

# PFA Products Release Notes for V4.0.0

PFA 030

PFA 130

PFA 230

PFA 660

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# 1. Product Description

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## 1.1 Introduction

These release notes are intended to offer the local Ericsson company information concerning the current release of PFA products. The PFA product range for this release is as follows:

### **PFA 030**

Up to 6 serial ports (protocols listed below)

### **PFA 130**

Up to 6 serial ports (protocols listed below)

1 LAN port

### **PFA 230<sup>1</sup>**

Up to 18 serial ports (protocols listed below)

Up to 2 LAN ports

Integrated Router Board (Ethernet or Token Ring)

Hot-swap Fan

### **PFA 660<sup>1,2</sup>**

Up to 18 serial ports (protocols listed below)

Up to 2 LAN ports

1 ATM port (34 Mbps E3 or 45Mbps DS3)

Integrated Router Board (Ethernet or Token Ring)

Hot-Swap Fan

AC-AC or DC-DC PSU Redundancy

### **Protocol Set**

X.25 switching | SDLC and TCP/IP over X.25/X.75 | X.75(E) |  
SDLC over LLC2 | Frame Relay switching (FUI/FDI/FNI) |  
X.25/X.75, TCP/IP or SNA over Frame Relay | SDLC | ISDN |  
X.28 | TPAD | All major LAN protocols (CISCO technology)<sup>1</sup> |  
ATM AAL-5 with Frame Relay FRF.5<sup>2</sup>

### **Feature Set**

HVCs/PVCs | CUGs | Call Barring | Traffic Priorities | Alarms |  
Load Control | Switched Access | Dial Back | Online Software Update |  
Statistics | Traffic/Echo Ports | Port Monitor | RIP |  
SLIP | TIP | TELNET | Ethernet Bridging | Port Monitor |  
Accounting | SNMP Network Management |  
Line/Network Testing

## 2. Release Description

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The V4.0.0 release differs from V3.2.x releases as follows:

i) New Product: PFA 660. For Frame Relay (FRF.5) concentration into E3 or DS3 core ATM networks.

ii) New functionality to existing product range:

- SNA over Frame Relay
- Frame Relay NNI (FRF.2)
- MP/LCP

iii) Other enhancements:

- Blind LCNs on incoming calls now 250
- Up to 32 X.25/X.75 LP/NP stacks over FR
- Wild card routing possible on any address match (DTEs, Number directions, etc.)

iv) Bug fixes included (reported from V3.2.x releases).

### 2.1 Basic Components

This release is for the following products (software not included):

<b>Product</b>	<b>Product Number</b>
<i>PFA 030</i>	<i>BFE 301 539/3 R2B (for AC supply)</i> <i>BFE 301 539/4 R2B (for DC supply)</i>
<i>PFA 130</i>	<i>BFE 301 539/5 R2B (for AC supply)</i> <i>BFE 301 539/6 R2B (for DC supply)</i>
<i>PFA 230</i>	<i>BFE 301 542/3 R1A (for AC supply)</i> <i>BFE 301 542/4 R1A (for DC supply)</i>
<i>PFA 660</i>	<i>BFE 301 546/1 R1A (for AC supply)</i> <i>BFE 301 546/2 R1A (for DC supply)</i>

The PFA products can be ordered from your local Ericsson Regional Logistics Centre.

## 2.2 Numbering Conventions

### 2.2.1 Software Versions

The numbering of software versions in the PFA products is carried out as follows:

X.Y.Z

Where:

- X Version (e.g., 4). This X value would be incremented to indicate a major change in development, e.g. changing from Phase1 to Phase2 of a Product Development.
- Y Revision (e.g., 0). The Y value would be incremented in the event of additional functionality being added to the product.
- Z Error Correction (e.g., 1). The Z value would be incremented if a problem(s) existed with the product which would necessitate a bug-fix release.

### 2.2.2 Software Image Names

The default software image despatched in every PFA product will be shown as "PFA PROM IMAGE" with the UIDIP command.

For **downloadable** software images available from upgrade diskette, the image names are structured as follows:

PRODUCT	PRO-CESSOR	RELEASE VERSION	REVISION	FILE EXT.	EXAMPLE
PFA 030/130/230	3	V400	R23	DOS	3V400R23.DOS
PFA 660	6	V400	R23	DOS	6V400R23.DOS
PFA 660	6	V400	R7	SAR	6V400R7.SAR

The PFA PROM IMAGE or 6V400R23.DOS file and 6V400R7.SAR must both be present when a PFA 660 is operating with an ATM daughter board.

