LiNC-Ez[™]

Programming Manual 33-10038-001 REV: G-pre

FOR **IAM** FIRMWARE VERSION GREATER THAN 4.00.00 FOR **IQX** FIRMWARE VERSION GREATER THAN 2.00.00 FOR **NRX** FIRMWARE VERSION GREATER THAN 3.00.00



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0.1 Release Notes for LincEz iAM v2.1.48

0.1.1 IMPORTANT COMPATIBLITY OPERATION:

LincEZ iAM Software is compatible with **iAM v4.00.00** and newer versions. All PANELS or IQX reference in this Installation Manual and on LincEZ iAM screen operations applies to all iAM Controllers; unless otherwise indicated.

WARNING OLD LINC-EZ VERSIONS ARE NOT COMPATIBLE WITH NEW IQX FIRMWARE. UPGRADE LINC-EZ SOFTWARE WHEN A NEW IQX OR NRX IS INSTALLED.

WARNING LINC-EZ II IS NOT COMPATIBLE WITH IQX VERSIONS LESS THAN 2.00.00. YOU MUST UPGRADE OLD IQX FIRMWARE WHEN USING LINC-EZ II. FOLLOW IQX DOWNLOAD INSTRUCTION LOCATED IN ALL ORIGINAL LINC-EZ CD.

0.1.2 LiNC-Ez II Release Notes:

IQX Status screen shows the Door Status	The IQX Status screen will indicate if the door is locked or unlocked. Particularly useful when AutoUnlock by Time Period is used.
Transaction Monitor can sort data in ascending or descending order.	Highlight the column and right click. Select Ascending or Descending.
Transaction Monitor will export to .XLS file.	Highlight a column and right click mouse. Select Export option.
In Download , panel firmware can be Upgraded to IQX or NRX	This is to upgrade firmware application only, NOT Parameter DATA.
Download can broadcast to all IQX and/or NRX panels (concurrently)	After completing Parameter input, Broadcast will update all panel application data.
Configure Doors now includes Counter Properties	This is an Area Access Counter per panel (not global). Used for garage or parking lots.
For NRX ONLY- Configure Doors has Configure Aux I/O	This controls the four I/O on the NRX. Inputs are ORed to Output.
Serial Communication has communication password.	This is to insure attaching to RS485 line, access is not granted without proper password. Do not lose password, cannot be retrieved. Default password is LiNC-Ez.

Release NOTE from LincEZ v2.1.48 to LincEZ v2.2.34

IAM control features were added to LincEZ Menu and Card Manager.	The Zone, ZoneGroup, and Central Station Configuration were added to Menu. Alarm Control was added to each card in Card Manager
IOX control features were added to LincEZ Menu.	Input Configuration, Status and Calibration were added to menu.
Single Client feature was added to Company Info	Complete Remote Programming and reporting communication can be establish via Client.
Remote access via Terminal Server to RS485.	Communication via RS485 Terminal Server for complete remote TCP/IP to Panel RS485 Loop.
Four Auto Unlock Time Periods added for flexible time period unlock.	Allows different weekly day unlock schedule.
Repaired International Date Format operation.	Day-Month-Year date format operate on all date screens.
Broadcast will not operate on Panel firmware x.00.77 or earlier.	Broadcast works only on iAM v4.01.14, NRX v3.00.80, IQX v2.00.80 and/or IOX v5.00.08; or newer.
Only single iAM will communicate via RS232 LapLink Cable.	Any combination of iAM, NRX, IQX or IOX requires RS485 communication.

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1.0 Introduction

Welcome to the LiNC-Ez[™] Installation and User manual. The LiNC-Ez[™] access control and alarm system is the best and most cost-effective system on the market for the small to mid-size facilities. This manual will describe the best method for loading LiNC-Ez onto your system and configuring the access control and security measures capabilities. The manual is designed in the the following order:

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It is assumed that prior to loading LiNC-Ez, the physical layout of the IQX, NRX and iAM, readers and assorted I/O's of the LiNC-Ez system have been determined.

1.1 PC Requirements - LiNC-Ez™ Software

To install LiNC-Ez[™] for Windows- 2000/XP, the following requirements must be met:

- Windows 2000 or Windows XP must be installed on the host computer.
- User must have knowledge of mouse and keyboard use in the Windows 2000/XP environment.

1.2 Hardware Requirements

Compare your computer hardware features to the chart below, which lists the requirements for proper operation of LiNC-EzTM. If you have any questions regarding your computer configuration, call PCSC Application Engineering at (310) 638-0400, ext. 1694.

Hardware Item	Minimum Requirement
CPU	IBM PC or equivalent: Pentium (minimum 800 MHz for Host), Windows 2000 or Windows XP.
RAM	256 MB
Hard Drive	8 GB
Diskette Drive	3.5 in., 1.44 MB
CD RW Drive	24X CD RW drive
Monitor	SVGA, 640 x 480, 16 color
Keyboard	AT type
Mouse,	WINDOWS compatible Bus or PS2 Mouse
Parallel Port	LPT1
Serial Port	One DB9 COM RS-232 dedicated for LiNC-Ez TM
U.P.S.	Uninterruptible Power Supply 420 VA for PC and monitor

2.0 Loading LiNC-Ez[™]

Close all programs, including those which default to COM1 (i.e. - PDA communication device, Palm Pilot Link, serial mouse, etc.). Also, disable any virus protection software until installation is complete.

Install the LINC-Ez[™] program CD into the CD-RW drive. The InstallShield Wizard should load automatically once.

NOTE: If the CD-ROM doesn't automatically launch, use the following steps to launch the **InstallShield Wizard**.

- 1. Enter **Windows** to find out what is the letter name of the CD-ROM drive.
- 2. Click on the Start Menu and then select Run.
- 3. Type in the Letter of the CD-ROM drive followed by "**:\setup**." Click **OK**. This will start the loading process.

Run	?×
5	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	E:\setup
	OK Cancel Browse

The **InstallShield Wizard** takes over the loading process and will guide you through the rest of the process.

1. Enter your Name and Company Name and click on Next.

InstallShield Wizard		×
Customer Information Please enter your information.		
Please enter your name and the name of the c	ompany for whom you work.	
User Name: <user name=""></user>		
Company Name:		
Company Name>		
	< Back Next >	Cancel

- Check the appropriate language you wish to operate LiNC-EzTM.
- Install will automatically load the LiNC-Ez[™] into the Program Files folder. Redirect if necessary.
- 4. Click **Finish** to complete the process and restart your computer.



3.0 LiNC-Ez[™] Layout and Features

Once you have finished the installation process, a LiNC-Ez[™] shortcut will be placed on your desktop.

Double-click on the LiNC-Ez[™] shortcut. LiNC-Ez[™] will open to it's main page.

NOTE: Section 3.0 is devoted to describing the basic layout of the LiNC-Ez[™] program and its different sub-menus. To continue with the programming of LiNC-Ez[™], please proceed to Section 4.0.



3.1 LiNC-Ez[™] Menus

3.1.1 File Menu Selection



- Print Prints contents of Transaction Monitor, Reports, Card Manager & Holiday List to select printer
- Print <u>Setup</u> Allows operator to select a printer on the system and control the properties of the printer
- **Exit** Causes LiNC-Ez to cease operating. By doing this you will cause the controllers to operate in a standalone mode until the program is restarted.

3.1.2 View Menu Selection



- <u>History Transactions</u> Allows the operator to view all transactions as they are received from the panels.
- Show Panel Status View status of all panels & Door Lock Status on the system.
- Display <u>Reports</u> Predefined reports available to the operator:
 - Card Holder Report
 - Holiday List
 - Holiday Time Period
 - Standard Time Period
 - History Log

3.1.3 Database Menu Selection



3.1.4 Panel Menu Selection



- <u>Card Manager</u> Add/Delete/Change cards in the database [1-3,000 Card Capacity]
- <u>A</u>uthorization Groups Displays all authorization groups and allow operator to View/Change/ -Add/Delete groups.[1-255 Authorization Group]
- <u>Standard Time Periods</u> View/Change/Add standard time periods. [1-32 Time Periods]
- <u>Holiday Time Periods</u> View/Change/Add holiday time periods [1-32 Holiday Time Period]
- Holiday List Displays the entered holiday list [Up to 64 Holidays]
- Site <u>C</u>odes Ability to View/Change site codes [1-16 Site Codes]
- <u>Organize Database</u> Optimizes and repairs database
- **Export Data** Allows an administrator to export the current LiNC-Ez parameters
- Import Data Allows an administrator to import the current LiNC-Ez parameters
 - Download Data to the IQ Initiate a download of parameters to the panels
 - <u>Unlock/Lock Door(s)</u> Enables operator to unlock or lock a specific door.
 - <u>Turn On/Off Alarm(s)</u> Enables/ disables alarms
 - <u>Calibrate Sensors</u> Calibrates all supervised circuits.
 - Panel Communications ability to change and set communication via serial RS-232 (COM), modem (dial-up phone line) or TCP/IP (LAN or Ethernet).

3.1.5 HOST Menu Selection



3.1.6 Window Menu Selection



- Configure <u>W</u>izard Sets up company information, Door Names, Door Assignments and Daylight Savings times
- Configure Doors View/change Door Properties, Access Parameters and Readers.
- <u>Turn Host Alarm Off</u> Toggles the alarm On/Off
- Test Host Alarm Tests the alarm on the system
- <u>Show/Hide Poller</u> Turns poller information in LiNC-Ez task bar on/off.
 - Close All <u>W</u>indows Closes all windows previously opened.
 - <u>Reset Default Sizes</u> Restores all windows to default sizes.
 - <u>C</u>ascade Arranges selected windows in a cascaded orientation.
 - Tile <u>Horizontally</u> Arranges selected windows one above the other.
 - Tile <u>Vertically</u> Sets up selected windows side by side.

3.1.7 iAM Menu Selection



- Zone Configuration sets Alarm Zones parameters, Zone Names, Supervised Zones, Latched Alarm points, Bypass zone point, Common Area Armed Override and Zone Delay period.
- Zone Group Configuration creates definition of each Zone Group.
- **Central Station Configuration** Sets the parameters for contacting the Central Station.
- Calibrate or Bypass Alarm Zones Allows the user the ability to calibrate or bypass individual alarm zones.

3.1.8 HELP Menu Selection



- Manual Opens a pdf version of this manual
- About Provides information about Author and Version of the program.

3.2 LiNC-Ez[™] Toolbar



4.0 LiNC-Ez[™] Programming



4.1 Configuration Wizard

Once the initial loading of LiNC-Ez[™] is complete, the LiNC-Ez Configuration Wizard will determine the communication method, basic operating setup and will download the default database and ready to run with the default data. And reference the reader to where to jump to initiate a full data download.

