LiNC-NET for Windows NT/2000™

Installation Guide for LiNC-NET ver. 5.14.2

33-10055-002 REV: C

PCSC 3541 Challenger Street Torrance, CA 90503 Phone / Fax: (310) 303-3600 www.1pcsc.com First Edition - Revision A: January 2003 Revision B: October 2003 Revision C: October 2004 (MK)

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0.1 Release Notes for LiNC-NET NT/2000[™] Version 5.14.2

This release includes the following enhancement and corrections.

1. New fields

Middle name field has been added to the card database and State fields has been added to the card, panel, and host database.

2. Download correction

The download error for all on-line and modem option has been corrected. The error did not allow the download to be performed.

3. Smartcard_40

Smartcard_40 and Smartcard_40/PIN_PAD have been added to the reader type list (see section **5.1.3.4** and **5.4.3.4**)

4. Report updates

The following updates have been made to the report.

A. The Building hours report now has an option to show the calculated hours in HH:MM format.

B. The Card report has new search criteria which allows the user to search for cards that have access through a selected door.

C. The Authorization Group report now shows the names of authorization groups and panels and the user can choose to also include the reader names.

D. Scheduled time period download information has been added to the Holiday report.

E. Search criteria list fields can be erased by selecting the entire text in the fields and using the delete or backspace key

- Card: authorization group & affiliation
- Journal: code
- Card status: affiliation & department
- Authorization group: time period

F. Correction has been made for the error that occurred if affiliation search criteria button was clicked to make a new selection.

5. Custom report corrections

The following saved custom report problems have been corrected.

A. Print to file option was not saved for Operator audit report.

B. Door access search criteria was not saved for Card report.

C. Custom report was not deselected when the date/time or panel was changed on the Building hours report.

D. When no record is found, the title line identifying the report was not printed.

6. Scheduled report corrections

The following scheduled report problems have been corrected.

A. Search criteria section of the report output contained only the search values without identifying what they are.

B. Search for affiliation did not work for Card, Card status, and Building hours report.

C. Holiday report search for month did not work.

D. Operator audit report search for action did not work.

E. 'Unable to read record' error left the Print report window open.

7. Time period default

Time period 2 is now initialized to 'None'

8. Grid windows invoked by backspace key

The backspace key used in card number field brought up the card grid window with a square character in the Find field. The backspace key will display the grid window if the text was changed as the result of backspace and the Find field will contain the edited text. This problem has also been corrected for other similar fields.

9. Resizing alarm window

The grids that show the active alarms will resize with the alarm window.

10. Language translation

The 'Schedule...' button on report windows can now be translated. The Input Shunt screen also can be translated.

11. Latching special option

The latching special option is enabled by selecting the option in the Miscellaneous section on the Main tab of the ConfigLN program. When this option is enabled, the latching alarm has two modes—secure and access. If the latching alarm is enabled for an input, the Input screen shows the current mode and the buttons to change it.

12. Panel add warning message

If an attempt is made to add a panel that already exists, the following message is displayed to give the user a chance to cancel the add. "Panel already exists. Are you sure you want to proceed with the add?"

13. **SMMP**

The single modem multiple panels feature is now supported in LiNC-NET.

14. Auth Timeout

The 'Auth Timeout' transaction can now be defined as a transaction alarm.

15. **LAN panel down problem** LiNC-NET was not detecting panels on LAN being disconnected.

0.2 Table of Contents

INSTALLATION GUIDE FOR LINC-NET VER. 5.14.2	I
0.1 Release Notes for LiNC-NET NT/2000™ Version 5.14.2	
0.2 Table of Contents	vi
	•••••••••••••••••••••••••••••••••••••••
1.0 INTRODUCTION	1
1.1 Installation and Setup	2
2.0 BEFORE YOU BEGIN - INSTALLATION REQUIREMENTS	3
2.1 Software	3
2.2 Hardware	3
3.0 THE INITIAL INSTALLATION	4
3.1 The Initial Installation	4
3.2 Installing BDE5	5
3.3 Installing LN05.14.xx	10
4.0 COPY LINCNETW INLINTO THE LINV05.14 XX PROGRAM FO	I DFR 16
4.1 Enhanced Features Activated through the LinchetW ini	16
4.2 Copy LinchetW ini into the LNv5.14 xx Program Folder	
5.0 USING CONFIGLN TO INSTALL A DIRECTORY	
5.1 Installing LiNC-NET for a Standalone System	20
5.1.1 Creating the LiNC-NET Database Folder	21
5.1.2 Configuring the LiNC-NET Database Engine (BDE)	23 24
5.1.4 Create Data Base: Default Values	
5.2 Installing LiNC-NET for Multi-User Host Configuration	
5.2.1 Creating the LINC-NET Database Folder	
5.2.2 Configuring the Borland Database Engine (BDE)	
5.2.3 Creating the LINC-NET Database	
5.3 Installing LiNC-NET for a Multi-User Workstation	
5.3.2 Configuring the Borland Database Engine (BDE)	
5.4 Installing LiNC-NET for a Multi-User Concentrator Configuration	
5.4.1. Connecting to the Mapped Host Drive in a Multi-user System	
5.4.2 Configuring the Borland Database Engine (BDE) 5.4.3 Creating a LiNC-NET Concentrator Database	60 61
	70
6.1 To set up Regional Anti-Passback	
6.2 To Remove a Anti-Passback Regional Group	

1.0 Introduction

Welcome to newly redesigned LiNC-NET for Windows-NT/2000, the enterprise programming software from PCSC. This user-friendly, PC-based access control manager is fairly simple to operate and provides Help screens along the way to make operation even easier. We've recently redesigned the LiNC-NET manuals to reflect the new graphical user interface and for greater ease in installing the system in its Standalone, Host, Workstation or Concentrator modes.

LiNC-NET for Windows-NT/2000 operates under the Microsoft WINDOWS-NT/2000 operating system. The host PC should be dedicated to the access control system to ensure security integrity and management efficiency. Other WINDOWS-NT/2000 applications should not be running concurrently with LiNC-NET for Windows-NT/2000.

This manual was designed to provide the information necessary to install LiNC-NET for Windows-NT/2000. To obtain a complete understanding of LiNC-NET, this manual should be used in conjunction with the LiNC-NET for Windows- NT/2000 Administrator Manual and the LiNC-NET for Windows- NT/2000 User Manual. The Help menus provided on-screen will usually be sufficient to enter the proper data. This manual augments those screens and will detail certain fields, definitions, and procedures where needed.

Panel Installation Manuals

P/N 33-10019-001
P/N 33-10036-001
P/N 33-10037-001
P/N 33-10035-001

Modem	P/N 39-10052-001
Stallion	P/N 39-10060-001
Lantronix	P/N 39-10056-001

NOTE: For clarity in describing the use of LiNC-NET, the MicroLPM, IQ, SIM and Ultimate PCBs will be referred to as the PANEL.

1.1 Installation and Setup

Along with the Help screens, this guide describes how to setup your system quickly and easily. After the initial system foundation has been setup, refer to the **LiNC-NET for Windows-NT/2000 User Guide** (P/N 37-10055-001) for the day-to-day operation and maintenance of your system. The **User Guide** provides information on entering data regarding card assignment, time periods, downloading records to the Panel(s), and door operations.

NOTE: Most of the screens shown in the **LiNC-NET 5.14 Install Manual** make reference to **LiNC-NET 5.14.1**. Except for screens where the software now functions and appears differently in **LiNC-NET 5.14.2**, please assume that the functionality shown in these older screens is still correct for this version

2.0 Before You Begin - Installation Requirements

2.1 Software

To install LiNC-NET for Windows-NT/2000, the following requirements must be met:

- Windows NT Workstation Version 4.0 SP 4[™] (or higher) Windows 2000[™] (SP3 or higher) must be installed on the host computer.
- User must have knowledge of mouse and keyboard use in the WINDOWS-NT/2000 environment.

2.2 Hardware

Compare your computer hardware features with the chart listing the requirements for proper operation of LiNC-NET. If you have any questions regarding the computer you will be using for this application, call PCSC Application Engineering at (310) 303-3600 ext. 1694.

Hardware Item	Min. Requirement
CPU	IBM PC or equivalent: Pentium 4 (minimum for
	Host, Concentrator and Work Station – P4 3.0
	GHz), Windows-NT version 4.0 SP6a, Windows
	2000 SP3, or Windows XP; Award BIOS, Intel
	82430 VX PCI Chipset.
RAM	1.0 GB for Host Concentrator and Workstation
Hard Drive	40.0 GB IDE
Diskette Drive	3.5 in., 1.44 MB
CDRW or DVD-RW	12X CDRW with Nero or Roxio Software
Monitor	SVGA, 1024 x 768
Keyboard	PS-2
Mouse	PS-2 Mouse
Parallel Port	LPT1 (Address 0378h IRQ7) preferred but LPT2
	or LPT3 are acceptable
Serial Port	2 RS-232, 1 RS485 (COM 1 then COM 4 optically
	isolated preferred).
Network Interface Card	10 MBs Ethernet LAN card
U.P.S. (Uninterruptible Power Supply)	420 VA for PC & monitor

3.0 The Initial Installation

3.1 The Initial Installation

To Begin

1. Close any Windows[™] programs that you are currently running before beginning the installation.

- 2. Insert the LiNC-NET v. 05.14 CD into the CD-ROM drive.
- 3. Click on the **My Computer** icon on your desktop.
- 4. Your CD-ROM drive should display LN514xx. Double-click on LN514xx.
- 5. Several folders will appear in the LN514xx window:

💈 My Computer	_ 🗆 ×
_ <u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	A
Name Type	Total Size
Hard Disk Drives	
🥪 HPNOTEBOOK (C:) 🛛 Local Disk	18.6 GB
Devices with Removable Storage	
3½ Floppy (A:) 3½-Inch Floppy Disk	680 MB
Image: A state of the state	Þ

From this location you will install the **BDE5** and **LN05.14.xx** programs which form the two halves of the **LiNC-NET 05.14.xx** program. We will start with the **BDE5** program.

The Installation of LiNC-NET is in two parts because it is comprised of:

-05.14.xx PCSC LiNC-NET Application Software

-Borland Database Engine Software

BDE5 Borland Database Engine Version 5 software permits the operation of a database for use by LiNC-NET (the installation will also read, write and update an existing Borland Database by the LiNC-NET Application program).

3.2 Installing BDE5

1. Double-click on the **BDE5** folder.

😌 LN51401-0113 (D:)		_ 🗆 🗵
<u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools <u>H</u> elp	1
Name	Size Type	Di
Files Currently on the CD		
□ 05 14 01	File Folder	1/
Acrobat	File Folder	1/
(BDE5)	File Folder	1/
igdownloader	File Folder	1/
🗀 License	File Folder	1/
🛅 LincNetWini	File Folder	1/
🚞 Manuals	File Folder	1/
T		F

2. In the BDE5 window, double-click on the 144mb folder.



3. In the 144mb folder, click on the Disk 1 folder

a 144	мв					_ 🗆 🗵
<u> </u>	<u>E</u> dit	⊻iew	F <u>a</u> vorites	<u>T</u> ools	<u>H</u> elp	1
Name					Size	Туре
Files	Curre	ntly on	the CD			
DISK DISK DISK DISK	<1 <2 <3					File Folder File Folder File Folder
						Þ

4. In the **Disk 1** window, double-click on the **setup.exe** application.

🚞 DISI	(1					_ 🗆 🗵
<u> </u>	<u>E</u> dit	⊻iew	F <u>a</u> vorites	<u>T</u> ools	<u>H</u> elp	1
Name					Size	Туре
Files	Currer	ntly on	the CD			
INS LISD SET SET SET SET SET SET SET SET	T32I EL TUP TUP.DI TUP.DI TUP.DI TUP JP JP JP	L			288 KB 8 KB 215 KB 781 KB 6 KB 1 KB 45 KB 1 KB 80 KB 1 KB	EX_ File Application LIB File 1 File Application ID File Application Configuratio Internet Cor PKG File
•						Þ

5. This will bring you to the Install Shield Wizard©, which will lead you through the rest of the BDE5 installation. The initial page will be the Welcome page, which will state that you will be installing BDE5 on your hard drive. Click the Next> button.

