

PFA Products Release Notes for V4.0.1

PFA 030

PFA 130

PFA 230

PFA 660

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1. Product Description

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) plus 1 LAN port

PFA 230¹

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^{1,2}

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)¹ |

ATM AAL-5 with Frame Relay FRF.5²

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 | Accounting |

SNMP Network Management | Line/Network Testing

2. Release Description

The V4.0.1 release differs from the V4.0.0 release as follows:

i) Enhancements:

- Wild-card address matching in Address Modification tables.
- Y2K compliance
- Semi-permanent routes and gateways.
- POLL parameter in LILPS command can be set to NONE, as well as DISC and SABM.
- The originating “calling” NTN in an X.25 ping can now be configured.
- Calls which do not have a match with a conversion record are now passed through an Address Modification table.

ii) Bug fixes included (reported from previous releases).

2.1 Basic Components

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

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

The numbering of release 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 problems 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 TYPE	RELEASE VERSION	REVISION	FILE EXT.	EXAMPLE
PFA 030/130/230	68030	V401	R31	DOS	3V401R31.DOS
PFA 660	i960	V401	R31	DOS	6V401R31.DOS
PFA 660	i960	V400	R7	SAR	6V400R7.SAR

The PFA PROM IMAGE or 6V401R31.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 processor type, release version and revision number at all times.

2.3 Corrected or Remaining Problems

2.3.1 Corrected V4.0.0 Problems

The problem numbers (format CBEan0xxxx where xxxx is the problem number) are shown below.

4.0.0 Description

- 3871 IP variable subnetting does not work correctly.
- 3930 ANAMI address modification entries when INTADDR=NONE do not get stored in the configuration.
- 3931 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.
- 3934 Topology table handling problem: issuing a SET to the DNA topology table occasionally does not work.
- 3937 Address modification entries with INTADDR=NONE are not stored in config.
- 3939 POLL on LILPS cannot be set to NONE. POLL=NONE now added.
- 3950 PFA 660 Watchdog problem.
- 3953 Permanent fault condition on async PP configuration.
- 3959 PATCH field from PFA PROM IMAGE in UIDIP command always shows PATCH=NO even when a patch is installed.
- 3963 The command UIDPP for PFA PROM IMAGE does not display installed patch information.
- 3974 Ctrl.-C not stopping PFA MML output.
- 3975 RIP partial split horizon not working correctly.
- 3991 RIP losing updates when there are > 200 routes incoming.
- 3992 PFA 660 image cloning deletes the current image.
- 4004 Permanent fault condition when using UIDDI for image cloning on PFA 660.
- 4012 SLIP problem - PFA does not respond after modem puts down CTS.

2.3.2 Remaining Problems

The problem numbers quoted are of the format CBEanxxxxx where xxxxx is the problem number shown below, e.g. 03590, unless otherwise stated.

4.0.1 3.2.0 Description

03590	03215	RIP2 Multicast addressing not supported. 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.
03651	-	Fan/PSU SNMP traps not sent on power up.
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.

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-
- 03910 - X.21/V.11 POP PAK on Frame Relay port sometimes
/04029 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).
- 03936 - No STATR command for reset of ATM port statistics.
- 03996 - POP PAKs cannot be live inserted into PFA 660.
Workaround: Power down the unit before
inserting/removing POP PAKs.
- 04019 - Ctrl.-C does not stop MML output following a
PSPPIP command. Applies to PFA 660 only.
- 04035 - ICMP routes not deleted by IPRPD.
- 04045 - PFA 660 local upgrade to V4.0.1 with Win95
and Hyperterminal is not possible at >9600 baud.
Workaround1: use 9600 baud or WindowsNT.
- 04048 - A bogus PEB1 is reported on startup and in NAHSP
on a PFA 030. Fixed by patch installed in unit:

UIDPS:IMAGE=<imagenam>,PATCH=401-05,ADDRESS=DC6CC,
LENGTH=2,DATA=60&64;
- ERIXa00331 PFA 660 supposes the configuration needs saving when
LILAP is issued. This also occurs with SNMP manager get
request on LILAP variables. Fixed by patch installed in
unit:

UIDPS:IMAGE=imagenam,PATCH=401-06,ADDRESS=81B3DEB,
LENGTH=1,DATA=41;
- ERIXa00386 PFA 030/130/230 restarts when MTP session tries to
connect to PFA from a SUN workstation running X.25.
Fixed by patch installed in unit:

UIDPS:IMAGE=imagenam,PATCH=401-10,ADDRESS=BD0B8
LENGTH=4,DATA=70&0C&4E&75;

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.