4.1.1 Company Information

File lyew Database Panel Host Window TAM TOX Help Image: State in the state in	🛅 LiNC-Ez: C:\Pro	pgram Files\LiNC-Ez iAM\NewClient.me	lb	
Image: Second Secon		base <u>P</u> anel <u>H</u> ost <u>W</u> indow IAM IOX 는	lelp	
View Company Info Door Names Door Assignments Daylight Savings Image: Panels Panels Panels Panels Panels Ponels Ponels Ponels Ponels Procesco 3541 Challenger Street Torrance, CA 30503 (310) 633 Address Your Phone United States QK Qancel Apply		🥌 🎍 🚱 🚨 🔗 .	~	
Company Info Door Names Door Assignments Deglight Savings Panels Name: New Client Panels Company: Open Client Address: Clear Ponce: Pagional Setting Your Address Clear Phone: Pagional Setting Your Phone United States QK Qancel	View [LiNC-Ez Configuration Wizard		
Transactions Panels Panels Peports Name: Your Name: Ompany: Your Company Address: Your Address Phone: Torrance, C. 40 9503 (310) 638-0400 www.linc-ez.com ØK Qancel		Company Info	Door Names Door Assignments Daylight Savings	
Transactions Panels Panels Peports PCSSC 3541 Challenger Street Torrance, CA 95033 (310) 638-0400 www.linc-ez.com QK Qancel Apply				
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Reports Address: Qlear PCSSC 3541 Challenger Street Password Torrance, CA 30503 Phone: Regional Setting Vour Phone United States Image: Complexity of the set			Your Company	
Your Address Clear PCSSC 3541 Challenger Street Torrance, CA 30503 Phone: Phone: Regional Setting Your Phone United States	Reports	and the second second	Address:	
Prose Pagional Setting 1010 633 40400 Your Phone Your Phone United States			Your Address Clear	
Beasword 3541 Challenger Street Torrance, CA 90503 (310) 638-0400 www.linc-ez.com Your Phone United States		PCSC		
Optimized Contraction Phone: Regional Setting Www.linc-ez.com Your Phone United States Image: Contraction of the set of		3541 Challenger Street	Password	
QK Qancel Apply		Torrance, CA 90503 (310) 638-0400	Phone: Regional Setting	
QK Qancel Apply		www.linc-ez.com	Your Phone United States 💌	
QK Qancel Apply			· _	
OK Cancel Apply				
		<u>o</u> k	Cancel Apply	
DataBase	DataBase			
Panel	Panel			
Host	Host			
0 Panels Online		0 Panels Online		

- 1. Enter: Your Name Company Name Address Phone number
- 2. Select Apply or OK. Select Clear to begin over again.
- 3. The **Regional Setting** will adjust Holiday List for LiNC-Ez^{TM.}
- 4. **Password** will protect from unauthorized access to LiNC-Ez[™] Software. Press **Password**, in the password screen type in your password, twice.
- 5. The next time LiNC-Ez[™] is launched, the password will be required. To remove password: follow the same procedure to Add, but enter a blank field.

Note: Do not forget the password. You can NOT retrieve password. You must reload LiNC-Ez if the password is lost.

4.1.2 New/Open Client Feature

Enter a New Clie	nt File Name for th	is Company				?×
Look in	i 🗀 Linc-Ez iAM		•	+ 🗈 💣	· 📰 -	
My Recent Documents Desktop My Documents My Documents	Graphics Shared Sounds Default.Mdb MainDb.Mdb NewClient.mdb					
My Network Places	File name: Files of type:	NewCLient.mdb Access Database Files (*.mdb Dpen as read-only)	• •		Open Cancel

- 1. To create New Client, select New Client button at Configuration Wizard.
- Type the name of the New Client and click Open.
 To open a client, select Open Client button at Configuration Wizard.
 Select the client and click Open.
- **NOTE**: To change configurations of newly created client, close and reopen LiNC-EzTM. This will default the settings of the software and will be ready to be changed. It is mandatory to close and reopen LiNC-EzTM whenever switching between clients, for changes to be made to the appropriate client.

4.1.3 Door Names

1. Enter the number of panels connected together on this system.

IMPORTANT This indicates how many panels to look for.

- 2. Add or Delete door names as they will be used at this site.
- 3. Select Apply

This will create the list of selections that will be used on the next screen.

LiNC-Ez Configuration Wi	zard	v	~
Company Info	Door Names	Door Assignments	Daylight Savings
Total # of IQX Accounting D Back Door Engineering Front Door Lobby Machine Roor Pool House Room 101 Room 103 Room 103 Room 105 Shipping	Controllers to be installed? Available Doors oor		Add Delete
·		ancel Apply	

4.1.4 Door Assignments

- 1. For each door on the system, select the name of the door by clicking the down pointer and highlighting the name of the door assigned to each panel.
- 2. Select **Apply** or **OK** to store the names

LiNC-Ez Configuration Wi	zard		
Company Info	Door Names	Door Assignments	Daylight Savings
IQX# Door	A Assignment D	oor B Assignment	
1 Room 101	 Pool House 	•	
	<u>0</u> K <u>C</u> an	cel <u>Apply</u>	

4.1.5 Daylight Savings

LiNC-Ez - [LiNC-Ez Configuration Wizard	i]										
🔀 <u>F</u> ile <u>V</u> iew	<u>D</u> atabase <u>P</u> anel <u>H</u> ost <u>W</u> indow I	AM <u>H</u> elp										_ 8 ×
	ا الله 🕹 🔹	? ↓										
View	Company Info	Do	or Names		Ŷ		Door	Assig	nments	Day	light Savings	
DataBase												
Panel												
Host		г		0) ayligł	nt Sav	rings T	ime	Year	Start	End	
87				2 00	2004 ctobe	r			2004 2005 Double	4/4/2004 e-click to pick o 4/3/2005	10/31/2004	
2			Sun Mon	Tue \	Wed	Thu	Fri	Sat	2006	4/2/2006	10/29/2006	
Config. Wizard							1	2	2007	4/1/2007	10/28/2007	
			3 4	5	6	7	8	9	2008	4/6/2008	10/26/2008	
			10 11	12	13	14	15	16	2009	4/5/2009	10/25/2009	
Config. Doors			17 18	19	20	21	22	23	2010	4/3/2011	10/30/2011	
Ø			24 25	26	27	28	29	30		4-1		
Host Alarm Off	the second s		31									
Host Alaini Oli							_	No D	uliaht Couinas			
								NOD	aylığı kı Savings			
Test Host Alarm		-1	_				1				1	
	<u>O</u> K			<u>C</u>	ance	el 👘				Apply		
							INCOMPACT.	Color Color				
	Panels Online											

The daylight savings times have been factory set until 2012. To correct or change any of the default dates you can change the **Start** or **End** dates in the **Daylight Savings Time** field.

Setting the **No Daylight Savings** option will cause the program to ignore **Daylight Savings**.



4.2 Door Configuration



4.2.1 Door Properties

This set of screens sets up the operating parameters for all of the access controlled doors. The factory default set up for doors will show all items selected <u>except</u> **Contact Supervised** and **Request to Exit Supervised**.

Set up the Door Properties as follows:

Contact Used	Check this box if door contacts are to be monitored to audit door open or closed status.
Contact Supervised	Check if contact circuit is monitored for tampering using 4 state supervision.
Request to Exit Used	Check box if REX (Request to Exit) has been installed and is to be used to allow for push button opening of a controlled door.
Request to Exit Supervised	Check box if the REX circuit is monitored for tampering using 4 state supervision.
Valid Card Resets Door Force	d Open Alarm Check this box if you want any local alarm that is sounded to be turned off by the first valid card that is read after the alarm is triggered.
Enable Door Left Open Alarm	Shutoff Time Select this box to set up the amount of time that the alarm will be bypassed before sounding.

Alarm Shutoff Time	Used to set the amount of time to shunt the alarm when the Enable Alarm Shutoff Time box has been selected.
Factory Defaults	Selecting this will cause the program default values to be entered into the door configurations.

4.2.2 Access Parameters

The access parameters set up the length of time doors are unlocked and allowed to be open before any action is taken to report alarms.

Linc-Ez - [C	Configure Door	's]								
Eile View [Database Panel	Host Window IAN	1 <u>H</u> elp					_ 8 ×		
	<i>🗐</i> è. (la 🖉	- (
View	Configure Door									
DataBase	Door Proper	ties Access P	arameters	Readers	Counter	Properties N	IRX AUX 1/0	Factory		
Panel	Unlo	ck Time		5 🔹	Auto Unio	ck Time Period		Defaults		
Host	Ope	n Time		10 +	NEVER	•				
X	Long Unlock Time			10 +	🗖 Card U	Inlock				
Config. Wizard	Long) Open Time		20 ≑	🗖 Card L	ock				
Config. Doors	Number	Description	Panel #	Unlock Time	Open Time	Long Unlock Time	Long Open Time			
Ø	2 Bac	ck Door	1	5	10	10	20			
Host Alarm Off										
€ ⊪										
Test Host Alarm	•						Þ			
		<u>O</u> K		<u>C</u> ancel		Apply				
	Panels Online									

Set up the Access Parameters as follows:

Unlock Time	The amount of time in seconds that the door lock is energized (door unlocked).					
Open Time	The amount of time that the door can remain open prior toan alarm sounding if an alarm has been selected for this door.					
Long Unlock Time	The amount of time specified for certain cardholders needing extra time to open a door.					
Long Open Time	The amount of extended time that the door will remain open until an alarm is triggered in those cases where additional tim is required to get through the door. Maximum setting is 255 seconds.					
Auto Unlock Time Period	The duration which a door will automatically unlock. Select the time period by clicking on the down arrow and highlighting the desired time period.					
Card Unlock	Auto Unlock Time Period starts when first Authorized Card is presented during the Auto Unlock Period.					
Card Lock	Locks door during AutoUnlock Period when Authorize Card is presented.					
Note: On a Holiday Auto Unlock n	time periods, if Auto Unlock Time Period is programmed, nust always be Authorized with a valid card.					

4.2.3 Readers

This screen is used to configure each of the readers. LiNC-Ez[™] is compatible with a wide range of proximity readers (such as the PR-732 included in the LiNC-Ez[™] Installation kit), proximity-keypad readers, and magstripe readers.

		Configure Doo	r		
Door Properties	Access Parameters	Readers	Counter Properties	Configure Aux 1/0	Facto
Reader A			F Reader B		Defau
Config]		Config	1	
				_	
ader Configura	ition			J.	
Reader Configura Reader Descri Door # 1 Reader. Assignment F Entry F	tion ption A Exit	Reader Type 26, 37, 40 Proximity 40 bit Proximity with PI 26, 37, 40 Proximity 26, 37, 40 Proximity with Mag Stripe with PIN Pa 12 Digit Mag Stripe with 12 Digit Mag Stripe with Custom3	An N Pad ith PIN Pad ader th PIN Pad	Li-Passback Time → Minutes → (0 · 255) Pad Disable Time Period	

Select the reader by checking the box next to the reader name and press **Config** button to bring up the **Reader Configuration** screen.

