

Technologies & Products

Haachtsesteenweg 1442 1130 Brussels Belgium

DEP Documentation

DEP Installation Guide

Version Management Report				
Version	Name(s)	Date	Comments	
01.00	F. Demaertelaere	14/08/2000	Initial version	
01.01	F. Demaertelaere	21/11/2000	Minor modifications	
02.00	F. Demaertelaere	12/01/2001	Final version	
02.01	F. Bormans/F. Demaertelaere	10/04/2002	Add hardware installation procedure	
03.00	G.Vanovertveldt	25/02/2003	DEP/PCI based only	
03.01	G.Vanovertveldt	30/04/2003	License introduction	
03.02	P.Stienon	25/04/2006	New disclaimer, delete of the DEP/NT	
			GUI	
03.03	P.Stienon	28/09/2007	New title, part DEP/PCI in DEP/PCI	
			Installation Guide, corrections for	
			DEP/XP, DEP/T6	

CONFIDENTIALITY

The information in this document is confidential and shall not be disclosed to any third party in whole or in part without the prior written consent of Banksys S.A./N.V.

COPYRIGHT

The information in this document is subject to change without notice and shall not be construed as a commitment by Banksys S.A./N.V.

The content of this document, including but not limited to trademarks, designs, logos, text, images, is the property of Banksys S.A/N.V. and is protected by the Belgian Act of 30.06.1994 related to author's right and by the other applicable Acts.

The contents of this document must not be reproduced in any form whatsoever, by or on behalf of third parties, without the prior written consent of Banksys S.A./N.V.

Except with respect to the limited license to download and print certain material from this document for non-commercial and personal use only, nothing contained in this document shall grant any license or right to use any of Banksys S.A./N.V.'s proprietary material.

LEGAL DISCLAIMER

While Banksys S.A./N.V. has made every attempt to ensure that the information contained in this document is correct, Banksys S.A./N.V. does not provide any legal or commercial warranty on the document that is described in this specification. The technology is thus provided "as is" without warranties of any kind, expressed or implied, included those of merchantability and fitness for a particular purpose. Banksys S.A./N.V. does not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, product or process disclosed.

To the fullest extent permitted under applicable law, neither Banksys S.A./N.V. nor its affiliates, directors, employees and agents shall be liable to any party for any damages that might result from the use of the technology as described in this document (including without limitation direct, indirect, incidental, special, consequential and punitive damages, lost profits).

JURISDICTION AND APPLICABLE LAW

These terms shall be governed by and construed in accordance with the laws of Belgium. You irrevocably consent to the jurisdiction of the courts located in Brussels for any action arising from or related to the use of this document.

1. TABLE OF CONTENTS

1.	TAB	LE OF CONTENTS	.4
2.	SCO	PE OF THE DOCUMENT	.6
3.	REF	ERENCES	.6
4.	DEP	HARDWARE INSTALLATION	.6
4	I.1.	INTRODUCTION	.6
4	1.2.	INSTALLATION DEP/PCI	.6
4	1.3.	OPTION: 3COM ETHERLINK CARD CONFIGURATION	.7
4	1.4.	FINISH INSTALLATION	.7
5.	DEP	HOST CONNECTION	.7
5	5.1.	INTRODUCTION	.7
5	5.2.	PDP	.7
5	5.3. '	TCP/IP	.7
6.	FIRS	T TIME SOFTWARE INSTALLATION	.8
6	51	WELCOME	8
6	5.2	USER INFORMATION	9
6	5.3.	CHOOSE DESTINATION LOCATION	.9
6	5.4.	Select Program Folder	10
6	5.5.	START COPYING FILES	1
6	5.6.	INSTALLING	12
6	5.7.	Set-up Complete	13
6	5.8.	Set-up Complete	4
6	5.9.	INSTALLATION RESULT	15
7.	POS	F-INSTALLATION PROCEDURE 1	16
7	7.1.	DEP/NT HOST INTERFACE SUPERVISION	16
	7.1.1.	Service Installation	16
	7.1.2	Protocol Selection	16
	7.1.3	Traces & Statistics	17
	7.1.4	Status Update	17
7	7.2.	DEP/NT DEP HANDLER SUPERVISION 1	17
	7.2.1.	Service Installation	17
	7.2.2.	Driver Configuration	17
	7.2.3.	View Information	18
	7.2.4.	Battery Connection and Battery Status	18
	7.2.5.	DEP/NT Alarms	18
	7.2.6.	Application Software and Keys	18
	7.2.7.	Traces & Statistics	19
	7.2.8	Status Update	19
	7.2.9	Online	19
8.	UPG	RADING THE SYSTEM	19

8.1.	RECOMMENDATIONS	19
8.2.	COMPLETE UPGRADE PROCEDURE	19
8.3.	UPGRADE OF APPLICATION SOFTWARE	20
8.4.	UPGRADE OF APPLICATION KEYS	20

2. SCOPE OF THE DOCUMENT

The DEP Installation Guide describes how the DEP Platforms (DEP/NT and DEP/XP) are installed. For the DEP/T6 Platform, please refer to the *DEP/T6 Owner Manual*. This document describes both the initial installation of the system and possible upgrades.

