



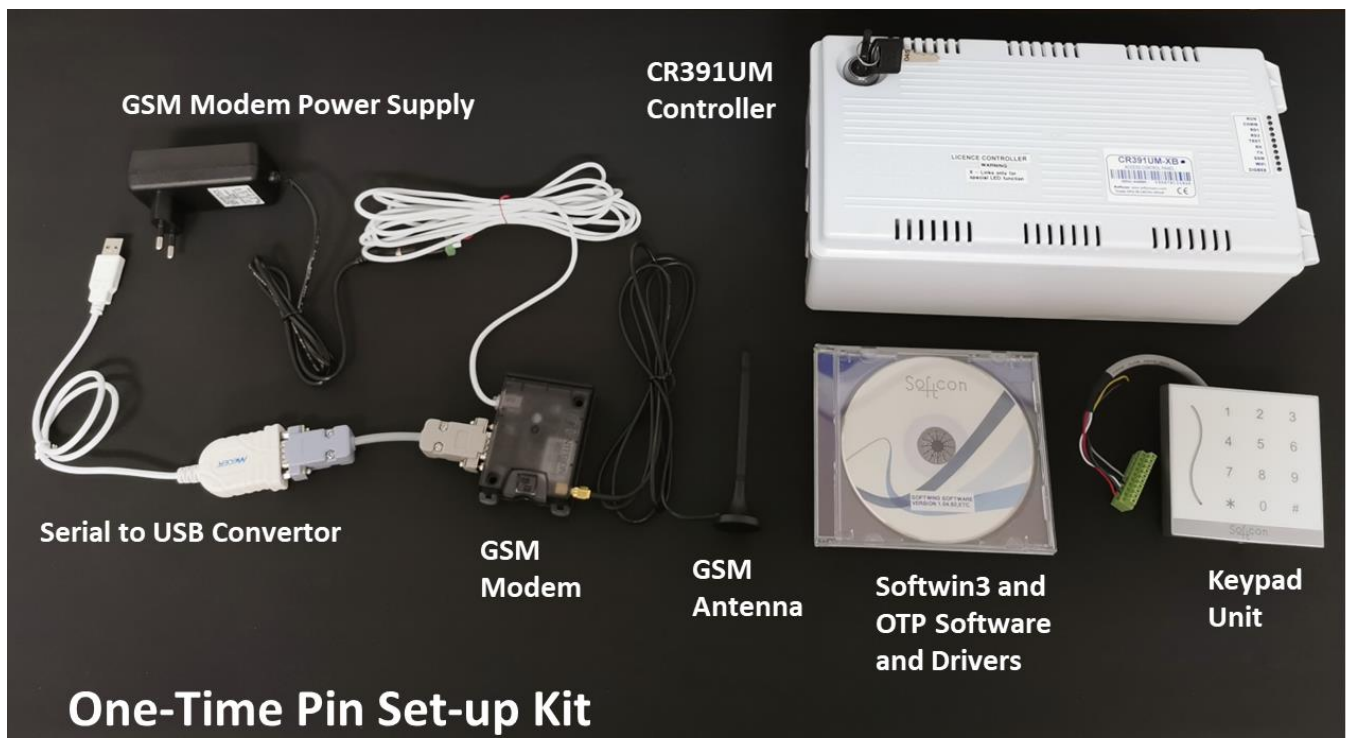
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Sw3 OneTimePin Installation Guide

V001 2023-01-20

Requirements

- **Softwin3** Access Control Software with associated License Keys.
- **SCS_OTP** Software Application with associated License Keys.
- A compatible **GSM Modem** with associated drivers and cables..
- An activated **Sim Card** with airtime or **SMS** bundles for above Modem.
- Softcon Controller/s to control access points where OTP will be used.
- Compatible **keypad unit/s** connected to controller/s above to take OTP.



One-Time Pin Set-up Kit

What is SC_OTP?

An One-Time Pin application is an add-on to your access control system.

The One-Time PIN application is great for pre-enrolment or self-enrolment of visitors.

The OTP application allows for an One-Time PIN to be sent to a visitor/user via SMS, before his/her expected visit to the premise.

The visitor will use his/her One-Time PIN to gain access to predetermined access controlled areas equipped with a keypad unit.

The OTP Application allows for predetermined visitor times to be allocated to each user and access will be automatically revoked when the visitor periods elapse.

Summary of Set-up Steps:

The following Steps will be followed to implement the OTP system:

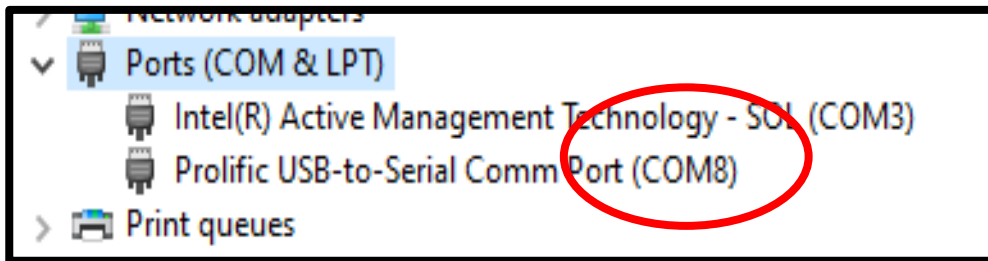
(It is assumed that you have loaded and activated the Softwin3 software and Licensed Controller).

1. Setup your **GSM Modem**.
2. Setup and activate the **Softcon OTP** application (**SC_OTP**).
3. Configure **Softwin3** to communicate with the modem (setup **External Link**).
4. Configure the **Departments** and **Area Groups** to be visited.
5. Setup **PIN function** on controllers that will use Keypad/s.
6. Configure **Windows Firewall** settings to allow communication.
7. Testing the **SC_OTP** Application

Step1: Setup your GSM Modem

- Insert an activated **SIM** card with airtime or SMS bundle, into your **GSM modem**.
- Load the **Drivers** for your **GSM modem** onto the pc you are connecting it to.
- Connect your **GSM Modem** to your pc with the serial-USB cable and power-up with Power Supply.
- Place your **GSM modem antenna** in position for best reception.
- Open **Device Monitor** for Windows and verify the port number allocated to the GSM Modem under **Device Manager/ Ports (Com & LPT)**.

In the example below the port number for our GSM Modem is 8.

