

Access Control Qscan

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Access Control Qscan

License – Maintenance Agreement

The use of this software requires a Vermont Systems license and annual maintenance agreement. Prior to implementing any process outlined in this document, please contact the Vermont Systems Sales department at 877.883.8757 or by email (<u>sales@vermontsystems.com</u>) to verify that you are authorized to use this software or to obtain a quote and approval.

Pre-Installation Checklist

This checklist defines the Customer's and Vermont Systems' respective responsibilities when installing the Vermont Systems Access Control system. Because access control hardware can vary, you must consult with an electrician that specializes in circuit design and installation. You will also need to work with your Information Technology (IT) staff to discuss running CAT5e/6 cable to the access point(s). In addition, you must decide where the access control scanners will be located and how you will mount them.

Complete the fill-able form .pdf checklist that follows, and return it to Vermont Systems.

Since access control readers are custom made, we will not order the readers until the checklist is received. The Vermont Systems section lists Vermont Systems' responsibilities; after reading and understanding each item, check the box next to that item. The Customer's Responsibilities section lists your responsibilities; check the box next to each item to acknowledge assuming responsibility for that item.

If you have any concerns or questions, contact Vermont Systems Customer Service via phone at 877.883.8757 or open a case in the <u>Vermont Systems Support portal</u>.



Your Name:	
Your Organization:	
Date:	
RecTrac Version:	

Access Control Checklist - Vermont Systems Responsibilities

Check the box next to each item to acknowledge having read and understood it.

- Vermont Systems provides the software that interprets a scan and allows access if the scan is valid.
- Vermont Systems will provide technical assistance to your chosen electric circuit and cabling installer.
- Vermont Systems will encode the Qscan device with an IP address after discussing configuration options with your IT department.
- Vermont Systems will configure the Qscan (if using this option) to ensure that bar codes read correctly.
- Vermont Systems provides phone-assisted or on-site configuration of the RecTrac access control software as quoted.

Access Control Checklist - Customer Responsibilities

Check the box next to each item to acknowledge having read and understood.

- The customer will install and mount all hardware for the access control system, including the following:
- Order Qscan devices a minimum of 4 weeks in advance of installation.
- Install door strike/maglock or turnstile.
- Install Qscan near the access control point, where your customers can reach it.
- Complete the connection between the Qscan and the door strike or turnstile. An electrical contractor must design and physically complete this connection. If the door strike or turnstile does not have a built-in MOV (metal oxide varistor), the electrical contractor will need to build one into the circuit. If not using a Power Over Ethernet (PoE) Standard Smart JX, and the power to the contacts is greater than 30VDC and or greater than 500mA, the contractor will have to design the circuit with an additional relay between the Qscan and the door strike or turnstile.
- Obtain an updated diagram that outlines the circuit between the Qscan and the door strike or turnstile. Go to the International Bar Code (IBC) website (www.interbar.com) and click the support link. In the wiring category, download the PDF labeled SA/STA reader wiring (with RS232 or RS422 interface).

• Provide one 120VAC power outlets. The Qscan must be plugged into a 120VAC power outlet. In addition, provide any power required by your turnstile or door strike.

Notes: If using a Power over Ethernet Hub/Switch and PoE Standard Qscan or PoE Non-Standard Qscan, a power outlet is not needed for the scan devices.

100 Meters MAX distance communication using Ethernet cabling.

If using an Intelligent POE Switch device, it could extend the distance up to 200 meters.

• Connect CAT 5e/6 cable between a network hub/switch and the Qscan,.

As soon as all the connections have been made and power is supplied to the access point and the Qscan, the customer must notify Vermont Systems so that a <u>Connectivity Test</u> can be performed approximately 4 weeks prior to your "live" date.