It is advised that image names should indicate software version, revision number and processor type at all times.

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## 2.3 Corrected or Remaining Problems

### 2.3.1 Corrected V3.2.x Problems

The problem numbers quoted are of the format CBEanxxxxx where xxxxis the problem number shown below, e.g. 03120.

#### 3.2.x Description

- 03120 The UIDSS command no longer accepts the SLOT parameter.
- 03208 AuthenticationFailure trap does not include SNMP manager's IP address and community string.
- 03233 Ringing restarts problem in X.75 over Frame relay connections.
- 03238 STPPP statistics for Frame Relay ports do not add up, i.e. FRAMES > CIR/EIR or OCTETS > CIR/EIR fields.
- 03349 Policing of CIR on Frame Relay PVCs problem: CIR can be added twice if the PVC is deblocked twice. This can appear to exceed ACCCIR in exceptional circumstances but ACCCIR will never actually be exceeded.
- 03391 On startup, the PFA 230 reports Token Ring IRB is fitted when there is an Ethernet IRB fitted.

### 2.3.2 Remaining Problems

The problem numbers quoted are of the format CBEanxxxx where xxxxis the problem number shown below, e.g. 03590.

#### 4.0.0 3.2.0 Description

- |       |       |   |
|-------|-------|---|
| 03590 | 03215 | RIP2 Multicast addressing not supported.<br>Workaround: If possible, configure other equipment to use broadcast addresses instead of multicast addresses.                                   |
| 03576 | 03219 | SNMP community groups are searched in the order they were input. This can cause confusion if matching community strings for GET, SET or RESTRICTED exist in the same community group table. |
| 03591 | 03235 | No password protection on TELNET ports.   |
| 03592 | 03236 | Rate enforcement discards long frames in Frame Relay.   |
| 03593 | 03237 | NO CONIND_CFM causes problems for incoming call when NP blocked on V25bis port.   |
| 03594 | 03241 | An incoming call with no PID signalling and no call priority set will not be assigned the box default priority.   |
| 03595 | 03243 | NTN facilities not checked after a Switched Access Dial Back using NUI.   |
| 03596 | 03248 | No logon control to MTP port for network management.  |
| 03603 | 03250 | External flow off state not cancelled on entry to command state. Work around: Enter Ctrl.-Q when exiting from Command State.  |
| 03604 | 03251 | The PSAGP command does not indicate what USER/ROT is used by async port.  |
| 03606 | 03253 | UIPDS command does not work for NALOS parameters.   |
| 03612 | 03257 | Dial back should not use dialled NP.  |
| 03764 | -     | LOCIP parameter in the IPGAP command accepts invalid local IP addresses.  |
| 03868 | -     | OAM flow can make Virtual Port (VP) and FP go to automatically blocked but LMI can make VP and FP revert to original state.   |

Utfärdad av/Issued by

Datum/Date

Rev

Dok. npr/Doc.no.

CBE/ Andy Capstick

18/01/99

RC

EN/LZT 103 8305

Fastställd av/Approved by

CBE/ Bob Marles

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- 03871 - IP variable subnetting does not work correctly  
workaround: use classful subnet masks instead  
of ones of variable length.
- 03910 - X.21/V.11 POP PAK on Frame Relay port sometimes  
reports AB with the LIPPP command after both ends  
are reset at the same time.
- 03922 - Frame Relay PVCs can be in Conditionally Blocked  
state (CB) when underlying FP port is Automatically  
Blocked (AB).
- 03930 - ANAMI address modification entries when INTADDR=NONE  
do not get stored in the configuration.  
Workaround: Set a non-zero value for INTADDR even  
though it does not get used.
- 03931 - Address modification or access table entries with  
wildcard characters in the LOCADDR/INTADDR fields  
are not displayed with an ANAMP command even though  
they work correctly.
- 03934 - Topology table handling problem: issuing a SET to  
the DNA topology table occasionally does not work.  
Workaround: Attempt the SET command several times.
- 03936 - No STATR command for reset of ATM port statistics.
- 03950 - PFA 660 Watchdog problem. Fixed by patch installed  
in unit, i.e.  
  
