



# Connect:Express<sup>®</sup> Unix

Histo\_Unix Release Notes  
Version 1.4.6-1



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## Fixes and Updates in Connect:Express UNIX V140-1:

19/03/2002 : Send remote data set name in Pi99 if partner is of type other.  
tom\_apm.c is added loading of Pi99, and sndfpdu.c is added sending pi99. (under tom/strf).

**Update /strf/tom\_apm**

12/04/2002 : Reception request, mode normal added for partner of type other.  
oto1.c (tom/gtrf) changed..

**Update /gtrf/tom\_mon**

16/04/2002 : **case 2810732** : Fix PASV. ftp.tcp.c changed (tom/strf).

**Update /strf/tom\_ftp**

02/05/2002 : Add keyword NONE to disable sending pi99 to partner of type other.  
sndfpdu.c (tom/strf) changed.

**Update /strf/tom\_apm**

13/05/2002 : Screen shows pi99 received if partner of type other and protocol PeSIT.  
r\_suivi.c (tom/sterm) and p1b8pren.c (tom/itom) changed.

**Update /sterm/tom\_opr and /itom/p1b8pren**

22/05/2002 : Send pi99 to partner of type Other in FPDU Select, to enable the use of Pi99 with inquiry reception request (mode I).

tom\_apm.c and sndfpdu.c (tom/strf) changed.

**Update /strf/tom\_apm**

24/05/2002 : Keyword &PI99 replaced in transmitted dataset name by pi99 received from a partner of type other.

oto1.c (tom/gtrf) changed.

**Update /strf/tom\_apm**

27/05/2002 : Send pi99 to partner of type Other in FPDU Ackcreate, to enable the use of Pi99 with transmissison request (mode N).

tom\_apm.c and sndfpdu.c (tom/strf) changed.

**Update /strf/tom\_apm**

28/05/2002 : **case 2883798** : All hold requests no longer purged by purge request with date specified.

r\_oper.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

07/06/2002 : Add label parameter (pi37) in transfer request screen (\$sterm) and add a new keyword (/LAB) in the p1b8preq parameter list.

tom\_mon.c, oto1.c (tom/gtrf), r\_screen.c, r\_trf.c (tom/sterm), transfer.h (tom/commun), d0b8z20.h, l0b8z20.c and p1b8preq.c (tom/itom) changed.

**Update /gtrf/tom\_mon, /sterm/tom\_opr, /itom/d0b8z20.h and /itom/p1b8preq**

19/06/2002 : **case 2950095** : Hold requests now listed when list of request is requested with a date specified.

*r\_oper.c (tom/gtrf) changed.*

**Update /gtrf/tom\_mon**

28/06/2002 : Keywords &PARTNID, &FILENAM, &REQNUMB, &REQTIM, &REQDAT, &EXTLAB et &DSN replaced before sending pi99 for transmission, Keywords &PARTNID, &FILENAM, &REQNUMB, &REQTIM, &REQDAT et &EXTLAB replaced in Pi99 received before replacing keyword &PI99.

*proto.h, oto1.c, oto0.c, r\_nomphy.c (tom/gtrf) and proto.h, tom\_apm.c, r\_fonc.c (tom/strf) changed.*

**Update /gtrf/tom\_mon and /strf/tom\_apm**

04/07/2002 : Keywords &PARTNID, &FILENAM, &REQNUMB, &REQTIM, &REQDAT, &EXTLAB et &DSN replaced before sending pi37 for transmission, Keywords &PARTNID, &FILENAM, &REQNUMB, &REQTIM, &REQDAT et &EXTLAB replaced in Pi37 received before replacing keyword &EXTLAB.

*proto.h, oto1.c, oto0.c, r\_nomphy.c (tom/gtrf) changed.*

**Update /gtrf/tom\_mon**

12/07/2002 : if 'NONE' is specified in the label field, pi37 is not sent.

*sndfpdu.c (tom/strf) changed.*

**Update /strf/tom\_apm**

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## Fixes and Updates in Connect:Express UNIX V140-2:

08/2002 : **case 2601835** : Support of large files (>2 Giga Bytes).

**Update all**

20/08/2002 : **case 3088041** : Modification of the Ftp list format.

ftp.list.c (tom/strf) changed.

**Update /strf/tom\_ftp**

16/10/2002 : *stern* problem fixed for HP et DIGITAL UNIX.

r\_fonc.c (tom/commun) changed.

**Update /gtrf/tom\_mon, /strf/tom\_ftp and /stern/tom\_opr**

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## Fixes and Updates in Connect:Express UNIX V140-3:

28/10/2002 : **case 3230806** : problem on FTP port number when using two TCP/IP cards.  
[ftp.tcp.c](#) (tom/strf) changed.

**Update /strf/tom\_ftp**

12/11/2002 : New parameter \$9 provides pi99 received to beginning and end of transfer commands.

[UEXERR](#), [TRFOK](#) (tom/exit) and [r\\_fonc.c](#) (tom/gtrf) changed.

**Update tom\_mon, TRFOK and UEXERR**

14/11/2002 : **case 2725630** : the ftp list now includes a file if the partner is found in a list of partners associated with the file.

[ftp.list.c](#), [ftp.decl.c](#) and [ftp.proto.h](#) (tom/strf) changed.

**Update /strf/tom\_ftp**

16/12/2002 : **case 3360780** : Problem if no delimiter (OX0A) is found at end of file is fixed.

[r\\_file.include.c](#) (tom/strf) changed.

**Update /strf/tom\_apm**

16/01/2003 : **case 3408981** : Problem if duplicate is found when creating the monitor message queue is fixed.

[r\\_msgq.c](#) (tom/gtrf) and [r\\_msgq.c](#) (tom/sterm) changed.

**Update all**

29/01/2003 : **case 3157767** : Problem on request number 1D (modulo 255), TRC=1929 if transferring with CFT and compression requested..

[recfpdu1.c](#) (tom/strf) changed.

**Update /strf/tom\_apm**

03/02/2003 : **case 3459878** : &EXTDSN and &PI99 processing with FTP.

[oto1.c](#) (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

10/02/2003 : **case 3383400 et case 3460096** : Problem when sending ASCII file with FTP if a record is greater than 4093 characters.

[ftp.const.h](#) (tom/strf) changed.

