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CompX Database & Network Configuration & Installation Manual

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Other manuals available as separate pdfs:

- CompX eLock Manual Programming Guide
- CompX LockView Software Instruction Manual

INTRODUCTION

An authorized Operator of LockView[®] can create a database of users and locks on a local or networked computer. Each user in this computer's database is assigned to a slot in each lock to which they have access. A lock's internal memory is divided into 3000 slots that store user information thereby giving each lock a maximum of 3000 users.

The computer with LockView[®] loaded onto it has the ability to connect to locks (directly, through a USB cable or through a computer network, using Ethernet or 802.11g Wi-Fi) and update the lock's memory to correspond with its own database. It is able to gather and manipulate a lock's audit trail, or past operation log. Audit trail information contains the lock's name, the name of the user attempting to gain access, the credential used, if access was granted or denied, and the date and time of each interaction.

LockView 5/5Pro works with LockServ to communicate with locks. LockServ has the ability to communicate with multiple locks simultaneously over a computer network, eliminating the need for the Operator to visit each lock to update the lock's database, or download audit trails.

Alternately, LockServ can communicate with locks using a USB cable if network hardware is not available.



INSTALLATION REQUIREMENTS

Networked Installations

Minimum system requirements:

Vista, 7, 8, 8.1, 10, Server 2008/2012/2016/2019 and R2 versions.

4GB RAM - Processor 2.0 GHz or higher. (8GB recommended)

4GB Hard drive space

SQL Server Standard, Enterprise, or SQL Express 2008/2012/2014/2016/2017/2019 and R2 versions. If installing LockView on the Microsoft SQL Server please follow Microsoft SQL's minimum requirements

ODBC connection required to Server

Local Administrator Rights are required to install and register the software.

.Net 4.0 Client Framework

Minimum monitor resolution: 1024x768

Signed 32 bit and 64 bit WHQL drivers.

Supports both 32 and 64 bit Operating Systems Compatible with VMWare

Network System Definition

LockView software and eLock are "on-site" devices that work through the facility's internal network

Connect One standard 802.11 b/g wireless module or Lantronix 10/100 mbps Ethernet Module.

RedPine wireless modules will be used in future products which will support 802.11 b/g/n/a with 2.4ghz and 5ghz antenna's.

Non-Networked Installations

LockView will use an Access DB by default. .NET 4.0 or higher is required. Minimum monitor resolution: 1024x768 Optional – SQL Server 2008 or better (Express versions ok). Follow LockView Client Install (in table above) for non-networked installs.

Common Install for Non-Networked (Stand-Alone) Installations

- Laptop with LockView installed.
- When LockView is installed it automatically creates an Access database
- The USB cable must be attached to a laptop and to the lock to make changes to lock or database.
- Backup of Access DB is HIGHLY RECOMMENDED.

Wireless security protocols supported: WEP 64-key WEP 128-key WPA-PSK (TKIP) WPA2-PSK (AES) WPA-TKIP Enterprise* WPA-AES Enterprise* WPA-AES Enterprise* (skip RADIUS cert verification) WPA-AES Enterprise* (skip RADIUS cert verification) *EAP-TLS or PEAP-MSCHAPv2

Anticipated bandwidth traffic:

In typical applications, with a 25 event audit trail and 4 user updates, the total transmission size would be approximately 20 kb (equal to a small email).

Frequency of check-in is user defined. Factory default is set at twice daily (or every 12 hours).

IP address Information:

eLocks – DHCP or static IP address Server – static IP address

INSTALLATION REQUIREMENTS continued

If SQL is used, refer to the following 'Common Install for Networked Installations' list.

<u>Common Install for Networked Installations:</u>

- Server/PC with SQL Server and setup to be the LockView Server and a laptop with LockView Client Installed.
- Backup of SQL Server is HIGHLY RECOMMENDED.

Note:

- Network module of lock must be programmed to point to the IP address of the computer with LockView Server (LockServ) installed.
- LockView Server computer must have a static IP address.
- All LockView Clients must also be able to connect to the LockView SQL DB through ODBC.
- Network Modules need to be setup/changed with the USB cable. This is the main reason a laptop with LockView Client is required. See pages 36-41 for setup.
- There should only be one computer set up to be the LockView Server.
- There should only be one LockView SQL Database.

How the Network Modules work with SQL and LockView.

- The Network Modules must be setup to communicate with the Server through its IP Address. This can be set in LockView with the USB cable in the LockView Settings menu.
- The Server IP Address programmed in the network modules is the computer that is set up to be the LockView server.
- LockView Server installs a service that runs automatically called LockService.
- LockService must be running on the LockView Server for the Network Modules to update to the Database.
- LockView Clients install the same LockServ. LockServ runs only when the LockView program is running.
- LockView must have a valid ODBC setup to the SQL database to connect.