2.4 Configuration patches

These patches allow the operation of the PFA product to be modified to suit a user's requirement; they are different to FAULT patches as they modify functionality rather than fix problems.

Such patches are not installed in the product on despatch and should only be installed if the patch is required.

Config Patch

This Config patch allows the X.28 logout period to be variable. The parameter DATA is the timeout in 50ms (1/20th s) expressed in HEX, i.e. 60 s = 60X20 = 1200 ticks = 4B0 (in HEX) = DATA=04&B0. DATA=00&00 is infinite timeout. To install the patches the user must restart the unit.

For PFA 030/130/230:

UIDPS:IMAGE=imagenam e,PATCH=401-01,ADDRESS=C8062,
LENGTH=2,DATA=04&B0;

UIDPS:IMAGE=imagenam e,PATCH=401-02,ADDRESS=C9C08,
LENGTH=2,DATA=04&B0;

For PFA 660:

UIDPS:IMAGE=imagenam e,PATCH=401-03,ADDRESS=811B46E,
LENGTH=2,DATA=04&B0;

UIDPS:IMAGE=imagenam e,PATCH=401-04,ADDRESS=811D95A,
LENGTH=2,DATA=04&B0;

3. Upgrade Procedures

Upgrade procedures are fully documented on the appropriate upgrade diskette for V4.0.1.

WARNING: All upgrades to V4.0.1 require a new BOOTER file to be installed.

The following diskettes are available from Ericsson Intracom (E-mail: intracom@terminus.ericsson.se):

- PFA 030/130/230 V4.0.1 Upgrade diskette (LZY 208 0450 R9A)
- PFA 660 V4.0.1 Upgrade diskette (LZY 208 0512 R1A)

4. Hardware

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 packet DRAM 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.

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5. Approvals

ITEM	ORDER CODE	ST	EN5 5022 Radi ated	EN5 5022 Con duct ed	EN6 1000 -3-2	EN6 1000 -3-3	FCC Part 15	IEC8 01-2	IEC8 01-3	IEC8 01-4	EN6 1000 -4-2	EN6 1000 -4-3	EN6 1000 -4-4	EN6 1000 -4-5	EN6 1000 -4-6	EN6 1000 -4- 11	ETS 300- 132- 2
Chassis Products																	
PFA020/120 AC	BFE 301 544/1/2	R2A	B	B				⊗	⊗	⊗	⊗	⊗	⊗				
PFA030/130 AC	BFE 301 539/3/5	R2B	B	B			A	⊗	⊗	⊗			⊗				
PFA030/130 DC	BFE 301 539 /4/6	R2B	B					⊗	⊗	⊗			⊗				
PFA230 AC	BFE 301 542/1/3	R2A	B	B				⊗	⊗	⊗	⊗	⊗	⊗				
PFA230 DC	BFE 301 542/2/4	R2A	B					⊗	⊗	⊗	⊗	⊗	⊗				
PFA660 AC	BFE 301 546/1	R1A	B	B	⊗	⊗					⊗	⊗	⊗	⊗	⊗	⊗	⊗
PFA660 DC	BFE 301 546/2	R1A	B								⊗	⊗	⊗	⊗	⊗	⊗	⊗
WAN Pop-Paks																	
V.11 DTE	ROA 219 5181/1	R1B	B								⊗	⊗	⊗	⊗	⊗	⊗	
V.11 DCE	ROA 219 5182/1	R1B	B								⊗	⊗	⊗	⊗	⊗	⊗	
V.28 DTE	ROA 219 5183/1	R1C	B								⊗	⊗	⊗	⊗	⊗	⊗	
V.28 DCE	ROA 219 5184/1	R1C	B								⊗	⊗	⊗	⊗	⊗	⊗	
V.35 DTE	ROA 219 5185/1	R2B	B								⊗	⊗	⊗	⊗	⊗	⊗	
V.35 DCE	ROA 219 5186/1	R2B	B								⊗	⊗	⊗	⊗	⊗	⊗	
V.36 DTE	ROA 219 5187/1	R1C	B								⊗	⊗	⊗	⊗	⊗	⊗	
V.36 DCE	ROA 219 5188/1	R1C	B								⊗	⊗	⊗	⊗	⊗	⊗	
G.703 64k	ROA 219 5189/1	R2A	B								⊗	⊗	⊗	⊗	⊗	⊗	
G.703 2M		R1A	B								⊗	⊗	⊗	⊗	⊗	⊗	
CHANNELISER (master)	ROA 219 8177/1	R2A	B					⊗	⊗	⊗	⊗	⊗	⊗				
CHANNELISER (slave)	ROA 219 8178/1	R2A	B					⊗	⊗	⊗	⊗	⊗					
ISDN Pop-Paks																	
Single ISDN TA	ROA 219 8157/1	R2A	A					⊗	⊗	⊗							
Dual ISDN TA	ROA 219 8158/1	R2A	A					⊗	⊗	⊗							
Ethernet Pop-Paks																	
10Base-2	ROA 219 5190/1	R1B	A					⊗	⊗	⊗							
10 Base-T	ROA 219 5196/1	R1B	B								⊗	⊗	⊗	⊗	⊗		
Token Ring			B					⊗	⊗	⊗							
ATM Pop-Paks																	
E3	ROA 219 8184/1	R1A	B								⊗	⊗	⊗				
DS3	ROA 219 8181/1	R1A	B								⊗	⊗	⊗				

