

Table of Contents

1	General
1.1	Documentation
2	Notes on product use
2.1	Software/hardware configuration
2.1.1	Operating system
2.2	Resource requirements
2.3	Product installation/configuration
2.3.1	Installing PCMX(LINUX)
2.3.2	Uninstalling PCMX(LINUX)
2.4	Notes on product operation
2.4.1	Limit values
2.5	Obsolete and discontinued functions
2.6	Incompatibilities
2.6.1	Source programs
2.7	Restrictions
2.8	Additions to the manual
2.9	Miscellaneous information
2.9.1	Compiling and linking PCMX applications
2.9.2	Information about the installed PCMX(LINUX)
2.9.3	New functions
3	Changes to previous PCMX Version
3.1	Connection to the own Process
3.2	TNS-Tools tnsxdel and tnsxnames
3.3	Ipv6: Link-local addresses
3.4	The Package are renamed to PCMX
3.5	Prepared for Update Installation
3.6	tnsxd/cmxredd with 32/64-Bit Processes
4	Evaluation Test Eval_PCMX_on_Linux

1 General

The file contains important information which is not noted in the manuals for using PCMX V6.0 in the LINUX operating system.

The release level is that of: June 2009.

This delivery unit is a licensed product. Only the ownership of the USER CARD of this software product authorizes you to create one copy of this software product and to use the aforementioned copy on one system unit in accordance with the relevant software licensing agreement of the particular supplier.

The software licensing agreement also applies for the USER CARD. The conditions in this agreement governing the copying and forwarding of the software product to third parties etc. must be observed.

The use of names, trademarks, etc. in this Release Notice does not entitle readers to assume that these names/designations may be used without restrictions by anyone. Often the names/designations are protected by law or contract, even if this is not indicated here.

1.1 Documentation

You receive the following manuals when you order the documentation package:

Betrieb und Administration CMX V6.0, German/deutsch Benutzerhandbuch
Order No./Best.Nr.: U20871-J-Z145-2

Anwendungen programmieren CMX V6.0, German/deutsch
Programmierhandbuch
Order No./Best.Nr.: U41136-J-Z145-3

Programming Applications CMX V6.0, English/englisch Programmer
Reference Guide
Order No./Best.Nr.: U41136-J-Z145-3-76

The documentation is available in the form of online manuals at <http://manuals.ts.fujitsu.com> or can be ordered in the form of printed manuals for an additional payment at <http://manualshop.ts.fujitsu.com>.

2 Notes on product use

2.1 Software/hardware configuration

2.1.1 Operating system

The following operating system versions are required for using PCMX(LINUX-IA32) V6.0:

LINUX Distributor	Version
LINUX SUSE (IA32) *)	SLES 9

*) or compatible Linux distributions

2.2 Resource requirements

PCMX V6.0A requires the following hard disk space:

Package	/etc	/usr	/opt
PCMX (IA32)	~4 KB	~0,7 MB	~1,5 MB

Main memory requirement of the ICMX(L) library:

Text segment	Initialized data/processes	Not initialized (bss) data/processes
~400 KB	~30 KB	~4 KB

The ICMX library is a "shared object". The text segment therefore is present only once in the main memory.

2.3 Product installation/configuration

2.3.1 Installing PCMX(LINUX)

PCMX(LINUX) is shipped as an rpm package and must be installed with the rpm (Red Hat package manager) command.

The description contains the <package> for the PCMX(LINUX) package that you received (for example, PCMX.rpm). If you renamed the package, you must use the new file name.

For an installation or update, root rights are required.

New installation:

```
rpm -i <package name>
```

Update from an earlier version:

Please uninstall the old package first and then install the new package. (The parameter -U is supported for update from PCMX 6.0A40 or higher)

2.3.2 Uninstalling PCMX(LINUX)

Determine the name of the installed PCMX(LINUX) package:

```
rpm -qa | grep CMX
```

The command returns the name of the installed CMX(LINUX) package, for example CMX-6.0A70-1.

Uninstalling CMX(LINUX):

```
rpm -e <package name>
```

2.4 Notes on product operation

2.4.1 Limit values

Max. number of ICMX applications per processes	1,024
Max. number of TVs (TCEPs) per ICMX application	1,024
Max. number of RFC1006 connections per ICMX application	1,024

2.5 Obsolete and discontinued functions

2.6 Incompatibilities

2.6.1 Source programs

The CMX library is available as a shared object. This means that your programs will automatically use the new CMX library without having to be relinked after a new CMX version has been installed.

2.7 Restrictions

2.8 Additions to the manual

COMM-CD-PCMX_06.2009\Documents>manual_changes_en.txt

2.9 Miscellaneous information

2.9.1 Compiling and linking PCMX applications

The README file under /opt/lib/cmx/demo/cmxDe contains information about compiling and linking PCMX applications.

2.9.2 Information about the installed PCMX(LINUX)

- Determining the name of the installed PCMX(LINUX) package:

```
rpm -qa | grep CMX
```

- Verifying the installed PCMX(LINUX) package:

```
rpm -V <package name>
```

- Getting information about the installed PCMX(LINUX) package:

```
rpm -qi <package name>
```

2.9.3 New functions

IPv6:

The extended addressing over the IPv6 stack is supported.

Multithreaded functions:

The CMX-lib is thread save since the version 6.0. The calls to the CMX-lib can be made from different, maybe competing threads. For it is necessary to use the CMX-functions of the library libpthreadcmx.so when creating applications.

3 Changes to previous PCMX Version

3.1 Connection to the own Process

Connections can be set up to the own process.

3.2 TNS-Tools tnsxdel and tnsxnames

This two CMX tools are now deployed with by PCMX. They are documented in CMX manuals.

3.3 Ipv6: Link-local addresses

PCMX supports link-local addresses in the IPv6-stack.

3.4 The Package are renamed to PCMX

The old name was CMX (and CMX-J).

3.5 Prepared for Update Installation

Due to the renaming of the Package the Update now is only possible from PCMX 6.0A40 on. Uninstall older packages named CMX or CMX-J before installing PCMX.

3.6 tnsxd/cmxredd with 32/64-Bit Processes

If on a system 32-Bit and 64-Bit libraries are installed, the daemons must support both application types. Only on LINUX the length and alignment of the used data types differed in 64-bit and 32-bit that disturbed the communication between the PCMX application and the daemons.

4 Evaluation Test Eval_PCMX_on_Linux (/opt/bin)

The test program if PCMX is operable on this linux distribution.

Output:

Log file pcmx_prot

OK: return value = 0

notice:PCMX is operable on this linux distribution.

not_OK: return value ne 0

notice: Evaluation of PCMX on this linux distribution failed