SK-NETTM Operating & Installation Guide Version 5





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1. INTRODUCTION

1.1 What is SK-NET[™]?

SK-NET[™] is a Windows[®] based software program designed to monitor and control networks of Secura Key 28SA-PLUS access control units or Secura Key SK-ACP 2-door control panels.

1.2 SK-NET™ Versions

SK-NET™ Download Version & SK-NET-DM (CD-ROM w/Manual)	Basic SK-NET [™] for one location and a single workstation. A single LAN Connection is now supported.
SK-NET-MLD (CD-ROM w/Manual)	Upgrade version supports multiple locations and multiple connection groups of readers. Also enables connection(s) via dial-up modem and TCP/IP (LAN).This version is designed to run on a single workstation. Badge Printing capabilities are also included.
SK-NET-MLD-CS_ (CD-ROM with Manual)	All the features of SK-NET-MLD, plus multiple workstations . Licenses are available for 2, 5, 10 or 15 users. Client/ Server software features five password-protected levels for program access.

1.3 Computer system requirements

Workstation (Client) Minimum Requirements:

Windows® XP, 32 bit1 GHz, 1 GB RAM, 1 GB Disk Space*Windows® Vista, 32/64 bit 1 GHz, 1 GB RAM, 1 GB Disk Space*Windows® 7, 32/64 bit1 GHz, 1 GB RAM, 1 GB Disk Space*

Recommended System:

Windows[®] 7, 64 bit 2 GHz, 2 GB RAM, 10 GB Disk Space (Larger systems may not run properly at the minimum requirements.

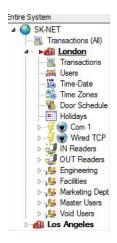
Server Minimum Requirements (For Client/Server Versions):

Windows[®] 2003 or greater 2.0 GHz, 1 GB RAM, 1 GB Disk Space^{*} (For SK-NET-MLD-C/S version a server is required to install ADS and the database).

* For larger systems more disk space may be required. SK-NET™ must be installed on a workstation only.

Required Peripherals: RS-232 COM Port or TCP/IP, CD Drive (unless software is downloaded), a modern if you use dial-up and a printer for reports.

1.4 How is SK-NET™ organized?



Transactions show all events that have occurred at the readers and in the system. **Users** includes a list of all the cards in the system, along with cardholder name, access group, in/out status and other information. This is also the place where you add new cards or change cardholder privileges. The tree view on the left shows the layout of the system, including readers, access groups, reader groups, holiday schedules, time zones, etc. Any changes to the system are started here.

To read a comprehensive description of SK-NET[™] features, see **Appendix A.** SK-NET[™] uses many common Windows functions. For tips on navigating in Windows[®], see **Appendix B.**

2. GETTING STARTED

2.1 Site Plan

- Make a site plan. List each opening where a reader is to be installed. Note the serial number of the SK-ACP panels and/or 28SA-PLUS units for each opening. (NOTE: A reader connected to the right side of an SK-ACP panel (J5) is serial number –1, the left side (J6) is serial number –2).
- 2. Install all readers and/or panels following the provided instructions. Be sure to use the type of wire specified. Do not apply power or connect the RS-485 bus until all components are installed.
- 3. Connect the RS-485 bus to one SK-ACP or 28SA-PLUS at a time. Hold the white reset button in for three seconds after applying power, then release it.
- 4. Once a panel or 28SA-PLUS is powered, the LED on the reader will begin flashing alternately RED and GREEN (for Secura Key readers). Present a sample card to the reader while it is flashing. This sets the correct facility code in the memory and the flashing will stop after 10 seconds.



NOTE: A 28SA-PLUS can learn up to three facility codes. An SK-ACP can learn up to 16 facility codes. To add facility codes, push the reset button, then present a sample of each facility code to the reader while the LED is flashing RED/GREEN.

2.2 Connecting SK-ACP panels and/or 28SA Plus card readers to the computer

There are four ways to connect a gateway to your location on the computer(s) where SK-NET[™] will be running:

- RS-232. Connect the COM port of a PC to the RS-232 connection of one panel or 28SA-PLUS. This can be a terminal strip or an RJ-11 jack connection. (RJ11 jack recommended for laptop or temporary conection only!) RS-232 connections can be up to 100 feet and require six-conductor shielded cable (no twisted pairs). This panel or 28SA-PLUS will act as the "Gateway" to any other linked panels or 28SA-PLUS units.
- RS-485. Install the NET-CONV-P into the COM port of your computer. Run a twisted pair (or CAT 5) cable to the nearest panel (or 28SA-PLUS with an SK-NM485 installed. (Newer 28SAs include an RS-485 cable). RS-485 can be run up to 4000 total feet.



NOTE: When using the NET-CONV-P you must always connect the first panel to the next in line. You cannot use a stubbed, star fanout, or "T" configuration.

- 3. MODEM. Connect the pre-configured SK-MDM 56K modem to the RS-232 port on one of the panels or 28SA-PLUS units. Connect the modem to a dedicated phone line. The modem currently being used is a U.S. Robotics model 5686e. If you want to purchase and configure your own modem, the set-up instructions are located on our website under "Tech Support, Applications Bulletins".
- 4. TCP/IP. Connect the SK-LAN device to the RS-232 port on one of the panels or 28SA-PLUS units. Connect the SK-LAN to an Ethernet jack. Follow the instructions for setting an IP address in the SK-LAN device. Newer SK-ACP panels will accept the SK-LAN-MOD plug-in network module. The SK-NET[™] connection wizard will scan the system and automatically locate each module. Basic SK-NET[™] will allow a single TCP/IP connection. Multiple TCP/IP connections require SK-NET-MLD.



NOTE: TCP/IP is the best connection method when using SK-NET[™] Client/Server versions because it enables all clients to connect to any location, one at a time.

NOTE: The MLD and Client/Server versions allow for multiple connections simultaneously to a single location. This allows for virtually unlimited number of doors (readers) within a location.

2.3 Installing SK-NET[™] on your computer or network

NOTE: If you are upgrading from a version of SK-NET[™] before 2.42, you should run the "migration tool" when prompted. This will import databases from your older version to the new version.

NOTE: If you already have a Client Server installation (versions 3.05 or earlier) and you are upgrading to SK-NET[™] version 5.00, you must also upgrade the ADS database. Contact technical support for details. SK-NET[™] Version 5.00 requires ADS Version 10.1 or greater.

Single Workstation Installation (Basic Version)

- 1. Install SK-NET[™] on your hard drive by selecting **"Install SK-NET"** from the Main Menu. Follow the installation prompts.
- 2. When asked **"Install SK-NET to:"** we recommend that you accept the default location.
- 3. When asked **"Install SK-NET database to:"** we recommend that you accept the default location.
- 4. If you have purchased SK-NET-MLD version, click on **Help**. Select **Upgrade System**. Refer to Section 4.1 for the complete registration procedure.

Multiple Locations/Connection Groups

With **SK-NET-MLD** version you can create as many different Locations and Connection Groups as you need. A Location is one or more Connection Groups consisting of SK-ACP panels or 28SA-PLUS readers that are linked together via RS-485 to operate as a unified system.

Activating SK-NET-MLD Software

When it is first installed SK-NET[™] Version 5 it runs in local mode, even if the database that is being used has been upgraded from an earlier SK-NET-MLD version. Local mode allows for a single location with a single connection group.

 To activate SK-NET-MLD in Version 5 click on Help, then Upgrade System and enter the license number that is included inside the front cover of the SK-NET[™] 5 manual.

ograde System Mode		
Local		ОК
	0	Cancel
MLD	۲	
Client/Server		Register
License Number:		
4020 - c4f9	- 016a - 1680	
Activation Key:		
	1	

- 2. After the license number has been entered you can click OK. This will start a 30 day trial period of SK-NET 5 MLD. At the end of the 30 days if the activation key has not been entered SK-NET[™] will revert to the local mode of operation.
- To fully activate SK-NET 5 MLD you must register it with Secura Key. Click on Help, then upgrade system, then click on register, which brings up the following screen (see next page). Fill in all of the fields. Required fields are marked with a asterisk (*).

ast Name*	First Name*	Phone*			
Romero Dr. Nick		805-553-8930			
email address		FAX			
drNick@letmlive.com		805-553-8931			
Address(Street, City, State, Zip, Country)*					
5555 Sequoia Ave	. Simi Valley Ca. 93063	USA			
Company Name		Serial Number (Preversion 5)			
Let'm Live Urgent Care					
Dealer Name*		Dealer Phone*			
Big Al's Lock and Key		888-999-6547			
Dealer email address		Dealer Account #			
www.BigAlsLockandKey.com		4432165			
Dealer Address(Str	eet, City, State, Zip, Co	ountry)			
42000 Roscoe Blv	d. Canoga Park, Ca. 91	311 USA			
Registation Meth	od				
By email	By Phone	By FAX			
- Required field					

4. Once you have filled in all the required information, select one of the three methods to register the software. E-mail, Phone or Fax and click OK.

Email

If you select e-mail the following screen is displayed. This is automatically generated from the information you provided at registration.

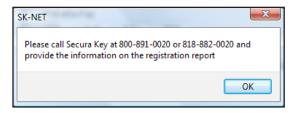
	e and mail to <u>softwareregistration@securakey.com</u> vation key will then be mailed back to you.
***	******
SK-	NET version: 5.00
Lic	ense number: 3020-c4c9-016c-1880
pc	id 1: 00:1A:A0:0D:0E:33
pc	id 2: 1018390288
Pre	vious serial number:
Las	t name: Romero
Fir	st name: Dr. Nick
Pho	ne: 805-553-8930
ema	il: drNick@letmlive.com
Fax	: 805-553-8931
Com	pany: Urgent Care
Add	ress: 5555 Sequoia Ave. Simi Valley Ca. 93063 USA
Dea	ler name: Big Al's Lock and Key
	ler account # : 4432165
Dea	ler phone: 888-999-6547
Dea	ler email: www.BigAlsLockandKey.com
	ler address: 42000 Roscoe Blvd. Canoga Park, Ca.
913	11 USA
***	***************************************
-	

- 1. Click the **Select All** button to copy all of the information Secura Key requires to register the SK-NET 5 MLD software.
- Then click the software registration e-mail address (shown at the top of the e-mail information screen) to open the e-mail program on your computer. Paste the information into your e-mail and then click Send.

If for any reason this does not work, you may manually send an e-mail to softwareregistration@securakey.com by choosing Select All and then pasting the information into your e-mail and then click Send.

Phone

If you select phone the following menu is displayed.

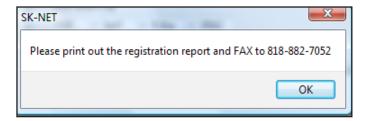


- 1. Click **OK** to bring up the registration report as shown below.
- 2. **Call** Secura Key Customer to register SK-NET-MLD and they will take your information over the phone

MLD License Number 3020-c4c9-016c-1880	Pre v5 Serial Number					
PC ID 1 00:1A:A0:0D:0E:33	PC ID 2 1018390288					
Last Name Romero	First Name Dr. Nick					
Company Let'm Live Urgent Care	Phone FAX 805-553-8931					
Address 5555 Sequoia Ave. Simi Valley Ca. 93063 USA						
email drNick@letmlive.com						
Dealer Name Big Al's Lock and Key						
Dealer email www.BigAlsLockandKey.com	Dealer Phone 888-999-6547					
Dealer Address 42000 Roscoe Blvd. Canoga	Park, Ca. 91311 USA					
n order for your SK-NET MLD Version 5 to be register shone, FAX or email. Once received by Secura Key ar	ed the above information will need to be sent to Secura Key eithe n activation key will be sent back to you to complete the registrati					

FAX

If you select FAX the following menu is displayed.



- 1. Click **OK** to bring up the following registration report as shown below.
- 2. Print out the report and fax to Secura Key at 818-882-7052.

MLD License Number 3020-c4c9-016c-1880	Pre v5 Se	erial Number
PC ID 1 00:1A:A0:0D:0E:33	PC ID 2 1018390288	
Last Name Romero	First Name Dr. Nick	
Company Let'm Live Urgent Care	Phone	FAX 805-553-8931
Address 5555 Sequoia Ave. Simi Valley Ca.	93063 USA	
email drNick@letmlive.com		
Dealer Name Big Al's Lock and Key		
Dealeremail www.BigAlsLockandKey.com	Dealer Phone	888-999-6547
Dealer Address 42000 Roscoe Blvd. Canoga	a Park, Ca. 91311 USA	
order for your SK-NET MLD Version 5 to be register	red the above information will	need to be sent to Secura Key either
one, FAX or email. Once received by Secura Key a	n activation key will be sent b	ack to you to complete the registratio
nail to: softwareregistration@securakey.com		

Once Secura Key has received this registration information and processed it an activation key will be sent back to the registered user of SK-NET-MLD Ver. 5. This activation key is valid only for the PC that the software has been registered on and will not work on any other PC. Contact Secura Key if you need to change the computer which runs SK-NETTM.

Upgrades from previous SK-NET MLD versions are available for a small processing fee. A valid serial number is required. Contact Secura Key customer service for details.

Multi Workstation Installation (Client/Server):

(See SK-NET[™] Client/Server Installation Bulletin #24)

- If you have purchased a multiple workstation client/server version, you should install Advantage Database Server on your network server first. Select "Install ADS" from the Main Menu. Follow the installation prompts.
- 2. When asked to provide **"Serial Number"** and **"Validation Code"**, you will find these on the inside cover of your SK-NET[™] manual.
- 3. Create a folder on the same drive where you have installed the ADS software. Give it a name such as "SKNETDATA". This is the file where all SK-NET[™] database files are saved.

- 4. The directory on the server where the databases are installed must be shared by the network.
- 5. After you have installed ADS on the network server, install SK-NET[™] on the client workstations. Select **"Install SK-NET"** from the Main Menu. Follow the installation prompts.
- 6. When asked **"Install SK-NET to:"** we recommend that you accept the default location.
- When asked "Install SK-NET database to:" browse to the mapped drive where you have installed ADS, and select the database folder you created.

3. QUICK START GUIDE

3.1 Starting SK-NET™

- 1. Launch SK-NET[™]. Enter Password (The default is 12345).
- 2. Right-click on Connection 1.
- 3. Select Properties from the drop-down menu.
- 4. Click on the **Connection** tab.