3. **REFERENCES**

This document contains a reference to other documents about the DEP. This paragraph gives a list of all the documents referred to.

- DEP/NT Host Interface Supervision User Manual
- DEP/NT DEP Handler Supervision User Manual
- DEP Customer's Security Officer's Guide
- DEP/T6 Owner Manual
- DEP/PCI Installation Guide

There are no references made to the following documents, but they could be useful to understand this document.

- DEP Introduction to DEP
- DEP General Architecture
- DEP Glossary

4. DEP HARDWARE INSTALLATION

4.1. INTRODUCTION

Normally, a banksys technician from the DEP TECH Group does the initial installation of the hardware. In case of technical problems or the wish to add additional DEP Crypto Modules, don't hesitate to contact *banksys*.

In some circumstances it could be useful to be able to add additional DEP Crypto Modules yourself. Therefore the complete installation procedure is explained.

4.2. INSTALLATION DEP/PCI

For information on how to install the DEP/PCI card into the DEP Platforms (DEP/NT or DEP/XP), please refer to the *DEP/PCI Installation Guide*.

4.3. OPTION: 3COM ETHERLINK CARD CONFIGURATION

When using a 3COM 3C509 Etherlink III Card to connect the DEP to the host through a TCP/IP connection, the following configuration of the card is recommended.

- I/O Base Address: 300h
- Interrupt Request Level: 10
- Boot PROM: Disabled
- Transceiver Type: On-Board TP (RJ45)
- Network Driver Optimization: Server
- Maximum Modem Speed: No modem

4.4. FINISH INSTALLATION

Close again the DEP and power on the DEP.

5. DEP-HOST CONNECTION

5.1. INTRODUCTION

The DEP can be connected to a host by using different communication means.

Refer to the *DEP/NT Host Interface User Manual* and the *DEP/NT Host Interface Supervision User Manual* for more information about the possible protocols.

5.2. PDP

The PDP protocol requires a default RS232 serial connection between the DEP and the host. The default serial communication port of the DEP is used for this purpose.

Of course, this communication type together with its properties needs to be defined in the *DEP/NT Host Interface Supervision* (refer to the *DEP/NT Host Interface Supervision User Manual*).

5.3. TCP/IP

TCP/IP can be used with a default Ethernet cable between the DEP and the host. The DEP Ethernet connection is used for this purpose.

Of course, this communication type together with its properties needs to be defined in the *DEP/NT Host Interface Supervision* (refer to the *DEP/NT Host Interface Supervision User Manual*).

6. FIRST TIME SOFTWARE INSTALLATION

This paragraph described how the procedure for the first time installation of the *DEP/NT Host Interface Supervision*, *DEP/NT DEP Handler*.

The installation of the *DEP/NT Host Interface Supervision* and the *DEP/NT DEP Handler Supervision* are integrated in one installation procedure.

Before starting the installation procedure it is strongly recommended to exit all the Windows applications.

To start the installation wizard of *DEP/NT Host Interface Supervision* and of *DEP/NT DEP Handler Supervision*, insert the first installation diskette or CD-ROM and start the *Setup.exe*.

6.1. WELCOME

A **Welcome** screen appears immediately after the execution of the *Setup.exe*. It contains some recommendations and warnings about the copyright laws and international treaties.



Click the NEXT button to continue the installation procedure or click CANCEL to abort.

6.2. USER INFORMATION

The **User Information** screen allows entering the name and the name of the company that performs the installation.

User Information					×
	Type your na company you	ame below. You mu u work for.	ust also type the r	ame of the	
	N <u>a</u> me: <u>C</u> ompany:	Telecom Interver	ntion		
		< <u>B</u> ack	<u>N</u> ext >	Cancel	

Enter the name and the company and click NEXT to continue, BACK to return to previous screen and CANCEL to abort the installation procedure.

6.3. CHOOSE DESTINATION LOCATION

The **Choose Destination Location** window allows defining the path where the *DEP/NT Host Interface Supervision*, *DEP/NT DEP Handler Supervision* and their auxiliary directories are installed. The default path is **C:\DEPNT** (it is recommended to keep the default path).