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ITEM	ORDER CODE	ST	EN60950	UL1950	CTR2	CTR3	CTR12
Chassis Products							
PFA020/120 AC	BFE 301 544/1/2	R2A	☺				
PFA030/130 AC	BFE 301 539/3/5	R2B	☺				
PFA030/130 DC	BFE 301 539 /4/6	R2B	☺				
PFA230 AC	BFE 301 542/1/3	R2A	☺				
PFA230 DC	BFE 301 542/2/4	R2A	☺				
PFA660 AC	BFE 301 546/1	R1A	☺	☺			
PFA660 DC	BFE 301 546/2	R1A	☺	☺			
WAN Pop-Paks							
V.11 DTE	ROA 219 5181/1	R1B	☺	☺	☺		
V.11 DCE	ROA 219 5182/1	R1B	☺	☺			
V.28 DTE	ROA 219 5183/1	R1C	☺	☺	☺		
V.28 DCE	ROA 219 5184/1	R1C	☺	☺			
V.35 DTE	ROA 219 5185/1	R2B	☺	☺	☺		
V.35 DCE	ROA 219 5186/1	R2B	☺	☺			
V.36 DTE	ROA 219 5187/1	R1C	☺	☺	☺		
V.36 DCE	ROA 219 5188/1	R1C	☺	☺			
G.703 64k	ROA 219 5189/1	R2A	☺	☺			
G.703 2M		R1A	☺	☺			☺
CHANNELISER (master)	ROA 219 8177/1	R2A	☺	☺			
CHANNELISER (slave)	ROA 219 8178/1	R2A	☺	☺			
ISDN Pop-Paks							
Single ISDN TA	ROA 219 8157/1	R2A	☺	☺		☺	
Dual ISDN TA	ROA 219 8158/1	R2A	☺	☺		☺	
Ethernet Pop-Paks							
10Base-2	ROA 219 5190/1	R1B	☺	☺			
10 Base-T	ROA 219 5196/1	R1B	☺	☺			
Token Ring			☺	☺			
ATM Pop-Paks							
E3	ROA 219 8184/1	R1A	☺	☺			
DS3	ROA 219 8181/1	R1A	☺	☺			

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
E-mail: intracom@terminus.ericsson.se

6. User Documentation

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

PFA 020/120 not released for V4.0.1 at present.

6.2 User Guide Fault Log

p. 36. Figure 1-1 incorrectly shows that V.11 can operate on an
asynchronous protocol stack.

p. 69. For PFA 660, the NACCS command has an extra parameter
called DEFAULT which is used to specify the default config file to
load. This config should be used as a safeguard if a downloaded
image cannot execute so that the original PFA PROM IMAGE has
a valid config to load (i.e., a config which has not been updated
by the upgrade). Otherwise the unit will not be able to be
contacted.

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

p. 205. New parameter ORIG added to PSPIP command.

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

p. 315. New parameter OUTGOING added to IPGAI command. The parameter is used with the LC parameter to show that the LC parameter only refers to outgoing VCs (when OUTGOING=YES) or to both incoming and outgoing VCs (when OUTGOING=NO; default). If OUTGOING=YES, then the PFA accepts any VCs up to the max. value of LC (up to 8).

