AP-ELP (v3) ELP Appliance

Installation manual and user guide

Version 8.8.19





AP-ELP (v3) Appliance Manual

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1 Introduction

The AP-ELP v3 Appliance is an external box, based on Jbox3 platform and equipped with the CPU Vortex86MX 32-Bit Microprocessor, DDR2 512MB onboard (933 MHz), which is based on x86 structure. It is the x86 SoC (System on Chip) with 0.13 micron process and ultra low power consumption design (less than 1 watt). The CPU is a high performance and fully static 32-bit X86 processor with the compatibility of Windows based systems, Linux and most popular 32-bit RTOS.

The CPU integrates 32KB write through direct map L1 cache, PCI Rev. 2.1 32bit bus interface at 33 MHz, SDRAM, DDR2, ROM controller, IPC (Internal Peripheral Controllers with DMA and interrupt timer/counter included), Fast Ethernet MAC, FIFO UART, USB2.0 Host and IDE controller into a System-on-Chip (SoC) design.

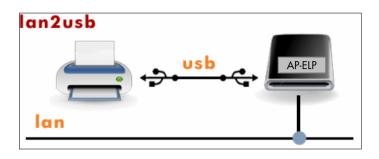
The box is running the standard kernel Linux 3.X Operating System installed on a single Secure Digital Card (SD). The SD capacity is starting from 2Gb. Bigger sizes can be used upon request.

The base system runs the following services:

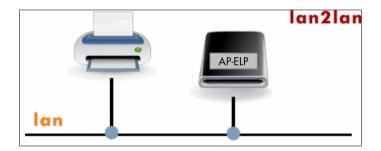
- Boa Web Server
- Telnet
- uDHCP
- Net-SNMP
- Pro-FTPD
- Jbox2 Daemon Prints

The standard configuration can serve maximum one printer connected to USB or via LAN (TCP/IP).

AP-ELP v3 as Print Server (LAN2USB):



AP-ELP v3 as re-router (LAN2LAN):



2 Network Configuration

The box's network interface (eth0) can be configured in two ways:

- Using a DHCP server
- Statically defined via Web Interface

At the box's power-on, the internal DHCP daemon looks for a DHCP server on the LAN, to acquire a valid IP address from it.

If no server is providing the IP address, the box automatically raise up the network interface with this **temporary** address:

IP ADDRESS	NETMASK ADDRESS
192.0.0.192	255.0.0.0

This address should be used to perform the complete box's configuration using the Web Interface (see. 3). otherwise it should be changed using the box's TTY console.

2.1 Using the box console

Before powering-on the box, connect a VGA monitor and a PS2/USB keyboard. Turn on the box.

When the box is ready, the console will display the login prompt like:

JBOX3-001BEB0012AA login:

Type ALT+F2 to access the AP-ELP Network Configuration Tool window

JBOX2 - Basic network configuration tool.
This tool helps to configure ethernet interface with
simply IP/NETMASK parameters.
Then you have to fix the real IP/NETMASK values using web pages
Then you have to TIX the reat IP/NETMASK values using web pages
The bar is successfill, successfill, site
The box is currently configured with:
IP address: 192.168.1.30
Netmask : 255.255.255.0
Paint your browner at http://102.160.1.20
Point your browser at http://192.168.1.30
or
Change IP and MASK values ?: [y/n]

After you changed the IP and MASK values with this tool, the configuration has to be performed using a browser (see. 3) pointing to the temporary IP associated. Note: if the box is restarted, the network temporary configuration is lost.

2.2 Using DHCP with MS Windows

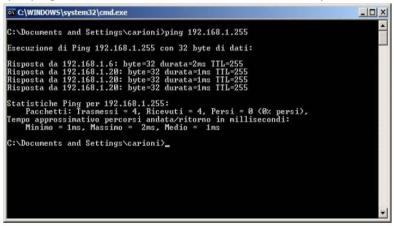
When a DHCP server is available on LAN, the box asks for a valid IP address. To check which address the box gets from LAN, you have to login to DHCP server and look in the Address Leases window, on the right.

