

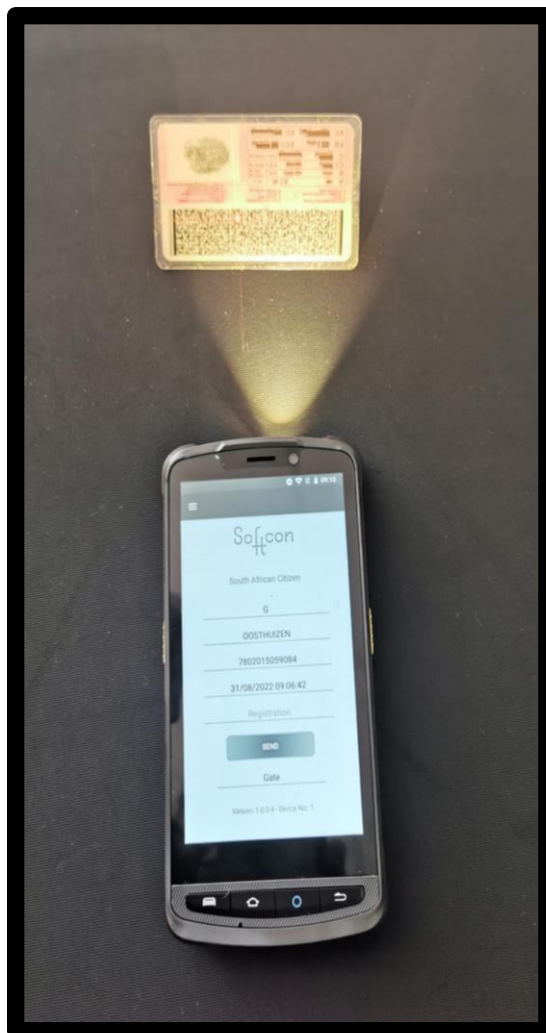


www.softconserv.com

## SCS\_Scan

V001 2023-01-20

# Visitor Register Application



## Electronic Visitor Registry System

The **Softcon Barcode Scanner** can be integrated with **Softwin3** Access Control Software, to create an electronic visitor registry system as demonstrated below.

The Barcode Scanner will scan the details of each visitor (ID Book, Driver's License and/or License Disc) and write it into the database of the Softwin3 Software.

The above can replace the old, written visitor registry book method, improving traffic flow and automating access control at entrance/ exit points.

### System Requirements:

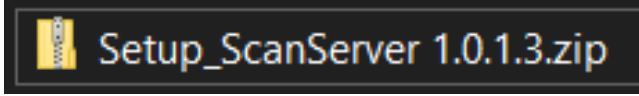
- Softwin 1.04.62 Software
- Scan\_Server Application Software
- Softcon Scanner
- Activation License Keys for each Scanner Unit
- Wi-fi Router



## 1.) Install the SCS\_Scanner software

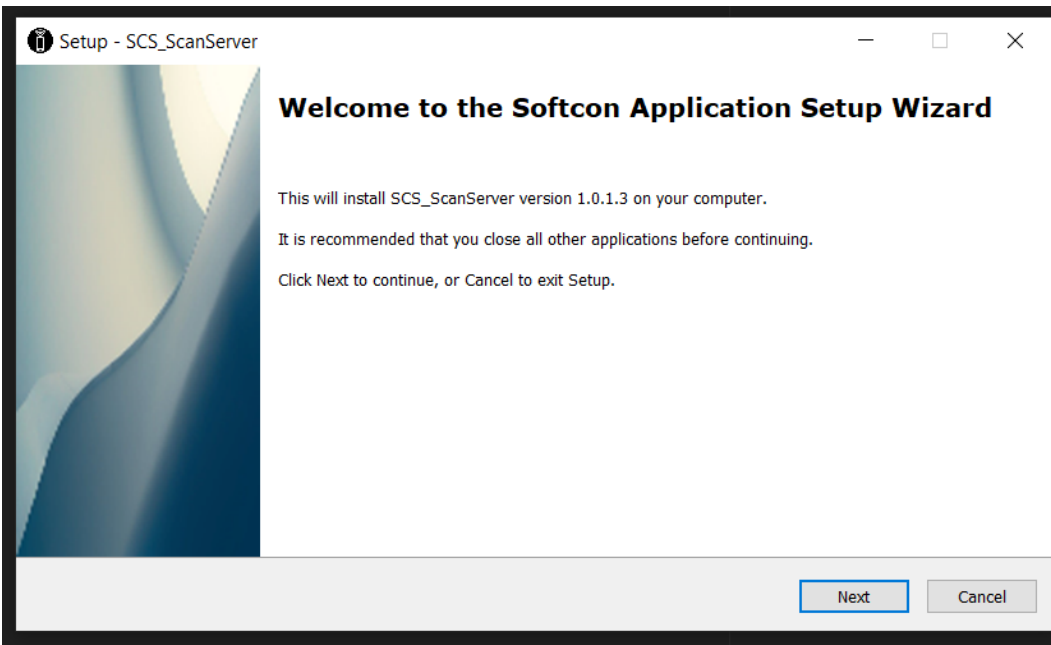
Install the **Softcon Scanner Server** application software on the server pc.