**Update /strf/tom\_ftp**

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## Fixes and Updates in Connect:Express UNIX V141-1:

10/03/2003 : **case 3517293** : FTP LIST returns « 421 Service not available, remote server has closed connection ».

[ftp.list.c](#) (tom/strf) changed.

**Update /strf/tom\_ftp**

13/03/2003 : **SR 1089032 and SR 1089092** : TOM\_APM initialization fails «Cannot load module libx25s.a ». Export LD\_LIBRARY\_PATH=\$TOM\_DIR/strf in \$HOME/.profile file added to profile (tom/config).

Installation procedure changed.

**Update profile**

25/03/2003 : **SR 1089397** : FTP LINUX server, reception demand fails. Through a " firewall ", at the end of the transfer the request remains active 5 minutes before being in error.

[ftp.dtp.c](#) et [ftp.tcp.c](#) (tom/strf) changed.

**Update /strf/tom\_ftp**

30/03/2003 : **case 3425786** : SIZLOG supports 6 characters..

- **Update 141-1.**

10/04/2003 : **case 3731952** : Problem when re-organizing the database if it is big. New keyword RBUILD in the sysin file.

RBUILD=0, no automatic database re-organization (use new batch config/rebuild\_base ).

RBUILD=1 (default), automatic database re-organization during initialization and termination of gtrf.

- **Update 141-1.**

20/04/2003 : Problem with outbound strf when a lot of connections are performed. New keyword STRFRN in the sysin file.

STRFRN=0 (default), the number of strf is not controlled.

TRFRN=XXX, XXX (from 1 to 999) is the maximum outbound strf that can be launched.

- **Update 141-1.**

05/05/2003 : **case 3425794** : Pi99 is 44 characters long.

New parameter of P1B8PREQ /P99=... supports 254 characters.

Parameter \$9 of the user command supports 254 characters

RENC file record length changed from 700 to 1400 characters.

- **Update 141-1.**

28/05/2003 : **case 3752996** : If no delimiter (0X0A) is found at the end of a text file, transfer is interrupted.

r\_file.include.c (tom/strf) changed.

**Update /strf/tom\_apm and /strf/tom\_ftp**

27/06/2003 : The record format field of the file definition now supports T\*, B\* and \*\* and the record length fields can be 0000.

For an inbound transfer, the values are picked up from the requestor demand.

For an outbound transfer, the values are picked up from the transfer request parameters.

Default values are : TV for T\*, BU for B\* and \*\*.

If the direction is R or \* in the file definition, the record length can be zero.

For transmission anf fixed record format (TF ou BF), the record length cannot be zero.

For transmission anf variable record format (TV, BU, T\*, B\*, \*\*), the default record length is 1024.

**- Update 141-1.**

04/07/2003 : **case 3731972** : Support of automatic restart for an FTP transfer.

oto1.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

18/07/2003 : **SR 1158147** : user exits support Pi99 254 characters long.

r\_exit.c (tom/strf) changed.

**Update /strf/tom\_apm and /strf/tom\_ftp**

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## Fixes and Updates in Connect:Express UNIX V141-2:

20/08/2003 : New manual : description of Connect:Express interfaces.

**New user guide "CX\_UNIX\_API.pdf "**

26/08/2003 : **case 3934106** : Problem in the way received messages are displayed in the trace.  
recfpdu.c (tom/strf) changed.

**Update /strf/tom\_apm**

03/09/2003 : **case 3945431** : &REQNUMB keyword received in Pi99.

oto1.c, oto0.c, proto.h and r\_nomphy.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

05/09/2003 : **case 3947082** : New parameter \$10 of the user commands provides the Pi99 received.

UEXERR, TRFOK (tom/exit) and r\_fonc.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon, /exit/TRFOK and /exit/UEXERR**

06/09/2003 : http option.

New keyword in the sysin file AFMALL.

AFMALL=Y (default) includes files available for all partners (\$\$ALL\$\$) in the FTP list.

AFMALL=N : only files available to the current partenr are included in the FTP list.

New configuration file /config/parmfthpl used to define the format of the FTP list.

**- Upgrade 141-2.**

20/09/2003 : New user guide to describe the Connect:Express HTTP Option.

**New user guides "CX\_HTTP\_FR.pdf" and "CX\_HTTP\_US.pdf"**

22 /09/2003 : new Store and Forward Parameters.

- New parameters, origine and destination, supported by stern, p1b8preq (/ORG= et /DST=) and L0b8z20.

- New keywords &ORG et &DST.

- New parameters \$11 et \$12 of the user commandst.

- Upgrade 141-2.

26/09/2003 : New parameter \$13 of the user commands, providing the local name.

UEXERR, TRFOK (tom/exit) and r\_fonc.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon, /exit/TRFOK and /exit/UEXERR**

29/09/2003 : New parameter \$14 of the user commands, providing the label (Pi37).

UEXERR, TRFOK (tom/exit) and r\_fonc.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon, /exit/TRFOK and /exit/UEXERR**

30/09/2003 : New argument of p1p8preq.

p1b8preq.c (tom/itom) changed.

**Update /itom/p1b8preq**

30/09/2003 : New procedure /exit/ROUTAGE:

- If the destination is not the local node, the file is forwarded to the destination using the P1b8preq utility.

**Update /exit/ROUTAGE**

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## Fixes and Updates in Connect:Express UNIX V141-3:

17/10/2003 : CRC field is Initialized to 'N' when creating a session table.

oto0.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

05/11/2003 : New batch utility tom\_prm (/config) to extract and load Connect:Express database

New documentation CX\_UNIX\_PRM.pdf.

**New module /config/tom\_prm and user guide**

14/11/2003 : **case 3992597** : tom\_ftp initialization fails (Socket bind failed errno = 125) after stop/restart.

[ftp.tcp.c](#) (tom/strf) changed.

**Update /gtrf/tom\_ftp**

27/11/2003 : **case 4012614** : If the dsn has no "/" character after replacing &PI99 or &EXTLAB keywords, \$TOM\_DIR/in or \$TOM\_DIR/out are default path.

oto0.c and oto1.c (tom/gtrf) changed.

**Update /gtrf/tom\_ftp**

28/11/2003 : If the dsn has no "/" character after replacing &PI99 or &EXTLAB keywords, \$TOM\_DIR/in or \$TOM\_DIR/out are set in nomphy1.

r\_nomphy.c (tom/gtrf) changed.