Welcome	×
InstallShield	Welcome to the Setup program. This program will install on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program. Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program. WARNING: This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
	< <u>B</u> ack <u>Next</u> Cancel

6. You will then be brought to the **User Information** page. Type in your *Name* and *Company* in the appropriate spaces. Click the **Next>** button.

User Information					×
	Type your n company yo	ame below. You mu ou work for.	ust also type the r	name of the	
	Name: Company:	John Dole			
InstallShield		< Back	Next >	Cancel	

 You will be brought to the Choose Destination Location page. A default directory (C:\Program Files\BDE5) will have already been established for you. Click the Next> button.

Choose Destination Local	ion	×
	Setup will install in the following directory.	
	To install to a different directory, click Browse and select anothe directory.	il
	You can choose not to install by clicking Cancel to exit Setup.	
	Destination Directory C:\Program Files\BDE5	
Installähield	< <u>B</u> ack <u>Next></u> Cancel	

8. You will be brought to the **Select Program Folder** page. A default folder (BDE5) will have already been established for you. Click the **Next>** button.

Select Program Folder		×
Select Program Folder	Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing Folders list. Click Next to continue. Program Folders: BDES Existing Folders: Administrative Tools Adobe AlarrWiew 5.4.3 DivX	_
	GAIN Games Hewlett-Packard	1
InstallShield	< <u>B</u> ack <u>N</u> ext > Cancel	-

9. You will be brought to the **Start Copying Files** page, which will specify the **Current Settings** you established in the previous pages. Click the **Next>** button.

Start Copying Files	×
	Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
	Current Settings:
	Setup Type:
	Target Folder C:\Program Files\BDE5
	User Information Name: John Dole Company: WORDSTORM
InstallShield	
119/01/01/01	< Back Next > Cancel

10. The **BDE** files will now decompress onto your hard drive. When the decompression is finished, you will be brought to the **Setup Complete** page. Click the **Finish** button.



11. You will be brought back to your desktop. Return to the LN5.14.xx CD ROM window. You are now ready to install the LiNC-NET 5.14.xx program.

3.3 Installing LN05.14.xx

- **NOTE** Installing the LN5.14.xx program files is very similar to installing the BDE5 program files.
- 1. In the LN5.14.xx CD ROM window, double-click on the 5_14_xx folder.

😳 LN51401-0113 (D:)		_ 🗆 ×
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools <u>H</u> elp	1
Name	Size Type	Date Mc
Files Currently on the CD		
05_14_01	File Folder	1/13/20
Acrobat	File Folder	1/13/20
🛅 BDE5	File Folder	1/13/20
🗀 Iqdownloader	File Folder	1/13/20
🚞 License	File Folder	1/13/20
🚞 LincNetWini	File Folder	1/13/20
🛅 Manuals	File Folder	1/13/20
•		Þ

2. In the **5_14_xx** window, double-click on the **DISK1** folder.

🚞 05_	14_01						_ 🗆 🗙
File	Edit	View	Favorites	Tools	Help		1
Name					Size	Туре	
Files	Currer	ntly on	the CD				
Disk						File Folder	
•							×

3. In the **DISK1** window, double-click on the **setup.exe** application.

🗁 DISK1				
<u> </u>	F <u>a</u> vorites	<u>T</u> ools	Help	- 🥂
Name 🔺			Size	Туре
🔡 Data			30,299 KB	Cabinet Fi
👜 instmsia			1,479 KB	Application
🚰 instmsiw			1,491 KB	Application
UNC-NET version 5	5.14.1		355 KB	Windows I
setup			100 KB	Application
🎒 setup			62 KB	Configurat
•				

The following pop-up window will appear as the Installer loads on your system.

InstallShield Wizard				
18	LiNC-NET version 5.14.1 Setup is preparing the InstallShield Wizard which will guide you through the program setup process. Please wait.			
	Cancel			

5. This will bring you to the Install Shield Wizard©, which will lead you through the rest of the LiNC-NET 5.14 installation. The initial page will be the Welcome page, which will state that you will be installing LiNC-NET version 5.14 on your hard drive. Click the Next> button.



6. You will brought to a User License Agreement. Read the Agreement and then click the radio button for "I accept the terms of the license agreement." Click the Next> button.

🙀 LINC-NET version 5.14.1 - InstallShield Wizard	X
License Agreement Please read the following license agreement carefully.	B
FIRMWARE / SOFTWARE LICENSE A GREEMENT	-
REQUIRES THE EXECUTION AND RETURN OF THE REGISTRATION FORM ENCLOSED WITH YOUR PURCHASED SOFTWARE TO PCSC.	
IMPORTANT NOTICE: This PCSC End-User License Agreement is a legal agreement between you (either an individual or entity) and PCSC for the use of LiNC-NET and Suite software, associated media, printed material and online or electronic documentation. By installing LiNC-NET and Suite software, you agree with the terms and condition of this agreement. DO NOT INSTALL LiNC-NET if you do NOT AGREE. Please return LiNC-NET and any applicable Suite software to the place of	•
• I accept the terms in the license agreement • I do not accept the terms in the license agreement	
InstallShield	
< Back Next > Cancel	

7. You will be brought to the **Customer Information** page. Type in your *Name* and *Company* in the appropriate spaces. Click the **Next>** button.

🔂 LiNC-NET version 5.14.1 - InstallShie	eld Wizard		×
Customer Information Please enter your information.			
User Name: John Dole			
Organization:			
WORDSTORM			
Instalishield		·	
	< <u>B</u> ack	<u>N</u> ext >	Cancel

 You will be brought to the Destination Folder page. A default directory (C:\ProgramFiles\PCSC\LiNC-NET version 5.14.xx) will have already been established for you. Click the Next> button.



9. You will be brought to the **Ready to Install the Program** page, which will review the Destination Folder and your User Information that you entered. Click the **Install** button.

🔂 LINC-NET version 5.14.1 - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:
Setup Type:
Destination Folder: C:\Program Files\PCSC\LiNC-NET version 5.14.1\
User Information: Name: John Dole Company: WORDSTORM
Install5hield

10. The LiNC-NET 5.14 files will now decompress onto your hard drive. An Installing LiNC-NET version 05.14.xx window will appear briefly, showing the LiNC-NET icons that are being installed.

🛃 LINC-NET	version 5.14.1 - InstallShield Wizard
Installing The prog	LINC-NET version 5.14.1 ram features you selected are being installed.
1 6	Please wait while the InstallShield Wizard installs LiNC-NET version $5.14.1$. This may take several minutes.
	Status:
T. J. Bellinda	
InstallShield –	< Back Mext > Cancel

11. When the decompression is finished, you will be brought to the **InstallShield Wizard Completed** page.

🙀 LiNC-NET version 5.14.1 - InstallShield Wizard				
	InstallShield Wizard Completed			
	The InstallShield Wizard has successfully installed LiNC-NET version 5.14.1. Click Finish to exit the wizard.			
	Show the readme file			
	< Back Einish Cancel			

11. Click on the **Finish** button. You will be brought back to your Windows[™] desktop.

One can also access the different LiNC-NET programs through the **Start** menu, in **Programs** under **LNv5_14_xx** folder.

At this point, you are ready to start Section 4.0.

4.0 Copy LincnetW.ini into the LNv05.14.xx Program Folder

4.1 Enhanced Features Activated through the LincnetW.ini

The **Miscellaneous** section of ConFigLN allows an administrator to activate enhanced features that extend beyond the initial default set-up. By copying your unique *LincnetW.ini* into the LNv05.14.xx program folder, you overwrite the default *LincnetW.ini* files.

Certain features such as "MicroLPM PLUS 4 in use," "CLIENTS (not allowed on Network)," and MicroELV in use" are determined by your LiNC-NET configuration or the type of panels used in your LiNC-NET setup. Other features, such as ORION and LiNC-ID are extra features that are requested at the time of your LiNC-NET purchase.

4.2 Copy LincnetW.ini into the LNv5.14.xx Program Folder



1. In the LN5.14.xx CD ROM Window, double-click on the LincNetW folder.

2. In the LincNetW.ini window, copy the LincNetW.ini file and paste it into the LN5.14.xx program folder, C:\Program Files\PCSC\LiNC-NET version 5.14.xx (default path).

🔄 Lincnet W.ini				_ 🗆 🗵
Eile Edit View Favorites	<u>T</u> ools <u>H</u> elp			
📙 🔃 Back 🔹 🔿 👻 🔂 🥘 Sea	arch 🖓 Folders	History	$ $ \mathbb{C} \times	(മ ു »
Address 🗀 LiNCNETW.ini				▼ 🖗 Go
LiNCNETW.ini	LincNetW.ini			
LincNetW.ini Configuration Settings	-			
Modified: 4/1/2002 4:29 PM				
Size: 2.27 KB				
Attributes: Read-only				
Type: Configuration Settings Size: 2.2	27 KB	2.27 KB	J My Co	mputer //.

3. Confirm that you are replacing the file by answering yes.



4. NOTE: Go to Start\Programs\LNv5_14_xx\ConfigLN.

- a. Select the "**Set defaults**". This will give you the proper **LincnetW.ini** file that you purchased. This also sets a default path.
- b. Save by clicking on the "Write" button. Selecting the Write button will add a duplicate file called LincnetW.ini in your WINNT folder.

ConFigLN		
Version: 05.14.01		
<u>R</u> ead	Set default Cha	nge font
Write		
Main SIO Journal Language Norwegian	Javelin Comments	
_ Task communication		
🔽 NICcard on board 👘 Alternate messa	aging mode Local base port O	- 0=2700 [2700-2739]
Stand alone Register OCX		
C LINC-NET on network (disables CLIENTs		
C Concentrators on network		
Database		
Use shared drive		
Find folder C:\Program Files\PCSC\LiNC	-NET version 5.14.1\files	BDE config Create
Miscellaneous		
Previous version not LINC-NET for Windows	MicroLPM ELV in use	ELV: Max one button
MICTOLPM PLUS4 In USe CLIENTS in use (not allowed on Network)	IV Photo imaging IV LiNC-IDinstall	1 URIUN
Cherator Audit	Alarm routing	Building hours report

5.0 Using ConfigLN to Install a Directory

ConfigLN- (Configure LiNC-NET) is a feature that is used to set options such as the location of the LiNC-NET database (on a local hard drive or mapped to a shared network drive) and to install the default features of the LiNC-NET system.

Choose one of the following installation procedures:

- 5.1 Installing LiNC-NET for a Standalone Configuration
- 5.2 Installing LINC-NET for a Multi-User Host Configuration
- 5.3 Installing LiNC-NET for a Multi-User Workstation Configuration
- 5.4 Installing LiNC-NET for a Multi-User Concentrator Configuration

5.1 Installing LiNC-NET for a Standalone System



NOTE If the computer isn't equipped with a network card or you will not use a LAN connection in your LiNC-NET operations, do NOT check **NICcard on Board**. A computer without a Network Card will connect to a panel only with a direct cable (RS232 / RS485) or with a remote connection (modem).

1. Go to Start\Programs\LNv5_14_xx and click on ConFigLN.

Task communication				
☑ NICcard on board	Alternate messaging mode	Local base port	0 0=2700 [2700-2739]	
 Stand alone 	Register OCX			
C LINC-NET on network (disables CLIENTs)				
C Concentrators on netwo	rk			

The default value in the **Task Communication** shows a stand-alone computer equipped with a network card. This means that the computer will be able to connect to the panel through the network (LAN, WAN), direct cable (RS232 / RS485), remote access (modem).