- Unzip **Setup\_ScanServer**:

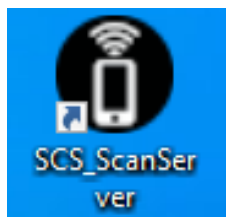


- Run application:

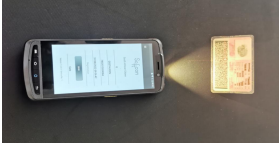
Name	Date modified	Type	Size
Setup_ScanServer.exe	2022/09/14 13:58	Application	1 877 KB



- A shortcut will be installed on your Desktop:



## 2.) Setup your Wi-fi link between Scanner and pc



The **Softcon Barcode Scanner** will require a **Wi-Fi link** to operate wirelessly and communicate with the server pc.

### 2.1 Wi-Fi Setup:

Install a compatible wi-fi router in the same IP range as your server pc.

#### In our Setup Example below:

- Our Wi-Fi router was configured to IP Address: **192.168.100.1**
- The router was set to assign IP Ranges: **192.168.5 to 254**
- Our Wi-Fi access point was named **SC-Scan**
- Once the router is setup, you can connect your server pc to it.
- Our Server assigned PC IP Address: **192.168.1.5**

#### Note:

The wi-fi router must be installed in a location to ensure good wi-fi connectivity in the area where the **Barcode Scanner** will be utilized.

#### Internet Protocol Version 4 (TCP/IPv4) Properties

##### General Alternative Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address: . . .

Subnet mask: . . .

Default gateway: . . .

Obtain DNS server address automatically

Use the following DNS server addresses:

Preferred DNS server: . . .

Alternative DNS server: . . .

Validate settings upon exit

Advanced...

OK

Cancel

#### DHCP Mode

This page can be used to config the DHCP mode:None,DHCP Relay or DHCP Server.

(1)Enable the DHCP Server if you are using this device as a DHCP server. This page lists the IP address pools available to hosts on your LAN. The device distributes numbers in the pool to hosts on your network as they request internet access.

(2)Enable the DHCP Relay if you are using the other DHCP server to assign IP address to your hosts on the LAN. You can set the DHCP server ip address.

(3)If you choose "None", then the modem will do nothing when the hosts request a IP address.