4.2.3.1 Entry/Exit on a Single Door

LiNC-Ez[™] has the ability for entry/exit capability on a single door. By installing readers on either or both sides of an access point, LiNC-Ez[™] can be set up to monitor entry and exit from a single room.

In the **Reader Config** screen, in the **Assignment** box, a reader can be set to monitor either **Entry** or **Exit.** In an access point with two readers, **Reader A** may be set for **Entry** and **Reader B** set for **Exit** (or vice versa).

4.2.3.2 Reader Configuration Screen

Linc-Ez - [[Configure Doors]
Eile View	Database Panel Host Window IAM Help
View	Configure Door
DataBase	Door Properties Access Parameters Readers Counter Properties NRX AUX 1/0 Factory
Panel Host	
X	Config Config
Config. Wizard	Reader A Reader B
Config. Doors	Number Description Panel# Unlock Time Open Time Long Unlock Time Long Open Time
Ø	2 Back Door 1 5 10 10 20
Host Alarm Off	P Reader Configuration
Cest Host Alarm	Reader Description Reader Type Anti-Passback Time Door # 1 Reader A 26, 37, 40 Proximity 0 Minutes (0 - 255)
	Assignment PIN Pad Disable Time Period
	QK <u>Cancel</u> Apply
	Panels Online

Reader Description- In this screen you will see the Door # and name assigned to that door.

Reader Type Select the down arrow and highlight the reader type being used with this door position on this panel. (This area has been expanded for more reader types.)

NOTE If card is selected with Keypad, all cards will default to 0000 as the pin number.

Anti-Passback Time Select the amount of time to pass before a card can be used again at this reader. Select **Apply** or **OK** to activate and save your selections.

NOTE	This is to prevent someone from passing his or her card back to another user
	to allow entry into the door or gate.

Entry/Exit Assignment allows access to area controlled by a single panel (two doors) only.

Important Inside the Reader Configuration window, the proper door must be highlighted when antipassback is required. This will establish the highlighted door as Entry; the second door of this panel will automatically be the Exit.

The operation of Entry/Exit is when a card is authorized to the Entry reader then it must be authorized to the Exit before entry is granted again.

Note Entry/Exit is per one panel only. It is not global within a system of panels. The EXIT will always be granted.

4.2.4 Counter Properties

Linc-Ez - [0	Configure Doors]
Eile View	Database Panel Host Window IAM Help
	🖅 💩 🚱 💻 🤗 🖕
View	Configure Door
DataBase	Door Properties Access Parameters Readers Counter Properties NRX AUX I/0
Panel	Increment: Decrement: Remove from Uurpurs: Used by Remove from Defaults
Host	Reader A T Door Logic: Alarm A: T T Reader B T Alarm B: T T
V	Rex A: Alarm Counter Low: 0 + High: 0 +
Config. Wizard	Contact A: C C Counter Value: Max: 0
<u> </u>	Contact B: C Max Disables: C Contact B
Config. Doors	IQX # Door A Description Door B Description
Ø	T PION DOUL Back DOUL
Host Alarm Off	
€ ≣	
Test Host Alarm	
	QK Qancel Apply
	Panels Online

All **Readers**, **Rex**, and door **Contacts** can be applied to **Increment** or **Decrement** area inputs.

The **High** Count will turn on **Local Alarm**. Maximum count will DISABLE door relays.

NOTE: Area Counter is controlled by only **one** panel. Each area is controlled one panel, **not** multiple panels.

4.2.5 Configure Aux I/O [for NRX Only]

Linc-Ez - [Configure Doors]	
Eile View	Database Panel Host Window IAM Help	Select Inputs, which are
	🗐 🗟 🚱 💻 🤗 🖕	Supervised
View	Configure Door	
DataBase	Door Properties Access Parameters Readers Counter Properties NRX AUX 1/0	Check which Inputs are
	INPUTS: Check which Inputs are Supervised Factory Defaults	AND-ed together to turn
Panel	Input 1 Input 2 Input 3 Input 4	ON Output.
Host	OUTPUTS: Check which Inputs are Ored together to give each Output value	••••••••••
x /	Output 1 =	
X	Output 2 = Input 1 Or Input 2 Or Input 3 Or Input 4	
Config. Wizard	Output 3 = Input 1 Or Input 2 Or Input 3 Or Input 4	
	Output 4 = Input 1 Or Input 2 Or Input 3 Or Input 4	Select NRX only
Config. Doors	IQX # Door A Description Door B Description	-
~	1 1 Front Door Back Door	
V 0		
Host Alarm Off		
€ ⊫		
Test Host Alarm		
	Panels Online	

4.3 Standard Time Periods



Linc-Ez - [Standa	rd Time Periods]											
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	٢	è. 🚱 🔝	? 🗸	-									
View	1.1	2 3 4 5 6	7 8	9 10	11 12	luth.	2 3	4 5		7 8	9 1	0 11	12
DataBase													
æ		Standard Time	Start	End	Mon	Tue	Wed	Thu	Fri	Sat	Sun	All	
	1	NEVER	12:00 AM	12:00 AM									
Card Manager	2	ALWAYS	12:00 AM	11:59 PM	1	Ľ	Ľ	Ľ	Ľ	Ľ	Ľ		
-	3	Normal Work Week	07:45 AM	05:30 PM									
4	4	Early Work Week	06:45 AM	04:30 PM									
Auth Groups	5	Long Work Week	07:45 AM	05:30 PM									
Jan L	6	Long Day and Week	06:00 AM	09:00 PM			V						
	7	Cleaning Crew	07:45 AM	05:30 PM			V						
	8	All Weekend	12:00 AM	11:59 PM						M			
Standard Times	9	Normal Weekend	08:00 AM	05:00 PM						M	M		
M O	10	Long Weekend	06:00 AM	06:00 PM						M	M		
>	11	Custom11	06:00 AM	09:00 PM						×			
Holiday Times	12	Custom12	09:00 AM	05:00 PM	1	V	×	×	V				
*	13	Custom13	09:00 AM	05:00 PM	M		×	M	M				
	14	Custom14	09:00 AM	05:00 PM	V	×	×	×	V				
Holiday Li	15	Custom15	09:00 AM	05:00 PM	1	V	×	×	V				-
Panel			OK		Canc	el		VlaaA					
Host								11-2					
	Par	nels Online											

This screen brings up the factory default time periods.

To change the times within the periods, highlight the Standard Time Period you want to change and:

1. Left-click on the red bar at the top of the screen at either end and adjust its length to your requirements. This will automatically update the Start and End columns as you change the size of the red bar.

OR

2. Double click a Start/End and use the up/down arrows in the box to change the start and end times.

3. Select **Apply** or **OK** to save your data.

NOTE NEVER and **ALWAYS** are factory defaults and cannot be altered.

4.4 Holiday Time Periods



Holiday Time Periods are the controlling times for the corresponding Standard Time Periods and are active on Holidays only.

Linc-Ez - [l	Holida	y Time Periods]											
Eile View	<u>D</u> atabas	se <u>P</u> anel <u>H</u> ost <u>W</u> indow I	AM <u>H</u> elp										a ×
View	1	2 3 4 5 6	7 8	9 10	11 12	<u>1</u>	2 3		5 6	7 8	9 1	0 11	12
DataBase													
<i>41</i> 00		Holiday Time	Start	End	Mon	Tue	Wed	Thu	Fri	Sat	Sun	All	
	1	NEVER	12:00 AM	12:00 AM									
Card Manager	2	ALWAYS	12:00 AM	11:59 PM	V	Ľ	Ľ	Ľ	Ľ	Ľ	Ľ		
Cara managor	3	Normal Work Week	07:45 AM	05:30 PM									
<u>è</u>	4	Early Work Week	06:45 AM	04:30 PM									
Auth Course	5	Long Work Week	07:45 AM	05:30 PM									
Autn. Groups	6	Long Day and Week	06:00 AM	09:00 PM									
	7	Cleaning Crew	07:45 AM	05:30 PM									
¥	8	All Weekend	12:00 AM	11:59 PM									
Standard Times	9	Normal Weekend	08:00 AM	05:00 PM									
20	10	Long Weekend	06:00 AM	06:00 PM									
	11	Custom11	06:00 AM	09:00 PM									
Holiday Times	12	Custom12	09:00 AM	05:00 PM									
*	13	Custom13	09:00 AM	05:00 PM								-	
	14	Custom14	09:00 AM	05:00 PM								_	
Holiday Li🚬	15	Custom15	09:00 AM	05:00 PM									-
Panel			OK		Conor	a [Apple	1				
Host				J	Cance			мрру					
	Pa	nels Online											

All Holiday Periods are off until you program them for Holiday use (except ALWAYS) Normal Work Week will not have access during Holiday unless Holiday Schedule gives access.

NOTE Holiday time periods start at 12 midnight.

Use the same steps to change the **Holiday Periods** as you did above in the **Standard Time Periods**.

NOTE NEVER and **ALWAYS** are factory defaults and cannot be altered.

Select Apply or OK to save your data.

4.5 Holiday List

Linc-Ez - [🗈 LINC-Ez - [Holiday List]										
🚰 Eile 🛛 Eile 🛛 Eile 🖉	Database	e <u>P</u> ani	el <u>H</u> os	st <u>W</u> in	dow 1	IAM H	<u>i</u> elp				_ & ×
	٢	8	Ø	•		?	-				
View							🗆 Vi	ew Current Ye	ear Only		
DeteBase									Holidays		
Dalabase	1			2004			•	12/24/2001	Christmas Eve		
<i>#</i>	1	_	(Octobe	a		•	12/25/2001	Christmas Day		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	12/31/2001	New Year's Eve		
Contractor								1/1/2002	New Year's Day		
Lard Manager						1	2	1/21/2002	Martin Luther King Day		
			<u> </u>		_			2/18/2002	President's Day		
1	3	4	5	6	7	8	9	5/27/2002	Memorial Day		
Auth. Groups					-		-	7/4/2002	Independence Day		
	10	11	12	13	14	15	16	9/2/2002	Labor Day		
								11/11/2002	Veteran's Day		
	17	18	19	20	21	22	23	11/28/2002	Thanksgiving Day		
Standard Times								12/24/2002	Christmas Eve		
2 (5)	24	25	26	27	28	29	30	12/25/2002	Christmas Day		
	21		-	-		-	· · ·	12/31/2002	New Year's tive		
	31							1/1/2003	New Years Day	-	
Holiday I mes						-		10/10/1015	In Ship I Times & Port and		
								Add	Delete		
Panel					1.1			1	1		
I			0	K			Cano	cel	Apply		
Host		_			-						
	Pan	els Onli	ine								

The Holiday List determines those days where the Holiday Time Periods are to be invoked.