**Update /gtrf/tom\_ftp**

12 /12/2003 : Support store and forward using Pi61 and Pi62.

- Supported by sterm, P1B8PREQ (/PI61 and /PI62) and L0B2Z20.

- New keywords &PI61 et &PI62.

-New parameters \$15 et \$16 of the user commands.

- **Upgrade to 141-3.**

16/12/2003 : New store and forward procedure ROUTPI62 (/exit) :

- If (pi62) is the not local name, forwards to Pi62 using P1B8PREQ

**Update /exit/ROUTPI62**

18/12/2003 : New utilities under /config :

start\_trace and stop\_trace : activate and desactivate a trace in the log file to show outbound strf activity : start strf, stop strf, count of strf.

List\_ctx: show the list of active contexts.

**Update /config/start\_trace, stop\_trace and list\_ctx**

24/12/2003 : **case 4038250** : FTP transfer requests blocked with status A.

oto0.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

07/01/2004 : **case 4043810** : Problem in the Pi13.

**Update /gtrf/tom\_mon**

03/02/2004 : **case 4033900** : Problem at end of transfer if the strf abends. PeSIT transfer request blocked in status C.

- **Upgrade 141-3.**

11/02/2004 : **case 4076566** : ETEBAC3 transfer with small files.

r\_etb3.c (tom/strf) changed.

**Update /strf/tom\_apm**

24/02/2004 : **SR 1243504** : FTP transfer request blocked in status C.

[ftp.const.h](#) (tom/strf) changed.

**Update /strf/tom\_ftp**

08/03/2004 : **case 4093199** : new trc 2904 to manage API time-out.

d0b8z20.h and l0b8z20.c (tom/itom).

**Update /itom/d0b8z20.h and libitom.a**

15/03/2004 : **SR 1250816** : New procedure /config/reinit\_base.sh for re-initializing RENC, RFIC and RPAR.

**Update /config/reinit\_base.sh**

16/03/2004 : **case 4033917** : Core dump of tom\_apm..

tom\_apm.c (tom/strf) changed.

**Update /strf/tom\_apm**

18/03/2004 : **case 4033917** : New procedure /config/purge\_queue.sh to purge messages queues of connect:express user after termination if any.

**Update /config/purge\_queue.sh**

02/04/2004 : **case 4082496 et 4073937** : Problem in PeSIT "multi-article" profile.

tom\_apm.c (tom/strf) changed.

**Update /strf/tom\_apm**

05/05/2004 : **case 4108529** : trc is not cleared after manual retry.

oto1.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

17/05/2004 : **case 4055861** : Add message " TRANSFERT STARTED" and file physical name in the log file for FTP transfers.

ftp.dtc.c (tom/strf) changed.

**Update /strf/tom\_ftp**

19/05/2004 : **case 4084838** : Add request number in CLOSE log message for FTP transfer and change "Communication closed (I)" to "Communication closed (O)" for outbound FTP transfers.

r\_log.c et oto0.c (tom/gtrf) and tom\_ftp.c (tom/strf) changed.

**Update /strf/tom\_apm and /strf/tom\_ftp**

02/06/2004 : **case 4103952** : TRC is wrong in monitoring screens for FTP transfers.

r\_suivi.c (tom/sterm) changed.

**Update /sterm/tom\_opr**

03/06/2004 : **case 4192744** : Current directory set to \$TOM\_DIR.

- **Upgrade 141-3.**

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## Fixes and Updates in Connect:Express UNIX V142-1:

02/07/2004 : **case 4033917** : control duplicate when creating an strf message queue..  
r\_msgq.c (tom/sterm) changed.

**Upgrade 142-1.**

05/07/2004 : **case 4176958** : modified end of transfer process after ftp error (msg104 instead of msg198).

[ftp.const.h](#), [ftp.fonctions.c](#) and tom\_ftp.c (tom/strf) changed.

**Update /strf/tom\_ftp**

21/07/2004 : **SR 1294756** : (AIX only) tom\_apm initialization failure, libx25s.a not found, is fixed.  
makefile.RS6 (tom/strf) changed.

**Update /strf/tom\_apm**

02/08/2004 : **SR 1304498** : Process defunct : signals processing modified.

tom\_mon.c (tom/gtrf), tom\_apm.c, [ftp.fonctions.c](#) and tom\_ftp.c (tom/strf) changed.

**Update /gtrf/tom\_mon, /strf/tom\_apm and /strf/tom\_ftp**

05/08/2004 : Trace context added, beginning and end of STRF, server mode (use start\_trace).  
tom\_mon.c et r\_cont.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

23/08/2004 : End transfer process enhanced.

tom\_mon.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

30/08/2004 : **case 4240678** : tom\_ftp loop fixed.

[ftp.fonctions.c](#) et tom\_ftp.c (tom/strf) changed.

**Update /strf/tom\_ftp**

09/09/2004 : **SR 1310923** : Add PRC=817 in place of PRC=317 if time out is detected after all data has been sent.

tom\_apm.c, decl.h and decl.c (tom/strf) changed.

**Update /strf/tom\_apm**

20/09/2004 : **case 4253206** : coredump p1b8pren fixed.

p1b8pren.c (tom/itom) changed.

**Update /itom/p1b8pren**

24/09/2004 : **case 4182806** : Problem if a receiving server detects a network error between transfer accepted and transfer started: the empty file is not deleted.

tom\_apm.c, decl.h and decl.c (tom/strf) changed.

**Update /strf/tom\_apm**

04/10/2004 : **case 3992596** : Restart problem when changing time from summer to winter

r\_differ.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

15/10/2004 : Create emergency key, available for all Unix platforms.  
proto.h and oto0.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

20/10/2004 : **case 4182806** : Receiving server don't delete empty file created if the transfer is rejected, TRC=2048.

tom\_apm.c (tom/strf) changed.

**Update /strf/tom\_apm.**

04/11/2004 : **SR 1326152** : New procedure /itom/convert\_fic.sh to change variable format file to fixed format, with padding. The user can choose the padding character and the truncate option.