Network Card- A Network Interface Card (NIC) is an Ethernet communication hardware device inserted in a computer allowing it to communicate with a local area network (LAN). An Ethernet is a network architecture that accommodates communications at 10 megabytes/100 megabytes per second between PC's over a BUS topology.

2. If you are using a network card with your system, click on **NICcard on Board** in the **Task Communication** section.

During the installation of LiNC-NET on your computer, Dssock32.ocx is registered to enable the communication of LiNC-NET network applications. In the event of changes to your system or your computer, you are given the option to Register (i.e. re-register) Dssock32.ocx through ConFigLN.

R	egister OCX	
File	C:\WINDOWS\Sys	tem32\Dssock32.ocx
	<u>R</u> egister	<u>U</u> nregister
	<u><u></u> <u></u></u>	ose

3. As soon as the desired configuration is set in the **Task Communication** section, save it by clicking once on the **Write** button located in the top left side of the screen.

	Version: 05.14.01			= 1
	Read	Set default	Change font	
\langle	Write			

5.1.1 Creating the LiNC-NET Database Folder

The default setting for the database folder is set to point to the C:\Program Files\PCSC\LiNC-NET version 5.14.xx Files folder (see screen below).

- 1. Right-click the Start button from your Windows desktop.
- 2. Open Explorer.
- 3. Using Explorer, find C:\Program Files\PCSC\LiNC-NET version 5.14.xx.
- 4. In the menu bar of the Explorer window, select File.
- 5. In the **File** menu, select **New > Folder**.
- 6. A new folder should appear within the LINC-NET version 5.14.xx directory. Rename the folder to Files.
- 7. Close Windows Explorer.
- 8. Go to Start\Programs\LNv5_14_xx and click on ConFigLN.

Database			
🔲 Use shared dr	ive		
Find folder	C:\Program Files\PCSC\LiNC-NET version 5.14.1\files	BDE config	Create

- 9. In the **Database** section, click on the **Find folder**... button. This will open the **Browse for Folder** window (below).
- 10. In the **Browse for Folder** window, select the appropriate drive and/or folder.

Browse for Folder
Get database directory
🖃 🞯 Desktop 📃
🕀 🔁 My Documents
📮 🖓 My Computer
🗄 🚽 31⁄2 Floppy (A:)
ADOBEAPP
🗄 🛅 DMI
🗄 🛅 Documents and Settings
📃 🛛 🕀 🛅 HP
🗄 💼 1386
🗈 🛅 Install Quicken New User Edition 200 🔤
OK Cancel

11. Click on OK to return to the ConFigLN menu. The Database section will now reflect C:\ProgramFiles\PCSC\LiNC-NET version 5.14.xx\Files.

Database Use shared dri	ve		
Find folder	C:\Program Files\PCSC\LiNC-NET version 5.14.1\files	BDE config	Create

12. Click on the **Write** button in the top left side of the screen to save the new setting.



5.1.2 Configuring the Borland Database Engine (BDE)

This configuration is used to set the Borland Paradox database, the DBMS (Database Management System) needed to run LiNC-NET for Windows.

- 1. Click on the **BDE config...** button. The screen shown below will appear.
- 2. The NET DIR window displays the location that ConFigLN thinks the database currently resides. The ...suggested button shows where the



current location of the database if it is different from the NET DIR.

🛃 BDE config	<u>_ D ×</u>	
NET DIR	C:1	<u>R</u> ead
suggested	C:\Program Files\PCSC\Li	<u>W</u> rite
BLOCK SIZE	4096 🗾	
LOCAL SHARE	TRUE	<u>I</u> <u>C</u> lose

- 3. The **NET DIR** window must show the same drive letter set in the database window. Click on the ...**suggested** button to inform ConFigLN of the new location.
- 4. The **BLOCK SIZE** value is **2048** (default value).
 - 5. The **LOCAL SHARE** value must be set to **TRUE** regardless of whether or NOT a shared drive is employed.
- 6. As soon as all the parameters have been set, click on the **Write** button to save these changes in the **BDEAdmin** file.
- 7. Click on the **Close** button to complete this step.
- 8. Click the Write button in ConFigLN to save changes.

9. To verify that ConFigLN has found the location, open BDE configuration again. You will see the **...suggested** is no longer there.

BDE configuration					
NET DIR	C:\Program Files\PCSC\Li	(<u>R</u> ead			
		<u>W</u> rite			
BLOCK SIZE	4096 🗾				
LOCAL SHARE	TRUE 💽	<u>I</u> Close			

5.1.3 Creating the LiNC-NET Database

Creating the database is a fairly simple process. There are four steps: establishing the Default Values you wish to use in your LiNC-NET system; determining the panels you will be using with your system; determining which file-types will be monitored in your system; and then compiling the database to your specification.

In the ConFigLN Database section:

1. Click on the **Create**... button in **ConFigLN**. The **Create Database** screen will appear. Notice that you are currently displaying the **Main** page.

Database	ive		
Find folder	C:\Program Files\PCSC\LiNC-NET version 5.14.1\files	BDE config	Create

	Create D	ata Base					
	LnwFiles	= C:\Program	Files\PCSC	Linc-N	ET versi	on 5.14.1\files	E <u>x</u> it
1	Main	Default Malue	a Danala		Deere	1	
~			s Paneis	Files	Reorg		
	\smile						
			Start				
			<u></u>				

(

5.1.4 Create Data Base: Default Values

1. Click on the **Default Values** tab to select the default values for:

Card Technology Door Access Time Card Table Format Daylight Savings Dates Entry/Exit Enforcement Options

NOTE: If settings are correct, go to the Panels tab for next step.

Use the explanations provided in the following section to help you determine your **Default Values** selections

Create Data Base	
LnwFiles= C:\Program Files\PCSC\LiNC-NET version 5.14.1\files	Exit
	<u></u>
<u>Main</u> Default <u>Values</u> <u>Panels</u> <u>Files</u> <u>Reorg</u>	
	- DAVA ICUT CA) (NICC
Format PCSC 26,37,40	Start 3/24/1980
DOOR LOCK ACCESS TIME	
Standard 5 Long 10	Stop 10/29/1980
Stanuaru 15 Eolig 10	
CARD TABLE FORMAT	ENTRY/EXIT ENFORCEMENT
Primary expiration (park/global) Global 🔹	Parking Off 💌
DIN or Darking reader expiration date	
	Department Off <u> </u>
▶ Names for cardnoiders exist	Building Off
12-digit card numbers	

Default Values Page

5.1.4.1 Create Data Base: Default Values: Card Technology

In this section, you must select the card reader technology that you will implement into your access control system. Select the appropriate type of card reader in the **Format window**. The available card technology formats are as follows:

ProTech	BR-350, BR-351, BR-370, BR-371
MagStripe	BR-450, BR-451, BR-452, BR-470, BR-471
Watermark	Any Watermark card with the 12-digit format
PCSC Wiegand	34-bit PCSC Wiegand format, All Sensor Proximity Readers
Indala	Indala Proximity format
12-Digit	No site code; Magnetic Stripe, barcode
Sensor 26	Standard Sensor 26-bit format. All Hughes ID Proximity Readers, BR-700, and many standard OLM readers.
Sensor 34	Standard Sensor 34-bit format
Special	Special format
PCSC 37	Special 37 bit HID Proximity format
Corp_1000	Special 35 bit HID Proximity format
Motorola 32	Special 32 bit Motorola Proximity format
Smartcard_40	HID 40-bit Smartcard format

A letter or additional reference description that describes the reader type can follow the card technology:

- **PIN-Pad** PIN Pad with the reader.
- (I) Insert Reader

5.1.4.2 Create Data Base: Default Values: Door Lock Access Time

The **Door Access Time** is the length of time that the door lock is to be energized. The actual length of time is 1/2 second less than the number of seconds specified. For example, access time value of 1 denotes 1/2 second of access and time value of 5 denotes 4 1/2 seconds. Value of 1 is generally used for turnstiles.

You must select time values for both the Standard (Access) and Long (Access).

Standard (Access) is the normal door lock energize time. Select an access time from 1-998 seconds (2-998 seconds for elevator readers).

Long (Access) is the door-lock energize time for cardholders that require a longer access time than the standard access time (i.e. an individual with a disability). Select an access time from 2-999 seconds (3-999 seconds for elevator readers).

5.1.4.3 Create Data Base: Default Values: Card Table Format

Primary Expiration

Global - When selected, the Primary expiration date is used for all cards at all readers wired to the panel. It is irrelevant whether the readers are parking, building or department readers, as the secondary expiration date is not used.

If you select **Global**, the system uses the Primary expiration date for all types of readers. In selecting **Global**, the PIN feature is automatically selected (and visa versa).

If you select **Park-Only**, each cardholder has 2 card expiration dates. One date controls the access privilege for "parking" type readers and the other for all other types of readers. This unique function allows the system administrator to automatically deny access to cardholders at parking readers, yet allow them to pass through facility related readers.

PIN or Parking reader expiration date (Parking Readers)

Park-Only - When selected, the secondary expiration date is used for all cards, but only at parking readers wired to the panel. The primary expiration date is then only used at department and building type readers.

Names for Cardholders Exist

PCSC panel products have the ability to store the cardholder names within the panel itself. Selecting this option will decrease the number of cardholders in a standard MicroLPM panel from 1016 to 600 cardholders (IQ and SIM board capacity are unaffected by downloading names). If you require names and more cardholders than 600, you will need to purchase a memory expansion kit for the MicroLPM panel.

12-Digit Card Number

Various card formats are available within the system. When using the **MagStripe** or **Watermark** format where a site code is not available, this option must be selected. For example, the MicroLPM (and I.Q. and SIM) series supports 5 - 12 digit ABA Track 2 format data.

5.1.4.4 Create Data Base: Default Values: Daylight Savings

The daylight savings cycle may be programmed into the panel.

- **Start**: Enter the date of the official start of Daylight Savings (In the U.S. it is normally the first Sunday of April).
- **Stop**: Enter the date of the official end of Daylight Savings (In the U.S it is normally the last Sunday of October).
- **NOTE** If a MicroLPM panel does not roll into Daylight Savings (no Start date programmed), then it won't roll out of Daylight Savings (even if a Stop date was programmed). However, the IQ-7.9.12Q or SIM 7.9.15S series firmware allows their respective boards to rollout of Daylight Savings, even if they didn't roll into it.

5.1.4.5 Create Data Base: Default Values: Entry/Exit Enforcement

Each panel supports three separate entry/exit enforcement levels: Strict, Lenient, and Soft. Each enforcement level can be individually assigned to Parking, Department, or Building Type readers, but is enforced only when the Entry function and the corresponding Exit function readers are on the same panel.

NOTES Entry/Exit enforcement cannot be done (at any of the 3 levels) if the entry readers are on one panel and the corresponding exit readers are on a different panel.

These panel firmware versions require the door to be opened before changing the card status, repeated accesses will be granted (regardless of the anti-passback level of enforcement) if the door is not opened:

Standard MicroLPM-	Version 1.9.7 and above
Plus 2 MicroLPM-	Version 3.9.7 and above
Plus 4 MicroLPM-	Version 7.9.7 and above

*All IQ and SIM panels require the door to be opened prior to updating the card status.

5.1.4.5.1 Create Data Base: Default Values: Entry/Exit Enforcement: Strict Entry/Exit

The cardholder's entry/exit status must be synchronized with the system, otherwise an entry/exit error will be announced. In other words, the cardholder must have the proper status (building, department, or parking) before he uses an entry/exit reader. The card status must be as follows:

If the cardholder's Building Status is IN, then Department Status can be IN or OUT. If the cardholder's Building Status is OUT, the Department Status must be OUT. If the cardholder's Department Status is IN, then Building Status must be IN.