LAN IP Address: 192.168.100.1

Subnet Mask: 255.255.255.0

DHCP Mode: DHCP Server

Interface:  LAN1  LAN2  LAN3  LAN4  WLAN  VAP0  VAP1  VAP2  VAP3

IP Pool Range: 192.168.100.5 - 192.168.100.254 Show Client

Subnet Mask: 255.255.255.0

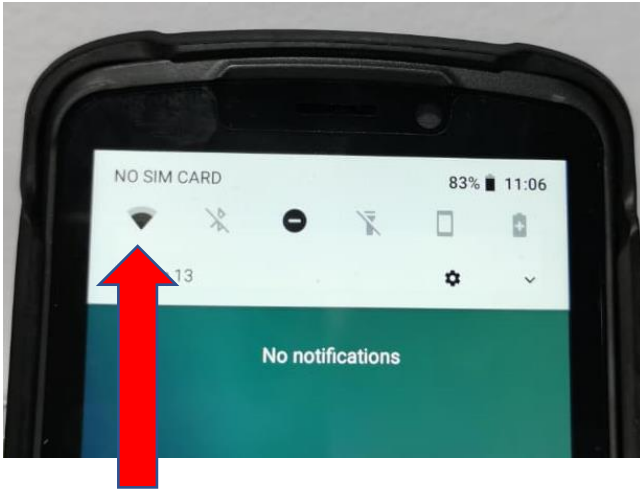
#### Wi-Fi Router Setup

#### Server PC Network Adapter Setup

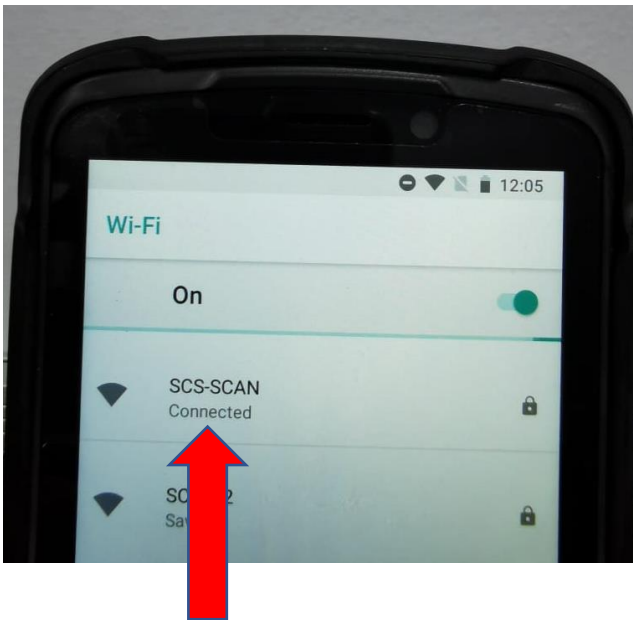
### 3.) Connect the Scanner to Wi-Fi access point

- Switch the **Softcon Scanner** ON, by pressing the **Power Button** on the right of the unit.

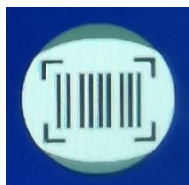
Connect to scanner to the new Wi-Fi access point you created in step 1:



- Pull the top menu down to view the available wi-fi connections.



- If your router is configured successfully, the scanner should be able to connect to it.
- Once connected to the wi-fi router, open **SC\_Scanner App** on the desktop of the scanner unit:

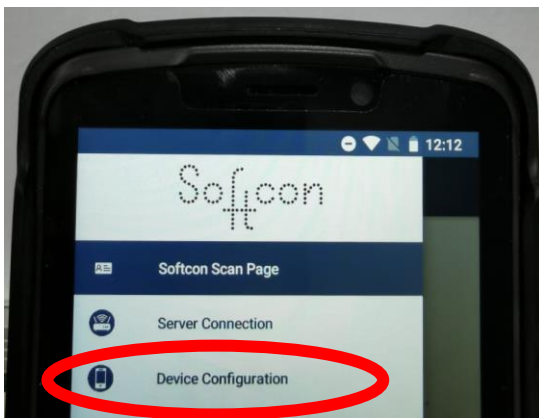


## 4.) Scanner Device Configuration Setup

- Open **SC\_Scanner App** on the desktop of the scanner unit:
- Open the Main Selection Menu, top left of screen:



- Select **Device Configuration** sub Menu:



- Name your Scanner Device and Save:



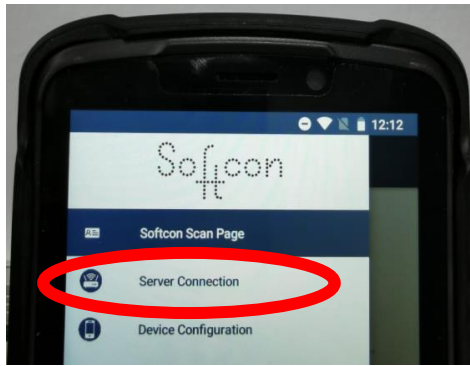
Scanner Name/ Identifier.

Scanner number.