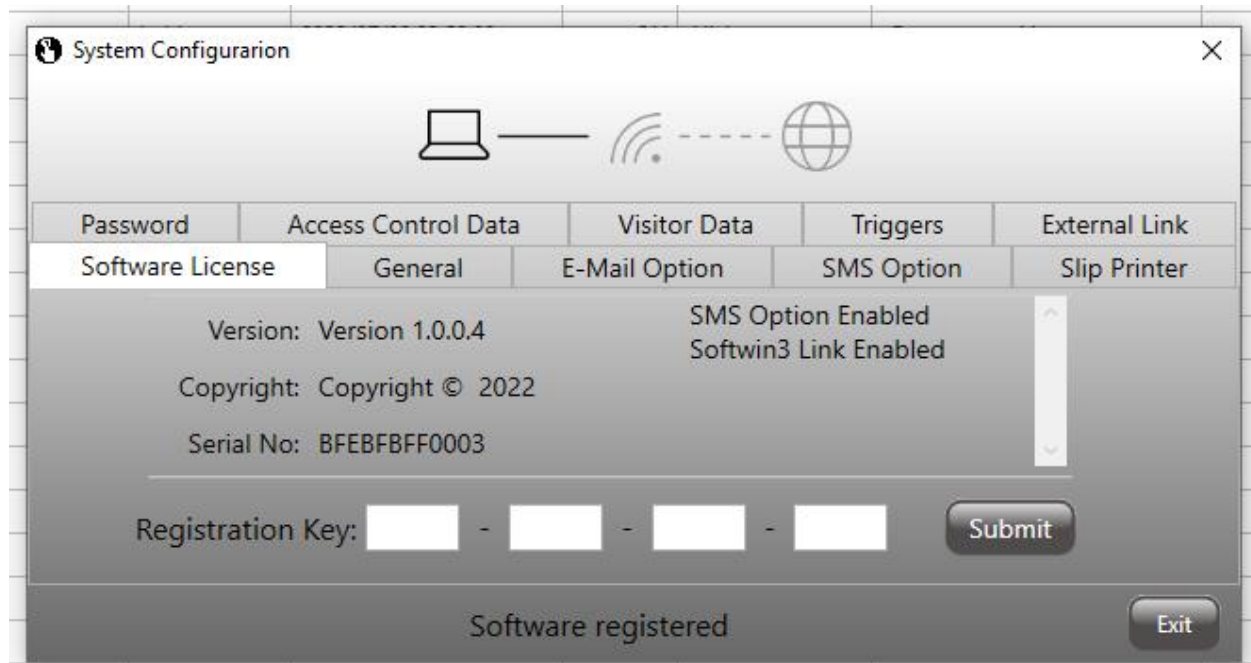


Step2: Setup and activate the SC_OTP application

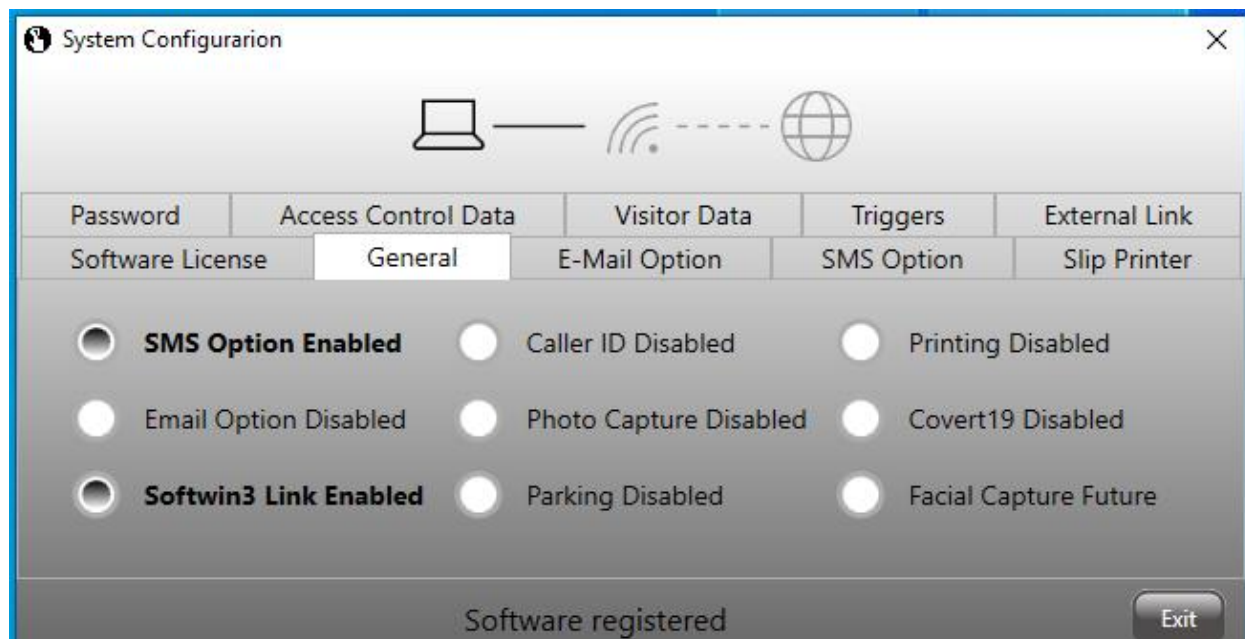
- Load the **SC_OTP** software application on your pc.
- Open **SC_OTP** and *Right-Click* on the **Softcon logo**.
- Select **System Configuration**
- The default password to access all system configuration menus is "**Admin**".



