</sup>for Scout Enterprise Management Suite 15.3 and later versions

## 6.6. Firmware tab

On the **Firmware** tab, you configure the firmware update settings for software updates of your device.

Moreover, you can initiate commands such as performing a firmware update right from here. For further information, see [eLux commands](#).



### 6.6.1. Updating the firmware

You can check anytime if the current software status of a Thin Client does match with the available IDF on the server and, if required, initiate a firmware update on-demand.

1. Check if the firmware settings of the device configuration are configured correctly. For further information, see [Configuring firmware update](#).
2. For eLux RP 6,<sup>1</sup> show the extended **Command panel** of the System bar.  
For eLux RP 5, in the control panel, select **Setup > Firmware**.
3. Click the **Update** button.

*The client firmware is compared to the specified IDF on the web server. A message will inform you, if the IDF on the web server contains updated packages and hence requires a firmware update.*



#### Note

Before starting the update, click **Details** to view the components that require an update.

4. To perform the firmware update, click **Yes**.

*The firmware update is performed and the client is restarted.*

<sup>1</sup>for eLux RP 6.2 and later versions

---

### 6.6.2. Synchronizing configuration

After having modified the device configuration or application definitions locally on the client, you can reset the configuration data to the server-side defined settings anytime.

1. For eLux RP 6,<sup>1</sup> show the extended **Command panel** of the System bar, and then, click the **Configuration** button.  
For eLux RP 5, in the control panel, under **Setup > Firmware**, click the **Reload** button.
2. Confirm with **Yes**.

*The current device configuration and application definitions for the device or OU are loaded from the Scout Enterprise Server and are available on the client on the next restart. Local configuration settings are overridden, unless they are protected.*

---

<sup>1</sup>for eLux RP 6.2 and later versions

### 6.6.3. Resetting a client to factory status



#### Important

A factory reset causes the system to reset local configuration data.

Resetting a client to factory status can be useful for troubleshooting, for example, if the locally defined device configuration does not work correctly.

1. Show the extended **Command panel** of the System bar, and then, click the **Factory reset** button.
2. Confirm with **Yes**.

*The device configuration of the client firmware is set back to the factory status,<sup>1</sup> local application definitions and locally stored configuration data are deleted.*

The following data are retained:

- Connection data to the Scout Enterprise Server including server address and OU ID
- License information
- The installed image with all software packages (firmware)

On the next restart, the client acts like a device in initial operation and can be connected to a Scout Enterprise Server via the following methods:

- DNS alias `ScoutSrv`
- DHCP options 222 and 223
- Local First Configuration Wizard on the client
- Searching for the device by using the **Discovery** feature of the Scout Enterprise Console

### 6.6.4. Configuring firmware updates



#### Note

The fields **Protocol**, **Server**, **Path** and **Image file** are used to build a URL used by the clients for firmware updates. The URL address is displayed below the **Path** field.

1. For the relevant device or OU, in the Scout Enterprise Console, open **Device configuration<sup>2</sup> > Firmware**. For eLux RP 6 clients, in the **Configuration panel**, select **Firmware**.<sup>3</sup>
2. Edit the following fields:

<sup>1</sup>From Scout Enterprise 15.7 and eLux RP 6.7, local user configuration data in unlocked fields can be configured by the Scout Enterprise administrator to be retained.

<sup>2</sup>formerly Setup

<sup>3</sup>for eLux RP 5: **Control panel > Firmware**.

Option	Description
Protocol	Network protocol of the web server for software package transfer to the clients (HTTP, HTTPS, FTP, FTPS)
Server	Name (FQDN) or IP address of the web server containing the eLux software packages and the image definition file
Proxy (optional)	<p>IP address and port number (3128) of the proxy server</p> <p>Format: IP address:port</p> <p>Example: 192.168.10.100:3128</p> <p>For Scout Enterprise Management Suite 15.3 and later versions, you can set a role for the static proxy (Provider/Consumer) or choose the entry <code>Dynamic</code>.</p>
User and Password (optional)	Username and password (if required) to access to the eLux software container of the web server
Path	<p>Directory path of eLux software packages on the web server / FTP server</p> <p>Use slashes / to separate directories.</p> <p>Example: Use <code>eluxng/UC_RP6</code> to refer to the IIS web server directory</p> <p>W:\inetpub\wwwroot\eluxng\UC_RP6\</p> <p>If you use ELIAS 18, specify the path name defined during the ELIAS 18 installation.</p> <p>Example: <code>elias/UC_PR6_X64</code></p> <p>If you use more than one eLux version, use the <a href="#">container macro</a> to parametrize the container directory.</p>
Image file	<p>Name of the image definition file (IDF) on the web server which is used for firmware updates</p> <p>Depending on the object rights, an IDF name can be entered or an IDF is selected from the list-field. For further information, see <a href="#">Allocation of the image definition file</a>.</p> <p>If you have UEFI devices and non-UEFI devices, use the <a href="#">Base System macro</a> within the IDF name.</p>
Check for new version on start / shutdown	<p>The Thin Client checks during start or shutdown whether any firmware updates are available and necessary.</p> <p>To allow the user to decline the update, select <b>Update confirmation necessary</b>.</p>
<b>Elias...</b> button	Starts the ELIAS tool and opens the image definition file indicated in the <b>Image file</b> field
<b>Security...</b> button	The <b>Security settings</b> allow you to define a signature check before update through the client. Signature checks can be performed for the image definition files and/or eLux software packages.



Option	Description
<b>Reminder...</b> button	The <b>Reminder Settings</b> allow you to define whether a user is allowed to defer a firmware update and for how long. Moreover, you can specify time intervals for the update reminder. For further information, see <a href="#">Update deferment by user</a> .

- Test the **Firmware** settings on a client. To do so, on the eLux RP 6 client, on the extended **Command panel** of the system bar, click **Update**. On the eLux RP 5 client, in the control panel under **Setup > Firmware**, click **Update**. For further information, see [Updating the firmware](#) in the eLux guide.

*If the settings have been defined correctly, a connection to the Scout Enterprise Server is set up to check whether an update is necessary.*

### 6.6.5. Firmware security through signature

You can configure the firmware configuration in the Scout Enterprise Console or on the client to have the client check signatures each time before an update is performed. An update is then only performed if the signature of the image definition file (IDF) and/or the signature of the eLux software packages have been successfully verified. The update cannot be run, however, if the IDF or one of the eLux software packages to be installed does not have a valid or verifiable signature.



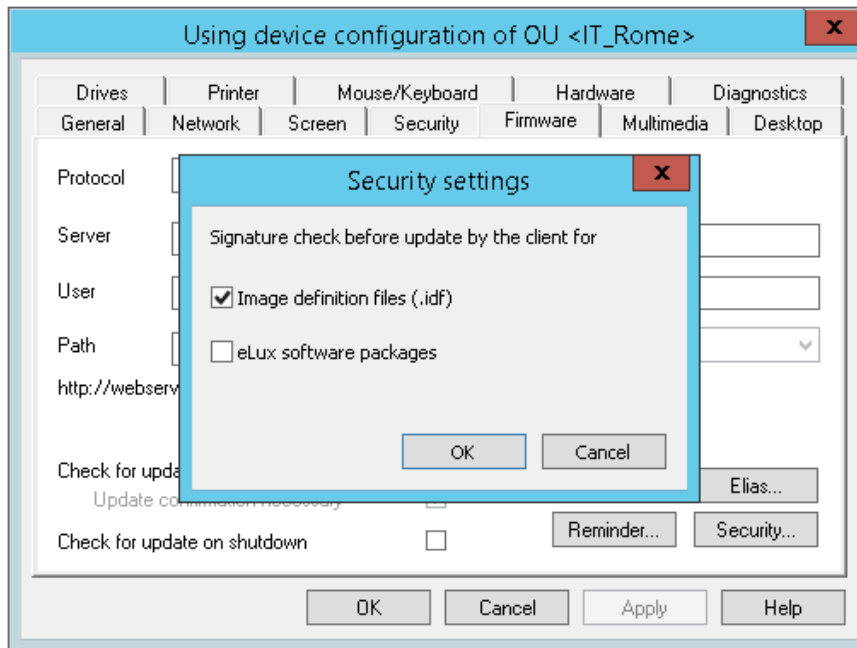
#### Important

A signature check of eLux software packages requires an update partition on the client computer. On devices without an update partition, signatures can only be checked for image definition files but not for eLux software packages. For further information on update partitions, see [eLux partitions](#).

### Activating signature check

- In the Scout Enterprise Console, under **Device configuration**<sup>1</sup> > **Firmware**, click **Security....** On the eLux RP 6 client, select **Configuration panel > Firmware > Check signatures before update**.

<sup>1</sup>formerly Setup



2. Under **Signature check before update**, select the **Image definition file** option and/or the **eLux software packages** option.
3. Confirm with **OK** and **Apply**.



#### Note

In eLux, both options are provided on the **Firmware** tab or in the **Firmware** dialog.

*The signature verification results are documented in the update log file on the client. After an update has been performed, the update log file is sent to the Scout Enterprise Server. To view it for the selected device, in the **Properties** window, double-click the **Update status** field.*

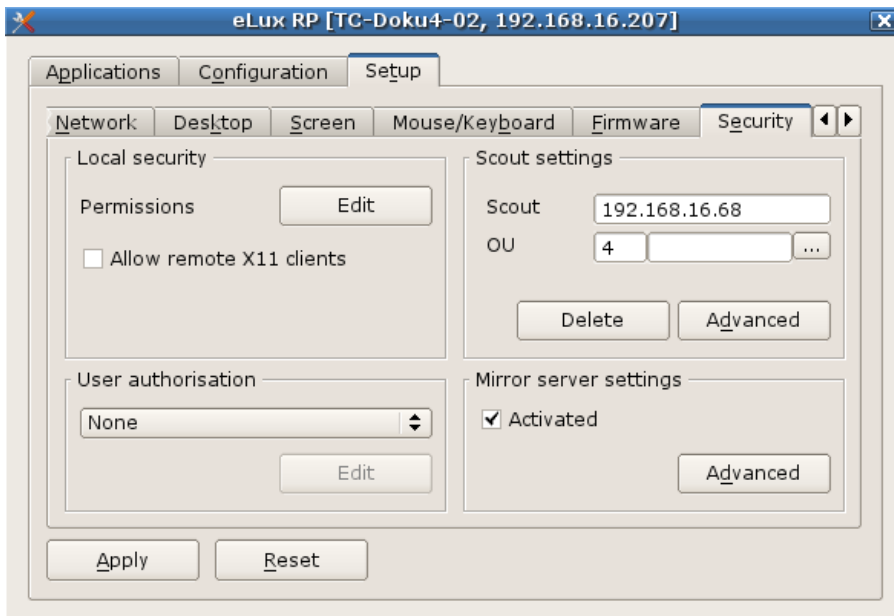
## Certificates

Verifying the IDF signature on the client side requires the root certificate, but also the signature certificate in the local client directory `/setup/cacerts`. If you use own certificates for signing IDFs or individually composed eLux packages, you can configure their transfer. To do so, use the Scout Enterprise feature **Files configured for transfer**. For eLux packages provided by Unicon, all required certificates are included in the BaseOS.

For further information on how to create IDF signatures, see [Signing an image](#) in the **ELIAS** guide.

## 6.7. Security tab

On the **Security** tab, you can edit the user rights, user authentication, Scout Enterprise Server settings as well as the mirroring settings.



### 6.7.1. Changing user rights

The eLux RP 5 client contains a **Setup** tab for device configuration and a **Configuration** tab with application definitions for the applications installed in the control panel. In version 6.3 and later versions, the device configuration and application definitions are located in the **Configuration panel**.

To prevent users from configuring defective or unwanted settings locally on the client, you can disable or restrict the user rights for individual features. Additionally, some general features such as **Log off** are provided. Each feature can be enabled or disabled.

Functions and options that you disable are displayed as dimmed on the client.



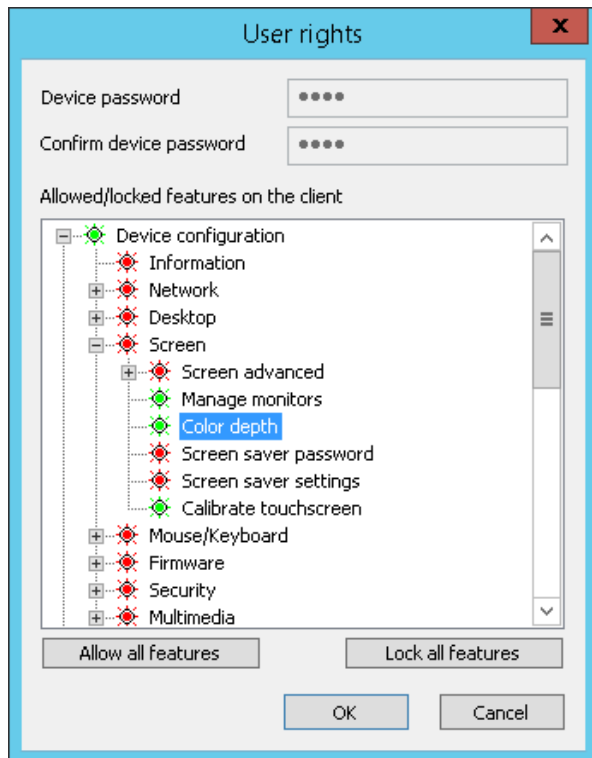
#### Note

If you allow local device configuration for some features, you can prevent the relevant fields and sections from being overridden by updating Scout Enterprise configuration data. For further information, see [Supporting local device configuration](#).

User rights can be configured for OUs and for individual devices, even for individual fields. For example, for security reasons, you might want to disable all tabs, but enable specific options such as some screen settings.

### Modifying user rights for device configuration

1. On the **Security** tab, under **Local Security**, click **User rights**.  
On the eLux RP 6 client, in the Configuration panel, click **Security > User rights**.



The **Device configuration**<sup>1</sup> node refers to the clients' device configuration and its structure corresponds to the tabs and fields of the eLux control panel (eLux RP 5) or Configuration panel (eLux RP 6).

In addition, among the user rights under **Security > Scout settings**,<sup>2</sup> you can find the options for the fields **Info1**, **Info2** and **Info3**. These fields are shown in the Scout Enterprise Console in the **Properties** window of a device and on the client in the **Configuration panel** under **Information** (eLux RP 6).<sup>34</sup>

2. Expand the nodes below **Device configuration**<sup>5</sup> as required.
3. To modify the status of the relevant features, double-click them or press the SPACE key.  
On the eLux RP 6 client, click the relevant option to switch between `modifiable` and `hidden`.

*In the Scout Enterprise Console and on the eLux RP 5 client, allowed features are displayed in green, locked features are displayed in red.*

*Modified user rights become active on the next restart of the client.*

## Modifying user rights for application definitions

1. On the **Security** tab, under **Local Security**, click **User rights**.  
On the eLux RP 6 client, in the Configuration panel, click **Security > User rights**.

<sup>1</sup>formerly Setup

<sup>2</sup>am RP 6-Client unter Sicherheit > Info 1-3

<sup>3</sup>for eLux RP 5 in the systray under Device information

<sup>4</sup>For eLux RP 6.5 and later versions, only one user right is used for all tree Info fields (Security > Info1-3).

<sup>5</sup>formerly Setup

2. To modify the status of the features subordinate to **Application definition**<sup>1</sup>, double-click them or press the SPACE key, depending on whether the users are allowed to create, edit or delete an application definition.  
On the eLux RP 6 client, click the relevant option to switch between `modifiable` and `hidden`.
3. If you lock the **Application definition**<sup>2</sup> node, on the client, the **Configuration** tab of the control panel (eLux RP 5) or the **Application definition** tab of the Configuration panel (Lux RP 6) is disabled and the users cannot view the application definitions.

**Note**

If you protect [local configuration](#) and decide to lock the three application features, we recommend that you also lock the **Application definition**<sup>3</sup> node to ensure that the application definition data are updated correctly.

*In the Scout Enterprise Console and on the eLux RP 5 client, allowed features are displayed in green, locked features are displayed in red.*

*Modified user rights become active on the next restart of the client.*

## 6.7.2. Local security settings

### Protecting control panel by device password

– only Scout Enterprise Console, for Scout Enterprise Management Suite 15.2 and later versions –

For eLux RP 5 clients, users can access the application definition and device configuration via control panel, depending on the user rights defined. For version 15.2 and later versions, you can even protect the opening of the control panel by requesting the device password.

- ▶ On the **Security** tab, under **Local security settings**, select **Lock control panel by device password**.

**Note**

You can also hide the icon that opens the control panel. For further information, see the **System bar** settings under [Advanced desktop settings](#).

<sup>1</sup>formerly **Configuration**

<sup>2</sup>formerly **Configuration**

<sup>3</sup>formerly **Configuration**

---

### 6.7.3. Configuring user authentication



#### Note

The eLux package **User authentication modules** must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

---

1. On the **Security** tab, under **User authentication**,<sup>1</sup> choose from the following authentication methods.

---

None	Disables user authentication
Active Directory	Active Directory (Microsoft directory service)
AD + smart card	Smart card with Active Directory

---

On the eLux RP 6 client, under **Security > User authentication**, enable user authentication. Then under **Authentication type**, choose between `Active Directory` and `AD + smart card`.

2. Click **Edit**.<sup>2</sup> Specify the server, server list or domains.  
If required, define user variables. For further information, see [User variables](#).  
Confirm with **Apply** and **OK**.
3. To help users log on quickly, select the **Show last user** option.
4. In the **Domain field** list, choose whether you want to allow users to modify the specified domain or whether you want to hide it.
5. For eLux RP 6.2 and earlier versions, you can select the option **Password protection for screen saver**. For eLux RP 6.3 and later versions, the screen saver is automatically protected by password if user authentication is enabled.
6. Confirm with **OK**.

*If you have enabled user authentication, the username and password are requested when the users log on after the next restart.*



#### Note

For devices that are not managed by Scout Enterprise, the administrator can log on with the username `LocalLogin` and device password to correct any settings, if required.

---

### Active Directory (AD)

You can define multiple domains that can be displayed with friendly names. In the client logon dialog, users can then choose between default and alternative domains.

---

<sup>1</sup>formerly Access authorization

<sup>2</sup>On the eLux RP 6 client, you find all options in the same dialog.

**Note**

To enable users to log on to different domains, the following software packages must be installed on the clients:

User authentication modules  $\geq 3.0.0-8$

Security libraries  $\geq 1.6.0.2-2$

BaseOS eLux RP  $\geq 5.4.0-1$

## AD directory tab

- Click **Add** to create one or more entries. Then edit the entry (F2 or double-click).

Option	Description
Name (optional)	Display name for the domain
Server, server list or domain	<p>IP address or name of the domain controller</p> <p>To specify more than one domain/server, separate them by spaces.</p> <p>Example:</p> <pre>int.sampletec-01.com dev.sampletec-01.com</pre> <p>If the server is not located in the same subnet as the client, enter the fully qualified domain name (FQDN).</p> <p>If you define more than one domain, the user can choose from a list. The domains are shown with their display name. The first entry is the default domain in the AD logon dialog on the client. You can define applications to be shown only in one of the domains.</p>

**Note**

We recommend using a Windows time server. If the system time of the domain controller and client differ, Active Directory queries cannot be run successfully.

## User variables tab

Based on LDAP attributes, you can define local variables and use them in the device configuration and application definition. For further information, see [User variables](#).

## Server profile tab (only Scout Enterprise)

The **Use server profile** option bundles and stores user profile data (only data that are not managed by Scout Enterprise) on the server when the user logs off. On the next logon, these data are restored. This feature helps provide users with their user data independently of the device they use. The profile directory must be defined in the AD in the UNC format.

## Automated logon tab

– from Scout Enterprise 15.9 –

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By using predefined logon data, terminals can, for example, run in kiosk mode under an AD service account.

Username, password and domain can be set as variables.

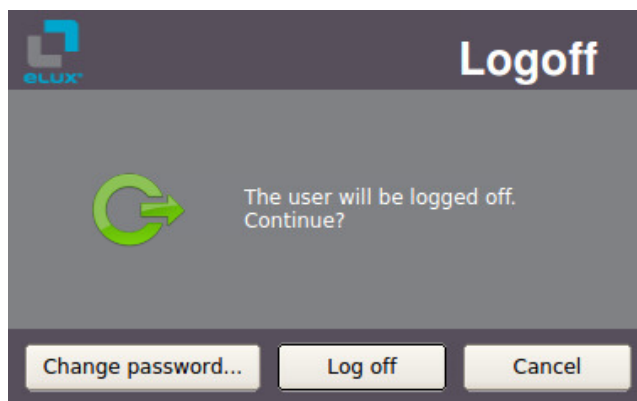
### Additional options for AD users

If Active Directory is used for user authentication, users log on with their AD domain account and password on the client. Passthrough logon is supported by applications which provide access to back-end systems (Citrix, RDP, VMware).

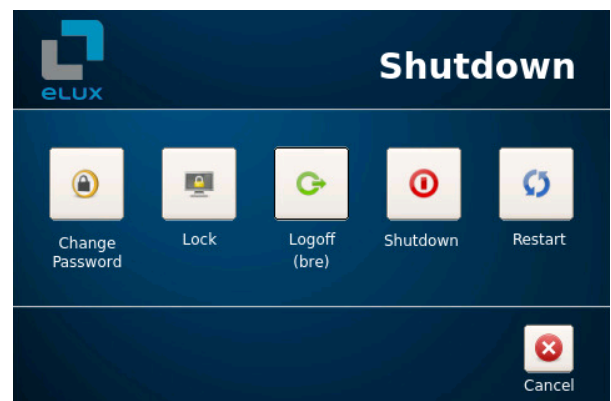
On the client, the logged-on user is shown in the Configuration panel under **Information**.<sup>1</sup>

### Change password

To change password, users can use the eLux command **Logoff** (eLux RP 6) or the **Shutdown** button of the control panel (eLux RP 5).



eLux RP 6



eLux RP 5

### Active Directory + Smart card



#### Note

To enable users to use smart card readers, ensure to install the relevant middleware on the clients. **sc/interface** by Cryptovision is smart card middleware that integrates smart cards and other smart tokens into IT environments. **sc/interface** supports more than 90 different smart card profiles. For further information, see the Cryptovision web page.

To use **sc/interface**, the eLux package **Cryptovision sc/interface PKCS11** must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

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<sup>1</sup>for eLux RP 6.4 and later versions



## Smart card tab

Option	Description
Behaviour of smart card on removal	If you choose <code>Lock screen</code> , ensure that, in the <b>Screen saver</b> settings, the <b>Password protected</b> option is selected. <sup>1</sup>
Allow logon with user-name+password	Smart card application allows user/password logon via the ESC key (eLux RP 5) or the <b>Username &amp; Password</b> link (eLux RP 6).
Show Username+password dialog by default <sup>2</sup>	Logon via username + password can be forced despite smart card configuration.  This option requires <b>Allow logon with username+password</b> to be enabled.

## Certificate tab

Certificate-based log-on requires verification of the user certificate against the root certificate.

- ▶ Select one or more root certificates, and then click **Add....**

*The selected certificates are transferred to the client.*

## User variables tab

Based on LDAP attributes, you can define local variables and use them in the device configuration and application definition. For further information, see [User variables](#).

For the **AD directory**, **Server profile** and **Automated logon** tabs, see [Active Directory \(AD\)](#).

<sup>1</sup>automatically set for eLux RP 6.3 and later versions

<sup>2</sup>for Scout Enterprise Management Suite 15.5 / eLux RP 6.6 and later versions

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## 6.7.4. User variables



### Note

If you want to use user variables, the **User authentication modules** and **Open LDAP** packages must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

The values of user variables are used by the authentication server for the log-on process. User variables can also be used in some fields of the eLux control panel.

Predefined user variables are

```
$ELUXUSER  
$ELUXDOMAIN  
$ELUXPASSWORD
```

The variables are used when users log on and **user authentication** is active.

## Where to apply user variables



### Note

To use this feature, user authentication via Active Directory is required.

When they are applied, user variables must have a leading \$. User variables can be applied in the following fields:

Command	Function	User variable
STRG + ALT + ENDE <b>Start &gt; Lock</b> <sup>1</sup>	Manual activation of screen lock	\$ELUXPASSWORD

## Device configuration

	Field	User variable
Drives	Username	\$ELUXUSER
	Password	\$ELUXPASSWORD
	Directory, Server, Share	Any \$ELUX variable
	Browser home directory	Any \$ELUX variable
Power management <sup>2</sup>	Enable screen saver	\$ELUXPASSWORD

---

<sup>1</sup>for eLux RP 5 and earlier versions

<sup>2</sup>for Scout Enterprise 15.2 and earlier versions: Screen tab

## Application definition

	Field	User variable
Citrix	Server	Any \$ELUXvariable
RDP	Username	\$ELUXUSER
VMwareView	Password	\$ELUXPASSWORD
	Domain	\$ELUXDOMAIN
Browser	Proxy type, Proxy port	Any \$ELUXvariable
Tarantella	Server	Any \$ELUXvariable
Local / Custom application	Parameter for all programs run from the command line  Example: eluxrdp /vint.sampletec-01.com.de /u:\$ELUXUSER /p:\$ELUXPASSWORD	Any \$ELUXvariable

## Defining new user variables



### Note

To use this feature, user authentication via Active Directory is required.

You can define your own user variables as local variables based on LDAP attributes. The variable definition has the form `Local variable = LDAP variable`

1. On the **Security** tab, under **User authentication**,<sup>1</sup> select `Active Directory (AD)` or `Active Directory + Smartcard`.
2. Click **Edit**.