**Update /itom/p1b8pfil\_dfl, convert\_fic, convert\_fic.sh and /itom/exemple.sh**

10/11/2004 : **case 4287858** : Add \$17 parameter of the user command to provide the request creation date (same as &REQDAT).

r\_fonc.c (tom/gtrf), TRFOK and UEXERR (tom/exit) changed.

**Update /gtrf/tom\_mon, /exit/TRFOK and /exit/UEXERR**

10/11/2004 : **case 4287858** : Add \$18 parameter of the user command to provide the request creation time (same as &REQTIM).

r\_fonc.c (tom/gtrf), TRFOK and UEXERR (tom/exit) changed.

**Update tom\_mon, TRFOK and UEXERR**

22/11/2004 : Support of ZLINUX (Red Hat et Suze).

**Upgrade 142-1.**

25/11/2004 : **case 4082496 et case 4073937** : Multi-article problem.

tom\_apm.c (tom/strf) changed.

**Update /strf/tom\_apm**

01/12/2004 : **case 4298559** : Invalid date after using the batch utility tom\_prm to load the data base.

tom\_prm.c (tom/prm) changed.

**Update /config/tom\_prm**

09/12/2004 : **case 4291648** : Some time TRC is not cleared after transfer restart.

de oto0.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

20/12/2004 : **case 4293982** : TRC management problem in case of FTP transfer error.

ftp.dtp.c (tom/strf) changed.

**Update /strf/tom\_ftp**

18/01/2005 : **case 4311457** : Add log message if context is not found.

oto1.c (tom/gtrf) changed.

**Update /gtrf/tom\_mon**

03/02/2005 : **SR 1340167** : Default values in session tables are modified, according to the normal use.

oto0.c (tom/gtrf) et de tom\_prm.c (tom/prm) changed.

**Update /gtrf/tom\_mon and /config/tom\_prm**

08/02/2005 : **case 4329129** : All Hold request are purged when requesting a purge with date time parameter.

14 CONNECT:Express for UNIX Release Notes

*r\_oper.c (tom/gtrf) changed.*

**Update /gtrf/tom\_mon**

*10/02/2005 : case 4052187 : Explicit return code is returned by utilities start\_tom, stop\_tom, rebuild\_base and p1b8preq for better integration. Samples provided.*

**Update /config/start\_tom.sh, stop\_tom.sh, rebuild\_base.sh and /itom/p1b8preq.sh**

*18/02/2005 : case 4333462 : Add \$19 parameter of the user command to provide the transfer status.*

*r\_fonc.c, oto1.c (tom/gtrf), TRFOK et UEXERR (tom/exit) changed.*

**Update /gtrf/tom\_mon, /exit/TRFOK and /exit/UEXERR**

*02/03/2005 : case 4298480 et 4341988 : For reception files, with record format=\*\*, use PeSIT pi16 to determine if the file is a text or a binary file.*

*tom\_apm.c et recfpdu2.c (tom/strf) changed.*

**Update /strf/tom\_apm**

*04/03/2005 : SR 1341224 : New module (info2) to show the value of \$TOM\_DIR used to compute the KEY ID and the KEY ID number computed by the system while creating gtrf message queue.*

*info2.c (tom/exit) added.*

**Update /config/info2**

*07/03/2005 : case 4287854 : New keyword &QQQ and new parameter \$20 to provide Julian date Qqqq to user commands and file dsn.*

**Update /gtrf/tom\_mon, /exit/TRFOK and /exit/UEXERR**

*09/03/2005 : case 4313162 : Add new parameter of p1b8ppur /QQQ=aaqqq (aa -> year. and qq -> julian date) .*

*d0b8z20.h and p1b8ppur.c (tom/itom) changed.*

**Update /itom/p1b8ppur**

*14/03/2005 : SR 1341585 : Add \$21 parameter of the user command to provide the number of records transferred (10 numeric characters).*

*r\_fonc.c (tom/gtrf), TRFOK and UEXERR (tom/exit) changed.*

**Update /gtrf/tom\_mon, /exit/TRFOK and /exit/UEXERR**

*14/03/2005 : SR 1341585 : Add \$22 parameter of the user command to provide the number of bytes transferred (10 numeric characters).*

*r\_fonc.c (tom/gtrf), TRFOK and UEXERR (tom/exit) changed.*

**Update /gtrf/tom\_mon, /exit/TRFOK and /exit/UEXERR**

*17/03/2005 : SR 1341798 : The retry number field is 2 characters position in the session table.*

**Upgrade 142-1.**

*24/03/2005 : case 4351296 : Add retry process to message queue creation function of p1b8preq (return code = 4 after retry failure).*

*l0b820.c, p1b8preq.c (tom/itom) and p1b8preq.sh (tom/config) changed.*

**Update /itom/p1b8preq and p1b8preq.sh**

*29/03/2005 : case 4353519 : Add 120 seconds timer to purge function.*

l0b8z20.c (tom/itom) changed.

**Update /itom/libitom.a**

29/03/2005 : **SR 1341912** : Automatic retry parameters in partner definition.

**Upgrade 142-1.**

31/03/2005 : **SR 1342154** : Automatic retry parameters in partner definition.

**Upgrade 142-1.**

05/04/2005 : **case 3425792 et 3952827** : 5 characters TCP/IP port number.

**Upgrade 142-1.**

08/04/2005 : New conversion procedure to migrate from Connect:Express UNIX releases 130, 140 and 141 to release 142.

**Update /config/convert\_base and convert.sh**

12/04/2005 : Interconnection with GIS 4 : scripts and programs.

**Update /exit/CXSIEnd.sh, /exit/CXSI\_UEXERR, /itom/runcli.sh, /itom/SICXReq.sh and /itom/CLAClient.jar**

10/05/2005 : **SR 1342827** : Problem when creating a queue (fork) SRC = 17.

l0b8z20.c (tom/itom) changed.

**Update p1b8preq.**

20/05/2005 : **case 4368204** : End of transfer message error after opening the FTP data port.

tom\_ftp.c (tom/strf) changed.

**Update tom\_ftp.**

27/07/2005 : **case 4418451** : No retry if a time\_out occurs after the end of transfer (PRC=817).

tom\_apm.c (tom/strf) changed.

**Update tom\_apm.**

05/08/2005 : **case 4420593** : Characters '-' et '\_' valid in the hostname field.

r\_screen.c (tom/sterm) changed.