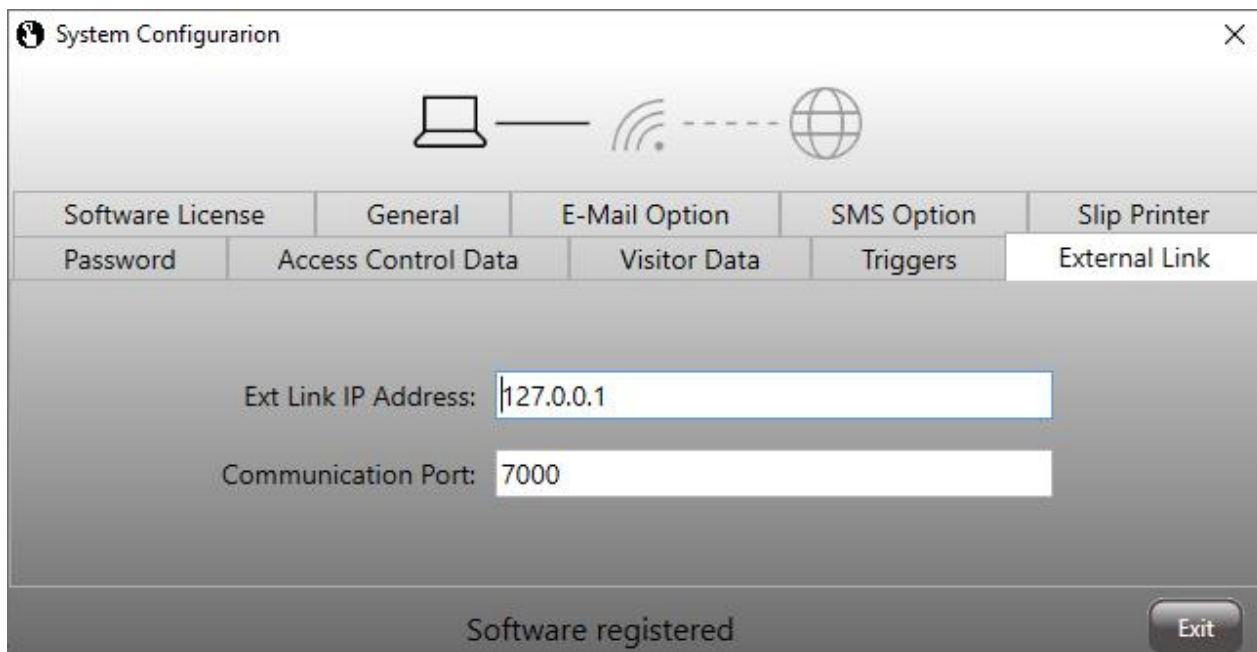
- Select the **Software License** Menu to enter your Software Registration Keys and press *Submit*.



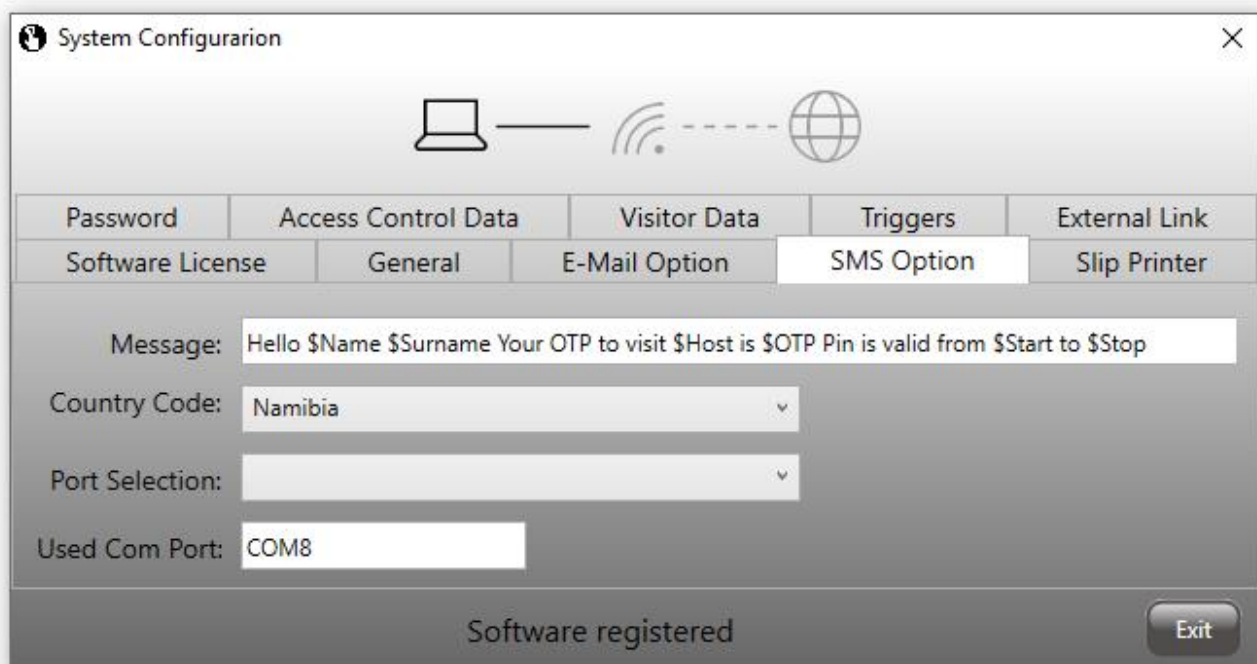
- Under **System Configuration / General**, select the enabled features according to your license agreement:
Example below: **SMS Option Enables** and **Softwin3 Link Enabled**



- Open System **Configuration / External Link External** and enter Link IP Address as **127.0.0.1** and Communication Port: **7000**