Properties	Connection	Readers	Cards	Configuration	Transactions
Connectio	In Options				
Connect using:		COM5 🗸			
Modem Phone #:		38400 🗸 📝 G			teway(RS-232
Modem Phone #:		Loc			cal Connect:
Host IP Address:		100.000.000).000		
Host Port:		0001			
Host Port:	1	0001			



NOTE: "This Location" is the default name of the first location in the software. You may rename Locations. In this manual we will refer to this icon as "Location".

NOTE: The Readers, Cards, Configuration and Transaction tabs will appear as shown above, once you are connected.

3.2 Finding the readers

- 1. Click the **Edit** button.
- 2. For **RS-232** connections, use the **"Connection Wizard"**. Accept the baud rate and COM port that Connection Wizard finds.
- 3. For **RS-485** connections, uncheck the **"Gateway (RS-232)"** box and use the **"Connection Wizard"**.
- For Modems, uncheck Local Connect. Select the COM Port where your modem is installed. Set the Baud rate to 38,400. Be sure the Gateway(RS-232) box is checked. Enter the modem phone number where indicated. (SK-NET-MLD version only.)
- For TCP/IP connections, select TCP/IP from the drop down list. Use the "Connection Wizard" to find all available TCP/IP connections. If you find more than one TCP/IP connection, select one. (SK-NET-MLD or Client/Server or version 4 or higher).
- 6. Click Apply, Close, and then Connect the Location.
- 7. After following the appropriate procedure from 1, 2, 3 or 4, close the Connection Group Properties box. Click on the location. Right click Connection Group and select New, then Readers and then Quick Find. (Note: If you have more than 10 SK-ACP panels (20 readers), use the same procedure, but click on Search instead of Quick Find.) Follow the prompts. SK-NET[™] will find all of the readers and bring them into the software.
- 8. After the Log-In is complete, close the Login box.

Group Properties	: New Group	
Properties Connecti	on	
Connection Options		
Connect using:	COM1	*
Baudrate:	38400 🗸	Gateway(RS-232):
Modem Phone #:		Local Connect:
Host IP Address:	000.000.000.000	Connection Enabled
Host Port:	10001	
Connection Wizard:	¥	
Connect	Edit	Apply Cancel
		<u>C</u> lose

3.3 Naming the readers

- Click on the "+" symbol (or in Vista/Windows 7 the > Symbol) next to the Connection Group. Every reader found by SK-NET™ will be listed, by serial number.
- 2. Right-click on a serial number. Select **Rename** from the dropdown menu.
- 3. Replace the serial number with the name you have selected, from your site plan. Click OK.

💯 SK-NET			10 C
File Explorer Transaction			
🍮 🖻 X X 🖸 😫	×		🐺 ଓ 🥭 🗔
Entire System			Contents of : London/
SK-NET X Transactions (All)			Name
		Print	√ ∰xx 3500007-1 √ ∰xx 3500007-2
D IN Readers		View	•
⊳ 🖓 OUT Readers ⊳ 🧏 Engineering		New	•
⊳ , <u>i</u> Facilities ⊳ , <u>i</u> Marketing Dept	X	Connect	
⊳ 🥵 Master Users	Ľ	Disconnect	
Void Users Los Angeles	Ũ	Login	
		Logout	
		Forgive	•
		Door Control	•
		Backup	
		Restore	
	~	Send	•
	×	Delete	
	-	Rename Change Icon.	
		Properties	
14:59:00.971 CH:1 000<		Pack Explorer	Database
14:59:00.971 CH:2 000< 15:00:00.836 CH:1 000<		Refresh displa	9021-033-665-965-965-965-965-965-965-965-965-965
Select name Name : Fr	ont ['oor	

3.4 Setting a latch time for a Connection Group

Out of the box, 28SA-PLUS and SK-ACP latch timers are set to one second. While this is good for gate operators, it is usually too short for electrically locked doors.

- 1. Right click on a Connection Group.
- 2. Select **Properties** from the drop down menu.
- 3. Click on the **Configuration** tab.
- 4. Change the latch timer value to the number of seconds you desire (or leave the default door setting of three seconds).
- 5. Click on **Send**. Then Click on **Close**.

Properties Connection Readers Cards	Configuration	Transactions
Configuration Limited Use Card Range: Start: 00001 End: 04000	- General Sett	Send
Oaily RAPB ForgiveTime ● Off ◯ On Hour: 00 (0-23)	Latch Timer: Timed Antipassback	3 (Seconds) 30 (Minutes)
Remote Reader Type - 28SA+ O In O Out O None	Baudrate: (Terminal)	38400 🗸
Door Schedule		Send



NOTE: This will cause every reader in the connection group to activate the latch relay for the same time. To set a different latch timer for a single reader, **See Section 5.21**.

3.5 Enrolling cards into your system

The quickest way to enroll a batch of cards is a "Block Load".

- 1. Click on **Users** at the top tool bar.
- 2. Select Add, then select Range.
- 3. Enter the lowest card number you have.
- 4. Enter the highest card number you have.
- 5. Select an Access Group for all the cards.
- 6. Click OK. (All of these card numbers are now listed.)

Use	rs Help					
3	Print	•			6	😽 Ser
÷	Add	•		Si	ngle Us	ser
	Void	•		Ra	inge	
	Modify	•	Г		Last N	lame
×	Delete	•			Chess	:
2	Find	Ctrl+F			Hamilt	ion
-	Sort	•			Decle	t
-	Filter Users		$\left \right $		Jacks Watki	
2	Refresh IN/OUT		Г		Gasol	
	Pack Database				Name	
Ē	Properties				Dange	erfield
6	Send Users (Full)				O'Lea	ry



NOTE: It is usually best to add a range of users/cards in the **Void User** group. The Access Group for each card can be changed when it is issued to a specific cardholder **(See Section 5.1)**.

NOTE: If you anticipate adding additional Locations where cardholders from the first Location may need access, you should create those Locations in SK-NET[™] before loading any cards in the first Location. For instructions in creating additional Locations **See Section 4.1**. (Multiple Locations require SK-NET-MLD version.)

3.6 Testing the system

- 1. From the **User** View, double-click on one of the card numbers you have block loaded.
- 2. In the **User Properties** box, enter a name.
- 3. In the Access Group field, select Master User.
- 4. Click **OK**.
- 5. Click the Send User Full arrow.

User Properties	
Enter	or modify user information here.
User Information First: Last: MI: Card #: Access Group: Group: Tel Ext: Dept #: Employee #:	A Master Users
User Fields ID: Title:	Details:
Vehicle Information Parking:	Color: Make:
New OK	Next>> << Last Print Cancel

You now have one card that should unlock every door and open every gate in the system. Try it out.

6. View Transactions.

Make sure that every reader you visited appears in the Transaction list.

4. CUSTOMIZE YOUR SYSTEM

4.1 Creating Additional Locations (MLD or Client-Server versions only)

Adding a new location:

With SK-NET-MLD or SK-NET-MLD-CS XX versions you can create as many different locations as you need. A location is one or more SK-ACP control panels or 28SA + readers connected together via RS-485 communications and operating as a unified system.

A new location is only required when you are connecting to a group of readers that require a different list of card users than those already being used in an existing location.

- 1. Click on the Explorer menu.
- 2. Select New.
- 3. Select Location.
- 4. Name the New Location. Click **OK**.

File	Exp	orer Transactions Users He	lp	
3	0	Print	B	母 🗸 🙆 🖪 🖽 🚍
Entire		View		Contents of : London/Users, 1
4		New	B XX	Reader(s)
	X	Connect		Connection Group
	X	Disconnect	-	Reader Group
		Login	,55	Access Group
		Logout	6 1	Location
		Forgive	•	5 Randy

4.2 Time Zones

Most installations require that you customize one or more Time Zones and then create one or more new Access Groups before issuing cards to users. This allows you to grant access to users for specific doors at specific times and days.

A **Time Zone** is a schedule that governs when a card is valid (allowed access) and when it is invalid (denied access).

Each Time Zone has a 24-hour schedule for each day of the week, as well as a 24-hour schedule for "holidays". Any date designated as a holiday will follow the holiday schedule, regardless of what day of the week it falls on.

SK-NET[™] has sixteen Time Zones. **Time Zone 0** is "Always Void". (Void Users access group). **Time Zone 1** is "Always Valid" (Masters Users access group). Time Zones 0 and 1 cannot be edited. **Time Zones 2 through 15** can be edited any way you choose.

Location Time Zones can be edited for all readers from the **Explorer/Tree View**. You can also edit a time zone for a specific reader (See Section 4.12).

In an SK-NET[™] System with multiple locations, you will have to setup **Time Zones** for each new **Location** that you create. These Time Zones can be completely different from the Time Zones in other Locations in the system.

4.3 Editing a Location Time Zone

- 1. Starting from the Tree View. Double-Click on Time Zones.
- 2. Select the Time Zone you want to edit from the drop down list.
- 3. Every square that is RED is a 1/2 hour increment when access will be denied. Every square that is GREEN is a 1/2 hour increment when access will be permitted. Click on squares to change them from RED to GREEN (or GREEN to RED).
- 4. After editing a Time Zone, click **Save**.
- 5. After saving, click **Send** to send the time zone to all of the readers.

Time zones: P	auls Loc	ation								
Time Zone	3 💙	Zone Nam	ie 3]	
Configuration										1
Sunday -	۹	1 2 3 4 5	6 7 8	9 10	11 12	1 2 3	4 5	6 7 8	9 10	1 🛞
Monday -	۱ ا	1 2 3 4 5	6 7 8	9 10	11 12	1 2 3	4 5	6 7 8	9 10	1
Tuesday -	۹ 🌒	1 2 3 4 5	6 7 8	9 10	11 12	1 2 3	4 5	6 7 8	9 10	1
Wednesday -	۹ 🌒	1 2 3 4 5	6 7 8	9 10	11 12	1 2 3	4 5	6 7 8	9 10	1
Thursday -	۱ 🔘	1 2 3 4 5	6 7 8	9 10	11 12	1 2 3	4 5	6 7 8	9 10	1
Friday -	۹ 🔘	1 2 3 4 5	6 7 8	9 10	11 12	1 2 3	4 5	6 7 8	9 10	1
Saturday -	۹ 🔘	1 2 3 4 5	6 7 8	9 10	11 12	1 2 3	4 5	6 7 8	9 10	۵
Holiday -	۲	1 2 3 4 5	6 7 8	9 10	11 12	1 2 3	4 5	6 7 8	a ko	۳
Antipassback Co	nfiguration	1	Valid Da	ates						
🔘 None	OB	eal Hard							Не	fresh
Timed Hard	OR	eal Soft		art Unre					S	ave
O Timed Soft			Begin	Date:	6/23/	2003				
Start/End Delay									S	end
Delay Start	0	(Minutes)		id Unres						All
Delay End	0	(Minutes)	End D	late:	6/23/	2003			C	lose



NOTE: To change a block of squares from RED to GREEN, hold down the CONTROL key, *click* on the first square, then *click* on the last square. The square(s) in between will also change.

NOTE: To change an entire day from RED to GREEN, *click* on the big Green button to the left. To change an entire day from GREEN to RED, *click* on the big red button to the right.

NOTE: You can change the name of a Time Zone to something that reminds you of it's function (i.e. "Day Shift" or "Cleaning Crew".

4.4 Delaying the start or end time for the half hour blocks

You may delay the start of a Time Zone, by entering a value (1-29) in the Delay Start field. This value equals how many minutes after the first GREEN increment begins when the card will become valid.

You may extend the end of a Time Zone by entering a value (1-29) in the Delay End field. This value equals how long after the last GREEN increment the card will continue to be valid.



4.5 Limiting the dates a Time Zone is active

Uncheck the Start Unrestricted box and use the calendar to select the first date the cards in this Time Zone should become active.

Uncheck the End Unrestricted box and use the calendar to select the last date that cards in this Time Zone should be valid.

🗹 Start Unr	estricted	
Begin Date:	6/23/2003	
		-111-22
🔽 End Upre	stricted	
🗹 End Unre	estricted	



NOTE: This feature is handy for clubs, gyms and other membership organizations.

organizations. **NOTE:** This feature does not apply to Time Zones 0 or 1.

4.6 Antipassback

Antipassback is a feature designed to prevent card sharing and/or to enforce use of IN and OUT readers.

Timed Antipassback does not require IN and OUT readers. After a card is used at a reader with Timed Antipassback, that card will not be valid at that reader for a predetermined amount of time (up to 30 minutes).

Real Antipassback requires readers for coming IN and going OUT. If a card was last used at an IN reader, it must be used at an OUT reader before it will be valid at an IN reader again.



NOTE: These features do not apply to Time Zones 0 or 1.

4.7 Selecting Antipassback for a Time Zone

Select the type of Antipassback you want from the list.

Hard Antipassback means the card will not be valid and an "antipassback violation" message will appear in Transactions.

Soft Antipassback means that the card will be valid, but an "antipassback violation" will appear in Transactions.

Antipassback Con	figuration	Ť
🚫 None	🔘 Real Hard	
💿 Timed Hard	🚫 Real Soft	
🔘 Timed Soft		



NOTE: Time Zones 0 and 1 cannot have antipassback.

4.8 Timed Antipassback

To set the timed antipassback time for all readers:

- 1. Right click on a Connection Group.
- 2. Select Properties.
- 3. Click on the **Configuration** tab.
- 4. Enter the number of TAPB minutes (up to 30).
- 5. Make sure the Latch Time is correct. Click on Send.

Properties	Connection	Readers	Cards	Configuration	Trans	actions
	se Card Rang					Send
Start: 0	0001 En	d: 04000		General Setti	ngs	
Daily RAF	PB ForgiveTim	e		Latch Timer:	3	(Seconds)
Off	🔘 On 🛛 Ho	ur: 00 (l	0-23)	Timed Antipassback	30	(Minutes)
Remote Reader Type - 28SA+				Baudrate:	384	100 🗸
🔘 In	🔘 Out	Nor	ne	(Terminal)		
Door Sche	edule					
Door	Schedule Disa	abled				Send

To set the timed antipassback time for a single reader:

- 1. Right click on the reader name.
- 2. Select Properties.
- 3. Click on the Edit button.
- Enter the number of TAPB minutes up to 30 minutes). Click on Send.



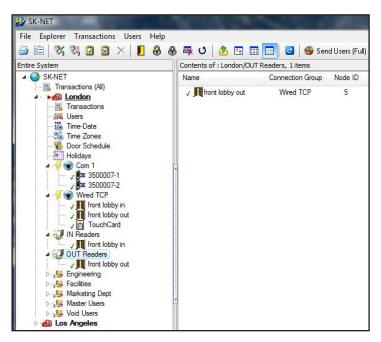
NOTE: Time Zones 0 and 1 cannot have any type of antipassback.

