



Release Notes

Firmware Logic

&

BOOTmonitor

Updates

October 28, 1999



Firmware and BOOTmonitor Updates

This document describes how and when to update firmware logic and BOOT-monitor versions.

1 Updating the BinTec ISDN Router's Firmware Logic and BOOTmonitor

To take advantage of new features on your BinTec product, you regularly have to update the router's OS, or system software. Depending on whether the new features are hardware dependent, you may also have to update the firmware logic and BOOTmonitor versions. Note that your product's firmware/BOOTmonitor can only be updated from the serial console at the BOOTmonitor prompt. Your product's system software version can be updated from the serial console or remote via the update command.

This document answers the following questions:

- What files does my product use?
- How do I detect the current firmware logic and BOOTmonitor versions?
- When should I perform an upgrade?
- Where can I get the files?
- How do I perform the upgrade?



Caution!

- Do not update your Logic or Bootmonitor images unless expressly instructed to do so. Normally, it is not necessary to upgrade these images. Only in exceptional cases is an upgrade explicitly recommended. The upgrade process involves an element of risk. Should the update of either of these files fail as the result of a power failure for example, the BRICK may not be able to boot.
- If you are unsure whether to upgrade or not, the tables below specify the appropriate versions available for your BinTec product, and if an update is recommended or not.

1.1 What files do I need?

The following table outlines the file naming conventions used for the various software images used by your BinTec product.

Product Group	File Naming Convention		
	Firmware logic	BOOTmonitor Version	System Software
Corporate Access	logic<LV>.<P>	bmon_<BV>.<P>	brk<SR>.<P>
Workgroup Access			brk<SR>.<P>
Personal Access			bgo<SR>.<P>

Table 1-1: File naming conventions

Where: P = Product, BV = BOOTmonitor Version, LV = Logic Version, and SR = Software Release.

1.2 How do I detect the Firmware Logic and BOOTmonitor versions?

- Connect a computer to your router via the serial port.
- On the computer start a terminal program (»console«). Unless you've changed the communication parameters, your product will use 9600bps, 8N1, XON/XOFF.
- Switch on the router or reboot it.
The self-test will report:
`### BIANCA/BRICK (Hardware-Rev. x.y, Firmware-Rev. x.y) ok ###`
where Firmware-Rev. x.y reports the firmware logic version
- Press the space bar to enter the BOOTmonitor. The first line:
`BIANCA/BRICK BOOTmonitor (V. a.b Rev. z from Dec 31 1999)`
identifies the BOOTmonitor version.
- Starting with software release 4.8.3, you can also determine the firmware logic version via the FWRelease field in the **biboAdmBoardTable** (row 0) from the SNMP shell.

1.3 When should I perform an upgrade?

Firmware

The following table lists the firmware logic version currently shipped and available for each BinTec product.

BinTec Product Group	BinTec Product	Newest Version	Currently Available from BinTec's FTP server	Update
Corporate Access	BIANCA/ BRICK-XL/ XL2	2.5	logic25.xl	update if you want to install SIMMs of other than 8 MBytes
	BIANCA/ BRICK-XMP	1.0	n.a.	update not recommended
Workgroup Access	BIANCA/ BRICK-XM 1MB	2.9	logic26.xm	if your logic version is <1.7 and you want to install 8MB of RAM in your BRICK XM
	BIANCA/ BRICK-XM 2MB	2.9	logic26.xm	update not recommended
	BIANCA/ BRICK-XS 1MB/2MB	2.0	logic20.xs	update not recommended
Personal Access	BinGO!	2.0	logic20.bg	update not recommended
	BinGO! Plus/Profes- sional	1.3	n.a.	update not recommended
	V!CAS	2.0	logic20.vc	update not recommended



Note that some products may ship with more recent firmware logic versions (see Newest Version) that are not available via the FTP Server and are also not required on older systems. So make sure to check the version you have currently installed, see [chapter 1.2, page 5](#), and do not downgrade!

BOOTmonitor

The following table lists the BOOTmonitor version currently shipped and available for each BinTec product.

BinTec Product Group	BinTec Product	Newest Version	Currently Available from BinTec's FTP server	Update
Corporate Access	BIANCA/ BRICK-XL2	5.1.1	bmon_493.xl	recommended for XL2 only
	BIANCA/ BRICK-XMP	5.1.1	n.a	update not recommended
Workgroup Access	BIANCA/ BRICK-XM1	5.1.1	bmon_481.xm	update not recommended
	BIANCA/ BRICK-XM2	5.1.1	bmon_481.xm	update to version ≥ 481 if you want support for the CM-100BT Fast Ethernet module
	BIANCA/ BRICK-XS1	5.1.1	n.a.	update not recommended
	BIANCA/ BRICK-XS2	5.1.1	n.a.	update not recommended

BinTec Product Group	BinTec Product	Newest Version	Currently Available from BinTec's FTP server	Update
Personal Access	BinGO!	5.1.1	n.a.	update not recommended
	BinGO! Plus/ Professional	5.1.1	n.a.	update not recommended
	V!CAS	5.1.1	n.a.	update not recommended



Note that some products may ship with BOOTmonitor versions (see Newest Version) that are not available via the FTP Server and are also not required on older systems. So make sure to check the version you have currently installed, see [chapter 1.2, page 5](#), and do not downgrade!

1.4 Where can I get the files?

System software images, firmware logic and BOOTmonitor files are available from the FTP Server (section: Download) of the BinTec Communications AG WWW site at <http://www.bintec.de>



Before you start updating either the firmware logic or the BOOTmonitor make sure that the versions available from our FTP server are not already installed on your router and that an update is really necessary (see [chapter 1.3, page 5](#) above).

1.5 How do I perform the upgrade?

You can upgrade the system software, firmware logic and BOOTmonitor from a single BOOTmonitor session (without rebooting between upgrades). When performing multiple upgrades always perform them in the following order.

1. Firmware Logic
2. BOOTmonitor
3. System Software (can also be updated via remote)

To upgrade the router's firmware logic, BOOTmonitor or system software, perform the following steps exactly in the order shown.



Note that if an interruption occurs during the upgrade, especially, if the router gets switched off while updating its flash ROM, it may not be able to boot.

- If you haven't already done so, configure one of the computers on the local network as a TFTP server (for PCs this can be done using the DIME Tools from the BRICKware, please refer to your online BRICKware manual for details).
- Copy the required file(s) to the TFTP directory on a TFTP server on the local network. Make sure that the files were copied correctly, firmware logic and BOOTmonitor files are always 65588 bytes long.
- Login on the router console and reboot the system. Press the space bar to enter the BOOTmonitor. Perform a Software Upgrade via TFTP, option 2. You have to enter the local IP address, IP address of the TFTP server, and the exact name of the file you wish to upgrade.

- After the BOOTmonitor reports the success of the upgrade(s), switch the system off and back on again, and check whether the router now reports the new upgraded versions of the firmware logic and/or BOOTmonitor.