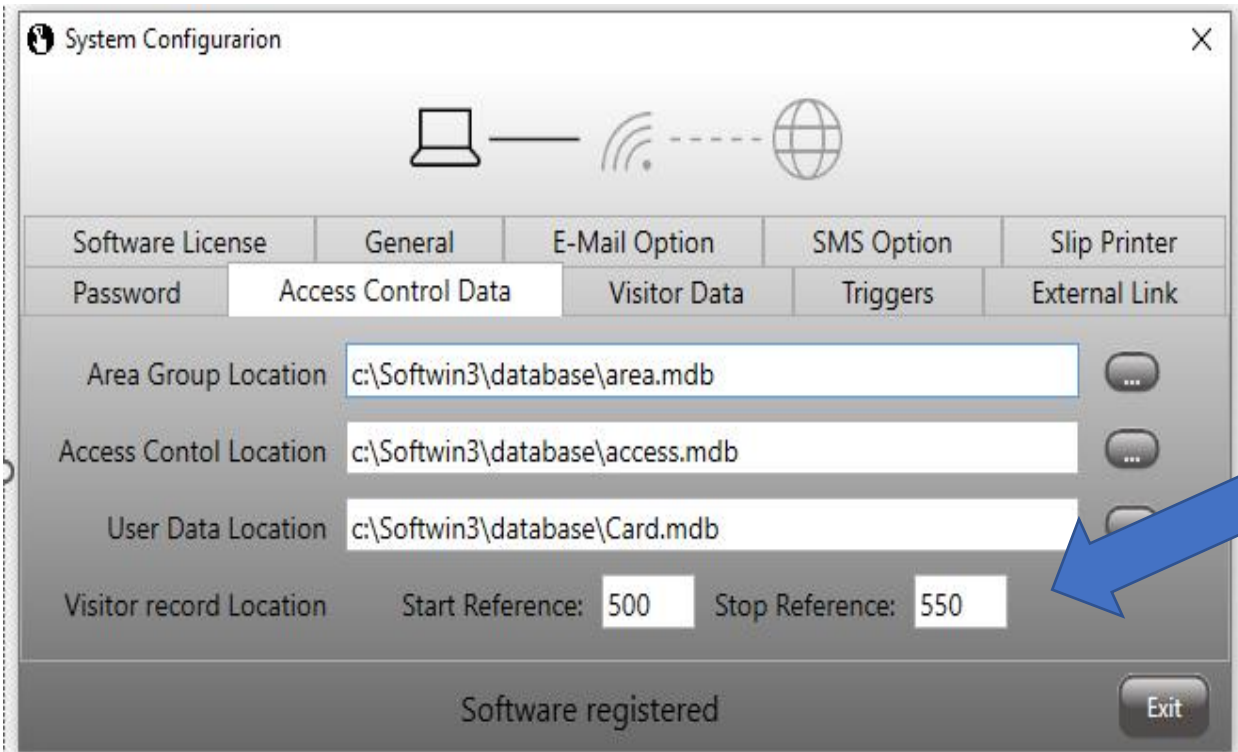


- Open System **Configuration / SMS Option** and enter the Com Port Number as verified under *Device Manager* in Step1.
- Your SMS message template sent with the OTP can be edited under the **Message** section.
- Select the default **Country Code (International dialling code)** by selecting your country from the drop-down list.



Setup **System Configuration / Access Control Data:**

- **Visitor record location** is where you specify where OTP users will be allocated in the card database.
- When OTP Users are enrolled, as per below example, their User details will be allocated between **500** and **550** in the user database.
- In the below sample, there will be only 50 spaces allocated for visitors.
- Make sure you allocate enough records for your visitors. (Maximum estimated visitors plus extra to be allocated).
- Once complete, exit System Configuration Menu.



The screenshot shows the 'System Configuraron' window with the 'Access Control Data' tab selected. The 'Visitor record Location' field is highlighted with a blue arrow, indicating the range of records allocated for visitors.

Software License	General	E-Mail Option	SMS Option	Slip Printer
Password	Access Control Data	Visitor Data	Triggers	External Link
Area Group Location	c:\Softwin3\database\area.mdb			
Access Contol Location	c:\Softwin3\database\access.mdb			
User Data Location	c:\Softwin3\database\Card.mdb			
Visitor record Location	Start Reference: 500	Stop Reference: 550		

Software registered Exit

Step3: Configure Softwin3 to communicate with the GSM modem

Setup the **External Link** that will allow comms between the GSM modem and the **Softwin3** software:

- Open **Softwin3** software and select **Setup/Setup Editor: External Links** and activate 2 x **SCS_Client** Applications as in example below:

OTP System: TCP, Port: 7000, Host 127.0.0.1, Name: Your Server PC Name /IP Address

OPT Server: TCP, Port: 7890, Host 127.0.0.1, Name: Your Server PC Name / IP Address

Ref	Application	Name	PC	Talk	Port	Host	Status
1	SCS_Client	OTP SYSTEM	Laptop-Support	TCP	7000	127.0.0.1	On-line
2	SCS_Client	OTP SERVER	Laptop-Support	TCP	7890	127.0.0.1	On-line

- In **Softwin3** select **Setup/Setup Editor: External Link Messages** and activate 4 x Link Messages:

- 1.) OTP System: Message: T3000
- 2.) OTP System: Message: T2100
- 3.) OPT Server: Message: T3000
- 4.) OPT Server: Message: T2100

Ref	Link	Message
1	OTP SYSTEM	T3000
2	OTP SYSTEM	T2100
3	OTP SERVER	T3000
4	OTP SERVER	T2100

- Select Menu: **Setup/External System Link** and select Type as **"Softcon"**.

External System Link

External System External File

Vending External Vend Item

Users Use Token Number

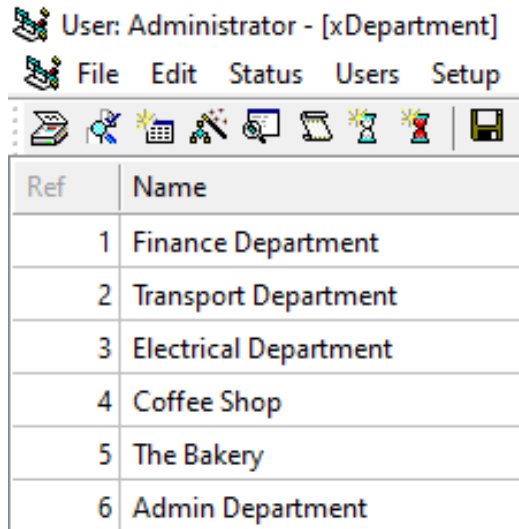
Token1 Mask {F_CD_NUM}

token 2 Mask {F_CD_NUM2}

Type Softcon

4. Configure your Departments to be visited

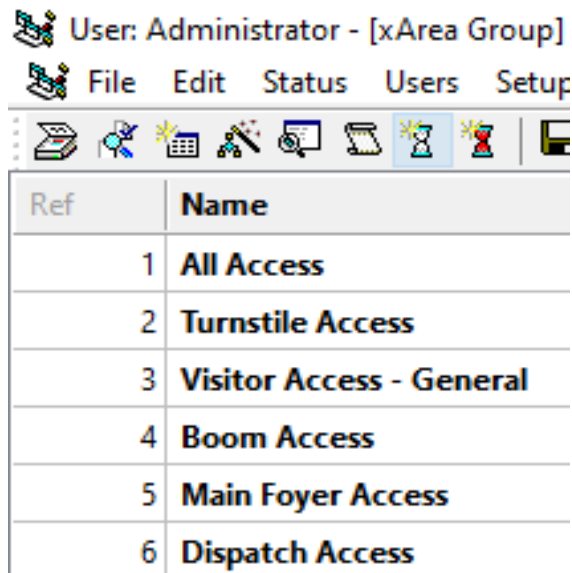
- This section describes how to setup and edit *Department* names.
- This will be the selectable *Departments* selected on the OTP application.
- In **Softwin3** select menu select: **Users / User Editor / xDepartment**
- Create and edit your own custom details for available “departments” at your premise.