NOTE: To complete Timed Antipassback programming, you must create an Access Group using a Time Zones in the range 2 through 15 **(See Section 5.14)**.

4.9 Real Antipassback (RAPB)

To program **Real Antipassback** into your system, you must complete the following steps:

- 1. Select the proper antipassback configuration using a Time Zone in the range 2 through 15 (See Section 5.7).
- 2. Create an **Access Group** using a Time Zone in the range 2 through 15 (See Section 5.14).
- 3. You must define your readers as IN or OUT by dragging all of the **IN readers** into the IN Reader group and all of the OUT readers into the **OUT Reader** group.



4. If your system has more than one Connection Group, in order for RAPB to work properly, all of your Connection Groups must be connected to the system, and the SK-NET software must be running on your PC (it can be minimized).



NOTE: A Global RAPB Forgive All Command takes about ¹/₂ second per reader to process. On a 100-door system it will take approximately 50 seconds to reset Anti-Passback at all doors.

4.10 Real Antipassback Forgive

Real Antipassback Forgive resets all cards or a single card to a neutral IN/OUT status, allowing access the next time the card is used at either an IN or OUT reader. The default setting for all readers is RAPB off. You can change that to automatic RAPB forgive which happens once a day. You can also initiate RAPB forgive at any time using SK-NET[™].

To turn on/off RAPB Forgive, or to change the time setting, for all readers in a **Connection Group**:

- 1. Right Click on a Connection Group.
- 2. Select Properties.
- 3. Click on the **Configuration** tab.
- 4. Check "ON" or "OFF" for RAPB Forgive.
- 5. Enter the hour, in military time, when RAPB Forgive should activate.
- 6. Click the upper **Send** button.

To change RAPB parameters for a single reader:

- 1. Right click on the reader name.
- 2. Select Properties.
- 3. Click on the **Configuration** tab.
- 4. Click on the Edit button
- 5. Check RAPB Forgive "ON" or "OFF".
- 6. Enter the hour, in military time, when RAPB Forgive should activate.
- 7. Click Send.

Configuration	Transactions	Utilities	Service	
0	hange	Ed	it	
0	hange	Send Refresh		
C	hange			
Daily RA	NPB ForgiveTim ◯On Hou		-23)	

4.11 Unscheduled RAPB Forgive

Occasionally, due to power or gate operator problems, one or more cardholder's RAPB status may become out of sync, causing them to be locked in or out of the facility. To re-sync user's RAPB status follow the steps below.

- 1. From the **Tree View**, right-click on **Connection1 (or a connection group).**
- 2. Select Forgive.
- 3. Choose **All** to reset all users, **Range** to enter a range of cards to forgive or **User** to forgive a single cardholder.
- 4. Click **OK**.

		8500007-1 8500007-2		
	3 X	Print View New Connect	•	
	S D N	Disconnect Login Logout		3
⊳ 🥵 Ma		Forgive		All
⊳ <mark>,</mark> SVo Ma Los A		Door Control Backup	;	Range User
		Restore Send		
	×	Delete		

4.12 Editing a Time Zone for a single reader

- 1. From the Tree View, right-click on the selected reader.
- 2. Select Properties.
- 3. Click on the **Zones** button.
- 4. Select the Time Zone to be edited.
- 5. Follow the procedures described in section 5.3.
- 6. Click on **Send**. Close these boxes.
- 7. Save settings when prompted.

Time zones, re	eader: 'Front Door'		
Time Zone Configuration Sunday -		16 17 18 19 hai 111 hai 11 12 13 14 15 16 17	s 9 10 11 🙈
Monday - Tuesday -		16 17 18 19 10 11 12 11 12 13 14 15 16 17 16 17 18 19 10 11 12 11 12 13 14 15 16 17	3 3 10 11 3 3 10 11 3 3 10 11 3 3 10 11
Wednesday - Thursday -		16 17 18 19 100 111 12 11 12 13 14 15 16 17 16 17 18 19 100 111 12 13 14 15 16 17	3 3 10 11 3 3 10 11 3 3 10 11 @
Friday - Saturday -		161 171 181 191 1xx 111 1x1 131 141 151 161 17 161 171 181 191 1xx 111 1x1 131 141 151 161 17	3 19 fr0 111 8 19 fr0 111 8 19 fr0 111
Holiday -	In the second	[6] [7] [8] [9] [0] [1] [82 [1] [2] [3] [4] [5] [6] [7	3 9 ta tt
Antipassback Co None Timed Hard	nfiguration O Real Hard O Real Soft	Valid Dates Valid Dates Start Unrestricted Begin Date: 6/23/2003	Refresh
Start/End Delay Delay Start Delay End	0 (Minutes) 0 (Minutes)	End Unrestricted End Date: 6/23/2003	Send All Close



Warning: If you do a Global Send for the Time Zone you have just edited, it will be overwritten by the default Time Zone configuration for that Location.

4.13 Access Groups

An Access Group is assigned to each user defining which readers they have access to, and what times the readers can be used.

SK-NET automatically creates two default Access Groups:

The **Master User** group always includes all the readers in the location and is assigned Time Zone 1 (always valid). **Master Users** can use any reader at any time.

The **Void User** group also includes all the readers. It is tied to **Time Zone 0** (Never valid). Placing a cardholder in the Void User group means he can never go anywhere, but his attempts to use the card will appear in Transactions.

4.14 Creating an Access Group

- 1. In the **Tree View**, right-click on **This Location** (or the new location name).
- 2. Select New.
- 3. Select Access Group.
- 4. Enter a group name. Enter a Time Zone for the group. Click **OK**.
- 5. The name of the new Access Group now appears on the left side of the screen. At this point there are no readers assigned to this group.
- 6. Left click on the + next to **Connection Group** in the **Tree View**. A list of all the readers for that location will appear below.
- 7. Drag and drop the desired readers from the **Connection Group** into the new access group. Click on the + next to the new group and verify all the proper readers appear.
- 8. After changing all your users to the new Access Group be sure to click on **"Send Users Full"**.

Select nam	• 🔀
Name :	NewAccessGrp
Time Zone :	01
ОК	Cancel

4.15 Changing a reader's Time Zone in an Access Group

Each reader in an **Access Group** could be assigned to a different **Time Zone**. To edit an Access Group:

- 1. Right Click on the Access Group name.
- 2. Select Properties.
- 3. Click on the **Readers** tab.
- 4. Click on the "edit" icon (It looks like a little triangle).
- 5. Change the Time Zones next to each reader name.
- 6. Click on the **"Send"** button.
- 7. Click on Close.

	ser group readers			
	Reader ID	Location	Time Zone	
•	front lobby in	London	4	
	front lobby out	London	4	

4.16 Changing the reader icons

- 1. From the **Tree View**, right click on the reader name. Select **Change Icon**.
- 2. Select a suitable icon from the displayed menu. Click OK.



4.17 Door schedules

A **Door Schedule** is used to automatically lock and unlock a door according to a regular weekly time schedule. Each Door Schedule has a 24-hour schedule for each day of the week, as well as a 24-hour schedule for "holidays". Any date designated as a holiday will follow the holiday schedule, regardless of what day of the week it falls on.

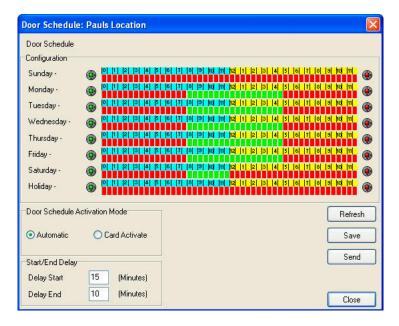
You may set a **Location** Door Schedule for all the readers in the location, or you can set a **Door** Schedule for an individual reader.

Each reader in the system may have its own unique **Door Schedule** if required. Door Schedules are completely separate from the system's Time Zones.

4.18 Programming a Door Schedule

Location Door Schedule (All readers):

- 1. In the Tree View, double-click on Door Schedule.
- Every GREEN square represents a ¹/₂ hour increment when the door will be unlocked. Every RED square is a ¹/₂ hour increment when it will be locked. Change the color of any square by clicking on it.
- 3. Select Automatic or Card Activate. Automatic means the door will unlock at the predetermined time. Card Activate means that the door will remain locked after the GREEN period begins until the next valid card is presented. This ensures that someone is in the building before the door unlocks.
- 4. For Door Schedules that do not conform to exact half-hours, use the **Delay Start** and **Delay End** feature. (See Section 5.4)
- 5. Click Send when finished.





NOTE: If you have a Door Schedule, you probably need to define Holidays.

NOTE: To temporarily override a door schedule, **See** Section 5.30d.

Single Door Schedule

- 1. In the **Tree View**, right click on the reader name.
- 2. Select Properties
- 3. Click on the **Door Controls** tab.
- 4. Click on Schedule.
- Every GREEN square represents a ¹/₂ hour increment when the door will be unlocked. Every RED square is a ¹/₂ hour increment when it will be locked. Change the color of any square by clicking on it.
- 7. Select Automatic or Card Activate. Automatic means the door will unlock at the predetermined time. Card Activate means that the door will remain locked after the GREEN period begins until the next valid card is presented. This ensures that someone is in the building before the door unlocks.
- 8. For Door Schedules that do not conform to exact half-hours, use the **Delay Start** and **Delay End** feature. (See Section 5.4)
- 9. Click on Send. Click OK. Click on Close.

Door Schedule	e: Pauls Location	
Door Schedule		
Configuration		
Sunday -	@ <mark>10 11 22 33 44 51 66 71 88 99 hol 111 ha 11 22 33 44 55 66 71 88 9</mark>	9 hq 11
Monday -	@ <mark> 0 11 2 3 4 5 6 7 8 9 h0 11 h2 1 2 3 4 5 6 7 8 </mark>	<mark>9 ha 111</mark> 🛞
Tuesday -	🞯 ¹⁰ 11 12 13 14 15 16 17 18 19 ha m ka 11 12 13 14 15 16 17 18 1	<mark>ia ha hi </mark>
Wednesday -	@ ¹⁰ 11 12 13 14 15 16 17 18 19 ho m ha 11 12 13 14 15 16 17 18 1	111 of 111
Thursday -	© 10 11 12 13 14 15 16 17 18 19 10 11 12 13 14 15 16 17 18 1	11 pd 111
Friday -	0 11 2 3 4 5 6 11 8 9 ho m ka 11 2 3 4 5 6 11 8 19 ho	19 ha 11
Saturday -	0 11 12 13 14 15 16 17 18 19 10 11 18 11 12 13 14 15 16 17 18 1	9 hq h1
Holiday -		
r tolloay -		
Door Schedule A	Activation Mode	Refresh
 Automatic 	O Card Activate	Save
Start/End Delay		Send
Delay Start	15 (Minutes)	
and man in		
Delay End	10 (Minutes)	Close



NOTE: If you have a Door Schedule, you probably need to define Holidays.

4.19 Holidays

Any date that is designated as a holiday will follow the **Holiday** schedule in **Time Zones 2-15** and in any **Door Schedules** you have created. You may designate up to 32 dates as Holidays.

While it is usually best to create Holidays per Location (for all readers) you may also create a Holiday for a single reader.

4.20 Programming a Holiday

Location Holidays:

- 1. In the Tree View, click on Holidays.
- 2. Click on the "+" plus sign icon to add a Holiday.
- 3. Enter the date of the Holiday. Type in a name for the Holiday. If the Holiday always falls on this date, check **Yearly**. Click **OK**.
- 4. To remove a Holiday, highlight the Holiday number and click on the "-" minus sign.
- 5. To edit a Holiday, highlight the Holiday number and click on the **edit** icon (up arrow). Make changes to date or name and click **OK**.
- 6. After all Holiday additions or changes are made, click **Send**, then **OK**, then **Close**.

File Explorer Transactions Users H									
😂 🖻 🗞 🛠 🖸 😫 🗙 🔳 🕷		₿¥.	U 🕭 🛙		🔲 🖸 😽 Send Users (Full)				
Entire System			Contents of : London/Holidays, 6 items						
SK-NET				▶ 4	🗕 🗕 🔺 Daylight Savings Mode (ON) 📝 🛛 Sen				
			Date	Yearly	Description				
		1	7/4/2004	Yes	Independance Day				
🚧 Users		2		B Yes Yes	Christmas				
Time-Date		3							
- Time Zones		4	3/22/2008	No					
		5	5/26/2008	No	Memorial Day				
Holidays		6	9/8/2008	No	Labor Day				



NOTE: At the beginning of each new year, you need to review the Holiday schedule. Any Holiday which does not have a "YES" located in the yearly box needs to be changed.

4.21 Changing the latch timer for a single reader

- <u>1</u>. Right-click on the name of the reader you want to change.
- 2. Select Properties.
- 3. Click on the **Edit** button.
- 4. Enter a new Latch Timer value (in seconds).
- 5. Click on the **Send** button.
- 6. Click on **Close**.

Entrac	omp SK-ACP	: Persor	nnel			×
Cards	Door Controls	Settings	Configuration	Transactions	Utilities	Service
System	n Settings		à il	(
Pane	el				Edi	t I
Time	e: 16:39	(hh:mm	1)		Sen	-
Date	er 1/12/	2004			Jen	<u>u</u>
1.1.1.1.1.1.1	n baudrate:	38400			Refre	sh
Ien	n Daudrate:	38400			Zon	es
Firm	ware Version:	2.41				
Read	der				Holid	ays
Read	der ID: Per	sonnel				
Time	d APB	30	(Minutes)	-Reader Ico	on:	
Latel	h Timer:	5	(Seconds)	2	Chang	je j
					11.84	
						llose

4.22 Date and time

By default, every time you log into a location with your computer, the time and date in that computer can be transmitted to the system. If you prefer, you may manually set the system time using SK-NET[™]. (For example, if the computer is in a different time zone, you will want to set the time manually.)

Automatic Daylight Savings Time adjustments are handled by the system, unless you override this feature.

4.23 Setting the time and date

- 1. In the Tree View, right-click on This Location.
- 2. Select **Properties**.
- 3. Click on the **Settings** tab.
- 4. Uncheck the Auto Time Synch box. Close.
- 5. In the **Tree View**, click on **Time/Date** once to display current time and date settings.
- 6. Double-click on Time/Date to make changes.
- 7. Click on Edit.
- 8. Enter new time and date settings. Click Send. Click Close.