On the computer configured with Microsoft SQL Server Management Studio, go to **Start - All Programs** - Microsoft SQL Server - open Microsoft SQL Server Management Studio

1. Select the SQL Instance where the **IvServer db** will be installed.



2. Click File - Open - File



3. Navigate to the script "lvServer_dbCreate.sql" (on the install cd and (once installed) can be found typically at C:\Program Files (x86)\LockView5\SQL Script) then click **Open**

Ve Open File	_	23
🚱 🕞 🗢 📔 « Windows7_OS (C:) 🕨 Program Files (x86) 🕨 Lockview5 🕨 Sql scripts 🔹 🗸	Search Sql scripts	Q
Organize New folder	:==	• 🔟 🔞
Name Name Name LV5_DbCreate_151213.sql	Date modified 12/15/2015 3:42 PM	Type Microsoft SQL S
Image: Sector (ct) Image: Sector (ct)		
		Þ
File <u>n</u> ame:	All Files (*.*) <u>O</u> pen ▼	▼ Cancel

4. Click **Execute** – Be sure that 'master' is the db selected in this box.



5. After a few seconds, the script runs and (1 row(s) affected) messages will be displayed. Click F5 (to refresh the screen)

•		DATADACE []	-401 CET ANGT MULLS OFF	•
b N	Messages			
(1	row(s)	affected)		1
(1	row(s)	affected)		
(1	row(s)	affected)		
*				

 Steps 6 and 7 allow the service 'LockService' to run properly due to it running as 'Local System' by default. 'Local System' does not have access to the database by default.

Grant db_owner Privileges to NT Authority\ SYSTEM

- Expand Security, Expand Logins, and right-click 'NT Authority\SYSTEM'
- Select 'Properties'



7. Select 'User Mapping'

Select 'LockView5' or the database that was created if changed from default Select 'db_owner' Click 'OK' to Save the changes

Login Properties - NT AUTHO	RITY\SYST	EM						
Select a page		🗙 🖪 Help						
🚰 General								
Server Roles								
Securables	users mapped to this login:							
Status	Мар	Database	User	Default Schema	^			
		emc			=			
		lita						
		llu	NT AUTHORITY\SYS	dbo				
		LockView			(
		Lock View5	NT AUTHORITY\SYS	dbo				
		LockViewStest						
		Iomalvserver042215	NT AUTHORITY\SYS	dbo				
		Ivserver042315	NT AUTHORITY\SYS	dbo	(-			
		Ivserver41	NT AUTHORITY\SYS	dbo				
	Database	e role membership for: Lock	View5					
Connection	🔲 dhi ar	- ·						
Server: MJENSEN-NB\SQLEXPRESS	db_ba	ackupoperator atareader						
Connection:	db_da	atawriter dladmin						
	dbd	enydatareader						
View connection properties	db_de	enydatawriter						
-	db_o	wner						
Progress	v public							
Ready		-						
				ОК	Cancel			

Note: If Steps 6 and 7 do not work for your environment you can also change the 'Logon Account' to the Service 'LockService' to an Account that has db_owner privileges to the database if desired.

LockService Properties (Loc	cal Computer)
General Log On Recov	ery Dependencies
Log on as:	
Local System account Allow service to intervice to intervice to intervice.	eract with desktop
This account:	Browse
Password:	
Confirm password:	
Help me configure user ad	count log on options.
	OK Cancel Apply

- 8. Grant DBO privilege to database and required users
 - Expand Security and right-click "Logins." Select "New Login"



9. Create the login as needed under the "General" tab

Select a page	🖾 Script 🔻 🛐 Help		
Server Roles User Mapping Securables Status	Login name: Windows authentication		Search
	SQL Server authentication		
	Password:		
	Confirm password:		
	Specify old password		
	Old password:		
	Enforce password policy		
	 Enforce password expirat 	tion	
	User must change passw	vord at next login	_
	Mapped to certificate		-
	Mapped to asymmetric key		-
Connection	Map to Credential		- Add
Server: MJENSEN-NB\SQLEXPRESS	Mapped Credentials	Credential Provider	

- 10. Select "User Mapping"
 - Check the box next to the LockView database that was created with the SQL script
 - Check the box "db_owner"
 - Click "OK" to save the user
 - Repeat steps 9 and 10 for all users that will need access to the database

Select a page	Script 🔻 🛐 Help						
Users mapped to this login:							
Securables	Map Database	User	Default Schema				
Status	emc			=			
	lita						
	llu llu						
	LockView						
	LockView5						
	LockView5test						
	lomalvserver042215						
	Ivserver042315						
	Ivserver41			-			
	IvServer431trihealth						
	Guest account enabled for: Lo	ckView5					
Connection	Database role membership for: Loo	ckView5					
Server: MJENSEN-NB\SQLEXPRESS	db_accessadmin db_backupoperator db_datareader						
Connection:	db_datawriter						
FORT\mjensen	db_ddladmin db_denydatareader						
View connection properties							