Holidays should be added by selecting the appropriate month, clicking on a day, and filling in the information in the **Holidays** column.

Select Apply or OK to save your entries

4.6 Authorization Groups



An **Authorization Group (AG)** is used with the cardholder record. An AG is a list of readers and the time period in which these readers are accessible. Each cardholder can be assigned 4 Authorization Groups. When a card is presented to the reader, the panel checks the cardholders four AG and verifies that the card reader is valid within one of them. If the reader is not found in any of the Groups assigned to the cardholder, the system will deny access due to "**Invalid Reader**". When a reader is found within the AG, the current time is checked with the Time Period associated with the AG. If the time is not valid, an "**Invalid Time Period**" transaction will be generated and access will be denied. To set-up authorization groups:

1. Click the Authorization Group you are going to define.

🔳 LiNC-Ez - [Authorization Groups]				
Eile View	<u>D</u> atabase <u>P</u> anel <u>H</u> ost <u>W</u> indow IAM	<u>H</u> elp			_ 8 ×
	🗇 è 🔇 🔎 🦓	-			
View	Time Period	ID	Authorization Groups	Time Period	▲
	Normal Work Week 📃	1	Executive	ALWAYS	
DataBase		2	Administration	Normal Work Week	
		3	Accounting	Normal Work Week	
A		4	Engineering	Normal Work Week	
		5	Manufacturing	Normal Work Week	
Card Manager		6	Quality Assurance	Normal Work Week	
		- /	Shipping	Normal Work Week	
6		8	Receiving	Normal Work Week	· · ·
	Doors Available		Doors Assigned		
Auth. Groups	Select All		Back Door Front Door	Select All	
Standard Times	Clear All		>>>	Clear All	
Holiday Times			<<<		
5					
Panel		-			
	New Group Delete	Group	OK	Cancel A	Apply
Host					
	Panels Online				

2. Use the **Time Period** down pointer, select the time period to assign. Clicking on the time period you will notice that the time period next to the ID will be changed accordingly.

3. In the areas below, select from the **Doors Available** to be allowed for the current group and use the transfer arrows to move those doors into the **Doors Assigned** column.

4. Select **Apply** or **OK** to make the selection active.



4.7 Card Manager

4.7.1 Adding Cardholders through the Overview and Detail Tabs

- 1. To Add Cardholders to the database, click Database, then Card Manager.
- 2. The Card Manager Screen appears:

LINC-Ez - [Card Manager]													
Eile View	<u>D</u> atal	base <u>P</u> anel	<u>H</u> ost <u>W</u> indo	w IAM <u>H</u> el	p							_ 5	ı ×
View	\square	Ove	rview		Det	ail		Bulk Chan	qe	γ	IAM		ר
DataBase				, 					-	1			
<i>1</i>		Card ID	First Name	Last Name	Addr Line1	Addr Line2	Addr Line3	Long Acces	Card Active	CheckAcce:	CheckActive	Ac 🔨	
		1		Card1				No	Yes	0	-1	12	
Card Manager		2		Card2				No	Yes	0	-1	12	
Cara Manager		3		Card3				No	Yes	0	-1	12	
		4		Card4				No	Yes	0	-1	12	
-		5		Card5				No	Yes	0	-1	12	
Auth. Groups		6		Card6				No	Yes	0	-1	12	
<u>m</u>		7		Card7				No	Yes	0	-1	12	
		8		Card8				No	Yes	0	-1	12	
Ŵ		9		Card9				No	Yes	0	-1	12	
Standard Times		10		Card10				No	Yes	U	-1	12	
36 0		11		Card11				No	Yes	0	-1	12	
		12		Card12				No	Yes	U	-1	12	
		13		Card13				No	Yes	U	-1	12	
Holiday Limes		14		Card14				No	Yes	0	-1	12 🗸	
Holday List													
	-												-
Panel	D	oloto Card	Po-acc	ian N	Jow Card	14 4 1		N	OK	Canco			
Host	_	elete Culu			tew curu		_					VIAde	
		Panels Online											

3. Click on the card number
that you want to enter.

- 4. Click on the **Detail** tab to bring up the **Detail** screen.
- 5. Enter the Name, Department, Company Name and Address.
- 6. Enter **Phone** number and extension if appropriate.
- 7. Set the Activation Date

NOTE

The Activation Date defaults to today's date. If the card activates on a different date than today then change the date.

NOTE

All cards have a default expiration date of ten (10) years from issuance.

Linc-Ez - [Card Manager]		
Eile View	Database Panel Host Window IAM Help		
	🗇 è 🚱 🔎 🦞 🖵		
View	Overview Detail	Bulk Change	IAM
DataBase			
6	Card ID (12 digit): Last Name:	First Name: Damian No Picture	
Card Manager	PIN (4 digit): Company Name: xxxxx Any Company	Address: 123 Street St. Picture	
Auth. Groups	Department: Authorization Groups Marketing	Anytown, CA	
	Executive Phone: 555-8888	Extension:	
	Engineering Activation Date: 12/15/2003	Expiration Date:	
Holiday Times	None		
F	None Card Active	Long Access	
Holiday List			
Panel	Delete Card Re-assign New Card		Cancel Apply
Host			
	Panels Online		

- 8. Select an Authorization Group(s) for the cardholder.
- 9. Set Card Active to activate the card.

NOTE A card will not immediately activate if the activation date is set for the future.

- 10. Select **Long Access** to increase the amount of time the door can stay open without triggering an alarm.
- 11. Picture will add JPEG Picture File to card detail.

NOTE Must apply before moving to the next card detail, to save any changes.

12. Click on the right > of the **Change Record** tool to apply these entries and go to the next record.



13. Return to the **Overview** screen to verify that the card you entered has been properly accepted.

Linc-Ez - [(Card Ma	anager]									L.	
😂 <u>F</u> ile <u>V</u> iew	<u>D</u> atabase	e <u>P</u> anel j	<u>H</u> ost <u>W</u> indo	w IAM <u>H</u> el;	p							
View		Ove	rview		Det	ail	γ E	Bulk Change	• Y		IAM	
DataBase				, 				-				
æ	Ca	ard ID	First Name	Last Name	Addr Line1	Addr Line2	Addr Line3	Long Acces	Card Active	CheckAcce:	CheckActiv	e 4 🔨
		1	Damian	Michaels	123 Street S	Anytown, CA		No	Yes	0	-1	
Card Manager		2		Card2				No	Yes	0	-1	1
		3		Card3				No	Yes	0	-1	
<u> </u>		4		Card4				No	Yes	U	-1	
		5		Cardo				NO No	Yes V	0	-1	4
Auth. Groups		7		Cardo Card7				No	Tes	0	-1	
		8		Card8				No	Yes	0	-1	
w 🖤		9		Card9				No	Yes	0	-1	
Standard Times		10		Card10				No	Yes	0	-1	ti
Standard Times		11		Card11				No	Yes	0	-1	i
20		12		Card12				No	Yes	0	-1	1
>		13		Card13				No	Yes	0	-1	1
Holiday Times		1000		C				N	v	0	1	
Holiday List		<u>) ()</u>										
Panel Host	Delet	te Card	Re-ass	ign N	lew Card	H 1	► H	0	к	Cancel	A	oply
	Pan	els Online										

4.7.2 Alarm PIN User Number

📫 LiNC-Ez: C:\Pr	ogram Files\LiNC-Ez iAM\NewClien	ıt.mdb			_ = ×
Eile View Data	abase <u>P</u> anel <u>H</u> ost <u>W</u> indow IAM IC	X Help			
	🛎 🔄 📠 💈	→			
View	😂 Card Manager				
Transactions	Overview	Detail	Bulk Change		
••••	Card ID (12 digit):	Alarm Compa	ny Employee		
Panels	μ	Alarm PIN User I	Number (0-99, use dropdown)		
E		Alarm Zone Grou	a		
Reports		ZoneGroup2	•		
		Keypad PIN			
	Delete Card Re-assign	New Card		Cancel Apply	
DataBase					
Panel					
Host					
8	0 Panels Online				

Alarm Company Employee is a card for the alarm company. When selected card will not open or arm or disarm system unless an alarm has occurred. When system is normal, card presented to read will report to Central Station.

Alarm PIN User Number is first two digits of PIN number.

Alarm Zone Group is group armed or disarmed by PIN user.

Keypad PIN is last 2-4 digits of PIN number. Combine Alarm PIN User Number with Keypad PIN for user PIN number, i.e.: 01 and 11 pin number is 0111.

4.7.3 Bulk Change

Linc-Ez - [Card Manager]
Eile View	Database Panel Host Window IAM Help
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View	Overview Detail Bulk Change IAM
DataBase	
٢	
Card Manager	Department: Company Name: Address:
<u>e</u> .	Card Active
Auth. Groups	Authorization Groups
Ö	Phone: Extension:
Standard Times	
20	Activation Date: Expiration Date:
Holiday Times	12/15/2003 12/15/2013
1	▼ Bulk Change
Holiday List	
Panel	Delete Card Re-assign New Card H 1 D H OK Cancel Apply
Host	
	Panels Online

Bulk Change allows data to be populated into a range of cards in bulk rather than changing each record individually.

Enter the data that will appear in each of the card records and then use the Batch Change button to set up the range of cards to be affected.

NOTE You must download to panel before information is operational.

4.7.4 iAM

The **iAM** screen allows up to 99 individual cards to be specified for iAM alarm code access within particular zones using a separate PIN number. Please note that only the reader on the iAM panel can disarm an iAM panel. A card can be defined to disarm both a common area (such as a lobby) and another area/areas.

Linc-Ez - [Card Manager]		
Eile View	<u>D</u> atabase <u>P</u> anel <u>H</u> ost <u>W</u> indow IAM	Help	_ & ×
	🖾 🔄 🖗 🖉	•	
View	Overview	Detail Bulk Change	IAM
Transactions Panels Reports	Card ID (12 digit):	Alarm Company Employee Alarm PIN User Number (0-99, use dropdown) 11 0 Alarm Zone Group ZoneGroup2 Keypad PIN 11 1234	
DataBase			
Panel	Delete Card Re-assign	New Card I I I I OK	Cancel Apply
Host			
	Panels Online		

Each Card User can establish a six-digit iAM access code comprised of:

- 2-digit User Number
- 4-digit PIN number
- **NOTE**: The keypad MUST be used to re-arm the panel. Therefore, PIN numbers MUST be setup. Up to 4 keypads can be attached to the system.