<sup>1</sup>formerly Access authorization

3. Under **User authentication > User variables**, edit the following fields:

Option	Description
Local variable	<p>The name of the local variable must begin with the string <code>ELUX</code> (but without <code>\$</code>), which can be followed by any characters.</p> <p>Example:</p> <pre>ELUXFULLNAME</pre> <p>More than one entry can be transferred if you append a <code>#</code> sign to the variable name.</p> <p>Example:</p> <pre>ELUXmemberOf#</pre>
LDAP variable	<p>To be able to use the LDAP variables, the relevant LDAP variable names are assigned to the individual variable as an attribute.</p> <p>Example 1:</p> <pre>ELUXFULLNAME = displayName</pre> <p>Example 2:</p> <pre>ELUXmemberOf# = memberOf</pre> <p>If there are several <code>memberOf</code> values within the search base on the authentication server, they are assigned to the local variables <code>ELUXmemberOf_1</code>, <code>ELUXmemberOf_2</code> and so on.</p>

4. Confirm with **OK** and **Apply**.



#### Note

User variables are defined without a leading `$`, but when they are applied they must begin with `$`.

### 6.7.5. Configuring mirroring

1. To configure mirror sessions, on the **Security** tab, under **Mirror server settings**, click **Advanced**:<sup>1</sup>

Option	Description
Password (optional)	<p>If you define a mirror password, before a mirror session can be started, the password will be requested.</p> <p>The password must have 6 characters minimum and 8 characters maximum.</p>
Read access only	Allows read access only

---

<sup>1</sup>for eLux RP 6.2 and later versions **Configuration panel > Scout Enterprise > Mirror settings**

Option	Description
Confirmation necessary	Before a mirror session can be started, the user must confirm.
Encrypt mirror session	Uses encrypted transmission
Allow from Scout only	Mirroring is only allowed if either the Scout Enterprise Console or the Scout Enterprise Mirror App is used.
Transfer mirror information	The mirror session is logged.

- Click **Apply**.
- Select the **Activated** option to enable mirroring.



#### Note

The user can cancel a mirror session at any time. During the entire session, a message is shown to inform the user about the current mirror session.

In a mirror session, the keyboard layout of the local system has precedence.

### 6.7.6. Scout Enterprise connection

On the **Security** tab, under **Scout Enterprise settings**,<sup>1</sup> the data required to connect to the Scout Enterprise Server are shown or can be entered:

- IP address of the Scout Enterprise Server
- ID of the OU the client is assigned to

OUs can be protected by passwords that will be requested when a client is assigned to them.

To connect a client to the relevant Scout Enterprise Server, use the **Reverse Discovery** feature.


### Performing a Reverse Discovery



#### Note

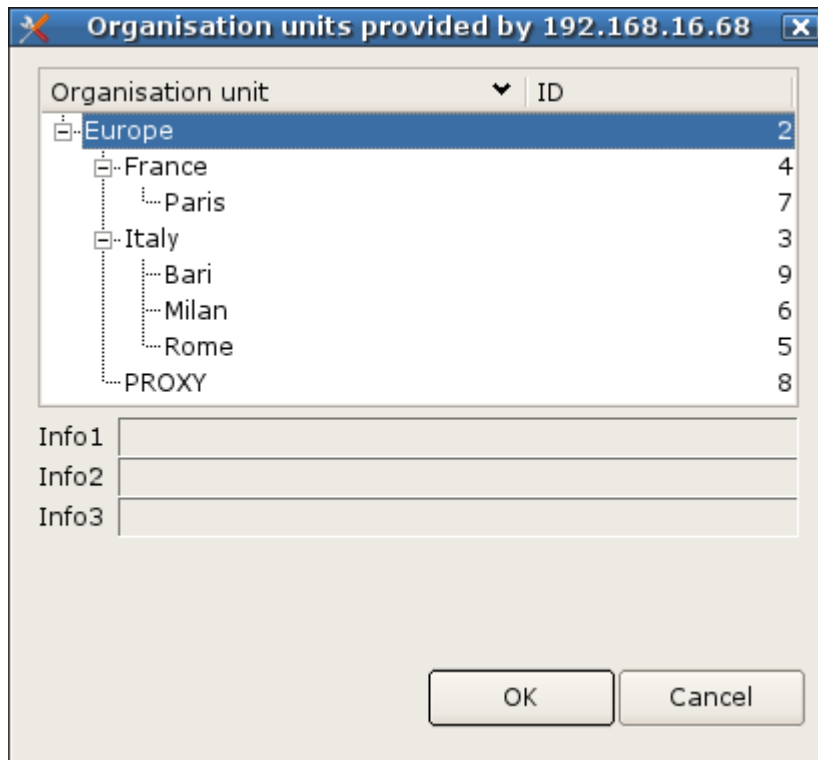
This feature is supported by eLux RP 5.x.. In eLux RP 6, use the Configuration panel under **Scout Enterprise > OU assignment** instead.

A client can search for its destination OU by using the **Reverse Discovery** feature.

- In the eLux control panel, click **Setup > Security**.
- In the **Scout Enterprise** box, enter the name or IP address of the Scout Enterprise Server.
- Click the  button.

*A window shows all OUs available on the specified Scout Enterprise Server.*

<sup>1</sup>for eLux RP 6.2 and later versions **Configuration panel > Scout Enterprise**



4. Select an OU.
5. Confirm with **OK** and **Apply**.

*After the next restart, the device it is assigned to the selected OU. The host name of the device is registered in Scout Enterprise as device name.*

*If a device profile has been reserved for the client, the predefined profile is automatically assigned at Reverse Discovery.*

## Disconnecting from the Scout Enterprise Server

- ▶ On the **Security** tab, under **Scout Enterprise settings**, click **Delete**.

*The device is set back to the initial state. All settings and all data are deleted, including the connection data for the Scout Enterprise Server.*



### Note

If the client is not connected to a Scout Enterprise Server, you can use the **Reverse Discovery** feature to search for the relevant server and add the client to the client infrastructure.

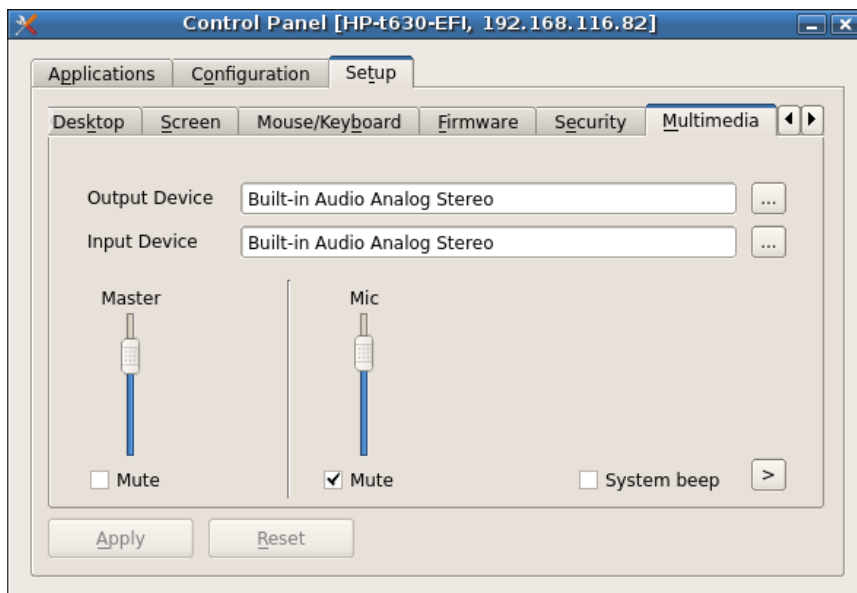
## 6.8. Multimedia

The output and input devices are grouped in classes depending on their connector. For each device class, you can control the volume level (output), the sensitivity (input) and the **Mute** option separately.

USB	USB port
Analog	TRS audio jack (phone connector) or integrated devices
Digital (output only)	DisplayPort or HDMI

By default, the priority is defined: USB – Analog – Digital. Priority can be changed in the Scout Enterprise Console. For further information, see [Multimedia tab](#) in the **Scout Enterprise** guide.

On the client, the connected devices are shown in list-fields.



Option	Description
Volume (output)	Slider to control the playback sound level for the selected device class (0 to 100)
Microphone (input)	Slider to control the level of sensitivity for recording for the selected device class (0 to 100)
Mute (output and input)	No sound is reproduced / recorded
System beep	Acoustic feedback signal when switching off the client

---

## 6.9. Drives tab

Define shared network directories on you Windows server as drives that can be accessed by the clients. Any drive defined this way can for example be used as browser home directory.

### 6.9.1. Defining a network drive

1. In **Device configuration > Drives > SMB Drives**, click **New**.
2. Edit the following fields:

Option	Description
Directory	Any name for the directory
Server	Name of the server including the path
Share	Windows share name
Username and password	Windows username and password to access the directory
Domain	Can alternatively be specified in the <b>User</b> field: <Domain\User> or <User@Domain>
AD authentication (only Scout Enterprise)	The Active Directory logon data are used to access the directory. The fields <b>Username</b> and <b>Password</b> are disabled.
Test (only eLux)	Checks if the network share can be accessed with the specified data



#### Note

To access network drives with AD authentication, the software package **Network drive share** and the included feature package **Linux Key Management Utilities**<sup>1</sup> must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

---

3. Click **OK** and **Apply**.

*The directory path `/smb/` is automatically inserted before the directory name. The data are provided on the local flash drive under `/smb/<Directory name>`.*

Example: `/smb/share`

---

<sup>1</sup>for eLux RP 5.3 and later versions





### Note

Here, you can apply LDAP user variables. For further information, see [Where to apply user variables](#).

To make browser settings such as bookmarks permanently available, define a network drive as the browser home directory. For further information, see [Browser home directory](#).

## 6.9.2. Browser home directory

By default, the browser settings are temporarily saved to the flash memory. However, they are deleted with each client restart.

If you define a browser home directory on the network, browser settings such as bookmarks can be saved and made available to the user after each client restart. Use a network share that you have configured for access:



### Requires

Configured Windows network share (**Defined drive**).

Example: `/smb/share`


For further information, see [Defining a network drive](#).

## Defining browser home directory



### Note

The following information refers to Scout Enterprise Management Suite 15.0 and later versions. Documentation for earlier versions can be found in the **Archive** section of the [PDF downloads](#) page.

- 
1. In the tree view, for the relevant level, open the  **Applications** context menu and click **Software defaults...**  
For further information, see [Defining software defaults](#).
  2. In the list-field, select the relevant browser and click **Edit**.
  3. In the **Browser home directory** field, enter the name of one of the defined drives in **Device configuration<sup>1</sup> > Drives**. The name must correspond to the name on the list.  
Example: `/smb/share`
  4. Confirm with **OK**.

*The browser settings are saved to the specified Windows directory.*

### 6.9.3. Mount points

Mount points are used to access local resources through an application. The following mount points are provided by eLux:

---

Samba	/smb
NFS	/nfs
Internal CD-ROM	/media/cdrom
USB devices	/media/usbdisk*

---

\*For USB devices, mount points are assigned chronologically: The first device is assigned `/media/usbdisk`, the second one `media/usbdisk0`, etc.

Mounted devices are shown in the systray (eLux RP 5) or as live information (eLux RP 6).



#### Note

Due to security reasons, the **Allow mass storage devices** must be selected on the [Hardware tab](#).<sup>2</sup>

---

For managed eLux RP 5 clients, in the Scout Enterprise Console, the display can be disabled with the relevant device configuration option under **Desktop > Advanced > Taskbar**.

---



#### Note

Drive mapping for access to local resources must be defined in the relevant application definition. For Citrix ICA applications see [ICA software defaults](#). For RDP applications see [Advanced application settings](#).

---

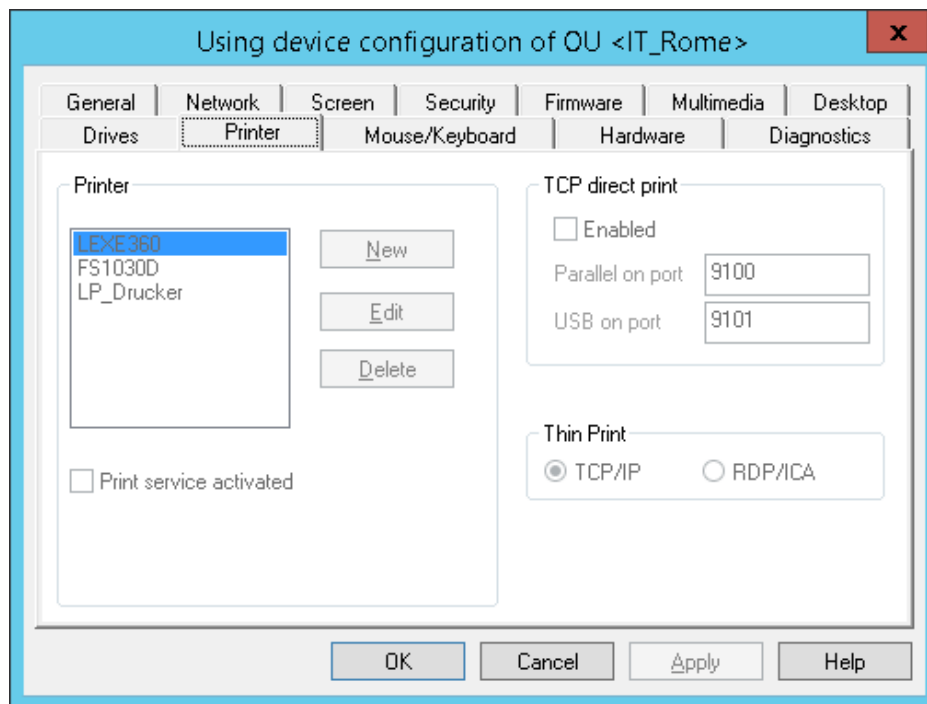
---

<sup>1</sup>formerly Setup

<sup>2</sup>for eLux RP 6.2 and later versions: Peripherals tab

## 6.10. Printer tab

eLux supports printing from local applications both to locally connected printers and to network printers. In addition, other systems or servers within the network can use a locally installed printer on a Thin Client running eLux. Next to the protocols LPR and TCP direct printing, proprietary protocols are also available.



In the Scout Enterprise Console, in **Device configuration**<sup>1</sup> > **Printer** > **New**, you can define and configure local printers with logic names.

In eLux RP 5, open the Control panel and **Setup** > **Printer**.

### 6.10.1. Defining a locally connected printer

1. In the device configuration, on the **Printer** tab, click **New**.
2. In the **Define printer** dialog, type a name for the printer.
3. In the **Connection type** list, choose how the printer is connected to the client.
4. In the **Filter** list, choose whether to use a filter. To print via a Linux Shell, select the `text` filter. For further information on the filters, see [Defining a network printer](#).
5. Confirm with **Apply** and **OK**.

<sup>1</sup>formerly Setup

## 6.10.2. Defining a network printer

1. In the device configuration, on the **Printer** tab, click **New**.

The screenshot shows the 'Define printer' dialog box. The 'Name' field is set to 'LEXE360'. Under the 'Connection' section, 'Connection type' is 'Network', 'Filter' is 'PCL2', 'Baud-Rate' is '<System>', 'Printer address' is '172.18.164.125', and 'Printer queue' is 'raw0'. Under the 'Server-side' section, 'Driver name' is 'Lexmark E360dn XL'. There is an 'Edit driver names...' button below it. The 'thinprint' section has a 'Connect' checkbox and a 'Class' text field. The 'OK' and 'Cancel' buttons are at the bottom.

2. In the **Define printer** dialog, type a name for the network printer.
3. In the **Connection type** list, select `Network`.
4. In the **Filter** list, select one of the following options:

Option	Description
None	The printing data from the session are forwarded to the printer in an unfiltered format.
Text	Enables printing from a local shell
PCL2	Enables printing to non-postscript printers in PCL format If the users do not print from a Citrix session, the connected printer must support one of the following languages: <b>PCL2</b> , <b>PS(Postscript)</b> or <b>PDF</b> .

5. In the **Printer address** field, enter the IP address of the server.
6. In the **Printer queue** field, enter the share name of the printer.
7. In the **Driver name** field, enter the printer's driver name. The driver is used for printing from a Windows session.



### Important

Make sure that the printer driver name is spelled in the same way as the name of the installed driver on the server. The name is case-sensitive and sensitive to white spaces. If the names do not match, the server cannot identify the driver.

For further information, see [Citrix auto-created printers](#).

8. Confirm with **OK** and **Apply**.

For further information, see your printer's manual.

### 6.10.3. Sharing printers

All printers defined in **Device configuration**<sup>1</sup> > **Printer** can be shared with other systems via LPD within the network.

1. In **Device configuration** > **Printer**, select the **Print service activated** option.
2. Activate the Windows LPD service (Line Printer Demon).

*This option ensures that the print service is started at the client. All printers defined in the list can be used to print jobs from network devices.*

*The printers are controlled by the CUPS server.*

### 6.10.4. CUPS

The CUPS server is installed by default on the clients (**Print Environment (CUPS)** package) and allows printing from local applications and the use of locally attached printers.

The Common UNIX Printing System™ (CUPS™) is a free-of-charge software from Easy Software Products. It provides a common printing interface within local networks and dynamic printer detection and grouping. For further information, see [www.cups.org](http://www.cups.org).

The CUPS server can print to serial and parallel ports, USB and the network (LPD).

The CUPS printing system is particularly useful to print from local applications on the Thin Client (for example from Adobe Acrobat or a local browser). These local applications have PostScript as output format. If you do not have a PostScript printer, you are required to install a filter such as **PostScript to PCL** on the CUPS server.

### CUPS web interface for print management



### Note

The eLux package **Print Environment (CUPS)** and the included feature package **Web administration service** must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

<sup>1</sup>formerly Setup

---

To manage print jobs, the user can access the CUPS web interface in a local browser with the following URL:

`http://localhost:631`

The web interface can also be used by the administrator to configure the CUPS server. To do this, you must enter the credentials for the local administrator account (`LocalLogin` and device password).

#### 6.10.5. Citrix auto-created printers

Citrix XenApp provides automatic configuration of printers (**autocreated printers** or **dynamic printer mapping**). When the user logs on through a Citrix connection, an automatic printer definition is created on the Citrix server. The printer definition can only be used by the logged-on user and is deleted when the user logs off.

Citrix uses either the specified printer driver or, if not available, the universal Citrix printer driver, which is not tied to any specific device.

##### Configuring local printer for auto-creating on the client:

1. In **Device configuration > Printer**, specify one or more printers.
2. In the **Define Printer** dialog, in the **Name** box, enter the Microsoft Windows printer's name precisely as listed in the drivers list of the server. The name is case-sensitive.

*When the user connects to the Citrix server, the automatically created client printers are shown in the printer settings.*

*If the specific driver is not installed on the application server or the name is not identical, the client printer can not be created and the universal Citrix printer is used.*

#### Citrix Universal Printing

The universal Citrix printer and various printer settings can be configured on the Citrix server, administrator rights provided.

For further information, see the **Citrix Product Documentation**.

#### 6.10.6. TCP direct print

The print data can be received directly via TCP/IP and sent to the parallel port or USB port to the printer. The data are not modified before printing and there is no spooling of print jobs. TCP/IP handles the flow control.

##### Configuring TCP direct print

1. In **Setup> Printer**, under **TCP direct print**, select the option **Enabled**.
2. Specify the relevant port number for the communication.  
The default port numbers are:

9101 for USB printers

9100 for parallel port printers

**Note**

Note that the specified ports are opened on the client.

---

To print from a Windows session, for the printer port, choose a standard TCP/IP port. Specify the client IP address and the TCP/IP port selected in the previous step. Select `Raw` for the protocol in Windows.

### 6.10.7. ThinPrint

ThinPrint software from ThinPrint GmbH allows optimized network printing across various platforms. ThinPrint is a print protocol that, unlike TCP direct print, LPR or CUPS, allows bandwidth limitation. It is therefore recommended for networks with low bandwidth (WAN).

The software consists of a server component and a client component. The ThinPrint server processes the print data for the target printer and sends them to the client in compressed form. The ThinPrint client receives the print jobs from the server, decompresses and forwards them to the selected printer. ThinPrint server and client are connected via TCP/IP.

#### Configuring ThinPrint

1. Install the ThinPrint client on the device.
2. Connect a printer.
3. In **Device configuration**<sup>1</sup> > **Printer** > **New**, define the printer, and under **ThinPrint**, select the **Connect** option. Optionally, enter a class name of up to 7 characters.
4. If you use Windows CE clients, in **Device configuration** > **Printer** under **ThinPrint**, select the relevant protocol.
5. Configure the ThinPrint server. For further information, see the ThinPrint documentation on [www.thinprint.com](http://www.thinprint.com).

---


<sup>1</sup>formerly Setup

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## 6.11. Hardware

On the **Hardware** tab,<sup>1</sup> you can enable or disable USB mass storage devices, configure smart card readers and COM ports.



If you click the  icon of the systray, you can see all available USB mass storage devices, and you can also remove them securely.

### 6.11.1. USB mass storage devices and card readers

Option	Description
Allow mass storage devices	Allows using connected USB mass storage devices  If the local use of USB devices via mountpoints is allowed, connected USB devices are shown on the system bar in the systray (eLux RP 5) or live information (eLux RP 6). <sup>2</sup>
No local mount, only USB redirection <sup>3</sup>	Restricts the use of USB mass storage devices to USB redirection within configured sessions on a backend. There are no mount points provided to use USB mass storage devices locally on the eLux client.
Use rules	Restricts the use of USB mass storage devices according to defined rules:  Using USB mass storage devices can be restricted to devices with specified VID (Vendor ID) and/or PID (Product ID) such as an individual USB stick model. Moreover, the USB rules can be applied to further USB device classes such as smart card readers.
Edit	Opens the <b>USB rules</b> dialog: Define rules to explicitly allow or deny individual device models.
Card reader	Enables card readers on the selected port
Inform user	When a USB mass storage device is connected or disconnected, a systray message (eLux RP 5) or live information message (eLux RP 6) <sup>4</sup> is displayed.
COM port settings	Set particular COM port settings such as speed, parity, stop bits
Write filter (only Windows Embedded)	The user is not allowed to store local data on their Windows Embedded client.

---

<sup>1</sup>for eLux RP 6.2 and later versions **Configuration panel > Peripherals**

<sup>2</sup>for eLux RP 6.4 and later versions

<sup>3</sup>for eLux RP 5.4 and later versions

<sup>4</sup>for eLux RP 6.4 and later versions



**Note**

To enable users to use smart card readers, ensure to install the relevant middleware on the clients. **sc/interface** by Cryptovision is smart card middleware that integrates smart cards and other smart tokens into IT environments. **sc/interface** supports more than 90 different smart card profiles. For further information, see the Cryptovision web page.

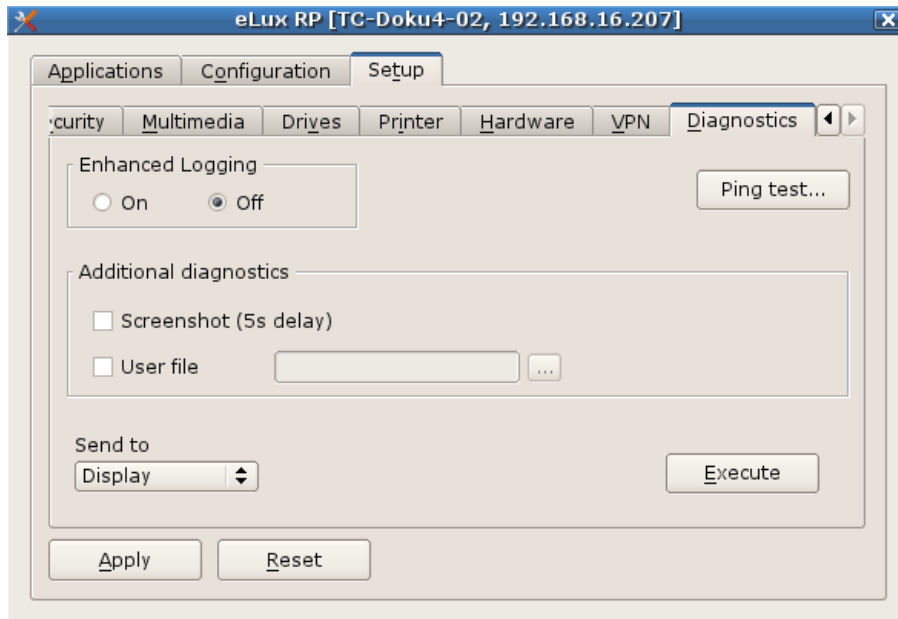
To use **sc/interface**, the eLux package **Cryptovision sc/interface PKCS11** must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

---

## 6.12. Diagnostics tab

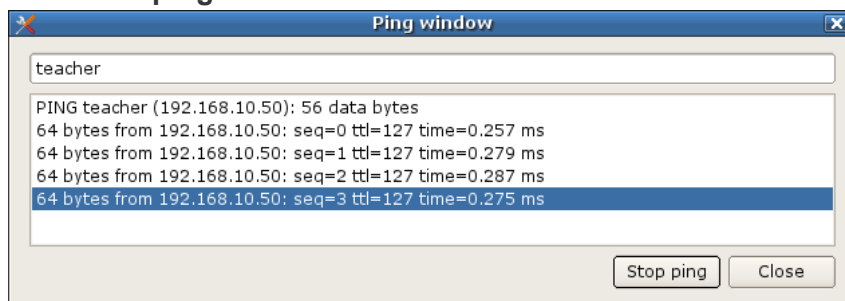
The following diagnostic options are provided:

- Enhanced logging to retrieve configuration and log files to a greater extent
- Additional diagnostics by creating screen shots and additional diagnostic files
- Displaying or sending relevant files to FTP server, Scout Enterprise Server or disk
- Ping test to check connectivity and latency in your network



### 6.12.1. Running ping test

1. On the **Diagnostics** tab, click **Ping test...**
2. In the **Ping window**, in the field on top, type the name or IP address of the server you want to connect with.
3. Click **Start ping**.