4.24 Configuring or Overriding U.S. Daylight Saving Time feature

1. Check your firmware versions, by left clicking on all connection groups.

of : This Location/LAN	2				
The second se	2				
of · This Location/LAN					
or it mus cooddoriyemi	V 231, 3 ite	ems			
١	Node ID	Logged In	Serial Number	Version	Туре
oading Dock	003		5097464	2.40	28SA+
arking In	004		3333333-2	2.43	SK-ACP
arking Out	049		3333333-1	2.43	SK-ACP
•	oading Dock. Parking In Parking Out	Parking In 004	oading Dock 003 Parking In 004	oading Dock 003 5097464 Parking In 004 3333333-2	oading Dock 003 5097464 2.40 Parking In 004 3333333-2 2.43

- 2. To verify the firmware versions, look at the version column.
- 3. If all firmware versions are 2.43 or higher then stop here.
- 4. If you have any firmware versions 2.42 or **lower** then go to **Option 2**.
- 5. If you are located **outside the U.S**. and use daylight savings then go to **Option 2**.
- 6. If your state does not change daylight savings, skip to Option 3.

There are three options for configuring daylight saving time operation.

To select the Daylight Saving Menu:

- 1. Right click on the **Location Name**.
- 2. Select **Properties**



Option 1: Use the current U.S. daylight saving dates

- 1. Select the Settings tab
- 2. Select Auto (US) for the current United States Daylight Saving dates
- 3. Click Send

Properties	Settings	Reader Groups	Access Groups	
Daylight	Savings M	ode		
AUTO	(US)	~	Send	
Auto Lo	ogin: 🔽	Auto T	Time Sync 🔽	
				_
Connect			Close	,

This will update all the readers in your system with the current US Daylight Saving dates.

Option 2: To change to custom dates (non-US dates: Europe or Mexico for example)

- 1. Select the Settings tab
- 2. Select Manual, to select custom dates
- 3. Enter Begin Date and End Dates
- 4. Send

Properties	Settings	Reader Groups	Access Groups
Daylight	Savings M	ode	
MANU	AL	~	Send
Begin D	ate	5/30/2012	*
End Da	te	11/30/2011	~
Auto Lo	igin: 🔽	Auto T	Time Sync 🔽
Connect			Close

This will update all the readers in your system with the selected dates.

Option 3: Turn off Daylight Savings (example, Arizona)

- A. Select the Settings tab
- B. Select Off
- C. Click Send



This will turn off Daylight Savings for all readers.

4.25 IN and OUT readers

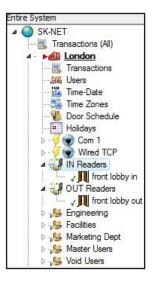
SK-NET[™] automatically creates a reader group for **"IN"** readers and a group for **"OUT"** readers. If your system has readers on both sides of an opening to control both access (entry) and egress (exit), you should place these readers in the IN and OUT groups.

When a reader is neither an IN or an OUT reader, valid card uses appear as "Valid Access" in **Transactions**. When a reader has been designated as an IN reader, the message will say "Valid Entry". When a reader is designated as an OUT reader, the message will say "Valid Exit":

Designating readers as IN and OUT is required in order to have **Real** Antipassback. (See Section 5.9, #3)

4.26 Programming an "IN" or an "OUT" reader

- 1. In the **Tree View**, click once on **Connection Group**. This will cause all of the reader icons to appear on the right side of the screen.
- 2. Drag-and-Drop the appropriate readers onto the **IN Reader** group and the **OUT Reader** group on the left side of the screen.
- 3. Click on the "+" plus sign next to IN Readers and OUT Readers to verify the readers for each group.
- 4. Repeat steps for each Connection Group.



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4.27 Reader Groups

A Reader Group is used to set common properties for two or more readers. SK-NET[™] automatically creates two Reader Groups: **IN Readers** and **OUT Readers**. You may create up to 25 additional Reader Groups as you wish.

4.28 Creating a Reader Group

- 1. From the **Tree View**, right-click on **This Location** (or the new location name).
- 2. Select New. Select Reader Group.
- 3. Enter a name for the new Reader Group. Click OK.
- 4. Click on **the Group Name** once. This causes all of the reader icons to appear on the right side of the screen.
- 5. Drag-and-Drop the desired readers from the right side of the screen onto the name of the new Reader Group.

Name : New Group			
	Name :	New Group	



NOTE:: Reader Groups are often used with Door Controls.

An "All Readers" group is useful to send parameters and configuration settings to systems with more than one Connection group. Without an All Readers group, you would have to send these parameters once for each Connection Group. SK-NET 5.0 does not automatically create an All Readers group, but you can easily create your own:

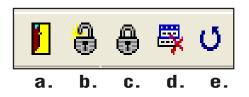
- 1. Right-Click on Location
- 2. Select New, Reader Group, and name it "All Readers"
- 3. Click **OK**.
- 4. Then drag and drop all the readers from all of your Connection Groups into your new All Readers group. If you add any new readers to the system later, always be sure to add them to this group.

4.29 Door Controls

Door Controls are functions that you can initiate from SK-NET[™] that affect the door or gate at a connected location. Door Control icons appear at the top of the Tree View screen. You can send a Door Control command to a single reader, or to a Reader Group.

4.30 Using Door Controls

- 1. From the **Tree View**, click once on the name of a single reader or a **Reader Group** (or a Connection Group).
- 2. Click on the **Door Control** icon for the function you want to initiate:
 - a. **Open The Door Now** will activate the latch relay(s) for the same time as presenting a valid card
 - b. **Unlock The Door** activates the relay and keeps it activated until you restore it. During this time the GREEN LED on the reader will flash slowly.
 - c. Make Inactive (Locked) prevents even valid cards from gaining access through the door until you restore it. During this time the RED LED will flash slowly.
 - d. Disable Door Schedule is an override that relocks a door, or group of doors, that have been unlocked by a Door Schedule.
 - e. **Make Active (Normal)** restores a reader to normal operation after it has been placed in the Unlock or Inactive state by a Door Control command.





NOTE: Disable Door Schedule is useful when conditions require that a normally unlocked door be locked early. An example would be a school that has early dismissal due to bad weather. **NOTE:** A Global Door-Open Command takes about ¹/₂ second per reader to process. On a 100-door system it will take approximately 50 seconds to open all doors. **NOTE:** A Global Reader Inactive (lock-down) Command

NOTE: A Global Reader Inactive (lock-down) Command takes about 1/2 second per reader to process. On a 100-door system it will take approximately 50 seconds to inactivate all doors.

4.31 Inputs

Inputs are circuits that connect external sensors or switches to an SK-ACP or 28SA-PLUS. This requires a momentary Normally Open contact switch. They are used to initiate special functions or to generate messages in Transactions. There are eight different Input definitions you can choose in SK-NET[™].



NOTE: Input functions are associated with the reader or door connected to the same "side" of the SK-ACP panel.

- a. **Disabled** The Input is not used.
- b. Tamper A switch or sensor that has been installed to detect interference with a component of the access control system. If this circuit is closed, the reader will be disabled and a Tamper message will appear in Transactions.
- c. Arming Circuit The reader is disabled until this input is closed. Cards presented while the Arming Circuit is open will be logged in Transactions but access will be denied. This input is often used for gates where a loop detector must sense that a vehicle is present before a card can be valid.
- d. Door Monitor Connected to a door position switch, this input activates anti-tailgate feature. It is also used to detect a door forced open or held open too long.
- e. **Door Bell** Sends an ASCII Bell Character to a PC or printer, causing an audible tone.
- f. **Remote Inactive** Closing this input makes the reader inactive (lockout).
- g. Remote Open This input activates the latch relay for the same amount of time as a valid card use. A "Door Opened Via Sensor" message appears in Transactions. Also called Request-To-Exit or REX.
- h. User Defined This input allows you to write a custom message that will appear in Transactions. The Input can be a variation of Remote Open or it can simulate Door Bell. It can also be used as an alarm reset for certain auxiliary relay output functions.

4.32 Defining an Input

- 1. From the **Tree View**, right click on a reader name.
- 2. Select Properties.
- 3. Click on the **Configuration** tab.
- 4. Click on Edit.
- 5. Select the Input you want to change.
- 6. Select the Input definition. Click **OK**.
- 7. Click on the **Send** button. **Close**.

Select Input Type:		ОК
🔿 Disabled	🔘 Door Bell	
🔿 Tamper	O Remote Inactive	Cancel
🔿 Arming Curcuit	🚫 Remote Open	
 Door Monitor 	🔘 User Defined	
User Defined Selection: Remote Open Bell Message:	s	



NOTE: Be sure to back-up the changes when prompted.

4.33 Outputs

The SK-ACP has a main (latch) relay and an auxiliary relay for each reader. (28SA-PLUS does not have an auxiliary output.) This extra relay can be activated by a variety of means to accomplish various functions.

- a. **Disabled** The output is not used.
- b. Input 1 Follow / Latch Whenever Input 1 is closed the aux. relay will activate until either 1) a valid card is presented to the reader, 2) a User Defined Input 2 is activated, 3) a pre-selected amount of time elapses or 4) Input 1 is opened.
- c. Input 2 Follow / Latch Whenever Input 2 is closed the aux. relay will activate until either 1) a valid card is presented to the reader, 2) a User Defined Input 1 is activated, 3) a pre-selected amount of time elapses or 4) Input 2 is opened.
- d. Door Monitor Alarm If one of the Inputs is configured as Door Monitor, this output will activate if the door is forced open or if it is left open too long. This output is typically connected to a local alarm signal or to a remote monitoring station. Once the auxiliary relay is activated it will remain activated until 1) a valid card is presented to the reader, 2) a User Defined Input is activated, 3) a pre-selected amount of time elapses.
- e. **Door Forced Alarm** If one of the Inputs is configured as Door Monitor, this output will activate if the door is forced open. This output is typically connected to a local alarm signal or to a remote monitoring station. Once the auxiliary relay is activated it will remain activated until 1) a valid card is presented to the reader, 2) a User Defined Input is activated, 3) a pre-selected amount of time elapses.
- f. Door Held Open If one of the Inputs is configured as Door Monitor, this output will activate if the door is left open too long. This output is typically connected to a local alarm signal or to a remote monitoring station. Once the auxiliary relay is activated it will remain activated until 1) a valid card is presented to the reader, 2) a User Defined Input is activated, 3) a pre-selected amount of time elapses.
- g. Emergency Exit Alarm Used when one of the Inputs is designated as Remote Open, the auxiliary relay will activate whenever the main relay is triggered via the Remote Open Input. This is typically used to sound a local alarm when the door has been used for egress.
- h. Card Range Cards in a selected range will activate

the auxiliary relay only or both the auxiliary and main relays. Typically this is used so specific cards can cause something special or extra to happen. The relay can be set to Toggle, (activate until another card in the selected range is presented) or to activate for a preset amount of time.

- i. Error Alarm When any one of selected "Error" conditions occur, the auxiliary relay will activate and stay activated until a valid card is presented to the reader. Error Conditions you may select from are "Door Forced", Door Held", Tamper Input", "Void User", "Invalid Facility Code", "Antipassback Violation", "Arming", "Tamper Card", "Inactive", "Invalid ID", "Time Zone Error", "Time Zone Date", "Limited Use Violation".
- j. Serious Alarm When any one of the following "Error" conditions occur, the auxiliary relay will be activated and remain activated until a valid card is presented: "Void Card", "Invalid Facility Code", "Tamper", "Door Forced", "Door Held".
- k. **Time Zone** The auxiliary relay will be activated during the GREEN increments of the selected Time Zone.
- Tamper Alarm If a Tamper Input is closed, the auxiliary relay will be activated and will remain activated until until 1) a valid card is presented to the reader, 2) a User Defined Input is activated, 3) a pre-selected amount of time elapses.
- m. Door Bell If a Door Bell Input is closed the auxiliary relay will be activated and remain activated until 1) The input is opened or 2) a pre-selected amount of time elapses.
- n. Alarm Shunt Whenever the main relay is activated by a valid card or a Remote Open input, the auxiliary relay will be activated and will remain activated until 1) the main relay returns to normal or 2) a pre-selected amount of time elapses.

4.34 Defining an Output

- 1. From the Tree View, right click on a reader name.
- 2. Select Properties.
- 3. Click on the **Configuration** tab.
- 4. Click on Edit.
- 5. Select the Output.
- 6. Select the Output definition.
- 7. Set any applicable Output Parameters Click OK.
- 8. Click on the Send button. Close.

Configure Output		
Select Output Type:		ОК
O Disabled	O Card Range	
O Input 1 Follow/Latch	O Error Alarm	Cancel
O Input 2 Follow/Latch	🔘 Serious Alarm	
💿 Door Monitor Alarm	🔿 Time Zone	
O Door Forced Alarm	🔘 Tamper Alarm	
🔿 Door Held Open	🔿 Door Bell	
O Emergency Exit Alarm	O Alarm Shunt	
Output Parameters: Activate Until Valid Card User Defined Input Elapsed Time	5	
Expiration Time: 00:10	(mm:ss)	



NOTE: Be sure to back-up the changes when prompted.

4.35 Programming custom Wiegand data formats

- 1. From the **Tree View**, right-click on the reader name.
- 2. Select Properties.
- 3. Click on the **Service** tab.
- 4. Click on Edit.
- 5. Uncheck Use Defaults.
- 6. Enter the total number of bits in your card format.
- 7. Use the slide scale to set the number of card I.D. bits to 16.
- 8. If normal parity bits are not used check **No Parity** and verify whether the card number is correct. If not, select **Ignore Parity.**
- 9. Click **Send** to change settings for that reader only. Click **Send** to **All** if all the readers require these settings.

m Weigar	nd
default	
Parity	
re Parity	
l bits:	31
cted posi	tions:
17.0	29 FAC: 0 ?
	Edit
(Send
(Send to All
ſ	Refresh
	default Parity re Parity I bits: cted posil



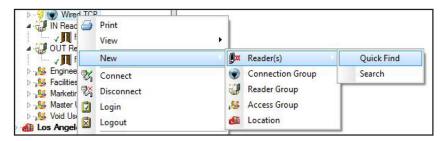
NOTE: This feature is not supported with the 28SA Plus.

NOTE: Be sure to back-up the changes when prompted.

4.36 Adding new readers to the system

After the new hardware has been installed and wired into the system, hold in the reset button while turning on the power. Hold for 3 seconds and release. SK-NET[™] will now be able to find the new reader(s).