Tree	Address Leases			
DHCP	Client IP Address /	Name	Lease Expiration	Туре
- 🔂 firenze [192.168.1.2]	192.168.1.20	wireless 3com access point (dhcp)	Reservation (active)	DHCP
🗐 🦲 Scope [192.168.1.0] Oberor	192.168.1.23	jbox-00408c010772	04/01/2006 15.22.33	DHCP
Address Pool	5192.168.1.24	nb-carioni.	04/01/2006 11.57.13	DHCP
Address Leases	5192.168.1.25	pc_valentina.	04/01/2006 13.54.27	DHCP
E . Reservations	192.168.1.26	pc-andrea	04/01/2006 10.08.51	DHCP
[192.168.1.20] Wire	5192.168.1.29	pc_silvia.	04/01/2006 9.34.07	DHCP
	4192.168.1.40	pc_antonella	04/01/2006 11.48.33	DHCP
Server Options	192.168.1.42	totino	04/01/2006 10.31.44	DHCP
	5192.168.1.46	pc_alessia.	04/01/2006 9.31.56	DHCP
	5192.168.1.48	pc_roberto.	04/01/2006 10.58.59	DHCP
	192.168.1.83	pc-massimo	04/01/2006 9.26.12	DHCP
	•			

Look for the J-Box suffix followed by the box's MAC address.

In case you don't have the DHCP address, use the PING/ARP procedure to discover the box's IP.

- 1. Open a DOS shell on your Windows PC
- 2. Run the ping command in broadcasting mode in the current mask this way: ping 192.168.1.255 -t (the address must reflect your LAN)



3. Now examine the ARP table using the command arp -a

4. Find the AP-ELP v3 MAC address (reported on the box, bottom side) and the related IP address assigned by the Server.

C:\Documents and Setti	ngs∖carioni>arp -a	
Interfaccia: 192.168.1	.24 Øx4	
Indirizzo Internet	Indirizzo fisico	Tipo
192.168.1.2	00-03-47-9a-9e-31	dinamico
192.168.1.3	00-60-8c-f3-80-9d	dinamico
192.168.1.23	00-40-8c-01-07-72	dinamico
192.168.1.26	00-0b-cd-25-ad-ee	dinamico
192.168.1.74	00-00-00-00-00-00	non valido
192.168.1.83	00-0b-cd-26-1a-5a	dinamico
192.168.1.254	00-06-4f-0e-3b-ca	dinamico

2.3 Using DHCP with Linux

In case of Linux environment the commands to run are the following:

- Open a terminal session
- ping 255.255.255.255 -c 2 -b
- Now examine the ARP table using the command arp -a
- Find the AP-ELP Box MAC address (reported on the label on the bottom side of box) and the relative IP address assigned by DHCP Server.

3 Web Server

When the box is configured with an IP address (see chapter 2), the complete configuration has to be performed with the internal box's web server pages. The web server is secured with a login method using User and Password. Those values are configured the first time the web server is accessed. Recovering this account requires a "restore to factory default" procedure that should only be executed via the box's console (see. 3.8), so we suggest to use admin/admin as user and password in the web login page.

3.1 Login Page

The box's login page allows you to access configuration pages. At the first access, a User and Password should be chosen.

user	
password	

After you fill the user and password fields and press login, a pop-up will inform you to perform again the login with chosen account.