It is necessary that all access points are tested and pass the test. If you decide not to configure the software using phone training and you are planning on having a Vermont Systems installer on site, travel will not be arranged until all access points pass this test. If a Vermont Systems installer is on site for the purpose of configuring your access device(s) software and wiring is incorrect and/or the test fails, the customer is responsible for all expenses incurred by that installer (e.g., time and travel).



Configuring a Qscan Device

- **1** Download the Ibctcp44 utility.
 - Open a web browser and go to <u>http://www.interbar.com</u>. Click on the Software link.
 - Click on the **Ibctcp44** link and save it to a local folder.
 - When the download completes, browse to the location where you saved the lbctcp44.zip file and unzip it. The zip file will extract a setup.exe file.
 - Right-click on the setup.exe and *Run as Administrator*.
 - Follow the on-screen instructions during the installation process. This will install the lbctcp44 software on your computer.
- 2 If you are installing multiple devices, prepare an organized listing of IP addresses and locations that correspond to each device. After configuring each device, be sure to label each clearly.
- **3** To begin the configuration in Windows, go to Start Programs IBC. Run the Ibctcp44.exe utility program. You will see screens similar to the following screens, though IP Address, Port and other information may vary.

📦 IBC Tcp/ip Utility V2.1					_0
Local Network Search		Connect to reader op	perating as a Server		
Wide Network Search	IP Address	192.168.1.55	Control Port Number	87	
Program Reader	Port Number	5/	Passwuru		_
Server Connect	Connect	Discon	t Status inected	Disconnect	
Client Connect					
Udp Connect					
Flash Reader					
		Use the F10 key to	send a NULL character		
				Clear Scree	n

IBC Tcp/ip Utility V2.1				_ O ×
Local Network Search		Search for Readers on	a Local Network	
Wide Network Search	IP Address	Mac Address	Reader Identification	Ctl Port
Program Reader	192.0.10.91	00 12 78 00 00 OB	ibc reader	87
Server Connect				
Client Connect				
Udp Connect				
Flash Reader				
	F1 Start Sea	urch Dblclick on a rea	der to program it Reso	olve Dup
	To resol	ve a duplicate IP, click on the r	eader and then click on "Resolve I	Dup"

- 4 Click Local Network Search. Press F1 Start Search. You should see the default IP address of the Qscan, the MAC address of the reader, the Reader Identification and the Ctrl Port.
- 5 Double click on the first device listed. This will display the Program Reader screen.
 - Click Get Parameters.

Note: If unable to connect to Qscan, go to Unable to Connect to Qscan During Setup.

IP Address 192.0.10.72	Program Read	er		
Get Parameters	Control Port	arameters	word 111	111 Reboot
Reader IP Address	192.0.10.72	Mode	Server	🗌 Client 🔽 Udp
Reader Data Port (tcp) Reader Data Port (udp)	57	Speed	10hd	☐ 10fd ☐ 100hd ☑ Auto
Reader Control Port Reader Subnet Mask	87 255.255.0.0	Dhcp	🖂 On	✓ Off
Reader Gateway Address Server Address	192.0.0.7	Password Required	Tes Yes	₩ No
Server Port	57	Use 2 Servers Client send id	TYes	III. ✓ No
Server Address 2 Server Port 2		Udp send id	Ves	No No
Identifier Password	ibc reader 7000	Phy Monitor Keep Alives	[0n [0n	Off Off
Mac Address UDP Log Address (FP)	0012780004A9	Mult Connect	T Yes	T Ho
UDP Log Port (FP)		Firmware Versio	on: 04.30	D
	Reader IP Address Reader Data Port (tcp) Reader Data Port (tdp) Reader Control Port Reader Control Port Reader Gateway Address Server Address Server Port Server Port Server Port Server Port 2 Server Port Server Port 2 Server 2 S	Reader IP Address 132.0.10.72 Reader Data Port (tcp) 57 Reader Data Port (tdp) 53002 Reader Control Port 87 Reader Gateway Address 132.0.0.7 Server Address 132.0.5.219 Server Port 57 Server Port 2 57 Identifier Ibc reader 7000 Password 0012760004A3 UDP Log Address (FP) 101216004A3 UDP Log Port (FP) 101216004A3	Reader IP Address 192.0.10.72 Mode Reader Data Port (tcp) 57 Speed Reader Data Port (udp) 55002 Speed Reader Control Port 87 Dhcp Reader Gata Way Address 192.0.0.7 Password Required datass 192.0.5.213 Use 2 Servers Server Address 192.0.5.213 Use 2 Servers Server Port 57 Client send id Server Port 2 Udp send id Udp send id Identifier jbc reader 7000 Phy Monitor Password Keep Alives Mult Connect UDP Log Address (FP) Inactivity Timer Firmware Versic	Reader IP Address 192.0 10.72 Mode Server Reader Data Port (tcp) 57 57 59ed 10hd Reader Data Port (udp) 53002 59ed 10hd 100rd Reader Data Port (udp) 53002 Dhcp 0 n Reader Control Port 67 Dhcp 0 n Reader Gateway Address 192.0 5.218 Use 2 Servers Yes Server Address 192.0 5.218 Use 2 Servers Yes Server Address 2 1 Client send id Yes Server Port 2 Udp send id Yes Identifier bc reader 7000 Password 0 n Mac Address 0012760004A3 Mult Connect Yes UDP Log Address (FP) Firmware Version: 04.3 Inactivity Timer 1 Connected Speed: 04.3

