



www.softconserv.com

## SCS\_HIKvision Facial Readers

V001 2023-01-20

### Scope

This document is a guide to using *HIKvision Facial Readers* with *Softwin3*.

### Requirements

- **Softwin3 Ver. 1.04.62** Software
- **SCS\_Bio 1.04.62** Software
- **SCS\_Softwin3 HIKvision** Software
- **Activation Keys** to register HIKvision facial reader

### Steps

1. **Hardware Setup**
2. **Softwin3 Setup**
3. **SCS\_HIKvision Setup**
4. **Using SCS\_HIKvision**



Ref	Name	IP Address
83	Name 83	192.168.1.203
84	Name 84	192.168.1.201
85	Name 85	192.168.1.203
86	Name 86	192.168.1.201
87	Name 87	192.168.1.203
88	Name 88	192.168.1.201
89	Name 89	192.168.1.203
90	Name 90	192.168.1.201
91	Name 91	192.168.1.203
92	Name 92	192.168.1.201
93	Name 93	192.168.1.203

Current Reader:

Status:

Serial No:

Up load Count: 0  
Authorized Total: 9

zCard 1



Xref Number:

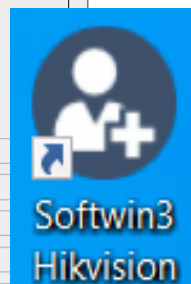
User Name:

Card Number:

Photo Path:

Search Card No:

Authorized Users:  All Users  Total Users: 0



# 1. Hardware Setup

## Wiring:

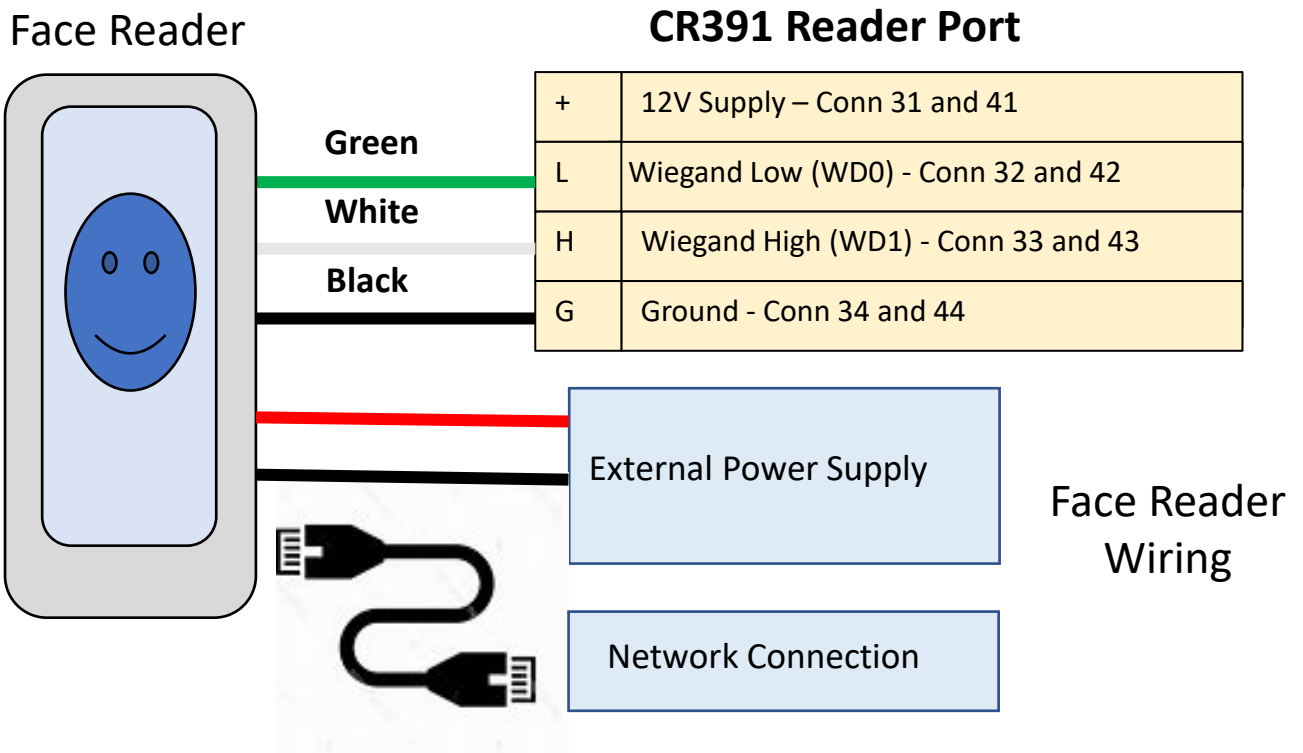
The Hikvision facial reader is connected to the reader port of the CR391 Controller as pictured below.