If the cardholder's status does not comply with the reader's entry/exit definition, then the system will deny access. In other words, when a cardholder attempts to enter a Building IN reader, the cardholder's building and department status must be OUT.

5.1.4.5.2 Create Data Base: Default Values: Entry/Exit Enforcement: Lenient Entry/Exit

This level is the same as **Strict** except on the first use of the card, in which case the system will automatically reset the building and department status to proper synchronization. The cardholder's second attempt at the reader will then grant him access.

5.1.4.5.3 Create Data Base: Default Values: Entry/Exit Enforcement: Soft Entry/Exit

This level follows the same rules as **Strict** except that if an error transaction is recorded, all status levels are synchronized, and access is GRANTED.
5.1.4.6 Create Data Base: Panels

<u>d</u> ain	Default <u>V</u> alues	<u>P</u> anels	<u>Files</u> <u>R</u> eorg			
1	IQ200	11		21	31	
2	IQ200	12		22	32	
3		13		23	33	
4		14		24	34	
5		15		25	35	
6		16		26	36	
7		17		27	37	
8		18		28	38	
9		19		29	39	
10		20		30	40	
Panels:140 4180 81120 121160 161200 Select all Deselect all						

1. Click on the **Panels** tab. The **Panels** page shall appear.

Panels Selection Field

- 2. On the **Panels** page, select panel(s) for which data files will be created by selecting the appropriate type from the **Panel Model** window.
- 3. To select panels individually, select the panel model in the radial button group box, then select the panel number.

5.1.4.7 Create Data Base: Main

When you finish making your selections

1. On the **Main** page, click on the **Start** button to begin creating the selected files.

Create Data Base	
LnwFiles= C:\Program Files\PCSC\LiNC-NET version 5.14.1\files	Exit
Main Default Values Panels Files Reorg	
Start	
Warning X	
Create/rebuild database?	
<u>Yes</u> <u>N</u> o	

- 2. A pop-up window will appear, asking you if you are sure that you want to create/rebuild the database. Press the **Yes** button.
- 3. When complete click on the **Exit** button (located in the upper right hand corner) to exit the create database module.
- 4. A pop-up window will appear confirming your decision to exit CreateDB. Click "Yes".



5. You will then return to the **ConfigLN** screen. Click on the **Exit** button located in the upper right side of the screen to return to the desktop.

NOTE: Installation is complete. To start the LiNC-NET program go to Start \ Program Files\LNv5.14.xx\LiNC_NET

5.2 Installing LiNC-NET for Multi-User Host Configuration



Host is the computer that will manage the database, display the information, and monitor alarms associated with each workstation connected to it.

NOTE: Before installing LiNC-NET version 5.14.xx on the Host PC or Workstation PC, you must configure all computers to communicate with each other through the network using TCP/IP as the main protocol.

1. Go to Start\Programs\LNv5_14_xx and click on ConFigLN.

2. In the Task Communication section, be sure that the NICcard on Board is checked.

During the installation of LiNC-NET on your computer, Dssock32.ocx is registered to enable the communication of LiNC-NET network applications. In the event of changes to your system or your computer, you are given the option to Register (i.e. re-register) Dssock32.ocx through ConFigLN.

- 1. Make sure **NICcard on Board** option is checked.
- 2. Click on the Register OCX...
- 3. In the **Register OCX** window, click on **Register**.
- 4. Another pop-up window will appear saying **OCX is registered**.
- 5. Click OK.
- 6. Click **Close** to Register OCX window.
- 7. Click once on the **Write** button located in the top left side of the screen.

Re	egister OCX	
File	C:\WINDOWS\Syst	tem32\Dssock32.ocx
	<u>R</u> egister	<u>U</u> nregister
	<u><u><u></u><u></u><u></u></u></u>	ose

Click on **LiNC-NET on Network** (disables CLIENTs) option and the computer will default to the **I am Host** selection.

NOTE:	am Host must be selected if the computer is the Host for LiNC-NET
	.14. All panels are connected to the Host PC in this configuration.

As soon as the desired configuration is set in the **Task Communication** section, save it by clicking once on the **Write** button located in the top left side of the screen.

NOTE: All panels receive the date and time from the Host PC in this configuration.

Task communication				
☑ NICcard on board		essaging mode Local b	oase port 0 📑 0=2700 (2700-2739)	
C Stand alone Register OCX		💿 I am Host	Remote base port	
LINC-NET on network (disables CLIENT)		C I am Work Station		
O Concentrators on n	etwork	C I am Concentrator		

Version: 05.14.01		=
Read	Set default Change font	E <u>x</u> it
Write		

5.2.1 Creating the LiNC-NET Database Folder

The default setting for the database folder is set to point to the c:\Program Files\PCSC\LiNC-NET version 5.14.xx Files folder (see screen below).

- 1. Right-click the Start button from your Windows desktop.
- 2. Open Explorer.
- 3. Using Explorer, find C:\Program Files\PCSC\LiNC-NET version 5.14.xx.
- 4. In the menu bar of the Explorer window, select File.
- 5. In the **File** menu, select **New > Folder**.
- 6. A new folder should appear within the LINC-NET version 5.14.xx directory. Rename the folder to Files.
- 7. Close Windows Explorer.
- 8. Go to Start\Programs\LNv5_14_xx and click on ConFigLN.

Database ☐ Use shared dri	ve		
Find folder	C:\Program Files\PCSC\LiNC-NET version 5.14.1\files	BDE config	Create

- 9. In the **Database** section, click on the **Find folder**... button. This will open the **Browse for Folder** window (below).
- 10. In the **Browse for Folder** window, select the appropriate drive and/or folder.

Browse for Folder	? X
Get database directory	
🕀 💼 MSN Gaming Zone	
🕀 💼 MusicMatch	
NetMeeting	
🕀 🛅 Online Services	
- Outlook Express	
📄 📄 🖻 PCSC	
E LiNC-NET version 5.13.2	
LiNC-NET version 5.14.1	
🗊 🕀 💼 🔁 🖬	
🕀 🧰 GAdeploy	
🔚 🗌 Orig	
📄 👘 🦳 pressplav	_ <u></u>
	<u>·</u>
OK Canc	el

11. Click on OK to return to the ConFigLN menu. The Database section will now reflect C:\ProgramFiles\PCSC\LiNC-NET version 05.14.xx\Files.

Database		
Find folder C:\Program Files\PCSC\LiNC-NET version 5.14.1\files	BDE config	Create

12. Click on the Write button in the top left side of the screen to save the new setting.

Using a Shared Mapped Network Drive in a Multi-user System

This section shows how you can map a drive (assign a letter to the folder and authorize any workstation to see and access this folder like a physical drive). This is specifically used in a multi-user environment.

5.2.1.1 Sharing a Folder

🛃 ConFigLN	×
Version: 05.14.01	
Read Set default Change font	
Write	
Main SIO Journal Language Norwegian Javelin Comments	
Task communication	
▼ NICcard on board	
C Stand alone Register OCX C I am Host Remote base port	
C Concentrators on network C Lam Concentrator	
Database	
Vse shared drive Tt [unassigned]	
BDE config Create	
Miscellaneous	
Previous version not LiNC-NET for Windows	
MicroLPM PLUS4 in use Photo Imaging install	
CLIENTS in use (not allowed on Network)	
Alarm routing	

- 1. Check on the Use Shared Drive square. This will create a Share Drive... button.
- 2. Click on the **Down Arrow** to select a Drive Letter you want to map (example: T:\unassigned)
- 3. Click on the Share Drive... button to see the contents of the folder.
- 4. If the content of the folder isn't displayed in a full screen, click the square middle button on the right top of the window menu so that it may enlarge to full-screen.

NOTE When you select a share drive, the **Find folder...** is not used. The database can be mapped to a drive anywhere in the network where sufficient disk space can be allocated.

- 5. Go to View and click on Toolbar, Check Standard Buttons..
- 6. Click on the Up One Level icon to go one level up in the directory.

EiNC-NET version 5.14.1						
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp						
🕞 Back 🝷 💮 🖌 🏂 🔎 Search 🦻 Fo	Iders					
Folders X		\sim	\supset			
	files	GAdeploy	Orig	_me	_menu	
E Carle Hair House of Anna Anna Anna Anna Anna Anna Anna Ann						
🕀 🛅 GAdeploy	_mepw	_syal	_sybi	_sydoov	_syfg	
⊞ 🚞 pressplay 🛅 QtraxMax			•••			
⊕ QuickenFC ⊕ Real	_syin	syot	_sypl	_sypw	 _sysipc	
	F			a	E	
 	_sysiul	_sytgbu	_USCA	_USCAAC	_uscaag	
Lipinstall Information						-

- 7. Click on the folder name that has been chosen during the **previous step** configuration (in this case, **Files**).
- 8. Right-Click on the folder to select (highlight) it and bring up the Windows' options.

9. Click on Sharing.



10. In the **Sharing** tab select the **Share As/Share This Folder** option. The name of the folder will appear in the **Share Name** windows.

files Properties
General Sharing Security Customize
You can share this folder with other users on your network. To enable sharing for this folder, click Share this folder.
O Do not share this folder
Share this folder
Share name: files
Comment:
User limit: 💿 Maximum allowed
C Allow this number of users:
To set permissions for users who access this folder over the network, click Permissions.
To configure settings for offline access, click Caching
OK Cancel Apply

- 11. Click on the Maximum Allowed button within the User Limit section.
- 12. Click on **Apply** to confirm the share and **OK** to exit from the sharing window.



13. Windows Explorer will appear. Click on Tools and choose Map Network Drive.

Note: Example Windows 2000

14. The **Map Network Drive** menu illustrates that the shared drive has been chosen to be **T**, and that it is located on the PC named HOST. The **Files** folder contains the information (LiNC-NET data files) that will be map\shared. Use the **Browse...** button to locate the folder if necessary.

Map Network Drive		×
	Windows and assi access the Specify t that you	s can help you connect to a shared network folder gn a drive letter to the connection so that you can he folder using My Computer. the drive letter for the connection and the folder want to connect to:
	<u>D</u> rive:	T:
	F <u>o</u> lder:	Files Browse
		Example: \\server\share
		Reconnect at logon
		Connect using a different user name.
		Sign up for online storage or connect to a network server.
		< Back Finish Cancel

- 15. Click the **Finish** button. A pop-up folder displaying the contents of the LiNC-NET 5.14 folder will appear. In the folder window, go to **File** and click on **Explore**.
- 16. Click on the Close button and the Map Network Drive menu closes (as do all of the pop-up boxes) and the create database menu appears. Notice that the previously selected Shared Drive and Path are now displayed within the Use Share Drive window.

17. Click on the **Write** button to record the designated **Share Drive** information to the PC's hard disk drive.

🛃 ConFigLN	
Version: 05.14.01	
<u>R</u> ead	Set default Change font
Write	
Main SIO Journal Language Norwegian	Javelin Comments
_ Task communication	
☑ NICcard on board	saging mode Local base port 0 📑 0=2700 (2700-2739)
○ Stand alone Register OCX	I am Host Remote base port
LINC-NET on network (disables CLIENTs	I am Work Station
O Concentrators on network	I am Concentrator
Database	
Use shared drive T:\\HOST\Files	Share drive
	BDE config Create
Miscellaneous	
Microl PM PLUS4 in use	MICFOLPM ELV IN USE V ELV: Max one button Photo Imaging I OPION
CLIENTS in use (not allowed on Network)	✓ LiNC-IDinstall
🔽 Operator Audit	Alarm routing

EXAMPLE If **FILES** is the folder created and shared, then the mapping with the letter "T" should look like the screen above.