Choose Destination Location		
	Setup will install DEP-NT PCI Software in the following directory. To install to this directory, click Next. To install to a different directory, click Browse and select another directory. You can choose not to install DEP-NT PCI Software by clicking Cancel to exit Setup.	
20	Destination Directory C:\DEPNT Browse	
InstallShield	< <u>B</u> ack <u>Next</u> > Cancel	

Although it is recommended to use the default path, click the BROWSE button to select another directory for the installation of the DEP/NT software.

Click the NEXT button to continue, BACK to return to previous screen or CANCEL to abort the installation procedure.

6.4. SELECT PROGRAM FOLDER

The **Select Program Folder** window is used to define the Program Folder where the program icons will be created.



By default, the Program Folders field contains **[DEP-NT PCI]**. Although it is recommended to leave the default setting, it is possible to select another existing program folder or to enter a new one.

Click the NEXT button to continue, BACK to return to previous screen or CANCEL to abort the installation procedure.

6.5. START COPYING FILES

The **Start Copying Files** window gives an overview of the settings selected during the installation procedure.



When the information is correct, click the NEXT button to continue, go BACK to modify some settings or use CANCEL to abort the installation procedure.

6.6. INSTALLING...

After having clicked on the NEXT button of the **Start Copying Files** window, all the required installations are executed.



A progress bar and one or more status messages shall appear during the installation of the files.

6.7. SET-UP COMPLETE

When all the files and information are copied, a **Set-up Complete** window appears to confirm a successful installation.



After the installation, the computer must be restarted. Select 'Yes, I want to restart my computer now' for an immediate restart or 'No, I will restart my computer later' in the other case.

It is recommended to restart the DEP/NT computer immediately (default selection). Click the FINISH button to confirm the selection.

6.8. SET-UP COMPLETE

When the computer is not restarted immediately, a second **Set-up Complete** window appears to offer the possibility to start the *DEP/NT Host Interface Supervision*.



Click the 'Yes, Launch the program file' to start the *DEP/NT Host Interface* Supervision.

It is recommended to avoid launching the application as long as the DEP/NT computer is not restarted (default setting). Click the FINISH button to confirm the selection.

6.9. INSTALLATION RESULT

After a successful installation procedure, the following components are created on the DEP/NT:

• directories in the default path, called the %DS3_ROOT% (default C:\DEPNT)

 \rightarrow **Dep Application**: directory created for saving DEP Module application software (optional use)

→ **Dep Key Backup**: directory created for storing DEP/NT key backups (optional use)

 \rightarrow **Dep Parameters**: directory created for saving a backup of the DEP/NT parameters (optional use)

→ **Dep_Hdl**: directory containing the *DEP/NT DEP Handler Supervision* application

→ Host_Itf: directory containing the *DEP/NT* Host Interface Supervision application

→ Stat & Trace: directory created for storing the trace and statistics file (optional use)

→ Log: directory containing the internal logging of the *DEP Handler* Supervision/Service and Host Interface Supervision/Service

• shortcuts in the Program Folder and the Desktop:

→ Host Interface: shortcut to the *DEP/NT Host Interface Supervision*

→ **Dep Handler**: shortcut to the *DEP/NT DEP Handler Supervision*

7. POST-INSTALLATION PROCEDURE

After having installed *DEP/NT Host Interface Supervision*, *DEP/NT DEP Handler Supervision*, some verifications/operations need to be done before the DEP/NT can be rendered into service.

7.1. DEP/NT HOST INTERFACE SUPERVISION

Refer to the *DEP/NT Host Interface Supervision User Manual* for detailed information about every operation.

7.1.1. Service Installation

The *DEP/NT Host Interface Service* needs to be installed and made running.

When the protocol still needs to be set (see paragraph 7.1.2 on page 16), the start of the service could be postponed after the protocol selection.

7.1.2. Protocol Selection

Before any communication with the DEP/NT is possible, the communication protocol needs to be installed. Go to the following steps to set the protocol:

- Stop of the Service (in case it was running)
- Configure the Communication Protocol
- Configure the Application Protocol
- Start of the Service

When the TCP/IP protocol is used, don't forget to set the TCP/IP address and computer name.

7.1.3. Traces & Statistics

When traces and/or statistics are required at host interface level, these features need to be configured.

Be aware that the use of the traces requires a capability to protect unauthorized used of the traces.

7.1.4. Status Update

It is interesting that the information on the *DEP/NT Host Interface Supervision* window is updated automatically.

Use the Automatic Status Update feature for this purpose as described in the *DEP/NT Host Interface Supervision User Manual*.

