

Elux Recovery Installation



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Elux Recovery Installation

Introduction

The purpose of this document is to enable 'anyone' to correctly set up an eLux B100 thin client recovery server. You can change the settings (IP address, subnet, Domain, and installation paths) but it is recommended you follow this document EXACTLY as is, to guaranty a successful first time.

NOTE: A recovery will need to be performed when:

ELux cannot be booted any more.

The flash memory of the Thin Client does not yet contain a basic image.

The password for Local Login has been changed from the factory settings and is no longer known.

Prerequisites

In order to carry out a recovery you will need the following equipment:

A machine running Windows 2000 (pro or server) with an IP address of 192.168.0.1 (you can change it if you know what you are doing but if you want it to work 1st time... follow this document!)

100MB LAN Hub and 2 patch cables or a crossover cable (later preferred)

MAC address of the client.

A BOOTP server.

A TFTP server.

An HTTP server.

MAC address of the client

The MAC address of the client is essential in order to restore a factory image to the unit. The MAC address consists of 12 digits (in the HEX range of 0 – F) there is several ways to determine the MAC address of the client and listed below are the two easiest methods:

1. The MAC address can normally be found on a little white sticker on the client itself, normally at the back.
2. Plug in the keyboard, monitor and power then switch the client on, almost straight away (or when prompted, if enabled) use the <Shift> + <F10> keys to enter the BIOS. Change the BOOT order to **Int 19h** (always boot network first, then local devices) press F4 to save and exit. When machine reboots DHCP will be shown on screen, press 'Pause/Break' to allow you time to write down the MAC address, now switch off the client.

ScoutEL Version

Software & Tools v1.1 Release 3 CD ROM version was used for the creation of this document. The CD contains images for both the Futro B100 and D100.

The D100 if fitted with a CD Rom drive can be restored by using a Bootable recovery CD.

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ScoutEL Installation

Insert the CD ROM and start the *setup.exe* located in **eluxtools -> scoutel -> v38r11**.

Choose English (unless you prefer German) click **Ok**.

In the **Install shield wizard** dialog box click **Next**.

In the **License Agreement** dialog box read the license and click **Yes** to accept.

In the **Destination Location** dialog box enter the path as **C:\Unicon\scoutel**

In the **Select Components** dialog box select:

ScoutEL - Console

ScoutEL - Server

BOOTP - Server

TFTP - Server

All other options can be either selected or de-selected doesn't really matter.

In the **Select Program Folder** dialog box leave the default '**ScouteL**' and click **Next**.

During the installation process of ScoutEL you will be prompted to configure and start services select 'Yes' to all options.

Click **Finish** in the **Install Wizard** dialog box.

Apache Web server Installation

This is required to provide an *easy to set up* solution so enabling the client to download the correct image for the update.

On the eLux Software & Tools CD ROM, locate and start the following application:

apache_1_3_1_4_Win32.exe found in the folder **Utils -> apache_nt**

Do a Typical installation and use the default settings on the following screens.

When the install is finished use explorer and browse to **C:\Program Files\Apache Group\Apache\htdocs** now create a new folder **elux** (in htdocs)

Copy the **elux32dom.bin** from the <CD>:\containers\future_b100\recovery to the **elux** folder you just created in **htdocs**

Using the Windows Start menu locate and start the Apache Web Server. Open a web browser and enter <http://localhost> to make sure the installation was a success. Enter

<http://localhost/elux> make sure the BIN file is shown.

You can now close the web browser and stop the Apache Web Server running.

Recovery files

Copy all the files (except 'elux32dom.bin and 'bootptab') from <CD>:\containers\future_b100\recovery\ to the following folder

c:\Unicon\scoutel\tftpd when asked to overwrite select 'Yes to all'.

Copy <CD>:\containers\future_b100\recovery\bootptab to the following folder **c:\Unicon\scoutel\bootpd** when asked to overwrite select 'Yes'.

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Bootptab Entries

Now locate the **bootptab** file in the following folder **c:\Unicon\scoutel\bootpd** remove the Read Only attribute then open it with WordPad. Change the entries to match exactly as shown below. (comments in brackets for info only)

```
elux1:ha=000000000000:ip=192.168.0.5:\ (MAC address of client, IP to assign)
      :dn=myusergroup:\ (workgroup name of your installed server)
      :sm=255.255.255.0:\ (subnet mask of network)
      :ds=192.168.0.1:\ (server IP address)
      :gw=192.168.0.1:\
      :sa=192.168.0.1:hd=/UniCon/scoutel/tftpd:bf=pxelinux.0:\ (tftp boot file)
      :to=3600:\
      :ht=1:\
      :hn:vm=rfc1084:
```

Save and exit.

Now locate **elux.des** file in the following folder **c:\Unicon\scoutel\tftpd** remove the Read Only attribute then open it with WordPad. Edit the line

URL=http://elux:elux@212.172.90.1/elux/recovery/elux__SIZE__.bin

so it looks like:

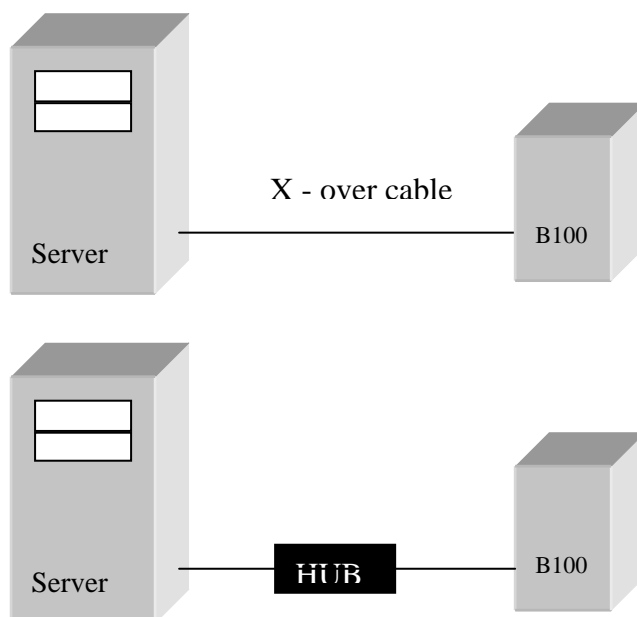
URL=http://192.168.0.1/elux/elux__SIZE__.bin

Save and exit.

Now reboot the server then start Apache web server.

Client - Server set-up Diag

Make sure the client is connected to the Server with either the LAN X - over cable or 2 x patch cables and a 100MB hub. (Pictures below)



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Recovery process

- Start the client (should still be set to boot from LAN)
- Now sit back and wait for the image to be transferred to the client.
- Throughout the restore process there will be activity on the client screen showing the different stages.
- One important one you must take notice of is:
 - Do not switch off while Flashing (shown in RED)
- When image has been transferred... the message will read:
 - Success!!
After reboot enter BIOS set-up and disable network boot!
Press Return to reboot. (Shown in Green)

Document Ends here...