- The Facial Reader is powered with the supplied external power supply.
- The Facial Reader will have its own network connection and IP Address.

## Facial Reader Settings:

The following must be set on the Facial Reader Unit:

- 1.) Change the Password for all Facial Readers to: **qwerty123**
- 2.) IP Address:  
**Comm > Wired Network > IP Address** (DHCP must be OFF)
- 3.) Wiegand Setting:  
**Comm > Wiegand > Wiegand26 Output** (Wiegand output set to 26Bit)



## 2. Softwin3 Setup

The following must be configured in Softwin3:

### Reader Setup:

*Setup / Setup Editor / Readers*

- **Description:** A descriptive name for each reader record.
- **Controller:** The reader points to the controller that it will be connected to.
- **Token Type:** Selected to match the reader type installed: **04 Wiegand 26** for **26bit**

User: Administrator - [Reader]

File Edit Status Users Setup Vending Programs Tools View Window Help

Re.	Description	Controller	Area In	Area To	Token Type	Port
1	HIK Face Read1 port	HIKVision Controller	HIK Face Area IN	HIK Face Area OUT	04 Wiegand 26	1
2	HIK Face Read2 port	HIKVision Controller	HIK Face Area OUT	HIK Face Area IN	04 Wiegand 26	2

### Bio Reader Setup:

*Setup / Setup Editor / Bio- Reader Set-up:*

- **Name:** A descriptive name for each facial reader.
- **Reader:** The corresponding reader as setup in the previous step.
- **Type:** Manufacturer Type: Hikvision.
- **PC:** Points to the Server PC Name.
- **ID PORT:** 8000 for Hikvision.
- **IP Addr:** Your assigned IP Address for the facial reader.
- **Serial No:** Blank / None.
- **Push Server:** Blank / None.

User: Administrator - [Bio - Reader Setup]

File Edit Status Users Setup Vending Programs Tools View Window Help

R...	Name	Reader	Type	PC	IP Port	IP Addr	Serial No	Push Server
1	HIKVision Face Read1	HIK Face Read1 port	Hikvision	Support-Laptop	8000	192.168.1.203		

- **FP Protocol:** Default
- **CD Fingers:** 2
- **CD Min, CD Max:** 1 (positions where records will be assigned in database for Users)
- **Vis Min, Vis Max:** 3000 (positions where records will be assigned in database for Visitors)
- **Using TokenNo:** Ticked (ON) (System is using Token numbers as assigned under User Admin)
- **Bio Required:** Deactivated
- **Consolidation:** Deactivated
- **2 FP Acquisition:** Deactivated

### 3. SCS\_HIKvision Setup

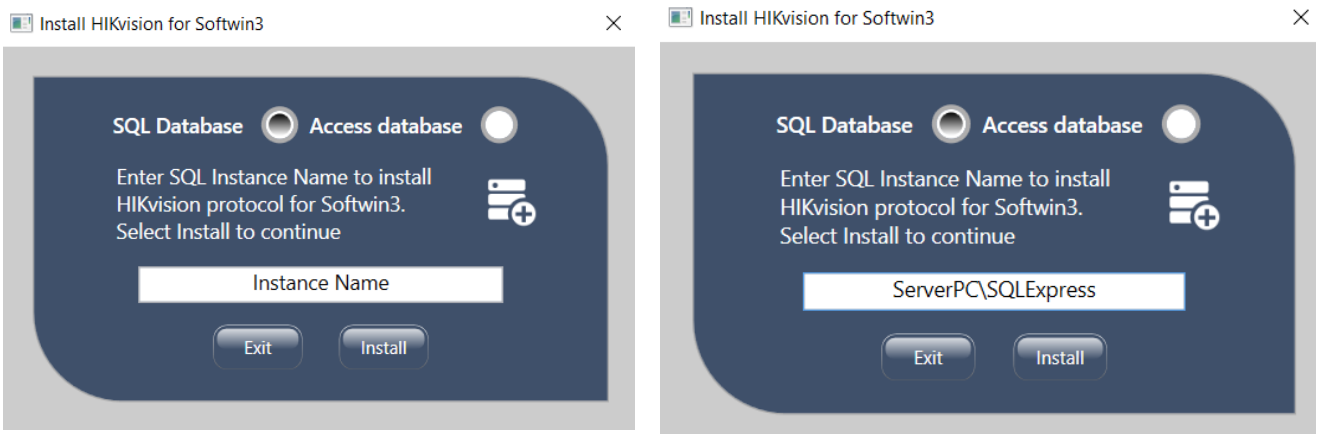
This software is responsible for sending all user facial templates between the server pc and the installed facial readers.