11. Right Click on the Server\(Instance Name) - Click Properties

😓 Microsoft SQL Server Management Studio			
File Edit View Tools Window Co	mmunity Help		
🔔 New Query 📑 📴 🚰 🦪 🦛			
Object Explorer			
Connect • 📑 📑 👕 🖉 🛃			
ELOCK_VISTASP1\LOCKVIEW (SQL Ser	ver10.0.1600 - FORT		
🕀 🣴 Databases	Connect		
🕀 🚞 Security	Disconnect		
Server Objects	Register		
Eplication Management	New Query		
	Activity Monitor		
	Start		
	Stop		
	Pause		
	Resume		
	Restart		
	Policies		
	Facetr		
	Start PowerShell		
	Reports +		
	Refresh		
	Properties		
٠ [

12. Select **Connections** and Check the box "**Allow remote connections to this server**." Click **OK**. Close out of the Microsoft SQL Management Studio

Server Properties - ELOCK_VI	STASP1\LOCKVIEW
Select a page	Script - P Help
General Memory Processors Security Connections Database Settings Advanced Permissions	Script ➤ Li Help Connections Maximum number of concurrent connections (0 = unlimited):
Connection	Remote server connections
Server: ELOCK_VISTASP1\LOCKVIEW Connection: FORT\elockhd	Allow remote connections to this server Remote guery timeout (in seconds, 0 = no timeout): 600 600 Require distributed transactions for server-to-server communication
Progress	
Ready	<u>Configured values</u> <u>Running values</u>
	OK Cancel

13. Open SQL Server Configuration Manager



14. Be sure that SQL Server (Instance Name) is enabled and running. Start Mode should be Automatic for SQL Server.

🚡 Sql Server Configuration Manager 👘 👘 👘 👘 👘					
File Action View Help					
SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit	Name	State Running	Start Mode Automatic	Log On As NT Service\MSSQL	Process ID 3104
 SQL Native Client 11.0 Configuration (32) SQL Server Network Configuration Protocols for SQLEXPRESS Protocols for MSSQLSERVER Protocols for SQLEXPRESS2 Protocols for SQLEXPRESSTEST SQL Native Client 11.0 Configuration 	 SQL Server (SQLEXPRESS2) SQL Server (SQLEXPRESSTEST) SQL Server (MSSQLSERVER) SQL Server Agent (SQLEXPRESS) SQL Server Agent (SQLEXPRESS2) SQL Server Agent (SQLEXPRESS2) SQL Server Browser SQL Server Agent (MSSQL SERVER) 	Running Running Stopped Stopped Stopped Running Stopped	Automatic Automatic Automatic Other (Boot, Syste Other (Boot, Syste Automatic Other (Boot, Syste	NT Service\MSSQL NT Service\MSSQL NT Service\MSSQL NT AUTHORITY\NE NT AUTHORITY\NE NT AUTHORITY\NE NT AUTHORITY\NE NT AUTHORITY\NE.	3044 3096 4204 0 0 0 4588
			otner (boot, system		4

15. Click on SQL Server Network Configuration, click on 'Protocols for (Instance Name).' Enable TCP/IP, Named Pipes, and Shared Memory.

🚡 Sql Server Configuration Manager			
File Action View Help			
🗢 🔿 💆 🗐 🥝 🐼			
SQL Server Configuration Manager (Local)	Protocol Name	Status	
 SQL Server Services SQL Server Network Configuration Protocols for LOCKVIEW Protocols for SQLEXPRESS Protocols for JENSEN SQL Native Client 10.0 Configuration 	Shared Memory Named Pipes TCP/IP	Enabled Enabled Disabled	

16. Open SQL Native Client 10.0 Configuration, Click Client Protocols, enable Shared Memory, TCP/IP, Named Pipes. Close out of SQL Server Configuration Manager.

📸 Sql Server Configuration Manager				
File Action View Help				
🗢 🎓 🞽 🖾 🖓				
SQL Server Configuration Manager (Local)	Name	Order	Enabled	
SQL Server Network Configuration	Shared Memory	1	Enabled	
- Protocols for LOCKVIEW	A TCP/IP	2	Enabled	
 Protocols for SQLEXPRESS Protocols for JENSEN SQL Native Client 10.0 Configuration Client Protocols Aliases 	VIA	3	Disabled	

INSTALL LOCKVIEW 5/5PRO

Note: The person installing LockView must have ADMINISTRATIVE RIGHTS on the computer where LockView will be installed.

Insert LockView 5 USB drive

If the LockView Software did not autorun:

- Select Windows **START** button in bottom left corner of screen.
- Select RUN
- Select BROWSE
- Look in the appropriate USB Drive
- Select the "Autorun.exe file"
- 1. Install Shield will prepare to install.





2. Click Next





 Read agreement, if acceptable, click *I accept the terms in this* agreement, then click Next

5. Click Next

(It is not recommended to install LockView at different locations other than the default.)





 Select 'Install LockView Server' for server install and "Install LockView client" for client install, then click Next.