- 6 Change the *Reader IP Address*, the *Reader Subnet Mask* and the *Reader Gateway Address* (if applicable) to values determined by your Network Administrator. Enter a unique name in the *Identifier field* to identify this specific Qscan.
- 7 Set the Operating Mode to "UDP."
- 8 Set the Speed to "Auto."
- 9 Set the UDP send id option to "Yes."
- **10** Ensure that the IP Address in the *Server Address* field is NOT the same as the IP Address in the *Reader IP Address* field.
 - This ip should point to the server that will be running access control, whether it is the local machine or whether it is hosted in another location. It should not be the same as the reader address.
- 11 Click Set Parameters. Once the new parameters are saved, you will receive the following message: "New Parameters have been set – You must Reboot (or repower) the reader for the new parameters to take effect."

Click OK.

12 Click Reboot. Click OK.

Note: In the event this does not work, you can power-cycle the Qscan physically by unplugging the Ethernet cable, waiting a few seconds and plugging it back in.

- **13** If using bar code access control, configure the Qscan by swiping the set % preamble found in the Qscan Series commands document (as well as in <u>the Connectivity Test</u>). An audible signal confirms that the bar code has been read and the device has been properly configured.
- **14** Repeat steps 6–13 for each Qscan device.



Qscan Hardware Installation

- 1 All CAT 5e/6 cable and power supplies should be installed and tested prior to installing the access control hardware.
- 2 Install the door strike(s) or turnstile(s).

Note: Vermont Systems strongly recommends connecting and testing all devices prior to permanently securing the devices to their final positions.

- 3 Install the Qscan near the access control point where your customers can reach it.
- 4 Connect CAT 5e/6 cable between the network hub/switch and the Qscan device. If using a PoE Standard Qscan or PoE Non-Standard Qscan, be sure to connect the CAT5e/6 cable to the powered ports on the PoE Hub/Switch or Power Injector.
- **5** Connect power to the Qscan device.

Note: This step is not necessary if using a PoE Standard or a PoE Non-Standard Qscan.

- 6 Complete the connection between the Qscan and the door strike or turnstile.
 - An electrical contractor/engineer must design and physically complete this connection.
 - If the door strike/turnstile doesn't have a built-in MOV, the electrical contractor will need to build one into the circuit.

Note: If using a PoE Non-Standard or a Non-PoE Qscan and if power to the contacts is greater than 30VDC and or greater than 500mA, the contractor will have to design the circuit with an additional relay between the Qscan and the door strike or turnstile.