3.2 Home Page

A successful login will show the box's home page with a left-sided menu:

home	This page
network	Configure the networks configuration parameters (IP, MASK)
printer	Configure the printer's jobs receive/send method (LAN2USB or LAN2LAN)
storage	Management of stored files on SD public area (Macros, Convert.ini)
firmware	Upload and perform appliance's firmware upgrade
log	Appliance logs
restore	Restore factory default
restart	Restart the appliance after configuration modifications
logout	Logout from web session

3.3 Network Page

The network page allows to configure the Ethernet interface (eth0).

network network settings		Host Name – By default the box's hostname is composed by the JBOX3
host name		keyword plus the Ethernet MAC address. This field allows you to
hostname	JBOX3-001BEB22147C	change its default value.
ip lookup me	thod	 IP lookup method – By default the box looks for a DHCP server on LAN to acquire an IP address. If you need
🔘 dhep		to assign a STATIC IP address choose
Omanual		for ' <i>manual</i> ' and fill up all 3 fields:
ip address	192.0.0.192	• IP address: ex 192.168.1.120
subnet mask	255.0.0.0	• Netmask: ex. 255.255.255.0
gateway	0.0.0	• Helindsk : ex. 200.200.200.0
domain	mydomain.com	• Gateway: ex. 192.168.1.254
first dns	0.0.0	• Domain : search domain filter
second dns	0.0.0	• Domain : search aomain mer
save		• First and Second DNS: ex 0.0.0.0

• SAVE button: Save values

Remember: to use the new values a box's reboot is required.

3.4 Printer Page

The appliance's Printer Page allows you to configure the job's *Receive* method (the way the jobs are sent to AP-ELP) and the *Send* to printer method (the way the AP-ELP is sending modified jobs to device).

printer		
printer settings		Input connection: how the
input conne	ction	 box will receive the jobs. RAW: default value is 9100 LPD: normally used with unix/*nix systems. Fixed values
port C Ipd	9100	is port 515 (LPR/LPD). No values are required then any queue name can specified on unix spool system.
printer conn Cusb	ection	 Printer connection: how the AP-ELP has to send the jobs.
r _{lan}		• USB : a printer connected to the USB port (LAN2USB)
ip address	192.168.1.73	• LAN: rerouting the jobs to a
port	9100	IP address: specify the IP
log		address of the destination printer.
log	F	• PORT : specify the connection port of remote printer.
warning : reme save	mber to restart the print server after the modifications.	• LOG : enable this flag to have the Printer thread log available for debug purpose. (See Log

• SAVE button: Save values.

Remember: to use the new values a box's reboot is required.

Page).

3.5 Storage Page

The AP-ELP v3 appliance uses a Secure Digital to store programs and other various stuff. This page helps you to check what is loaded on the SD's public area or to load new files on it.

storage



- **Browse**: This button helps to find files on your PC using a standard search window.
- **Store**: transfer the selected file on internal storage

By default some folders and files are preloaded on appliance.

- **RUNS**: this folder is normally used to configure the AP-ELP application. Inside this folder there are the elp.jxe and convert.ini files plus some .mac files.
- **DELETE**: use to delete files or folders from the storage.
- **CREATE DIR**: used only to create a new folder on storage.

3.6 Storage Download Manager

The AP-ELP v3 has a download manager that can be used to send to the appliance files and macros to be stored on internal storage. This manager supports the PJL commands as a standard method to load stuff on storage area. By default the storage public area is mapped as disk 0: It is easy to create a RFU (remote file upgrade) file that can be sent to the appliance as a normal job.

This RFU file has to begin with the special header that is 4 bytes



The supported PJL commands are:

- FSAPPEND
- FSDELETE
- FSDOWNLOAD
- FSMKDIR

3.7 Firmware Page

This page is used to upgrade/downgrade the appliance's firmware. Normally the new firmwares are published in zip format. Before loading on the appliance, you have to unzip the firmware file on a PC's folder.

firmware	Browse Firmware file to load
select firmware image	-
browse attention : do not reset or disconnect power during upgrade.	 Button to perform the Firmware upgrade.
the unit restarts automatically after upgrade is completed.	

The box will automatically perform a reboot after the file is loaded. To check the running firmware version, look on every bottom web pages for a line like

Firmware Version: 3-0.2-[X86] (20080326) | "

After the upgrade, check for changed version.

NOTE:

The firmware file is also available as RFU format. In this case just send it to the box as a normal job.