*The client connects to the server and, in the bottom windows section, the ping command is*

*executed unless you stop.*

4. Click **Stop ping**.

### 6.12.2. Starting diagnostics

1. On the **Diagnostics** tab, enable **Enhanced logging**.
2. To save an additional screenshot, select the **Screenshot** option.
3. To add an additional file, select the **User file** option and select the file from the file system.
4. Under **Send to**, select where the diagnostic files should be sent to:

Option	Description
Disk	Files are saved to local data medium
FTP server	Files are saved to an FTP server
Scout Enterprise	Files are saved to the Scout Enterprise folder <code>%USERPROFILE%\Documents\UniCon\Scout\Console\Diag</code>
Display	Opens the <b>Log Viewer</b> window in eLux which shows a couple of diagnostic files and their content.

5. Click **Execute**.

---

## 6.13. VPN tab



### Note

The **VPN** tab is only shown if the relevant software is installed on the client.

---

The following VPN Clients are supported:

- Cisco AnyConnect
- OpenVPN
- VPNC (only for eLux RP version 4)

Option	Description
Type of VPN client	List of the VPN clients installed
Auto connect	The VPN client is started automatically on each restart.
Configuration file	Name of the configuration file can be opened and modified with <b>Edit</b>

---

Depending on the VPN client used, the client devices must have a configuration file. For further information, see [VPN](#) in the **Scout Enterprise** guide.

## 7. Device configuration for eLux RP 6



### Important

If the client is managed by Scout Enterprise, configuration is normally done centrally in the Scout Enterprise Console. With inheritance enabled, local configuration changes on the client will be overwritten as soon as the client connects to Scout Enterprise. For further information, see [Device configuration](#) in the **Scout Enterprise** guide.

For eLux clients running eLux RP 6.1 and earlier versions, the local device configuration of the client is done in the control panel on the **Setup** tab. For further information, see [Device configuration for eLux RP 5](#).

For **eLux RP 6.2** and later versions, the local device configuration is located in the **Configuration panel** that you can show on the right of the screen. The contents of the individual dialogs more or less correspond to the **Setup** dialogs of earlier versions.

### Opening the configuration panel via key combination

- ▶ Press WINDOWS+ALT+C.

For further information on viewing and operating the Configuration panel, see [Configuration panel](#).

## 7.1. Volume dialog

The output and input devices are grouped in classes depending on their connector. For each device class, you can control the volume level (Volume output) and sensitivity (Volume input).

USB	USB port
Analog	TRS audio jack (phone connector) or integrated devices
Digital (output only)	DisplayPort or HDMI

By default, the priority is defined as follows: USB – Analog – Digital. Priority can be changed in the Scout Enterprise Console. For further information, see [Multimedia tab](#) in the **Scout Enterprise** guide.

The screenshot shows the 'Volume' dialog box. It has a teal header with the title 'Volume'. Below the header, there are two expandable sections: 'Output volume' and 'Volume input'. Each section shows a list of devices with 'Built-in Audio Analog Stereo' selected. The 'Output volume' section includes a horizontal slider from 'low' to 'high' and a 'Mute' toggle switch. The 'Volume input' section includes a horizontal slider from 'low' to 'high' and a 'Mute' toggle switch. At the bottom of the dialog, there is a 'System beep' toggle switch and a 'TEST SOUND' button.

Option	Description
Volume output	Controls the playback sound level for the selected device class
Volume input	Controls the level of sensitivity for recording for the selected device class

Option	Description
Mute (output and input)	No sound is reproduced / recorded
System beep	Acoustic feedback signal when switching off the client
Test sound	Plays a sample sound with the defined volume level

---

## 7.2. Mouse dialog

Mouse

Double-click speed

slowfast

Acceleration

slowfast

Left-handed

Show mouse pointer

Option	Description
Double-click speed	Defines the time interval between the two clicks of a double-click
Acceleration	The faster the mouse pointer, the smoother the movements.
Left-handed	Switches primary and secondary mouse buttons
Show mouse pointer	Determines whether the mouse pointer is shown



### 7.3. Keyboard dialog

Keyboard

Delay

shortlong

Speed

slowfast

Language
German

...

Dead keys

Num Lock
On

...

Console switch

Extended keys

Option	Description	
Delay	Controls how long a key needs to be pressed until the letter is retyped	
Speed	Controls how fast a letter is retyped when a key is pressed	
Language	Keyboard language	
Dead keys	<p>Dead keys only produce visible output when they are followed by a second key-stroke. For example, accent keys are dead keys as they need to be pressed before you press a character key (<code>` + A =&gt; à</code>).</p> <p>Note: Some hardware platforms and some applications do not support this option.</p>	
Num Lock	On	Enables the numeric keypad of the client keyboard on device start (default)
	Off	Disables the numeric keypad of the client keyboard on device start
	Auto <sup>1</sup>	Enables the numeric keypad on mobile devices and disables it on other devices

<sup>1</sup>for eLux RP 6.4 and later versions

---

Option	Description
Console switch	Users can use key combinations to switch between consoles. If this option is not selected, console 1 (eLux desktop) is shown.  For further information, see <a href="#">Shortcuts</a> .
Extended keys	Enables multimedia and other keys with special keyboard functions

---

## 7.4. Display dialog



### Note

Up to eLux RP 6.8, **Settings** and **Information** for all connected screens are displayed within the Config panel.



### Legend to numbers

- 1 All connected screens are displayed as monitor icons. The monitor icons can be moved freely via drag-and-drop operations.<sup>1</sup>
- 2 Options and details for the selected monitor

<sup>1</sup>for eLux RP 6.9 and later versions

---

## Legend to numbers

3	Selected monitor: All resolutions provided and supported by the screen are displayed and can be selected.
4	Selected monitor: The screen display can be rotated 270° (left), 180° (inverted) and 90° (right).
5	Selected monitor: Additional screens can be disabled. <sup>1</sup>
6	Selected monitor: Define as primary monitor screen
7	Selected monitor: Hardware details
8	Multiple monitors: Maximum supported resolution across all monitors
9	Multiple monitors: Automatic layout adjustment when a monitor is disabled.
10	Multiple monitors: Vertical alignment

### 7.4.1. Multiple monitors



#### Note

Up to eLux RP 6.8, you can organize multiple connected screens via options such as `Left of screen 2`. From eLux RP 6.9, a graphical solution with drag-and-drop operations is supported and described below.

If more than one monitor is connected, the following options are available:

- Arranging monitors (Layout)
  - ▶ In the layout section (1), drag and drop the monitor icons to the position corresponding to the physical set-up.  
Valid positions are all four sides of an existing monitor icon.
- Cloning monitors (Clone mode),<sup>2</sup> see below
- Disabling monitors<sup>3</sup>
  - ▶ In the layout section, select a monitor icon and select the **Active** option for it.  
Alternatively, drag and drop the monitor icon to the section for inactive monitors (2).
- Automatic layout adjustment when a monitor is disabled (4)
- Adjust vertical alignment (5)
  - ▶ From the list-field, choose between **Bottom** and **Top**.

When multiple monitors are positioned side by side, all monitors are aligned at the bottom, for example. You can use this to better arrange windows or smooth the transition with the mouse.

---

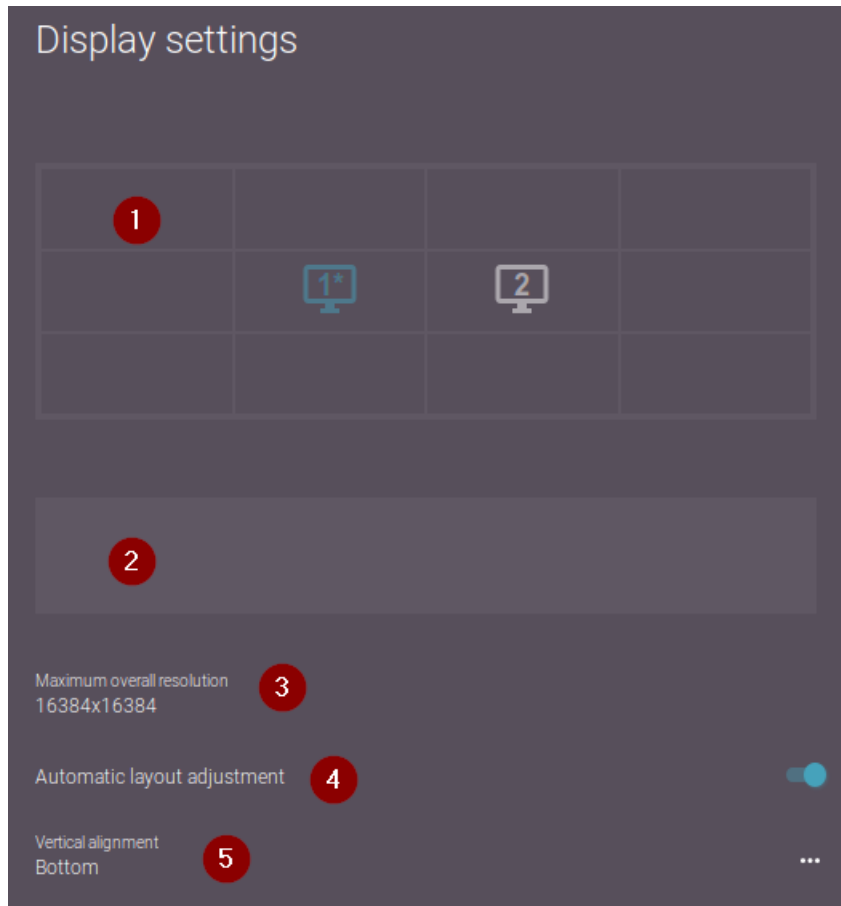
<sup>1</sup>for eLux RP 6.9 and later versions

<sup>2</sup>from eLux RP 6.9

<sup>3</sup>from eLux RP 6.9

**Note**

The system displays the maximum resolution supported by the graphics card across all monitors (3) and ensures that this value cannot be exceeded by user actions such as cloning or changing resolutions.

**Legend to numbers**

- 1 Layout section: All connected and active monitors

- Arrange monitors by drag-and-drop
- Cloning monitors

The selected monitor is displayed in blue.

The primary monitor is indicated by an asterisk.

- 2 Section for inactive monitors

- 3 Maximum resolution supported across all screens

- 4 Automatic layout adjustment when a monitor is disabled

- 5 Vertical alignment

---

## Cloning monitors

- Create clone ▶ In the layout section, drag one monitor icon over another while pressing CTRL.



*The two icons are merged into one monitor icon (clone). Both identifiers are displayed. An asterisk indicates whether the primary screen is included. The resolutions of all cloned monitors are changed to the greatest common resolution.*

One clone can contain up to four monitors.

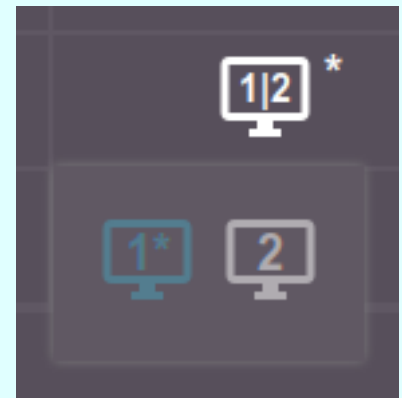
Even monitor icons from the section for inactive monitors may be dragged over an icon in the layout section for cloning while pressing CTRL.

- Show individual monitors of a clone

- ▶ Click a clone icon.

*A pop-up window opens showing the individual monitor icons.*

To show details for a screen, click a monitor icon in the pop-up window.



- Remove monitor from clone mode

- ▶ Drag the monitor icon from the open pop-up window to a free position in the layout section.

- Copy only rotation of a monitor

- ▶ In the layout section, drag monitor icon 1 over monitor icon 2.

*The rotation of screen 2 is changed to the rotation value of screen 1.*

---

## Number of supported monitors

The number of supported monitors depends on the device. If the maximum number of connected monitors is exceeded, eLux will disable the first monitor – or the exceeded number of monitors.<sup>1</sup> For example, if a notebook only supports one additional monitor (two in total) and you connect a second external monitor (three in total), eLux will disable the internal monitor.

---

<sup>1</sup>ab eLux RP 6.9

## 7.5. Network dialog

The screenshot shows the 'Network' configuration dialog. It has a teal header with the title 'Network'. Below the header, there are several sections. The first section contains 'Host' (eLux0490-8965-0953) and 'Profile name' (LAN | Default). The second section shows 'Status' (Connected). Below that is a 'REPAIR' button. The next section is 'Information', which is expanded to show 'General', 'Advanced', and 'Statistics' tabs. Under 'General', there are fields for 'Address type' (automatic), 'IP address' (192.168.52.127), 'Broadcast' (192.168.52.255), and 'Subnet mask' (255.255.255.0). Below this is the 'Network connections' section, which is also expanded to show 'LAN', 'WLAN', 'VPN', and 'WWAN' tabs. Under 'WLAN', there is a list of network profiles, currently showing 'Hanuman (S)' with a Wi-Fi icon and a three-dot menu. At the bottom, there is a '+ Add WLAN profile' button.

### Legend to numbers

- 1 The host name of a device can be set by the Scout Enterprise Console, by the First Configuration wizard, or by eLux (eLux-xxx).

If configured, you can change the host name locally (and send it to the DHCP server).

- 2 Shows the active network connection with network type and profile name

- 3 Shows the status of the active network connection

- 4 Use this button to check the status of the active network profile and establish a connection.

- 5 Under **Information**, network-related data such as IP address and MAC address of the device are shown, as well as statistics.

This segment can be hidden via the user rights.<sup>1</sup>

- 6 Under **Network connections**, depending on the hardware installed, up to four tabs are shown for different network types.

- 7 An existing network profile can be connected / disconnected, edited or deleted via menu. Click

- 8 Create a new network profile

The following network types are available:

- LAN (only one profile, cannot be deleted)
- Wireless LAN

<sup>1</sup>for Scout Enterprise Management Suite 15.5 and later versions

- 
- VPN
  - Wireless Wide Area Network (Mobile Internet)<sup>1</sup>



#### Note

In addition to Internet Protocol Version 4 (IPv4), **IPv6** is supported for local applications.<sup>2</sup> For further information, see [Internet Protocol version 6 \(IPv6\)](#) in the **Scout Enterprise** guide.

---


---

<sup>1</sup>for eLux RP 6.5 and later versions

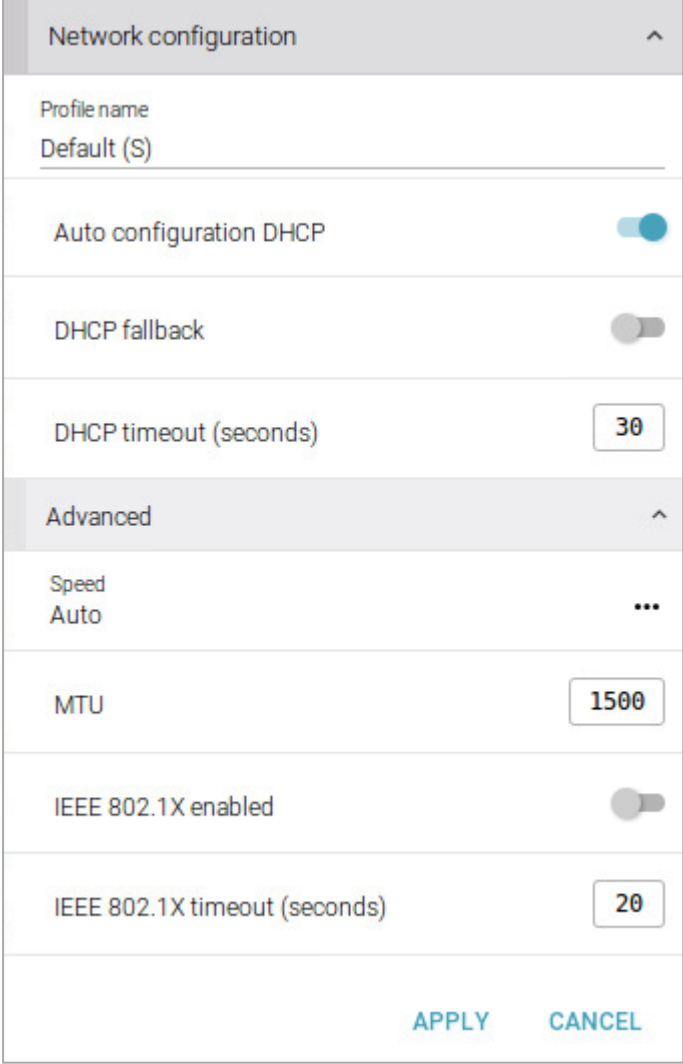
<sup>2</sup>for eLux RP 6.6 and later versions



### 7.5.1. Configuring the LAN profile

1. In the configuration panel, open the **Network** dialog, and under **Network connections**, select the **LAN** tab.
2. Click the displayed LAN connection (Default) or the  button next to it. Then, on the context menu, click **Edit**.

*The **Network configuration** dialog opens:*



The image shows a 'Network configuration' dialog box. It has a title bar with the text 'Network configuration' and a collapse icon. The dialog is divided into two main sections: 'Basic' and 'Advanced'. The 'Basic' section includes a 'Profile name' field with the value 'Default (S)', an 'Auto configuration DHCP' toggle switch that is turned on, a 'DHCP fallback' toggle switch that is turned off, and a 'DHCP timeout (seconds)' input field with the value '30'. The 'Advanced' section includes a 'Speed' dropdown menu with 'Auto' selected, an 'MTU' input field with the value '1500', an 'IEEE 802.1X enabled' toggle switch that is turned off, and an 'IEEE 802.1X timeout (seconds)' input field with the value '20'. At the bottom of the dialog are two buttons: 'APPLY' and 'CANCEL'.

Network configuration	
Profile name	Default (S)
Auto configuration DHCP	<input checked="" type="checkbox"/>
DHCP fallback	<input type="checkbox"/>
DHCP timeout (seconds)	30
Advanced	
Speed	Auto
MTU	1500
IEEE 802.1X enabled	<input type="checkbox"/>
IEEE 802.1X timeout (seconds)	20
<div>APPLY CANCEL</div>	

---

3. Edit the following fields:

Option	Description
Profile name	Name of the LAN profile  For profiles defined in the Scout Enterprise Console, the character string (S) is appended.
Auto-configuration DHCP	Integration into existing network via DHCP  If you do not use DHCP, use the provided fields to configure IP address, net mask, gateway and name server manually.
DHCP fallback	If DHCP fails, the defined settings are used as long as the lease is valid.
DHCP timeout	Timeout in seconds for the DHCP request
Speed	Data transfer rate in MBit/s
MTU	Maximum transmission unit
IEEE 802.1X enabled	Enables authentication via IEEE 802.1X
IEEE 802.1X timeout	Timeout in seconds for the IEEE 802.1X authentication
Use proxy <sup>1</sup>	The proxy setting you define here is used by the <code>System proxy</code> option in the browser application definition.  For further information, see <a href="#">Proxy configuration</a> .
Internet connection test <sup>2</sup>	Each time a connection is set up, the system can check whether addresses on the Internet can be reached.

4. Confirm with **Apply**.

---

<sup>1</sup>for eLux RP 6.5 and later versions

<sup>2</sup>from Scout Enterprise Management Suite 15.9

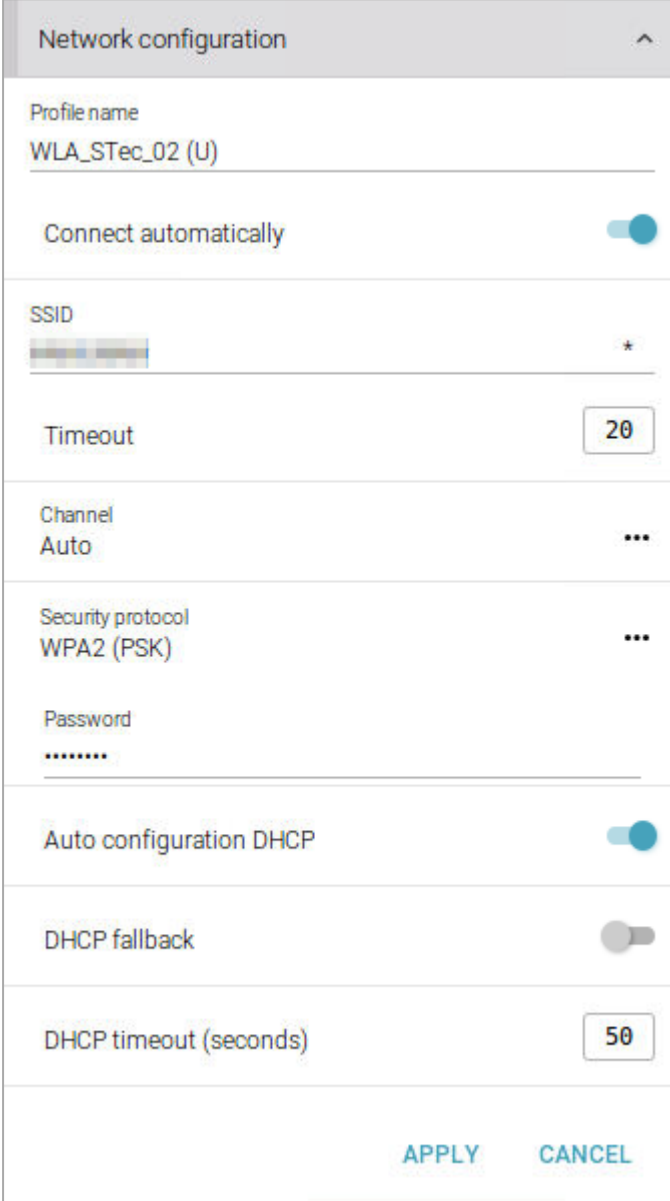
### 7.5.2. Adding a WLAN profile

1. In the configuration panel, open the **Network** dialog. Then under **Network connections**, select the **WLAN** tab.
2. Click **+ Add WLAN profile**.

*The WLAN networks active at the site are displayed with their SSID.*

3. Select the WLAN you want to connect to, or click **Manual**.

*The **Network configuration** dialog opens:*




The screenshot shows a 'Network configuration' dialog box with a title bar and a close button. The dialog contains several configuration fields and toggle switches. The 'Profile name' field is set to 'WLA\_STec\_02 (U)'. The 'Connect automatically' toggle is turned on. The 'SSID' field is masked with a blurred pattern and has a star icon. The 'Timeout' field is set to '20'. The 'Channel' is set to 'Auto' with a three-dot menu icon. The 'Security protocol' is set to 'WPA2 (PSK)' with a three-dot menu icon. The 'Password' field is masked with dots. The 'Auto configuration DHCP' toggle is turned on. The 'DHCP fallback' toggle is turned off. The 'DHCP timeout (seconds)' field is set to '50'. At the bottom, there are 'APPLY' and 'CANCEL' buttons.

Network configuration	
Profile name	WLA_STec_02 (U)
Connect automatically	<input checked="" type="checkbox"/>
SSID	[blurred] *
Timeout	20
Channel	Auto ...
Security protocol	WPA2 (PSK) ...
Password	.....
Auto configuration DHCP	<input checked="" type="checkbox"/>
DHCP fallback	<input type="checkbox"/>
DHCP timeout (seconds)	50
<b>APPLY</b> <b>CANCEL</b>	

4. To configure a WLAN profile manually, edit the following fields:

Option	Description
Profile name	Name for the new WLAN profile  The character string (U) is appended to a user-defined profile. For profiles defined in the Scout Enterprise Console, the string (S) is appended.
Connect automatically	If the signal strength is sufficient, the device automatically attempts to connect to this WLAN.
SSID	Name of the WLAN
Timeout	Time period in seconds for establishing the connection
Channel	Is selected automatically by default
Security protocol	Authentication type
Password	Password or security key
Auto-configuration DHCP	Integration into existing network via DHCP
DHCP fallback	If DHCP fails on startup, the settings are used unless the lease has expired.
DHCP timeout	Time period in seconds for the DHCP request
Use proxy <sup>1</sup>	The proxy setting you define here is used by the <code>System proxy</code> option in the browser application definition.  For further information, see <a href="#">Proxy configuration</a> .
Internet connection test <sup>2</sup>	Each time a connection is set up, the system can check whether addresses on the Internet can be reached. Without connectivity, the system then checks for the existence of a captive portal and, if available, redirects to it. For <code>automatic</code> (default), the connection test is performed unless a central system proxy is defined.

- If you connect to an existing WLAN, most of the information is read-only. To connect, enter the password or security key.
- Confirm with **Apply**.

When connected to a WLAN, the system bar shows a WiFi icon  which roughly reflects the signal strength.

► Click the WiFi icon to display further information.

For further information, see [Live information](#).

<sup>1</sup>for eLux RP 6.5 and later versions

<sup>2</sup>from Scout Enterprise Management Suite 15.9

### 7.5.3. Adding a VPN profile

**Note**

The **VPN** tab is only shown if the relevant software is installed on the client.

As VPN clients Cisco AnyConnect and OpenVPN are supported.

1. In the configuration panel, open the **Network** dialog. Then under **Network connections**, select the **VPN** tab. <sup>1</sup>
2. Click **+ Add VPN profile**.

The screenshot shows a 'Network configuration' dialog box. At the top is a header bar with the text 'Network configuration' and an upward-pointing arrow. Below this are several configuration fields: 'Profile name' with the value 'VPN1' and an asterisk; 'Type\*' with the value 'OpenVPN' and a three-dot menu icon; 'Connect automatically' with a toggle switch turned on; 'Configuration file' with an asterisk and a folder icon; 'Use proxy' with a toggle switch turned on; and 'Proxy settings' with a downward-pointing arrow. At the bottom of the dialog are two buttons: 'APPLY' and 'CANCEL'.