Read Set default Change font	Version: 05.14.01		– – – –
	Read Write	Set default Change font	E <u>x</u> it

5.2.2 Configuring the Borland Database Engine (BDE)

This option is used to set the Borland Paradox database, the DBMS (Database Management System) needed to run LiNC-NET for Windows.

- 1. Click on the **BDE config**... button. The screen shown below will appear.
- 2. The NET DIR window displays the drive letter found in the BDEAdmin file.

🛃 BDE configu	ration	
NET DIR	C:\PROGRA~1\PCSC\LINC-	<u>R</u> ead
suggested	T:V	<u>W</u> rite
BLOCK SIZE	2048 💌	
LOCAL SHARE	TRUE	<u><u> </u></u>

3. The **NET DIR** window must show the same drive letter set in **Use Shared Drive** or the Database Find folder field. Click on the ...**suggested** button to change the configuration.

🛃 BDE configu	ration	<u>- 🗆 ×</u>
NET DIR	Τ:X	<u>R</u> ead
[suggested]	T:X	<u>₩</u> rite
BLOCK SIZE	2048 💌	
LOCAL SHARE	TRUE	<u>I</u> <u>C</u> lose

- 4. The BLOCK SIZE value is 2048 (default value).
- 5. The **LOCAL SHARE** value must be set to **TRUE** regardless of whether or NOT a shared drive is employed.
- 6. As soon as all the parameters have been set, click on the **Write** button to save these changes in the **BDEAdmin** file.
 - **NOTE** The next time the **BDE config**... is pressed, the **BDE** configuration window will display the **NET DIR**, **BLOCK SIZE** and **LOCAL SHARE** information. The ...**suggested** option will not be shown.
- 7. Click on the **Close** button to complete this step.
- 8. Click the Write button in ConFigLN to save changes.

5.2.3 Creating the LiNC-NET Database

NOTE: If you are establishing a database for a system that uses concentrators, go to the Concentrator Installation section of the manual to see the steps to create a Concentrator database.

Creating the database is a fairly simple process. There are four steps: establishing the Default Values you wish to use in your LiNC-NET system; determining the panels you will be using with your system; determining which file-types will be monitored in your system; and then compiling the database to your specification.

In the ConFigLN Data Base section:

1. Click on the **Create**... button in **ConFigLN**. The **Create Data Base** screen will appear. Notice that you are currently displaying the **Main** page.

ConFigLN	
Version: 05.14.01	
Read	Set default Change font
Main SIO Journal Language Norwegian	Javelin Comments
_Task communication	
🔽 NICcard on board 🛛 🗖 Alternate messa	ging mode Local base port 0 = 2700 (2700-2739)
C Stand alone Register OCX	am Host Remote base port
● LiNC-NET on network (disables CLIENTs ● I	am Work Station
O Concentrators on network	am Concentrator
Database	
☑ Use shared drive T:\\HOST\Files	Share drive
	BDE config Create
Miccollopoouo	
Previous version not LiNC-NET for Windows	MicroLPM ELV in use 🔽 ELV: Max one button
MicroLPM PLUS4 in use	Photo Imaging
CLIENTS in use (not allowed on Network)	LINC-IDInstall
🔽 Operator Audit	☐ Alarm routing

	Create Dat	ta Base			
	LnwFiles=	T:\\HOST\FILE	S		Exit
$\left(\right)$	<u>M</u> ain D	efault <u>V</u> alues	Panels Files	<u>R</u> eorg	
			<u>S</u> tart		

5.2.3.1 Create Data Base: Default Values

1. Click on the **Default Values** tab to select the default values for:

Card Technology Door Access Time Card Table Format Daylight Savings Dates Entry/Exit Enforcement Options

NOTE: If settings are correct, go to the **Panels** tab for the next step.

Use the explanations provided in the following section to help you determine your **Default Values** selections

Create Data Base	
LnwFiles= T:/	
Main Default Values Panels Files Reorg	
CARD TECHNOLOGY	DAYLIGHT SAVINGS
Format PCSC 26,37,40	Start 3/24/1980
DOOR LOCK ACCESS TIME	Stop 10/29/1980
	ENTRY/EXIT ENFORCEMENT
Primary expiration (park/global) Global 🔻	Parking Off 💌
PIN or Parking reader expiration date	Department Off 💌
 Names for cardholders exist 12-digit card numbers 	Building Off 💽

Default Values Page

5.2.3.2 Create Data Base: Default Values: Card Technology

In this section, you must select the card reader technology that you will implement into your access control system. Select the appropriate type of card reader in the **Format window**. The available card technology formats are as follows:

ProTech	BR-350, BR-351, BR-370, BR-371
MagStripe	BR-450, BR-451, BR-452, BR-470, BR-471
Watermark	Any Watermark card with the 12-digit format
PCSC Wiegand	34-bit PCSC Wiegand format, All Sensor Proximity Readers
Indala	Indala Proximity format
12-Digit	No site code; Magnetic Stripe, barcode
Sensor 26	Standard Sensor 26-bit format. All Hughes ID Proximity Readers, BR-700, and many standard OLM readers.
Sensor 34	Standard Sensor 34-bit format
Special	Special format
PCSC 26, 37, 40	Standard PCSC Proximity format
Corp_1000	Special 35 bit HID Proximity format
Motorola 32	Special 32 bit Motorola Proximity format
Smartcard_40	HID 40-bit Smartcard format

A letter or additional reference description that describes the reader type can follow the card technology:

- **PIN-Pad** PIN Pad with the reader.
- (I) Insert Reader

5.2.3.3 Create Data Base: Default Values: Door Lock Access Time

The **Door Access Time** is the length of time that the door lock is to be energized. The actual length of time is 1/2 second less than the number of seconds specified. For example, access time value of 1 denotes 1/2 second of access and time value of 5 denotes 4 1/2 seconds. Value of 1 is generally used for turnstiles.

You must select time values for both the Standard (Access) and Long (Access)

Standard Access is the normal door lock energize time. Select an access time from 1-998 seconds (2-998 seconds for elevator readers).

Long Access is the door-lock energize time for cardholders that require a longer access time than the standard access time (i.e. an individual with a disability). Select an access time from 2-999 seconds (3-999 seconds for elevator readers).

5.2.3.4 Create Data Base: Default Values: Card Table Format

Primary Expiration

Global - When selected, the Primary expiration date is used for all cards at all readers wired to the panel. It is irrelevant whether the readers are parking, building or department readers, as the secondary expiration date is not used.

If you select **Global**, the system uses the Primary expiration date for all types of readers. In selecting **Global**, the PIN feature is automatically selected (and visa versa).

If you select **Park-Only**, each cardholder has 2 card expiration dates. One date controls the access privilege for "parking" type readers and the other for all other types of readers. This unique function allows the system administrator to automatically deny access to cardholders at parking readers, yet allow them to pass through facility related readers.

PIN or Parking reader expiration date (Parking Readers)

Park-Only - When selected, the secondary expiration date is used for all cards, but only at parking readers wired to the panel. The primary expiration date is then only used at department and building type readers.

Names for Cardholders Exist

PCSC panel products have the ability to store the cardholder names within the panel itself. Selecting this option will decrease the number of cardholders in a standard MicroLPM panel from 1016 to 600 cardholders (IQ and SIM board capacity are unaffected by downloading names). If you require names and more cardholders than 600, you will need to purchase a memory expansion kit for the MicroLPM panel.

12-Digit Card Number

Various card formats are available within the system. When using the **MagStripe** or **Watermark** format where a site code is not available, this option must be selected. For example, the MicroLPM (and I.Q. and SIM) series supports 5 - 12 digit ABA Track 2 format data.

5.2.3.5 Create Data Base: Default Values: Daylight Savings

The daylight savings cycle may be programmed into the panel.

- **Start**: Enter the date of the official start of Daylight Savings (In the U.S. it is normally the first Sunday of April).
- **Stop:** Enter the date of the official end of Daylight Savings (In the U.S it is normally the last Sunday of October).
- **NOTE** If a MicroLPM panel does not roll into Daylight Savings (no Start date programmed), then it won't roll out of Daylight Savings (even if a Stop date was programmed). However, the IQ-7.9.12Q or SIM 7.9.15S series firmware allows their respective boards to rollout of Daylight Savings, even if they didn't roll into it.

5.2.3.6 Create Data Base: Default Values: Entry/Exit Enforcement

Each panel supports three separate entry/exit enforcement levels: Strict, Lenient, and Soft. Each enforcement level can be individually assigned to Parking, Department, or Building Type readers, but is enforced only when the Entry function and the corresponding Exit function readers are on the same panel.

NOTES Entry/Exit enforcement cannot be done (at any of the 3 levels) if the entry readers are on one panel and the corresponding exit readers are on a different panel.

These panel firmware versions require the door to be opened before changing the card status, repeated accesses will be granted (regardless of the anti-passback level of enforcement) if the door is not opened:

Standard MicroLPM-	Version 1.9.7 and above
Plus 2 MicroLPM-	Version 3.9.7 and above
Plus 4 MicroLPM-	Version 7.9.7

*All IQ and SIM panels require the door to be opened prior to updating the card status.

5.2.3.6.1 Create Data Base: Default Values: Entry/Exit Enforcement: Strict Entry/Exit

The cardholder's entry/exit status must be synchronized with the system, otherwise an entry/exit error will be announced. In other words, the cardholder must have the proper status (building, department, or parking) before he uses an entry/exit reader. The card status must be as follows:

If the cardholder's Building Status is IN, then Department Status can be IN or OUT. If the cardholder's Building Status is OUT, the Department Status must be OUT. If the cardholder's Department Status is IN, then Building Status must be IN.

If the cardholder's status does not comply with the reader's entry/exit definition, then the system will deny access. In other words, when a cardholder attempts to enter a Building IN reader, the cardholder's building and department status must be OUT.

5.2.3.6.2 Create Data Base: Default Values: Entry/Exit Enforcement: Lenient Entry/Exit

This level is the same as **Strict** except on the first use of the card, in which case the system will automatically reset the building and department status to proper synchronization. The cardholder's second attempt at the reader will then grant him access.

5.2.3.6.3 Create Data Base: Default Values: Entry/Exit Enforcement: Soft Entry/Exit

This level follows the same rules as **Strict** except that if an error transaction is recorded, all status levels are synchronized, and access is GRANTED.

5.2.3.7 Create Data Base: Panel

Create Data Base									
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<u>M</u> a	in	Default <u>V</u> alues	<u>P</u> anels	<u>F</u> iles	<u>R</u> eorg				
1		10200	11		21		31		
2		IQ200	12		22		32		
3			13		23		33		
4			14		24		34		
5			15		25		35		
6			16		26		36		
7			17		27		37		
8			18		28		38		
9			19		29		39		
10)		20		30		40		
Panels:140 4180 81120 121160 161200 Select all Deselect all									
Panel model IQ200 Scan									

1 Click on the **Panels** tab. The **Panels** page shall appear.

Panel Selection Field

- 2. On the **Panels** page, select panel(s) for which data files will be created by selecting the appropriate type from the **Panel model** window.
- 3. To select panels individually, select the panel model in the radial button group box, then select the panel number.

5.2.3.8 Create Data Base: Main

When you finish making your selections

1. On the **Main** page, click on the **Start** button to begin creating the selected files.

Create I	Data Base	
LnwFiles=	= T:V	Exit
<u>M</u> ain	Default <u>V</u> alues <u>P</u> anels <u>F</u> iles <u>R</u> eorg	
	<u>S</u> tart	

2. A pop-up window will appear, asking you if you are sure that you want to create/rebuild the database. Press the **Yes** button.

Warning		×
1	Create/rebuild dat	abase?
	Yes No	

- 3. When complete click on the **Exit** button (located in the upper right hand corner) to exit the create database module.
- 4. A pop-up window will appear confirming your decision to exit Create DB. Click "Yes."



5. You will then return to the **ConfigLN** screen. Click on the **Exit** button located in the upper right side of the screen to return to the desktop.

