http://www.bintec.de

RELEASE NOTE

BIANCA/BRICK, V!CAS, and BinGO!

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Updating the BinTec ISDN Router's Firmware and BOOTmonitor

To take advantage of new features on your BinTec product you regularly have to update the BRICK/BinGO!'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 products'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:

1. What file(s) does my product use?
2. How do I detect the current firmware logic and BOOTmonitor versions?
3. When should I perform an upgrade?
4. Where can I get the files?
5. How do I perform the upgrade?

What file(s) 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[a]		
	Firmware Logic	BOOTmonitor Version	System Software
BRICKS	logic<*LV*>.<*P*>	bmon_<*BV*>.<*P*>	brk<*SR*>.<*P*>
BinGO!S			bgo<*SR*>.<*P*>
V!CAS			vic<*SR*>.<*P*>

a. Where: P = Product (XL,XM, XM2, XS, XS2, BG, BGP, or VC), BV = BOOTmonitor Version, LV = Logic Version, and SR = Software Release.

How do I detect the Firmware Logic and BOOTmonitor versions?

1. Connect a computer to your router via the serial port.
2. On the computer start a terminal program (»console«). Unless you've changed the communication parameters, your product will use 9600bps, 8N1, XON/XOFF.
3. 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.
4. 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.
5. 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.

When should I perform an upgrade?

Firmware

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

BinTec Product	Newest Version	Currently Available via BinTec's FTP Server	Update if...
BRICK-XL2	2.4	logic23.xl	your logic version is <2.0 your logic version is 2.1 **and** you are using BIANCA/CM-PRI and/or FM-8MOD modules
BRICK-XM-1MB	2.9	logic26.xm	your logic version is <1.7 **and** you want to install 8MB of RAM in your BRICK-XM (see separate release note)
BRICK-XM-2MB	2.9	logic26.xm	update not necessary
BRICK-XMP	1.0	n.a.	update not necessary
BRICK-XS/XS *office*-1MB	2.0	logic20.xs	update recommended
BRICK-XS/XS office-2MB	2.0	logic20.xs	update recommended
V!CAS	2.0	logic20.vc	update recommended
BinGO!	2.0	logic20.bg	update recommended
BinGO! Plus/Professional	1.3	n.a.	update not necessary

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.

BOOTmonitor

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

BinTec Product	Newest Version	Currently Available via BinTec's FTP Server	Update ...
BRICK-XL2	4.9.3	bmon_493.xl	update recommended
BRICK-XM-1MB	4.9.1	bmon_481.xm	update not necessary
BRICK-XM-2MB	4.9.1	bmon_481.xm	to version ≥ 481 if you want support for the CM-100BT Fast Ethernet module
BRICK-XMP	4.9.1	n.a.	update not necessary
BRICK-XS/XS *office*-1MB	4.9.1	n.a.	update not necessary
BRICK-XS/XS *office*-2MB	4.9.1	n.a.	update not necessary
V!CAS	4.9.1	n.a.	update not necessary
BinGO!	4.9.1	n.a.	update not necessary
BinGO! Plus/Professional	4.9.1	n.a.	update not necessary

Note that some products may ship with more recent BOOTmonitor versions (see Newest Version) that are not available via the FTP Server and are also not required on older systems.

Where can I get the files?

System software images, firmware logic, and BOOTmonitor files are available from the *FTP Server* section of the BinTec Communications 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 section When should I perform an upgrade? above).

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 an error is reported, try to update the file again *without* switching the router off.

1. 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).
2. 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.
3. 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.
4. 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.