<sup>1</sup>for eLux RP 6.4 früherand earlier versions in a separate dialog

- 
3. Edit the following options:

Option	Description
Profile name	Name for the new VPN profile  The character string (U) is appended to a user-defined profile. For profiles defined in the Scout Enterprise Console, the string (S) is appended.
VPN application type	Select <code>Cisco</code> <code>AnyConnect</code> or <code>OpenVPN</code>
Connect automatically	The VPN client is started automatically on each device restart.
Configuration file	Depending on the VPN application used, the client devices must have a configuration file. Select the relevant configuration file.
Use proxy <sup>1</sup>	The proxy setting you define here is used by the <code>System proxy</code> option in the browser application definition.  For further information, see <a href="#">Proxy configuration</a> .

---

4. Confirm with **Apply**.

For further information, see [VPN](#) in the **Scout Enterprise** guide.

#### 7.5.4. Adding a WWAN profile

– for eLux RP 6.5 and later versions –

If your mobile device has an appropriate SIM card, you can connect to a wireless wide area network. This can be cellular data networks such as LTE or UMTS.

1. In the Configuration panel, open the **Network** dialog. Then under **Network connections**, select the **WWAN** tab.
2. Click **+ Add WWAN profile**.

---

<sup>1</sup>for eLux RP 6.5 and later versions

3. Edit the following options:

Option	Description
Profile name	Name for the new WWAN profile  The character string (U) is appended to a user-defined profile. For profiles defined in the Scout Enterprise Console, the string (S) is appended.
Connect automatically	If the signal strength is sufficient, the device automatically attempts to connect to the WWAN.
Roaming	The cellular data connection stays on when your device is outside your mobile operator's network.
PIN	PIN of the SIM card (if used)  If you leave the field empty and the SIM card requires a PIN, the PIN will be requested on each connection setup. <sup>1</sup>
APN	Access Point Name: Address used to connect to the Internet when using your cellular data connection
Username	Username for your mobile account
Password	Password for your mobile account

4. Confirm with **Apply**.

<sup>1</sup>To define PIN settings for your SIM card, use a mobile device such as a smart phone.

When connected to a WWAN, the system bar shows a WWAN icon



which roughly reflects the signal strength.

- ▶ Click the WWAN icon to display further information.

For further information, see [Live information](#).

### 7.5.5. Proxy configuration

For each network profile, you can define a proxy server to be used by the web clients or browsers. The proxy server can be configured manually or automatically.

If you define the proxy server centrally in the device configuration, it can be accessed from all application definitions (browsers). This central **system proxy**<sup>1</sup> contains the proxy setting which can be a fixed server setting, automatically determined, or simply `No Proxy`.

Using an automatic WPAD configuration, all web clients of an organization can then be configured easily to the same proxy server or servers.

For the **system proxy** setting, in the network profiles, the options described below are available.

- Scout Enterprise Console: **Network > Advanced**
- eLux RP 6: **Network configuration > Advanced > Use proxy > Proxy settings**

Option	Description
No proxy	No proxy server is used
Manual (Proxy:Port)	Specify fixed proxy server with port number Example: <code>proxy.sampletec-01.com:3800</code>  To define destinations that you do not want to access via proxy, in the <b>Proxy exception list</b> , enter the relevant network addresses separated by semicolons.
Auto (URL)	Proxy auto-config (PAC): Determines the appropriate proxy for each URL  Examples: <code>http://proxy.sampletec-01.com/proxy.pac</code> <code>http://wpad.sampletec-01.com/wpad.dat</code>
Pass-through logon for proxy (with AD user authentication) <sup>2</sup>	If a central <b>system proxy</b> is configured with AD authentication, the AD logon data are used for authentication.  Proxy authentication may be required if you use browser content redirection under Citrix.

<sup>1</sup>for Scout Enterprise Management Suite 15.5 and later versions

<sup>2</sup>from Scout Enterprise Management Suite 15.8 and eLux RP 6.7



Option	Description
Proxy username <sup>1</sup>	Username for authentication on the system proxy
Proxy password <sup>2</sup>	Password for authentication on the system proxy

**Note**

When you define a browser application, the default proxy setting is `Use system proxy`. The proxy setting defined in the relevant network profile is now active. For further information, see [Defining a browser application](#).

---

<sup>1</sup>from Scout Enterprise Management Suite 15.8 and eLux RP 6.7

<sup>2</sup>from Scout Enterprise Management Suite 15.8 and eLux RP 6.7

## 7.6. Information dialog

Information
MAC address 901B0ED8750E
IP 192.168.52.130
Name eLux4423-8260-4811
Serial number YLUE112193
Installed image [redacted].idf
Scout Enterprise Server [redacted]
Info1 Test-Client
Info2
Info3

[VIEW SYSTEM INFO](#)

Option	Description
MAC address	MAC address of the device
IP address	IP address of the device
Name	Host name of the device
Serial number	Serial number of the device
Installed image	Name of the currently installed IDF
Scout Enterprise Server	Scout Enterprise-Server that manages the device
Info1-3	The <b>Info</b> fields can be edited by the users if they have the relevant user right. They are already provided in the First Configuration Wizard.

Option	Description
Logged-on user (with AD user authentication)	Username of the logged-on user

### Opening the Information dialog via key combination

- ▶ Press WINDOWS+ALT+I.



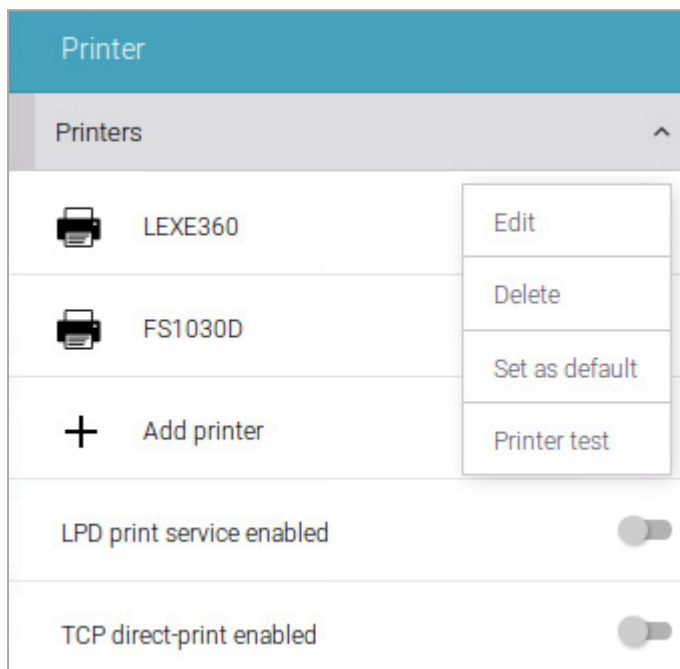
#### Note

The **Information** dialog can be hidden via the user rights.<sup>1</sup>

---

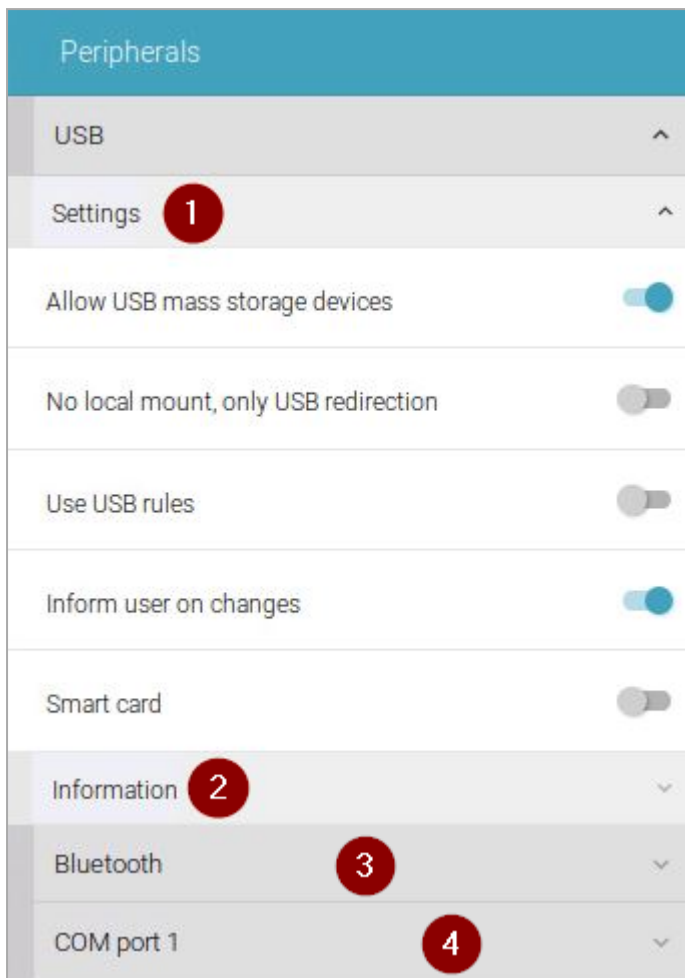
<sup>1</sup>for eLux RP 6.5 and later versions

## 7.7. Printer dialog



Option	Description
Edit (defined printer)	Opens the <b>Editing printer</b> dialog for the selected printer
Delete (defined printer)	Deletes the selected printer
Set as default (defined printer)	Defines the selected printer as the default printer
Printer test (defined printer)	A test page is printed on the selected printer.
+ Add printer	Opens the <b>Adding new printer</b> dialog For further information on configuring printers, see <a href="#">Device configuration for eLux RP 5</a> .
LPD print service	Allows you to share defined printers with other systems via LPD (within the network)
TCP direct print	Select to receive the print data directly via TCP/IP and send it to the printer port (no print formatting, no spooling of print jobs)

## 7.8. Peripherals dialog



### Legend to numbers

- 1 The **USB** section is divided into **Settings** and **Information**.<sup>1</sup> The individual USB settings are described below.
- 2 Information on all connected USB devices
  - ▶ Expand an entry to view the Product name, Vendor name, Product ID, Vendor ID and USB type.
- 3 Settings for Bluetooth audio devices<sup>2</sup>
- 4 Settings for COM ports such as speed, parity, stop bits

Option	Description
Allow USB mass storage devices	Allows the use of connected USB mass storage devices If the local use of USB devices via mountpoints is allowed, connected USB devices are shown on the system bar as live information. <sup>3</sup> Use the USB icon to remove a USB device safely.
No local mount, only USB redirection	Restricts the use of USB mass storage devices to USB redirection within configured sessions on a backend. There are no mount points provided to use USB mass storage devices locally on the eLux client.

<sup>1</sup>for eLux RP 6.4 and later versions

<sup>2</sup>for eLux RP 6.6 and later versions

<sup>3</sup>for eLux RP 6.4 and later versions

Option	Description
Use USB rules	<p>Restricts the use of USB mass storage devices according to defined rules:</p> <p>Using USB mass storage devices can be restricted to devices with specified VID (Vendor ID) and/or PID (Product ID) such as an individual USB stick model. Moreover, the USB rules can be applied to further USB device classes such as smart card readers.</p> <p>USB rules are defined in the Scout Enterprise Console. For further information, see <a href="#">USB rules</a> in the Scout Enterprise guide.</p>
Inform user on changes	When a USB mass storage device is connected, a systray message is displayed.
Smart card	Enables card readers

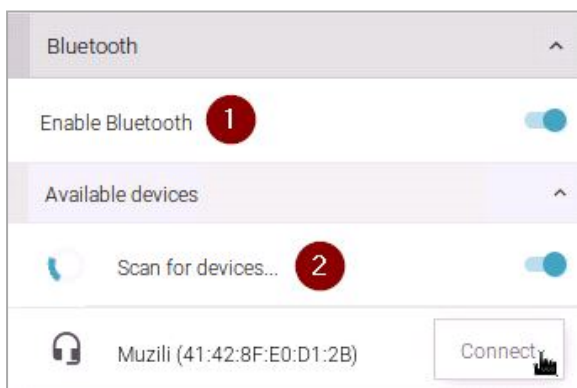


#### Note

To use smart card readers, the relevant middleware must be installed on the clients. For further information, see [USB mass storage devices and card readers](#) in the Scout Enterprise guide.

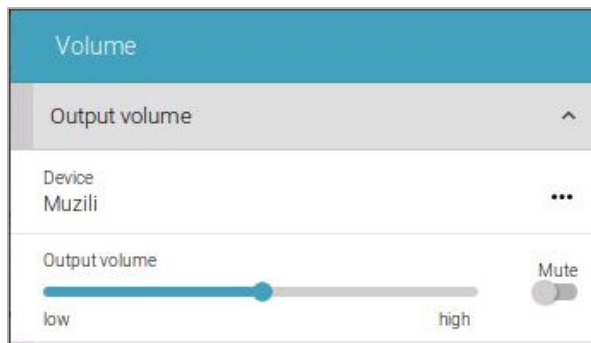
### 7.8.1. Connecting Bluetooth audio devices

1. In the **Peripherals** dialog, under **Bluetooth**, select the **Enable Bluetooth** option.
2. Under **Available devices**, select **Scan for devices**.



3. For the Bluetooth device you want to connect, click **Connect**.

4. To adjust the volume of a connected Bluetooth audio device, use the **Volume** dialog.



## 7.9. Drives dialog

Define shared Windows network directories as drives that the client can access. These drives can be used as storage locations for browser files.

The screenshot shows a dialog box titled 'Drives' with a sub-tab 'Edit CIFS drive'. It contains the following fields and values:

- Local directory: mmi
- Server: storage.int.sampletec-01.de
- Share path: share\users\div
- Username: int\mmi
- Password: (masked with dots)
- Active Directory authentication: (toggle switch is off)

At the bottom, there are two buttons: 'TEST' and 'CANCEL'.

Option	Description
Local directory	Any name for the directory
Server	Name of the server
Share path	Share path with Windows share name
Username	Windows domain and username to access the directory: <Domain\User>
Password	Password to access the directory
Active Directory authentication	The Active Directory logon data are used to access the directory. The <b>Username</b> and <b>Password</b> fields then are hidden.



**Note**

To access network drives with AD authentication, the software package **Network drive share** and the included feature package **Linux Key Management Utilities**<sup>1</sup> must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

Test	Checks whether a connection can be established using the data specified
------	---

*The directory path `/smb/` is automatically added in front of the directory name. The data are available on the local flash drive under `/smb/<Directory name>`.*

Example: `/smb/share`

To make browser settings such as bookmarks permanently available, define a network drive as the browser home directory. For further information, see [Browser home directory](#).

---

<sup>1</sup>for eLux RP 5.3 and later versions

---

### 7.9.1. Browser home directory

By default, the browser settings are temporarily saved to the flash memory. However, they are deleted with each client restart.

If you define a browser home directory on the network, browser settings such as bookmarks can be saved and made available to the user after each client restart. Use a network share that you have configured for access:



#### Requires

Configured Windows network share (**Defined drive**).

Example: `/smb/share`

For further information, see [Defining a network drive](#).

---


### Defining browser home directory



#### Note

The following information refers to Scout Enterprise Management Suite 15.0 and later versions. Documentation for earlier versions can be found in the **Archive** section of the [PDF downloads](#) page.

---

1. In the tree view, for the relevant level, open the  **Applications** context menu and click **Software defaults...**  
For further information, see [Defining software defaults](#).
2. In the list-field, select the relevant browser and click **Edit**.
3. In the **Browser home directory** field, enter the name of one of the defined drives in **Device configuration<sup>1</sup> > Drives**. The name must correspond to the name on the list.  
Example: `/smb/share`
4. Confirm with **OK**.

*The browser settings are saved to the specified Windows directory.*

---

<sup>1</sup>formerly Setup

### 7.9.2. Mount points

Mount points are used to access local resources through an application. The following mount points are provided by eLux:

---

Samba	/smb
NFS	/nfs
Internal CD-ROM	/media/cdrom
USB devices	/media/usbdisk*

---

\*For USB devices, mount points are assigned chronologically: The first device is assigned /media/usbdisk, the second one media/usbdisk0, etc.

Mounted devices are shown in the systray (eLux RP 5) or as live information (eLux RP 6).



#### Note

Due to security reasons, the **Allow mass storage devices** must be selected on the **Hardware** tab.<sup>1</sup>

---

For managed eLux RP 5 clients, in the Scout Enterprise Console, the display can be disabled with the relevant device configuration option under **Desktop > Advanced > Taskbar**.



#### Note

Drive mapping for access to local resources must be defined in the relevant application definition. For Citrix ICA applications see [ICA software defaults](#). For RDP applications see [Advanced application settings](#).

---



---

<sup>1</sup>for eLux RP 6.2 and later versions: Peripherals tab

---

## 7.10. Firmware dialog

The **Firmware** dialog allows you to configure the firmware update settings for software updates of your device.

Firmware	
Protocol	HTTP <span>...</span>
Server	webserv.int.sampletec-01.com *
Path	eluxng/UC_RP6_X64 *
Image definition file	recovery-6.3.0-5.idf *
Proxy	
Username	
Password	
Check for new version ^	
On start	<input type="checkbox"/>
On shutdown	<input type="checkbox"/>
Check signatures before update ^	
Image definition file	<input type="checkbox"/>
eLux software packages	<input type="checkbox"/>
<span>APPLY</span> <span>CANCEL</span>	

For further information on performing a firmware update, see [eLux commands](#).

### 7.10.1. Configuring firmware updates



#### Note

The fields **Protocol**, **Server**, **Path** and **Image file** are used to build a URL used by the clients for firmware updates. The URL address is displayed below the **Path** field.

1. For the relevant device or OU, in the Scout Enterprise Console, open **Device configuration**<sup>1</sup> > **Firmware**. For eLux RP 6 clients, in the **Configuration panel**, select **Firmware**.<sup>2</sup>
2. Edit the following fields:

Option	Description
Protocol	Network protocol of the web server for software package transfer to the clients (HTTP, HTTPS, FTP, FTPS)
Server	Name (FQDN) or IP address of the web server containing the eLux software packages and the image definition file
Proxy (optional)	<p>IP address and port number (3128) of the proxy server</p> <p>Format: IP address:port</p> <p>Example: 192.168.10.100:3128</p> <p>For Scout Enterprise Management Suite 15.3 and later versions, you can set a role for the static proxy (Provider/Consumer) or choose the entry <i>Dynamic</i>.</p>
User and Password (optional)	Username and password (if required) to access to the eLux software container of the web server
Path	<p>Directory path of eLux software packages on the web server / FTP server</p> <p>Use slashes / to separate directories.</p> <p>Example: Use <code>eluxng/UC_RP6</code> to refer to the IIS web server directory <code>W:\inetpub\wwwroot\eluxng\UC_RP6\</code></p> <p>If you use ELIAS 18, specify the path name defined during the ELIAS 18 installation.</p> <p>Example: <code>elias/UC_PR6_X64</code></p> <p>If you use more than one eLux version, use the <a href="#">container macro</a> to parametrize the container directory.</p>

<sup>1</sup>formerly Setup

<sup>2</sup>for eLux RP 5: **Control panel** > **Firmware**.

Option	Description
Image file	<p>Name of the image definition file (IDF) on the web server which is used for firmware updates</p> <p>Depending on the object rights, an IDF name can be entered or an IDF is selected from the list-field. For further information, see <a href="#">Allocation of the image definition file</a>.</p> <p>If you have UEFI devices and non-UEFI devices, use the <a href="#">Base System macro</a> within the IDF name.</p>
Check for new version on start / shutdown	<p>The Thin Client checks during start or shutdown whether any firmware updates are available and necessary.</p> <p>To allow the user to decline the update, select <b>Update confirmation necessary</b>.</p>
<b>Elias...</b> button	Starts the ELIAS tool and opens the image definition file indicated in the <b>Image file</b> field
<b>Security...</b> button	The <b>Security settings</b> allow you to define a signature check before update through the client. Signature checks can be performed for the image definition files and/or eLux software packages.
<b>Reminder...</b> button	<p>The <b>Reminder Settings</b> allow you to define whether a user is allowed to defer a firmware update and for how long. Moreover, you can specify time intervals for the update reminder.</p> <p>For further information, see <a href="#">Update deferment by user</a>.</p>

- Test the **Firmware** settings on a client. To do so, on the eLux RP 6 client, on the extended **Command panel** of the system bar, click **Update**. On the eLux RP 5 client, in the control panel under **Setup > Firmware**, click **Update**. For further information, see [Updating the firmware](#) in the eLux guide.

*If the settings have been defined correctly, a connection to the Scout Enterprise Server is set up to check whether an update is necessary.*

### 7.10.2. Firmware security through signature

You can configure the firmware configuration in the Scout Enterprise Console or on the client to have the client check signatures each time before an update is performed. An update is then only performed if the signature of the image definition file (IDF) and/or the signature of the eLux software packages have been successfully verified. The update cannot be run, however, if the IDF or one of the eLux software packages to be installed does not have a valid or verifiable signature.

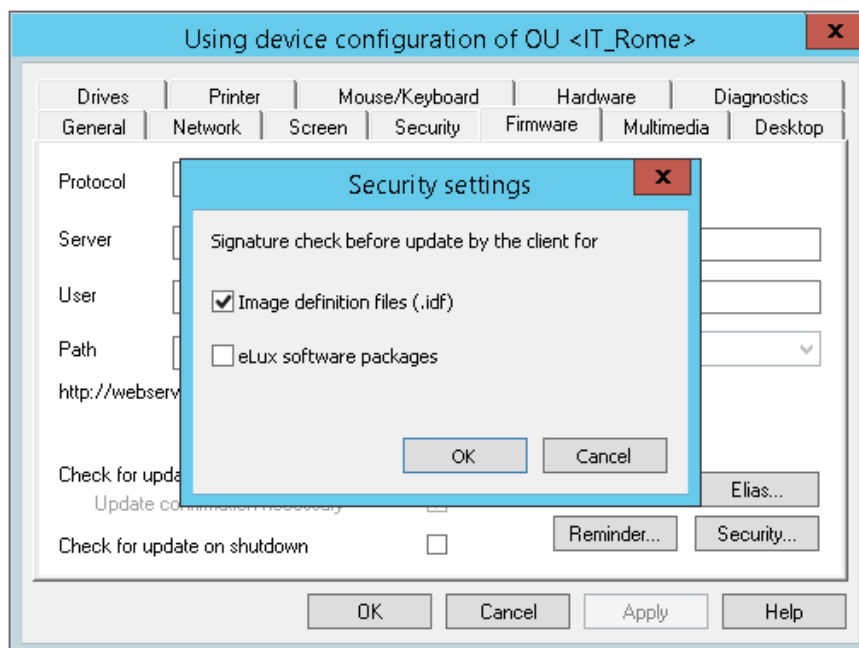


#### Important

A signature check of eLux software packages requires an update partition on the client computer. On devices without an update partition, signatures can only be checked for image definition files but not for eLux software packages. For further information on update partitions, see [eLux partitions](#).

### Activating signature check

1. In the Scout Enterprise Console, under **Device configuration**<sup>1</sup> > **Firmware**, click **Security....** On the eLux RP 6 client, select **Configuration panel** > **Firmware** > **Check signatures before update**.



2. Under **Signature check before update**, select the **Image definition file** option and/or the **eLux software packages** option.
3. Confirm with **OK** and **Apply**.



#### Note

In eLux, both options are provided on the **Firmware** tab or in the **Firmware** dialog.

<sup>1</sup>formerly Setup

---

*The signature verification results are documented in the update log file on the client. After an update has been performed, the update log file is sent to the Scout Enterprise Server. To view it for the selected device, in the **Properties** window, double-click the **Update status** field.*

## Certificates

Verifying the IDF signature on the client side requires the root certificate, but also the signature certificate in the local client directory `/setup/cacerts`. If you use own certificates for signing IDFs or individually composed eLux packages, you can configure their transfer. To do so, use the Scout Enterprise feature **Files configured for transfer**. For eLux packages provided by Unicon, all required certificates are included in the BaseOS.

For further information on how to create IDF signatures, see [Signing an image](#) in the **ELIAS** guide.



### 7.11. Diagnostics dialog

The following diagnostic options are provided:

- Enhanced log level: Configuration and log files are retrieved to a greater extent
- Additional diagnostics by creating screenshots or adding further freely selectable files
- Displaying or sending relevant files to FTP server, Scout Enterprise Server or data medium
- Ping command to check connectivity and latency in your network

The screenshot shows a 'Diagnostics' dialog box. It has a teal header. Below it, 'Log level' is set to 'Enhanced' with a three-dot menu icon. A grey bar separates this from 'Additional diagnostic options', which has an upward arrow icon. Below that, 'Send to' is set to 'File system' with a three-dot menu icon. The 'Screenshot' section has a toggle switch and the text 'Create with 5s delay'. The 'User file' section has a toggle switch. The 'Directory' section shows '/media/usbdisk' with a folder icon. At the bottom, there are two buttons: 'PING' and 'EXECUTE'.

Option	Description
Log level	<p>Choose between <code>Standard</code> and <code>Enhanced</code> for different amounts of configuration and log files.</p> <p>Use the <code>Enhanced</code> log level only temporarily, otherwise you risk exceeding the flash memory capacity of your Thin Client.</p>

Option	Description
Send to	Configure the destination: Where do you want to send the files?
Display	Opens the <b>Log Viewer</b> window in eLux showing various diagnostic files with their contents
FTP address	Files are saved to an FTP server Specify the address under <b>FTP address</b> .
Scout Enterprise Server	Files are saved to the Scout Enterprise Server by default under  <code>%USERPROFILE%\Documents\UniCon\Scout\Console\Diag</code>
File system	Files are saved to a local data medium or USB device.