**Update tom\_opr.**

07/09/2005 : **case 4433022** : signal 11 detected on SOLARIS and DIGITAL when a variable used in the data set name is not defined in the profile.

r\_fonc.c (tom/commun) changed.

**Update tom\_mon.**

26/09/2005 : **case 4440121** : TRC = 2013 if the file physical name is more than 34 characters long and no '/' is found after variables replacement.

**Update tom\_mon and tom\_apm.**

14/10/2005 : **case 4458981** : For DIGITAL UNIX platform, problem in retry process and retry interval management (Connection Timer and Request Timer) since these fields are on two positions (142-1).

**Update tom\_mon.**

05/12/2005 : **case 4466149** : When sending several files in one session, if one of the files is not defined in the symbolic files directory the error is processed normally, but all following transfer requests are rejected although they are valid.



*tom\_apm.c (tom/strf) changed.*  
**Update tom\_apm.**

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## Fixes and Updates in Connect:Express UNIX V142-2:

10/05/2005 : **SR 1342827** : Problem when creating a queue (fork) SRC = 17.  
I0b8z20.c (tom/itom) changed.

**Update p1b8preq.**

20/05/2005 : **case 4368204** : End of transfer message error after opening the FTP data port.  
tom\_ftp.c (tom/strf) changed.

**Update tom\_ftp.**

13/06/2005 : New functionality – Notification utility.

**Upgrade to Version 142-2.**

06/07/2005 : New tom\_opr option (tom\_opr C) : this option disables update functions of sterm.  
The user can view parameters, request a transfer and view it.

**Upgrade to Version 142-2.**

18/07/2005 : New tom\_opr option (tom\_opr V) : this option disables update and transfer request functions of sterm.

The user can only view parameters and transfers.

**Upgrade to Version 142-2.**

21/07/2005 : new stop\_tom option (stop\_tom L) : this command prepares to stop the monitor after all current transfers are executed. All inbound transfer requests are rejected and all outbound transfer requests are hold.

**Upgrade to Version 142-2.**

27/07/2005 : **case 4418451** : No retry if a time\_out occurs after the end of transfer (PRC=817).  
tom\_apm.c (tom/strf) changed.

**Update tom\_apm.**

05/08/2005 : **case 4420593** : Characters '-' et '\_' valid in the hostname field.  
r\_screen.c (tom/sterm) changed.

**Update tom\_opr.**

07/09/2005 : **case 4433022** : signal 11 detected on SOLARIS and DIGITAL when a variable used in the data set name is not defined in the profile.

r\_fonc.c (tom/commun) changed.

**Update tom\_mon.**

26/09/2005 : **case 4440121** : TRC = 2013 if the file physical name is more than 34 characters long and no '/' is found after variables replacement.

**Update tom\_mon and tom\_apm.**

14/10/2005 : **case 4458981** : For DIGITAL UNIX platform, problem in retry process and retry interval management (Connection Timer and Request Timer) since these fields are on two positions (142-1).

**Update tom\_mon.**

24/10/2005 : New operator command ch\_conf : to change configuration parameters without stopping the monitor and without updating the sysin file (to activate the trace ...).

**Upgrade to version 412-2**

08/11/2005 : New option of the `ch_conf` command : to reload dynamically `sysctd` and `sysx25` files after an update.

**Upgrade to version 412-2**

05/12/2005 : **case 4466149** : When sending several files in one session, if one of the files is not defined in the symbolic files directory the error is processed normally, but all following transfer requests are rejected although they are valid.

`tom_apm.c` (`tom/strf`) changed.

**Update `tom_apm`.**

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## Fixes and New Functionalities in Connect:Express UNIX V143-1

02/2006 : Connect :Express JAI. Client applications can access remotely to all Connect :Express fonctionnalités. (Refer to the Java doc).

**tom\_api, stop\_tom\_api, liststats and purgstats – New in 143-1.**

02/03/2006 : **SR 1353005** : for PeSIT Partner of type other, you can display 254 characters of Pi99 using Sterm or p1b8pren utility. .

Functions r\_suivi.c (tom/sterm) and p1b8pren.c (tom/itom).

**tom\_opr and p1b8pren – Updated in 143-1.**

13/03/2006 : New environment variable \$TOM\_QUEUE.

If provided, this variable is used to assign the message queue of Connect:Express.

Functions r\_msgq.c (tom/gtrf and tom/sterm) and info2.c (tom/exit).

**tom\_mon, tom\_apm, tom\_ftp et info2 - Updated in 143-1.**

16/03/2006 : Problem fixed when restarting the FTP server after an error.

Function oto0.c (tom/gtrf).

**tom\_mon - Updated in 143-1.**

27/03/2006 : **case 4531734** : Problem fixed when creating a Partner with tom\_prm utility.

Function tom\_prm.c (tom/prm).

**tom\_prm - Updated in 143-1.**

25/04/2006 : **case 4531791** : PeSIT D, an error is detected if the length of Pi99 is greater than 64, not if it is different.

Function recfpdu2.h (tom/strf).

**tom\_apm - Updated in 143-1.**

28/04/2006 : **case 4538553** : Problem fixed when creating a queue that already exists (SRC=17).

Function l0b8z20.c (tom/itom).

**p1b8preq - Updated in 143-1.**

09/05/2006 : **case 4529088 et case 4542488** : End of transfer function changed for ftp client (msg104 instead of msg198).

Function tom\_ftp.c (tom/strf).

**tom\_ftp - Updated in 143-1.**

18/05/2006 : **SR 1355456** : A new translation table is added for processing extended ASCII - TBL02.

Added TBL02.org (tom/config).

**TBL02.org and TBL02.dat. - New in 143-1.**

06/2006 : SSL functionality added in Connect :Express for PeSIT protocol (Refer to the new documentation).

**All modules - New in 143-1.**

22/08/2006 : **case 4591469** : The Connect:Express initialization and termination processes are enhanced :

- New error messages in the Log file.
- If *RBUILD=0* (no automatic reorganization of the data base during initialization) and if an error occurs while opening the data base, Connect:Express calls the rebuild process and shows the result in a trace file (*tom\_out.pid* if *STRACE=1* or *rebuild.pid* if *STRACE=0*).