3.8 Log Page

The Log Page reports various log files available on appliance. The main window is showing the Linux OS log messages. This log is produced by the kernel and drivers.

Iog

log page

log

Apr	12 10:45:05 JBOX2-001BEB0901FD syslog.info syslogd started:
Busy	/Box v1.9.0
Apr	12 10:45:05 JBOX2-001BEB0901FD user.notice kernel: klogd
star	ted: BusyBox v1.9.0 (2008-04-12 10:03:05 CEST)
Apr	12 10:45:05 JBOX2-001BEB0901FD user.notice kernel: Linux version
2.6	18-OBE (daleo@pc-dgf) (gcc version 4.2.1) #24 PREEMPT Sat Apr 12
10:0	07:16 CEST 2008
Apr	12 10:45:05 JBOX2-001BEB0901FD user.info kernel: BIOS-provided
phys	sical RAM map:
Apr	12 10:45:05 JBOX2-001BEB0901FD user.warn kernel: BIOS-e820:
0000	00000000000 - 0000000009fc00 (usable)
Apr	12 10:45:05 JBOX2-001BEB0901FD user.warn kernel: BIOS-e820:
0000	00000009fc00 - 000000000000000 (reserved)
Apr	12 10:45:05 JBOX2-001BEB0901FD user.warn kernel: BIOS-e820:
0000	0000000e0000 - 000000000000000 (reserved)
Apr	12 10:45:05 JBOX2-001BEB0901FD user.warn kernel: BIOS-e820:
0000	000000100000 - 000000008000000 (usable)
Apr	12 10:45:05 JBOX2-001BEB0901FD user.warn kernel: BIOS-e820:
0000	00000ff000000 - 0000000100000000 (reserved)
Apr	12 10:45:05 JBOX2-001BEB0901FD user.notice kernel: 128MB LOWMEN

save log file

The "save log file" button is used to open a new browser window. This new window (text format) is reporting deep information about the appliance itself.

3.9 Restore Page

Use this page to restore the appliance to its factory default value

restore

restore to factory default

warning : print server will be restored to factory default.

restore

Apply the restore button to clear the configuration.

It is possible also to use the J-Box2 / APELP v2 console to perform the Restore to Factory procedure. Follow the same steps on 2.1 but instead of typing ALT+F2, type ALT+F3 sequence. A window like this will appear:

JBOX2 - Restore to factory default tool. This tool helps to restore the JBOX2 values to its factory default. Network, Printers and Web configuration are deleted! Do you want to restore to factory ?: [y/n]

Just type Y at the prompt and the box will reload factory default values and it will reboot automatically.

3.10 Restart Page

This link has to be used to perform a remote reboot of appliance. It is required after any modification on the box's configuration.



Just click on restart button to perform the remote appliance reboot.

4 FTP Server

JThe AP-ELP v3 is running also an FTP server to server the access to the public storage area on SD card.

The login to requires the following credentials:

USER: storage PASS: storage

5 Hardware support

For any hardware support request please us the following contact information:

Oberon Service srl Via Meda 28 I-20141 Milan Italy Phone: +39 02 84800612 Fax: +30 02 84800538 e-mail: support@oberon.it info@oberon.it

6 ELP installation

There is nothing to do here. AP-ELP comes fully preconfigured with the ELP code pre-installed on the box.

7 ELP configuration

7.1 PCL Barcoding:

No configuration is needed. By default ELP fully emulates the industry standard for Laser printer barcode printing, but with some nice extensions, which are listed in the manual.

7.2 PostScript Barcoding

This is an extension to the standard printing, and can be configured using the Windows Configuration Tool (W-ELP – Control Center / PPAdmin).

7.3 All other functionalities

Need to be configured in 3 steps:

- Use the Windows PPAdmin tool to setup the required rules.
- Test the rules
- Download the configuration files to the AP-ELP or put the proper ELP command into the data stream.