The following options are only visible after you have chosen a destination (except `Display`):

Screenshot (only if destination $\neq$ <code>Display</code> )	After you click <b>Execute</b> , with a 5 second delay, a screenshot is taken and transmitted with the diagnostic files. Screenshots are created as <code>.png</code> files under <code>/tmp</code> .
User file (only if destination $\neq$ <code>Display</code> )	The user can select a local file to be transmitted with the diagnostic files.
Directory / server address (only if destination $\neq$ <code>Display</code> )	File system directory or server address (Scout Enterprise Server or FTP-Server) for transmission of the diagnostic files
PING	Allows users to ping any host (IP address or FQDN) <sup>1</sup>
Execute	Displays or sends the selected amount of diagnostic files to the configured destination

If the destination is not `Display`, the diagnostic files are organized in directories such as `setup`, `var`, `tmp` and sent in a `.zip` file.



#### Note

The `systemd-journal.log` (Enhanced log level) logs network activities.<sup>2</sup>

<sup>1</sup>From Scout Enterprise 15.7 and eLux RP 6.7, the user right for the ping command can be set independently of the other diagnostic functions.

<sup>2</sup>for eLux RP 6.4 and later versions

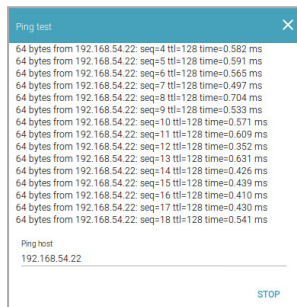
### 7.11.1. Performing ping command



#### Requires

User right for executing the diagnostics feature / ping command<sup>1</sup>

1. Under **Diagnostics**, click **PING**.
2. In the **Ping test** window, type the name or IP address of the server you want to connect with.
3. Click **Start**.



*The client connects to the server and executes the ping command until you click **Stop**.*

4. Click **Stop**.

<sup>1</sup>From Scout Enterprise 15.7 and eLux RP 6.7, the user right for the ping command can be set independently of the other diagnostic functions.

## 7.12. Date and time dialog

Date and time

Auto-configuration via NTP

Time server host name

ntp.sampletec-02.com

Time zone

Zone

Europe

Region

Berlin

Option	Description
Auto-configuration via NTP	Date and time are determined and displayed automatically via NTP (Network Time Protocol). The service runs on UDP port 123.
Time server	Host name of the NTP server
Time zone	For each level, select the time zone.

### 7.13. Desktop dialog

Desktop	
Language English (US)	...
Keys to switch applications Alt + Ctrl +	...
Desktop background color #004080	
Desktop font color #546e7a	
<b>System bar</b> ^	
Desktop	<input checked="" type="checkbox"/>
Clock	<input checked="" type="checkbox"/>
Show Configuration panel	<input checked="" type="checkbox"/>

Option	Description
Language	<p>Language for displaying desktop elements and configuration</p> <p>The following languages are supported: English, German, French<sup>1</sup> and Spanish<sup>2</sup></p> <p>Applications are also started in the configured language but must be compatible with it in order to run correctly.</p>
Keys to switch applications	<p>Key combination to switch between applications or sessions</p> <p>The default is <code>ALT+CTRL+↑</code> to avoid conflicts with <code>ALT+TAB</code> which is used to switch between the tasks within a session.</p>
Keys to lock screen <sup>3</sup> (AD users)	<p>Key combination to activate password-protected screen saver</p> <p>Default: <code>&lt;Ctrl&gt;&lt;Alt&gt;End</code></p>

<sup>1</sup>for eLux RP 6.9 and later versions

<sup>2</sup>for eLux RP 6.9 and later versions

<sup>3</sup>for eLux RP 6.9 and later versions

Option	Description
Keys to log off <sup>1</sup> (AD users)	Key combination to log off current user The logon dialog is then displayed.
Desktop back- ground color	Text field for the background color, can be entered as a hexadecimal value or as a CSS color name  Example: #FF0000 or gold
System bar	Display options for the system bar



### Important

If you hide the Configuration panel, you cannot access the configuration any longer. Neither can you unlock the configuration panel with the device password. You need to synchronize the configuration data to the server-side settings or perform a factory reset. For further information, see [eLux commands](#).

Hide configuration shortcuts <sup>2</sup>	Clear this option to configure which configuration shortcuts are shown on the system bar.
--	---

For further information on how to define keyboard shortcuts, see [Defining keyboard shortcuts](#) in the **Scout Enterprise** guide.

<sup>1</sup>for eLux RP 6.9 and later versions

<sup>2</sup>eLux RP 6.2 and 6.3 only

## 7.14. Security dialog

In the **Security** dialog, you can change the device password, configure user rights and set user authentication.

Option	Description
Allow remote X11 clients	Displays X11 applications running on remote systems on the client
Device password	Important: If you change the device password locally, the client can no longer be managed through the Scout Enterprise Console.
User rights	Allows you to configure eLux user rights for device configuration, application definition and some general eLux functions
User authentication	Allows you to configure access rights for example via AD

---

### 7.14.1. Changing user rights

The eLux RP 5 client contains a **Setup** tab for device configuration and a **Configuration** tab with application definitions for the applications installed in the control panel. In version 6.3 and later versions, the device configuration and application definitions are located in the **Configuration panel**.

To prevent users from configuring defective or unwanted settings locally on the client, you can disable or restrict the user rights for individual features. Additionally, some general features such as **Log off** are provided. Each feature can be enabled or disabled.

Functions and options that you disable are displayed as dimmed on the client.



#### Note

If you allow local device configuration for some features, you can prevent the relevant fields and sections from being overridden by updating Scout Enterprise configuration data. For further information, see [Supporting local device configuration](#).

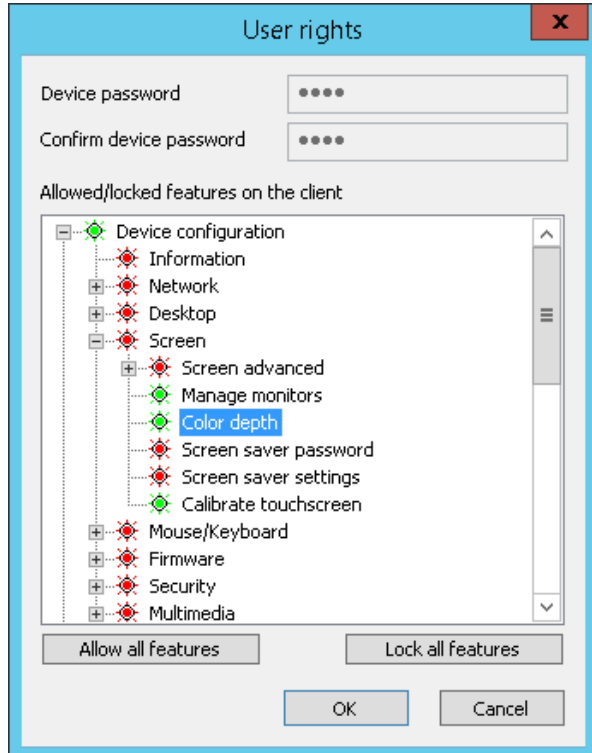
---

User rights can be configured for OUs and for individual devices, even for individual fields. For example, for security reasons, you might want to disable all tabs, but enable specific options such as some screen settings.

### Modifying user rights for device configuration

1. On the **Security** tab, under **Local Security**, click **User rights**.

On the eLux RP 6 client, in the Configuration panel, click **Security > User rights**.





The **Device configuration**<sup>1</sup> node refers to the clients' device configuration and its structure corresponds to the tabs and fields of the eLux control panel (eLux RP 5) or Configuration panel (eLux RP 6).

In addition, among the user rights under **Security > Scout settings**,<sup>2</sup> you can find the options for the fields **Info1**, **Info2** and **Info3**. These fields are shown in the Scout Enterprise Console in the **Properties** window of a device and on the client in the **Configuration panel** under **Information** (eLux RP 6).<sup>3,4</sup>

2. Expand the nodes below **Device configuration**<sup>5</sup> as required.
3. To modify the status of the relevant features, double-click them or press the SPACE key.  
On the eLux RP 6 client, click the relevant option to switch between `modifiable` and `hidden`.

*In the Scout Enterprise Console and on the eLux RP 5 client, allowed features are displayed in green, locked features are displayed in red.*

*Modified user rights become active on the next restart of the client.*

## Modifying user rights for application definitions

1. On the **Security** tab, under **Local Security**, click **User rights**.  
On the eLux RP 6 client, in the Configuration panel, click **Security > User rights**.
2. To modify the status of the features subordinate to **Application definition**<sup>6</sup>, double-click them or press the SPACE key, depending on whether the users are allowed to create, edit or delete an application definition.  
On the eLux RP 6 client, click the relevant option to switch between `modifiable` and `hidden`.
3. If you lock the **Application definition**<sup>7</sup> node, on the client, the **Configuration** tab of the control panel (eLux RP 5) or the **Application definition** tab of the Configuration panel (eLux RP 6) is disabled and the users cannot view the application definitions.



### Note

If you protect `local configuration` and decide to lock the three application features, we recommend that you also lock the **Application definition**<sup>8</sup> node to ensure that the application definition data are updated correctly.

<sup>1</sup>formerly Setup

<sup>2</sup>am RP 6-Client unter Sicherheit > Info 1-3

<sup>3</sup>for eLux RP 5 in the systray under Device information

<sup>4</sup>For eLux RP 6.5 and later versions, only one user right is used for all tree Info fields (Security > Info1-3).

<sup>5</sup>formerly Setup

<sup>6</sup>formerly **Configuration**

<sup>7</sup>formerly **Configuration**

<sup>8</sup>formerly **Configuration**

---

*In the Scout Enterprise Console and on the eLux RP 5 client, allowed features are displayed in green, locked features are displayed in red.*

*Modified user rights become active on the next restart of the client.*

### 7.14.2. Configuring user authentication



#### Note

The eLux package **User authentication modules** must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

1. On the **Security** tab, under **User authentication**,<sup>1</sup> choose from the following authentication methods.

None	Disables user authentication
Active Directory	Active Directory (Microsoft directory service)
AD + smart card	Smart card with Active Directory

On the eLux RP 6 client, under **Security > User authentication**, enable user authentication. Then under **Authentication type**, choose between `Active Directory` and `AD + smart card`.

2. Click **Edit**.<sup>2</sup> Specify the server, server list or domains.  
If required, define user variables. For further information, see [User variables](#).  
Confirm with **Apply** and **OK**.
3. To help users log on quickly, select the **Show last user** option.
4. In the **Domain field** list, choose whether you want to allow users to modify the specified domain or whether you want to hide it.
5. For eLux RP 6.2 and earlier versions, you can select the option **Password protection for screen saver**. For eLux RP 6.3 and later versions, the screen saver is automatically protected by password if user authentication is enabled.
6. Confirm with **OK**.

*If you have enabled user authentication, the username and password are requested when the users log on after the next restart.*



#### Note

For devices that are not managed by Scout Enterprise, the administrator can log on with the username `LocalLogin` and device password to correct any settings, if required.

<sup>1</sup>formerly Access authorization

<sup>2</sup>On the eLux RP 6 client, you find all options in the same dialog.

---

## Active Directory (AD)

You can define multiple domains that can be displayed with friendly names. In the client logon dialog, users can then choose between default and alternative domains.



### Note

To enable users to log on to different domains, the following software packages must be installed on the clients:

User authentication modules  $\geq$  3.0.0-8

Security libraries  $\geq$  1.6.0.2-2

BaseOS eLux RP  $\geq$  5.4.0-1

---

## AD directory tab



Click **Add** to create one or more entries. Then edit the entry (F2 or double-click).

Option	Description
Name (optional)	Display name for the domain
Server, server list or domain	<p>IP address or name of the domain controller</p> <p>To specify more than one domain/server, separate them by spaces.</p> <p>Example:</p> <pre>int.sampletec-01.com dev.sampletec-01.com</pre> <p>If the server is not located in the same subnet as the client, enter the fully qualified domain name (FQDN).</p> <p>If you define more than one domain, the user can choose from a list. The domains are shown with their display name. The first entry is the default domain in the AD logon dialog on the client. You can define applications to be shown only in one of the domains.</p>

---



### Note

We recommend using a Windows time server. If the system time of the domain controller and client differ, Active Directory queries cannot be run successfully.

---

## User variables tab

Based on LDAP attributes, you can define local variables and use them in the device configuration and application definition. For further information, see [User variables](#).

## Server profile tab (only Scout Enterprise)

The **Use server profile** option bundles and stores user profile data (only data that are not managed by Scout Enterprise) on the server when the user logs off. On the next logon, these data are restored. This

feature helps provide users with their user data independently of the device they use. The profile directory must be defined in the AD in the UNC format.

## Automated logon tab

– from Scout Enterprise 15.9 –

By using predefined logon data, terminals can, for example, run in kiosk mode under an AD service account.

Username, password and domain can be set as variables.

## Active Directory + Smart card



### Note

To enable users to use smart card readers, ensure to install the relevant middleware on the clients. **sc/interface** by Cryptovision is smart card middleware that integrates smart cards and other smart tokens into IT environments. sc/interface supports more than 90 different smart card profiles. For further information, see the Cryptovision web page.

To use **sc/interface**, the eLux package **Cryptovision sc/interface PKCS11** must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

## Smart card tab

Option	Description
Behaviour of smart card on removal	If you choose <b>Lock screen</b> , ensure that, in the <b>Screen saver</b> settings, the <b>Password protected</b> option is selected. <sup>1</sup>
Allow logon with username+password	Smart card application allows user/password logon via the ESC key (eLux RP 5) or the <b>Username &amp; Password</b> link (eLux RP 6).
Show Username+password dialog by default <sup>2</sup>	Logon via username + password can be forced despite smart card configuration.  This option requires <b>Allow logon with username+password</b> to be enabled.

## Certificate tab

Certificate-based log-on requires verification of the user certificate against the root certificate.

- ▶ Select one or more root certificates, and then click **Add....**

*The selected certificates are transferred to the client.*

<sup>1</sup>automatically set for eLux RP 6.3 and later versions

<sup>2</sup>for Scout Enterprise Management Suite 15.5 / eLux RP 6.6 and later versions

---

## User variables tab

Based on LDAP attributes, you can define local variables and use them in the device configuration and application definition. For further information, see [User variables](#).

For the **AD directory**, **Server profile** and **Automated logon** tabs, see [Active Directory \(AD\)](#).

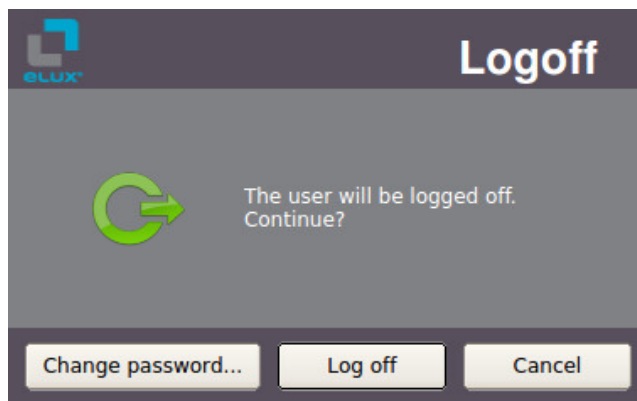
## Additional options for AD users

If Active Directory is used for user authentication, users log on with their AD domain account and password on the client. Passthrough logon is supported by applications which provide access to back-end systems (Citrix, RDP, VMware).

On the client, the logged-on user is shown in the Configuration panel under **Information**.<sup>1</sup>

## Change password

To change password, users can use the eLux command **Logoff** (eLux RP 6) or the **Shutdown** button of the control panel (eLux RP 5).



eLux RP 6



eLux RP 5

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<sup>1</sup>for eLux RP 6.4 and later versions

### 7.15. Scout Enterprise dialog

Under **OU assignment**, you configure the connection to an OU of the managing Scout Enterprise Server. The Scout Enterprise Server address can be found in the **Information** dialog.

Option	Description
OU level 1	Select the relevant top-level OU
OU level X	For each level, select the relevant parent OU.
Password	If an OU is password-protected, you must enter the password before you can assign a device to it.

### 7.15.1. Mirror settings

The settings for mirroring are part of the device configuration and are located in the configuration panel under **Scout Enterprise**.<sup>1</sup>

Mirror settings

Enabled ☒

Password

Read-only access ☐

User must confirm ☒

Encrypted transmission ☐

Allow from Scout Enterprise only ☒

Transfer mirror information ☐

APPLY CANCEL

Option	Description
Enabled	Mirroring must be enabled before a mirror session can be started.
Password (optional)	If you define a mirror password, to start a mirror session, the administrator must enter the password. The device can only be mirrored by persons who know the password.  The password must have 6 characters minimum and 8 characters maximum.
Read-only access	Allows the mirroring administrator to read only, not to write
User must confirm	Before a mirror session can be started, the user must confirm.
Encrypted transmission	The mirroring data are transferred using an encrypted connection.

---

<sup>1</sup>for eLux RP 6.2 and later versions



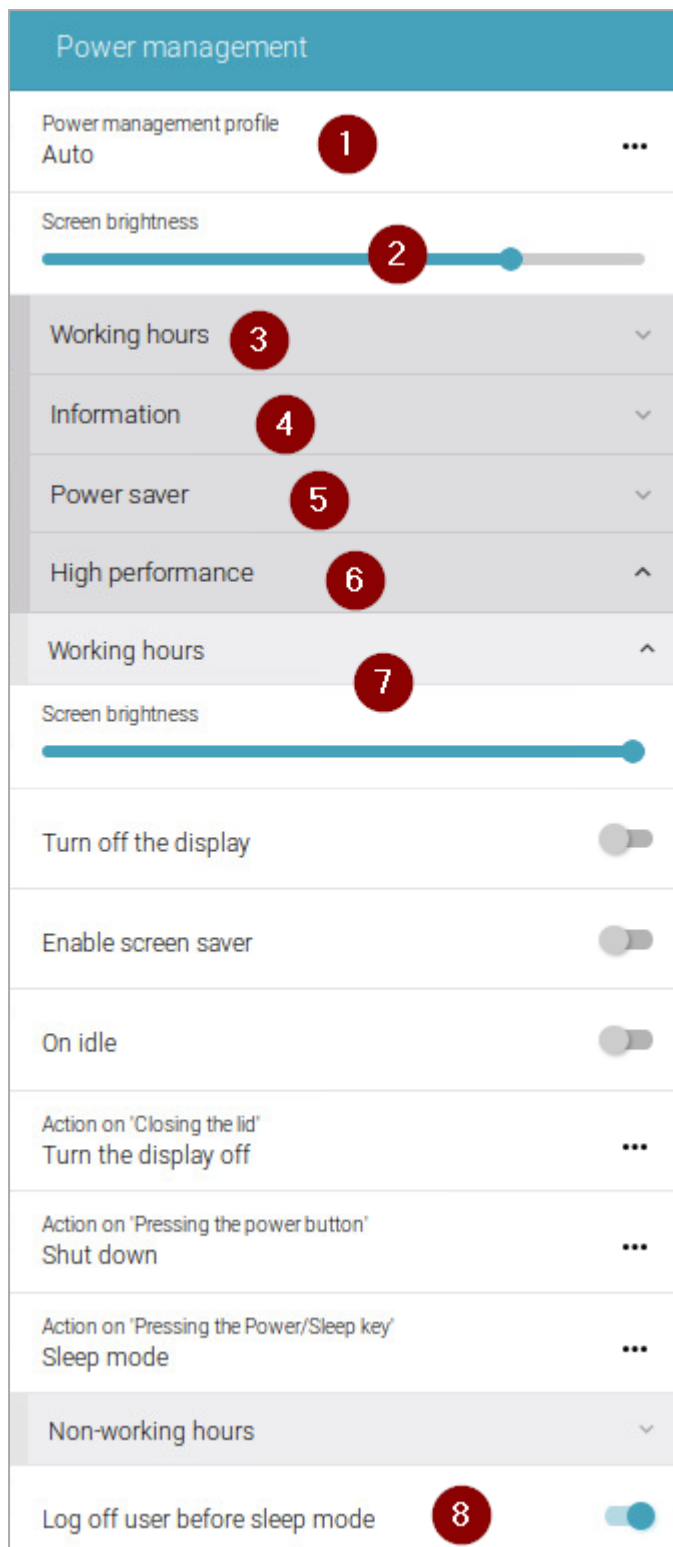
Option	Description
Allow from Scout Enterprise only	Mirroring is only allowed if either the Scout Enterprise Console or the Scout Enterprise Mirror App is used.
Transfer mirror information	The mirror session is logged.

**Note**

The user can cancel a mirror session at any time. During the entire session, a message is shown to inform the user about the current mirror session.

In a mirror session, the keyboard layout of the local system takes precedence.

## 7.16. Power management dialog



### Legend to numbers

- 1 Selecting one of the options, enables the relevant profile:  
  
High performance profile or  
Power saver profile or  
Auto option  
  
Auto enables High performance if the device is plugged in and enables Power saver if the device is on battery power.
- 2 The screen brightness can be set irrespective of the profile.
- 3 In order to distinguish between inside and outside working hours in the profiles, the working hours must be defined.<sup>1</sup>
- 4 Currently active profile
- 5 Settings for the **Power saver** profile  
Click to view options.
- 6 Settings for the **High performance** profile (expanded in the screenshot)
- 7 Settings for **High performance / working hours** (shown in the screenshot)<sup>2</sup>
- 8 When the computer wakes from sleep, the user must log on again.<sup>3</sup>

<sup>1</sup>for eLux RP 6.8 and later versions and Scout Enterprise 15.8

<sup>2</sup>for eLux RP 6.8 and later versions and Scout Enterprise 15.8

<sup>3</sup>for eLux RP 6.7 and later versions

By using profiles, you can pre-define settings for the power management of your computer. These settings become active when you or the system enable the relevant profile:

- **High performance:** Favors performance, but may use more energy
- **Power saver:** Saves energy by reducing the computer's performance and the screen brightness

You can either explicitly activate one of the power management profiles or you can let the system choose by using the **Auto** option: If the device is plugged in, the profile **High performance** will be active. If the device is on battery power, the profile **Power saver** is activated.

To further distinguish between working hours and non-working hours, a total of four profiles are available if working hours have been defined.<sup>1</sup>



#### Note

The sleep mode corresponds to **Suspend to RAM (S3)**. For further information, see [Sleep mode \(Suspend\)](#) in the **Scout Enterprise** guide.

For mobile clients, the System bar shows a battery icon.

- ▶ Click the battery icon to display more information.

For further information, see [Live information](#).

### 7.16.1. Options of a power management profile

- ▶ To edit the options, open the **Power saver** or **High performance** profile.  
If available, subsequently select the subprofile **Working hours** or **Non-working hours**.<sup>2</sup>

Option	Description
Screen brightness	Screen brightness in percent for the selected profile
Turn off the display – after	Determines whether, after a specified number of minutes ( <b>after</b> ), the display is turned off when the user is not using the device (idle state)
Enable screen saver – after	Determines whether, after a specified number of minutes ( <b>after</b> ), the screen saver is enabled when the user is not using the device (idle state)

<sup>1</sup>for eLux RP 6.8 and later versions and Scout Enterprise 15.8

<sup>2</sup>for eLux RP 6.8 and later versions and Scout Enterprise 15.8

Option	Description
On idle – after – after (user logged off) – action	<p>Determines whether, when the device is not used (idle state), after a specified number of minutes (<b>after</b>), the selected <b>action</b> is performed:</p> <p>Shut down Sleep mode</p> <p>When the user is logged off and the device is in idle state, after a specified number of minutes (<b>after (user logged off)</b>), the above selected <b>action</b> is performed.</p>
Action on 'Closing the lid'	<p>Action that is performed when the user is closing the lid:</p> <p>No action Turn the display off Shut down Sleep mode</p>
Action on 'Pressing the power button'	<p>Action that is performed when the user is pressing the power button:</p> <p>No action Turn the display off Shut down Sleep mode</p>
Action on 'Pressing the Power-/Sleep key' <sup>1</sup>	<p>Action that is performed when the user is pressing the Power/Sleep key on their keyboard (requires a suitable keyboard):<sup>2</sup></p> <p>No action Shut down Sleep mode<sup>3</sup></p>



#### Note

The sleep mode corresponds to **Suspend to RAM (S3)**. For further information, see [Sleep mode \(Suspend\)](#) in the **Scout Enterprise** guide.

### 7.16.2. Definition of working hours

– for eLux RP 6.8 and later versions and Scout Enterprise 15.8 –



#### Requires

User right **Define working hours**



To define your working times, open the Configuration Panel and select **Power management > Working hours**.

<sup>1</sup>for eLux RP 6.5 and later versions

<sup>2</sup>If this key is not available, the configuration has no effect.

<sup>3</sup>Default

Option	Description
Monday to Sunday	Specify for each day of the week whether it is a working day.
Start time	Earliest time for the start of work, effective for all specified working days
End time	Latest time for the end of work, effective for all specified working days

---

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## 8. Applications

eLux provides two kinds of applications

- Applications providing access to back-end systems (server-based remote applications)
- Local applications

Thin Clients are mainly used as terminals in server-based computing. **Remote** means that the applications such as Windows applications run on a remote server. Still, client-side software is required to initiate and maintain a session.

By nature, the Thin Client has limited resources, meaning the majority of applications are server-based. However, in addition to server-applications, eLux also offers a variety of local applications. **Local** means the application runs locally on the Thin Client. Local applications include browser software, a local shell (XTerm), and desktop tools.

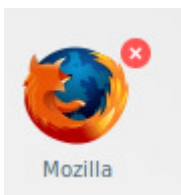
Usually, applications are defined centrally in the Scout Enterprise Management Suite and made available to the clients. Applications can also be defined locally on the client.

The following topics describe how to configure both, applications for connection to a backend and local applications. In addition, further configuration may be required in the application itself. For further information on configuring session clients such as a Citrix client, please consult the manufacturer's product documentation.

### 8.1. Starting and disconnecting applications

#### Using the desktop (eLux RP 6)

- ▶ To start an application, in one of the desktop views, click the application icon.