**tom\_mon - Updated in 143-1.**

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## Fixes and New Functionalities in Connect:Express UNIX V144-1

03/10/2006 : **case 4538493** : Support of null records for text files.  
tom\_apm.c (tom/strf) changed.  
**tom\_apm. - Updated in 144-1.**

06/10/2006 : core dump on Sun Solaris due to alignment problem .  
tom\_api.c (tom/api) fixed.  
**tom\_api. - Updated in 144-1.**

18/10/2006 : problem when loading a configuration file with tom\_prm batch utility (NOT, NODE and FTPTYPE fields).  
tom\_prm.c (tom/prm) changed.  
**tom\_prm. - Updated in 144-1.**

26/10/2006 : **case 4621137 et case 4532455** : Enhancement in management of requests in error (status=0) due to ressource problem (PRC = 3 399):  
- A specific message is issued in the log file with a specific return code PRC.  
- 1 immediate automatic retry.  
- X retries according to the number of retries and time between two retries configure.  
oto0.c (tom/gtrf) changed.  
**tom\_mon. - Updated in 144-1.**

10/11/2006 : **case 4637924** : A loop in request processing occurs if the number of outbound sessions is zero in the partner definition.  
oto1.c (tom/gtrf) changed.  
**tom\_mon. - Updated in 144-1.**

28/11/2006 : **case 4631362** : parameter /QQQ of p1b8ppur doesn't work on SOLARIS UNIX.  
p1b8ppur.c (tom/itom) changed.  
**p1b8ppur. - Updated in 144-1.**

15/01/2007 : **case 4627843** : core dump in p1b8pren.  
p1b8pren.c (tom/itom) fixed.  
**Livraison de p1b8pren. - Updated in 144-1.**

30/01/2007 : **SR 1363378** : Problem when importing a private certificate with stern (invalid padding in the private key password).  
cert.c (tom/gtrf) and security.c (tom/strf) changed.  
**tom\_mon and de tom\_apm. - Updated in 144-1.**

01/02/2007 : Enhancement in tom\_api – external request number and remove physical name.  
api.h, proto.h, r\_fonc.c and tom\_api.c (tom/api) changed.  
**tom\_api. - Updated in 144-1.**

08/02/2007 : **SR 1363749** : Support of characters « {«, « } », « -« and « : » in the dsname field.  
r\_screen.c (tom/stern) changed.  
**tom\_opr. - Updated in 144-1.**

09/02/2007 : **SR 1364058** : Add transparent store and forward functionality – enable transfer from A node to Cnode via one or several intermediary B nodes.  
To use **\*\*ROUT\*\*** keyword in DPCSID ALIAS fields of partners A and C of node B .  
**tom\_opr, tom\_mon and UEXROUT (/exit).** – Updated in 144-1.

23/02/2007 : **SR 1364611** : Support of environment variables  $\${VAR}X$ .  
*r\_fonc.c* (tom/commun) changed.  
**tom\_apm et de tom\_mon.** – Updated in 144-1.

06/03/2007 : Network problem in the display RENC function of the JAI.  
*tools.c* and *tom\_api.c* (tom/api) changed.  
**tom\_api.** - Updated in 144-1.

16/03/2007 : **SR 1364822** : Problem fixed :  
- If **&&VAR** and **&VAR** are used both in either **Pi99** or **Pi37**, **&&Var** is replaced by **&Var** but the following **&Var** is not replaced.  
*r\_nomphy.c* (tom/gtrf) changed.  
**tom\_mon.** - Updated in 144-1.

05/04/2007 : **SR 1365076** : Problem in *convert\_fic* on AIX.  
*makefile.RS6* (tom/itom) changed.  
**convert\_fic.** - Updated in 144-1.

17/04/2007 : Add http notification, enabled by the **NOT** field in the file definition and/or the transfer request, and if **HTTPNF=1** is defined in the *sysin* configuration file.  
**tom\_mon.** – Updated in 144-1.

23/04/2007 : **case 4615350** : Add parameter \$23 of the end of transfer command *\_* provides the end of transfer date (same format as **&REQDAT**) .  
*r\_fonc.c* (tom/gtrf), **TRFOK**, **UEXERR** and **UEXROUT** (tom/exit) changed.  
**tom\_mon, TRFOK, UEXERR and UEXROUT.** – Updated in 144-1.

23/04/2007 : **case 4615350** : Add parameter \$24 of the end of transfer command *\_* provides the end of transfer time (same format as **&REQTIM**).  
*r\_fonc.c* (tom/gtrf), **TRFOK**, **UEXERR** and **UEXROUT** (tom/exit) changed.  
**tom\_mon, TRFOK, UEXERR and UEXROUT.** - Updated in 144-1.

11/05/2007 : **SR 1365448** : Fix exits user and pi37 on AIX.  
*makefile.RS6* (tom/exit).  
**user et pi37.** - Intégrer dans 144-1.

22/05/2007 : **SR 1365540** : invalid 'pi99 received' field in request monitoring screen.  
*r\_suivi.c* (tom/sterm) and *user.c* (tom/exit) changed.  
**Livraison de tom\_opr et user.** - Updated in 144-1.

12/06/2007 : **SR 1365704** : Unpredictable problem when the record type = TV and record length not provided in transfer request parameters, on AIX.  
*r\_trf.c* (tom/sterm) and *l0b8z20.c* (tom/itom) changed.  
**tom\_opr et p1b8preq.** - Updated in 144-1.

14/06/2007 : **SR 1365802** : Support of enviromnet variables in the JAI.  
api.h const.h proto.h tom\_api.c and tools.c (tom/api) changed.  
**tom\_api. - Updated in 144-1.**

27/06/2007 : **SR 1365936** : Translate environment variables in parameters \$4 (file name) and \$14 (label) of the end of transfer command.  
r\_fonc.c (tom/gtrf).  
**tom\_mon. - Updated in 144-1.**

02/07/2007 : **case 4718158** : In server mode, for reception, issue an error message in the log file if the partner password is invalid. (PRC=3 304).  
tom\_apm.c (tom/strf) changed.  
**tom\_apm. - Updated in 144-1.**

05/07/2007 : **case 4711260** : Enhance end of transfer process after a problem in (requests stay in status C).  
tom\_apm.c (tom/strf) changed.  
**tom\_apm. - Updated in 144-1.**