8 Installation and configuration of the Windows W-WELP software

Download the configuration software from <u>www.stethos.com/e_welp.htm</u> (English) or <u>www.stethos.com/d_welp.htm</u> (German)

Install it, and run the PPAdmin Control Centre. In the first step, you need to set the software into the AP-ELP Emulation mode, as the pure Windows part does support more functionality. This is to prevent you to define rules, which may not apply in the AP- ELP version.		🗱 W-ELP Print Processor Admin	
e.g. C.Vinstaldir/convert.exe Workpath: C.Viprogramme/WELPVorms/ e.g. C.Vinstaldir/ Anuments: dtW/KDtH-ctW/KDtHconvert.ini - Deadlock Windows part does support more functionality. This is to prevent you to define rules, which may not apply in the AP- ELP version.			?
you need to set the software into the AP-ELP Emulation mode, as the pure Windows part does support more functionality. This is to prevent you to define rules, which may not apply in the AP- ELP version.			
Anuments: dtW/KD# -ctW/KD#convert.ini -P7 the AP-ELP Emulation mode, as the pure Windows part does support more functionality. This is to prevent you to define rules, which may not apply in the AP- ELP version. data does and the apple of t	1.1		
Emulation mode, as the pure Windows part does support more functionality. This is to prevent you to define rules, which may not apply in the AP- ELP version.	ne soffware info		
Windows part does support more functionality. This is to prevent you to define rules, which may not apply in the AP- ELP version. Show Logilies Show Logilies Last ELP Run Show Logilies Show Logilies Last ELP Run Show Logilies Last ELP Run Show Logilies Show Logilies Last ELP Run Show Logilies Show Logilies Show Logilies Last ELP Run Show Logilies Show Logilies Last ELP Run Show Logilies Show Logilies Last ELP Run Show Logilies Show		View	
does support more functionality. This is to prevent you to define rules, which may not apply in the AP- ELP version.	•	☐ Show execution program 🔽 Admin Tab 🔽 IniFile Tab 🖾 Install Tab	
Admin email Press ?-> eMail to see how to instal eMail information system PDF Dat Proor define rules, which may not apply in the AP- ELP version.		First install the optional Software before entering data mere	
is to prevent you to define rules, which may not apply in the AP- ELP version.	2		
which may not apply in the AP- ELP version.	is to prevent you	PDF Cat Etyprogramme/WELP\PDFGen\Bin\lincPDFC.exe Browse	
apply in the AP- ELP version.	,		
	,		
	ELP version.	Shows/Hides the QueueControl register tab Examples Ex	2

1. Mark the

DIMM version option

- 2. Apply the new setting
- 3. Exit the PPAdmin software
- 4. Restart the software to activate the changes. Now the DIMM / AP-ELP Emulation mode is active.

For first steps please click on the top right question mark and implement your rules.

9 Download the rules and forms to AP-ELP

Once the settings are made and everything is working you need to download the configuration to the AP-ELP Box.

Normally there are 2 types of files downloaded form the WELP\forms directory:			
Your rules configuration file.			
In rare cases, additional ruled ini-files may be needed, using the ini-file key iniFile= In the convert.ini file: Before downloading the convert.ini in this case, you need to change the iniFile= statements from the Windows based path to the AP-ELP Box based path: c:\programme\welp\forms\xxxx.ini to /mnt/usbdisk/runs/xxxx.ini			
Please download only the mac files you have created.			

IMPORTANT: ALL FILENAMES ON THE AP-ELP BOX NEED TO BE STORED IN lower case!

Select file to download

 Durchsuchen...
 Store

 File on Print Server
 ...

 Location : runs/
 ...

 •
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In order to download the files please open your Browser and type in the TCP/IP address of your box and browse to the runs folder:

Select each file you want to transfer normally out of the c:\programme\welp\forms and transfer it to the AP-ELP box. The next job arriving will be treated according the defined rules.