*At the top right of the application icon, a red close icon (x) is shown.*

#### Disconnecting applications

- ▶ To disconnect an application, click the red close icon at the top right of the application icon  
or  
Open the context menu of the application on the taskbar, and then click **Close**.

For further information, see [Applications in the eLux RP 6 interface](#).

## Using the control panel (eLux RP 5)

In the eLux control panel, on the **Applications** tab, all defined applications are shown along with their type of application and information on their status (active or inactive).

- ▶ To start an application, on the **Applications** tab, select one or more (press CTRL) applications and click **Connect**.  
or  
Double-click the relevant application.

- ▶ To disconnect applications, on the **Applications** tab, select one or more applications and click **Disconnect**.

*When you turn off the device, the remote session and its applications remain active on the server.*

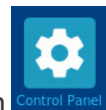


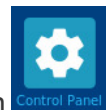
### Note

To close a session completely, the user must log off from it. In addition, the administrator can define a timeout on the server to close any inactive sessions.

## 8.2. Defining applications (eLux RP 5)


Applications can be defined locally on the eLux client, the relevant user rights provided. For eLux RP 6.2 and earlier versions, they are defined in the control panel.



- ▶ To open the control panel, use the Start menu (eLux RP 5) or the desktop icon  (eLux RP 6).



### Note

For centrally managed clients, the administrator can configure in the Scout Enterprise Console, whether the  icon for starting the control panel is displayed. <sup>1</sup>

## Defining new applications

1. In the eLux control panel, click the **Configuration** tab.
2. Click **New**.

*The **Application definition** dialog opens. This dialog provides several tabs, each of them relating to a particular application type.*

3. Click the tab relating to the application you want to define.

*If the relevant application tab is missing, the software package is not installed on the Thin Client.*

---

<sup>1</sup>Scout Enterprise Management Suite 15.2

- 
4. Configure the application. For further information, see [Application properties](#).
  5. Confirm with **Apply** and **Finish**.

## Editing applications

1. In the eLux control panel, select the **Configuration** tab.
2. Select the application you want to edit.
3. Click **Edit**.

*The **Application definition** dialog opens. Depending on the application, different properties can be configured.*

## Deleting applications

1. In the eLux control panel, select the **Configuration** tab.
2. Select the application you want to delete. To select more than one application, press the CTRL key.
3. Click **Delete**.
4. Confirm with **Yes**.

## 8.3. Defining applications (eLux RP 6)

Applications can be defined locally on the eLux client, the relevant user rights provided.

For eLux RP 6.2 and earlier versions, they are defined in the control panel in the same way as for eLux RP 5.

For eLux RP 6.3 and later versions, applications are defined in the Configuration panel.

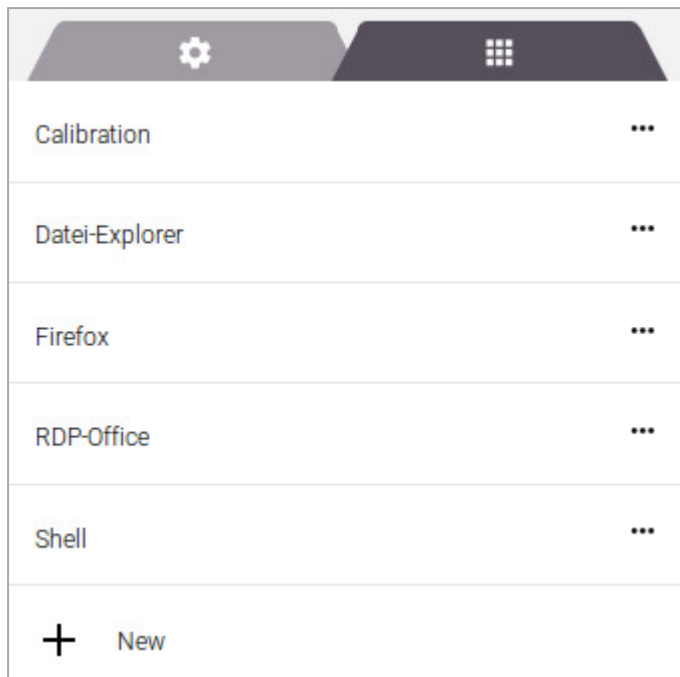
## Defining new applications

1. Open the configuration panel. For further information, see [Configuration panel](#).

2. Click the **Applications** tab .

*The already defined applications are shown in the configuration panel.*





3. Click **+ New**.
4. In the **Add new application** dialog, click **Application type**. From the list, select the required application type.

*If the relevant application tab is missing, the software package is not installed on the Thin Client.*

5. Configure the application.

Under **Properties**, further options are available. For further information, see [Application properties](#).

If you define a local application, under **Properties**, select the application type.

For further information on the definition of individual application types, see [Application definition](#) in the **Scout Enterprise** guide.

For further information on operating, see [Configuration panel](#).

6. Confirm with **Apply**.



#### Note

The application types `ICA`, `Emulation` and `XenDesktop` cannot be used to for defining applications locally on the eLux RP 6 client. To make these applications available on the client, they can be defined in the Scout Enterprise Console.

## Editing applications

1. Open the configuration panel and select the **Applications** tab.
2. Click the application you want to edit.
3. On the context menu, click **Edit**.

---

The **Edit application** dialog opens.

4. Edit the application and confirm with **Apply**.

## Deleting applications

1. Open the configuration panel and select the **Applications** tab.
2. Click the application you want to delete.
3. On the context menu, click **Delete**.
4. Confirm with **Apply**.

## 8.4. Application properties

The following options are provided for most applications:

Option	Description
Name	Name of the application, shown in the control panel and on the start menu
Server	Name of the server the application connects to
Login	The user is automatically logged on to the terminal server by using predefined credentials (username, password, domain).
Pass-through login	The values of the local user variables <code>\$ELUXUSER</code> , <code>\$ELUXPASSWORD</code> and <code>\$ELUXDOMAIN</code> are used to log on to the authentication server. This allows to use the AD logon data of the eLux desktop for automatic logon to the configured applications (single sign-on).
Application restart	The application is immediately restarted after it has been closed either unexpectedly or by the user.
Start automatically after	The application starts automatically after eLux has been started. Optionally, you can delay the auto-start process by defining the required number of seconds.
Desktop icon	Provides an additional desktop shortcut for the application (except for PNAgent)  For eLux RP 6, the desktop icon is also shown in the personal desktop view.

---

## 8.5. Connecting to a Citrix farm

Users can connect to sessions running on a Citrix back-end. Once the connection has been made, the user can access published desktops and applications.

Connecting the Thin Client to a Citrix back-end is performed by one of the following applications:

- by a [StoreFront application](#) to a StoreFront server
- by the Citrix [Self-Service user interface](#) to a StoreFront server
- via [browser](#) to a StoreFront server or Web Interface server
- by a [PNAgent application](#) to a StoreFront server (XenApp Services Support must be enabled on the Citrix farm) or Web Interface server
- by an [ICA application](#) to a virtual desktop or published applications



### Note

Access via the **ICA** application type is deprecated and only supported by Citrix up to XenApp version 6.x.

## Requirements

- The eLux package **Citrix Workspace app for Linux** or **Citrix Receiver for Linux** must be installed on the clients.
- To connect via HTTPS, for the application types **Storefront**, **Self Service** and **PNAgent**, the relevant root and intermediate certificates must be available on the clients.
  - Root certificates must be transferred to `/setup/cacerts`.
  - Intermediate certificates must be transferred to `/setup/cacerts/intcerts`.

For further information, see [Certificates](#) in the **Installation** guide.

- To connect via HTTPS, for the application type **Browser**, the relevant root and intermediate certificates must be available on the clients.
  - Firefox: Root certificates and intermediate certificates must be transferred to `/setup/cacerts/firefox`
  - Chromium: Root certificates and intermediate certificates must be transferred to `/setup/cacerts/browser`
- The eLux taskbar should be enabled on the clients if published applications are provided as **seamless applications**. Seamless applications behave like local applications and users can only restore them from minimized window size by using the taskbar. For further information, see [Advanced desktop settings](#).

---

### 8.5.1. StoreFront application

By using the application type **StoreFront**, users can connect to a Citrix StoreFront server. Virtual desktops and published applications are aggregated and provided through stores. The Citrix products mainly used are XenApp and Citrix XenDesktop. StoreFront sites can be accessed via HTTP or HTTPS.

The StoreFront application enables users to access Citrix resources of one or more stores together with other configured applications, such as **RDP** or **Browser** sessions by using only one interface – the Modern User Interface (eLux RP 5) or the eLux RP 6 User Interface. For further information, see [eLux Modern User Interface](#) or [eLux RP 6 User Interface](#).

#### Defining a StoreFront application



#### Note

HTTPS connections require the relevant [SSL certificates](#) on the client.

---

1. [Add a new application](#) and select the application type **StoreFront**.
2. Edit the following fields:

Option	Description
Name	Name of the application shown in the Scout Enterprise Console
Use Provisioning File (.cr) <sup>1</sup>	<p>Enter the Citrix store provisioning file name without the file name extension. The Provisioning file must be located on the client in the directory /setup/ica/. For further information, see <a href="#">StoreFront / Store provisioning file</a>.</p> <p>This option excludes the specification of Store URLs (next option).</p>
Stores	<p>Specify the URL of one or more stores</p> <p>▶ Click <b>Add</b> and replace the automatically created default value by your individual value (double-click or F2)</p> <p>Example: (https://CtrXd76.sampletec-01.com/Citrix/Store33/discovery)</p> <p>This option excludes the use of a Provisioning file (previous option).</p>
Logon	The user is automatically logged on to the store by using the specified credentials (username, password, domain).

---

<sup>1</sup>for Scout Enterprise Management Suite 15.5 and later versions

Option	Description
Pass-through logon	<p>The user is logged on to the store via single sign-on. The AD user credentials are used.</p> <p>If AD users log on via smart card, and if Citrix Receiver for Linux 13.4.x or later versions are used, the authentication method <b>Domain pass-through</b> on the Citrix server must be disabled.</p>

**Note**

If you want to use predefined credentials or pass-through authentication, the eLux package **Citrix Receiver Extensions** and the included feature package **Dialog Extension** must be installed on the clients.

For further information, see [StoreFront / Authentication](#).

Show last user	<p>The user credentials (except for password) of the last logon are displayed in the XenApp logon dialog.</p> <p>This option has no effect if you specify fix user credentials for automatic logon under <b>Logon</b>.</p>
Autostart	<p>Specify the names of those StoreFront applications you want to have started automatically. Make sure to spell the names exactly as in StoreFront. Separate multiple application names by semicolon.</p> <p>Example: <code>MyApp1 ; MyApp2</code></p> <p>If only one resource is defined for a store, alternatively use the free parameter <code>AutostartUniqueResource=true</code><sup>1</sup></p>
Application restart Start automatically Desktop icon	See <a href="#">Adding applications</a>
Free parameters (optional)	<p>Individual parameters for application start</p> <p>For further information, see <a href="#">Defining free application parameters</a>.</p>

- To delete an entry from the **Stores** list, select the entry and click **Delete**.
- To configure further settings, click **Advanced** and edit the following fields:

Option	Description
Windows properties	Desktops can be launched in full-screen or window mode.

<sup>1</sup>for eLux RP 6.4 and later versions (Citrix Workspace app)

Option	Description
Timed logoff	<p>To enable automatic logoff from the StoreFront server, select the <b>Logoff after</b> option and specify a delay in seconds. Automatic logoff does not affect the launched desktop.</p> <p>Alternatively, automatic logoff can be configured to be performed after the last StoreFront application has been closed.</p>
Application reconnection	<p>Determine the actions to be done on a reconnect to the StoreFront server</p> <p><b>Do not reconnect:</b> The connection to the desktop or the published applications is not restored (default).</p> <p><b>Disconnected sessions only:</b> The connection to a disconnected session is restored.</p> <p><b>Active and disconnected sessions:</b> The connection to a disconnected or active session is restored.</p>
Manual logoff	<p>Determine the actions to be carried out upon logoff from the StoreFront server</p> <p><b>Logoff only server:</b> Logoff is performed only from the StoreFront server</p> <p><b>Logoff server and applications:</b> Logoff is performed from the StoreFront server and from the virtual desktop or published applications.</p> <p><b>Logoff server and disconnect session:</b> Logoff is performed from the StoreFront server but the virtual desktop session is only disconnected. This enables the user to reconnect later on.</p>



#### Note

Access to the advanced settings can be defined via the object rights.<sup>1</sup>

5. Confirm with **Apply** and **OK**.

*After users have logged on to a StoreFront server or Web Interface server, they can show all provided resources by double-clicking the **StoreFront** icon on the eLux desktop.*

<sup>1</sup>for Scout Enterprise Management Suite 15.5 and later versions

### 8.5.2. Self-Service user interface

The Self-Service user interface (UI) replaces the configuration manager **wfcmgr** and allows access to Citrix services providing published resources. After users are set up with an account, they can subscribe to desktops and applications, and then start them.

#### Defining Citrix Self-Service as local application



##### Note

The eLux package **Citrix Workspace app for Linux**<sup>1</sup> and the included feature package **Self-service** must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

1. Add a new application and select the application type **Local**.
2. Edit the following fields:

Option	Description
Name	Name for the application
Local application	Select <code>Custom</code> .
Parameter (mandatory)	Enter the following program name to start the application: <code>selfservice</code>

3. Confirm with **Apply** and **OK**.



##### Note

The `selfservice` application cannot be configured individually. To use configuration options, alternatively use the [Self-Service UI with extensions](#) (`ucselfservice`) for eLux RP 5 clients. For eLux RP 6.2 and later versions, you can use the see [Citrix Self-Service UI in kiosk mode](#).

<sup>1</sup>formerly Citrix Receiver for Linux

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### 8.5.3. Self-Service user interface with extensions

The Citrix Self-Service user interface (UI) can also be used in an extended version with further functionality<sup>1</sup>

- Configuration of the stores
- Logoff and reconnect options
- Dialog and window layout

#### Defining Citrix Self-Service UI with extensions

– Steps for eLux RP 5 / for eLux RP 6.2 and later versions, see [Citrix Self-Service UI in kiosk mode](#) –



#### Note

The eLux package **Citrix Workspace app for Linux** or **Citrix Receiver for Linux 13.x** must be installed on the clients.

The eLux package **Citrix Extensions 2.x**<sup>2</sup> or later and the included feature package **Self-service wrapper** must be installed on the clients.

For modifications on the Citrix dialog design, further feature packages must be installed on the clients:

#### **Dialog Extension** and **Self-service dialog themes**

This may require modifications of the image definition file on the web server via ELIAS.

---

1. [Add a new application](#) and select the application type **Local**.
2. Edit the following fields:

Option	Description
Name	Name for the application
Local application	Select <code>Custom</code> .
Parameter (mandatory)	Enter the following program name to start the application: <code>ucselfservice</code>

---

---

<sup>1</sup>for eLux RP 5.6 CR and later versions

<sup>2</sup>formerly Citrix Receiver Extensions



Option	Description
Free parameters	<p>Define StoreFront URLs for all stores you want to provide as <b>Free application parameters</b> as shown below:</p> <pre>StoreUrl1=&lt;URL to store1&gt; StoreUrl2=&lt;URL to store2&gt; StoreUrl3=&lt;URL to store3&gt;</pre> <p>Alternatively, you can provide the users with a range of predefined stores to choose from.<sup>1</sup> For further information, see <a href="#">Self-Service user interface with multistore option</a>.</p>

- Optionally, define further parameters and values for window properties and connection options. For further information, see [Parameters for the Self-Service extension \(ucselfservice\)](#).
- Confirm with **Apply** and **OK**.
- To change the design of the Citrix dialogs for all Citrix connections, use the Scout Enterprise feature **Advanced file entries**. For further information, see [Parameters for the Self-Service extension \(ucselfservice\)](#).

#### 8.5.4. Self-Service user interface with multistore option

The Citrix Self-Service user interface with extensions can also be used with a different option allowing to provide users with a range of predefined stores. The users can then select one of the provided stores to connect to when they log in.<sup>2</sup>

#### Defining Citrix Self-Service UI with extensions and multistore option

– Steps for eLux RP 5 / for eLux RP 6.2 and later versions, see [Citrix Self-Service UI in kiosk mode](#) –



#### Note

The eLux package **Citrix Workspace app for Linux** or **Citrix Receiver for Linux 13.x** must be installed on the clients.

The eLux package **Citrix Extensions 2.x**<sup>3</sup> or later and the included feature package **Self-service wrapper** must be installed on the clients.

For modifications on the Citrix dialog design, further feature packages must be installed on the clients:

#### Dialog Extension and Self-service dialog themes

This may require modifications of the image definition file on the web server via ELIAS.

<sup>1</sup>for eLux RP 5.5.1000 LTSR CU and later versions

<sup>2</sup>for eLux RP 5.5.1000 LTSR CU and later versions

<sup>3</sup>formerly Citrix Receiver Extensions

1. Add a new application and select the application type **Local**.
2. Edit the following fields:

Option	Description
Name	Name for the application
Local application	Select <b>Custom</b> .
Parameter (mandatory)	Enter the following program name to start the application: <code>ucselfservice</code>
Free parameters	<p>Configure access to the stores you want the users to choose from. Use the <a href="#">Free application parameters</a> as shown below:</p> <pre> Stores=&lt;number of store entries&gt; Store1=&lt;store display name&gt;,&lt;store url&gt; Store2=&lt;store display name&gt;,&lt;store url&gt; ... Domains=&lt;number of domain entries&gt; Domain1=&lt;domain display name&gt;,&lt;domain&gt; Domain2=&lt;domain display name&gt;,&lt;domain&gt; ... ShowLastUser=&lt;0 1&gt; </pre> <p>Note: You can predefine multiple stores and multiple domains using the format shown above.</p>

3. Optionally, define further parameters and values for window properties and connection options. For further information, see [Parameters for the Self-Service extension \(ucselfservice\)](#).
4. Confirm with **Apply** and **OK**.
5. To change the design of the Citrix dialogs for all Citrix connections, use the Scout Enterprise feature **Advanced file entries**. For further information, see [Parameters for the Self-Service extension \(ucselfservice\)](#).

### 8.5.5. Parameters for the Self-Service extension (ucselfservice)

#### Parameters for window properties and connection options

- In the application properties, define the following options as free parameters (Steps for eLux RP 5):

Parameter	Description	Origin
SharedUserMode=<true false>	<b>Shared User Mode</b> allows you to use one system user account for multiple users. When users log off or close the UI, the user data are removed.	Citrix
FullscreenMode=<0 1 2>	0 Not full-screen 1 Full-screen 2 Maximized and undecorated, taskbar remains visible This can be useful as users can launch seamless applications.  Default: 0 (not full-screen)	Citrix
SelfSelection=<true false>	Used to disable the search box and the self-selection panel  Disabling prevents users from subscribing to extra applications.  Default: false	Citrix
ReconnectOnLogon=<true false>	Tries to reconnect to all sessions, for a given store, immediately after logon to that store	Citrix
StoreGateway=<store gateway>	If required, specify a gateway	Citrix
ReconnectOnLaunchOrRefresh=<true false>	Tries to reconnect to all sessions when an application is launched or the store is refreshed	Citrix
SessionWindowedMode=<true false>	true: Display desktops windowed false: Display desktops in full-screen	Citrix
UseLogoffDelay=<0 1>	To activate automatic logoff, set UseLogoffDelay=1.	Unicon
LogoffDelay=<seconds>	Delay in seconds for automatic logoff	Unicon
ForcedLogoff=<0 1>	1 Logoff timer is started with logon 0 Logoff timer is started when the last Citrix app is closed.	Unicon

Parameter	Description	Origin
LogoffInfoTimeout=<seconds>	During logoff (selfservice restart), an info dialog can be shown to the user for some seconds.	Unicon

For further information, see [Defining free application parameters](#).



### Important

To provide stores to the users, you can either predefine them as fixed values or predefine a range of stores the user can choose from in a pre-logon dialog.<sup>1</sup> For further information, see

- [Self-Service user interface with extensions](#) or
- [Self-Service user interface with multistore option](#)

## Parameters for the design of the Citrix dialogs

- To modify the design of the Citrix dialogs for all Citrix connections, use the Scout Enterprise feature **Advanced file entries** and set the following entries:

File	Section	Entry	Value
/setup/sessions.ini	ICADefaults	UiDialogTheme	ucselfservice
/setup/sessions.ini	ICADefaults	UiDialogDecorated	<true false>
/setup/sessions.ini	ICADefaults	UiDialogKeepAbove	<true false>
/setup/sessions.ini	ICADefaults	UiDialogKeepBelow	<true false>
/setup/sessions.ini	ICADefaults	UiDialogColorHover	<color> Example: #b0b0b0
/setup/sessions.ini	ICADefaults	UiDialogColorUnselected	<color> Example: #a0a0a0
/setup/sessions.ini	ICADefaults	UiDialogColorSelected	<color> Example: #c0c0c0

For further information, see [Advanced file entries](#).



### Note

After the `terminal.ini` file has been updated on the client, another client restart might be required to enable the new setting.

<sup>1</sup>for eLux RP 5.5.1000 LTSR CU and later versions

### 8.5.6. Browser session to access published resources

Users can access applications and desktops that have been published through a store on the Citrix StoreFront server or through Citrix Web Interface by using a local browser.

#### Defining a browser application to access published resources



#### Note

To provide the users with a browser application to be used directly on the client, the relevant software package for Firefox or Chromium must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.



#### Note

HTTPS connections require the relevant [SSL certificates](#) on the client.

1. [Add a new application](#) and select the application type **Browser**.
2. Edit the following fields:

Option	Description
Name	Name for the browser session
Browser type	Firefox or Chromium
Called page	URL of the Web Interface homepage or StoreFront store.  Examples: <code>https://&lt;Servername&gt;/Citrix/StoreWeb</code> <code>https://&lt;Servername&gt;/Citrix/XenApp</code>

3. For the remaining parameters, see [Defining a browser application](#).

*The local user starts the browser and is forwarded to the defined page. After successful logon to the StoreFront server or Web Interface server, the published applications, desktops and contents available are shown in the browser window.*

---

### 8.5.7. PNAgent application

An application of the type **PNAgent** (Program Neighborhood Agent) enables users to access published resources through a server running a XenApp Services site. Published resources can be published applications, published desktops, or published contents (files).

Customizable options for all users are defined in the configuration file `config.xml` which is stored on the Web Interface server (by default in the directory `//Inetpub/wwwroot/Citrix/PNAgent`). When a user starts one of the published programs, the application reads the configuration data from the server. The configuration file can be configured to update the settings and user interface regularly.

The `config.xml` file affects all connections defined by the XenApp Services site. For further information, see the Citrix eDocs on <http://support.citrix.com>.

### Defining a PN Agent application



#### Note

HTTPS connections require the relevant [SSL certificates](#) on the client.

---

1. [Add a new application](#) and select the application type **PNAgent**.
2. Edit the following fields:

Option	Description
Name	Name of the application
Server	<p>Specify the address of the configuration file on the Web Interface server (URL).</p> <p>If you use the default directory and port 80, the server address is sufficient.</p> <p>Examples:</p> <p><code>https://CtrXd.sampletec-01.com/Citrix/PNAgent/config.xml</code></p> <p><code>https://192.168.10.11:81</code></p>
Login	The user is automatically logged on to the Web Interface server by using the specified credentials (username, password, domain).
Pass-through logon	<p>The user is logged on to the store via single sign-on. The AD user credentials are used.</p> <p>Note: Kerberos authentication is no longer supported with Citrix Receiver for Linux 13.x and later versions.</p>

Option	Description
Autostart application/folder	Specify the names of those applications you want to have started automatically.  Alternatively, you can specify an autostart folder containing the relevant published applications. The folder must have already been created on the Web Interface server.
Show last user	The user credentials (except for password) of the last logon are displayed in the PNAgent logon dialog. This option has no effect if you specify fixed user credentials for automatic logon under <b>Logon</b> .
Allow cancel	Allows the user to close the PNAgent logon dialog.
Application restart Start automatically Desktop icon	See <a href="#">Adding applications</a>
Free parameters (optional)	Individual parameters for application start  Example: <code>PNATimeout=60</code> brings Citrix Workspace app <sup>1</sup> to try for 60 seconds to enumerate the published applications and desktops.  To configure dual-monitor mode, you can also use the <b>Free parameters</b> , see below.  For further information, see <a href="#">Defining free application parameters</a> .

3. To configure further settings, click **Advanced** and edit the following fields:

Option	Description
Window properties	For resolution/window size, color depth and audio output, select <b>Use default</b> (server settings) or select one of the values from the list-field.
Timed logoff	To enable automatic logoff from the Web Interface server, select the <b>Logoff after</b> option and specify a delay in seconds. Automatic logoff does not affect the launched desktop.  Alternatively, automatic logoff can be configured to be performed after the last PNAgent application has been closed.

<sup>1</sup>formerly Citrix Receiver

Option	Description
Application reconnection	<p>Determine the actions to be done on a reconnect to the Web Interface server</p> <p><b>Do not reconnect:</b> The connection to the desktop or the published applications is not restored (default).</p> <p><b>Disconnected sessions only:</b> The connection to a disconnected session is restored.</p> <p><b>Active and disconnected sessions:</b> The connection to a disconnected or active session is restored.</p>
Manual logoff	<p>Determine the actions to be carried out upon logoff from the Web Interface server</p> <p><b>Logoff only server:</b> Logoff is performed only from the Web Interface server</p> <p><b>Logoff server and applications:</b> Logoff is performed from the Web Interface server and from the virtual desktop or published applications.</p> <p><b>Logoff server and disconnect session:</b> Logoff is performed from the Web Interface server but the virtual desktop session is only disconnected. This enables users to reconnect later on.</p>



#### Note

Access to the advanced settings can be defined via the object rights.<sup>1</sup>

4. Confirm with **Apply** and **OK**.

## Program Neighborhood variables

For example, variables can be used to define a unique client name for a Citrix XenApp session. To log on to a Web Interface server with Program Neighborhood, you can use the following variables:

\$ICAUSER	Username
\$ICADOMAIN	Domain for this user
\$ICAAPPLICATION	Name of the PNAgent application definition

## Creating a domain list

For PNAgent applications, you can create a domain list from which the user can select a domain.