29/08/2007 : **SR 1365802** : Support SSL alerts « close Notify » received from remote.  
security.c and security.h (tom/strf) changed.  
**tom\_apm. - Updated in 144-1.**

19/09/2007 : **SR 1366954** : New installation kits for Connect:Express UNIX on LINUX Red Hat 5.  
– **Added in 144-1.**

25/10/2007 : **SR 1367265** : Problem when running sterm on Red Hat 5 (64 bits).  
libLINRH5 (tom/sterm) created.  
**tom\_opr. - Added in 144-1.**

30/10/2007 : **SR 1367268** : Problem with convert\_fic on SOLARIS.  
convert\_fic.c (tom/itom) changed.  
**convert\_fic. - Updated in 144-1.**

23/01/2008 : **case 4816981** : Overflow with SSL on SOLARIS.  
tom\_apm.c (tom/strf) changed.  
**tom\_apm. - Updated in 144-1.**

07/02/2008 : **SR 1368216** : Support of immediate retries – numebr of retries >0 and 00 minutes between two retries.  
r\_differ.c (tom/gtrf) changed.  
**tom\_mon. - Updated in 144-1.**

25/02/2008 : **case 4828936** : Return codes TRC and SRC are not reset when chaining transfers in one session .  
tom\_mon.c (tom/gtrf) changed.  
**tom\_mon. - Updated in 144-1.**

11/04/2008 : **case 4805214** : Issue a new message in the log file when queue creation fails.  
const.h, tom\_mon.c, r\_log.c (tom/gtrf) and const.h, tom\_apm.c (tom/strf) changed.  
**tom\_mon et de tom\_apm. - Updated in 144-1.**

02/06/2008 : Change NOT field to support 0 – 7 range aligned with the new standard of Connect\_Express.  
**tom\_mon, tom\_opr, p1b8preq and tom\_prm. - Updated in 144-1.**



18/06/2008 :Add pi61 and pi62 fields in the notification.  
**tom\_mon, tom\_notify, displaynot and recvnot. - Updated in 144-1.**

20/06/2008 : Enhance management of the Files Descriptors table to fix a problem when forking processes.

r\_fonc.c (tom/gtrf) changed.

**tom\_mon. - Updated in 144-1.**

23/06/2008 : **SR 1369855** : For hold request, no beginning of transfer notification is sent.

oto1.c (tom/gtrf) changed.

**tom\_mon. - Updated in 144-1.**

26/06/2008 : Issue a new warning message in the log file – duplicate request number (TRC=2015) – requires a purge of the RENC file.

**tom\_mon. - Updated in 144-1.**

21/07/2008 : **case 4905309** : Transfer restarted although the demand is not a restart – reject with duplicate request code, TRC=2015.

oto1.c (tom/gtrf) changed.

**tom\_mon. - Updated in 144-1.**

24/07/2008 : Date of update and user name not recorded when using the JAI – update directory.

tom\_api.c (tom/api) changed.

**tom\_api. - Updated in 144-1.**

11/08/2008 : **case 4884735** : Add environment variable to enable/disable support of empty segment by SSL.

export TOM\_SSL\_INSERT\_EMPTY\_FRAGMENTS=X to enable.

No export to disable.

security.c (tom/strf) changed.

**tom\_apm. - Updated in 144-1.**

26/08/2008 : transfer request using the JAI :

Remote Physical Name field.

File Record Length field not supported on AIX.

tom\_api.c (tom/api) changed.

**tom\_api. - Updated in 144-1.**

29/08/2008 : Enhancements of the JAI :

Hold requests (status H) listed in activity.

User Data Sent displayed if the Remote Physical Name field of the requests has been provided STERM (activity and journal).

Problem in fields Transfer Sender, Transfer Receiver, Transfer Origin and Transfer Destination (journal).

tom\_api.c (tom/api) changed.

**tom\_api. - Updated in 144-1.**

24/09/2008 : Enhancements of the JAI :

Interrupted requests (status O) listed in activity.

tom\_api.c (tom/api) changed.

**tom\_api. - Updated in 144-1.**

08/10/2008 : Enhancements in pi37 and pi99 processing.  
**tom\_mon. - Updated in 144-1.**

16/10/2008 : **SR 1371127** : Enhancements in &variables processing for pi37 and pi99 fields.  
r\_nomphy.c (tom/gtrf) changed.  
**tom\_mon. - Updated in 144-1.**

28/10/2008 : **SR 1371429** : Enhancements in &PI99 processing for DSN (fix Signal 11).  
oto0.c and oto1.c (tom/gtrf) changed.  
**tom\_mon. - Updated in 144-1.**

13/11/2008 : **case 4932410** : Enhancement null record process (text files)  
tom\_apm.c, recfpdu1.h and recfpdu2.h (tom/strf) changed.  
**tom\_apm. - Updated in 144-1.**

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## Fixes and New Functionalities in Connect:Express UNIX V145-1

04/02/2009 : **case 4978145** : restart process fails due to queue creation error.  
l0b8z20.c (tom/itom) fixed.  
**p1b8preq - Updated in 145-1.**

12/02/2009 : **SR 1372432** : New environment variable \$HTTPN\_TRC in the profile to indicate where to write the trace file tom\_httpn.trc when HTTPN function is enabled.  
tom\_httpn.c (tom/httpn) fixed.  
**tom\_httpn - Updated in 145-1.**

20/02/2009 : **SR 1372736** : Error detected when calling user exits, if \$TOM\_DIR pathname is more than 28 characters long.  
r\_exit.h (tom/strf) fixed.  
**tom\_apm - Updated in 145-1.**

23/02/2009 : **SR 1372702** : New environment variables \$GTRF\_TRC, \$STRF\_TRC and \$EXIT\_TRC added to profile : they indicate where Connect:Express must write the trace files.  
**tom\_mon, tom\_apm and tom\_ftp - Updated in 145-1.**

25/02/2009 : **SR 1372799** : End of reception notification disabled when the File Agent flag is selected.  
oto1.c (tom/gtrf) fixed.  
**tom\_mon - Updated in 145-1.**

11/03/2009 : **case 5000652** : Problem in p1b8preq if /RLG is specified (AIX 5.3 only). l0b8z20.c (tom/itom) fixed.  
**p1b8preq - Updated in 145-1.**