Version: 05.14.01		
Read	Set default Change font	
Write		

NOTE: Installation is Complete. To start the LiNC-NET program, go to Start\Program Files\LVn5_14_xx\LiNC_NET



Workstation - Up to 20 PC's may function as a workstation by communicating in a Peer to Peer method (equal ability to perform the same job at any PC in the local area network). Workstations do not store data, nor do they communicate directly with the panels. The Host PC in a LiNC-NET system stores all data on its hard disk drive and also communicates directly to the panels.

- **NOTE** Before installing LiNC-NET for Windows-NT, version 5.14 in the Host PC or Workstation PC, you must configure all computers to communicate with each other through the network using TCP/IP as the main protocol. The user who sets the **ConFigLN** program must have a user account set in the **Host Windows NT/2000** computer in order to create a shared drive with this computer. This user account must have the right to connect remotely to the Host computer. (See **Create a User Account** section in the LiNC-NET for Windows- NT/2000 Administrator Manual for further information.)
- 1. Go to Start\Programs\LNv5_14_xx on ConFigLN.
- 2. In the Task Communication section, be sure that the NICcard on Board is checked.
- Click on the LiNC-NET on network (disables CLIENTs) option and the computer will be set, per default, as a Host in a multi-user environment (I am Host selected).
- 4. Select the I am Workstation option.
- 5. In the **local PC number** scroll menu, choose a number between **21** and **40**. This number must be unique for each workstation (PC) installed in the multi-user environment. The number for the first workstation used in the example is 21.
- In the Host PC Name window, type the Host computer name (check in the Setting\Control Panel\Network\Identification tab of the Host computer, if needed). In the example, the HOST PC name is HOST.

I	Task communication				
	NICcard on board	Alternate messaging mode		Local base port	0 0=2700 [2700-2739]
	C Stand alone	Register OCX	⊂ I am Host	Local PC number	21 💌
	● LiNC-NET on network (disa	bles CLIENTs)	● I am Work Station	HOST PC name	HOST
	C Concentrators on networ	k	C I am Concentrator	HOST base port	0 1=2700 [2700-2739]

NOTE If the computer is a workstation, I am Workstation must be selected. Each workstation must be assigned a unique Local PC number (from **21** to **40**) and the Host computer name to which the workstation is connected.

Workstation Installation

Version: 05.14.01 Read Write	Set default Change font	Exit
	As soon as the desired configuration is set in the Task Communication section, save it by clicking once on the Write button located in the top left side of the screen.	

During the installation of LiNC-NET on your computer, Dssock32.ocx is registered to enable the communication of LiNC-NET network applications. In the event of changes to your system or your computer, you are given the option to Register (i.e. reregister) Dssock32.ocx through ConFigLN.

- 1. Make sure **NICcard on Board** button is checked.
- 2. Click on Register OCX...
- 3. In the Register OCX window, click on Register.
- 4. Another pop-up window will appear saying OCX is registered.
- 5. Click OK.
- 6. Click **Close** to Register OCX.
- 7. Click once on the Write button located in the top left side of the screen.

Task communication			
▼ NICcard on board	Alternate messaging mode	Local base port	0 = 2700 [2700-2739]
© Stand alone	ster OCX C I am Host	Local PC number	21 💌
Einc-NET on network (disables C	Register OCX		HOST
O Concentrators on network	File C:\WINDOWS\System32\	Dssock32.ocx	0=2700 [2700-2739]
· ·	<u>R</u> egister <u>U</u>	nregister	
	R. Char	1	

5.3.1 Connecting to the Mapped Host Drive in a Multi-user System

This section shows you to map to the Host Database via the network drive. This option is specifically used in a multi-user environment. To learn how to map a network drive, see the appropriate section in the Host section of this manual.

IMPORTANT	Before selecting the Shared Drive, you must first map the
	Host Database during the Host setup.

Version: 05.14.01-9 Read Set default Change font Image: Set default Change font Image: Exit Main Sto Journal Language Norwegian Javelin Comments Task communication Image: Norwegian Javelin Comments Image: Set default Change font Image: Norwegian Javelin Comments Image: Set default Change font Task communication Image: Norwegian Javelin Comments Image: Set default Change font Image: Norwegian Javelin Comments Image: Set default Change font Image: Set default Change font Task communication Image: Alternate messaging mode Local base port Image: Set default Change: Set default Set default <th>ConFigLN</th> <th></th> <th></th>	ConFigLN				
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C Stand alone Register OCX C I am Host Local PC number 21 ▼ C LINC-NET on network (disables CLIENTE F I am Work Station HOST PC name Host C Concentrators on network F I am Concentrator HOST PC name Host Database I am Concentrator HOST base port I am Concentrator Database I am Concentrator HOST base port I am Concentrator I Use shared drive I am Concentrator BDE config Create Miscellaneous I MicroLPM FLUV in use I ELV: Max one button MiscroLPM PLUS4 in use I Photo Imaging install O RION I CLIENTS in use (not allowed on Network) I LINC-ID Building hours report	NICcard on board 🗌 Alternate me	ssaging mode Local base port 0	0=2700 [2700-2739]		
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Use shared drive Find folder C:\Program Files\PCSC\LINC-NET version 5.14.1\files BDE config Create Miscellaneous Image: Config Previous version not LINC-NET for Windows Image: Config Previous version not LINC-NET for Windows Image: Config Image: CLIENTS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) Image: ClientS in use (not allowed on Network) <td colspan="5">Database</td>	Database				
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Miscellaneous Previous version not LINC-NET for Windows MicroLPM PLUS4 in use CLIENTS in use (not allowed on Network) Operator Audit MicroLPM CLIENTS in use (not allowed on Network) Atarm routing MicroLPM CLIENTS in use (not allowed on Network) MicroLPM CLIENTS in use (not allowed on Net	Find folder C:\Program Files\PCSC\Li	Find folder C:\Program Files\PCSC\LINC-NET version 5.14.1\files BDE config Create			
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Operator Audit Alarm routing Building hours report	CLIENTS in use (not allowed on Network)	LINC-IDinstall	_ ORION		
	Operator Audit	Alarm routing	🔽 Building hours report		

1. In the Database section of ConFigLN, click the **Use shared drive** radio button to make the Share Drive active. Choose will show **[T:/unassigned]** for the mapping location.

ConFigLN
Version: 05.14.01
Read Set default Change font
Write
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Task communication
VICcard on board TAlternate messaging mode Local base port 0 🕂 0=2700 (2700-2739)
C Stand alone Register OCX C I am Host Remote base port
LINC-NET on network (disables CLIENTs) C I am Work Station
C Concentrators on network
Database
BDE contig Create
Miscellaneous
C Previous version not LiNC-NET for Windows V MicroLPM ELV in use V ELV: Max one button
MicroLPM PLUS4 in use Photo Imaging ORION

- 2. Minimize ConFigLN and go you the Workstation desktop.
- 3. Double-click on My Network Places (Network Neighborhood on NT4).
- 4. You will see all the computers that are currently connected to the Workstation computer. Locate the **Host** PC name on the network.
- 5. Double-click on Host PC name. You will see all the shared folders on the Host PC. Choose the LiNC-NET database folder (usually **Files**).
- 6. Right-click the folder, and select Map Network Drive .
- 7. The **Map Network Drive** pop-up window will appear. Choose the drive letter that was mapped on the **Host** (ie. **T:\Host\Files**)

NOTE Make sure "Reconnect at Logon" is checked before closing window

- 8. Click the **OK** button. The mapped folder will appear. The mapping is completed. Close all Windows Explorer windows.
- 9. Restore ConFigLN. You should see the T: drive mapped to the appropriate location (ie. **T:\Host\Files**).

Version: 05.14.01		
Write		
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Task communication		
🔽 N Ccard on board 👘 Alternate messaging mode Local base port 0 📑 0=2700 [2700-2739]		
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C LINC-NET on network (disables CLIENT: C I am Work Station HOST PC name Host		
💿 Concentrators on network 💿 I am Concentrator HOST base port 🛛 🐳 0=2700 [2700-273		
Database ✓ Use shared drive T∴HOST \FILES Share drive BDE config Create		
Miscellanepus		
✓ MicroLPNI PLUS4 in use ✓ Photo Imaging ORION		
CLIENTS in use (not allowed on Network) V LINC-ID		
Coperator Audit Coperator Audit Alarm routing Building hours report		

10. Click the Write button to save your changes.

5.3.2 Configuring the Borland Database Engine (BDE)

This option is used to set the Borland Paradox database, the DBMS (Database Management System) needed to run LiNC-NET for Windows.

- 1. Click on the **BDE config**... button. The screen shown below will appear.
- 2. The NET DIR window displays the drive letter found in the BDEAdmin file.

📴 BDE configu		
NET DIR	C:\PROGRA~1\PCSC\LINC-	<u>R</u> ead
suggested	T:X	Write
BLOCK SIZE	2048 💌	
LOCAL SHARE	TRUE	<u><u> </u></u>

3. The **NET DIR** window must show the same drive letter set in **Use Shared Drive** or the Database Find folder field Click on the ...**suggested** button to change the configuration.

🛃 BDE configu		
NET DIR	ΤΑ	<u>R</u> ead
[suggested]	T:X	<u>₩</u> rite
BLOCK SIZE	2048	
LOCAL SHARE	TRUE	<u><u> </u></u>

- 4. The **BLOCK SIZE** value is **2048** (default value)
- 5. The **LOCAL SHARE** value must be set to **TRUE** regardless of whether or NOT a shared drive is employed.
- 6. As soon as all the parameters have been set, click on the **Write** button to save these changes in the **BDEAdmin** file.
 - **NOTE** The next time the **BDE** config... is pressed, the **BDE** configuration window will display the **NET DIR**, **BLOCK SIZE** and **LOCAL SHARE** information. The ...**suggested** option will not be shown.
- 7. Click the **Close** button to complete this step.
- 8. Click the Write button in ConFigLN to save changes. You are then free to Exit.

5.4 Installing LiNC-NET for a Multi-User Concentrator Configuration



Concentrator- A special application for a PC that is neither the Host nor one of the Workstations. A concentrator operates as an interface between the Host PC and (up to) 200 panels each. LiNC-NET 5.14 will support up to 20 concentrators in one system, permitting a Host to monitor up to 4000 panels!

- If your LiNC-NET system includes **Concentrators**, the **Host** is not able to connect directly to the system panels. All panels must be connected through the Concentrators.
- Concentrators will often operate in a system with Workstation PCs. However, at this time, LiNC-NET 5.14 does not allow Concentrators to function as Workstations.
- All panels except modem panels receive their date and time from each concentrator PC.

Using a Concentrator System

- 1. Go to Start\Programs\LNv5_14_xx and click on CONFIGLN.
- 2. In the Task Communication section, be sure that the NICcard on Board is checked.
- 3. Click on the ... Concentrator on network option and the computer will be set, by default, as a Host in a multi-user environment (I am Host selected).
- 4. Select the I am Concentrator option.
- 5. In Local PC Number scroll menu, choose a number between **1** and **20**. This number must be unique for each concentrator (PC) installed in the multi-user environment. The example below indicates 5 as the Local PC Number.

[Task communication				
	NICcard on board	🔲 Alternate m	essaging mode	Local base port	0 0=2700 [2700-2739]
	Stand alone	Register OCX	C I am Host	Local PC number	1 💌
	C LiNC-NET on network (disa	bles CLIENTs)	○ I am Work Station	HOST PC name	HOST
	 Concentrators on network 		I am Concentrator	HOST base port	0 0=2700 [2700-2739]

- 6. In the **Host PC** name window, type the Host computer name (check in **Control Panel\Setting\Network\Identification** tab in the Host computer, if needed). The example above uses HOST as the HOST PC name.
 - **NOTE** If the computer is a Concentrator, **I am Concentrator** must be selected. Each concentrator must be assigned a unique Local PC number (from 1 to 20) and the Host computer name to which it is connected.
- 7. As soon as the desired configuration is set in the **Task Communication** section, save it by clicking once on the **Write** button located in the top left side of the screen.