<sup>1</sup>for Scout Enterprise Management Suite 15.5 and later versions



1. Create the text file `icadomains` without file name extension.
2. Enter the required domain names, one domain per line.
3. Save the file to the Scout Enterprise [installation directory](#).
4. Transfer the file to the `/Setup` directory on the Thin Client by using the Scout Enterprise feature [Files](#).

*If some of the configuration data are missing when a PNAgent application is started, the missing data are requested by a Citrix Web Interface logon dialog. The defined domains are listed in a drop-down list.*



#### Note

In the PNAgent application definition, you can predefine a specific domain.

Example: `work.sampletec-01.com`.

## Settings for dual monitor mode

For PNAgent sessions, you can configure a dual-monitor mode by using one of the following methods. The Citrix session can be transferred to the first monitor, to the second monitor, or to both of them.

### Method 1:

- Use the **Advanced file entries** feature of the Scout Enterprise Console and modify the ICA software defaults:

File	<code>/setup/sessions.ini</code>
Section	<code>ICADefaults</code>
Entry	<code>Xinerama</code>
Value	<code>-1 0 1</code>

For further information, see [Advanced file entries](#).

### Method 2:

- In the Scout Enterprise Console, in the application definition, set the following **Free parameters**:

`Key=Xinerama`

`Value=-1|0|1`

For further information, see [Free parameters](#).

The values mean the following:

-1	both monitors
----	---------------

0	first monitor
1	second monitor

### 8.5.8. Defining an ICA application



#### Note

Access via the ICA application type is deprecated and only supported by Citrix up to XenApp version 6.x.

For elux RP 6, the local application definition does not support the ICA type.

1. [Add a new application](#) and select the application type **ICA**.
2. Edit the following fields:

Option	Description
Name	Name of the application
Published application	Configures direct access to a published application To provide access to complete desktops, clear the option.
Server	IP address or name of the Citrix server (terminal server)
Application	Only relevant if you have selected the <b>Published application</b> option Name of the Windows application including path (see Citrix server) Note: The <b>Browse</b> option applies to the Citrix farm but is no longer supported.
Working directory (optional)	Only relevant if you have selected the <b>Published application</b> option Working directory for the application
Login	The user is automatically logged on to the Citrix server by using the specified credentials (username, password, domain).
Pass-through logon	The user is logged on to a Citrix server via single sign-on. The AD user credentials are used.  Note: Kerberos authentication is no longer supported with Citrix Receiver for Linux 13.x and later versions.
Smart card logon	The client uses a smart card for logon.
Application restart Start automatically Desktop icon	See <a href="#">Adding applications</a>

Option	Description
Free parameters (optional)	Individual parameters for application start For further information, see <a href="#">Defining free application parameters</a> .
Connection options	Opens the Citrix configuration dialog ( <code>wfcmgr</code> ) Edit the relevant options.
Advanced (eLux)	The Citrix Workspace app <sup>1</sup> configuration is saved to the file <code>/setup/ica/wfclient.ini</code> on the Thin Client and can be viewed from the Scout Enterprise Console via the <b>Diagnostic files</b> feature.

3. Confirm with **Apply** and **OK**.

*A published application is displayed on the eLux client in the same way as local applications.*

### 8.5.9. Citrix Connection Center

By means of the Citrix Connection Center, users can see all current server connections and can log off, disconnect or close them without operating the application. In addition, the connection transport statistics can be viewed which might be helpful for slowing connections.

The Connection Center is provided as a desktop application.<sup>2</sup>

#### Defining the Citrix Connection Center



#### Note

If you use **Citrix Receiver for Linux**, the eLux package **Citrix Receiver Extensions** and the included feature package **Connection Center** must be installed on the clients. If you use the later **Citrix Workspace app**, the included feature package **Utilities and tools** must be installed on the clients. This may require modifications of the image definition file on the web server via ELIAS.

1. [Add a new application](#) and select the application type **Local**.
2. Edit the following fields:

Option	Description
Name	Name for the application
Local application	Select <code>Citrix Connection Center</code> .
Parameter (optional)	Command-line parameters for program start

3. Confirm with **Apply** and **OK**.

<sup>1</sup>formerly Citrix Receiver

<sup>2</sup>formerly as a systray icon on the taskbar

---

## 8.6. RDP

The **RDP** application type corresponds to the ICA functionality but uses the Microsoft Remote Desktop Protocol (RDP) to connect to a Microsoft terminal server. The provided RDP client is **eLuxRDP** that is based on the free software implementation **FreeRDP**.

There are two options for configuration:

- **Windows Desktop:** The user accesses the desktop of a terminal server by using a remote desktop session. The user can use any application available on the desktop.
- **Individual / seamless application:** The user can only access one particular application of the terminal server.

### 8.6.1. Defining an RDP Windows desktop session

1. [Add a new application](#) and select the application type **RDP**.
2. Edit the following fields:

Option	Description
Name	Name for the RDP application
Server	IP address or name of the server
Application	Leave the field empty.
Working directory	Leave the field empty.
Logon	The user is automatically logged on to the server by using the specified credentials (username, password, domain).
Pass-through login	The user is logged on via single sign-on. The AD user credentials are used.
Free parameters	<p>Allows to define any parameters supported by <b>eLuxRDP</b> in the format:</p> <pre>FreeRDPParams=&lt;Parameter&gt; &lt;Parameter&gt; &lt;Parameter&gt;...</pre> <p>Separate multiple parameters by spaces.</p> <p>Examples:</p> <pre>FreeRDPParams=/microphone:sys:pulse +fonts /cert-ignore</pre> <p>To view the allowed parameters, enter the <code>eluxrdp</code> command in a shell.</p> <p>For further information, see <a href="#">Defining free application parameters</a>.</p>

- 
3. Confirm with **Apply** and **OK**.

**Note**

Defining a server-independent application as local hidden application named `RDP_TEMPLATE` allows you to configure a connection template without back-end. The user starts `rdpconnect` from the shell and, subsequently, specifies the server to be connected to. This feature requires the eLux software package **RDPCconnect**.

### 8.6.2. Defining an RDP application

To configure an individual application via RPD, the Windows desktop definition requires additional data about the relevant application.

1. Add a new application and select the application type **RDP**.
2. Edit the following fields:

Option	Description
Name	Name for the RDP application
Server	IP address or name of the server
Application	Name of the Windows application including path name System variables are allowed.  Examples: <code>c:\Program Files\Microsoft Office\Office\EXCEL.EXE</code> <code>%SystemRoot%\system32\notepad.exe</code>
Working directory (optional)	Working directory of the Windows application
Logon	The user is automatically logged on to the server by using the specified credentials (username, password, domain).
Pass-through logon	The user is logged on via single sign-on. The AD user credentials are used.

3. Confirm with **Apply** and **OK**.

*For the user, the application runs full-screen in the session window.*

---

### 8.6.3. Advanced application settings / RDP and VMware

The settings described below apply to the following applications:

- RDP applications
- VMware applications

If you select a protocol other than RDP, some options are not available.

#### Accessing advanced application settings



##### Note

Access to the advanced settings can be restricted via the object rights.<sup>1</sup>

- ▶ Scout Enterprise: In the **Application properties** dialog of an RDP or VMware application, click the **Advanced** button.
- ▶ eLux RP 6: In the **Application properties** dialog of an RDP or VMware application, under **Properties**, expand the relevant section.

#### View tab

Option	Description
Window size	Full-screen or a specific resolution
Full-screen on monitor	If you have selected the window size <code>Full-screen</code> , select if you want to display on one specific or all monitors. Up to eight monitors are supported. <sup>2</sup>
Colors	Color depth for the session (8-32 Bit)



##### Note

If you use multiple monitors but wish to display content on only one of them, under **Device configuration**<sup>3</sup> > **Desktop** > **Advanced** > **Windowmanager**, the **Maximize/fullscreen to single monitor** option must be selected.

#### Local Resources tab



##### Note

– for terminal servers supporting RDP protocol version 5.2 or later –

The settings take effect only if, on the **Advanced** tab, the value of the **Protocol** field is not set to `RDP_V4`.

---

<sup>1</sup>for Scout Enterprise Management Suite 15.5 and later versions

<sup>2</sup>for Scout Enterprise Management Suite 15.0 and later versions

<sup>3</sup>formerly Setup

Option	Description
Drive mapping	<p>Select drive, mount point and drive letter that you want to show in the RDP/VMware session.</p> <p>The mount points correspond to the local access paths of the resources and are provided by eLux.</p> <p>For USB devices the mount points are  <code>/media/usbdisk</code>  <code>/media/usbdisk0</code>  and so on.</p> <p>For further information, see <a href="#">Mount points</a>.</p>
Connect printer	<p>Up to four printer definitions can be created automatically for a session. The printers must be configured on the <a href="#">Printer</a> tab in the eLux device configuration and have the correct driver name as defined on the server (case-sensitive!). The first four profiles can be used with drivers. To define a default printer, choose <b>Set as default</b> in the eLux printer configuration.</p>
Sound	<p><b>Play local</b> reproduces the sound locally on the client. <b>Play remote</b> causes playback on the remote server.</p>
Connect ports	Makes the defined port connections accessible in the session
Enable smartcard	Smart cards based on a certificate can be used for login.

### Advanced tab

Option	Description
Protocol (only RDP)	<p>Enables you to set the RDP protocol to version 4 or 5</p> <p>Normally, the protocol is recognized automatically.</p>
Keyboard language	<p>Defines the keyboard layout within a session</p> <p>The default is <b>Auto</b> which corresponds to the keyboard setting of the eLux device configuration.</p>



### Important

If you define a specific language, it must be identical to the keyboard language defined in the eLux device configuration, in the **Keyboard** dialog.

Deactivate Window-Manager Decorations	The frames of the eLux windows are hidden.
Deactivate encrypting	<p>The server does not accept encrypted sessions. You can use this option to increase performance.</p> <p>By default, the option is disabled.</p>

---

Deactivate mouse move events	Mouse position data are not transferred to the server constantly, but with every mouse click. This increases system performance and is especially helpful for connections with small bandwidth. By default, the option is disabled.
Show connection bar on full screen	Shows connection list in full-screen mode
Bandwidth	Choose between <code>standard</code> , <code>modem</code> , <code>broadband</code> or <code>LAN</code> .

---

#### 8.6.4. Running RDP client from eLux command line

You can run the RDP client within a local shell on the client.

1. Start a local shell.
2. At the command prompt, enter the following command:  
`eluxrdp /v:<server>`



#### Note

To view the provided command line parameters, enter the command **eluxrdp** without parameters. You can use these parameters to define an RDP session as local application.

---

#### 8.6.5. Configuring RemoteFX

Microsoft® RemoteFX™ is a feature that is included in Windows Server 2008 R2 (SP1) and later versions. RemoteFX delivers rich user experience for Virtual Desktop Infrastructure (VDI) by providing a virtual 3D adapter, intelligent codecs and the ability to redirect USB devices to virtual machines.

1. Open the **Application properties** dialog of your **RDP** application and click **Advanced**.
2. On the **Advanced** tab, in the **Bandwidth** field, select `LAN`.
3. Confirm with **Apply** and **OK**.



#### Note

RemoteFX only works if the server supports RemoteFX and is configured in the right way. The only parameter to be configured on the client is bandwidth.

---

### 8.7. VMware Horizon



#### Note

This application type is available only on the eLux RP 6 client. On the eLux RP 5 client and in the Scout Enterprise Console, choose the `Virtual desktop` application type and, under **VD broker**, select `VMware View`.

---



Application type	VMware	...
Name	VMware A1 *	
VD broker	VMware Horizon	
Server		
Pass-through login	<input type="checkbox"/>	
User name		
Password		
Domain		
Use SSL	<input type="checkbox"/>	
Show last user	<input checked="" type="checkbox"/>	
Protocol	RDP	...
Start automatically	<input type="checkbox"/>	
Desktop icon	<input type="checkbox"/>	

The figure shows the eLux RP 6 application definition for VMware Horizon.

Option	Description
Name	Name for the application
VD broker	VMware Horizon
Server	Enter the IP address (or name) of the server
Pass-through login	The user is logged on via single sign-on. The AD user credentials are used.
Username, Password, Domain	The user is automatically logged on to the server by using the specified credentials.

Option	Description
Use SSL	Forces the connection via HTTPS Note that HTTPS connections require the relevant SSL certificates on the client.
Show last user	The user credentials (except for password) of the last logon are displayed in the logon dialog
Protocol	Choose between the following protocols: RDP PCoIP VMware Blast <sup>1</sup>
Start automatically	The application starts automatically after eLux has been started.
Desktop icon	Provides a desktop shortcut on your personal desktop

For information on the Advanced settings, see [Advanced application settings](#).

You can configure the VMware Horizon client by using the application definition in the Scout Enterprise Console or locally on the client. If you want to set additional parameters that are not included in the interface, you can use a configuration file:

- ▶ With the help of VMware documentation,<sup>2</sup> create the file `view-userpreferences`. Transfer the file via the Scout Enterprise feature [Files configured for transfer](#) to the clients to `/setup/elux/.vmware/view-userpreferences`



#### Note

The configuration on the Scout Enterprise or eLux interface has precedence over the configuration file and will overwrite values of the configuration file.

<sup>1</sup>for Scout Enterprise Management Suite 15.2 and later versions

<sup>2</sup>Installation guide for VMware Horizon Client for Linux

## 8.8. Browser

Supported browsers are Mozilla Firefox and Google Chromium.

In addition, the Builtin Browser is available as a slimmed-down browser.<sup>1</sup> The Builtin Browser is based on the WebKit2 engine which is part of the **Desktop environment**<sup>2</sup> package. By default, the Builtin Browser is run without address and navigation bar. These and some more features can be configured for the kiosk mode.



### Note

If you use Chromium, we recommend that you equip your Thin Clients with 2 GB of RAM.

For eLux RP 6 and later versions, the Java browser plugin is no longer supported.

### 8.8.1. Defining a browser application

1. Add a new application and select the application type **Browser**.
2. Edit the following fields:

Option	Description
Name	Name of the browser shown in the Scout Enterprise Console
Browser type	Select <code>Firefox</code> , <code>Chromium</code> or <code>Builtin Browser</code> . <sup>3</sup>
Start page	Web page (URL) that opens when you click <b>Home</b>
Called page	Web page (URL) that opens after starting the browser
Proxy type	<ul style="list-style-type: none"> <li>● <code>No proxy</code>: No proxy server is used</li> <li>● <code>Manual (Proxy:Port)</code>: Specify a proxy server and port number</li> <li>● <code>Auto (URL)</code>: Use a proxy configuration file</li> <li>● <code>Use system proxy (default)</code>:<sup>4</sup> 'System-wide' proxy setting defined in the device configuration under <b>Network &gt; Advanced</b> per network profile</li> </ul> <p>Note that the setting behind <code>System proxy</code> can also be <code>No proxy</code>).</p>

For further information, see [Proxy configuration](#).

<sup>1</sup>for Scout Enterprise Management Suite 15.4 / eLux RP 6.5 and later versions

<sup>2</sup>formerly MATE Desktop

<sup>3</sup>for Scout Enterprise Management Suite 15.4 / eLux RP 6.5 and later versions

<sup>4</sup>for Scout Enterprise Management Suite 15.5 and later versions



#### Note

For the Builtin Browser, the setting must be left on `Use system proxy`.

Application restart	See <a href="#">Adding applications</a>
Start automatically	
Desktop icon	
Free parameters (optional)	Individual parameters for application start see <a href="#">Defining free application parameters</a>

3. To enable the **Kiosk** mode for Firefox, see [Configuring kiosk mode](#).
4. Confirm with **Apply** and **OK**.



#### Note

By default, all browser files (cache, history, bookmarks, etc.) are saved temporarily to the flash memory but are deleted with each restart. We recommend that you configure the browser home directory on a network drive. For further information, see [Browser home directory](#).

Further browser-specific preferences can be set through policies (Chromium) or configuration file entries (Firefox.). For further information, see the Scout Enterprise guide:

[Preferences Chromium](#)

[Preferences Firefox](#)

## Deploying SSL certificates for the browser

- Use the Scout Enterprise feature **Files configured for transfer** to transfer certificate files to the required target directory on the client:

Mozilla Firefox	<code>/setup/cacerts/firefox</code> for eLux RP 6.4 and earlier versions <code>/setup/cacerts/browser</code> for eLux RP 6.5/Firefox 60.5 and later versions <sup>1</sup>
Google Chromium	<code>/setup/cacerts/browser</code>

For further information, see [Files configured for transfer](#).

Note that a second restart of the client is required to assign the certificates that have been transferred during the first boot to the certificate store of the browser.

---

<sup>1</sup>The certificates can be located in either directory.

### 8.8.2. Kiosk mode for Firefox

– for Firefox up to version ESR 52.8 <sup>1</sup> –



#### Note

For eLux RP 6.5 and later versions, you can use the Builtin Browser in kiosk mode. For further information, see [Builtin Browser in kiosk mode](#).

The kiosk mode starts the browser in full-screen mode and with limited user rights. The user cannot open other windows and cannot exit the browser.

By default, the browser window is displayed without address bar and navigation buttons. So users are forced to stay on the predefined web page and cannot exit.

Kiosk mode is suitable if the users are supposed to see only one website and not use further applications on the Thin Client. For correct use of the kiosk mode, we recommend that you disable related functions of the Thin Client such as restarting the device and opening the control panel. For further information, see [Device configuration > Security](#).

### Configuring kiosk mode

1. In the application properties of your browser application, click **Advanced**.
2. On the **Kiosk mode** tab, edit the following fields:

Option	Description
Enable kiosk mode	Enables kiosk mode
Display navigation bar	Allows using browser tabs despite kiosk mode The users can view multiple web pages of the defined web site concurrently
Add print button	Allows using browser tabs and provides a <b>Print</b> feature despite kiosk mode
Add address bar	Allows using browser tabs and provides the address bar including navigation buttons despite kiosk mode

3. Confirm with **Apply** and **OK**.

*On the next restart, the Firefox browser opens in kiosk mode.*

<sup>1</sup>included in eLux RP 6.4

---

## 8.9. Local and user-defined applications

Defining local commands is particularly important as they enable the definition of applications which can be launched within a shell. This feature assumes knowledge about the commands that average users may not have.



### Note

Make sure that the user is authorized to start the application. All commands are executed by the UNIX user **eLux** (UID = 65534).

---

Some of the local applications are predefined. If an application is missing, you can define your own application or command via the `Custom` option of the **Local Application** list-field.

Error messages will not be shown. If your command does not include an X client application, no messages are shown during execution. For this reason, we recommend first running the command within an XTerm session for testing purposes.

### 8.9.1. Defining predefined local applications

1. [Add a new application](#) and select the application type **Local**.
2. Edit the following fields:

Option	Description
Name	Name of the application shown in the Scout Enterprise Console
Local application	In the list-field, select a predefined application.
Parameter (optional)	Command-line parameters for application start
Application restart Start automatically Desktop icon	See <a href="#">Adding applications</a>
Free parameters (optional)	Individual parameters for application start see <a href="#">Defining free application parameters</a> .

---

3. Confirm with **Apply** and **OK**.

### 8.9.2. Defining custom applications

1. [Add a new application](#) and select the application type **Local**.
2. Edit the following fields:

Option	Description
Name	Name of the application shown in the Scout Enterprise Console
Local application	Select <code>Custom</code> .

---

Option	Description
Parameter (mandatory)	Enter the program name required to start the application. If required, add start parameters.  Example: calibrator calls the <b>Calibrator</b> tool squid calls the <b>Squid</b> application squid /tmp/mycache calls <b>Squid</b> using the specified cache directory
Hidden	The application is not shown on the <b>Application</b> tab of the client control panel. The option <b>Start automatically</b> or <b>Application restart</b> must be active.
Application restart Start automatically Desktop icon	See <a href="#">Adding applications</a> .
Free parameters (optional)	Individual parameters for application start see <a href="#">Defining free application parameters</a>

3. Confirm with **Apply** and **OK**.

**Application properties**

ICA | RDP-Client | Browser | SAP-GUI | Emulation  
Local | PN-Agent | Virtual Desktop | StoreFront

Name of application: Calibrator

Display name: Calibration

Local Application: Custom

Parameter: calibrator

☐ Hidden

☐ Application restart

☐ Start automatically after: 0 s

☒ Desktop icon

... x Free parameters

OK Cancel Apply Help

---

The figure shows the application definition for the calibration tool **Calibrator**. After the next client restart, the **Calibration** application is provided on the client and can be started via the control panel, start menu, or desktop icon (provided that the **Calibrator** tool is included in the image).

### 8.9.3. Defining Ekiga SIP Softphone

Ekiga is a free software application for audio and video telephony (VoIP) that supports the SIP protocol. Configuration is based on a SIP account.

1. Add a new application and, in the **Application properties**, select the application type **Local**.
2. Edit the following fields:

Option	Description
Name	Name for the application
Application	Custom
Parameter	ekiga

3. Click **Free parameters** and then **Add** to define the following free parameters:

Variable	Value
account	<Name of the SIP account>
server	<server URL>
user	<SIP username>
password	<password>
outbound_proxy	<proxy URL >

Example: `password=424242`

For further information, see [Using free application parameters](#).

4. In the **Free application parameters** dialog, right-click the variable name `password` and click **Encrypt**.
5. Confirm with **Apply** and **OK**.



## 8.10. Emulation

The following emulations are available:<sup>1</sup>

Emulation	Description
PowerTerm Inter-Connect	<p>PowerTerm® InterConnect from Ericom® Software is an emulation suite that allows you to connect to IBM mainframes, IBM AS/400, Unix, VAX/Alpha OpenVMS, Tandem (NSK), HP-3000 and Data General.</p> <p>The <b>PowerTerm InterConnect</b> (powerterm) package is required for installation. PowerTerm InterConnect is a licensed product and available from our distribution partners.</p>
eterm	<p>eterm is a terminal emulation suite including the following emulations: Siemens 97801 (7 &amp; 8 bit), ANSI, AT386, BA-80, VT320.</p> <p>The <b>Eterm 97801 terminal emulation</b> (eterm) package is required for installation.</p> <p>eterm is included in licensed eLux software free of charge. For information on configuration and how to modify the key mapping, see the <b>eterm</b> guide, available in the <a href="#">Archive on the uDocs Download page</a>.</p>
Virtual Network Computing	<p>Virtual Network Computing (VNC) is a remote display system which allows you to view a computing desktop environment not only on the machine where it is running, but from anywhere on the Internet and from a wide variety of machine architectures. The remote machine to be viewed must have a VNC server installed and the local machine a VNC viewer. In the <b>Emulations</b> dialog, you can configure the VNC viewer, which is open source and included free of charge in the eLux software.</p> <p>The <b>VNC client</b> (vnc) package of the <b>X Org</b> eLux package is required for installation.</p> <p>For further information, see <a href="#">Mirroring</a> in the <b>Scout Enterprise</b> guide.</p>
X11	<p>The X Window System (X11) is the de facto standard graphical engine for the UNIX and Linux operating systems. It provides common windowing environment bridging heterogeneous platforms. It is independent of the operating system and hardware.</p> <p>The X11 server developed by The XFree86 Project, Inc (<a href="http://www.xfree86.org">www.xfree86.org</a>) is included in the <b>Xorg</b> package and is part of the BaseOS.</p>

<sup>1</sup>The application type `Emulation` can be used in the Scout Enterprise Console and locally on the eLux RP 5 client, but cannot be used for defining applications on the eLux RP 6 client. eLux RP 6 clients can use emulations defined in the Scout Enterprise Console.

---

For further information, see [Configuring PowerTerm InterConnect](#) and [Configuring X11 application](#) in the Scout Enterprise guide.

### 8.10.1. Defining an X11 application

1. Add a new application and select the application type **Emulation**.
2. In the **Emulation type** list, select **X11**.
3. Edit the following fields:

Option	Description
Name	Name of the application shown in the Scout Enterprise Console Do not use white spaces within the name.
Server address	Enter the IP address or name of the UNIX server.
Username	Enter the name of the user registered on the UNIX system.
Application	Enter the application name including its complete path.
Use SSH	The X11 session is started via Secure Shell (SSH) protocol. Public key authorization only

4. Confirm with **Apply** and **OK**.

### 8.10.2. Configuring PowerTerm InterConnect

The configuration of PowerTerm InterConnect is carried out in two steps:

- Defining a PowerTerm application on a reference client and transferring the created configuration files
- Defining a PowerTerm application for all clients by using the configuration files created on the reference client

#### Defining a PowerTerm InterConnect application for a reference client



##### Note

The **PowerTerm** software package must be installed on the client. This may require modifications of the image definition file on the web server via ELIAS.

1. On the reference client or in the Scout Enterprise Console, define a PowerTerm application containing only the application name (for details see below).
2. Start the PowerTerm application on the reference client and configure the application manually.

*The configuration is saved to the local client directory `/setup/PowerTerm/` in the following four files*

```
ptdef.pts
ptdef.ptc
ptdef.ptk
ptdef.ptp
```

3. Close the PowerTerm application.
4. Copy the four configuration files via network or USB stick and make them available to Scout Enterprise Console.  
Or:  
Transfer the files from the client to the Scout Enterprise Console remotely by using **Request diagnostic files** with an individual template. For further information, see [Configuring diagnostic files](#).

*The configuration files for the PowerTerm configuration are provided. The second step can be carried out.*

#### Defining a PowerTerm InterConnect application for all clients

1. In the Scout Enterprise Console, add a new application for the relevant OU.
2. On the **Emulation** tab, in the **Emulation type** list, select `PowerTerm`.
3. Edit the following fields:

Option	Description
Name of application	Enter an appropriate name without using white spaces.