Note:

- If this is a Standalone or MS Access installation, select Install LockView Client.
- LockView Server should only be selected if this is the main lock server.
- There should only be one LockView Server for Networked installs.
- Multiple LockView Clients maybe installed.
- Non-Networked installs only require LockView Client

7. Click Install

뷶 LockView 5 Pro - InstallShield Wizard	٢
Really to Install the Program KVIEW 575 Pro	
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:	
Install LockView Client	
Destination Folder:	
C:\Program Files (x86)\Lockview5\	
InstallShield <u>< B</u> ack Install Cancel	

8. Installation begins

📸 LockView	5 Pro - InstallShield Wizard
	LockView _{575Pro}
Installing	LockView 5 Pro
The program	n features you selected are being installed.
15	Please wait while the InstallShield Wizard installs LockView 5 Pro. This may take several minutes.
	Status:
InstallShield —	
	< Back Next > Cancel

9. Click Finish

😸 LockView 5 Pro - InstallShield Wizard 🛛 🔀			
Install Complete!			
LockView5/5Pro			
NOTE: If you are upgrading from Lockview 4.5, the next steps are outlined in the document 'Importing a LockView 4 database into LockView 5.pdf' This document is located in the Lockview5 program files folder and at www.compxelock.com/			
NOTE: If you wish to import a database that is earlier than 4.5 contact techsupport@compx.com or call 847.752.2525 (8 a.m. to 5 p.m. Central Mon-Fri).			
The InstallShield Wizard has successfully installed LockView 5 Pro. Click Finish to exit the wizard.			
InstallShield			
< Back Finish Cancel			

Continue to document: Configure LockView for SQL (pages 30-35)

Or

Configure LockView for Access (pages 28-29)

- 11. Restart computer.
- 12. After the reboot is completed below is the LockServ Icon that will appear in the toolbar.

*

If LockView was installed as a Server, LockServ will run as a service and the icon will always be present. If LockView was installed as a Client, the LockServ icon will only be displayed when LockView is open.

SOFTWARE LICENSING - REGISTRATION WIZARD

 If connected to the internet or have email on the computer, please click on "Online Activation." If not, please call the CompXTechnical Support Line 847-752-2525 between 8 am and 5 pm Monday - Friday and have the USB drive, serial number and Site Code available.

B LockView Software Licensing	×
Status: This program is not registered	Online Activation
Site Code: 9B1E 34B5 574C 2E0D 5A Site Key:	Validate
Please register this copy of Lock View. Your options: • Click 'Online Activation' above Use the internet or email to register in moments • Contact Support (8 a.m. to 5 p.m. Central Mon-Fri) Call 847.752.2525 to obtain a Site Key • Initiate 14 day trial Try Lock View free for 14 days	
Activate 14-day Trial	Close

Note: Enter Serial Number exactly as it appears on the sticker. **You must include the spaces** (ie. 1234 5678 9012 not 123456789012)

LockView Registration Wizard			
	Type the serial number EXACTLY as it appears on the sticker. * NOTE: YOU MUST INCLUDE THE SPACES BETWEEN NUMBERS. Example: 1234 5678 9012 The Serial Number is on a Green or White Sticker on the CD Case.		
	<u>Serial number</u> 1234 5678 9012		
Cancel	< Previous <u>N</u> ext >		

2. LockView Registration Wizard – Please enter the 12 digit serial number located on the back of the LockView CD case. Spaces are required. Click Next

LockView Registration Wizard				
	Please fill out the following form. Fields marked with (*) are required. Yo information will be securely encrypted before being sent.			equired. Your
	First name: * Last Mike Jens	name: * sen	Company: CompX	
	Address: * 715 Center St	/	Additional address:	
	City: * Grayslake	(Country: * United States	•
	Postal code: * 60030	F	Province/State: * IL Illinois	•
\$	Email address: * mjensen@compx.com			
Ť	Phone number: 8477522525	Fax numb	er:	
<u>C</u> ancel	< <u>F</u>	Previous	<u>N</u>	ext >

3. Please fill out the Registration information. Fields with an * are required.

LockView Registration Wizard			
	Thank you! You have completed your authorization request. Your software will now be automatically enabled. Press "Finish" when you are ready to continue.		
	Einish		

4. Once the registration information is finished, the wizard will attempt to connect to the internet and register the software. If the software was registered successfully the following screens will appear.

💩 LockView Software I	icensing	
Status:	ully licensed	Return License
Site Code: Site Key:	6C45 72E3 98BF 9125 6D	
This copy of LockView is pr If you would like to transfer instructions to obtain a new	operly licensed. his software to another computer click 'Return Site Key.	License' and follow the
		Close



5. If an error is received the LockView Server could not be reached. An email can be sent to register LockView. Click OK on the Error message and the wizard will attempt to send an email to the Registration Server.

LockView Registration Wizard			
	The Wizard will now attempt to send your authorization request. In most cases, your request can be sent over the internet automatically. However, if you have tried the automatic send method before and it did not work, select "Manually send email" below.		
Cancel	< Previous Next >		

Click Next



6. Click Yes when prompted to allow an email to be sent.

Microso	oft Office Outlook	×	
⚠	A program is trying to automatically send e-mail on your behalf. Do you want to allow this? If this is unexpected, it may be a virus and you should choose "No".		
	Yes <u>No</u> <u>H</u> elp		

Click Finish to close the LockView Registration Wizard.