7.2. DEP/NT DEP HANDLER SUPERVISION

Refer to the *DEP/NT DEP Handler Supervision User Manual* for detailed information about every operation.

Precondition:

The DEP/NT platform must first have a Banksys **license** before the DEP/NT DEP Handler Service can be started. If the license is not present on the platform the service fails at startup and puts an error message in the Event log.

7.2.1. Service Installation

The *DEP/NT DEP Handler Service* needs to be installed and made running.

When the driver still needs to be configured (see paragraph 7.2.2 on page 17), the start of the service could be postponed after the driver configuration.

7.2.2. Driver Configuration

Normally, the DEP/PCI driver is already installed when receiving the DEP/NT. No additional configuration is required.

7.2.3. View Information

Depending on the number of installed DEP Crypto Modules, one or more information panes could be made visible. Use the **View** feature for this purpose.

7.2.4. Battery Connection and Battery Status

During the transport of the DEP/NT, it could be possible that the backup batteries of the DEP Crypto Module(s) are disconnected in order to avoid that the batteries could become empty. It is safer that these batteries are reconnected during the installation to prevent the loss of data (Application Software and keys) after a power fail.

Empty batteries generate an alarm that makes it impossible to load the DEP Crypto Modules with the dedicated Application Software and keys. This situation is kept until the batteries are charged up to a certain level. Charging batteries is only possible when the batteries are connected! The minimal charge time could take approximately one to two hours.

Remark that it is possible that the batteries are not charged on delivery. Before setting up the complete system, keep the DEP/NT powered during the battery charge time.

7.2.5. DEP/NT Alarms

Verify the alarm status of the DEP Crypto Modules. As long as an alarm is detected, the DEP Crypto Modules cannot be loaded with dedicated Application Software or keys.

Contact banksys when one or more alarms persist.

7.2.6. Application Software and Keys

Before the DEP/NT functionality can be used, it is required that an Application Software (and its corresponding keys) is loaded in the DEP Crypto Modules. The DEP Crypto Modules have to be switched off-line for this load operation.

Refer to the *DEP/NT Customer's Security Officer's Guide* for more information about the Application Software and key loading procedure.

Remark that certain Application Software only works properly when some parameters are set (after loading).

7.2.7. Traces & Statistics

When traces and/or statistics are required at DEP handler level, these features need to be configured.

Be aware that the use of the traces requires a capability to protect unauthorized used of the traces.

7.2.8. Status Update

It is interesting that the information on the *DEP/NT DEP Handler Supervision* window is updated automatically.

Use the **Automatic Status Update** and the **Online Internal Status Update** features for this purpose as described in the *DEP/NT DEP Handler Supervision User Manual*.

7.2.9. Online

After that the DEP/NT is loaded with Application Software and keys, it can be accessed by a host when the DEP Crypto Modules are switched online.

8. UPGRADING THE SYSTEM

8.1. **RECOMMENDATIONS**

After a first time installation, the DEP/NT system could be upgraded to a superior version.

When it is decided to upgrade the DEP/NT system, it is recommended to contact *banksys* to verify the availability of the last version of the *DEP/NT Host Interface Supervision* and *DEP/NT DEP Handler Supervision* and/or Application Software.

In some circumstances certain Application Software needs a certain release of the *DEP/NT DEP Handler Supervision*. To avoid troubles, it is recommended to upgrade all the DEP/NTs with the same versions. Of course, *banksys* will deliver the necessary information to support the upgrade process.

8.2. COMPLETE UPGRADE PROCEDURE

The following procedure needs to be applied to be able to upgrade the DEP/NT properly with a new *DEP/NT Host Interface Supervision* and *DEP/NT DEP Handler Supervision* and possibly Application Software.

- switch all the DEP Crypto Modules **off-line** (see document *DEP/NT DEP Handler Supervision User Manual*)
- **stop** and **remove** the *DEP Handler Service* (see document *DEP/NT DEP Handler Supervision User Manual*)
- **stop** and **remove** the *Host Interface Service* (see document *DEP/NT Host Interface Supervision User Manual*)
- start-up the installation procedure (see paragraph 6 on page 8)
- execute the post-installation procedure (see paragraph 7 on page 16)

8.3. UPGRADE OF APPLICATION SOFTWARE

Refer to the DEP/NT Customer's Security Officer's Guide for more information.

8.4. UPGRADE OF APPLICATION KEYS

When the Application Software is upgraded it is possible that some functionality requiring additional keys/capabilities/parameters is added. Before using this new functionality be sure that the necessary keys, capabilities and parameters are loaded.

Refer to the DEP/NT Customer's Security Officer's Guide for more information.