4.7.4.1 Setting a iAM access card PIN code:

- 1. From the top menu, click on **Database** / **Card Manager** or on the **Card Manager** icon.
- 2. Specify the Card ID that will be given the iAM access code.
- 3. Determine the Alarm PIN User Number from the dropdown box (to a maximum 99 users).
- 4. Determine the Alarm Zone Group that the cardholder will be a member. See section 4.13.3 for more information on the proper creation of Alarm Zone Groups.
- 5. Press the OK button to save the settings and close the window.

4.7.4.2 Establishing an Alarm Company Guard Card

In the event of an alarm an Alarm Company Guard will be able to do the following:

- Ability to "register" at the customer site
 - o Card transaction recorded and sent to Central
 - No Access granted
- Ability to Gain Access during an Alarm Condition

To establish a card to be a specific Alarm Company Guard card, select the **Alarm Company Employee** checkbox. Follow the instructions for 4.7.1 as stated to finish the card programming.

🛅 LiNC-Ez _ 8 × File View Database Panel Host Window IAM Help 🖾 🍓 🚳 📠 2 ... e Configuration - 🗆 × View 2 Zo Selectable Options <-Event Codes DataBase Supervised Latched Inverted Pre-Alarm Delay Used Alarm Shorted Cut Bypassed 🔔 Zone Name Panel 131 Perime • 137 Tampi • 137 Tampi • 570 Zone/: • Test Zones 0 V (internet 100 V 131 Perime 137 Tamp - 137 Tamp - 570 Zone/ Zone2 0 2 Host 131 Perim • 137 Tamp • 137 Tamp • 570 Zone/ • 131 Perim • 137 Tamp • 137 Tamp • 570 Zone/ • V V 3 Zone3 0 1 V 1 V 4 Zone4 0 ¥ 131 Perime 137 Tamp ▼ 137 Tamp ▼ 570 Zone/(▼ 131 Perime 137 Tamp ▼ 137 Tamp ▼ 570 Zone/(▼ 111 V Zone5 0 V 5 V 6 Zone6 1 0 V Config. Wizard 131 Perime 137 Tamp ▼ 137 Tamp ▼ 570 Zone/(▼ 131 Perime 137 Tamp ▼ 137 Tamp ▼ 570 Zone/(▼ Zone7 101 V V Π Zone8 V V 8 n 111 V 131 Perime ▼ 137 Tampe ▼ 137 Tampe ▼ 570 Zone/(▼ 131 Perime ▼ 137 Tampe ▼ 137 Tampe ▼ 570 Zone/(▼ Zone9 Π Config. Doors V 10 Zone10 0 V 131 Perim∢ ▼ 137 Tamp ▼ 137 Tamp ▼ 570 Zone/(▼ 131 Perim∢ ▼ 137 Tamp ▼ 137 Tamp ▼ 570 Zone/(▼ Zone11 ٢ 11 Π V Zone12 Π 12 Host Alarm Off V 131 Perime 137 Tampe 137 Tampe 570 Zone/(* 131 Perime 137 Tampe 137 Tampe 570 Zone/(* 13 Zone13 n V 14 Zone14 n. V 131 Perime 137 Tamp 137 Tamp 570 Zone/ 131 Perime 137 Tamp 7 137 Tamp 7 570 Zone/ 15 Zone15 0 Test Host Alarm V 16 Zone16 n. V 131 Perime ▼ 137 Tamp ▼ 137 Tamp ▼ 570 Zone/ ▼ 131 Perime ▼ 137 Tamp ▼ 137 Tamp ▼ 570 Zone/ ▼ 17 Zone17 0 111 V 18 Zone18 n OK Cancel 1 Panel Online

Zone Name	identifies zones. Name can be changed here.
Supervised	must be selected for zone points with supervising resistors. Note: changing DRSTS-Door will change door supervised status in Configure Doors\Door Properties.
Latched	will latch each zone violation. Latch will report the violation only once.
Inverted	will invert the zone point normal condition.
Pre-Alarm Delay	will allow seconds of delay before zone violation will be reported.
Used	will indicate if Zone has been entered in Zone Group. This is automatically done.
Event Codes	are the codes sent to Central Station when Alarm, Shorted, Cut or Bypassed violation occurs.

4.7.4.3 iAM Zone Configuration

4.7.4.4 Creating Zone Groups

- Select ZoneGroupID, then select from Zones Available and move to Zones Assigned.
- 2. Do this for each ZoneGroupID required.
- 3. Apply when complete.



4.7.4.5 Calibrate or Suppress Alarm Zones

LiNC-Ez	
	caose Faul For Munow The Fab
View	Calibrate or Suppress Alarm Zones
	Calibrate Zones Bypass Alarm Zones
Transactions	Check the Alarm Zones to Bypass
	Zone1 Zone2 Zone3 Zone4 Zone5 Zone6 Zone7 Zone8
Panels	Zone9 Zone10 Zone11 Zone12 Zone13 Zone14 Zone15 Zone16
Reports	Zone17 Zone18 Zone19 Zone20 DutA-Bell DutB-Smoke1 DutC-Smoke2 DutD-Smoke3
	Drsts-Door NotAvailable NotAvailable NotAvailable NotAvailable NotAvailable NotAvailable NotAvailable
	Select All Clear All
	QK Cancel Apply

Calibrate Zoneswill calibrate supervised zone points. Select and Apply.Bypass Alarm Zoneswill suppress zone reporting for one Alarming.

4.7.4.6 Central Station Configuration

📫 Linc-Ez			
Eile View Da	tabase <u>P</u> anel <u>H</u> ost <u>W</u> indow IAM <u>H</u> elp		
	🗇 🞍 🚳 📠 🤗 🖕		
View	🖥 Central Station Configuration		
	Panel Account # (4 digit) 1234	Duress PIN Central Station Phone Number 1,800-555-1212	Admin PIN (4-digit)
Transactions	Max # of Tries to Send Alarm (1-255)	Seconds of No CS Response Timeout (1-255)	Minutes Between Bell Test (0-255)
Panels	Seconds Between Calls (1-255)	Common area Exit Delay (0-255 secs)	Minutes Between Line Test (0-255)
Reports	Seconds to Wait After CS Busy (1-255)	Common Area Entry Delay(0-255 secs)	Minutes Between CS Callback (0-65535)
	Alarm Buffer Trigger Level (1-32)	Bell Duration (0=never, 1-254 secs, 255=foreve	er)
	ОК	Cancel	ly

Panel Account #	the unique number for iAM sent to Central Station.
Max # of Tries to Send Alarm	(1-255) will set number retries of alarm to Central Station once the iAM is communicating with Central Station. If the iAM and Central Station is online but Central Station does not acknowledge the alarm after set retries, the iAM will consider alarm sent.
Seconds Between Calls	sets seconds for dialup. When iAM encounters an alarm it will delay for set number of seconds before dialing Central Station.
Seconds to Wait After CS Bus	y sets number of seconds to redial if Central Station line is busy.
Alarm Buffer Trigger Level	sets the number of Alarms before iAM overrides the Seconds Between Call delay to dials the Central Station.
Duress PIN	number added to end of User PIN to send silent alarm to Central Station.
Central Station Phone #	the Central Station number.
Admin PIN	number to enter Administration features at keypad on iAM.
Seconds of No CS Response	Timeout sets the seconds to hang up if Central Station does not communicate.
Common area Exit Delay	sets time to leave and secure building.
Common Area Entry Delay	sets time to delay before reporting alarm if no pin number disarms iAM.
Bell Duration	sets length of Bell output A. Zero for never; 1-254 seconds or 255 forever.
Minutes Between Bell Test	monitors Bell condition.
Minutes Between Line Test	monitors phone line condition.
Minutes Between CS Callback	sets the regular time period iAM call into Central Station.





4.8.1 Import

😫 Im	port	Data								
		DataBase	Status							
1	V	Authorization Groups								
2	Ľ	Card Database								
3	Ľ	Central Station Parameters								
4		Daylight Savings								
5		Door Configuration								
6		Door List								
7		Holiday List								
8		Holiday Time Periods								
9		IAM/IQX/AUX Settings								
10		Reader Configuration								
11		Site Codes								
12	-	Standard Time Periods								
13		Transaction History	Transaction History							
14		Zone Configuration								
15		Zone Group Assignments								
16		Zone Group Names								
Select All Select None										
OK <u>C</u> ancel Apply										

In the event that an administrator needs to import card information from a separate LiNC-EzTM system, the **Import** feature will override the existing LiNC-Ez TM database.

- 1. By selecting **Import** from the **database** menu, the Import window appears.
- Select the LiNC-Ez[™] features that you wish to import (see below).
- 3. Click the **OK** button. **Save In** window will appear with the title "Choose a database to backup to" with the default name **Export.mdb**.
- 4. Choose a database file to restore from and click the **Save** button.

Choose a datab	ase file to rest	ore from			? 🗙
Look <u>i</u> n:	🗀 LiNC-Ez iAM		•	+ 🗈 💣 🎟	•
CO Recent	Graphics				
Desktop					
My Documents					
My Computer					
My Network Places	File <u>n</u> ame: Files of <u>type</u> :	Export.mdb Access files (*.mdb)		•	Open Cancel



4.8.2 Export



 $LiNC-Ez^{TM}$ has added a new feature that allows an administrator to export the existing $LiNC-Ez^{TM}$ database. This is beneficial for archiving. Emergency back-up, and for transferring the database to another computer.

- 1. By selecting **Export** from the database menu, the **Export Data** window appears.
- Select the LiNC-Ez[™] features that you wish to export to a different copy of LiNC-Ez[™] (see below). Click the **OK** button.
- 3. A **Save As** window will appear with the title "**Choose a database file to back up to**" with the default name of **Export.mdb**. Choose an appropriate location for the exported database, and click the **Save** button.





NOTE Export you parameters regularly. This information is necessary for recovery.

4.9 Download/Broadcast

🗈 Linc-Ez - [Download]	K
📝 Eile View	Database Panel Host Window IAM Help	×
View	Download File Last Download Time Status	
DataBase	Auth. Groups Card Manager	
Card Manager Card Manager Card Manager Auth. Groups Composition Standard Times	Central Station Parameters Communication Parameters Config. Doors Daylight Savings Holiday List Holiday Times Reader Configuration Site Codes Standard Time Periods Zones	
Holiday Times	Zone Groups Download All Panels Broadcast to All Panels]
Holiday Li	Panel to Download Factory Defaults Clear All Select All	
Panel Host	OK Cancel Apply	
	Panels Online	國際認識



Once the parameters have been set up, they are downloaded from this screen.

- 1. Select files to download
- 2. Select Download All Panels or Broadcast to All Panels.
- 3. Click the **Apply** button.