- 1. From the Tree View, right-click on Connection Group.
- 2. Select New.
- 3. Select Reader(s).
- 4. Select **Quick Find** (unless you have more than 20 readers, then use **Search**).
- 5. SK-NET[™] will find the new reader(s) and bring them into the system. Follow the prompts until the new readers have been logged in.





NOTE: The newly found readers will automatically be added to the **Connection Group, Master Users** and **Void User** groups. Be sure to drag-and-drop the new readers into any other appropriate Access Groups before you do a **Card Send**.

NOTE: This procedure must be followed anytime you perform a Power Reset on a panel or reader. **(See Section 10.7)**

4.37 Adding a Facility Code

SK-ACP can learn up to 16 **Facility Codes** and 28SA-PLUS can learn up to three. While it is best to have a single Facility Code in each system, this is not always convenient. You can set Facility Codes in a panel or reader by pressing the reset button and then presenting a sample of ALL the Facility Codes to a reader while the LED is flashing alternately RED and GREEN.

If there are multiple panels you can repeat this procedure at each, or you can send the codes from one unit to all the others through SK-NET[™].

- 1. From the **Tree View**, right click on the name of a reader that has all of the required Facility Codes.
- 2. Select Properties.
- 3. Click on the **Service** tab.
- 4. Click on Add, Enter Value
- 5. In the Facility Code section, click on Edit.
- 6. Click on Close. Click on Send To All.
- 7. Click Close.

Facility Codes (Panel)	
Facility code 1: 17 Facility code 2: 7	Edit
Facility code 3: 4 Facility code 4: 0	Send
Facility code 5: 17	Send to All
	Refresh

Now that all the readers have been updated with new facility codes, you need to update the database files in SK-NET[™].

- 1. From the **Tree View**, right click on **Location**.
- 2. Select Backup.
- 3. Select All Readers



NOTE: Sending Facility Codes via SK-NET[™] is not supported by the 28SA-PLUS.

NOTE: Be sure to back-up the changes when prompted.

5. MANAGING USERS

The User screen displays all cards and associated cardholders. This is where you can add a card, edit card details, monitor in and out status and generate user reports.

5.1 Entering Cardholder Information

- 1. In the **User View**, double click on the card number you want to issue. A **User Detail** box will appear.
- 2. Enter the cardholder name. Select an **Access Group** from the dropdown list.
- 3. Other fields are optional. They are provided for your convenience.
- 4. To attach a photograph to a user record, click on **Load**. Use the browser to locate the jpeg (.jpg) file with the desired picture.
- 5. Click **OK**.
- 6. After all card additions or changes, click the Send Users arrow.

User Properties	X
Enter o	r modify user information here.
User Information	
First	Chuck
Last	Rost
MI:	Contraction of the second seco
Card #:	107
Access Group:	Marketing Grp 💌
Title:	Manager
Tel Ext	123
Dept	Development
Employee #:	345 Load Clear
User Fields	
User 1:	User 2:
User 3:	
Vehicle Information	
Parking:	39 Vehicle 1: YTH365 Vehicle 2:
	New Next>> Print Cancel
	New Next?? Print Lancel



NOTE: Follow the same procedure to edit cardholder information or change Access Group.

NOTE: Attached photos should be small files (480x640). High resolution pictures may slow the program and they will not look any better on a computer screen. Attached photos can be viewed in Transaction Detail **(See Section 6.3)** and are available for use by SK-NET-MLD for badge printing.

5.2 Adding a new card number

- 1. In the **User View**, click on the "+" sign (Add).
- 2. In the **User Detail** box, enter the cardholder name.
- 3. Enter the Card Number.
- 4. Select an Access Group from the drop down list.
- 5. Enter additional data and/or attach photos if desired.
- 6. Click **OK**.
- 7. After all card additions or changes, click the **Send Users** arrow.

5.3 Deleting a user



NOTE: You can remove a card completely from the system. It is usually better, though, to edit the card and make it a Void User. This ensures that the card will not open anything, but each attempted use will be recorded in Transactions.

To remove a single card:

- 1. In the **User View**, click on the card number to be removed. This will position the pointer next to that number.
- 2. Click on the "X" (Delete). The record will be removed.
- 3. After any card additions or changes, click the Send Users arrow.



NOTE: Be sure to backup your system when you exit SK-NET[™].

5.4 Changing the names of User data fields

- 1. Click on the word **File** in the top menu bar.
- 2. Select Preferences.
- 3. Click on the User Field Labels tab.
- 4. Change the text to be displayed for any of the field labels shown. Click **OK**.

¤ ₽ Transactio	n Colors 🍀 User Fie	eld Labels	📴 Settings	📌 Dealer Info	🕌 Automate	눩 Video
User Field 1:	User 1		Employee #:	Emp #		
User Field 2:	User 2		Parking:	Parking		
User Field 3:	User 3		Vehicle 1:	Lic 1		
Dept:	Dept.		Vehicle 2:	Lic 2		
Title:	Title					
TelExt	TelExt			Defa	ults	

5.5 Sorting cardholders in the User List

When the User list is displayed, you can sort the User List by clicking on many of the column headings. For example, clicking on **Last Name** will sort the list alphabetically by last name. Clicking on **Card Number** will sort the list from lowest to highest card number.

You may also find a specific card or user by clicking on **Users** on the top menu bar, then select **Find**. Select the search field (Last Name, Card Number, Title, etc.) and enter the corresponding value. A pointer on the left side of the list will move to the desired record.

5.6 Filtering Users

Filters allow you to temporarily remove unwanted records from the list. This allows a limited user report to be generated, for example, users in a single department or users who are out of the building.

5.7 User Reports

- 1. From the User View, click on the Filter Users icon.
- 2. In the Filter Users detail box, select, IN/OUT or Department.
- 3. Enter the desired filter value. Click **OK**.
- 4. To remove any applied filters, repeat the process and select **ALL** for each filter type.

In/Out		
All	O IN	© OUT
Department		
All	-	
🔊 Single]



NOTE: Users in a particular Access Group can be filtered by simply clicking on the User icon under a particular Access Group icon.

5.8 Limited Use Cards

Limited Use Cards are valid for a specific number of uses, days or weeks. After the preset limit is reached, the cards become Void. Limited Use Cards can also be set to "Count". This feature keeps track of card uses, but does not automatically void the card.

Limited Card usage is shared between all of the readers in a location, but it is not transmitted from one location to another. It is usually best to set up Limited Use Cards globally, but they may also be created in a single reader or a Reader Group.

A maximum of 4000 cards can be used as **Limited Use Cards**. By default the Limited Use Card range is set from 1 to 4000. This can be changed if the cards being used in your system are in a different card number range.

5.9 Programming Limited Use Cards

- 1. In the Tree View screen, right-click on a Connection Group.
- 2. Select Properties.
- 3. Click on the **Configuration** tab.

Send General Settings Latch Timer: 3 (Seconds) Timed Antipassback 30 (Minutes) Baudrate: 38400 🗸
Send

- 4. Enter the lowest and highest **Limited Use Card** numbers from among the cards enrolled in your system. (No more than 4000 cards may be Limited Use.)
- 5. Click Send.
- 6. Click on the **Cards** tab.

Properties Read	Jers Cards	Configuration	Transactions	
Program Cards in Time Zone: 0	-	00001 End	: 65503	Send
Program Limited	Use Cards			
🔿 Days	💿 D	ays After Use	◯ Weeks	
O Uses	O Co	ounter	🚫 None	
Start: 00001	End: 04	000 Value:	7	Send

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- 7. Select the appropriate Limited Use parameter. Enter a count value, where required.
- 8. Enter the lowest and highest cards within the previously defined limited use card range, that applies to this parameter. (You can define multiple groups of Limited Cards with various limitation parameters.)
- 9. Click Send. Click Close.



NOTE: A similar process can be used in the properties of a Reader Group or of a single reader. It is usually better to make Limited Use Cards Location-wide.

NOTE: Limited Use cards cannot be programmed into **Time Zone 1** or Master Users.

NOTE: When the **Uses** parameter is selected, the system does not count uses involving an **OUT** reader.

NOTE: To reprogram a void Limited Use card, follow the programming steps above for the desired card or card range.

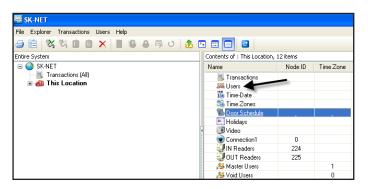
NOTE: If your system has more than one Connection Group, in order for the Limited Use "Uses" or "Counter" function (number of uses) to work properly, all of your Connection Groups must be connected to the system, and the SK-NET[™] software must be running on your PC (it can be minimized). Once programmed, the Limited Use "Days", "Days after Use", and "Weeks" functions will continue to work, even if the SK-NET[™] software is not continuously connected or running.

5.10 Integrated Badge Printing

SK-NET[™] is capable of printing ID badges using any windows-compatible ID card printer. SK-NET[™] Badge Printing is template based, which allows the user to create professional looking badges.

SK-NET[™] Badge printing allows you to design and name custom badge templates which can be assigned to individual classes of card holders (for example, at a Hospital, you can design and save different badge templates for Nurses, EMTs, Facilities, Doctors, etc.)

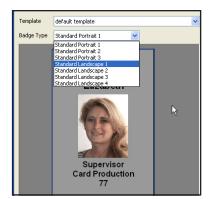
To start creating badges, start SK-NET[™], then double-click on Users.



Select a User name, then in the area below the user's photo, click on the Badge button. The Badge Layout Definition screen will then appear. To select a template to start with, click the drop down menu labeled "Badge Type." You can choose from seven different standard templates:

User Properties	
Enter o	r modify user information here. Print
User Information	
First	Elzabeth
Last	Chavez
MI: ^{MS}	
Card #:	352
Access Group:	Master Users
Title:	Supervisor
Tel Ext:	44
Dept	Card Production Load Clear
Employee #:	77
Badge Template	default template V Badge
Liser Fields	
User 1:	User 2:
User 3:	
Vehicle Information	
Parking	Vehicle 1: Vehicle 2:
ОК	New << Previous Next>> Cancel

Secura Key • 53



Standard Portrait 1 Standard Portrait 2 Standard Portrait 3 Standard Landscape 1 Standard Landscape 2 Standard Landscape 3 Standard Landscape 4 Logo on top, name above photo Logo on top, name below photo Logo on bottom, name above photo Logo on top, photo on left side Logo on top, photo on right side Logo on top, large photo on left side Logo on top, large photo on right side

An image of the current badge design is shown on the left side of the screen. Configuration parameters are on the right side of the screen.



Badge Layout

When configuring the badge layout, for each data field, a check box allows the user choose whether or not to "Show" that field. For each field, the user can select a Font, font color, and point size. Name Options allows you to select the display order of First Name, Last Name and MI. The "With Punch Hole" check box will reformat the card layout to allow for a slot punch. The Prefix field allows you to insert a prefix text before each data field, such as Card No:, Employee No:, etc.

Inserting Logo

To insert a company or organization logo, first save a JPEG of the logo onto your computer's hard drive, then check the Show Logo check box, then click on Load, and you can browse your disk drive to find the logo file. The logo should be correctly sized to fit on the card, but SK-NET[™] will center and size the logo to fit into the card layout. To make the logo appear correctly, click on the transparent check box, and select the appropriate color to be transparent.

Creating Templates

The Static Text field allows you to enter text that is not a database field. This is useful when setting up templates for various cardholder job classifications, for example, at a hospital, you can define a different Badge Template for NURSES, DOCTORS, EMTs, MAINTENANCE, etc. Once you have set up the artwork the way you want it, click on Save As, and then overwrite the text "default template" which appears in the popup box, by typing the new template name.

Card Backgrounds

The Show Wallpaper check box allows you to use a JPEG image file as a background for the card. This can be an interesting texture, or you can design and create a custom card background in Photoshop and save it as a JPEG onto your computer's hard drive. Then check the Show Wallpaper check box, then click on Load, and you can browse your disk drive to find the Wallpaper file. The logo should be correctly sized to fit on the card, but SK-NET[™] will center and size the Wallpaper to fit into the card layout.

If you don't have a wallpaper or pre-designed background for the card, SK-NET[™] will allow you to select a color for the background, and choose from several different types of gradiated washes. If you are designing a number of different Badge Templates for your organization, you may want to give them different colored backgrounds, so that they can be visually recognized at a distance.



NOTE: If you choose a dark background, you may need to select a light color for text fields, to make them easier to read against the dark background.

Text Alignment

The Text Position radio buttons allow you to align text fields for the best appearance. The Left Adjust and Top Adjust fields allow you to enter a value to change the alignment of the artwork on the card. You can enter a number from 1-10 in the field. Normally, you should not have to use these fields.

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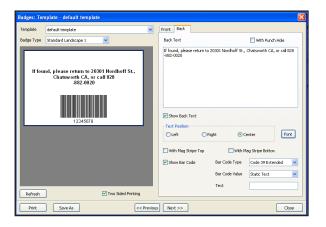
Two-Sided Printing

The Two-Sided Printing check box should be used if you have a dual-sided card printer, and if you intend to print text or a bar code on the back of the card. If you want to print both sides of the card, be sure to set twosided printing in your Printer Properties definition, or the card will not flip over and you will print the front and back images on two different cards.

To design the back of the card, click on the Back tab on the Badge Layout screen. You can type in any text that you want to appear on the back of each card, such as a "Return Card to" address, or a "Not Responsible for Damages" disclaimer for a parking lot.

You can also select which data field is used to create the bar code, and then you can select the type of Bar Code to be used.

Most two-sided printers will print the front of the card in four-colors, and the back of the card in resin black, and many printers have a special ribbon which has an extra resin panel for printing the back of the card.



Slot Punching Cards with Artwork

Do not slot punch your cards prior to printing, and be careful to slot punch the cards at the slot punch targets marked "+" to avoid damaging the antenna in the card. If you have already slot punched your cards, adjust your layout so that you will not be printing anything in the area of the slot, as the sharp edge of the slot tends to tear dye sublimation printer ribbons.

Avoiding Printing Problems

Access control cards may contain embedded integrated circuits or "chips," antennas, inlays, Wiegand code strips, or magnetic material. These embedded materials may be made more obvious if you print the card

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with a 'full-bleed" solid color background. If the embedded components cause the card surface to be uneven, the dye sublimation print head may lose contact with the card at the point where it passes over a high spot, causing a white spot or "printing void" in the card background. To avoid printing problems, a white background will provide better results than using a solid color. Also, do print some test cards before you begin to print large quantities of cards. If you notice that the cardholder's portrait appears over a printing void caused by embedded components, you can choose another standard template, which changes the location of the photo.