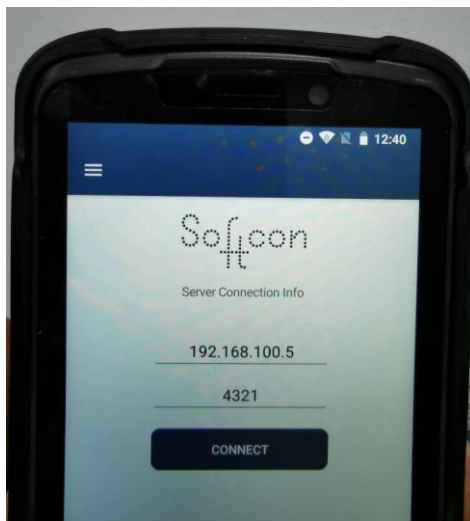
This is the serial number of this unit

## 5.) Scanner Server Connection Setup

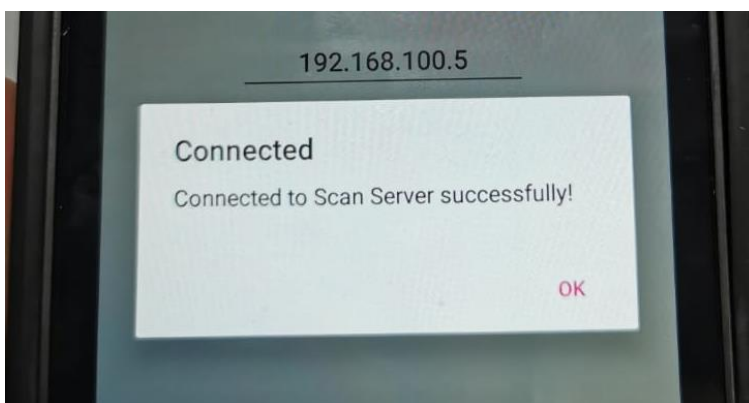
- Open Main Selection Menu top left and open **Server Connection** menu.



- Enter the IP Address of your **Server PC**:



- The Scanner will use port **4321** for the application.
- You will get a confirmation message, once the connection was successful:



## 6.) Scan Server Configuration

- Open the **SCS\_ScanServer** program on the pc Desktop.
- Select the **Configuration** sub-menu from the top left menu.

### 6.1) User Allocation :

**Start Number** and **Stop Number**: The range in the database where users will be allocated.  
(Example: 500-601 equals to 101 users stored from Xref 500 to Xref 601 in the database)  
Select appropriate **AreaGroup** for scanned users.

Softcon Scan Server Version:1.0.1.3

Scan Activity Connections **Configuration** Server Connection ✓ Softwin3 Connection ✕

**Softwin3 User Database Selection**

Start Number  Stop Number  Area Group Link

**Add New Device**

Device No  Device Name  Device Serial No  Entry Reader:  Exit Reader:

**Current Device Configuration**

Device No	Device Name	Entry Ref	Entry Reader	Exit Ref	Exit Reader	Serial No	Verify Only	Register
-----------	-------------	-----------	--------------	----------	-------------	-----------	-------------	----------

### 6.2) Adding a Scanner:

Here you will enter the details of the scanner unit as setup in Step4:

**Device Number: 1** (Identifying Number: This is the first scanner used on this site)

**Name: Scanner1** (Identifying Name: The name / area of the scanner)

**Serial Number:** (The serial number of the Scanner Unit as in Step 4)

**Entry Reader** will be the reader linked to the controller that will activate the Entrance Boom.

**Exit Reader** will be the reader linked to the controller that will activate the Exit Boom.

Select **Add Device** and the device appears in the bottom device list:

Device No  Device Name  Device Serial No  Entry Reader:  Exit Reader:

**Current Device Configuration**

Device No	Device Name	Entry Ref	Entry Reader	Exit Ref	Exit Reader	Serial No	Verify Only	Registered
1	Scanner1	1	Controller1 Reader1	2	Controller1 Reader2	89d254d70f8fca74	No	No



## 7.) Registering your Scanner Devices

- You will need **Activation Keys** to register each scanner unit.
- To register your scanner, right-click on the unit listed under Devices.

**Device Configuration**

**Add** Device No:  Name:  Serial No:  Reader: zRD 0  Verify only

Device No	Device Name	Reader Ref	Reader Name	Serial No	Verify Only	Registered
1	Visitor Gate	5	Visitor Boom Read 1	316f24d9dce59631	No	No

- Edit Device
- Register
- Remove

- Enter your **Activation Keys**, one at a time, and **Add** them, one at a time.
- When all keys are entered, you can click on **Register**.
- You will receive a confirmation message for each successful registration:

Softcon Scan Server Version:1.0.0.2

Scan Activity Connections Configuration WiFi Connection  Softwin3 Connection

Device registration for serial number: 316f24d9dce59631 **Return**

**Not Registered**

**Add**

67344747316F4B45  
31496E5530395746  
6959614467513D3D

**Register**

**Registration**

**i** Registration completed successfully

**OK**

Once registration is done, device will indicate a **YES** at **Registered**:

### Current Device Configuration

Device No	Device Name	Entry Ref	Entry Reader	Exit Ref	Exit Reader	Serial No	Verify Only	Registered
1	Scanner1	1	Controller1 Reader1	2	Controller1 Reader2	89d254d70f8ca74	No	Yes

## 8.) Connections Menu Setup

- Under **Connections** menu you will verify the details and port number as entered in Step 5.
- Server IP (Your server pc IP Address) and Port Numbers are entered as below:

Softcon Scan Server Version:1.0.1.3

Scan Activity **Connections** Configuration Server Connection ✓ Softwin3 Connection ✕

Current Server IP Address found : 192.168.1.20

Server Link IP Address  Port Number

External Link IP Address  Port Number

- Press Connect after each selection.

## 9.) Scan Activity Menu

- Enter the **Scan Activity** menu.

Softcon Scan Server Version:1.0.1.3

**Scan Activity** Connections Configuration Server Connection ✓ Softwin3 Connection ✕

Date and Time	Initials	Surname	ID Number	Registration	Device Name	No	Serial	Mode
---------------	----------	---------	-----------	--------------	-------------	----	--------	------

- This Menu can be used to test scanner activity. All scanned data will appear in the activity window.

Softcon Scan Server Version:1.0.1.3

Scan Activity **Connections** Configuration Server Connection ✓ Softwin3 Connection ✕

Date and Time	Initials	Surname	ID Number	Registration	Device Name	No	Serial	Mode
13/01/2023 14:50:41	G	OOSTHUIZEN	7802015059084		Scanner1	1	89d254d70f8fca74	Entry

- Scanned Drivers License data displayed under Scan Activity Menu.

## 10.) Configure Softwin3 to communicate with the Scanner

### 10.1) External Link Setup

Setup the **External Link** that will allow comms between the **Scanner** and the **Softwin3** software:  
Open **Softwin3** software and select **Setup/Setup Editor: External Links** and activate 1 x **SCS\_Client** Applications as in example below:

- Name: Create your own name for the Link: **SCS\_SCAN LINK**
- Application: **SCS\_Client**
- PC: **Your Server PC Name**
- Port: **Always use 9876 for this Scanner Application**
- Talk: **TCP**
- Host: **Always use 127.0.0.1**

User: Administrator - [External Links]

File Edit Status Users Setup Vending Programs Tools View Window Help

Ref	Name	Application	PC	Port	Status	Talk	Host	Da
1	SCS_SCAN LINK	SCS_Client	Server-PC	9876	Off-line	TCP	127.0.0.1	
2								

### 10.2) External Link Messages Setup

- In **Softwin3** select **Setup/Setup Editor: External Link Messages** and activate 2 x Link Messages:

- 1.) SCS\_SCAN Message: **T3000**
- 2.) SCS\_SCAN: Message: **T2100**

User: Administrator - [External Link Messages]

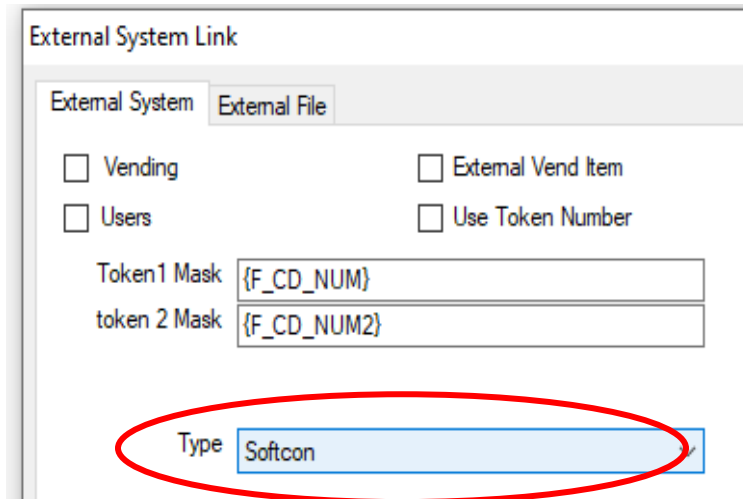
File Edit Status Users Setup Vending Program

Ref	Link	Message
1	SCS_SCAN	T3000
2	SCS_SCAN	T2100
3		

### **10.3) External System Link Type Setup:**

Select Type of communication:

- 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

### **Please Note:**

Some ports might be blocked, by Firewall Software.