P. 315. New parameters CONFIG and TIMEOUT added to IPGAI command. These provide semi-permanent remote gateways.

Semi-Permanent Remote Gateways

IP remote gateways can be permanent and semi-permanent according to the value of the CONFIG parameter in the IPGAI command. Permanent IP gateways are configured with CONFIG=YES (this is the default); semi-permanent gateways are configured with CONFIG=NO. The TIMEOUT parameter in the IPGAI command sets up an inactivity timer which marks a semi-permanent remote gateway unused on expiry. This timer is reset each time an IP packet is received or transmitted over the gateway.

Semi-permanent gateways may be deleted if they are marked as UNUSED and if the gateway holding threshold value is exceeded (all associated IP routes are also deleted); if it is not exceeded gateways are not deleted but will still be marked as UNUSED. This value is configured with the IPGHS command and is used to protect a minimum number of gateways, which includes permanent gateways, irrespective of inactivity. The purpose of this threshold is to prevent network congestion after, for example, national holidays when the network might have been inactive for a number of days.

Permanent and semi-permanent gateways may be added up to a maximum configurable value. Gateway maximums and thresholds apply for each associated NI rather than for the entire node. Between the threshold value and the maximum value, unused semi-permanent gateways are deleted when a new gateway is added and the threshold is then exceeded and semi-permanent gateways are immediately deleted when marked unused if the threshold has already been exceeded.

Permanent gateways are not affected by this timer functionality.

p. 321. New parameters CONFIG and LIFETIME added to IPROI command. These provide semi-permanent IP routes.

Semi-Permanent Routes

IP routes can be permanent or semi-permanent according to the value of the CONFIG parameter in the IPROI command. Permanent routes are configured with CONFIG=YES (this is the default). Semi-permanent routes are configured with CONFIG=NO. The LIFETIME parameter in the IPROI command sets up a maximum lifetime for a semi-permanent route. On expiry, the route is deleted

without affecting its underlying gateway or other routes using its underlying gateway, even if it is currently used.

This function allows the route table to be refreshed independently of the underlying gateways so that inactive routes may be deleted even in situations where gateways are kept active by other routes. The use of the LIFETIME parameter is optional and defaults to being unused (i.e., LIFETIME=0).

p. 357, 365, 367 and 572. Incorrectly indicates X.25/X.75 over Frame Relay ports as 1-1-1-(XF1-XF32) for PFA 020,PFA 120, PFA 030, PFA 130 and PFA 230.

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

Section 11: TCP/IP. More explanation of split horizon needed:

Split Horizon

A limitation to the utilisation of RIP is the possibility of temporary routing loops arising due to the crash of another RIP neighbour and subsequent widespread advertising on all interfaces. Such loops can be avoided by using a technique known as split horizon.

Split horizon is configurable on either an X.25/X.75 or Frame Relay Network Interface with the SH parameter. Two modes can be set:

FULL - This mode does not re-advertise a learnt route back to the subnet or network it originated from. This is the default.

PARTIAL - This mode does not re-advertise a learnt route back to the IP subnet from which it originated from. However, this allows advertisement to other subnets on the same major network.

Split Horizon with Poison Reverse

Poison Reverse is a modified version of split horizon processing. When a new route is installed dynamically via RIP, the PFA product starts a poison timer as configured by the POISON parameter in the IPRPS command. When the new route is advertised, the PFA product will re-advertise the learnt route back to where it originated from with the METRIC set to infinity (16) for the duration of the POISON timer.

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

p. 448. The wild card character “?” can be applied to INTADDR parameter as well as LOCADDR. Wild cards must never be applied to both LOCADDR and INTADDR parameters in the same conversion record.

p. 454. Command syntax and note for ANAMT command should be:

```
ANAMT:TABLE=table;  
ANAMT:TABLE=table,INTADDR=intaddr;  
ANAMT:TABLE=table,LOCADDR=locaddr;  
ANAMT:TABLE=table,INTADDR=intaddr,LOCADDR=locaddr;
```

Note: Caution must be observed when deleting conversion records when specifying INTADDR=NONE without other parameters. Unless the user uses the last command syntax (detailed above), i.e. an explicit deletion of a single conversion record, then multiple conversion records may be deleted.

6.3 Command Survey Fault Log

p. 7. New parameter EXTPREF added to ANAMS command.

p. 14. New parameter OUTGOING added to IPGAI command.

p. 14. Parameters CONFIG and TIMEOUT added to IPGAI command. These are for IP swtiching enhancement.

p. 18. Parameters CONFIG and LIFETIME added to IPROI command. These are for IP swtiching enhancement.

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.

p. 35. New parameter DEFAULT added to NACCS command. This is for PFA 660.

p. 43. New parameter ORIG added to PSPIP command.

7. PFA Product Support

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