LockView Registration V	Wizard
The second secon	Thank you! You have completed your authorization request. Your request will be processed and replied to immediately, 24 hours a day. If your request is approved, the reply will contain an authorization code that will enable your software. Further instructions will be in the email reply you will be receiving very shortly. Press "Finish" when you are ready to continue.
	<u>Einish</u>

7. An email will be sent the registered email address.

Copy the Site Key from the email and paste into the Site Key field within the LockView Software Licensing screen.

🐱 Casper License - Message (Plain Text)	
Elle Edit View Insert Format Iools Actions Help	
🕴 🚑 Reply 🖓 Reply to All 🚔 Forward 🛃 🐚 😼 🔻 🍅 💾 🗙 🔺 - 🔹 A* 🦉) <mark>-</mark>
From: casperweb Sen	t: Tue 11/23/2010 2:52 PM
To: Mike Jensen	
Cc: Subject: Casper License	
Thank you for registering your LockView Software. Please copy the key below and paste it into the LockView Site Key location. Then click the Validate button to complete the Registration process. Your site key is OFEO 041B 45FF C836 5F2C 1849 50	
	>

LockView Software Licensing	×			
Status: This program is not registered	Electronic Registration			
Site Code: E2AE 73BC 2616 BE47 63 Site Key: 0FE0 041B 45FF C836 5F2C 1849 50	Validate			
Please register this copy of LockView. Your options: * Electronic Registration Use the internet or email to register in moments; * Contact Support Call 847.752.2525 to obtain a Site Key; * Initiate 14 day trial Try LockView free for 14 days.				
Activate 14-day Trial	Close			

Click Validate to ensure the software is properly licensed.

LockView Software	Licensing	×
Statu:	s: fully licensed	Return License
Site Code: Site Key:	E2AE 73BC 2616 BE47 63 0FE0 041B 45FF C836 5F2C 1849 50	
This copy of LockView is If you would like to transfe instructions to obtain a new	properly licensed. r this software to another computer click 'Return w Site Key.	License' and follow the
		Close

NOTE: If it becomes necessary to transfer the license to a different computer, a new Site Key will be required. Click on Return License to initiate this process.

CONFIGURE LOCKVIEW5 FOR MS ACCESS (STANDALONE)

1. Double click the shortcut **LockView5/5Pro** icon found on the desktop.



2. Click Yes



3. Click the down arrow next to Create/Edit DSN and Select Lockview5/5Pro.Click OK.

Select or Create a new LockView ODBC	Entry		×
Existing ODBC Data Source Names		-	Create/Edit DSN
Lockview5 Refresh List	ОК	Cancel	

CONFIGURE LOCKVIEW5 FOR MS ACCESS (STANDALONE) cont.

4. LockView will now open. Login using the default username and password.

Operator Name – admin **Password** – admin

Click OK

lockView - Login
Log in to: Lockview5
Operator Name: admin
Password: ****
OK Cancel

CONFIGURING LOCKVIEW FOR SQL

Note: For standalone install with Access database, go to page 28.

1. Double click the shortcut **LockView5** icon found on the desktop. If using Windows 7 or Windows Server 2008, right click and select "**Run As Administrator**."



2. Click Yes



3. Click Create / Edit DSN



4. Click the System DSN tab then click Add

Note: If opening the ODBC manager manually, you must use the 32 bit version found under C:\Windows\SysWow64\ odbcad32.exe

ODBC Data Source Administrator	-			×
User DSN System DSN File DSN	Drivers	Tracing	Connecti	on Pooling About
System Data Sources:				
Name	Driver		*	A <u>d</u> d
Lockview5-Lockview5	Microso	oft Access	Driver	Remove
LockView-LockView	Microso	oft Access	Driver	Configure
LockView-LockView test	Microso	oft Access	Driver	
LockView-LockView2	Microso	oft Access	Driver	
LockView-LockView3	Microso	oft Access	Drive	
LockView-nemours	Microso	oft Access	Drivei 🔔	
I = 1.\A M= 4k	M:	A A	P	
An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.				
ОК		ancel	Дрр	ly Help

5. Select SQL Server, then click Finish

	Name Microsoft ODBC for Oracle Microsoft Paradox Driver (*.db.) Microsoft Paradox-Treiber (*.db.) Microsoft Text Driver (*.txt; *.csv) Microsoft Text-Treiber (*.txt; *.csv) Microsoft Visual FoxPro Driver Microsoft Visual FoxPro-Treiber SQL Server SQL Server SQL Server Native Client 10.0	2 4 4 4 1 1 2 2 2
--	---	---

6. Enter in the following information

 Name:
 LockView5 LockView SQL DB
 Description:
 LockView db
 Server:
 (Server Name)\(Instance Name)

Note: For Lockview5/5Pro to read an ODBC source it **MUST START EXACTLY WITH [LOCKVIEW5-] – NO BRACKETS**. LockView SQL DB is an example; any name may be used, provided it starts LockView5-.