When handling cards prior to printing, use powder-free gloves, and hold the cards by the edges – do not get fingerprints or oil from your skin on the cards. PVC cards have a static charge, and they attract dirt and debris, which cause printing problems, so use your printer's cleaning card and head cleaning pen, and keep your work area as clean as possible. If your cards should get dirty, use a soft cloth and 99% Isopropyl Alcohol to clean each card prior to printing.

6. MANAGING TRANSACTIONS

The Transaction view displays system activity. Card events that are valid and invalid are displayed, along with system events such as a door unlocked by a Door Schedule or automatic RAPB Forgive.

Transactions can be displayed in a list, with the most recent event at the bottom of the screen. You can also display a single transaction in detail, including any attached photograph for the cardholder.

6.1 Changing Transaction View

- 1. From the Transaction screen, click on the Change Colors icon.
- 2. Click the **Change** box next to the event type you want to alter.
- 3. Select a color from the chart. Click **Apply** to preview how the color will look. (Some colors are very hard to read.) Click **OK** to use the selected color.

references		Service .	Station in				_Σ
🗗 Transaction Colors	📸 User Field	Labels 🥵 Setting	s 📝 Deale	er Info	🞇 Autom	ate	🏚 Video
Invalid Use Event	Color:	<u>/////////////////////////////////////</u>	Bold	V	Italic		
Valid Use Event C	olor:	<u></u>	Bold		Italic		
System Event Cold	r: 🚺	///////////////////////////////////////	Bold		(/talk	V	
							Defaults
OK Aj	ply						Cancel

4. To change whether a transaction class appears Bold or Italic, click the appropriate check box.

6.2 Filtering Transactions

- 1. From the Transactions screen, click on the Filter icon.
- 2. In the **Transaction Filter** box, select one or more filter criteria types. Each filter criteria requires a value to be entered.
- 3. Click **OK**.
- 4. To remove any filters, repeat the process and select **ALL** for each filter criteria (or click on **Defaults** to reset all filters.)

Transaction Category	From Dates	Through Dates
Show All Category Violations System	Events On	Cast Event On Events On
User Selection All Users Single User Select User:	1/1/2007	4/10/2008
Card Number All Cards C Single Card	Daily Time	Chat Time
Reader Selection All Single	⊚ All Time ⊚ Time Range	Start Time



NOTE: To View Transactions of Users from a particular Access Group or location, simply click on the Transactions icon under a particular Access Group or location.

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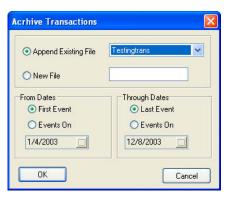
6.3 Viewing cardholder photos

- 1. From the **Transaction** View, click on the **Zoom In** icon (magnifying glass icon).
- The selected transaction will be displayed with user details and photo (if loaded), To view previous transactions, use the navigation buttons.

Event Time Event Date	12/12	
Event Type	Valid Exit	-
User Name	Andrew Chess	
User Access Group	Master Users	Nº O PY
User Number	1	
Reader ID/Location	Parking Out/Jeffs Location	

6.4 Archiving older transactions

- 1. From the **Transaction** View, click on the word **"Transactions"** in the menu bar.
- 2. Select Archive, then New/Append.
- 3. Enter a name for the archive file destination.
- 4. If you do not want to archive all the transaction records, enter a starting and/or ending date.
- 5. Click **OK**.





NOTE: In the same menu you may choose to delete an archive file that you no longer wish to retain.

6.5 Viewing archived transactions

- 1. From the **Transaction** View, click on the selector arrow for **Select Transactions to View**.
- 2. Select the archive file you want to see.
- 3. You may navigate through archived transactions the same way you navigate through current transactions.

	of : London/Tra			Current Transactions	🔽 🕺 🔛 🗽
Time	Date		User Name - Acces	Current Transactions andrew1	nsaction Type
11:57	3/17/2008		Jeff Hamilton - Masl		id Access
11:57	3/17/2008	2	Jeff Hamilton - Masl	first archive next Archive	d Access
12:14	3/17/2008	22		test1	alid Facility Code
12:38	3/17/2008	83		- Martine	Invalid Facility Code
14:11	3/17/2008	1372	Jerry West - Master	Users	Opened Door via PC

6.6 Excluding Transaction Types

You may exclude specific transaction types from the system audit trail. Transaction types to exclude can be selected from the connection group or for individual readers. Excluding some transaction types reduces the number of event records in **Transactions** and also conserves space in the event buffer of the SK-ACP and/or 28SA-PLUS.



NOTE: If you have more than one connection group and you want to exclude one or more transactions from all of the readers, we recommend that you create an **"All Readers Group"**. This will allow you to send this command one time and apply the change to all readers in the system. **See Section 5.28.**

6.7 Excluding Transaction Types

- 1. From the **Tree View**, right-click on a **Connection Group**.
- 2. Select Properties.
- 3. Click on the **Transaction** tab.
- 4. Place a check mark next to each transaction type you want to exclude. Click **Send**.
- 5. This procedure must be completed for every connection group in the location.

operties	Connection	Readers	Cards	Configuration	Transactions
vents: E	xclude Types				
Type 1 Type 2 Type 2 Type 4 Type 5 Type 5	2: Valid Entry 1: Antipassbac 2: Void Card 3: Arming Circu 4: Tamper 5: Reader Inac 6: Invalid Facil 7: Invalid ID 3: Time Zone I 10: Limited Us 11: Antipassba 12: Valid Exit 13: Valid Acce 14: RAPB forg	uit stive try Code Error Date e Violation ck - Soft ss	a PC	4 III +	Send

6.8 Excluding Transaction Types for One Reader

- 1. From the Tree View, right-click on the name of a reader.
- 2. Select Properties.
- 3. Click on the **Transactions** tab.
- 4. Click on the **Edit** button.
- 5. Place a check mark next to each transaction type you want to exclude. Click **Send**.

Entrac	omp SK-ACP	: Accou	nting			
Cards	Door Controls	Settings	Configuration	Transactions	Utilities	Service
Transa	action Control:	_	Statistics:			
	View All		Transactions	: In Memory:	1711	
	As Occur	าี	Memory Utilia	zed(Percent):	35	%
	Clear All	j		(Refres	h
Event	s: Exclude Types					
🗌 🗆 Tý	pe 0: Valid Entry pe 1: Antipassba		n		Edit	
🗌 🗆 Tý	pe 2: Void Card pe 3: Arming Ciro pe 4: Tamper	cuit			Send	
🗌 🗌 Tý	pe 4: Famper pe 5: Reader Ina pe 6: Invalid Fac		ked)	_ (Refres	n
					0	lose

7. REPORTS

7.1 Transaction Reports

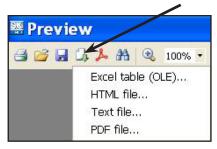
- 1. From the transaction view, apply the appropriate **Filters** required to isolate the events of interest.
- 2. Click on the **Print** icon to preview the report.



3. To **Print** the report click on the Printer icon again.

To Save the Report:

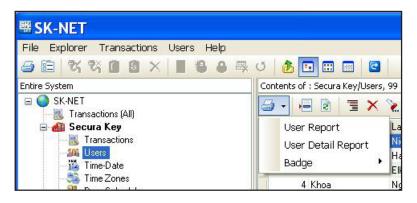
1. Click on the Export icon



- 2. Select the **file format** for the report you wish to save.
- 3. Make your selections, click OK to save the report.

7.2 User Information Reports

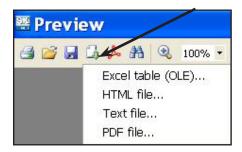
- 1. From the **User View**, sort and **Filter** the list the way you want it to appear on the report.
- 2. Click on the selector arrow next to the print icon and choose either the User Report or User Detail Report.



- 3. To Print the report click on the Printer icon
- 4. Make your selections and click **OK** to print.

To Save the Report:

1. Click on the Export icon



- 2. Select the file format for the report you wish to save.
- 3. Make your selections, click OK to **Save** the report.

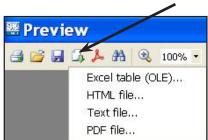
7.3 Print a System Report (List of readers in a location)

- 1. Highlight the **Location** name.
- 2. Click on the **Print** button to view the report.



- 3. To Print the report click on the Printer icon again
- 4. Make your selections and click **OK** to print.

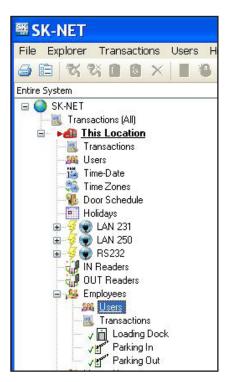
To Save the Report:



- 1. Click on the **Export** icon
- 2. Select the **file format** for the report you wish to save.
- 3. Make your selections, click **OK** to save the report.

7.4 Printing a list of Users in an Access Group report

1. Select the Access Group and highlight Users.



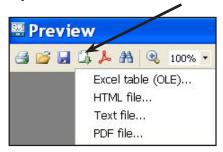
2. Select the User Report Type.

	🍖 🗠 🛸	1
User Report	Last Name	11
User Detail Report	Nichols	
50 m	Hamilton	
Badge	Nguyen	
4 Pam	Elkins	
E 11 11		

- 3. To Print the report click on the Printer icon
- 4. Make your selections and click **OK** to print.

To Save the Report:

1. Click on the **Export** icon

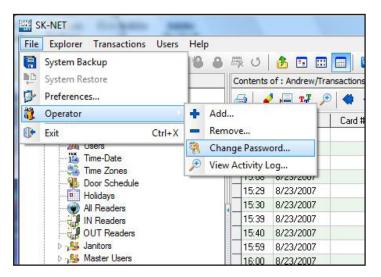


- 2. Select the file format for the report you wish to save.
- 3. Make your selections, click **OK** to save the report.

8. SECURITY

8.1 Changing an SK-NET[™] Operator Password

- 1. Click on File in the top menu bar.
- 2. Select Operator.
- 3. Select Change Password.
- 4. Enter the new password twice. Click OK.



Change sys	tem passwo	rd	
Operator	Paul		~
Password			
Verify			
ОК		Car	ncel

8.2 Assigning Operator Levels

Client/Server versions of SK-NET-MLD allow you to enroll numerous operators, each with a unique password. **Operators** can be assigned to one of five different privilege levels:

- a. Guards Able to view Transactions.
- b. Receptionists Able to view User IN/OUT status.
- c. Card Issuer Able to perform functions in the User screen.
- d. Supervisors Able to perform functions in all screens, but not able to change system parameters or Location properties.
- e. Administrators Full software privileges.
- 1. Click on **File** in the top menu bar.
- 2. Select **Operator**.
- 3. Select Add (+).
- 4. Enter the operator name, password twice and select the privilege level. Click **OK**.

🐼 Add Oj	perator	
UserName Password		
Verify Descriptior	n:	
A	dd User to Group	V
G F C S	iuards Receptionists Card Issuer Supervisors Administrators	
ОК		Cancel

8.3 System Activity Log

The **System Activity Log** records what the operators of SK-NET[™] have been doing in the software. It records the Operator, Date, Time, and what action was performed.

- 1. Click on File in the top menu bar.
- 2. Select Operator.
- 3. Select View Activity Log.
- 4. Scroll up or down to see operator activity.

M		-		M	c
OPERATOR	DATE	TIME	ACTION		
Jeff	12/8/2003	2:13:40 PM	Reader logout completed: Lan100		
Jeff	12/8/2003	2:13:43 PM	Disconnected to location:Lan100		
Jeff	12/8/2003	2:13:52 PM	Connected to location: Lan100		
Jeff	12/8/2003	2:18:15 PM	Completed search new readers: Lan100	D	
Jeff	12/8/2003	2:26:06 PM	Reader logout completed:Lan100		
Jeff	12/8/2003	2:26:16 PM	Reader logout completed: Lan100		
Jeff	12/8/2003	2:26:16 PM	Disconnected to location:Lan100		
Jeff	12/8/2003	2:26:20 PM	Connected to location: Lan100		
Jeff	12/8/2003	2:35:24 PM	Reader logout completed: Lan100		
Jeff	12/8/2003	2:35:24 PM	Disconnected to location:Lan100		
					>

8.4 Password Protection

SK-NET[™] has a second set of passwords that are exchanged behind the scenes whenever a computer running SK-NET[™] attempts to connect to a Location. This invisible password can, and should, be changed from the default (12345).

- From the Tree View, make sure that you are Connected to the Location where you want to set a new Password (see bottom of screen).
- 2. Right-click on the Location.
- 3. Select Properties.
- 4. Click on the Key icon (to the right of the word "Password".
- 5. Enter the new password twice. Click **Save**.

Properties	Reader Group	s Access Groups	
Location I Address:	nformation		
City:	(London: Change password	×
Zip Code:		New password:	Save
Country: Phone #:		Verify new password:	Cancel
Password:	2	1	
Auto Logir	n: 🔽	Auto Time Sync 🛛 🔽	



NOTE: If you have multiple Locations, it is best to set a different password for each Location.

9. DIAGNOSTICS

9.1 Communicating with a Location

In the **Tree View**, a red triangle next to the **Location** icon (the little red building) indicates that you are connected to that **Location**. A lightning bolt next to a **Connection Group** means that the connection is active.

A green check mark next to a reader icon indicates that you are logged in to the reader. Being "logged in" means that complete, real-time communication is occurring, and that all the stored transactions have been downloaded to SK-NET[™].

Reader icons with red "X's" through them are readers that have failed to log in.

9.2 Network Messasges

If you place the software in the **Debug** mode, you will see network messages displayed at the bottom of the screen.

- 1. Click on the word File in the top menu bar.
- 2. Select Preferences.
- 3. Click on the Settings tab.
- 4. Place a check mark next to Turn on Network Message View.

🗜 Transaction Colors	👸 User Field Labels	Settings	📌 Dealer Info	🛗 Automate	資 Video
System Options					
📄 Turn off ask for b	ackup at shutdown				
🔽 Turn on network	message view				
📃 Turn on reader lo	g out on card send				
Turn off time stamp check on send card changes					
Turn off taskbar flash on new trasactions					
📝 Turn on Connection Group message routing					
Turn off grid shac	ding				
Check Readers					
Never	Every 5 M	linutes	🔘 Every 30 I	Minutes	
Every 1 Minute		Minutes	🔘 Every 1 H	our	
	.]				Cancel

9.3 Self Testing from SK-NET™

You may initiate a self-test using SK-NET[™].