UIDPS:IMAGE=<imagenam>,PATCH=400-01,LENGTH=1,  
ADDRESS=81673DB,DATA=90;
- 03953 - Permanent fault condition on async PP configuration.  
Fixed by patch installed in unit, i.e.  
  
For PFA 030/130/230:  
UIDPS:IMAGE=<image name>,PATCH=400-04,ADDRESS=7032F,  
LENGTH=1,DATA=13;  
  
For PFA 660:  
UIDPS:IMAGE=<image name>,PATCH=400-05,  
ADDRESS=808B731,LENGTH=1,DATA=A5;
- 03959 - PATCH field from PFA PROM IMAGE in UIDIP command  
always shows PATCH=NO even when a patch is installed.
- 03963 - The command UIDPP for PFA PROM IMAGE does not  
display installed patch information.

### *2.3.3 Problems in TransISDN POP PAK (Version PAN)*

02092 CLI not supported on TransISDN POP PAKs.

02184 TransISDN POP PAK software not remotely downloadable.

02321 128K bonding not available on TransISDN POP PAKs.

## 3. Upgrade Procedures

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**CAUTION: Ensure Default Gateways not associated with the local network are deleted before upgrade.**

### 3.1 Upgrading with Downloadable Image

Downloading of images is possible from local PC or across the network. For local PCs, images are normally downloaded by using an upgrade diskette (example upgrade below).

#### *3.1.1 Upgrading PFA 230 V3.2.x to V4.0.0 via Console Port: example using Win95/NT4.0.*

The image download is made possible by the ASCII transfer of the relevant image via PC and a suitable terminal emulator into the Flash EPROM of the PFA mother board.

#### **Equipment Required:**

PFA product with 8 Mbytes Motherboard DRAM.  
PFA V4.0.0 upgrade diskette (PFA 030/130/230)  
IBM-compatible PC with Microsoft Windows Win95/NT4.0.  
Serial port connection with 9-to-25 or 9-to-9 pin cable.

#### **Procedure:**

1. Connect the cable between the serial port and the 9-pin config port on the rear panel of the powered-on PFA product.
2. Go to the Start Menu in Win95/NT4.0 and Run:

A : / INSTALL

3. Load the Hyperterminal program. Select Open.. from File menu and locate and load the .TRM file from directory C:/PFA\_UPG/4\_0\_0. The settings should be:

DEC VT-52 emulation, Line wrap set, 9600 baud, 8 data bits, 1 stop bit, no parity, XON/XOFF Flow Control, Strip Linefolds. Line Delay is set to 1 millisecond (go to File.. properties, then Settings, then ASCII setup).

Note: if the settings are changed when a Hyperterminal session is connected the user must then disconnect then reconnect to bring in the new settings.

4. Ensure the correct serial port (COM1 etc.) is selected and press the <RETURN> key to obtain the "USERNAME:" prompt.
5. Log onto the PFA product as usual.
6. Enter the command:

```
UIDII: IMAGE=3V400R23.DOS;
```

This gives the display:

```
ENTERING DOWNLOAD MODE
WAITING FOR SRECORDS
<
```

7. At the < prompt, go to the menu bar, pull down the Transfers.. menu and select Send Text File..
8. Select the image name from the directory C:/PFA\_UPG/4\_0\_0 and load. The download will be indicated by < characters. The download is complete when the prompt appears again.
9. At the prompt, enter the UIDIP command to view the images present in the flash EPROM of the unit. Check if the relevant image is displaying STATUS=OK. If STATUS=BAD, remove the bad image by using the UIDIT command. Carry out the procedure again from Step 6.
10. To select the new image to be loaded upon restart enter:

```
UIDSS: IMAGE=3V400R23.DOS;
```
11. Enter the NAREI command to restart the unit. CAUTION: This will clear any calls.
12. Logon to the PFA product as usual.

NOTE: Terminal settings are DEC VT-52 emulation, Line wrap set, 9600 baud, 8 data bits, 1 stop bit, no parity, XON/XOFF Flow Control, Strip Linefolds.