- 7 After all the connections have been completed and power has been supplied to the access point and the SQscan (if required), the customer must notify Vermont Systems so that <u>the Connectivity</u> <u>Test</u> can be performed.
 - This test must be completed approximately four (4) weeks prior to your live operation date.
- 8 If you are installing weatherized units outdoors, be sure to seal the back side of the unit to the mounting plate using silicon caulking, such as 3M 5200 or Life Caulk. This will ensure that water or moisture doesn't cause damage to the internal wiring. The Qscan is delivered sealed.



Access Control Diagrams

Qscan with Built-in NIC Diagram



PoE Isolated Relay ("Standard") Qscan with Built in NIC Diagram

(Also Applies to 7000 RIB)





This is a diagram for the qScan as of 04/10/2013. Please refer to www.interbar.com to verify wiring diagram.











Qscan Mounting Template



Qscan Command Response

If using Qscan bar code access control, configure the Qscan by scanning the % UX0460 command response found in the Qscan Series commands document.





Connectivity Test

This test is required to ensure connectivity has been established outside of the RecTrac application prior to implementing Access Control from within it

IBC TCP Utility V4.4

Run the test using the IBC TCP Utility.

- 1 In Windows, go to Start Programs IBC, to run the IBC TCP Utilit V4.4. It will open to the UDP Connect page.
- 2 Change the IP Address to match the Qscan device you are testing.
- 3 Ensure the Receive Port Number is "57" and Data Port Number is "53002" at the defaults, unless you changed them during initial set up. Click Listen. The Current Status should change to "Connected."
- 4 You should be able to swipe or scan your access card at the device location. The card number will display in the white box below in red, followed a carriage return (hex 0d).
- 5 Send commands directly to the device by typing the commands on the left into the white screen. The results on the right should occur.

Command	Result
]00 <carriage return=""></carriage>	Green Light On
[00 <carriage return=""></carriage>	Green Light Off
}00 <carriage return=""></carriage>	Red Light On
{00 <carriage return=""></carriage>	Red Light Off
!15 <carriage return=""></carriage>	Relay On
* <carriage return=""></carriage>	Relay Off

6 The commands will show in black as you type. You can enter them one after the other or use the Clear Screen button at the bottom to start fresh before each one.



BC Tcp/ip Utility V4.4	
Local Network Search Wide Network Search Program Reader Server Connect Client Connect	Connect to reader operating as a Server IP Address 192.0.10.73 Control Port Number 87 Port Number 57 Password Connect Current Status Disconnect Connected
Udp Connect Flash Reader	7 0 0 5 3 2 3 φ _p] 0 0 φ _p [0 0 φ _p] 0 0 φ _p { 0 0 φ _p { 1 5 φ _p * φ _p
	Use the F10 key to send a NULL character
	Clear Screen



Access Control Setup for RecTrac

Perform all steps in this section on the workstation from which you will be processing Access Control.

Note: Any file paths and screen/tab locations in this document refer to file paths and screen/tab locations as they appear in the standard, default Vermont Systems design. Your setup and Design may vary.

Ensure VIC is Installed

To operate Access Control, Vermont Integration Client (VIC) must be installed on the workstation from which you will run Access Control.

By default, a VIC profile should be linked at the Default Level of Hierarchy in RecTrac. To utilize this profile, you would install VIC as a Service on the Access Control Workstation.

Optionally, you can use the VIC.exe installation and link a separate VIC profile at the Workstation Level of Hierarchy on the workstation running Access Control. Running Access Control as both an executable and a service. The Qscan is configured to send data to the Workstation that has the server address that was entered in parameters using the TCP/IP Utility.

Refer to VIC Installation with Windows Installer for step-by-step installation instructions for VIC, if necessary.