- 1. From the **Tree View**, right-click on the name of the reader you want to test.
- 2. Select Properties.
- 3. Click on the **Utilities** tab.
- 4. Click the **Refresh** button under Self-Test. Each item will display a Pass/Fail result.

Entracomp SK-ACI	P : Person	nnel			
Cards Door Controls	Settings	Configuration	Transactions	Utilities	Service
Self Test Results (Par Clock RAM : Serial Eprom : RAM : Flash Eprom : System Clock :	nel) Refresh	Bac	Restore Setting kup tore	S	
Panel Data Service Hours: Serial #: Panel ID:	17490 514721	8.2	S	idit end fresh	
				0	llose

10. TROUBLESHOOTING

10.1 RS232/RS485 or LAN (TCP/IP) Communications Setup:

- 1. From the **Tree View**, right click on All Readers or the **Connection Group** (version 4 or higher).
- 2. Select Properties.
- 3. Click on the **Connection Tab**.
- 4. Verify there is a com port showing in the 'Connect using' box and then run the **Connection Wizard.**
- 5. If the **Wizard** finds the connection, **click OK, Apply**. You will now be able communicate to your readers.

LAN connection (version 4 only):

- 1. From the **Tree View**, right click on **All Readers** or the **Connection Group** (version 4 or higher).
- 2. Select Properties.
- 3. Click on the **Connection Tab**.
- 4. Select LAN-internet (TCP/IP) in the 'Connect using' box and then run the Connection Wizard.
- 5. If the **Wizard** finds the proper IP address, **click OK, Apply.** You will now be able communicate to your readers.

10.2 RS232 Communications Failure:

Using RS-232 Voltage Measurements to Check for Communication Problems. If you cannot connect, it will be necessary to take voltage measurements to identify whether the problem is with the SK-ACP/28SA+ or with the computer.

Set-up for voltage measurements:

- 1. From the **Tree View**, right-click on **All Readers** or the **Connection Group** (version 4 or higher).
- 2. Select Properties.
- 3. Click on the Connection tab.
- 4. Uncheck the box next to "Gateway (RS-232)"
- 5. Click on the **Connect** button.

Measure voltages

The system will fail to connect, but in the process it will open the computer's COM port, making the voltage test possible. Measure voltages for the gateway at the 28SA+ terminal block or J7 (ACP), communications pins 1 to 5. Connect the ground lead to pin 1 (logic ground) for all measurements.

- Pin 2 (Receive Data, RXD). The voltage should read between -5 VDC to -12 VDC. This voltage comes from the PC. If the voltage is wrong or missing, disconnect the reader from the PC, and measure the voltages at the reader (should be 0.0 VDC) and at the PC (should be between -5 VDC to -12 VDC).
- 2. Pin 3 (Clear to Send, CTS). The voltage should read between +5 VDC to +12 VDC. This voltage comes from the PC. If the voltage is wrong or missing, disconnect the reader from the PC, and measure the voltages at the reader (should be 0.0 VDC) and at the PC (should be between +5 VDC to +12 VDC).
- **3.** Pin 4 (Request to Send, RTS). The voltage should read between -5 VDC to -12 VDC. This voltage comes from the Card Reader. If the voltage is wrong or missing, disconnect the reader from the PC, and measure the voltages at the reader (should be -9.5 VDC) and at the PC (should be 0.0 VDC).
- **4.** Pin 5 (Transmit Data, TXD). The voltage should read between -5 VDC to -12 VDC. This voltage comes from the Card Reader. If the voltage is wrong or missing, disconnect the reader from the PC, and measure the voltages at the reader (should be -9.5 VDC) and at the PC (should be 0.0 VDC).

Check com ports using a different PC.

 Another quick test you can run to verify if the failure is the PC or the card reader system, try connecting another PC, install SK-NET and just run the connection wizard (step 1) to see if it finds the connection.

Check com ports using a different 28SA+ or SK-ACP board

 Another quick test you can run to verify if the failure is the 28SA+/ ACP board or the card reader system, try connecting a different 28SA+/ACP board and just run the connection wizard (step 1) to see if it finds the connection.

10.3 Login Failure (RS485)

- 1. In the **Tree View**, look for a red arrow next to the **Location** icon. This indicates you are connected to the **Location**.
- 2. Click on the "+" next to **All Readers** or the **Connection Group** (version 4 or higher). If the reader shows a green check mark, this indicates the reader is logged in. An icon with a red "X" indicates lost communications with that reader. If this occurs, perform a Power Reset for the reader.

Power reset:

A power reset does three things. 1) it changes the node ID to each reader, 2) it defaults the readers password back to 12345, and 3) it resets the baud rate back to 38400.

- 1. Disconnect power from the reader or panel (including any backup battery)
- 2. Hold down the reset button.
- **3**. While holding the reset button, restore power. Continue holding the button for a few seconds. This procedure will change the node ID for the reader(s). You must now find the reader(s) as new to the system and then clone them.

To clone the readers after a power reset:

- 1. From the **Tree View**, right click on **All readers** or the **Connection Group** (version 4 or higher).
- 2. Select New.
- 3. Select Readers.
- **4**. Select **Quick Find** (with less than 20 readers), or **Search** (with more than 20 readers).
- 5. SK-NET will find the original reader(s) as new ones.
- 6. Click OK to bring them into the system. Do not log in at this time.
- 7. Look under All Readers or the Connection Group (version 4 or higher) and you will notice that you now have duplicate reader(s) names. The old one will still have the red X through the icon, and the new one will not.
- 8. Drag and drop the New reader(s) on to the old reader(s) with the same name that have the red check mark. You will be asked to Replace the reader, click Yes. This will clone the original reader settings in to the 'new' reader. Right click on the Location Name and select Login. Now all the readers should log-in and show a green check next to each reader.

10.4 Data errors:

When receiving any kind of data errors after starting SK-Net or during any operations you will need to run the database utility which will reindex all your database files.

- 1. Exit SK-NET
- 2. Left click on the Windows start button.
- 3. Select 'All Programs'
- 4. Locate SK-Net
- 5. Select to run the 'Database Utility' and close.
- 6. Restart SK-NET

10.5 Card Send failures:

If the Send Users Full or Send Users Changes fail, you will need to run SK-NET's database utility which will re-index all your database files.

- 1. Exit SK-Net
- 2. Left click on the Windows start button.
- 3. Select 'All Programs'
- 4. Locate SK-Net
- 5. Select to run the 'Database Utility' and close.
- 6. Restart SK-Net

10.6 Replacing a 28SA+ or the SK-ACP



NOTE: Do not delete the original readers from SK-NET. Only replace one reader or ACP board at a time.

After replacing the 28SA+ or SK-ACP connect to the location like you normally would. You will notice that the reader(s) will fail the login, this is to be expected.

 Click on the "+" next to All Readers or the Connection Group (version 4 or higher). Each reader icon will show a red "X" which indicates lost communications with the reader(s).

Cloning the reader(s):

- 1. From the **Tree View**, right click on **ALL Readers** or the **Connection Group** (version 4 or higher).
- 2. Select New.
- 3. Select Readers.
- 4. Select **Quick Find** (with less than 20 readers), or **Search** (if more than 20 readers).
- 5. SK-NET will find your new reader(s).
- 6 Click **OK** to bring them into the system. Do not log in at this time.
- 7. Look under All Readers or the Connection Group (version 4 or higher) and you will notice that you now have added the new reader(s) to the system. The old one will still have the red X through the icon, and the new one(s) will not.
- 8. Click on **All Readers** or the **Connection Group** (version 4 or higher) from the tree. On the right side of the screen, you will notice all of the readers listed with name, node ID, serial number etc.

9. Drag and drop the New reader on to the old reader for the 28SA+, or the new -1 serial number to the old -1 serial number for the ACP board. You will be asked to **Replace the reader**, click **Yes**. This will clone the original reader settings in to the 'new' reader. Repeat for the -2 serial number when using the ACP board. Right click on the Location Name and select **Login**. Now all the readers should log-in and show a green check next to each reader. Be sure to Send Users Full, and after the job has been completed the readers are now ready to be used.

10.7 Power Reset

A power reset does three things: 1) it changes the node ID to each reader, 2) it defaults the readers password back to 12345, and 3 it resets the baudrate back to 38400.

- 1. Disconnect power from the reader or panel (including any backup battery)
- 2. Hold down the reset button.
- 3. While holding the reset button, restore power. Continue holding the button for a few seconds. This procedure will change the node ID for the reader(s). You must now find the reader(s) as new to the system and then clone them.

To clone the readers after a power reset:

- 1. From the **Tree View**, right click on **All readers** or a **Connection Group** (version 4 or higher).
- 2. Select New.
- 3. Select Readers.
- **4**. Select Quick Find (with less than 20 readers), or Search (with more than 20 readers).
- 5. SK-NET will find the original reader(s) as new ones.
- 6. Click OK to bring them into the system. Do not log in at this time.
- 7. Look under All Readers or the Connection Group (version 4 or higher) and you will notice that you now have duplicate reader(s) names. The old one will still have the red X through the icon, and the new one will not.
- 8. Drag and drop the New reader(s) on to the old reader(s) with the same name. You will be asked to Replace the reader, click Yes. This will clone the original reader settings in to the 'new' reader. Right click on the Location Name and select Login. Now all the readers should log-in and show a green check next to each reader.

10.8 NET-CONV-P (RS232to RS485) Connection Failure

If you cannot connect and you are using the NET-CONV converter, measure the following voltages:

- 1. Measure input voltage from the converter power supply, it should read between 9vdc to 16vdc.
- Measure voltage between ground (minus side of the power supply) and TD (A), it should read 0vdc.
- **3.** Measure voltage between ground (minus side of the power supply) and TD (B), it should read 2.5vdc to 5vdc.

If these voltages are not correct, disconnect J8 from all the ACP boards or disconnect the network connection from the 28SA+ readers and re-measure.

- If the voltage is correct, then connect one reader at a time and remove any reader which causes the voltage to change. The reader(s) which cause a big change in the voltage must be replaced.
- 2. If the voltage is still bad, then replace the converter.

10.9 New transactions are not appearing on the Transaction Screen

If you are not seeing your newest (or up to date) transactions then try the following procedures:

Are your transactions being filtered?

- 1. From the transaction view, select the filter icon.
- 2. Select the default button, click OK.

Are you logged into your Location?

- 1. From the tree view, open **All Readers** or the **Connection Group** (version 4 or above) to view your reader icon(s) and verify each reader has a green check mark next to each one.
- 2. If reader(s) do not have a green check mark (or have red lines through them) be sure that you are connected to that Location or Connection Group (version 4 or above).
- 3. If you are connected to the Location or Connection Group (version 4 or above) then click on the login icon located on the toolbar to login.
- 4. If you are not connected to the **Location or Connection Group** (version 4 or higher) then highlight it and select connect.

Have you excluded any transactions?

- 1. Right click on All Readers or the Connection Group.
- 2. Click on the **Transaction** tab.
- 3. Review all the **Transaction Types**, to see if there are any which have a check mark on the box beside each one. If you want the transaction to appear, uncheck the box(s) and close.

10.10 Cards show Void after creating a new Access Group

If you have added a new **Access Group** and the users for that group are showing void in the **Transaction** screen review the following:

Did you add the proper reader(s) in to the new group?

- 1. from the tree view, click on the Access Group.
- 2. You will need to drag and drop the reader(s) into the new group from All Readers or the Connection Group into the new Access Group. Click on the (+ or triangle) next to the Access Group to verify that all the reader(s) are now part of the group.
- 3. Click on Send Users Full to update your users.

Did you perform a card send?

1. Click on Send Users Full to update your user

10.11 Invalid Facility Code when using new cards

If you receive an Invalid Facility Code message from the transaction screen, perform the following steps:

- Go to to the 28SA+ or SK-ACP board and take a sample card with each facility code being used in the system. Press the reset button and within 8 seconds present each card to the reader while the reader (Secure Key) is flashing red/green.
- 2. Go back to the computer and select the reader where you just presented sample cards with all of the Facility Codes and right click and select **Properties**.
- **3.** Select the **Service tab**, and on the right side you will see all the codes you have entered.

If you have more than one reader in the system perform the following:

- 1. Click on the **Edit** button.
- **2.** Select the **Send All** button, this will send all the Facility Codes to all the readers in the system.
- **3.** Exit the reader properties, and be sure to **save the changes** when prompted.

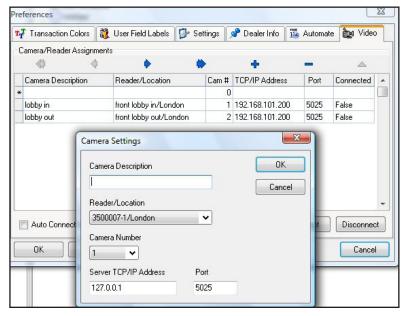
11. REMOTE EYES VIDEO INTEGRATION

11.1 The Remote Eyes® DVR

The Remote Eyes[®] DVR, manufactured by Odyssey Technologies Inc., integrates directly with SK-NET[™] version 3.05 or higher. SK-NET[™] captures all real time transactions and downloads them into the transaction database. In Remote Eyes[®], the same transaction data is actually burned into the Video Clip allowing the user to match the card information with a video clip showing the person using the card. This Video Clip and live video can be viewed directly from SK-NET[™] along with general searches of the video archive for events such as parking lot activity.

11.2 SK-NET[™] Set-up for Remote Eyes[®]

- 1. Left click on **File** on the menu bar.
- 2. Select Preferences, select the Video tab, click on the +.



- 3. Enter Host IP Address. This is the IP address of the DVR. Port is always equal to 5025.
- 4. User ID enter 'admin'. Password enter 'admin' (default).
- 5. Connect on Location Connect, place a check mark in the box if you want to connect to Remote Eyes whenever you connect to a location.
- 6. To create Camera/Reader Assignments, click on the + to add a camera and name it to describe the reader it is viewing.

11.3 Reviewing a Video Clip

There are three icons on the Transaction screen that control the Remote Eyes[®] system. To launch a view of the video clip for the transaction selected, click on the first icon. The second icon launches the Remote Eyes[®] application, and the third icon will display live video from the Remote Eyes[®] system.