The screenshot shows a software interface titled "User: Administrator - [xDepartment]". It features a menu bar with "File", "Edit", "Status", "Users", and "Setup". Below the menu is a toolbar with various icons. The main area contains a table with two columns: "Ref" and "Name".

Ref	Name
1	Finance Department
2	Transport Department
3	Electrical Department
4	Coffee Shop
5	The Bakery
6	Admin Department

- To create and edit your own *Area Groups* select: **Users / User Editor / xArea Group**
- This is the areas where visitor will be allowed to enter their OTPs to gain access.



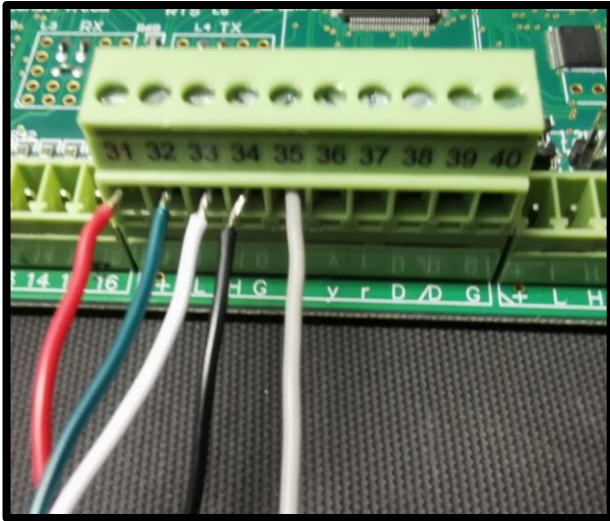
The screenshot shows a software interface titled "User: Administrator - [xArea Group]". It features a menu bar with "File", "Edit", "Status", "Users", and "Setup". Below the menu is a toolbar with various icons. The main area contains a table with two columns: "Ref" and "Name".

Ref	Name
1	All Access
2	Turnstile Access
3	Visitor Access - General
4	Boom Access
5	Main Foyer Access
6	Dispatch Access

5. Keypad Setup with PIN function

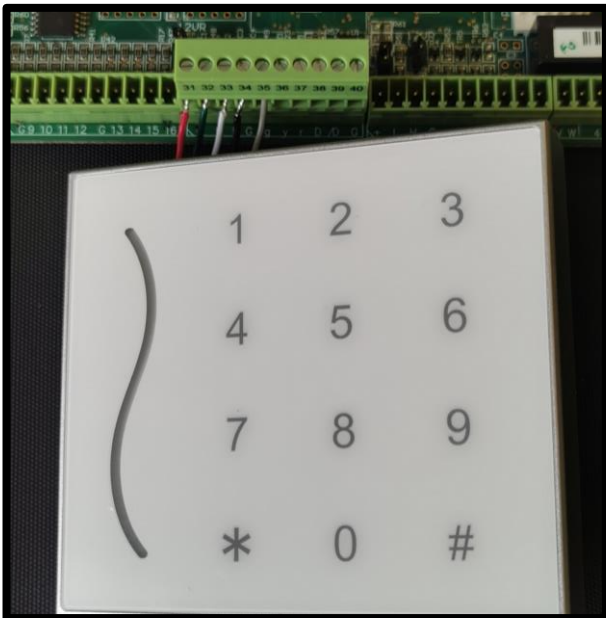
A compatible keypad will be connected to the Reader port/s of the controller/s where users will enter their OTPs.

A **Pro-ID-30** keypad is used in the example below:



Keypad Connections:

RED = “+” 12V Supply
Green = “L” Wiegand in 0
White = “H” Wiegand in 1
Black = “G” Supply Ground
GREY = ‘g’ Green LED



Important Note:

Remove the Hand-Held (**HH**) jumper on the controller to enable keypad function. Keypad will not work with HH jumper inserted.

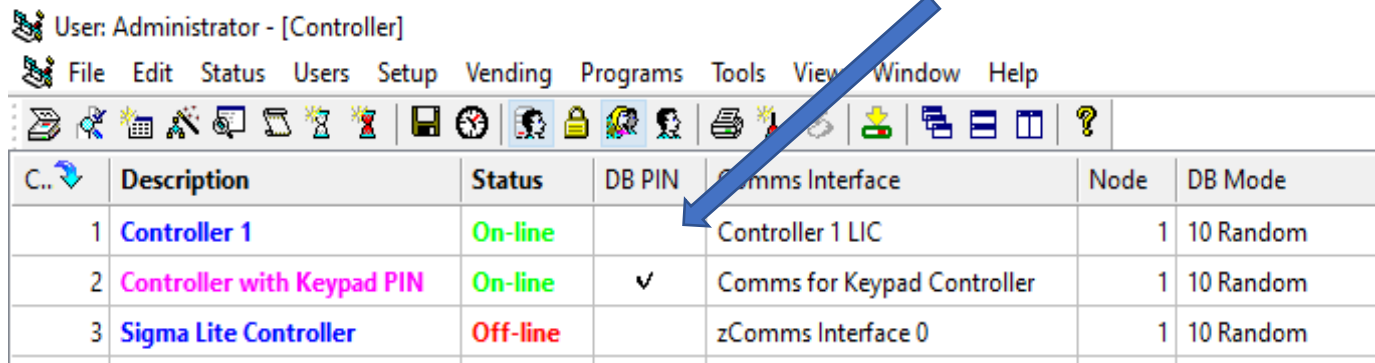


The PIN function must be enabled for all controllers working with keypads:

- Select: **Setup / Setup Editor / Controller**
- Activate **DB PIN** on the controller/s that will be equipped with Keypad Units.

User: Administrator - [Controller]

File Edit Status Users Setup Vending Programs Tools View Window Help



C..	Description	Status	DB PIN	Comms Interface	Node	DB Mode
1	Controller 1	On-line		Controller 1 LIC	1	10 Random
2	Controller with Keypad PIN	On-line	✓	Comms for Keypad Controller	1	10 Random
3	Sigma Lite Controller	Off-line		zComms Interface 0	1	10 Random

- **Inform the controller that keypads will be used:**
- Select: **Setup / Setup Editor / L-CR351-5 Set-up.**
- Right-click on the Controller that will have the keypad connected to them.
- Select "**Rd not enforced**" for **Reader TG**.
- Select "**PIN not enforced**" for **PIN TG**.