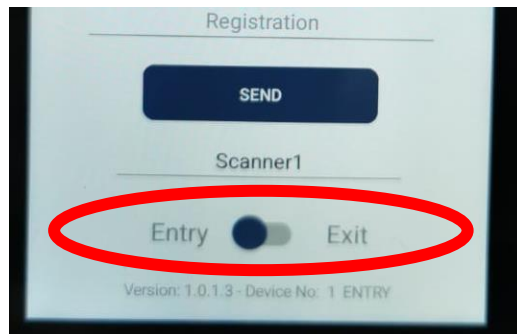
If you experience communication issues, verify that port 9876 and 4321 are not blocked.

## 11.) How to Scan a Visitor

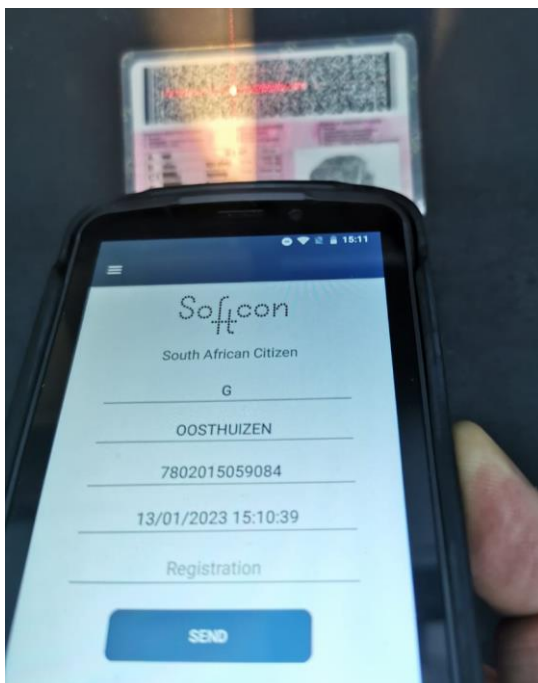
- On the Scanner Unit, select **Softcon Scan Page**:



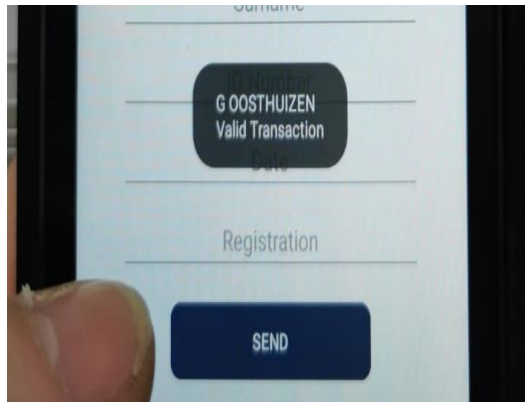
- Select **Entry** or **Exit**, depending on whether you are scanning users IN or OUT.




- Point the scanner towards the ID, License or Disc barcode and press either of the scan buttons on the unit.
- Sweep the scanner unit across the barcode until information is read onto the screen.
- Press **SEND** to download the data to the software.




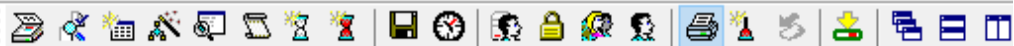
- A **Valid Transaction** message will appear on the Scanner if a user has been successfully entered in to the Softwin3 database.
- An **Invalid Transaction** message will appear on the scanner if a user is not found in the current database.



- A new entry will be made under **User Admin** containing the scanned user details.
- The entry will be saved in the allocated location as assigned in Step6.1.

 User: Administrator - [User Admin]

 File Edit Status Users Setup Vending Programs Tools View Window



Xref	Surname	Status	Name	Area Group	ID Number
497	<b>zCard 497</b>	Disabled		zArea group 0	
498	<b>zCard 498</b>	Disabled		zArea group 0	
499	<b>zCard 499</b>	Disabled		zArea group 0	
500	<b>OOSTHUIZEN</b>	Enabled	G	Factory Staff	7802015059
501	<b>zCard 501</b>	Disabled		zArea group 0	

