



**RELEASE NOTE**  
**BIANCA/BRICK-M**

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27.09.1996

## **New System Software Release 4.2.3**

The new BIANCA/BRICK-M system software release 4.2 revision 3 contains new features and corrects some problems in the driver for the CM-PRI S<sub>2M</sub> module.

[Performing the Update](#) is explained on [Page 2](#).

Once Software Release 4.2.3 is installed, you will find:

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When upgrading your BRICK-M, it is recommended that you also use the most recent version of *BRICKware for Windows* and *UNIXTools*. Both can be retrieved from BinTec's FTP server at <http://www.bintec.de>

## Performing the Update

To upgrade your BRICK-M to version 4.2.3 follow the instructions in Chapter 2 of the *User's Guide*. You can continue to use your existing configuration files once you have installed and booted the new PROM version.

## New Features

### New Communications Module

The BRICK-M now supports the UP0 interface to the ISDN with BinTec's newest communication module, the CM-2UP0.

### LAN Interfaces

The BRICK-M now reports problems with its LAN interface (e.g., unable to transmit packets due to too many collisions, cabling is not attached, etc.) to the ***biboAdmSyslogTable***.

## MIB Changes

### New System Tables

A new system table, the ***pmxIfTable*** has been added to the interfaces group in version 4.2.3 to simplify configuring BRICKs with CM-PRI modules. The new ***pmxIfTable*** also corrects the following problems with the S<sub>2M</sub> driver:

- The results of the module's self test are readable.
- The Layer1-Status is more clearly defined (i.e., ***pmxIfLayer1State*** can now be:  
active (1)                      remote\_alarm (2)

no\_signal (3)      no\_sync (4)  
 crc\_error (5)

- Layer1 Framing can now be set to exclude CRC checksums (i.e., may be required for France or Sweden).
- Hyperchannels for leased line connections are now supported. A hyperchannel is configured by combining multiple B-channels into one transmission channel. Up to 30 B-channels (using CM-PRI S<sub>2M</sub>) can be combined for a maximum data rate of 1920 KB/sec.

An example display of the **pmxIfTable** is as follows:

```
brick:>pmxIfTable

   inx Index(*ro)      Selftest(ro)      Layer1State(rw)
   Layer1Mode(ro)     Layer1Framing(rw) Layer1LineCode(rw)
   ChannelMode(rw)    LoopbackMode(rw)  Errors(ro)

00 3000                successful        no_signal
   e1                   e1_crc           e1_hdb3
   e1_standard          no_loop          0

brick:pmxIfTable>
```

## Bug Fixes

### ISDN

- Previously, if multiple isdnlogin connections were established and one connection was closed, all remaining isdnlogin connections were inadvertently terminated.

### S<sub>2M</sub> Only:

- Performance for the S<sub>2M</sub> driver has been greatly improved in version 4.2.3. Under conditions of high system load (many packets being sent/received over many channels), the BRICK no longer drops incoming packets. Previ-

ously, this lead to retransmission requests for higher level protocols and to limited transfer rates.

- In rare cases of high system loads, the automatic opening of additional ISDN channels lead to inadvertent system restarts. This problem has been eliminated.
- The communications module self test now operates properly with ISDN interfaces that do not comply with the CRC4 standard (Sweden). Previously, the self test incorrectly reported errors when connected to such interfaces.

## CAPI

### CAPI 2.0:

- Incoming DTMF Indication now works correctly.
- CAPI\_INFO\_IND IE-Element was improperly coded in previous releases.

## X25

- Incoming calls using ISO8208/X.25 protocol are now correctly set to DCE.