CR351/5 Setup

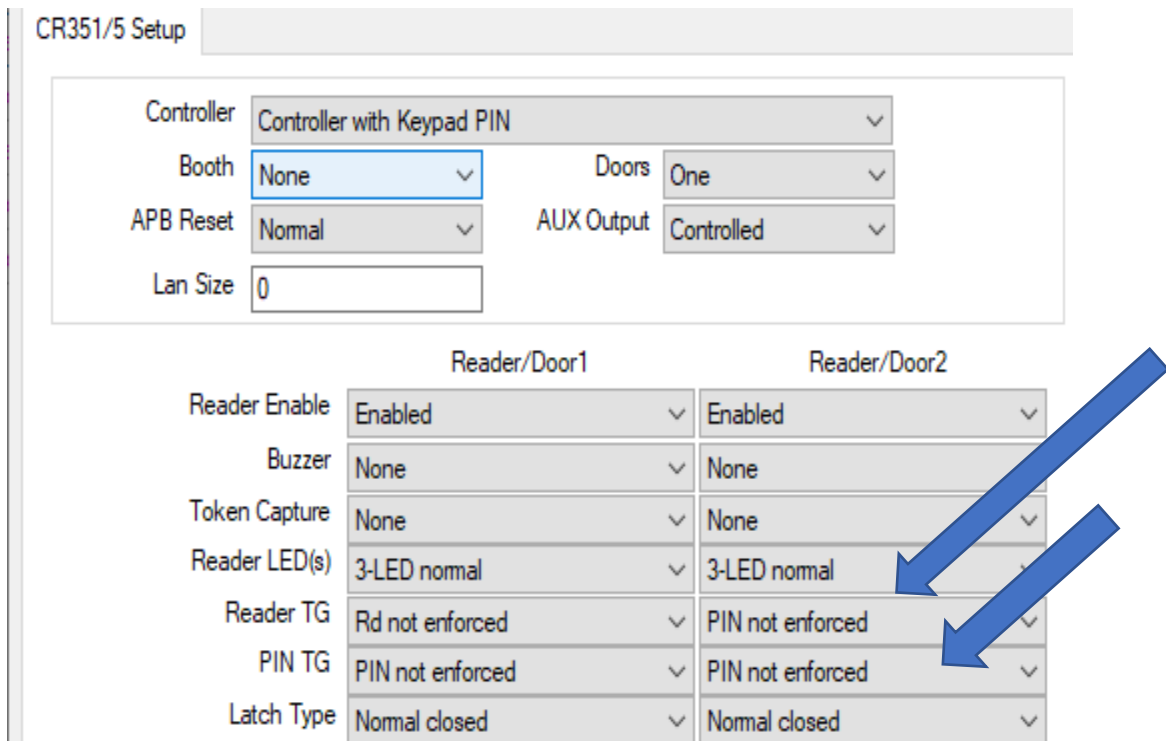
Controller: Controller with Keypad PIN

Booth: None Doors: One

APB Reset: Normal AUX Output: Controlled

Lan Size: 0

	Reader/Door1	Reader/Door2
Reader Enable	Enabled	Enabled
Buzzer	None	None
Token Capture	None	None
Reader LED(s)	3-LED normal	3-LED normal
Reader TG	Rd not enforced	PIN not enforced
PIN TG	PIN not enforced	PIN not enforced
Latch Type	Normal closed	Normal closed



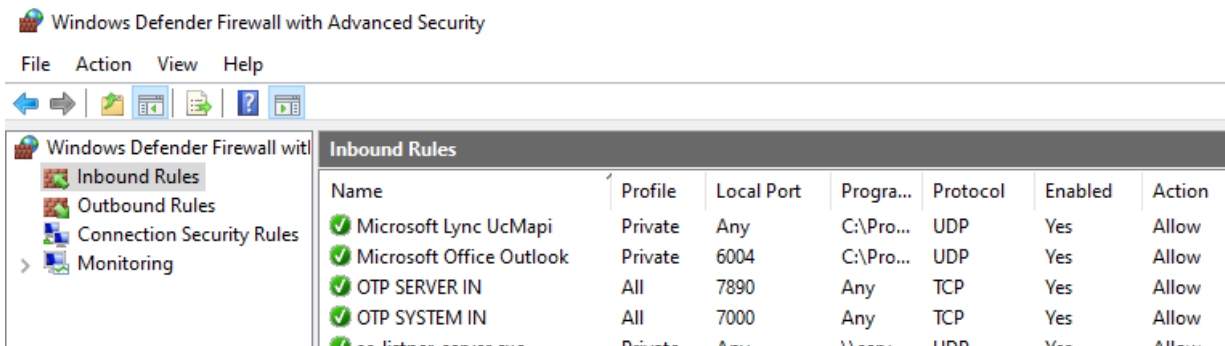
6. Configure Windows Firewall settings

Some ports are blocked, by default, by **Windows Firewalls**.

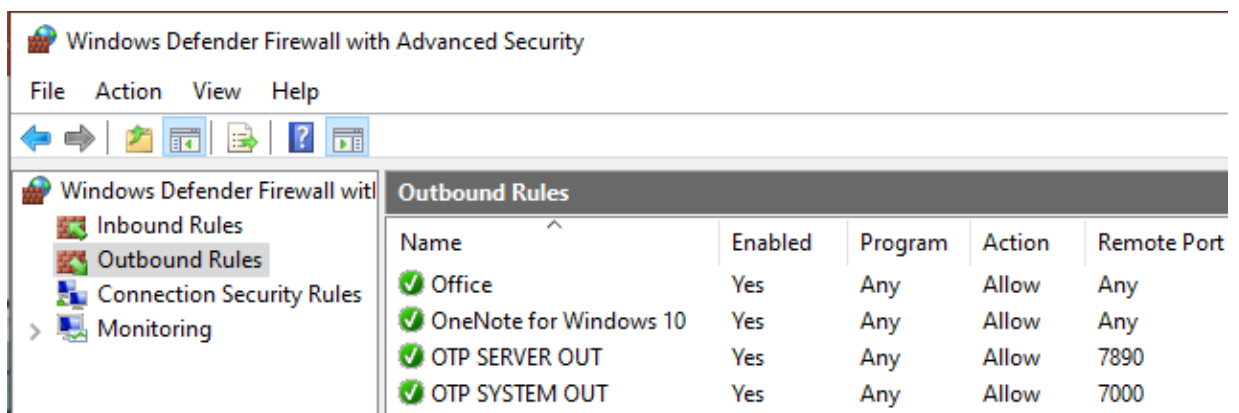
- To open the newly created port 7000 and 7890 under Step3, open **Windows Defender Firewall**:



- Under **Advanced Settings**, create two new **Inbound rules**:
OTP SERVER IN and allow full access to port **7890**
OTP SYSTEM IN and allow full access to port **7000**

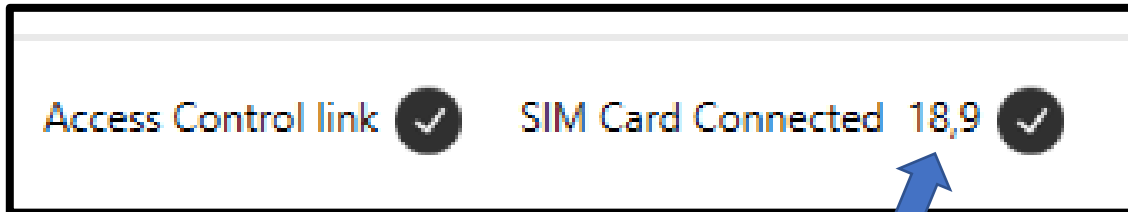


- Under **Advanced Settings**, create two new **Outbound rules**:
OTP SERVER OUT and allow full access to port **7890**
OTP SYSTEM OUT and allow full access to port **7000**



7. Test SC_OTP Program

- Open the **SC_OTP** application on your desktop.
- The **Access Control Link** and **Sim Card Connected** icons at the bottom of the landing page should show a tick, when connected.
- Signal Strength of the GSM Modem is displayed at the right of **Sim Card Connected**
- The signal strength must be higher than **9** to be operational.
- Adjust your GSM Antenna for best position and signal strength.



External Link Connected

GSM Signal Strength

Testing SC_OTP Program

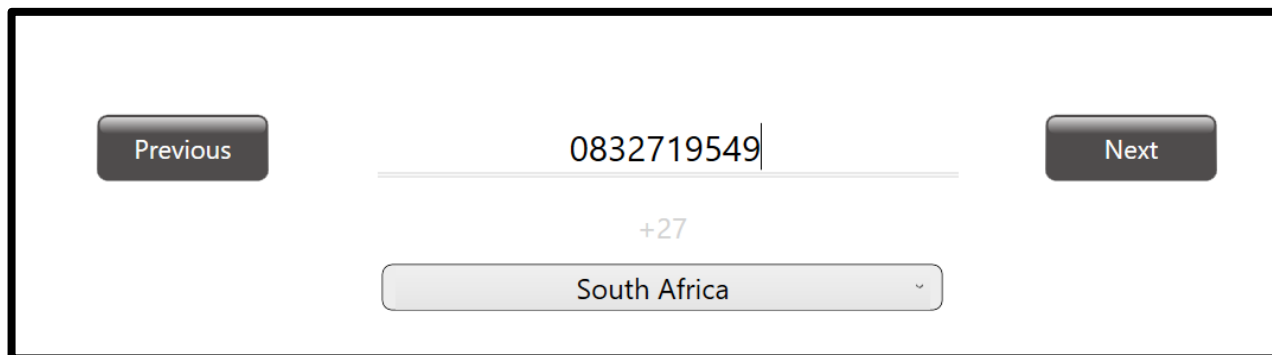
- Open the **SC_OTP** program on the desktop
- Enter Visitor Start and Stop Date and Times
- Enter the assigned **Area Group** the Visitor is authorised to use during the visit period.
- Assign the appropriate "**Department**" that the Visitor will visit. *(To add/adjust Departments, see Step4 above)*



One Time Pin System

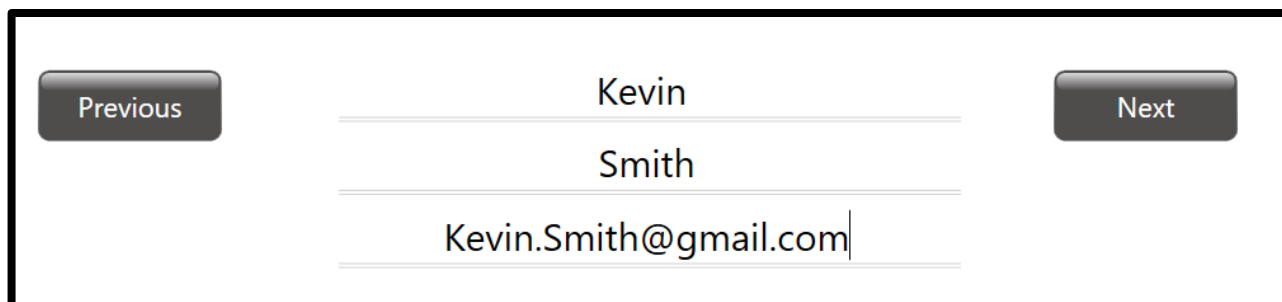
Start Date	<input type="text" value="2022/07/25"/>	<input type="text" value="15"/>	<input type="text" value="10 : 30"/>	<input type="text" value="▲"/>	<input type="text" value="▼"/>	} Allowed Entry Period
Stop Date	<input type="text" value="2022/07/25"/>	<input type="text" value="15"/>	<input type="text" value="13 : 00"/>	<input type="text" value="▲"/>	<input type="text" value="▼"/>	
	<input type="text" value="Visitor Access - General"/>					← Allowed Area Group
	<input type="text" value="Admin Department"/>					← Assigned Department

- Enter visitor Mobile Number in blank Space
- Select appropriate Country from drop-down menu and press *Next*. (The default country setting can be edited as described in Step2)



A screenshot of a form for entering a mobile number. On the left is a dark grey button labeled "Previous". In the center is a text input field containing "0832719549" with a vertical cursor at the end. Below the input field is a dropdown menu showing "+27" and "South Africa" with a small downward arrow on the right. On the right is a dark grey button labeled "Next".

- Enter the visitor Name and Surname.
- Enter visitor email address and press *Next*.