Create an Access Control Workstation

- 1 In RecTrac, search for and go to Workstation Management. Click Add to add a new workstation. You will continue to the Workstation Update Core Settings screen.
- 2 In the *Workstation Name* field, enter the workstation name exactly as it is identified in the Ttcp/ip Utility. Vermont Systems suggests copying the identifier field into the workstation name in RecTrac.
- 3 Enter a Description.
- 4 Click Save. Exit back to the main RecTrac menu.



Create and Link an Access Profile

1 Search for and go to Profile Assignments. Click Add to add a new profile.

Profile Add/Update		
Profile Code * ①	Profile Type * 🕕	
Access	Access	\$
Profile Subtype * 🚯	Status (j)	
Access	\$ Active	\$
Profile Description (j)		
Access IBC 7000		

- 2 Enter a *Profile Code* to describe the profile that is being configured with Access Control.
- 3 Expand Profile Type and select "Access."
- 4 Select the Default Subtype.
- 5 Enter a *Description*.
- 6 Click Create. You will continue to the Profile Update screen.

Linter For Smartj and other IBC devices	
Start UDP Listening (Smart) Devices) Uster on UDP Port	
Latern For M25pc Devices	
Start M25ys Literning (All M25ys Devices) ①	
Listen For Input Profile Devices	
Listen To Input Profiles Linked to The Following Virtual Workstations (Workstation Name must be in the format Name:ComX) ()	r ^a
Access Control Monitoring	
Workstation Monitor List ① /richards-1100	^R a
Access Control Service/Eve Startup Configuration	
Configure Service For Access Control DELETE Service Configuration For Access Control DELETE Exer Configuration For Access Control	
() Configuration of the service/exe must be run when connecting to VIC on the machine to be running the service/Exe. Registry changes, requires VIC to run as Admin User)	

- 7 Enable the *Start UDP Listening* option.
- 8 Accept the default entry for *Listen on UPD Port* (57) or overwrite as needed. This is the server port on the TCP/IP Utility.
- **9** On the **Access Control Monitoring** group, select the workstations that will be viewed in the Access Control Monitor program. Traffic from workstations not in this list will not appear in the Visits DataGrid in the Access Control Monitor.



- 10 Click Save. You will be returned to Profile Assignments.
- **11** In Profile Assignments, link this Access profile at the Workstation Level of Profile Hierarchy, to the workstation from which Access Control will be run. This should be the workstation on which you just performed these steps.
- **12** While logged into RecTrac on the machine designated to run Access Control, and while successfully connected to VIC, select the Access profile and click **Update**.
- 13 Click the "Configure" button at the bottom of the screen that matches your VIC installation (Configure Service for Access Control or Configure EXE for Access Control). The process will run automatically.
- 14 Click Continue when prompted.
- **15** Exit completely out of RecTrac. Do NOT save the session.
- 16 Close your web browser.
- 17 Exit the VIC and restart it.
- **18** Log back into RecTrac on the workstation.

Create and Link an AccessRelay Profile

- 1 In RecTrac, search for and go to Profile Assignments. Click Add to add a new profile.
- 2 Enter a *Profile Code* for your Access Relay profile.
- 3 Expand *Profile Type* and select "AccessRelay."
- 4 Expand SubType and select "SmartJ."
- 5 Enter a Description.
- 6 Click Create. You will continue to the Profile Update screen.



Profile Add/Update		
Profile Code * ()	Profile Type * 🕕	
Access Relay SmartJ	AccessRelay	\$
Profile Subtype * 🚯	Status ()	
SmartJ	\$ Active	\$
Profile Description (j)		
Access Relay SmartJ		
Enter The IP Address of the SmartJ Relay ()		
192.06.123.47		
SmartJ UDP Port 🕕		
1500		
Allow Manual Override (j)		
Pulse Pattern is For Green Light, Actuate Relay For Entire Length of Pulse Pattern (
Valid Entry Pulse Pattern (j)		
3000,2000,3000,2000		
InValid Pulse Pattern (Red Light Only) 🗓		
2000,1000,2000,1000		
Save Cancel		