Option	Description										
Parameters	<p>Optional starting parameters for the PowerTerm application:</p> <table> <tr> <td>-fullscreen</td><td>full screen</td></tr> <tr> <td>-maximize</td><td>maximized window</td></tr> <tr> <td>-no-menu-bar</td><td>no menu bar</td></tr> <tr> <td>-no-tool-bar</td><td>no toolbar</td></tr> <tr> <td>[myName].pts</td><td>name of an individual PowerTerm configuration file of the client</td></tr> </table> <p><b>Example 1:</b> -fullscreen -no-menu-bar -no-tool-bar</p> <p><b>Example 2:</b> -fullscreen ptconfig001.pts</p>	-fullscreen	full screen	-maximize	maximized window	-no-menu-bar	no menu bar	-no-tool-bar	no toolbar	[myName].pts	name of an individual PowerTerm configuration file of the client
-fullscreen	full screen										
-maximize	maximized window										
-no-menu-bar	no menu bar										
-no-tool-bar	no toolbar										
[myName].pts	name of an individual PowerTerm configuration file of the client										
Terminal setup file	Select the relevant .pts file of the reference client from the file system.										
Communication file	Select the relevant .ptc file of the reference client from the file system.										
Keyboard file	Select the relevant .ptk file of the reference client from the file system.										
Power PAD file	Select the relevant .ptp file of the reference client from the file system.										
x button	<p>Delete previously selected configuration file from the Scout Enterprise database if required.</p> <p>To delete the file physically from the client you need to perform a factory reset.</p>										

4. Confirm with **Apply** and **OK**.

*PowerTerm InterConnect is available for all clients of the relevant OU on the next restart.*

## 9. eLux commands

The following eLux commands are provided to the user depending on the configured user rights

- eLux RP 6: on the extended [Command panel](#)
- eLux RP 5: in the control panel under **Setup > Firmware**

### 9.1. Updating the firmware

You can check anytime if the current software status of a Thin Client does match with the available IDF on the server and, if required, initiate a firmware update on-demand.

1. Check if the firmware settings of the device configuration are configured correctly. For further information, see [Configuring firmware update](#).
2. For eLux RP 6,<sup>1</sup> show the extended **Command panel** of the System bar.  
For eLux RP 5, in the control panel, select **Setup > Firmware**.
3. Click the **Update** button.

*The client firmware is compared to the specified IDF on the web server. A message will inform you, if the IDF on the web server contains updated packages and hence requires a firmware update.*



#### Note

Before starting the update, click **Details** to view the components that require an update.

4. To perform the firmware update, click **Yes**.

*The firmware update is performed and the client is restarted.*

### 9.2. Synchronizing configuration

After having modified the device configuration or application definitions locally on the client, you can reset the configuration data to the server-side defined settings anytime.

1. For eLux RP 6,<sup>2</sup> show the extended **Command panel** of the System bar, and then, click the **Configuration** button.  
For eLux RP 5, in the control panel, under **Setup > Firmware**, click the **Reload** button.
2. Confirm with **Yes**.

*The current device configuration and application definitions for the device or OU are loaded from the Scout Enterprise Server and are available on the client on the next restart. Local configuration settings are overridden, unless they are protected.*

<sup>1</sup>for eLux RP 6.2 and later versions

<sup>2</sup>for eLux RP 6.2 and later versions

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### 9.3. Resetting a client to factory status



#### Important

A factory reset causes the system to reset local configuration data.

Resetting a client to factory status can be useful for troubleshooting, for example, if the locally defined device configuration does not work correctly.

1. Show the extended **Command panel** of the System bar, and then, click the **Factory reset** button.
2. Confirm with **Yes**.

*The device configuration of the client firmware is set back to the factory status,<sup>1</sup> local application definitions and locally stored configuration data are deleted.*

The following data are retained:

- Connection data to the Scout Enterprise Server including server address and OU ID
- License information
- The installed image with all software packages (firmware)

On the next restart, the client acts like a device in initial operation and can be connected to a Scout Enterprise Server via the following methods:

- DNS alias `ScoutSrv`
- DHCP options 222 and 223
- Local First Configuration Wizard on the client
- Searching for the device by using the **Discovery** feature of the Scout Enterprise Console

### 9.4. eLux Command Scheduler

The eLux Command Scheduler can schedule and execute recurring time-based commands. In contrast to the Scout Enterprise commands initiated on the server side, the commands are executed according to the local time zone of the devices.

Commands to be scheduled must first be defined through an `.ini` file by the administrator. For further information, see [eLux Command Scheduler](#) in the **Scout Enterprise**-guide.

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<sup>1</sup>From Scout Enterprise 15.7 and eLux RP 6.7, local user configuration data in unlocked fields can be configured by the Scout Enterprise administrator to be retained.

## 10. Troubleshooting

### 10.1. Troubleshooting on the client

Problem	Reason	Solution
After changes in the <b>Configuration panel</b> (eLux RP 6) or <b>Control panel &gt; Setup</b> (eLux RP 5) in <b>Security &gt; User authentication</b> , you are locked out by the system.	The user authentication has been enabled by using incorrect values.	Log on locally by using the <code>LocalLogin</code> account with the device password (default: <code>eLux</code> ). You will be provided with full access rights and can modify the relevant settings.
Local configuration changes are required but the user rights are restricted.	–	The administrator can unlock the <b>Configuration panel/Setup</b> locally: The <b>key combination</b> STRG+ALT+Pos1 requests the device password.
After configuration changes, the screen does not work correctly.	The combination of resolution, frequency and color depth defined is not supported by your monitor.	<ol style="list-style-type: none"> <li>1. Switch off the device immediately.</li> <li>2. Restart, and after the BIOS has been run through, press and hold the ESC key.</li> <li>3. Enter the device password.</li> </ol> <p>eLux RP 5 and earlier: The client starts in protected mode, and you can modify the relevant settings. Restart the device.</p> <p>eLux RP 6: Select the <b>Factory reset</b> option to bring the device back to initial state.</p>

Printing problems	Reason	Solution
PostScript-file – PostScript printer (Filter = None)	Some local applications generate PostScript output. To check the file format, in the <b>Print</b> dialog, select <b>Print to file</b> , save to a network drive or the local <code>tmp</code> directory and open the <code>.prn</code> file. If the first line starts with <code>%!</code> , the file is PostScript.	To print PostScript files with PostScript printers, set the filter to <code>None</code> . If your printer prints a lot of ASCII text, use <code>PCL format</code> .
PostScript-file – PCL printer (filter should be set to <code>PCL2</code> )	To show this filter option, the <b>Print Environment</b> package with <b>FPM Filter</b> must be installed on the client.	Install the required package and set the filter to <code>PCL2</code> .
Does the printing problem affect just one device?		Try printing to other printers and accessing the network. If the connection works fine, check if the print job reaches the printer (most printers have a status line). If it does, the problem is most likely the file format (see above).
Communication problem		If the printer has an IP address, try to communicate with the printer via a local shell on protocol level. If communication is not successful and multiple clients are concerned, you might have a network problem.
Performance problem	The Thin Client stores printer data temporarily in the main memory. The memory size may not be adequate compared to the print file, and delays may occur if the printer is not ready. Graphics and color enlarge the file, PostScript files are often much larger than the original file is.	Provide the client with more main memory.



## 10.2. Troubleshooting application definition

Error / problem	Reason	Solution
Missing firmware	The required software is not installed on the Thin Client	Install the software on the Thin Client. For further information, see <a href="#">Creating an IDF</a> in the ELIAS guide and <a href="#">Firmware update</a> .
Doubled names	Two applications have the same name. This causes conflicts because applications are identified by their names.	Use unique names.
Hidden application cannot be executed	Applications are invisible for the user when they run in hidden mode. This option is available for applications of the <b>custom</b> type.	Enable the option <b>Start automatically</b> or <b>Application restart</b> to start hidden applications on start or to run them non-stop, respectively.
Problems with certificates in combination with VMware server	Server problem occurred: After successful installation, the VMware server uses a self-signed certificate. If a Thin Client is configured correctly, it will not accept. The reason is that the <b>FQDN</b> (fully qualified domain name) is mandatory for server certificates.	Create a server certificate in the <b>Windows-CA</b> with <b>FQDN</b> .  If you use <b>mmc</b> : Create a server certificate using the Snap-In <b>Certificates (Local computer)</b> .  The key must be exportable.  The display name of the server must be <b>vdm</b> . The name must be unique in the certificate store <b>Local computer / Personal</b> .
COM port redirection in RDP session does not work	Communication errors such as high latencies in the network between your serial device and the virtual desktop do not allow serial communication.	Use the <b>permissive</b> mode for the RDP application. This parameter causes communication errors to be downgraded to warnings, and communication becomes more tolerant of timeouts.  Define a free parameter in your RDP application definition with the <b>permissive</b> option.  Example: <code>FreeRDPParams=/serial:COM1,/dev/ttyS0,Serial,permissive</code>  For further information, see <a href="#">Defining free application parameters</a> .

### 10.3. Troubleshooting device configuration

The solutions provided below refer to the Scout Enterprise Console in the first place.

Error / problem	Reason	Solution								
When you use <b>USB multimedia devices</b> such as headsets or web-cams, the screen freezes or the window cannot be focused.	The USB operating elements register themselves as keyboard or mouse devices in the system.	<p>Prevent the registration as input devices by defining a <code>terminal.ini</code> entry.</p> <p>The basic functionality of the operating elements is not affected.</p> <p>For further information, see <a href="#">Preventing registration of USB multimedia components</a>.</p>								
Multimedia USB devices, connected via <b>DisplayPort to eLux RP 5 devices with an AMD processor</b> , do not play back sound.	Sound reproduction via DisplayPort is disabled.	<p>Enable sound reproduction by defining a <code>terminal.ini</code> entry. To do so, use the Scout Enterprise feature <a href="#">Advanced file entries</a>:</p> <table><tr><td>File</td><td><code>/setup/terminal.ini</code></td></tr><tr><td>Section</td><td><code>Screen</code></td></tr><tr><td>Entry</td><td><code>Radeon.Audio</code></td></tr><tr><td>Value</td><td><code>true</code></td></tr></table> <p>Alternatively, use a separate audio cable.</p>	File	<code>/setup/terminal.ini</code>	Section	<code>Screen</code>	Entry	<code>Radeon.Audio</code>	Value	<code>true</code>
File	<code>/setup/terminal.ini</code>									
Section	<code>Screen</code>									
Entry	<code>Radeon.Audio</code>									
Value	<code>true</code>									

Error / problem	Reason	Solution
Monitor via DisplayPort with AMD GPU: After changing to lower resolution the monitor brings an <b>Out of range</b> error message.	The resolution on this monitor interferes with the configured sound reproduction via DisplayPort.	<p>Disable sound reproduction via DisplayPort. This will fix the monitor error. To do so, use the Scout Enterprise feature <a href="#">Advanced file entries</a>:</p> <hr/> <p>File     /setup/terminal.ini</p> <p>Section   Screen</p> <p>Entry     Radeon.Audio</p> <p>Value     false</p> <hr/>
When you use a <b>touch screen</b> , the location of a fingertip touch is not recognized precisely.	The monitor has not been calibrated precisely enough.	To calibrate the monitor, configure a <a href="#">custom application</a> by using the parameter <code>calibrator</code> . Then start the application.
<p>Only eLux RP 5.7.x:</p> <p>In <b>dual monitor mode</b>, if the second monitor is configured to <b>vertical</b>, the desktop icons are not displayed (correctly).</p>	For some resolutions, the desktop icons on the primary monitor cannot be displayed when the second monitor is vertically aligned and the lower screen area is referenced.	<p>For eLux RP 5.7.3000 and later versions: Use a new parameter to configure the vertical alignment to the upper screen area (<code>top</code>). To do so, use the Scout Enterprise feature <a href="#">Advanced file entries</a>:</p> <hr/> <p>File     /setup/terminal.ini</p> <p>Section   Screen</p> <p>Entry     VerticalAlignment</p> <p>Value     top</p> <hr/> <p>The default value is <code>bottom</code>.</p> <hr/>

Error / problem	Reason	Solution
Display/general <b>graphics issues</b>	The feature package for hardware acceleration <b>HwVideoAccDrivers</b> <sup>1</sup> is not installed.	Activate the <b>HwVideoAccDrivers</b> FPM <sup>2</sup> within the <b>XOrg</b> package in the IDF.
	Hardware acceleration (installed with the <b>HwVideoAccDrivers</b> FPM <sup>3</sup> ) is not supported by the device and causes problems.	<p>To exclude individual device types from hardware acceleration,<sup>4</sup> create a blacklist that is transferred and locally saved to the clients by using the Scout Enterprise feature <b>Files</b>:</p> <pre>/setup/hwaccBlacklist</pre> <p>In the text file <code>hwaccBlacklist</code>, list the relevant device types, one per line. The name of the device type must be identical to the string that is shown in the Scout Enterprise Console, in the <b>Properties</b> window under <b>Asset &gt; Hardware information &gt; Type</b>.</p> <p>Example:</p> <pre>FUTRO S920 D3314-B1 HP t620 Dual Core TC</pre> <p>For all device types listed in the blacklist, hardware acceleration is disabled.</p>
<b>AD logon</b> to eLux RP 6.x does not work.	Port 389 is configured for the authentication server.	Do not define a particular port for the authentication server.

<sup>1</sup>for eLux RP 5.5 and earlier versions: **HwVideoAcc Libraries and Drivers** FPM

<sup>2</sup>for eLux RP 5.5 and earlier versions: **HwVideoAcc Libraries and Drivers** FPM

<sup>3</sup>for eLux RP 5.5 and earlier versions: **HwVideoAcc Libraries and Drivers** FPM

<sup>4</sup>for eLux RP 5.6 and later versions

**Note**

After the `terminal.ini` file has been updated on the client, another client restart might be required to enable the new setting.

---

## 11. Appendix

### 11.1. eLux partitions

A thin client's flash memory normally is divided into three or four partitions when eLux is installed. Each partition is reserved for a dedicated purpose and is only touched when you perform special tasks that are related to this partition.

All partitions are created during a recovery installation.

Partition	Requires	Purpose	Recreated with	Other
System		Reserved for the firm-ware (software pack-ages)	Scout Enterprise <b>Update</b> command with option <b>Format system partition before update</b>	Size 2 GB
Boot	only UEFI and USB	Boot section	–	
Setup		Device configuration  Local application defin-itions	Factory reset command	Does not affect the sys-tem partition with installed firmware
Update	4 GB flash memory	Software delivery in advance (before firm-ware update) via Scout Enterprise command  Signature check for eLux software packages  Clients with update par-tition can be used as Dynamic Proxy	Scout Enterprise <b>Delivery</b> command with option <b>Format update partition before delivery</b>	The size of the update partition complies with the storage space provided.  Devices with less than 4 GB flash memory are not provided with an Update partition.

In the Scout Enterprise Console, in the Properties window of a device, you can view the system, setup and update partitions with their respective sizes.

### 11.2. IP ports

#### eLux / required ports

Port	Type	Description	How to deactivate	In/Out
	ICMP	<b>ping</b> must be supported to verify the status of the eLux devices		In/Out

Port	Type	Description	How to deactivate	In/Out
80	TCP	Firmware update by using HTTP (and proxy port, if used)		Outgoing
443	TCP	Firmware update via HTTPS/TLS		Outgoing
5900	TCP	Mirroring eLux desktop	In <b>Config<sup>1</sup> &gt; Security</b> , disable mirroring or uninstall VNC server in X.Org package	Incoming
22123	TCP	Scout Enterprise Server (Scout Enterprise Manager / secure)		In/Out
22125	TCP	Scout Enterprise Server (Scout Enterprise Manager / TLS 1.2) <sup>2</sup>		In/Out
22129	TCP	VPN		Outgoing

### eLux / optional ports

Port	Type	Description	How to deactivate	In/Out
	ESP	VPN (data transfer)	Uninstall package VPN System	In/Out
21	TCP	Update via FTP control port (dynamic data port)		Outgoing
22	TCP	SSH applications		Outgoing
23	TCP	3270, 5250, 97801 emulations and telnet sessions		Outgoing
53	TCP, UDP	DNS server		Outgoing
67	UDP	DHCP server	Configure a local IP address ( <b>Config &gt; Network</b> )	Outgoing
68	UDP	DHCP client (or: BootP client)	Configure a local IP address ( <b>Config &gt; Network</b> )	Incoming
69	UDP	TFTP server (only used during PXE recovery)		Outgoing
88	TCP, UDP	AD authentication (Kerberos)		Outgoing

<sup>1</sup>Device configuration, formerly Setup

<sup>2</sup>for Scout Enterprise Management Suite 15.1 / eLux RP 6.1 and later versions

Port	Type	Description	How to deactivate	In/Out
111	TCP, UDP	TCP port mapper – RPC internal use only Works with lockd (random)  UDP port mapper – drive access on NFS servers Works with NFSD drive access (port 2049) and mountd (random)	Uninstall <code>Network Drive Share</code> package	In/Out
123	UDP	Windows Time server (NTP)	Do not configure a time server <b>(Config &gt; Desktop)</b>	In/Out
139	TCP, UDP	SMB drive mapping, (NetBIOS) and SMB user authentication (CIFS)	Uninstall <code>Network Drive Share</code> package and <code>User authentication modules</code> package	Outgoing
161	UDP	SNMP	Uninstall <code>SNMP Environment</code> package	In/Out
162	UDP	SNMPTRAP	Uninstall <code>SNMP Environment</code> package	Outgoing
177	UDP	XCMCP protocol		Outgoing
389	TCP	AD authentication with user variables		Outgoing
443	TCP	VPN (connecting) via HTTPS/TLS	Uninstall <code>package VPN System</code>	In/Out
464	TCP, UDP	AD authentication (Kerberos) / Set password		Outgoing
514	TCP	Shell, X11 applications		Outgoing
515	TCP	Printing via LPD	Uninstall <code>package Print environment (CUPS)</code>	In/Out
631	TCP, UDP	CUPS (IPP) print client	Uninstall <code>package Print environment (CUPS)</code>	Outgoing
636	TCP	LDAPS authentication with user variables		Outgoing
2049	UDP	NFSD drive access NFS	Uninstall <code>FPM NFS Support in Network Drive Share</code> package	Outgoing
6000	TCP	Remote X11 application	In <b>Config &gt; Security</b> , clear <b>Allow remote X11 clients</b> option	Incoming



Port	Type	Description	How to deactivate	In/Out
7100	TCP	Font server can be assigned in ( <b>Config &gt; Screen &gt; Advanced</b> )		Outgoing
9100	TCP	Printing directly to parallel port can be assigned in ( <b>Config &gt; Printer</b> )	In <b>Config &gt; Printer</b> , clear <b>TCP direct print</b> option	Incoming
9101	TCP	Printing directly to USB port can be assigned in ( <b>Config &gt; Printer</b> )	In <b>Config &gt; Printer</b> , clear <b>TCP direct print</b> option	Outgoing
20000	UDP	Wake On LAN		In/Out
22124	TCP	Scout Enterprise Statistics		Outgoing

### Scout Enterprise Server

Port	Type	Description	In/Out
	ICMP	<b>ping</b> must be supported to verify the status of the eLux devices	In/Out
1433	TCP	MS SQL Server	Outgoing
1434	UDP	MS SQL Server (Browser service)	In/Out
22123	TCP	Clients (Scout Enterprise Manager / secure)	In/Out
22124	TCP	Scout Enterprise Statistics	Incoming
22125	TCP	Clients (Scout Enterprise Manager / TLS 1.2) <sup>1</sup>	In/Out

### Scout Enterprise Console

Port	Type	Description	How to deactivate	In/Out
1433	TCP	MS SQL Server		Outgoing
1434	UDP	MS SQL Server (Browser service)		Outgoing
5900	TCP	Mirroring the eLux desktop	In <b>Config &gt; Security</b> , disable mirroring or uninstall VNC server in X.Org package	Outgoing

### Scout Enterprise Dashboard

Scout Enterprise Dashboard can be installed with HTTP or HTTPS.

<sup>1</sup>for Scout Enterprise Management Suite 15.1 / eLux RP 6.1 and later versions

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Port	Typ	Description	How to deactivate	In/Out
80	TCP	Dashboard service / web server via HTTP		Incoming
443	TCP	Dashboard service / web server via HTTPS/TLS		Incoming
5901	TCP	Mirroring the eLux desktop	In <b>Config &gt; Security</b> , disable mirroring or uninstall VNC server in X.Org package	Outgoing

---

### Scout Enterprise Cloud Gateway

Port	Typ	Description	In/Out
22125	TCP	Scout Enterprise Server (Scout Enterprise Manager / TLS 1.2)	In/Out
22129	TCP	VPN	Incoming

## 11.3. SNMP

SNMP (Simple Network Management Protocol) is a network protocol for monitoring and controlling network devices.

For eLux RP 5 and eLux RP 6, version SNMPv3 is used.



### Note

The command line program **snmpget** is not included in the software package. To query SNMP status information, please use third party software.

### 11.3.1. Configuring SNMP

1. From our portal [www.mylux.com](http://www.mylux.com), under **eLux Software Packages**, for your eLux version, under **Add-On**, download the package **SNMP Environment** and deploy it to the clients.
2. If there is no `/setup/snmp/snmpd.conf` on the clients, transfer the configuration file `snmpd.conf` to the clients to `/setup/snmp/snmpd.conf` by using the Scout Enterprise feature [Files](#).

Or:

Modify the `terminal.ini` file by using the [Advanced file entries](#) feature of Scout Enterprise.

Example:

File	<code>/setup/terminal.ini</code>
Section	SNMPD
Entry	<code>rocommunity</code>
Value	<code>secret</code>

3. Optionally, to define further **SNMPD Configuration Directives**, use the [Advanced file entries](#) feature and modify the `terminal.ini` file under SNMPD. Examples:

```
syscontact=contact@sampletec.com
syslocation=testcenter
doDebugging=1
```

For further information on SNMPD Configuration Directives, see <http://www.net-snmp.org>.

*The section **SNMPD** of the `terminal.ini` file is evaluated by the client and the file `/setup/snmp/snmpd.local.conf` is created. An existing `/setup/snmp/snmpd.conf` will be overwritten.*

If the configuration file does not exist, the file `/setup/snmp/snmpd.local.conf` is created with default values.

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## Notes on configuring SNMP v3

- When you define users (**createUser**), set a password with at least 8 characters.
- For the authentication method, define `authPriv` or `authNoPriv`.



### Note

For SNMP v2, you can use `noAuthNoPriv` as the authentication method.

---

### 11.3.2. SNMPD and SNMP Configuration Directives

The following table refers to the software package **snmp-5.6.1.1-2** for eLux. For further information on using SNMP with eLux, see [SNMP](#).

For further information on SNMP commands, see <http://www.net-snmp.org>.

Application	Command
authtrapenable	1   2 (1 = enable, 2 = disable)
trapsink	host [community] [port]
trap2sink	host [community] [port]
informsink	host [community] [port]
trapssess	[snmpcmdargs] host
trapcommunity	community-string
agentuser	agentuser
agentgroup	groupid
agentaddress	SNMP bind address
syslocation	location
syscontact	contact-name
syservices	NUMBER
interface	name type speed
com2sec	name source community
group	name v1 v2c usm security
access	name context model level prefix read write notify
view	name type subtree [mask]
rwcommunity	community [default hostname network/bits] [oid]
rocommunity	community [default hostname network/bits] [oid]
rwuser	user [noauth auth priv] [oid]
rouser	user [noauth auth priv] [oid]
swap	min-avail
proc	process-name [max-num] [min-num]
procfix	process-name program [arguments...]
pass	miboid command

Application	Command
pass_persist	miboid program
disk	path [ minspace   minpercent% ]
load	max1 [max5] [max15]
exec	[miboid] name program arguments
sh	[miboid] name program-or-script arguments
execfix	exec-or-sh-name program [arguments...]
file	file [maxsize]
dlmod	module-name module-path
proxy	[snmpcmd args] host oid [remoteoid]
createUser	username (MD5 SHA) passphrase [DES] [passphrase]
master	pecify 'agentx' for AgentX support
engineID	string
engineIDType	num
engineIDNic	string

## SNMP Configuration Directives

Application	Command
doDebugging	(1 0)
debugTokens	token[,token...]
logTimestamp	(1 yes true 0 no false)
mibdirs	[mib-dirs]+mib-dirs]
mibs	[mib-tokens]+mib-tokens]
mibfile	mibfile-to-read
showMibErrors	(1 yes true 0 no false)
strictCommentTerm	(1 yes true 0 no false)
mibAllowUnderline	(1 yes true 0 no false)
mibWarningLevel	integerValue
mibReplaceWithLatest	(1 yes true 0 no false)
printNumericEnums	1 yes true 0 no false)
printNumericOids	1 yes true 0 no false)

Application	Command
escapeQuotes	(1 yes true 0 no false)
dontBreakdownOids	(1 yes true 0 no false)
quickPrinting	(1 yes true 0 no false)
numericTimeticks	(1 yes true 0 no false)
suffixPrinting	integerValue
extendedIndex	(1 yes true 0 no false)
printHexText	(1 yes true 0 no false)
dumpPacket	(1 yes true 0 no false)
reverseEncodeBER	(1 yes true 0 no false)
defaultPort	integerValue
defCommunity	string
noTokenWarnings	(1 yes true 0 no false)
noRangeCheck	(1 yes true 0 no false)
defSecurityName	string
defContext	string
defPassphrase	string
defAuthPassphrase	string
defPrivPassphrase	string
defVersion	1 2c 3
defAuthType	MD5 SHA
defPrivType	DES (currently the only possible value)
defSecurityLevel	noAuthNoPriv authNoPriv authPriv