

How to Update Firmware Logic and BOOTmonitor with the BLUP

BLUP = BinTec Large Update

For updating to the new BOOTmonitor and the Firmware Logic, BinTec will provide a single software file (BLUP = BinTec Large Update) that contains all necessary updates, i.e. the BOOTmonitor and the Firmware Logic (for the basic unit as well as for expansion cards).

Updating your BinTec Router

The update is carried out using the BOOTmonitor. To carry out an update of your BinTec Router Software, proceed as follows:

Configure a computer in your local network to act as TFTP server. For a Windows PC, you can use the TFTP server of **DIME Tools** (see the documentation for **BRICKWare for Windows** which you can download from our webserver).

Copy the BLUP update file (e.g. bl615.x8a) downloaded from BinTec's Web server to the TFTP folder of the TFTP server in your local network.

Log in on your router from a computer serially connected and reboot the router by typing `cmd=reboot` in the SNMP shell.

Caution!

The update operation involves the risk that if updating one of these files fails, e.g. due to a power cut, it may no longer be possible to boot your router, i.e. it is damaged. You would then have to send your router in to your vendor.

If the update procedure is interrupted, e.g. due to a power cut or switching off the router, it may no longer be possible to reboot the router.

The update procedure must not be interrupted.

How to Update to bl615.x8a with the BLUP

Your router restarts. When self tests are completed, the following line shows:

Press <sp> for boot monitor or any other key to boot system

Now press **Space** within four seconds to enter BOOTmonitor mode (please note that all values shown here are examples only).

X8500 Bootmonitor V.6.1 Rev. 1 (Patch 2) from 2001/10/10 00:00:00
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- (1) Boot System
- (2) Software Update via TFTP
- (3) Software Update via XMODEM

- (4) Delete Configuration
- (5) Default Bootmonitor Parameters
- (6) Show System Information

To update the router choose 2 again and confirm with **Return**. Again you must enter the IP address of your router, the IP address of the TFTP server and the file name of the file to be updated, in this case the BLUP bl615.x8a, and confirm every entry with **Return**.

The menu (6) Show system information is only displayed when the BOOTmonitor has version 5.1.5 or higher.
It enables you to display some useful information about X4000, e.g. serial number, MAC address, current software, and so on.

```
Your choice> 2
Enter local IP address [192.168.1.254]:
Enter IP address of TFTP server [192.168.1.1]:
Enter file name of image [b6105.x8a]: bl615.x8a
```

Are your entries correct (y or n) ?

Reexamine your settings. If they are correct, confirm with y and the **Return** key.

```
Starting file transfer .....OK (803336 bytes received)
Checking new image ... OK
```

```
Your current software release is -1.-1.-1.
Loaded new image has release 0.0.
```

Now choose from the following:

- (r) Write image to RAM and start it
- (e) Exit

Enter (r or e): r

To update the Software press r and confirm with Return.

```
Booting BOSS...
boss image started at 0x82d034
```

```
X8500 BLUP V.(SRC) from May 13 2002 15:52:17
Copyright (c) 2001 by BinTec Communications AG
```

List of files in this update:

Version	Length	Name
1.3	131124	Logic
6.1.11	131124	Bootmon
1.9	70028	x8e-2bc.x8a
2.9	70028	x8e-2bc-v2.x8a
2.3	70028	x8e-4pri.x8a
1.2	167108	x8e-sync.x8a

Proceed with update (y or n) ? y

Confirm with y to update all necessary files and to save the files to flash.

*** Don't power-off your router while the update takes place ***

Updating Logic

New logic has release 1.3.
Erasing Flash-ROM .. OK
Writing Flash-ROM .. OK
Verify Flash-ROM .. OK

Updating Bootmon

New bootmonitor has release 6.1.11.
Erasing Flash-ROM .. OK
Writing Flash-ROM .. OK
Verify Flash-ROM .. OK

Updating x8e-2bc.x8a

skipped, already in flash

Updating x8e-2bc-v2.x8a

skipped, already in flash

Updating x8e-4pri.x8a

Perform Flash-ROM update

Update Flash-ROM .. OK
Verify Flash-ROM .. OK

File update successfully finished

Updating x8e-sync.x8a

Perform Flash-ROM update at 0xffe20000 len 167108

Update Flash-ROM ... OK
Verify Flash-ROM ... OK

File update successfully finished

Rebooting...

X8500 (Hardware-Rev. 1.3, Firmware-Rev. 1.3)

FPGA Load ... passed (Rev. 0.28)
CPU Check ... passed (MPC 603ev @ 262/75.0 MHz)
SDRAM Check passed (64 MByte)
FLASH Check .. passed (2 MByte)
MAC-1 Check ... passed
MAC-2 Check ... passed
ISDN Check ... passed

Selftest passed

Press <sp> for boot monitor or any other key to boot system

Searching image on Flash Card
Booting image from Flash CardOK (1277952 bytes)
Checking image ... OK
Writing image to RAM (Release 6.1.5)
..... OK (3059504 bytes)
Booting BOSS...
boss image started at 0x534610

BOSS PPC kernel v2.0 (X8500)
Copyright (c) 1999-2000 by BinTec Communications AG
Version V.6.1 Rev. 5 from 2001/11/28 15:50:41

The system is coming up.

Speed index... 174.59 MIPS

Init modules:

slot: BoardId SerialNo

0: X8A-SYS X8A130001030016 loading ... ok

Scanning devices

1: empty.

2: empty.

3: empty.

4: X8E-2BC 8BC200001370042 loading ... x8e-2bc-v2.x8a v2.9 ok

Scanning devices ...tZilog= 0x002c68d0

5: X8E-4PRI 8PR120001040028 loading ... x8e-4pri.x8a v2.3 ok

Scanning devices

6: X8E-DSP 8DS120001300013 loading ... x8e-4pri.x8a v2.3 ok

Scanning devices

7: empty.

8: empty.

InstallModules = 0x4

The system is ready.

AUTOEXEC:

- 1 date Wed May 15 16:22:24 2002 done
- 1 mountd done
- 2 configd SystemId: X8A130001030016 done
- 10 isdnd background
- 11 isdnaucf background
- 20 x25swd background
- 20 frd background
- 21 mpxd background
- 50 ipd background
- 51 snmpd background
- 51 telnetd background
- 51 syslogd background
- 51 minipadd background
- 51 txd background
- 66 httpd background
- 67 pppxd background
- 68 pppoed background
- 69 tud background

70 routed background
70 radiusd background
70 pppd background
70 tafd background
80 bridged background
90 timed background
97 ipalived background
98 statusd background
99 bootpd background
BOOTP: IP address already set
99 traced background
99 dnsmasq background
99 isdnlogind background
99 dhkeyd background
99 vncapd background

Welcome to X8500 version V.6.1 Rev. 5 from 2001/11/28 15:50:41
systemname is x8500, location European Union

Login:

Now the update of all necessary files is complete