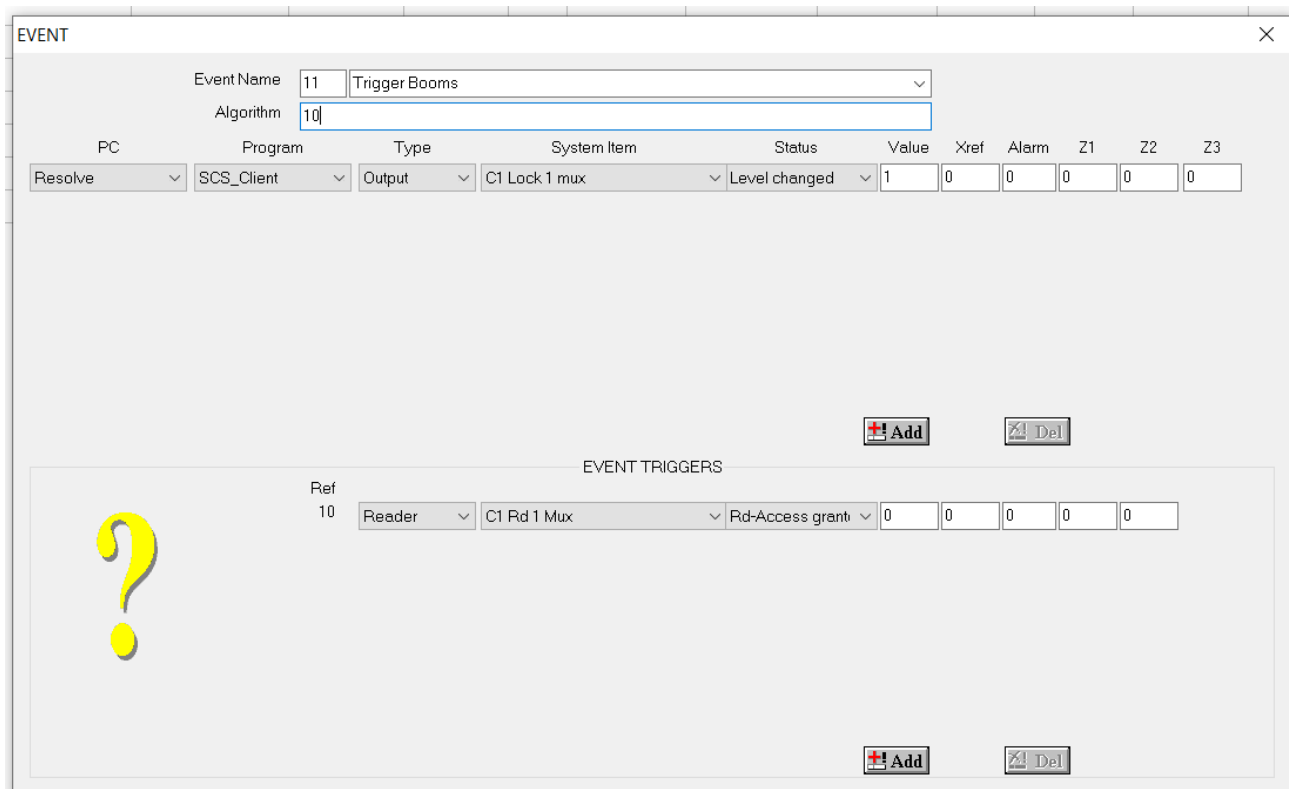


## 12.) Activation Booms

The Scanner can be used to activate outputs (such as booms) to allow for automatic access, once a user's data is captured.

Once a user's data is scanned at the Entry Point, a boom can be triggered by making use of Events. The reader settings as selected in Step 6.2 can be used in an Event to trigger the associated output to trigger the boom.

Similarly an Event can be written to allow the **Exit Boom** to open when a user is scanned **OUT**.



The screenshot shows a software window titled "EVENT" with a close button (X) in the top right corner. The window is divided into two main sections: "EVENT" and "EVENT TRIGGERS".

**EVENT Section:**

- Event Name: 11 Trigger Booms
- Algorithm: 10
- PC: Resolve
- Program: SCS\_Client
- Type: Output
- System Item: C1 Lock 1 mux
- Status: Level changed
- Value: 1
- Xref: 0
- Alarm: 0
- Z1: 0
- Z2: 0
- Z3: 0

**EVENT TRIGGERS Section:**

- Ref: 10
- Reader: Reader
- C1 Rd 1 Mux
- Rd-Access grant
- 0
- 0
- 0
- 0
- 0

There are "Add" and "Del" buttons in both sections. A large yellow question mark is visible on the left side of the "EVENT TRIGGERS" section.