- 7 Enter the *IP Address* of the Qscan relay. This is the IP address that you assigned to the Reader using the TCP/IP Utility.
- 8 Enter the UDP Port that you assigned to the Reader in the Qscan Reader Data Port (UDP) Port field.
- **9** Select the *Allow Manuel Override* option if users will be allowed to manually open the Access Point via the Access Control Monitor program.
- **10** Select the Pulse Pattern is for Green Light, Actuate Relay for Entire Length of Pulse Pattern option.
- 11 Enter your Valid Entry Pulse Pattern and Invalid Pulse Pattern values.
- This is the time value in milliseconds for which you wish the Relay to toggle "on." For example, a flashing pattern 1000, 2000,1000,2000,1000; would equate to 1 second on, 2 seconds off, 1 second on, 2 seconds off, 1 second on
- 12 Click Save. You will return to Profile Assignments.
- **13** Link the AccessRelay profile at the Workstation Level of Hierarchy to the Access Control Workstation you created above. Repeat this step for each Access Point being setup

Create and Link a Visit Profile

Starting at Step 7, these steps need to be updated to reflect the new Visit Profile with the Access Control group. We'll need two (2) screen shots: One for the Core group (like the old one below) and one for the Access Control group. Please be sure to use the Next Gen UI.

- 1 In RecTrac, search for and go to Profile Assignments. Click **Add** to add a new profile.
- 2 Enter a *Profile Code* for your Visit profile.
- 3 Expand Profile Type and select "Visit."



- 4 Expand SubType and select "Visit."
- **5** Enter a *Description*.
- 6 Click Create. You will continue to the Profile Update screen.

Profile Update				i?×
Profile Add/Update				^
Profile Code * ① Visit Profile Subtype * ①		Profile Type * () Visit Status ()		:
voit Profile Description () Walt	•	Active		
Process Type () Attended Valid Pass Lite () (PGLSFam, Fandler, URVsch, AU,T Structent, JACST, Arie[) () Dopbay Photos in Desadlind ()	Location Code () Rec Center Daily Pass List: () ResAdutDaily,HR5huithDaily,HR5eniorDaily,ReyYouthDaily Length in Minutes to keep Images Visible in Visit Datag 10	o ⁿ 1y,ResSeniorDaily,PoolDay,TrackDail o ⁿ 1y127 ()	Linked Laston Cafes () Prompt for Daily Visit with Invalid pass () Display Visit Date Field ()	*
Vas Purpose List () Fitness,Track a ^N Display Member Passes as Buttons ()	Allow Multiple Visit Purposes () Search for Current Quick Rentals ()		Require Valt Purpose () Do Not Create Zero Fee Vist Receipts ()	
Attended/Manual Member Lookup/Manual Visit Completion Options				•
backungungunges Lontrol visit Uptions Class Visits				•
Capacity				•
Miscellaneous				
Auto Advance				0
Save Cancel				

- 7 Open the *Visit Pass List* and select the Pass Codes that will be valid for this location.
- 8 Open the *Daily Pass List* and select the Daily Pass Code(s) that will be valid for this location:
- **9** Open the *Location Code* and select the Facility Location at which you will be processing Access Control.
- **10** Expand the **BackGround/Access Control Visit Options** group and enable the *Select First Valid Pass* option.