During the download, a progress bar appears near the bottom of the screen to give you the current status. **Broadcast to All Panels** will download all panels on a loop.

To set Factory Defaults:

- 1. Select the File menu item
- 2. Click the **Factory Default** button. *Only use this button when you want return to Factory Default.* It will **not download** to panel.
- 3. You must exit Linc-Ez, then re-enter for defaults to take effect.

NOTE Firmware Download allows upgrade for new panel application firmware, not to download parameters.

4.10 Transaction Monitor

The Transaction Monitor screen p	presents each of the	transactions occurrin	ig on the system.
----------------------------------	----------------------	-----------------------	-------------------

Transaction Monito	r					
Date/Time	Event	IQX #	Door Name	Reader	Card #	Card Holder Name 🔺
04/16/2000 07:14:16 PM	Door Left Open	1	Room 101	A		
04/17/2000 02:32:59 PM	Door Left Open	1	Room 101	A		
04/17/2000 02:100 PM	Tamper Switch Closed	1	Room 101	A		
04/17/2000 02:33:25 PM	Tamper Switch Opened	1	Room 101	A		
04/17/2000 02:40:32 PM	Tamper Switch Closed	1	Room 101	A		
04/17/2000 02:40:36 PM	Tamper Switch Opened	1	Room 101	A		
04/17/2000 02:45:38 PM	Tamper Switch Closed	1	Room 101	A		
04/17/2000 02:45:43 PM	Tamper Switch Opened	1	Room 101	A		
04/17/2000 03:22:36 PM	Door Forced Open	1	Room 101	A		
04/17/2000 03:22:37 PM	Door Closed	1	Room 101	A		
04/17/2000 03:22:54 PM	Exit Requested	1	Room 101	A		
04/17/2000 03:22:55 PM	Exit Requested	1	Room 101	A		
04/20/2000 01:12:44 PM	Alarm On by Operator	1	Room 101	A		
04/20/2000 01:13:31 PM	Door Locked by Operator	1	Room 101	A		
04/20/2000 01:13:52 PM	Door Unlocked by Operator	1	Room 101	A	000000000000000000000000000000000000000	
04/20/2000 01:13:52 PM	Door Unlocked by Operator	1	Pool House	В	000000000000000000000000000000000000000	
04/20/2000 01:14:00 PM	Door Locked by Operator	1	Room 101	A		
04/20/2000 01:14:00 PM	Door Locked by Operator	1	Pool House	В		
04/20/2000 01:14:13 PM	Door Locked by Operator	1	Room 101	A		
04/20/2000 01:14:13 PM	Door Locked by Operator	1	Pool House	В		–
•						
					1	
	Browse		Archive		ок	
				_		

Check the **Browse** box to prevent the screen from updating while you scan through entries.

Archive the transactions by clicking the **Archive** button. You will be asked for the number of days prior to today to archive. To archive the last week, enter 7; to archive the last month, enter 30. Archive will remove transaction from LincEZ. Archive located in CSV file, compatible with spreadsheet or database.

NOTE When **Transaction Monitor** refreshes *slow*, **Archive** the **Transaction Monitor**.

Select **OK** to close this screen.

4.11 Site Codes



A Site Code (also known as a Facility Code) allows independent operation of each LincEZ system. In a multi-tenant building with multi-LincEZ is they would run completely independent.

The Multi-Site Code feature allow up to 16 site code on one LincEZ. This has the added benefit to program only one LincEZ with or without Site Code separation.

- 1. Select Site codes from the Database top menu or vertical menu selection.
- 2. Highlight --- (dashes) in Site Code # column, and type in site code number.

Linc-Ez - [Site Codes]		
5 Eile View	<u>D</u> atabase <u>P</u>	anel <u>H</u> ost <u>W</u> indo	w IAM <u>H</u> elp	_ 8 ×
	<i>i</i>	k 🖗 📠	2 -	
View		Site Code #	Description	
DataBaco	1	—	Unassigned	
Dalabase	2	—	Unassigned	
A	3	—	Unassigned	
	4	—	Unassigned	
Card Manager	5	—	Unassigned	
	6	—	Unassigned	
19 -	7	—	Unassigned	
Auth. Groups	8	—	Unassigned	
	9		Unassigned	
Ŵ	10		Unassigned	
Standard Times	11		Unassigned	
× 6	12	_	Unassigned	
	13		Unassigned	
Holiday Times	14		Unassigned	
Sec. 1	15		Unassigned	
			Unassigned	
Panel				1
		ОК	Cancel Apply	
Host				
	Panels (Online		

Note The original Site Codes is located on the CD and will automatically load upon installation.

3. To finish the job, select Apply and OK

4.12 Generating Reports



There are five reports that can be printed in $\text{LiNC-Ez}^{\text{TM.}}$

- Card Holder Report
- Holiday List
- Holiday Time Period
- Standard Time Period
- History Log
- 1. Select Reports from the View top menu or vertical menu selection.
- 2. Select the report you wish to print by highlighting it with the mouse.
- 3. Now select the sorting mode you want.
- 4. Select **Preview** to view the report on the screen before printing it out.

LINC-EZ Elle View Dat View Transactions Panels	abase 10X Host Window Help 	Preview Card ID (6 digit): Department	 5. Selecting the Print button after previewing will show you a sample page of the report on the screen before printing it out 6. Click on the printer icon to send the report to the default printer on your system.
Reports	C Department	T All Cards	Ed.S.
	CardID FirstName LastName	AddrLine1 AddrLine2	AddrLine3 LA & 100% Trails 100% 50 at 50
	1 000001 Wille Evelean	12345 Everywhere Torrance, CA 90503	F
	2 000002		F
	3 000003	-	F
	4 000004		
	8 000005		Г Е Сепералу:
	7 000007		Department:
	8 000008		F
	9 000009		F . Card Arthre: Yes
	ы		navy 01, 2000 Expiration Date: January 01, 2010
			Authoritation Graup_1 Graup_2; 0 Graup_1 0 Graup_4; 0 Is
			Card ID 000002
			Name: Company: Address: Desartment:
			Phone: Extension:
			Long Access: No Card Active: Yes
			Activation Date: Jamary 01, 2000 Expiration Date: Jamary 01, 2010
			Authoritation.Group_1 0 Group_4; 0 L:
			Card ID 000003
			Name: Company:
			Address: Department:

4.13 iAM Security Management

Each iAM panel has 21 inputs and 99 zones that can programmed using LiNC-EzTM. This section discusses the proper method of Configuring Alarm Zones and Alarm Groups and how to set the Central Station

Linc-Ez - [Zone (Configuration]						
🛼 Eile View	<u>D</u> ataba	se <u>P</u> anel <u>H</u> ost <u>W</u> indow	IAM <u>H</u> elp					_ 8 ×
	đ	è 🚱 📠	🦓 ݷ	,				
View		<	– Selecta	ble Opt	ions —	>		<
DeteRess		Zone Name	Supervised	Latched	Inverted	Pre-Alarm Delay	Used	Alarm S
Database	1	Zone1				0	Ľ	131 Perim 🔻 137
Panel	2	Zone2				0	Ľ	131 Perim 🔻 137
	3	Zone3		M		0	Ľ	131 Perim 🔻 137
PEZ.	4	Zone4		M		0	Ľ	131 Perim 🔻 137
∕↓	5	Zone5				0	Ľ	131 Perim 🔻 137
Download	6	Zone6		M		0	Ľ	131 Perim 🔻 137
	7	Zone7		M		0	Ľ	131 Perim 🔻 137
	8	Zone8		M		0	Ľ	131 Perim 🔻 137
Unlock/Lock	9	Zone9		M		0		131 Perim 🔻 137
oto	10	Zone10		M		0		131 Perim 🔻 137
X	11	Zone11		M		0		131 Perim 🔻 137
Alarm On/Off	12	Zone12		M		0		131 Perim 🔻 137
	13	Zone13		M		0		131 Perim 🔻 137
	14	Zone14		M		0		131 Perim 🔻 137
Collecto	15	Zone15		M		0		131 Perim 🔻 137
Laiibrate	16	Zone16		M		0		131 Perim 🔻 137
	17	Zone17		M		0		131 Perim 🔽 137
	18	Zone18		M		0		131 Perim 🔻 137
					пк	Cancel		Annly
Host								(1994)
	Pa	inels Online						

4.13.1 Configuring Alarm Zones using LiNC-Ez[™]

Each Zone is comprised of two general features, the Selectable Options and the Alarm Event codes.

The Selectable Options are the:

- Zone Name
- Supervised
- Latched •
- Inverted •
- Pre-Alarm Delay

LiNC-Ez[™] automatically establishes default Alarm Event codes:

- 131 Perimeter Alarm Alarm
- •
- Shorted 137 Tamper
 - Cut 137 Tamper •
 - Bypassed 570 Zone/Sensor/Bypass •

However, other event codes can be substituted for the default codes through the dropdown boxes.

4.13.2 Setting the Parameters for the Central Station Notification

Linc-Ez - [Central Station Configuration]	
Eile <u>V</u> iew	Database Panel Host Window IAM Help	
	🖾 🔄 🚱 📕 💡 🖵	
View	Panel Account # (4 digit)	Duress PIN Central Station Phone Number Admin PIN (4-digit)
₩. a.	1234	* (1-800-555-1000)
	Max # of Tries to Send Alarm (1-255)	Seconds of No C S Response Timeeut (1 -255) Minutes Between Bell Test (0-255)
Transactions	3 -	
	Seconds Between Calls (1-255)	Common area Exit Delay (19-255 secs) Minutes Between Line Test (0-255)
Panels	5	
	Seconds to Wait After CS Buse (1-255)	Common Area Entru Delau((1/255 secs) Minutes Between CS Callback (1)-65535)
4≣P Reports		
	Alarm Buffer Trigger Level (1-32)	Bell Duration (0=never, 1-254 secs, 255=forever)
D 1 D 1	32	5
DataBase		
Panel	ок	Cancel Apply
Host		
	Panels Online	

 $LiNC-Ez^{TM}$ connects to the Central Station through the built-in modem on the iAM panel. In order to contact the central station, the phone number needs to be programmed into LiNC- Ez^{TM} .

- 1. From the top menu, press IAM / Central Station Configuration.
- 2. Enter the phone number for the Central Station.
- 3. Press the **Apply** button to save the change.
- 4. If you wish to change any of the additional settings for contacting the Central Station, do so at this time.
- 5. Press the OK button to save your settings and close the **Central Station Configuration** window

4.13.3 Configuring the Zone Groups

A Zone Group is a combination of different zones identified by a common name and used for ease in programming.