10 Declarations of conformity

We, stethos GmbH Weimarer Str. 48 71065 Sindelfingen Germany Phone: +49 7031 860910 Fax: +49 7031 871444 e-mail: support@stethos.com info@stethos.com

declare under our sole responsibility that the product

AP-ELP, ELP Appliance and AP-ELP v3

to which this declaration relates, are in conformity with the following standards and/or other normative documents.





We hereby declare that the above named product is in conformity with the essential requirements and other relevant provisions of Telecommunication directive (Dz. U.2000, nr 73 pos. 852). The technical documentation relevant to the above equipment will be held at

stethos GmbH Weimarer Str. 48 71065 Sindelfingen Germany

(Signature) March 6th, 2006 (Date)

Stefan Schmidt (Name) Marketing Manager (Title)

11 Support

If you encounter any problems with the box, please follow the steps described below:

- Make sure that the log of the box is activated (in the printer settings):

O lan2usb			
IP Address	192.168.0.24		
Port	9100		
PJL			
Log Warning: Remember	to restart the Print S	Gerver after the m	odifications.
		Home	Save

- Restart the print server.
- Download the current convert.ini to your local machine:
 - Go to storage management
 - Click on "runs"
 - Click on the file an select "download"

😋 🕞 👻 🙋 http://192.168	.0.120/cgi-bin/jbox.cgi?page=28sav	/e=08dir=runs 🔽	Google	2
Datei Bearbeiten Ansicht Ea	ivoriten E <u>x</u> tras <u>2</u>			
AP-ELP PrintServer			🔄 • 🖾 - 🖶 • E	- Seite 👻 🍈 Extras 👻
Select file to downlo	ad			1
			Durchsuchen	Store
File on Print Server				
			,	
File on Print Server				
	-		,	
	 convert.ini			

 Add the following commands to your downloaded convert.ini: Log_Mode=101 Debug_OutData=ON Debug_InData=ON

- Mark the old ini-file:

File on Prin	t Server		
Location :	runs/		
		 convert.ini	¥

- And then press the delete-button at the bottom of the page:

		out_data.prn		
Delete	Create Dir			
			Home	

- Upload the convert.ini to your runs-folder (storage management) and store it like this:

Go to Storage Management / runs.

Select the file to download (to the box) by pressing the search-button (in German: "Durchsuchen").

oberon serves byordpring		Storage Ma	nagement	stethos
Select file t	o downloa	d		
			Durchsuchen	Store
File on Prin	t Server			
Location :	runs/			
		convert.ini		
		ianan def 00		

Now choose the new convert.ini within the file dialog of your operating system and click on open.

swyndgrenig	
Select file to download	
C:\Dokumente und Einstellungen\Manuel\Desktop\convert.ini	Store
File on Print Server	
Location : runs/	
F	

And then hit the store button.

- Process a print job.
- Download (to your local machine) and send us the following files: convert.ini, in_data.prn, out_data.prn, log_file.txt, your print job and all your used macro files from storage management/runs

For any support request please use the following contact information

Please open the PPAdmin software -> License Tab -> about to find your local distributor or contact:

stethos GmbH Weimarer Str. 48 71065 Sindelfingen Germany Phone: + 49 7031 860910 Fax: + 49 7031 871444 e-mail: support@stethos.com info@stethos.com

12 Product numbers and options

AP-ELP can be ordered through your local distributor. If you need help to find a reseller just let stethos know.

Product No	Description
ELPAPOO1 ELPAPOO2 ELPAPOO3 ELPAPOO4 ELPAPO11 ELPAPO12 ELPAPO13 ELPAPO14 ELPAPO15	AP-ELP appliance for 1 printer (either networked or USB) USB Cable from AP-ELP Box (Type-A) to printer (Type-B) Cable from AP-ELP Box (USB Type-A) to printer (Centronics) Gender changer from Centronics (female) to mini Centronics 1 year maintenance* 2 years maintenance* 3 years maintenance * 4 years maintenance * 5 years maintenance *
	- /

*Check your supplier for terms and conditions of the maintenance option