Then click Next

Create a New Data Sourc	to SQL Server	x			
	This wizard will help you create an ODBC data source that you can use to connect to SQL Server.				
	What name do you want to use to refer to the data source?				
	Name: lockview5lockviewSQLdb				
	How do you want to describe the data source?				
	Description: Lock View db				
	Which SQL Server do you want to connect to?				
	Server: MJENSEN-NB\SQLEXPRESS	•			
Finish Next > Cancel Help					

7. Verify settings, then click Next

Create a New Data So	Urce to SQL Server How should SQL Server verify th With Windows NT auther With SQL Server authenti entered by the user. To change the network library us click Client Configuration.	e authenticity of the login ID? ntication using the network login ID. ication using a login ID and password ed to communicate with SQL Server,
Serve	Connect to SQL Server to ob additional configuration option Login ID: elockhd Password: < Back Next :	Client Configuration Itain default settings for the ns.

8. Select "Change the default database to" then from the drop down box, select IvServer, then click Next.

Create a New Data Source	e to SQL Server
	 ✓ Change the <u>d</u>efault database to: LockView5 ✓ Attach database filename:
	Create temporary stored procedures for prepared SQL statements and drop the stored procedures: Only when you disconnect. When you disconnect and as appropriate while you are connected. Use ANSI quoted identifiers.
	✓ Use <u>ANSI nulls</u> , paddings and warnings. Use the <u>f</u> ailover SQL Server if the primary SQL Server is not available.
	< <u>B</u> ack Next > Cancel Help

9. Click Finish

Create a New Data So	игс	e to SQL Server 🛛 🔀
Selact a driver ro	Г	Change the language of SQL Server system messages to:
me Access		English
off about Excel [Г	Use strong encryption for data
M prosoft Four	•	Perform translation for character data
Start Para	Г	Use regional settings when outputting currency, numbers, dates and times.
Sal Serve	Г	Save long running queries to the log file:
al al		C:\DOCUME~1\elockhd\LOCALS~1\Temp\QUER Browse
		Long query time (milliseconds):
	Г	Log ODBC driver statistics to the log file:
		C:\DOCUME~1\elockhd\LOCALS~1\Temp\STAT Browse
		K K K K K K K K K K K K K K K K K K K

10. Click Test Data Source

ODBC Microsoft SQL Server Setup	x
A new ODBC data source will be created with the following configuration:	,
Microsoft SQL Server ODBC Driver Version 06.01.7601	*
Data Source Name: lockview5lockviewSQLdb Data Source Description: LockView db Server: MJENSEN-NB\SQLEXPRESS Database: LockView5 Language: (Default) Translate Character Data: Yes Log Long Running Queries: No Log Driver Statistics: No Use Regional Settings: No Prepared Statements Option: Drop temporary procedures on disconnect Use Failover Server: No Use ANSI Quoted Identifiers: Yes Use ANSI Quoted Identifiers: Yes Use ANSI Null, Paddings and Warnings: Yes Data Encryption: No	
	Ŧ
Test Data Source OK Ca	ncel

11. Click **OK**

Close all open Windows

SQL Server ODBC Data Source Test	
Test Results	
Microsoft SQL Server ODBC Driver Version 03.85.1117 Running connectivity tests Attempting connection Connection established Verifying option settings Disconnecting from server TESTS COMPLETED SUCCESSFULLY!	
OK	2

12. From the desktop, launch LockView5 Click Yes



13. From the dropdown list select 'lockviewSQLdb' or whatever the DSN was named in step 6. Lockview5/5Pro in this example is the default Access Database that was created with Lockview5/5Pro Install.

\$	Select or Create a new LockView ODBC Entry	x
I	Existing ODBC Data Source Names	Cuesto /Edit
	lockviewSQLdb	DSN
	Lockview5	
	lockviewSQLdb	4
_		

- 14. Login using default username and password: **Operator Name** = admin **Password** = admin
 - Click OK.

lockView - Login	×		
Log in to: lockviewSQLdb			
or select another:			
lockviewSQLdb 🗨			
Operator Name: admin			
Password: *****			
OK Cancel			

SETTING UP THE NETWORK MODULE

The following information is required to setup the network module.