Warning: SK-NET[™] software must be open and connected to the panels for the text insertion to take place in the video system.

Technical Support staff at Odyssey will assist new dealers in setting up the integration, including the SK-NET[™] portion.

Odyssey Technologies, Inc. Technical Support 888-291-6379 Monday – Friday 9:00 to 5:00 ET

Appendix A - SK-NET[™] FEATURES

SK-NET[™] is a Windows[®] (XP or greater) compatible software application program designed to monitor and control a network of up to 220 Secura Key ENTRACOMP[®] 28SA-Plus Smart Access Control Units, or 110 SK-ACP Two Door Advanced Access Control Panels.

The three main views that SK-NET[™] uses are:

SK-NET™ Explorer/Tree View Transactions Users



SK-NET™ Explorer allows the user to configure the reader network and create or modify access groups and reader groups.

Transactions shows reader and system activity for the all Locations.

Users shows where card user data is displayed and access privileges can be entered into the system.

SK-NET[™] Explorer/**Tree View** shows the current configuration of all Locations, Connection Groups, Reader Groups and Access Groups in the system. It allows you to add, delete, configure, or change Locations, groups or readers. When the Explorer/Tree View screen is displayed, you may use various toolbar buttons to print a reader report, show properties of selected items, delete items, connect to or disconnect from Locations, log in to or logout from readers, control doors for a selected reader group or a reader, or change the configuration display format.

The SK-NET[™] **Explorer screen** is divided into **two sections**: The left side shows the system configuration in an indented multi-level format (similar to Windows[®] Explorer). Each location, group, or reader is represented by an icon on screen. The right side of the screen shows individual icons for the currently highlighted location or group.

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The highest level in the Explorer Tree View configuration window is SK-NET[™] (the entire system) which includes all locations, groups, and readers controlled from the PC being used.

The second highest level is Location. A location includes all readers on a single network connected to the PC via a single COM port, TCP/IP address or a single modem location. Each Location can contain up to 128 28SA-PLUS units or 100 SK-ACP two-door panels.

A red triangle adjacent to the Location icon indicates that you are connected to that Location. Green check marks next to individual reader icons indicate that you are "logged in" to those readers. Being logged in means that transactions stored in the reader have been copied into the software and that you may view transactions as they occur in the Transaction screen.

The third level in the system is Groups. Each Location contains four default Groups: IN and OUT Readers, Master Users and Void Users.

Connection Groups define a means to access a reader gateway. They contain all readers that are visible through the reader gateway via RS-232, LAN connection or by modem. In the Multiple Location and Client/Server systems, more than one Connection Group can be created and connected simultaneously by connecting the Locations.

Because readers can belong to multiple groups, you will see the same icon appearing several times in the system configuration display.

To expand SK-NET^m, a Location, or a Group to the detail level, click on the "+" icon just to the left of the item you want to expand. The "+" icon changes to "-" when it is expanded. If there is no "+" or "-" icon next to a Location or Group that indicates that nothing has been assigned to that Location or Group.

The **Transaction View** shows the latest system events as they occur, for the Location which is currently connected to SK-NET[™].

System events include card usage, input point status changes, reader status changes, and system messages.

Each event is displayed on a single line, and includes the time and date of the event, card number (for card transactions), User Name (if the

name is stored in the database), Transaction Type (what happened), and Reader ID/Location (name of the reader and the Location to which the reader is connected).

The Transaction Window allows you to view the entire Transaction Database, by using the navigation buttons or the scroll bar to browse through the transaction records.

Transaction Database options include Print Transaction Reports, Erase, Change Colors, and Zoom In.

The Transaction Window normally shows data for all Locations (when filtering is not applied). Whenever SK-NET[™] connects to a Location, all new transactions stored at the readers are automatically uploaded.

The **User View** allows you to display or change the Card User Database. You can add new card users or edit current user records. You may use the scroll bar or navigation buttons to view the entire Card User Database. You can also print user reports, search for an individual user, or optionally, select user databases for multiple locations.

The User View defaults to a List format, one line per record. If you click on Zoom, the User Detail Screen is displayed for the currently selected user. You can also select a user from the list and double-click to display the record in User Detail format. Editing or adding cards is done by displaying the User Detail screen. The Navigation buttons work in either List or User Detail format.

Appendix B - WORKING IN WINDOWS

SK-NET[™] uses many common functions available in Windows[®]. For users who are new to Windows[®] software these are the functions you will need to know to use SK-NET[™].

ICONS and TOOL BARS:

Icons are little pictures that represent functions or files in the software. Most of the operations you will perform in SK-NET[™] begin by pointing at and clicking on an icon. Most icons in SK-NET[™] will display a "prompt", a word description of the icon, when you point the cursor at it.

Toolbars appear at the top and on the left side of each screen in SK-NET[™]. Toolbars contain icons that allow you to perform functions or open files in the program. The topmost toolbar will be comprised of words. Clicking on these words brings "drop-down menus" listing functions that you may select.

MOUSE BUTTONS:

When we direct you to **"CLICK"** on something, we mean that you move your cursor with the mouse to point at that item and then you tap the left button on the mouse once. This is usually done to select or highlight an item. When we tell you to **"DOUBLE CLICK"**, the only difference is that you tap on the left button twice in rapid succession. This is usually done to launch a program or to start a function.

When we tell you to **"RIGHT CLICK"**, tap on the right mouse button once. This is used to bring up a menu box that pertains to the item you are pointing at.

When we tell you to **"DRAG-AND-DROP"** you first point the cursor at the item, then hold down the left mouse button and, while holding that button down, move the cursor to the location where you want to "drop" the item you are "dragging". When the item is in the new location, release the left mouse button to "drop" it. We use drag-and-drop in the Explorer screen to make it easy for you to add individual readers to access groups and hardware groups.

EXPLORER:

One of the principal screens in SK-NET[™] is SK-NET EXPLORER. This view is modeled after the well-known Windows[®] Explorer. On the left-hand side of the screen you will see all of the elements of your system in a

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"tree" format. If an item in the tree has a plus (+) or minus (-) symbol next to it, it represents a folder. Clicking on the + symbol "opens" that folder and displays what is inside. For example, the folder called **"New Connection1"** may contain an icon for every reader in the system. Clicking on the + symbol next to the **New Connection1** icon will display icons for each reader, underneath the **New Connection1** heading.

On the right-hand side of the screen you will see icons representing whichever part of the Explorer tree you have highlighted. For, example, if you CLICK on **New Connection1**, the right-hand side of the screen will display one icon for every reader in that **Connection Group**.

HELP:

SK-NET[™] has extensive help, which you can access by clicking on Help on the top menu bar, or by pressing F1. Much of the information in this manual is also included in the on-line Help System.

To learn more about the functions of various icons or "buttons", click on Help or press F1, select Contents, Getting Started, then SK-NET[™] Desktop. Pressing F1 in the main windows (Explorer, Transactions or User Manager) also offers context-specific help for those screens.

SK-NET[™] - GLOSSARY

Access Group – A set of cardholders who are valid at the same readers and have the same time zone restrictions. Groups are ideal for multidepartmental facilities with different time schedules. **Section 5.14**

Block Of Cards – A contiguous group of cards in sequential card-number order. **Section 3.5**

Connection Group – Connection Groups define a means to access a reader gateway. It contains all readers that are visible through the reader gateway via RS-232, LAN connection or by modem. See Appendix A.

Connection Wizard – A special function where SK-NET software automatically goes through the various COM ports and baud rates on your system to make a connection. This function can be found by rightclicking a Location, selecting Properties, choosing the Connection tab, then clicking on the Connection Wizard icon. NOTE: The conncetion wizard can now search for LAN connections. **Section 3.2**

Door Controls – A group of commands that affect the door or gate at a connected location. Door controls can be initiated in real time, using the SK-NET software. The system operator has the capability of controlling whether is a door is unlocked or locked, and whether the reader is inactive or active. **Section 5.30**

Door Schedule – A time zone that is specifically assigned to a door, which causes the door to automatically lock and unlock according to a regular weekly time schedule. **Section 5.18**

Hardware Password – The default password for your SK-ACP or 28SA Plus reader is "12345". **Section 8.4**

Holidays – The system operator can enter up to 32 holidays that will use the Holiday Schedule in the system time zones, instead of the normal schedule for the day of the week. This allows access to be restricted or different than normal on Holidays. **Section 5.20**

"IN" / **"OUT" Readers** – When a room or area has readers on both sides of each door to control both entry and exit, the readers controlling entry can be assigned to an IN group, and readers controlling exit can be assigned to an OUT group. This allows the access control system to track the status of each cardholder to determine if the cardholder is IN or OUT of the area. It also allows the system to control the cardholder's direction of movement and to prevent card passback by invoking the Anti-Passback feature, which prevents an IN or OUT reader from being used twice in succession by the same cardholder. Section 5.25

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Inputs – These are circuits that connect external sensors or switches to an SK-ACP or 28SA-Plus. Status changes on these circuits can initiate special functions or generate messages in the transactions screen. Various input types can be defined, including Tamper, Arming (loop detector), door monitor, request-to-exit (remote open), Bell, Remote Inactive (disable reader), and User Defined. **Section 5.31**

Limited Use Cards – A contiguous range of 4000 cards can be defined to have this feature. These cards are valid for a specific number of uses, days or weeks. After the preset limit is reached, the cards become void. Limited use cards can be defined for a single location or a single reader. **Section 5.8**

Location – A location is a group SK-ACP panels (and connected readers) or 28SA-Plus readers networked together via RS-485 and operating as a unified system. **Section 4**

Output (relay) – Relays are electromagnetically controlled switches located on the SK-ACP control panel. When actuated, they complete power circuits connecting external devices and their external power supplies, operating door strikes, gate actuators, and annunciators (horns, bells, or flashers). The SK-ACP has a latch relay and an auxiliary relay. The latch or access relay is actuated when a card access request is granted. The auxiliary relay can be configured to activate for various conditions such as emulating the status of an input, or for an alarm condition such as door-held, door-forced, emergency exit, error alarm, tamper alarm, or a card transaction in a specified range, etc. **Section 5.33**

Reader Group - A set of readers created for the purpose of defining common properties for those readers. **Section 5.28**

Real Antipassback (RAPB) – This feature can be assigned to a Time Zone, and it controls cardholder movement using designated IN or OUT readers. If a card was last used at an IN reader, it must be used at an OUT reader before it will be valid at an IN reader again. This feature was originally developed for parking garages to prevent an authorized cardholder from passing his card back to an unauthorized user after entering the lot. **Section 5.9**

Real Antipassback Forgive – This command resets all cards to a neutral in/out status, allowing the next card use at either an IN or OUT reader. It can be invoked for all readers or for a specific reader. It can be scheduled to occur daily at a specified time (usually early in the morning) or it can be manually invoked for all cardholders, a specific cardholder number range, or for a single cardholder. **Section 5.10**

Renaming Readers – After SK-NET[™] initially locates readers, it assigns the default name for the readers, which is usually the serial number with a dash one or dash two indicating connection to the right or left hand reader input. It is recommended that the system operator "rename" their readers with a meaningful name (such as their physical location) to better identify them when doing maintenance. **Section 3.3**

SK-NET-DM – This version of SK-NET[™] is primarily used for a "direct connect" from the access control system to the COM port on a single computer. A single TCP/IP connection is also allowed. **Section 1.2**

SK-NET-MLD – This version of SK-NET[™] is needed when there are multiple locations, and some locations are connected to the computer using a modem or a LAN adapter. It is required for multiple TCP/IP connections. It also includes badge printing capabilities. **Section 1.2**

SK-NET-MLD- CSXX – This is the Client/Server version of SK-NETTM, which is used when there are multiple locations, and more than one user needs to access the database simultaneously. The SK-NETTM database is loaded on a Server computer, and multiple Client Workstations can access the Server on the same network. Client/Server licenses can be purchased for 2, 5, 10, or 15 workstations. **Section 1.2**

Software Password – Upon opening the SK-NET[™] software, you will be prompted to enter a username and password. The default username when first opening the software is "admin", and the password is "12345". **Section 3.1**

Timed Antipassback (TAPB) – This feature must be assigned to a Time Zone 2 to 15. After a card is used at a reader with Timed Antipassback, that card will not be valid at that reader for a predetermined amount of time. **Section 5.8**

Time Zone – A schedule that determines which days of the week and hours of the day that a cardholder can obtain access at an associated door. Each weekday is divided into 48 half-hour segments that can be defined as Void or Valid for access by the system operator. A Holiday time schedule can also be defined for each Time Zone (see Holiday). **Section 5.2**

Transactions – These are various system events, such as cardholder access granted/denied, alarm status changes, power failures, door lock/unlock commands, etc., which are stored in transaction history with the time and date that they occurred. Reports can be printed and saved in either .pdf or .xls format. **Section 7**

SYSTEM COMPONENTS

PANELS

SK-ACP-LE	Large enclosure
SK-ACP-NE	No enclosure (board only)

SOFTWARE

SK-NET-DM	Basic SK-NET™ with Disk & Manual
SK-NET-MLD	SK-NET [™] w/ Multi-Location, Dial-Up and multiple TCP/
	IP Communications, For 1 User, includes ID Badge Printing
	Capability
SK-NET-MLD-C/S	Multiple User Workstations, Multiple Locations via Dial-Up Modem and Multiple TCP/IP Communications (2, 5, 10, 15 user licenses available)

ACCESSORIES

NET-CONV-P:	RS232 to RS485 converter with power supply
SK-MDM:	External 56K modem
SK-LAN-MOD:	Network Adapter, plug-in
SK-WLS-MOD:	Wireless LAN Adapter, plug-in
CBLSA:	Cable kit for use with laptop computers
SK-QUICKCONN:	DB9 to RJ11 6' cable - Laptop to SK-ACP
SK-PLUG9:	DB9 female computer connector
SK-USB:	USB to RS-232 converter for computers without COM ports
SK-LOCK:	Optional lock and keys for SK-ACP enclosure
SK-ACP-PS:	Power supply kit including transformer and battery
SK-24VDC:	24VDC, 500 mA plug-in power supply
SK-XFRMR:	16.5 VAC, 40VA plug-in transformer w/ground
	(Must be used with SK-DCPWR)
SK-DCPWR:	Filtered DC power supply board
	(Must be used with SK-XFRMR)
DTK-XR:	Surge protection for power, data and phone lines
DTK-CR:	Surge protection for card readers and keypads
SK-BAT:	2.0AH – 12VDC battery only



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