Linc-Ez - [Zone Groups]						
📴 <u>F</u> ile <u>V</u> iew	<u>D</u> atabase <u>P</u> anel	<u>H</u> ost <u>W</u> indow IAM	<u>H</u> elp				_ 8 ×
	۵ 🍓 🗊	🚳 📠 💈	▼				
View		ZoneGroupID	ZoneGroupName (13 (Characters Max)			
DeteBase		0	No Zone	25			
Dalabase		1	CommonA Zana Casa	rea 	-		
Panel		2	ZoneGrou	1p2 un3	-		
		4	ZoneGrou	ар4	-		
pez.		5	ZoneGrou	µр5			
/↓		6	ZoneGrou	1p6			
Download		7	ZoneGrou	лр7	-		
		Zones Available	∠ones /	Assigned			
Unlock/Lock	Select All	Zone1 Zone2 Zone3 Zone4				Select All	
8	1	Zone5					
Alarm On/Off	Clear All	Zone6 Zone7 Zone8 Zone8	<u>>>></u>			Clear All	
		Zone10					
Calibrate		J∠oneTI					
		1	1		- 1		
		ОК	Cancel	Apply			
Host							
	Panels Online	•					

Each Zone Group can hold a selectable number of Zones. LiNC-Ez[™] comes with a default setting for the first three Zone Groups:

- Zone Group 0 No Zones
- Zone Group 1 Common Area
 - Bell Output
 - o Door Status
- Zone Group 2 Alarm Zones 1-8

To create a custom Zone Group:

- 1. From the top menu, select iAM / Zone Group Configuration
- 2. Select the appropriate Zone Group (3-99) that you wish to program.
- 3. In the Zone Available window, select the Zones to be assigned to the Zone group. Use the CTRL button to highlight individual zones.
- 4. Press the arrow button to move the selected zones to the Zones Assigned window.
- 5. Press the Apply button to save the selection or press the OK button to save the selection and close the window.

4.13.4 Calibrating a Supervised Alarm Zone

Alarm Zones are system Defaulted to "Non-Supervised" from the Factory. LiNC-Ez[™] has the ability to create a Supervised Alarm Zone. However, you must define a Zone for "Supervision" before Calibrating can be accomplished. Also, PCSC approved End of Line resistors must be installed to provide accurate monitoring. Only twenty zones can be programmed. In order establish supervision, a Zone needs to be selected for supervision via the Zone Configuration screen.

5 Ele View	<u>D</u> ataba	se <u>P</u> anel <u>H</u> ost <u>W</u> indow	IAM <u>H</u> elp						_	a ×
View	•	<	– Selecta	ble Opt	ions —	>		<	- Event	Co
		Zone Name	Supervised	Latched	Inverted	Pre-Alarm Delay	Used	Alarm	Shorted	
52 (S 6202	1	Zone1		V		0	Ľ	131 Perim 🔻	137 Tamp 🔻	137
1221	2	Zone2		×		0	V	131 Perim 🔻	137 Tamp 🔻	137
Transactions	3	Zone3		×		0	Ľ	131 Perim 🔻	137 Tamp 🔻	137
••••	4	Zone4		V		0	Ľ	131 Perim 🔻	137 Tamp 👻	137
	5	Zone5	(🗹)	V		0	V	131 Perim	137 Tamp 🔻	137
Panels	6	Zone6	\mathbf{Y}	V		0	V	131 Perim	137 Tamp 👻	137
r_	7	Zone7	-	×		0	¥	131 Perim	137 Tamp 👻	137
49	8	Zone8		M		0	V	131 Perim	137 Tamp 👻	137
Benorts	9	Zone9		V		0		131 Perim	137 Tamp 🔻	137
Topono	10	Zone10		V		0		131 Perim	137 Tamp 🗸	137
	11	Zone11		V		0		131 Perim	137 Tamp 👻	137
	12	Zone12		V		0		131 Perim	137 Tamp 👻	137
	13	Zone13		V		0		131 Perim	137 Tamp 👻	137
	14	Zone14		V		0		131 Perim	137 Tamp 👻	137
	15	Zone15		V		0		131 Perim	137 Tamp 👻	137
	16	Zone16		V		0		131 Perim	137 Tamp 🗸	137
	17	Zone17		V		0		131 Perim	137 Tamp 👻	137
DataBase	18	Zone18		V		0		131 Perim 🔻	137 Tamp 🔻	137
Panel	el			ок	Cancel		Apply			
Host								. 1999		
	Pa	nels Online								

- 1. From the top menu, select **iAM** / **Zone Configuration**.
- 2. Find the zone(s) that is to be supervised and select the checkbox in the **Supervised** column.
- 3. From the top menu, select iAM / Calibrate or Suppress Alarm Zones.

Linc-Ez - [0	Calibrate or Suppress Alarm Zones]
5 Eile View	Database Panel Host Window IAM Help
View	Calibrate Zones Bypass Alarm Zones
DataBase	Check the Alarm Zones to Calibrate
Panel	
₽ ₽ ╱	V Zunerj Zunez Zunes Zune4 Zune5 Zune6 Zune7 Zune6
∕∕↓ Download	□ Zone9 □ Zone10 □ Zone11 □ Zone12 □ Zone13 □ Zone14 □ Zone15 □ Zone16
Ilplock/Lock	Zone17 Zone18 Zone19 Zone20 OutA-Bell OutB-Smoke1 OutC-Smoke2 OutD-Smoke3
25	T Drsts Door T NotAvailable
Alarm On/Off	
-	Select All Clear All
Calibrate	
Host	<u>UK</u> <u>Cancel</u> <u>Apply</u>
	Panels Online

4. Select the zone(s) that is to be calibrated.

Press the Apply button to save your changes, or press the OK button to save your changes and exit the window.

5.0 LiNC-Ez Communication

5.1 Single Modem; Multiple Panel (SMMP)



At the LincEZ PC

A standard modem cable (p/n: 04-10291-001) is connected between PC DB9 - Com1 to modem DB25, and the modem to the telephone line (see diagram). Follow all modem installation instruction for proper handling and power requirements.

NOTE For proper function, please use a single pair of external PCSC US Robotic Modems 33K or greater w/ Dipswitch (PCSC model # MODAEXT).

Set PC modem DIP Switch:

5 – Up (Auto Answer on First Ring)

6 - Up (Carrier Detect Normal)

All other DIP Switch OFF

PC modem setup:

- 1. Power modem; reboot the PC System. Install New Hardware Found; select Standard Modem driver
- 2. After the Standard Modem has been installed, go to the Control Panel \ Modem \ Properties and set parameter as:

Data bits – 7 Parity – odd Stop bits – 1 No Flow Control "Wait for dial tone before dialing" checked

5.1.1 Panel Loop

The Panel Loop can handle 1-32 panels. All panels must be wired as directed in installation manual. RS 485 wiring is Plus (+) to Plus (+); Minus (-) to Minus (-); Com connected all Com; All Shield connected to ONE earth ground. The Panel Loop modem has special cable (p/n # 04-10344-001) to RS485 converter. Attach Panel Loop phone line to modem.

Set Panel:

All panels in the loop must be set to modem mode. On **Panel PCB** set dip switch #8 – ON (toward LED) The dip switch #8 set the panel in modem mode.

Set Loop modem DIP Switch:

- 3 Up (Suppress Results Codes)
- 5 Up (Auto Answer on First Ring)
- 6 Up (Carrier Detect Normal)

All other DIP Switch OFF

WARNING: Don't confuse the settings of DIPswitch on modem and the panel. They are not the same.

LiNC-Ez	
Eile <u>V</u> iew <u>D</u> ataba	ase IQX Host Window Help
	🗇 💩 🚱 📠 🤗 🖕
View	🛃 IQX Communications
	Default Communication Type Poller Delay 50 - (msecs)
	Modem Apply Poll Rate 50 (msecs)
I ransactions	Set IQX Password
Panels	Serial TAPI/Modem
	Modem Initialization String ATEVQ1HS0=1&D0&U6&
Reports	Host Primary Phone # Loop Phone Dial Dial
	Host Secondary Phone # Record Connection Failures Hang Up
	Max Dial Tries Per Connection 3 History Transactions Buffer Limit 100
	Minutes Between Retries 5 Enable Automatic Hang Up 100 H Before Hangup
	Scheduled Call Interval Minutes 60 Scheduled Call Days
	Seconds of No Traffic Limit 25 ESU EMO ETU EWE TH EFR ESA
DataBase	
IQX	OK Cancel Apply
Host	
8	3 IQXs Online

5.2 Modem SMMP Programming

Pull down from Top Menu **Panel** and select **Panel Communications**. In *Default Communication* Type pull down select **Modem** and Apply.

In TAPI/Modem enter:

Host Primary Phone #	-	First phone number IQ Loop will dial for alarm condition
Host Secondary Phone #	-	If Primary Host line does not engage then Secondary phone number will be called. If no Secondary line available, then reenter Primary Phone number. If no Secondary Phone number present then phone line will incorrectly dial second number.
Loop Phone Number	-	Enter Phone number for panel Loop.
Dial button	-	Will dial Loop Phone number.
Hang Up button	-	Hang up manual the Loop Phone number
Max Dial Tries Per Connection	-	Enter Maximum number of tries to connect
Minutes Between Retires	-	Enter number of minutes between retries.
Schedules Call Interval Minutes	-	Enter number of minutes between Schedule calls on Schedule days.
Seconds of No Traffic Limit	-	Time before phone call attempted.

5.2.1 Computer Configuration

In order to have modem communication, COM 1 of the computer must be configured.

öystem Prop	erties			<u>?</u> ×
System	n Restore	Automa	atic Updates	Remote
General	Comp	uter Name	Hardware	Advanced
Device N	lanager The Device M on your comp	anager lists all uter. Use the D	the hardware dev	vices installed
~	properties of a	ny device.	Device	Manager
Drivers=				
	Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.			
	Driver \$	Bigning	Window	s Update
Hardwar	e Profiles			
\gg	Hardware prof different hardv	iles provide a v vare configurat	way for you to set ions.	up and store
			Hardwa	re Profiles
		OK	Cano	el Apply

- 1. Right click on **My Computer** icon and select **Properties**. In the pop up window, select the **Hardware** tab and click on **Device Manager**.
- 2. Find and open **Ports** and double click on **Communications Port COM 1**.

Communications Port (COM1) Properties	<u>? ×</u>
General Port Settings Driver Details Resources	
Bits per second: 9600	
Data bits: 7	
Parity: Odd	
Stop bits: 1	
Flow control: None	
Advanced Restore Defaul	ts
UK Cano	;el

3. Select the **Port Settings** tab and change the settings to **9600** Bits per second, **7** Data bits, **Odd** Parity, **1** Stop Bit, and **None** for Flow Control. Click on **OK**.

