

How to Update to System Software Release 6.1.2 with BLUP

BLUP = BinTec Large Update

System Software Release 6.1.2 requires a more thorough update of your router's software than other updates have done so far. You have to update not only the System Software itself, but the BOOTmonitor and the Firmware Logic (for the basic unit and your expansion cards alike), as well. For updating to the initial release of system software version 6.1.2, BinTec will provide a single software file (BLUP = BinTec Large Update) that contains all necessary updates, i.e. the BOOTmonitor, the Firmware Logic (for the basic unit as well as for expansion cards) and the system software.

Later, the individual files will be available, too. Please, look for the update files on BinTec's webserver at <http://www.bintec.net>.

Special note:

Licensing of Hardware modules is required since Release 6.1.2.

You will find some information on

<http://www.bintec.de/cgi-bin/faqde/faq.pl?suchen&24>

For older software images no license keys are required.

Updating your BinTec Router

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

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

Copy the BLUP update file (e.g. bl6102.x4a) downloaded from BinTec's Web server to the TFTP folder on your 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 System Software Release 6.1.2

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).

```
BINTEC X4000 Bootmonitor V. 5.1 Rev. 5 from 2000/08/07
Copyright (c) by BinTec Communications AG
(1) Boot System
(2) Software Update via TFTP
(3) Software Update via XMODEM
(4) Delete Configuration
(5) Default Bootmonitor Parameters
(6) Show system information
```

Your choice>

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 bl6102.x4a, 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 [b5106.x4a]: bl6102.x4a
```

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
(1
661928 bytes received)
Checking new image ... OK
```

Loaded new image has release 6.1.2.

Now choose from the following:

```
(u) Update Flash ROM
(r) Write image to RAM and start it
(e) Exit
```

Enter (u, r or e):

To update the Software press r and confirm with Return.

Booting BOSS...

boss image started at 0x82a034

BINTEC-X4100 BLUP V.6.1 Rev. 2 from 2001/09/26 00:00:00

Copyright (c) 2001 by BinTec Communications AG

List of files in this update:

Version	Length	Name
2.1	65588	Logic
6.1.2	131124	Bootmon
6.1.2	1235266	Boss
2.0	70028	x4e_2pri.x4a
1.2	12097	x4e_3bri.x4a

Proceed with update (y or n) ?

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 2.1.

Erasing Flash-ROM . OK

Writing Flash-ROM . OK

Verify Flash-ROM . OK

Updating Bootmon

New bootmonitor has release 6.1.2

Erasing Flash-ROM .. OK

Writing Flash-ROM .. OK

Verify Flash-ROM .. OK

Updating Boss

New software release is 6.1.2

Erasing Flash-ROM OK

Writing Flash-ROM OK

Verify Flash-ROM OK

Updating x4e_2pri.x4a

Perform Flash-ROM update

Update Flash-ROM .. OK

Verify Flash-ROM .. OK

File update successfully finished

Updating x4e_3bri.x4a

Perform Flash-ROM update

Update Flash-ROM . OK

Verify Flash-ROM . OK

File update successfully finished

Rebooting...

X4000 (Hardware-Rev. 2.0, Firmware-Rev. 2.1)

CPU Check ... passed (MPC 8XXT D3)
SDRAM Check passed (16 MByte)
FLASH Check passed (4 MByte)
ISDN Check ... passed
100BT Check ... passed
I2C Check ... passed
TEMP Check ... mainboard +42.0 celsius
MMI Check ... passed (Id: 41/41)

Check slot ... found <X4E-2FE> (HW-Rev 1.2, FW-Rev 1.0)
Serial-No. 4FE120000430151
MAC-1 Check ... passed
MAC-2 Check ... passed

Selftest passed

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

Booting Image from Flash ROM
Checking image ... OK
Writing image to RAM (Release 6.1.2)
.....
..... OK (2984012 bytes)
Booting BOSS...
boss image started at 0x540590

BOSS PPC kernel v2.0 (BINTEC-X4000)
Copyright (c) 1999-2000 by BinTec Communications AG
Version V.6.1 Rev. 2 from 2001/08/07 00:00:00

The system is coming up.

Speed index... 49.81 MIPS
Init modules:
slot: BoardId SerialNo
3: CM-SERIAL X4B200101260018 loading ... ok
Scanning devices ...
4: X4E-2FE 4FE120000430151 loading ... ok
Scanning devices ...
InstallModules = 0x2

The system is ready.

AUTOEXEC:

1 date Mon Oct 18 23:43:30 2105 done
1 configd SystemId: X4B200101260018 done
2 mmid background
10 isdnd background
11 isdnautocf 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 pppoe 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 dnssd background
99 isdnlogind background
99 dhkeyd background
99 vcapid background
```

Welcome to BINTEC-X4000 version V.6.1 Rev. 2 from 2001/08/07 00:00:00
systemname is bintec, location bintec

Login:

Now the update of all necessary files is complete