A screenshot of a form for entering visitor information. On the left is a dark grey button labeled "Previous". In the center, there are two stacked text input fields: the top one contains "Kevin" and the bottom one contains "Smith". Below these is a third text input field containing "Kevin.Smith@gmail.com" with a vertical cursor at the end. On the right is a dark grey button labeled "Next".

- A summary page is displayed with the enrolled visitor details.
- The generated **OTP (One-Time Pin)** is displayed at the top of the page.
- Press *Submit* to send the detail via SMS or *Edit Info* to return to previous pages.

OTP



Softcon
59012

Start Date: 2022/07/25 10:30 **End Date:** 2022/07/25 13:00

Access to: Visitor Access - General

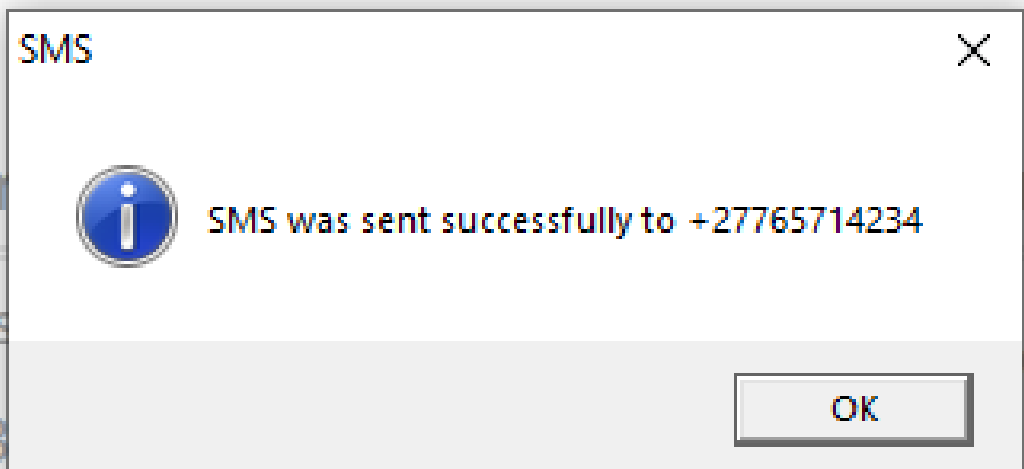
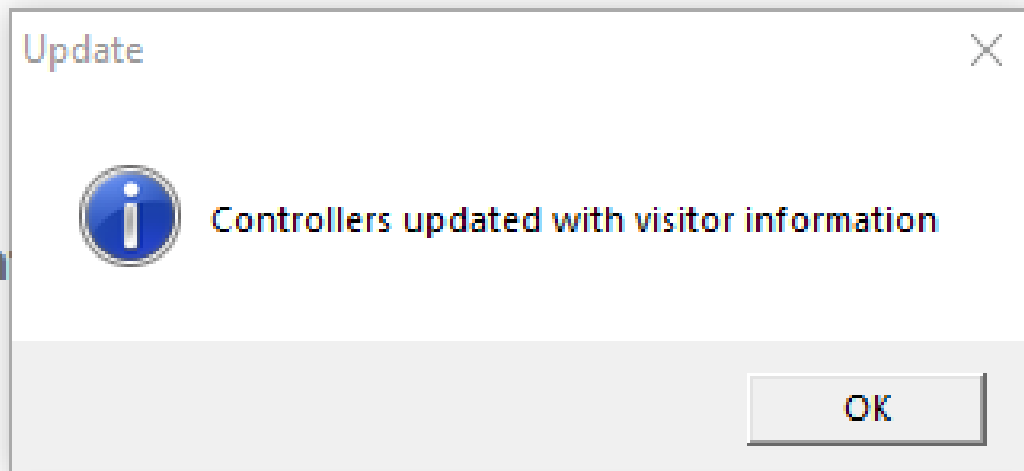
<p>Visitor Information</p> <hr/> <p>Kevin Smith 0832719549 Kevin.Smith@gmail.com</p>	<p>Host Information</p> <hr/> <p>Admin Department</p>
---	--

Two confirmation messages are displayed for each successful OTP sent:

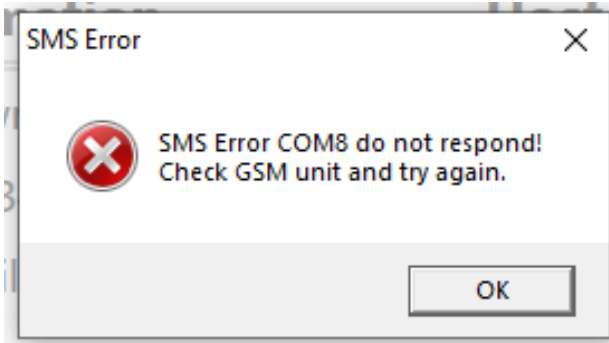
- **SMS:** Confirms SMS sent to displayed mobile number.
- The visitor will receive OTP and details of Department authorised to visit.
- The template SMS message is editable as described in Step2.

- **Update:** Confirms access permissions have been uploaded to the controllers.
- The access authorization will be sent to all PIN associated controllers.

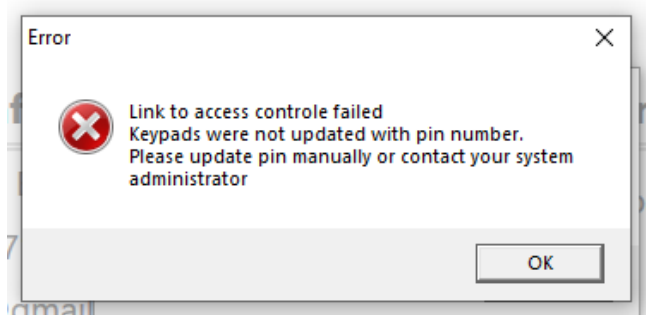
- **Important Note:**
- An OTP must be followed by a '#' sign when entering it at any keypad.



Error Messages and Notes:



- Check USB Cable connection to GSM Modem
- Check GSM Modem – is SIM loaded with airtime?
- Check GSM Antenna – Strong signal?



- Is Softwin3 program active?
- Is OTP Server running?
- Is Controllers online?

"Rd-not-found " Error

Make sure you have entered data in the Token/Card Column under Card Admin. Users will not be displayed on activity monitors unless associated with a card number.

Keypad not Working:

Remove the Hand-Held (**HH**) jumper on the controller to enable keypad function. Keypad will not work with HH jumper inserted.