BackGround/Access Control Visit Options				
① These settings are used whenever a scan occurs and the workstation is Incomplete. Please note that when the user selects the visit and clicks to as well.	setup with an Input p he 'Complete Visit' but	rofile configured for use with Visit Processing. In this setup, Attended and Un ton to complete it, RecTrac will be looking at the Attended group to determin	attended mode have no bear ne what prompts will appear.	ing. RecTrac will look at these testings to determine if the visit will have prompts, and thus be given a status of Workstations setup with an Input profile that is configured for Rectrac Focus Field' will use the Attended mode settings
Select First Valid Pass ()		Allow Class Drop Ins with Daily Visits ()		Update Guest Count 🚯
Activity Visit Options ()		League Visits 🕥		
Both	\$	No	\$	Prompt for Visit Purpose ()
Display Photo ()		Use Family Member Swipe In Logic?		Auto Complete Default: ()
Prompt for Renewal On Expired Passes (3)		Display All Passes Including Daily Passes		Hide Notifications? ()
Display Pick-up Photos on Member Sign-Outs				

11 Expand the **Miscellaneous** Group, and open *Access Ticket Daily Pass List*. Select the Pass Codes that will be valid for this location. Likely this will be the same list of passes as you entered in the *Daily Pass List* above.



12 Open *Access Control Monitor Manual Override Pass List* and select the Pass Code that will be used when you click the manual override buttons in the Access Control Monitor. If you do not have a generic Daily Pass for this function, you can create one.

M	Aiscellaneous						۵
W	/aiver Code		Access Ticket Daily Pass		Access Control Monitor Manual Override Pass		
		n ⁷⁰	TrackSwipe	°,	ManualGate	с ⁷	

- **13** Fill in the remaining fields as necessary. Generally speaking, options for Prompts should be disabled. Use the Help icon for field level definitions, if needed.
- 14 Click Save when ready. You will be returned to Profile Assignments.
- **15** Link the Visit profile at the Workstation Level of Hierarchy to the Access Control Workstation you created above.

Assigning Profiles

- **1** Access Relay and Visit profiles should be linked to the Access Control Workstation you created above.
- 2 Access and VIC profiles should be linked to the workstation on which you are processing.

Access Control Daily Processing in RecTrac 3.1

Note: Access Control does not require a login to function. So long as VIC is running on the designated machine, Access Control will function.

- 1 To monitor swipes at the Access Points, log into RecTrac on the workstation that Access Control is using to process requests. This is the workstation to which you linked the Access and VIC profiles.
- 2 To view Access Visits, search for and go to Access Control Monitor.
- **3** Manual override for the profiles linked in the Access Profile should be displayed, as well as a DataGrid that displays recent Visits.

Verify that 3.1 Displays the Photo

If selected, the *Display Photos* option on the Access device will display an individual's photo (if a photo has been captured) for the person swiping into the access control point).

Access Central Monitor															
Manual Swipe Entray															
ID Swipe	Swpe														
L															
Manual Override															
Last Entry Member Photo															
Options 🗸 (0) 🤇	Refresh						Visits							1 to	o 1 of 1
Photo	Transation Lo Hi	H ID	Tran Date	Tran Time	File Link Code 1	First Name	Last Name	Begin Date	End Date	Status	Current Receipt	Pass No	Punches Left	Visit Count	G
	58	5	08/20/2015	11:03	BCAAR	Grace	Somersby	08/20/2015		Swiped In	1558	102	0.00		1
1 to the															
											<u> </u>				
100-	120 All														
an															
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C W		18 -													
		T													
	192108/6		shitter ×												Ľ



Troubleshooting

No Success with Connectivity Test

If you are unable to connect to your Qscan via the IBC TCP Utility V4.4, check the following setup configurations. You should not be connected to VIC while performing the following steps.

- 1 From a DOS command prompt, attempt PINGing the device. If you are successful, unplug the CAT5e/6 cable from the Qscan device and PING again. If you are still able to PING the IP, that specific IP is in use elsewhere on your network. You must configure the device with a different IP address.
- 2 Via the lbctcp44 configuration software, verify that the correct IP addresses are assigned to each device.
- 3 Ensure the IP of the device and the IP of your machine are in the same Subnet mask.
- 4 If you are using a firewall client software, it must be disabled when attempting to connect to the device.
- 5 You cannot have an open connection to the Qscan device within RecTrac. Make certain all other connections to this device are closed.
- 6 Once you can connect to the device, verify the connection with the test text files as explained in the <u>Connectivity Test</u> section. Also, make sure the card gets read (you get a beep) when swiping. If these tests do not work, there is a problem with the physical setup.