## 4. Hardware

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### 4.1 Motherboard Maintenance

If any motherboard has to be returned in the future for a hardware upgrade, please send to:

Ericsson Telecommunicatie B.V.  
ESC  
Ericssonstraat 2  
5121 ML Rijen  
Netherlands

### 4.2 Displaying Hardware Status

The hardware status of the delivered PFA product can be displayed by using the NAHSP command. Note that this may not indicate the minimum level of hardware but the hardware ordered according to customer requirements, e.g. a PFA 660 may be ordered with 32 Mbytes RAM instead of 16 Mbytes.

### 4.3 DC Unit Safety Notice

**CAUTION:** The power feed cables must be protected at source; e.g. by a suitable fuse or circuit breaker. The fuse/breaker should not exceed 6A capacity.

## 5. Approvals

### 5.1 Electromagnetic Compatibility

Product Standard	Basic Standard	Description	Class/Level
EN55022:1994	EN55022:1994	Radiated Electric Field Emissions	B
	EN55022:1994	Power Line Conducted Emissions	B
	EN61000-4-2:1995	Electrostatic Discharge	6kV air, 8kV contact 8kV air, 15kV contact
	EN61000-4-3:1997	Radiated Electric Field Immunity	3V/m, AM 1KHz, 80%
	EN61000-4-4:1995	Burst Transient Immunity	0.5kV signal lines 1kV Power Lines
47CFR15:1995	ANSI C63.4:1992	Radiated Electric Field Emissions	A
	ANSI C63.4:1992	Power Line Conducted Emissions	A

### 5.2 Safety

Product Standard	Description
IEC 950	2nd Edition, 1991 + Amd. 1, 1992 + Amd 2, 1993 + Amd 3, 1995.
EN60950:1995	Safety of information technology equipment, including electrical business equipment. Incorporating Amendment No. 1, 2 and 3 and implementing Amendment No. 4.
UL1950 (AC only)	Safety of information technology equipment, including electrical business equipment. UL File Number E188999.

### 5.3 Telecoms

Regulation	Standard	Description
I-CTR2	TBR2	Attachment requirements for DTE to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT Recommendation X.25 interfaces at data signalling rates up to 1920 kbit/s utilising interfaces derived from form CCITT Recommendations X.21 and X.21 bis
I-CTR3	TBR3	Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access

If a Declaration of Conformity is required please contact either your local Ericsson company or Ericsson Intracom Ltd. at the address specified below.

Ericsson Intracom Ltd.  
1 Bede Island Road  
Leicester, LE2 7EU  
United Kingdom

Tel: +44 (0) 116 254 2400

Fax: +44 (0) 116 204 6111

## 6. User Documentation

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The following user documentation is required to install, operate and maintain the PFA products.

*PFA Products System Manual* (EN/LZT 102 2580 R3A). Hardcopy edition.

*PFA Products User Guide* (EN/LZT 102 2581 R3A). Hardcopy edition.

*PFA Products Command Survey* (EN/LZT 102 2582 R3A). Hardcopy edition.

*PFA Products CD-ROM* (EN/LZY 203 12 R4A). Contains all of the above user documentation plus PFA picture gallery and PFA datasheets.

Please order documentation through the usual Ericsson ordering process quoting the document numbers required.

Any errors existing in the above documentation are listed for each publication below.

### 6.1 System Manual Fault Log

Throughout. PFA 020/120 not released for V4.0.0 at present.

### 6.2 User Guide Fault Log

p. 188. The LCP parameter should show 1-1-1-MP(1-6) rather than 1-1-1-1-MP1-(1-2).

p. 254. T392 description should read "Interval during which time the DCE expects to receive a STATUS ENQ. in seconds".

p. 426. Where 1-127 should read 1-500. To cater for increased no. of ROTs supported in V4.0.

Section 17: MP/LCP. TPAD and X.75(E) Virtual Port object numbers for connection to an MP bundle are incorrect. The port objects for TPAD and X.75 have to be as follows:

TPAD 1-1-1-MP(1-6)-1  
X.75 1-1-1-MP(1-6)-2

### 6.3 Command Survey Fault Log

p. 19. FD\_CONN, TX\_CONN, RX\_CONN and MAX\_UBR parameters are now removed from LIATx commands.

p. 24. Parameters POLL, FASTSTART and ACCESS are now added to LILPS command.

## **7. PFA Product Support**

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All enquiries and requests for support in connection with this product must be directed to the local Ericsson company or distributor.