#### Note:

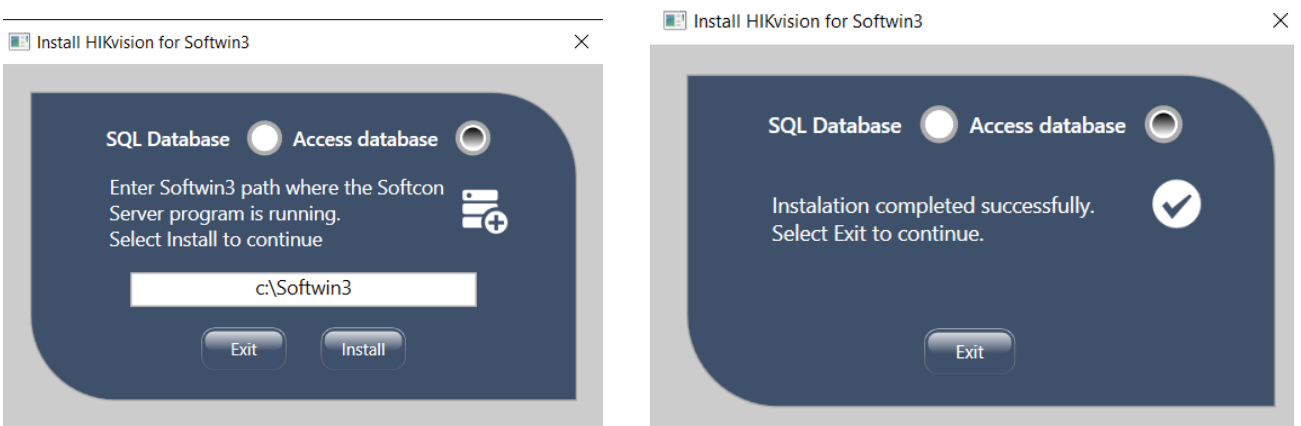
- 1.) **SCS\_HIKvision Software** must be loaded on the computer/s used for capturing user photos (the pc used for user / visitor facial enrolment).
- 2.) The program can be loaded on the Server PC or Client PC, or both.

#### Software Installation:

- Install **SCS\_HIKvision** on the pc where enrolment photos is taken.
- Select your installation database type: **Access or SQL**.
- For **Access**, verify path to Softwin3 installation folder.
- For **SQL**, verify the path for appropriate Instance.
- Select **Update Data** to update settings and open the User Window