Other Problems

If you still cannot connect to the Qscandevice, below are more items to check.

- **1** Test the power to the Qscan.
- 2 Test CAT5e/6 cable to ensure it is working and functional. To test this, bypass the installed CAT5e/6 cable and run a temporary CAT5e/6 cable from the switch/hub to the Qscan. Test again. If this works, your installed cable is bad. If it does not work, the problem lies elsewhere.

Unable to Connect to Qscan During Setup

- 1 Highlight the Qscan you are trying to configure and click the Resolve Dupe button.
- 2 Enter the Qscan's new IP address and click Next.
- 3 Enter the Qscan's new subnet mask and click Next.



- 4 Enter the Qscan's password: 11111 and click **Next**.
- 5 The Qscan will reboot.
- 6 Return to <u>Configuring a Qscan Device</u>.

UDP Mode Returns OK and Flashes Red

Vermont Systems has found that some qScan units will start flashing red at seemingly random intervals when set to UDP mode, The units will read a card (you will see the visit in RecTrac), but the qScanwill flash green only for an instant. If you experience this:

- 1 Launch IBC 4.4.
- 2 Search for the Reader and double click on it.
- 3 Click Get Parameters.
- 4 Change the *Mode* to "Server."
- 5 Click Set Parameters.
- 6 Click Reboot.
- 7 Click on Server Connect on the left.
- 8 Enter in the readers IP address in the *IP Address* field, *Control Port Number* of "87" and a *Port Number* of "57." Click **Connect**.
- 9 Current Status should change to "Connected."
- **10** In the middle of the screen, there is a white box, click on it once to make sure the window is in focus and do the following (these are zero's):
 - X0460(Enter Key)
- 11 There should be no response at all when you press <Enter>.
 - If there is then something is wrong. Make sure the "X" is a capital and that there are no spaces in the command.
 - Repeat until there is no response then go to Step 12.
- 12 Click Disconnect.
- 13 Go back to the search and double click on the Reader again.
- 14 Click Get Parameters.
- 15 Change the *Mode* back to "UDP."
- 16 Click Set Parameters.
- 17 Click Reboot.

Electric Strikes vs. Magnetic Locks

Magnetic Locks

All magnetic locks (aka: mag locks) will work with DC current only, usually 12 to 24 volts, so never connect a magnetic lock to AC current at any voltage.

All magnetic locks are fail-safe, which means that they need a constant source of power to remain locked. If power is removed, the lock will open.

All mag locks are silent even when powered and locked. Electricians recommend at least 1200 pound pull magnetic locks for normal sized doors.

Caution is recommended regarding use of magnetic locks with respect to fire and smoke safety. Always check Local Authority Having Jurisdiction (LAHJ) during installation planning.

Electric Strikes

Electric strikes are often used for "buzz in" type systems. They can be 12, 24, or even higher voltage and they can take AC or DC current or some both.

They may be fail-safe or fail-secure. A fail-safe electric strike needs power to keep it locked, whereas, a failsecure strike remains locked even without power.

Fail-secure is the most common type used. A fail-secure strike remains locked from the outside even if no power. For egress or getting out, a door knob or lever on the lock allows for safe exit.

If you need the "buzzer" sound, select an AC strike and AC power source or transformer. If you do not want the "buzzer" sound, select a DC power source or transformer. The DC strike is almost silent when it releases, except for a slight "click" sound.

If you want to use a DC strike or magnetic lock, but still want the "buzzer" sound, you can connect a tiny buzzer in parallel between the power supply and the electric strike or magnetic lock to make buzzer sound when the lock releases.