- The IP Address of the LockView Server
- The SSID of the wireless access points on the network where the system is being installed (if using 802.11g wireless module)
- The type of wireless security enabled on the wireless access point, as well as the password/encryption key

To verify the IP address of the LockView 5 Lock Server, follow the steps below:

1. Go to Start - Run on the Lock Server computer.

lockhd	
Internet	My Documents
E-mail	My Recent Documents
	My Pictures
WordPad	My Computer
Lockview 4.0	Control Panel
😏 MSN	Set Program Access and Defaults
Command Prompt	Printers and Faxes
Windows Media Player	🕐 Help and Support
S Windows Messenger	Search
All <u>P</u> rograms	<u>Run</u>
	Opens a program

2. Type **cmd**, then press **OK**



3. Type ipconfig



4. Write down the IP Address for the Lock Server computer, then close this cmd window



5. Attach a USB cable to the eLock and to a USB port of the computer.

 If the 'Found New Hardware Wizard' starts, click Next The USB Driver should be installed during LockView install. If needed for reinstall, the drivers can be downloaded at http://compx.com/lockview/drivers.html

Found New Hardware Wizard			
	Welcome to the Found New Hardware Wizard This wizard helps you install software for: uElock		
	If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do?		
	 Install the software automatically (Recommended) 		
	C Install from a list or <u>specific location</u> (Advanced) Click Next to continue.		
	< <u>Back</u> <u>N</u> ext > Cancel		

7. Click Finish



8. With the USB cable attached, the Read / Write Lock icon turns Green. Click Settings.

4/7/2016 11:52 AM admin

 If the lock has a network module and it needs to be configured, click Wireless Module Configuration. If the lock has a CAT5 Ethernet and it needs to be configured, click Ethernet Module Configuration.

For this example a Wireless Module using DHCP and WPA2 is being set up:

Note: the lock must be in the database to configure the lock and network module. Please see page 17 in the LockView Software Instruction manual.



10. For this example, DHCP is selected. Alternately, a static IP address can be assigned to each lock. Extreme care must be used to ensure unique IP addresses.

Enter in the SSID of the wireless network or Click 'Available SSIDs' to search.

Enter the Lock Server IP address (obtained on page 37)

Enter the TCP/IP port number of 4308

Select and enter the appropriate Wi-Fi security protocol and password.

Wireless Module Configuration		
Displaying: Most Recently Sa	wed Settings	Help
Connection Parameters		
Lock Parameters LAN / S	erver Parameters	
OHCP Lock	Server IP: 10 90 103 64 TCP/IP Port:	4308
C Static IP		
Wireless Access Point Parameters	(2010 :=	
Security Type:	(SSID is case sensitive) SSID: CompX-II Availa	ble SSIDs © 2.4 GHz
C None		© 5.0 GHz
C WEP 64-key	WPA2 PSK (AES) Settings	
C WEP 128-key	Pre-shared Key (PSK)	
C WPA-PSK (TKIP)	•••••	
WPA2-PSK (AES)		
C WPA-TKIP Enterprise*		
O WPA2-AES Enterprise*		
C WPA-TKIP Enterprise* (skip Root CA verification)		
C WPA2-AES Enterprise* (skip Root CA verification)		
Show Last Saved Settings Module Settings	Save Settings to Module Test Connection Fim	nware Exit

11. Once all settings have been entered, click **Save Settings to Module**.

The software will then connect to the lock. This is noted by a status bar near the bottom of the screen as well as the connection status will change in the upper right corner of the window.

12. If using Enterprise Security with Certificates, please reference the Certificate Help Page.

LockView Certificate Help	<
General requirements: -PEM format required (Base64 encoded) -Multi-Cert files may be used but only the first certificate of the file is loaded -Private Keys must be in PKCS#1 (RSA) encrypted format -Username Examples: username@fqdn, domain\username -Domain\Username is Required when using Enterprise Security. The domain\username should match the username within the certificate (if using certificates) -Root Server Certificate is REQUIRED (if using Root Server CA); Subordinate CA certificates are not acceptable	,
Details: -A Cert's data consists of BEGIN and END lines, plus what lies between -The first line of a Cert begins with 'BEGIN' -The first line of a Private Key begins with 'BEGIN RSA' -Both end with a line which starts with 'END' -Any lines outside of the first detected BEGIN and END lines are ignored. -Each line must be delimited by one or more of <cr>, <lf> and/or SPACE</lf></cr>	
OK	

NETWORK TOOLS

LockView is provided with a set of network tools to help diagnose network / IP address / Wi-Fi / Database problems. To use, click on Settings:

LockView v4.3 DE	MO Dec 10, 2010 - CK OFF - eLock4 Server	. . .
File View Window He		
Lock/User Editor	General Database	
Read/Write Lock	(* mm/dd/yy Auto-Refresh Screens C dd/mm/yy Notify of Un Sync'd Locks Startup Mode Force Unique Dual Pin	
Notifier	C Wizard Mode C Manual Mode Network Tools	
Temperature	Wireless Module Configuration Ethernet Module Configuration	
Settings	Lock Server Activity Monitor LockServ Server Port: 4308	
Wizards	OK Cancel Apply	
Database RK	Connected to new memory : In Sync	12/15/2010 8:47 AM
🛃 start 🔰 🙆	🞯 🗿 🎽 🞯 I 🔤 R 🐻 M 🌈 I 🎓 C 🞯 D 🦉 yu 🎓 \ 🙈 L 📑	7%) 🖝 《 🕱 🛛 🖬 8:47 AM

With the USB cable attached to the laptop and the eLock, select the type of Network Module provided - Click either:

- Wireless Module Configuration

(In this example Wireless Module Configuration is chosen) To use network tools on a lock with a wireless module

- OR -

- Ethernet Module Configuration

To use network tools on a lock with an Ethernet module

Displaying: Most Rece	ntly Saved Settings	Help
Connection Parameters		
Lock Parameters	LAN / Server Parameters	
DHCP	LockServer IP: 10 90 103 64 TCP/IP Port: 4308	
C Static IP		
Vireless Access Point Parameters	(SSID is case sensitive)	Frequency Band
Security Type:	SSID: CompX-IL Available SSIDs	C 50 GHz
C WEP 64-key	WPA2 PSK (AES) Settings	
C WEP 128-key	Pre-shared Key (PSK)	
C WPA-PSK (TKIP)		
WPA2-PSK (AES)		
C WPA-TKIP Enterprise*		
O WPA2-AES Enterprise*		
C WPA-TKIP Enterprise* (skip Root CA verification)		
C WPA2-AES Enterprise* (skip Root CA verification)	λ.	
Show Last Show Current	Save Settings to The Show Module	.

At the bottom of the screen above, there are the following options.

- Show Most Recent Settings Shows the most recent settings that were saved to a module.
- Show Module Settings Connects to the Wireless/Ethernet module and displays current settings.
- **Test Connection** Runs various tests to confirm that the current settings are able to connect to the network, the Lock Server, and the database. It will also show the currently assigned IP Address and MAC Address of the module.
- Save Settings to Module Allows changes to be saved to module.

Test Connection

- 1. With a lock connected through USB, click on **Test Connection** within **Wireless/Ethernet Module Configuration**
- 2. A Connection Status window will pop-up and start communicating with the module

🗑 Connection Status	
Parameter	Status
SSID Validation	???
IP Assignment	???
LockServer PING	777
LockServer Communication	???
Database Connection	???
Firmware Version ??? MAC Address ???	
Lock IP Address	
Server IP: ???	Port: ???
Retest	Close
Set LAN module to comr	mand mode

3. A pop-up then requests that the USB cable is disconnected. Press the 'NETWORK' button located on the front of the lock to initiate a network connection and lock update.



4. Once the "NETWORK" light has stopped flashing on the keypad display, reconnect the cable and hit 'OK.'

If there is a failure at any time, click "**Analyze Failure**" for possible solutions to the problem.

 If a test fails, select 'Analyze Failure.' Below is a list of possible problems and what to check:

Update Issue

What went wrong: The database did not update when the lock called in. What to check: Ensure the databases selected here and on the server are the same.

Missing Records

What went wrong: The database does not contain data for this lock. What to check: Ensure the databases selected here and on the server are the same.

Communication Glitch

What went wrong: Data was lost or corrupted during communication with the lock/module.

What to check: This is not a network issue, but an internal dataflow error; ensure cabling is intact and try retesting.

Socket Issue

What went wrong: The wireless module could not open a TCP socket to the server.

What to check: First, retest; failing that, ensure the server is configured to accept incoming connections on the designated port.

PING Issue

What went wrong: The server did not respond to a PING from the module. What to check: First, retest; failing that, ensure the module was programmed with the correct server IP.

Server Undefined

What went wrong: The server IP and Port parameters are not known. What to check: Verify this module has been programmed. If so, the programming may have failed to take. Return to Configuration screen, 'Save Settings to Module' again, and ensure the save reports success.

DHCP Issue

What went wrong: The module did not get an IP dynamically assigned. What to check: First, retest; failing that, re-evaluate the module settings; it was not able to gain network access.

🗑 Connection Status		
Parameter	Status	
SSID Validation	Pass	
IP Assignment	Pass	
LockServer PING	Pass	
LockServer Communication	Pass	
Database Connection	Pass	
Firmware Version		
ID807b06 31.5.20	10	
MAC Address		
0019881FF355		
Lock IP Address		
192.168.15.29		
(Dynar	nic)	
Server IP: 10.9.2.118	Port: 4308	
Retest	Close	
*** All Pass! ***		

LockServer Activity Monitor

Once locks are setup properly they 'check-in' to the lock server through the Activity Monitor.

Click 'LockServer Activity Monitor'

The LockServer Activity screen will pop-up.

General	Database
Date Format mm/dd/yy dd/mm/yy	T Auto-Refresh Screens
Startup Mode	🗖 Force Unique Dual Pin
Network Tools Wireless Module Configuration	Server Settings Maximum Simultaneous Updates:
Ethernet Module Configuration	Alter LockServ Port
_ACTIVITY MONITOF	LockServ Server Port: 4308

LockServer Activit	ty			
Lock Connections				
Minimum Pers Lock Name	sist Time (1 to 60 seconds) 10 Lock Serial Number			
L9768	000000094389778			
Server IP: 192.1	68.15.5 Server Port: 4308			
Change Server IP : Port	Close Viewer			

As locks connect to the lock server, their lock name and serial number appear in the window.







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