17/03/2009 : **case 4997720** : length of pgi50 is invalid in CREATE command when pi61 (sender) and pi62 (receiver) are set.  
sndpfu.c (tom/strf) fixed.  
**tom\_apm - Updated in 145-1.**

18/03/2009 : **SR 1373067** : problem during tom\_api termination due to compilation on SOLARIS 5.9.  
r\_fonc.c (tom/gtrf) fixed.  
**tom\_mon - Updated in 145-1.**

28/05/2009 : Problem when multiple requests in inquiry mode with the same symbolic file name are posted.  
tom\_mon.c, oto1.c and proto.h (tom/gtrf) fixed.  
**tom\_mon - Updated in 145-1.**

03/06/2009 : SSLPARM ID is not updated using cxcmd or cxjai, replace and update mode.  
tom\_api.c (tom/api) fixed.  
**tom\_api - Updated in 145-1.**

23/06/2009 : Ip header option added in SSL parameters.  
**tom\_apm, tom\_mon, tom\_opr and p1b8preq - Updated in 145-1.**

29/07/2009 : Invalid fields in the HTTP notification in server mode : RemotePhysicalName, TransferOrigin and TransferDestination.  
r\_fonc.c (tom/gtrf) fixed.  
**tom\_mon - Updated in 145-1.**

23/06/2009 : Ip header option added in SSL parameters.  
**tom\_apm, tom\_mon, tom\_opr and p1b8preq - Updated in 145-1.**

29/07/2009 : Invalid fields in the HTTP notification in server mode : RemotePhysicalName, TransferOrigin and TransferDestination, FileSize.  
r\_fonc.c (tom/gtrf) fixed.  
**tom\_mon - Updated in 145-1.**

15/09/2009 : New asset protection system.  
**New files in ../config (show\_license, show\_license.sh).**  
**New variable in profile: license=\$TOM\_DIR/config/show\_license.sh.**  
**tom\_mon, ch\_conf and ch\_conf.sh - Updated in 145-1.**

24/09/2009 : Change in notifications. FileBytes, NotificationType, TransferOrigin and TransferDestination.  
**tom\_mon and tom\_httpn - Updated in 145-1.**

12/10/2009 : reset IP address field with one blank, partners directory.  
r\_screen.c (tom/sterm) changed.  
**tom\_opr - Updated in 145-1.**

12/10/2009 : Option fields forced to O when updating other fields in SSLPARM.  
r\_sslparm.c (tom/sterm) fixed.  
**tom\_opr - Updated in 145-1.**

12/10/2009 : SSL server no longer launched, and error message added in LOG, when the SSLPARM or Certificat is invalid.  
security.c (tom/strf) and tom\_mon.c (tom/gtrf) fixed.  
**tom\_apm and tom\_mon - Updated in 145-1.**

12/10/2009 : Validity dates shifted one month in the certificate list screen.  
cert.c (tom/gtrf) fixed.  
**tom\_mon - Updated in 145-1.**

30/10/2009 : New labels not shown in SSLPARM screen (IP header)  
**fr.dat and us.dat - Updated in 145-1.**

30/10/2009 : Abort sent at end of transmission by server, PeSIT/SSL.  
security.c (tom/strf) fixed.  
**tom\_apm - Updated in 145-1.**

23/11/2009 : Hold request, restart fails with TRC=1532  
oto1.c (tom/sterm) fixed.  
**tom\_mon - Updated in 145-1.**

23/11/2009 : In the list of request screen, Hold request, the WITH field shows partner.  
r\_screen.c (tom/sterm) fixed.  
**tom\_opr - Updated in 145-1.**

26/11/2009 : PeSIT server (without SSL) doesn't detect an anomaly when receiving a SSL Hello.  
Tom\_apm.c and r\_tcp.c (tom/strf) fixed.  
**tom\_apm - Updated**

18/12/2009 : Deferred requests and automatic retry requests not scheduled.  
r\_differ.c (tom/gtrf) fixed.  
**tom\_mon updated.**

18/12/2009 : pi61 and pi62 from hold request are not sent to the requester for reception inquiry.  
Tom\_mon.c, tom\_apm.c, sndfpdu.c and tab\_recf.h (tom/strf) fixed.  
**tom\_apm updated.**

24/12/2009 : Server, transmitter : SSL session interrupted.  
tom\_apm.c, r\_tcp.c and security.c (tom/strf) fixed.  
**tom\_apm updated.**

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## Fixes and New Functionalities in Connect:Express UNIX V146-1:

28/01/2010 : **SR 15973** : problem fixed in `purge_queue.sh`. on SUN SOLARIS (tom/config).  
**purge\_queue.sh updated.**

02/02/2010 : **SR 15943** : New procedure `check_httpn.sh` added to control that the process `tom_httpn` is active and restart it if required (use crontab to activate it periodically).  
(tom/httpn).  
**survey\_httpn.sh added.**

08/02/2010 : **case 135892** : New procedure `check_apm.sh` added to control that the process `tom_apm` is active and listening to a tcp/ip port, and restart it if required (use crontab to activate it periodically). (tom/config).  
**survey\_apm.sh added..**

10/02/2010 : **case 138833** : `tom_prm` returns code 1 in any case (when no parameter file is provided). (tom/prm).  
**tom\_prm updated.**

17/02/2010 : **case 143439** : New environment variable added `$THR_PI42`, to place in the `.profile` file. This variable is used when receiving the file size from the sender : it determines the error threshold (%) Connect:Express will apply to the file size when controlling the reception (Pi42 peSIT parameter).  
Change in `decl.h`, `declc.h` and `tom_apm.c` (tom/strf).  
**tom\_apm updated.**

24/02/2010 : **case 133791** : Default values changed in the presentation and session tables (message size 4096, multi-article option = N)  
Change in `oto0.c` (tom/gtrf).  
**tom\_mon, RPRE and RTAB updated.**

10/03/2010 : **case 152743** : In server mode, version 145 added a control of the first message received. The length should be 24 characters for PeSIT. Some PeSIT softwares are sending 26 characters (for some reason). The control is made more flexible .  
Change in `r_tcp.c` (tom/strf).  
**tom\_apm updated.**

### New Functionalities:

The new functionalities are described in the release notes.

PeSIT Message  
PeSIT Store and Forward  
SSL Certificate control  
FTP identification extensions