5.2.2 Modem Configuration

Phone and Modem Options	? ×
Dialing Rules Modems Advanced	
The list below displays the locations you have specified. Sele location from which you are dialing.	ct the
Location Area Code	
New Edit Delet	e
OK Cancel A	pply

- 1. Click on the **Start** button at the taskbar. Click on **Settings** and open up the **Control Panel**. Double click on **Phone and Modem Options**.
- 2. Click on the New button in the Dialing Rules tab.

New Location	<u>? ×</u>
General Area Code Rules Calling Card	
Location name:	
Specify the location from which you will be dialing.	
Country/region:	Area code:
United States	
Dialing rules When dialing from this location, use the following rules: To access an outside line for local calls, dial: To access an outside line for long-distance calls, dial: Use this carrier code to make long-distance calls: Use this carrier code to make international calls: Use this carrier code to make international calls: Dial using: To ne Dial using:	
OKCance	Apply

Type in the location name and select the Country/region and type in the area code. Make sure that the **Tone** is selected for Dial using. Click on **Apply** for the changes to take effect.

New Location	×
General Area Code Rules Calling Card	
Location name:	1
Specify the location from which you will be dialing.	
Country/region: Area code:	
United States	
Dialing rules When dialing from this location, use the following rules: To access an outside line for long-distance calls, dial: To access an outside line for long-distance calls, dial: Use this carrier code to make long-distance calls: Use this carrier code to make international calls: To disable call waiting, dial: To disable call waiting, dial: Dial using: Tone Pulse	
OK Cancel Apply	

3. Type in the location name and select the Country/region and type in the area code. Make sure that the **Tone** is selected for Dial using. Click on **Apply** for the changes to take effect.

5.2.3 LiNC-Ez[™] Panel Communications



1. In the top menu, select **Host** and click on **Panel Communications**.

LINC-E2: C:\P	rogram Files\LINC-Ez iAM\NewClient.mdb	<u>_8</u> ×
Elle Yew Dat	abase Banel Host Window IAM IOX Help	
27 📰	🖾 💩 👰 💂 🢡 🖕	
View	Panel Communications	
Panels Reports	Default Communication Type Poller Delay 100	
DataBase Panel Host	QK Qancel Apply	
A	0 Panels Online	

- 2. Change Default Communication Type from Serial to **Modem** and click on the **Apply button.**
- 3. Click on the **TAPI/Modem** tab and in the **Loop Phone Number box**, type in the phone number to the iAM panel (This is for communication between the PC and the iAM. Click on the **Dial** button to establish communication.

5.2.4 iAM Modem Communication Setup



Three dedicated phone lines and two modems are required. One modem and phone line is needed for the PC (for LiNC- Ez^{TM} software). The second modem and phone line is needed for the iAM panel. The third phone line is needed for the central station. Communication exists between the PC and the iAM panel. This is to download the parameters to the iAM panel. Communication also exists between the iAM panel and the Central Station. If a zone is tampered and an alarm is triggered, the iAM panel will automatically call the Central Station.

5.3 TCP/IP Communication (Optional LAN/Ethernet))

- 1. Connect a Panel to the UDS-10 using the appropriate cable for the DB25 Serial Port.
- 2. Connect an **Ethernet cable** from the **PC** to the **10BaseT Port** and apply power to the unit.
- Install .NET Framework Version 1.1 (Win2000/XP/Server 2003 must install .NET Framework Redistributable Package Version 1.1 prior to installing .NET Framework Version 1.1).
- 4. Install Java Run Time Environment 1.4.2.
- 5. Install Lantronix Device Installer.
- Set up the static IP address for the PC by clicking on Start at the taskbar/Control Panel/Network Communication.
- Right click on the LAN connection and select Properties. Find Internet Protocols (TCP/IP) and click on Properties.



 Select Use the following IP address. Set the IP address (ex. 192.168.168.25) and press tab on the keyboard to automatically se the subnet mask. Click on OK.

Internet Protocol (TCP/IP) Propertie	s <mark>?</mark> ×				
General					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
Obtain an IP address automatically	y				
Use the following IP address: —					
IP address:	192 . 168 . 168 . 25				
Subnet mask:	255.255.255.0				
Default gateway:	· · ·				
C Obtain DNS server address autom	atically				
☐ Use the following DNS server add	resses:				
Preferred DNS server:					
Alternate DNS server:	· · ·				
	Advanced				
	OK Cancel				

- 9. Click on Start on the taskbar and select Programs/Lantronix/ DeviceInstaller.
- 10. Click on **Search** to find the UDS device. The UDS-10 should be online.



10. Click on the UDS-10 device and the toolbar (menu) should change.

Lantronic WEB-Man	ager - Microsoft Internet Expl	orer			_@×
Ele Edit Yew Fav	orites Iools Help	* * * * * * * *			<i></i>
Greek · O ·	🗴 👔 🏠 🔎 Search	👷 Pavorites 😸 🔂 🖌 🎃 🗹 🔹 📙	1 🗱 🖏		
Address 🔊 http://192.1	68.168.32/			💌 🄁 Go	Links ³⁹
LANTR	ONI <mark>X</mark> °	Web-Manager Version 3.30	Tech Support FTP - Site	Back to Web-Manager Contact Us	
					*
	Menu	Selected Channel : 1			- 1
	Unit Configuration	Serial Protocol	R8485- 2 wire		- 1
	Server Properties	Sneed	9600		- 1
	Port Properties	Character Size	7		
	Factory Settings1	Parity	Odd	¥	- 1
	Update Settings	Stonhit	1	×	
	Select Channel	Flow Control	None	×	
	Channel1	Connect Mode Settings			
		UDP Datagram Mode	Disable		
		UDP Datagram Type			
				ab(e	
		Incoming Connection	Accept unconditional	×	
		Response	Nothing (quiet)		
		Startup	No Active Connection Startup		
		Dedicated Connection			
		Remote IP Address			
		Remote Port			-
Applet container starte	ed			 Internet 	

 Click on Web. Change the port settings to RS485-2 Wire Serial Protocol, 9600 Speed, 7 Character Size, Odd parity, 1 Stop bit, and None for flow control. Also, set the local port to 3001. Click on Update Settings, which is located on the left.

Outer Delay Commendation Type Poller Delay 50 + (maccs) Poller Delay 50 + (maccs) Poller Delay 50 + (maccs) Set DX Password Scan DataBase [DX Password] Post DataBase Pass [DX Password] DataBase [DX Password] Password [DX Password] Set DX Password [DX Password] DataBase [DX Password] Password [DX Password] </th <th>File View Dat</th> <th>Wogram Res (LNL-E2 UV) (Shared (Jatabase Lindo</th> <th></th>	File View Dat	Wogram Res (LNL-E2 UV) (Shared (Jatabase Lindo	
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Perf Address 192.100.100.33 Port 5001 Enable Logging Step Pater QK Qancel Parell	View View Iransactions Panels	Ended Communication Type Poller Delay 50 ± (msecs) TDP/Minsock Apply Set 10X Password Scan Set 10X Password TOP/Minsock	
DetaBase Panel Host	Reports	Addess [192,168,168,33] Port [3001	
DeteBase Panel Host		Cancel Apply	
Panel Host	DataBase		
	Panel Host		

- 12. Open LiNC-Ez iAM and click on Panel at the top menu and select Panel Communications. Change the Default Communication Type from Serial to TCP/Winsock and click on Apply.
- 13. Select the **TCP/Winsock** tab and set the address and port number. The address is the same address that is seen in the DesignInstaller window for the UDS-10 device. The port is 3001. Click on apply. The panel should be online now.

5.3.1 Local Area Network Installation (IP Address Assignment)

Follow the Lantronix Terminal Server installation instructions. Make sure you note the UDS 10/100 IP Address and Port number. Program both the IP Address and the Port number in LiNC-Ez Panel Communication tab (section 5.2.3) and in the TCP/Winsock (section 5.3).



5.3.2 Wide Area Network Installation (IP Address Assignment)

For WAN setup, follow the Lantronix Installation Instructions to setup communication to the terminal server. Give your IP Manager the IP Address and Port assignment. Your IP Manager should assign the UDS 10/100 port to your Public Router. Program both the IP Address and the Port number in LiNC-Ez Panel Communication tab (section 5.2.3) and in the TCP/Winsock (section 5.3).



6.0 Appendix iAM Startup & Default Parameter

The iAM operates and can be changed or tested without LincEZ-iAM software. Programming, setup and testing can be performed through the Optex keypad. Administrative privilege is required. Install iAM, Optex keypad, PCSC reader, door lock, REX switch, Zone sensors and bell as instructed in Installation Manual.

Upon first power up, the following default parameters exist. To RESET to default parameters, set iAM dip switch to zero and re-power. The iAM will take 20 seconds to reset all parameters. Change iAM dip switch back to #1. Battery Data backup requires iAM to be set to #1.

Once LincEZ-iAM communicates to iAM the parameter are set by LincEZ-iAM.

Cards #1-5 are Pre-Programmed ZoneGroup 2, Executive PIN holders	-	Card #1 pin number is 0111; #2 is 0222; #3 is 0333; #4 is 0444; #5 is 0555
Admin PIN number (password)		<ent><ent><ent> 1, 2, 3, 4</ent></ent></ent>
Date & Time		00:00:00 am & 01/01/2000
1-Zones 1-State (zones in uses)	•	1-8 Zone, 21-Out A(bell), 25 DRSTS (door) are Normal (in uses)
1-Zones 2-Calib		All zones NOT supervised (can't calibrate)
1-Zones 3-Suprvs		All zones NOT supervised
1-Zones 4-More 5-Latch		All zones latched
1-Zones 4-More 6-Invert		All zones normal (normal closed, alarm open)
2-ZGrps 1-Zones in ZGrp 1-Common Area	•	21-Out A (Bell), 25-DRSTS Door are in Common Area zone group
2-ZGrps 1-Zones in ZGrp 2-Zone Group 02		1-8 Zone
2-ZGrps 1-Zones in ZGrp 3-99 Zone Group		NO Zones in Groups
3-Alarms		***Depends on Installation uses of Zone 1-8***
4-More 5-Date 1-3(style)		Changes Date
4-More 6-Time		Enters Time of Day
4-More 7-Phone		1, (enter Central Station phone number)
4-More 8-More 9-Delay 1-Enty		20 seconds Entry Delay
4-More 8-More 9-Delay 2-Exit		20 seconds Exit Delay
4-More 8-More 1-Bell		255 (forever) Bell Durations
4-More 8-More 2-Keypad		20 second keypad time out
4-More 8-More 3-Admin 1-PIN		1, 2, 3, 4 (Administrative Keypad bassword)
4-More 8-More 3-Admin 2-SiteCode		16383 (card site code)
4-More 8-More 3-Admin 3-Account		1234 (iAM Central Station Identity)

Before the iAM has been linked to LincEZ-iAM setting are listed below:

End of Manual June 2005