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Read Write	Set default	Change font	<u> </u>

During the installation of LiNC-NET on your computer, Dssock32.ocx is registered to enable the communication of LiNC-NET network applications. In the event of changes to your system or your computer, you are given the option to Register (i.e. re-register) Dssock32.ocx through ConFigLN.

- 1. Make sure **NICcard on Board** button is checked.
- 2. Click on Register OCX...
- 3. In the **Register OCX** window, click on Register.
- 4. Another pop-up window will appear saying OCX is registered.
- 5. Click OK.
- 6. Click **Close** to register OCX
- 7. Click once on the Write button located in the top left side of the screen.

Task communication		
☑ NICcard on board	Alternate messaging mode	Local base port 0 2700 [2700-2739]
C Stand alone Reg	ister OCX O I am Host	Local PC number 1
C LINC-NET on network (disables	Register OCX	HOST
• Concentrators on network	File C:\WINDOWS\System32\Dssock	(32.ocx) port 0 🚽 0=2700 [2700-2739]
		er literature and the second sec
	👖 Close	

NOTE All panels are connected directly to the concentrator(s) and receive the date and time from the concentrator in this configuration.

5.4.1. Connecting to the Mapped Host Drive in a Multi-user System

This section shows you how to map to the Host Database via the network drive. This is specifically used in a multi-user environment. To learn how to map a network drive, see the appropriate section in the Host section of this manual.

IMPORTANT	Before selecting the Shared Drive, you must first map the Host
	Database during the Host setup.

ConFigLN				
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<u>R</u> ead		Set default Cha	nge font	
Write				
Main SIO Journal Languad	ge Norwegian Javelin Cor	nments		
Task communication	· · · ·	1		1
☑ NICcard on board	Alternate messaging mode	Local base port 0	▲ 0=2700 [2700-2739]	
C Stand alone Regis	ter OCX C I am Host	Local PC nur	mber 1 💌	
C LINC-NET on network (disable	les CLIENTs 🔘 I am Work Sta	tion HOST PC na	me Host	
	I am Concentr	ator HOST base p	oort 0 - 0=2700 [27	/00-2739]
Database				
Use shared drive				
Find folder C:\Program	Files\PCSC\LiNC-NET version	5.14.1\files	BDE config Cre	eate
Miscellaneous				
Previous version not LINC-NE	I for Windows V MicroLP	MELVINUSE	J✓ ELV: Max one button	
CLIENTS in use (not allowed	an Network)	install	I ORION	
 Operator Audit 	Alarm ro	uting	🔽 Building hours report	

1. In the Database section of ConFigLN, click the **Use shared drive** radio button to make the Share Drive active. Choose **[T:\unassigned]** for the mapping location.

E ConFigLN	
Version: 05.14.01-9	
<u>R</u> ead	Set default Change font
Write	
Main SIO Journal Language Norwegian J	Javelin Comments
Task communication	
▼ NICcard on board	ging mode Local base port 0 👘 0=2700 (2700-2739)
C Stand alone Register OCX	am Host Local PC number 1
C LINC-NET on network (disables CLIENTs O I a	am Work Station HOST PC name Host
Concentrators on network	am Concentrator HOST base port 0 = 2700 [2700-2739]
Database	
Vse shared drive T:1 [unassigned]	Share drive
	BDE config Create
Miscellaneous	
Previous version not LINC-NET for Windows	MicroLPM ELV in use ELV: Max one button
MicroLPM PLUS4 in use	Photo Imaging ORION
CLIENTS in use (not allowed on Network)	LINC-ID
Operator Audit	Alarm routing 🔽 Building hours report

- 2. Minimize **ConFigLN** and go you the Workstation desktop.
- 3. Double-click on My Network Places (Network Neighborhood on NT4).
- 4. You will see all the computers that are currently connected to the Workstation computer. Locate the **Host** PC name on the network.
- 5. Double-click on Host PC name. You will see all the shared folders on the Host PC. Choose the LiNC-NET database folder (usually **Files**).
- 6. Right-click the folder, and select Map Network Drive .
- 7. The **Map Network Drive** pop-up window will appear. Choose the drive letter that was mapped on the **Host** (ie. **T:\Host\Files**)

```
NOTE: Make sure "Reconnect at Logon" is checked before closing window
```

- 8. Click the **OK** button. The mapped folder will appear. The mapping is completed. Close all Windows Explorer windows.
- 9. Restore ConFigLN. You should see the **T**: drive mapped to the appropriate location (ie. **T:\Host\Files**).

Version: 05.14.01-9 Set default Change font	
DELUEIAUU I LUIAUUE UUU I	Exit
Write	
Mai SIO Journal Language Norwegian Javelin Comments	
Task communication	
VCcard on board Alternate messaging mode Local base port 0 = 2700 [2700-2739]	
C Stand alone Register OCX C I am Host Local PC number 1	
C LiNC-NET on network (disables CLIENT: C I am Work Station HOST PC name Host	
Concentrators on network	00-2739]
Database	
Use shared drive TAHOST VELES Share drive	
BDE config Cre	ate
Previous version not LINC-INET for Windows MicroLPM ELV in use Photo Imaging L OPION	
CLIENTS in use (not allowed on Network)	
I Operator Audit	

10. Click the Write button to save your changes.

5.4.2 Configuring the Borland Database Engine (BDE)

This section is used to set the Borland Paradox database, the DBMS (Database Management System) needed to run LiNC-NET for Windows.

- 1. Click on the **BDE config...** button. The screen shown below will appear.
- 2. The NET DIR window displays the drive letter found in the BDEAdmin file. Click on the **suggested** button and the suggested drive letter will appear.

🛃 BDE configu	Iration	_ 🗆 ×
NET DIR	C:\Program Files\PCSC\LiNC-	(<u>R</u> ead
suggested	T:N	Write
BLOCK SIZE	2048 💌	
LOCAL SHARE	TRUE	<u><u> </u></u>

- 3. The **NET DIR** window must show the same drive letter set in **Use Shared Drive.** Click on the ...**suggested** button to change the configuration.
 - 4. The BLOCK SIZE value is 2048 (default value)
 - 5. The **LOCAL SHARE** value must be set to **TRUE** regardless of whether or NOT a shared drive is employed.
- 6. As soon as all the parameters have been set, click on the **Write** button to save these changes in the **BDEAdmin** file.
- 7. Click the **Close** button to complete this step.
- 8. Click the Write button in ConFigLN to save changes.
 - **NOTE** The next time the **BDE** config... is pressed, the **BDE** configuration window will display the **NET DIR**, **BLOCK SIZE** and **LOCAL SHARE** information. The ...**suggested** option will not be shown because the **NET DIR** information is the same as the **Use Shared Drive** setting.

🛃 BDE config	juration		- 🗆 ×
NET DIR	T:\		
			<u>₩</u> rite
BLOCK SIZE	2048	ž	
LOCAL SHARE	TRUE	Į	

5.4.3 Creating a LiNC-NET Concentrator Database

Establishing a database for a system with concentrator is slightly different than creating one without them. In most cases, the database will be set up on the Host PC, though it may be set up on any computer on the network, including the Concentrator itself. In this situation, we will assume that the concentrator database is being created on the Host PC.

Creating the database is a fairly simple process. There are four steps: establishing the Default Values you wish to use in your LiNC-NET system; determining the panels you will be using with your system; determining which file-types will be monitored in your system; and then compiling the database to your specification.

In the ConFigLN Data Base section:

1. Click on the **Create**... button in **ConFigLN**. The **Create Data Base** screen will appear. Notice that you are currently displaying the **Main** page.

ConFigLN
Version: 05.14.01-9
Read Set default Change font
Write
Main SIO Journal Language Norwegian Javelin Comments
Task communication
✓ NICcard on board
C Stand alone Register OCX C I am Host Local PC number 1
C LINC-NET on network (disables CLIENTs C I am Work Station HOST PC name Host
Concentrators on network I am Concentrator HOST base port U HOST base port U
Database
✓ Use shared drive TAHOST \FILES ✓ Share drive
BDE config Create
- Miscellaneous
Previous version not LINC-NET for Windows MicroLPM ELV in use ELV: Max one button
VicroLPM PLUS4 in use Vehoto Imaging ORION
Create Data Base
Main Default Values Panels Files Reorg
Start

5.4.3.1 Create Data Base: Default Values

1. Click on the **Default Values** tab to select the default values for:

Card Technology Door Access Time Card Table Format Daylight Savings Dates Entry/Exit Enforcement Options

NOTE: If settings are correct, go to Create Data Base: MicroLPMs for next step.

Use the explanations provided in the following section to help you determine your **Default Values** selections

ConFigLN	
Version: 05.14.01 Read Write	Set default Change font
Main SIO Journal Language Norwegian Ja Task communication VICcard on board Alternate messagi O Stand alone Register OCX O I al O LINC-NET on network (disables CLIENTs O I al O Concentrators on network	avelin Comments ing mode Local base port 0 = 2700 [2700-2739] m Host Local PC number 1 = m Work Station HOST PC name Host m Concentrator HOST base port 0 = 2700 [2700-2739]
Database ✓ Use shared drive T:\HOST \FILES	Share drive BDE config Create
Miscellaneous Previous version not LINC-NET for Windows MicroLPM PLUS4 in use CLIENTS in use (not allowed on Network) Operator Audit	 MicroLPM ELV in use Photo Imaging LINC-ID Alarm routing ElV: Max one button ORION Building hours report

Default Values Page

5.4.3.2 Create Data Base: Default Values: Card Technology

In this section, you must select the card reader technology that you will implement into your access control system. Select the appropriate type of card reader in the **Format window**. The available card technology formats are as follows:

ProTech	BR-350, BR-351, BR-370, BR-371
MagStripe	BR-450, BR-451, BR-452, BR-470, BR-471
Watermark	Any Watermark card with the 12-digit format
PCSC Wiegand	34-bit PCSC Wiegand format, All Sensor Proximity Readers
Indala	Indala Proximity format
12-Digit	No site code; Magnetic Stripe, barcode
Sensor 26	Standard Sensor 26-bit format. All Hughes ID Proximity Readers, BR-700, and many standard OLM readers.
Sensor 34	Standard Sensor 34-bit format
Special	Special format
PCSC 37	Special 37 bit HID Proximity format
Corp_1000	Special 35 bit HID Proximity format
Motorola 32	Special 32 bit Motorola Proximity format
Smartcard_40	HID 40-bit Smartcard format

A letter or additional reference description that describes the reader type can follow the card technology:

(I) Insert Reader

5.4.3.3 Create Data Base: Default Values: Door Lock Access Time

The **Door Access Time** is the length of time that the door lock is to be energized. The actual length of time is 1/2 second less than the number of seconds specified. For example, access time value of 1 denotes 1/2 second of access and time value of 5 denotes 4 1/2 seconds. Value of 1 is generally used for turnstiles.

You must select time values for both the Standard Access and Long Access

Standard Access is the normal door lock energize time. Select an access time from 1-998 seconds (2-998 seconds for elevator readers).

Long Access is the door-lock energize time for cardholders that require a longer access time than the standard access time (i.e. an individual with a disability). Select an access time from 2-999 seconds (3-999 seconds for elevator readers).

5.4.3.4 Create Data Base: Default Values: Card Table Format

Primary Expiration

Global - When selected, the Primary expiration date is used for all cards at all readers wired to the panel. It is irrelevant whether the readers are parking, building or department readers, as the secondary expiration date is not used.

If you select **Global**, the system uses the Primary expiration date for all types of readers. In selecting **Global**, the PIN feature is automatically selected (and visa versa).

If you select **Park-Only**, each cardholder has 2 card expiration dates. One date controls the access privilege for "parking" type readers and the other for all other types of readers. This unique function allows the system administrator to automatically deny access to cardholders at parking readers, yet allow them to pass through facility related readers.

PIN or Parking Reader expiration date (Parking Readers)

Park-Only - When selected, the secondary expiration date is used for all cards, but only at parking readers wired to the panel. The primary expiration date is then only used at department and building type readers.

Names for Cardholders Exist

PCSC panel products have the ability to store the cardholder names within the panel itself. Selecting this option will decrease the number of cardholders in a standard MicroLPM panel from 1016 to 600 cardholders (IQ and SIM board capacity are unaffected by downloading names). If you require names and more cardholders than 600, you will need to purchase a memory expansion kit for the MicroLPM panel.

12-Digit Card Number

Various card formats are available within the system. When using the **MagStripe** or **Watermark** format where a site code is not available, this option must be selected. For example, the MicroLPM (and I.Q. and SIM) series supports 5 - 12 digit ABA Track 2 format data.

5.4.3.5 Create Data Base: Default Values: Daylight Savings

The daylight savings cycle may be programmed into the panel.

- **Start**: Enter the date of the official start of Daylight Savings (In the U.S. it is normally the first Sunday of April).
- **Stop**: Enter the date of the official end of Daylight Savings (In the U.S it is normally the last Sunday of October).
 - **NOTE** If a MicroLPM panel does not roll into Daylight Savings (no Start date programmed), then it won't roll out of Daylight Savings (even if a Stop date was programmed). However, the IQ-7.9.12Q or SIM 7.9.15S series firmware allows their respective boards to rollout of Daylight Savings, even if they didn't roll into it.

5.4.3.6 Create Data Base: Default Values: Entry/Exit Enforcement

Each panel supports three separate entry/exit enforcement levels: Strict, Lenient, and Soft. Each enforcement level can be individually assigned to Parking, Department, or Building Type readers, but is enforced only when the Entry function and the corresponding Exit function readers are on the same panel.

NOTE Entry/Exit enforcement cannot be done (at any of the 3 levels) if the entry readers are on one panel and the corresponding exit readers are on a different panel.

These panel firmware versions require the door to be opened before changing the card status, repeated accesses will be granted (regardless of the anti-passback level of enforcement) if the door is not opened:

- Standard MicroLPM- Version 1.9.7 and above
- Plus 2 MicroLPM-
- M- Version 3.9.7 and above
- Plus 4 MicroLPM-
 - Version 7.9.7 and above

*All IQ and SIM panels require the door to be opened prior to updating the card status.

5.4.3.6.1 Create Data Base: Default Values: Entry/Exit Enforcement: Strict Entry/Exit

The cardholder's entry/exit status must be synchronized with the system, otherwise an entry/exit error will be announced. In other words, the cardholder must have the proper status (building, department, or parking) before he uses an entry/exit reader. The card status must be as follows:

If the cardholder's Building Status is IN, then Department Status can be IN or OUT. If the cardholder's Building Status is OUT, the Department Status must be OUT. If the cardholder's Department Status is IN, then Building Status must be IN.

If the cardholder's status does not comply with the reader's entry/exit definition, then the system will deny access. In other words, when a cardholder attempts to enter a Building IN reader, the cardholder's building and department status must be OUT.
5.4.3.6.2 Create Data Base: Default Values: Entry/Exit Enforcement: Lenient Entry/Exit

This level is the same as **Strict** except on the first use of the card, in which case the system will automatically reset the building and department status to proper synchronization. The cardholder's second attempt at the reader will then grant him access.

5.4.3.6.3 Create Data Base: Default Values: Entry/Exit Enforcement: Soft Entry/Exit

This level follows the same rules as **Strict** except that if an error transaction is recorded, all status levels are synchronized, and access is GRANTED.

5.4.3.7 Create Data Base: Panels

1 Click on the **Panels** tab. The **Panels** page shall appear. You will notice that the page appears slightly different than the Panels tab on a non-concentrator setup. A concentrator database will number panels starting from 1001 (as opposed to 1 on a non-concentrator system). The first digit denotes the concentrator number, in this case '1'.

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<u>l</u> ain	Default <u>V</u> alues	<u>P</u> anels	<u>F</u> iles	Reorg								
1001	IQ200	1011		1021			1031					
1002	IQ200	1012		1022			1032					
1003	IQ200	1013		1023			1033					
1004		1014		1024			1034					
1005		1015		1025			1035					
1006		1016		1026			1036					
1007		1017		1027			1037					
1008		1018		1028			1038					
1009		1019		1029			1039					
010		1020		1030			1040					
Panels:10011040 10411080 10811120 11211160 11611200 Select all Deselect all												
Conce	entrator: 1 2	3	4	5 6	7	8	9	10	11	12	13	1
anel	model IQ200		•	Sca <u>n</u>	1							

Concentrator Panel Selection Field

- 2. On the **Panels** page, select panel(s) for which data files will be created by selecting the appropriate type from the **Panel model** window.
- 3. To select panels individually, select the panel model in the radial button group box, then select the panel number.

5.4.3.8 Create Database: Main

When you finish making your selections

1. On the **Main** page, click on the **Start** button to begin creating the selected files.

Create LnwFile	Create Data Base LnwFiles=T:\HOST\FILES											
<u>M</u> ain	Default <u>V</u> alues	<u>P</u> anels	<u>F</u> iles	<u>R</u> eorg								
		Start										

2. A pop-up window will appear, asking you if you are sure that you want to create/rebuild the database. Press the **Yes** button.

Warning			×
1	Create/re	build databas	ie?
	Yes	No	

- 3. When complete click on the **Exit** button (located in the upper right hand corner) to exit the create database module.
- 4. A pop-up window will appear confirming your decision to exit **Create Data Base**. Click "**Yes**."
- 5. You will then return to the **ConfigLN** screen. Click on the **Exit** button located in the upper right side of the screen to return to the desktop.

Warning	×
Exit o	CreateDB?
Yes	No

NOTE: Installation is Complete. To start the LiNC-NET program, go to **Start\Program Files\LVn5_14_xx\LiNC_NET.**

6.0 Appendix – Setting Regional Anti-passback

Regional Anti-Passback

LiNC-NET 5.14 now allows for Regional Anti-Passback capability (ie. anti-passback limitations on using readers on more than a single panel). An adminstrator can now decide on the range of anti-passback control for as many as 5 groups of panels in your first 200 boards within your system.

6.1 To set up Regional Anti-Passback

- 1. After setting the parameters for your panels in the System-side of LiNC-NET, press the Halt button to exit the program.
- 2. Input your user name and password to close LiNC-NET.
- 3. Open ConfigLN.
- 4. Select the SIO tab from the Main ConfigLN screen.

🔄 ConFigLN
Version: 05.14.01
Read Set default Change font
Write
Mair SIO Journal Language Norwegian Javelin Comments
Task communication
IVICcard on board ☐ Alternate messaging mode Local base port 0 ± 0=2700 (2700-2739)
C Stand alone Register OCX C I am Host Remote base port
C LINC-NET on network (disables CLIENTs C I am Work Station
C Concentrators on network C Lam Concentrator
Database
Use shared drive
Find folder C:\Program Files\PCSC\LiNC-NET version 5.14.1tfiles BDE config Create
Miscellaneous
Previous version not LINC-NET for Windows Version MicroLPM ELV in use
MicroLPM PLUS4 in use V Photo Imaging ORION
CLIENTS in use (not allowed on Network)
Vperator Audit

5. Press the Regional Anti-Passback button.

🛃 ConFigLN	<u>_ ×</u>
Version: 05.14.01	
Read Set default Change for	unt
<u></u>	
Main SIO Journal Language Norwegian Javelin Comments	
Panel communication	
4000 Offline poll rate (MS) Regional Anti-passback	
1000 Idle poli rate (MS)	
24000 Card erace time (MS)	
150 Maximum number of Journal records every 30 seconds	
Oten devel yearly delter (MO)	
lo standard reply delta (MS)	

Regional Anti-passback PANELs																		
•	#1	Γ	#21	Γ	#41	Π	#61	Γ	#81	Г	#101	Г	#121 🗖	#141	П	#161		#181
7	#2	Г	#22	Γ	#42	Γ	#62	Γ	#82	Г	#102	Γ	#122 🗖	#142		#162		#182
7	#3	Г	#23	Γ	#43	Γ	#63	Γ	#83	Г	#103	Γ	#123 🗖	#143		#163		#183
V	#4	Г	#24	Г	#44	Γ	#64	Γ	#84	Г	#104	Γ	#124	#144		#164		#184
V	#5	Г	#25	Г	#45	Γ	#65	Γ	#85	Г	#105	Γ	#125	#145		#165		#185
V	#6	Г	#26	Γ	#46	Γ	#66	Γ	#86	Г	#106	Γ	#126	#146	Γ	#166	Γ	#186
Γ		Г	#27	Γ	#47	Γ	#67	Γ	#87	Г	#107	Γ	#127	#147	Г	#167	Γ	#187
Г		Г	#28	Г	#48	Γ	#68	Γ	#88	Г	#108	Γ	#128	#148	Г	#168	Γ	#188
Г		Γ	#29	Γ	#49		#69	Γ	#89	Г	#109	Γ	#129	#149	Γ	#169	Γ	#189
Г		Г	#30	Г		Γ	#70	Г	#90	Г	#110	Γ	#130	#150	Г	#170	Γ	#190
Г		Γ	#31	Г			#71	Γ	#91	Г	#111	Γ	#131	#151		#171		#191
Г		Γ	#32	Г			#72	Γ	#92	Γ	#112	Γ	#132	#152		#172		#192
Γ	#13	Γ	#33	Г			#73		#93	Γ	#113	Γ	#133	#153	Γ	#173	Γ	#193
Γ	#14	Γ	#34	Г			#74	Γ	#94	Γ	#114	Γ	#134	#154	Γ	#174		#194
Γ	#15	Γ	#35	Γ	#55		#75	Γ	#95	Γ	#115	Γ	#135	#155	Γ	#175		#195
	#16	Γ	#36		#56		#76		#96	Γ	#116	Γ	#136	#156	Γ	#176	Γ	#196
Γ	#17	Γ	#37	Γ	#57		#77	Γ	#97	Γ	#117	Γ	#137	#157	Π	#177		#197
Γ	#18	Γ	#38		#58		#78		#98	Γ	#118	Γ	#138	#158	Γ	#178		#198
Γ	#19	Γ	#39	Γ	#59	Γ	#79	Γ	#99	Г	#119	Γ	#139 🗖	#159		#179		#199
	#20	Γ	#40	Γ	#60		#80	Γ	#100	Γ	#120	Γ	#140	#160		#180		#200
F	Region • 1	al gi O :	roup 2 C	3 (3 4	0 5	5		🗙 CI	ear		~	/ <u>W</u> rite		j	<u>C</u> lose		

This will open the Regional Anti-Passback PANELs window.

In the Regional Anti-Passback PANELs window, select the **Regional Group** that you wish to set parameters (Group 1-5).

- 6. Select the panels that will function together with Regional Anti-passback.
- 7. Press the Write button to save the selection.
- 8. If you wish, you may choose another **Regional Group** for another group of panels.

NOTE: You may only select a panel for one Regional Group with a Max of 6 panels for any group.

9. To exit the Regional Anti-Passback PANELs window, press the **Close** button.

6.2 To Remove a Anti-Passback Regional Group

- 1. Open the Regional Anti-Passback PANELs window.
- 2. Select the Regional Group that you wish to remove from the Regional group selection box.
- 3. Press the **Clear** button.
- 4. Press the **Close** button to exit.

End of Manual October 2003