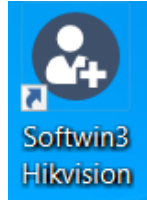
Example of a SQL Database Installation



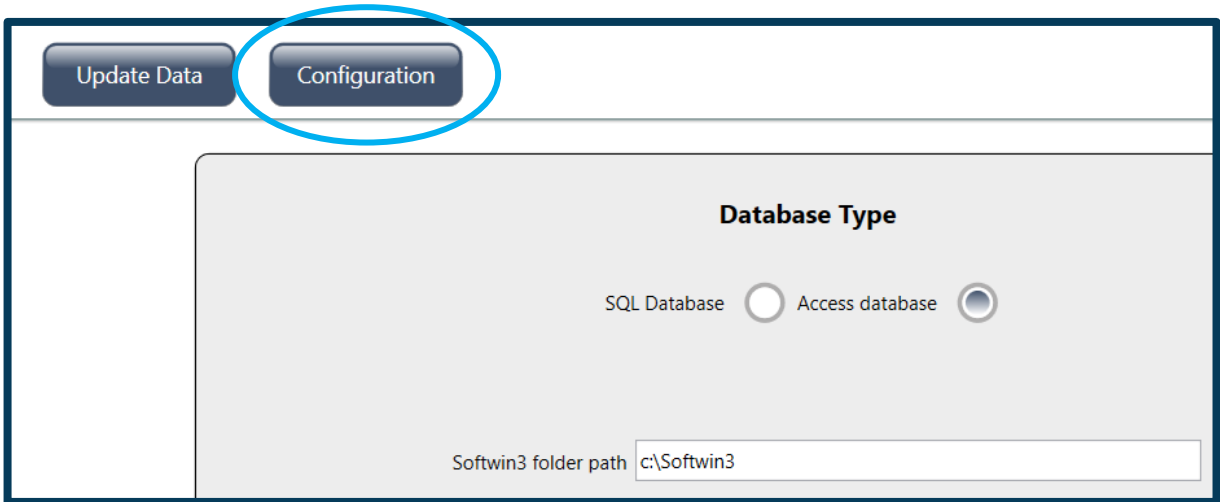
Example of an Access Database Installation

### 3. SCS\_HIKvision Setup continued.

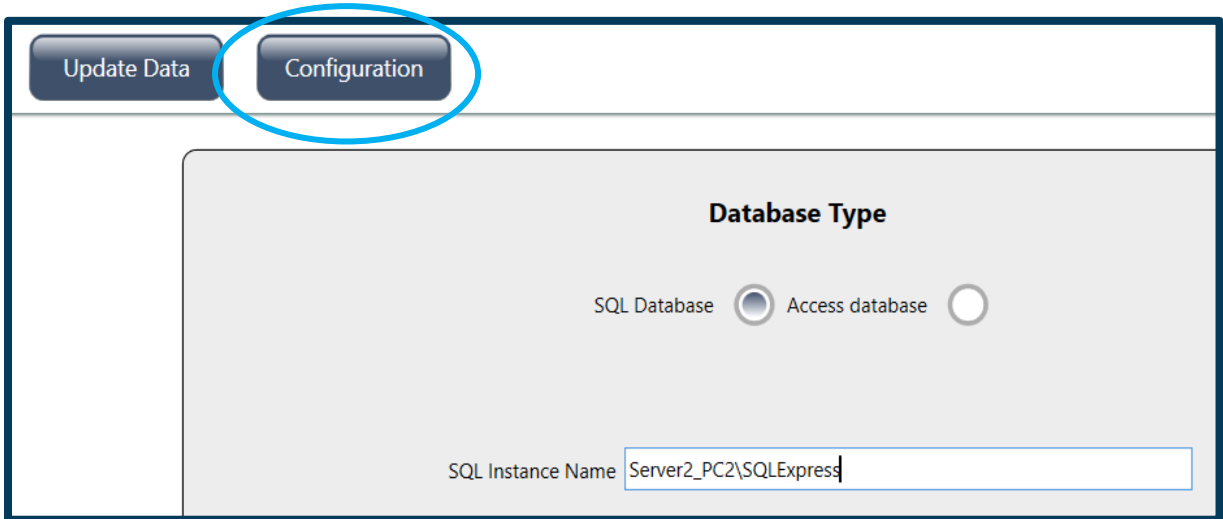
- A **Softwin3\_Hikvision** Shortcut is created on the pc Desktop.
- Double-Click on the shortcut to run the program.



- If you need to edit the path to the database location, use the **Configuration Menu**.



**Edit Configuration to a Access Database path**



**Edit Configuration to a SQL Database path**

# Program Layout

### Equipment Window:

Active facial readers are listed with details regarding IP Address, Online Status, Serial Number and Name.

### User Window:

- Users can be added / deleted from listed facial readers.
- User photos / access to facial readers can be verified.

The screenshot displays the SCS\_HIKvision software interface. At the top left, it shows 'SCS\_HIKvision Version:1.0.0.9'. Below this are two buttons: 'Update Data' and 'Configuration'. A blue arrow labeled 'Refresh Data' points to the 'Update Data' button. The main interface is divided into three sections:

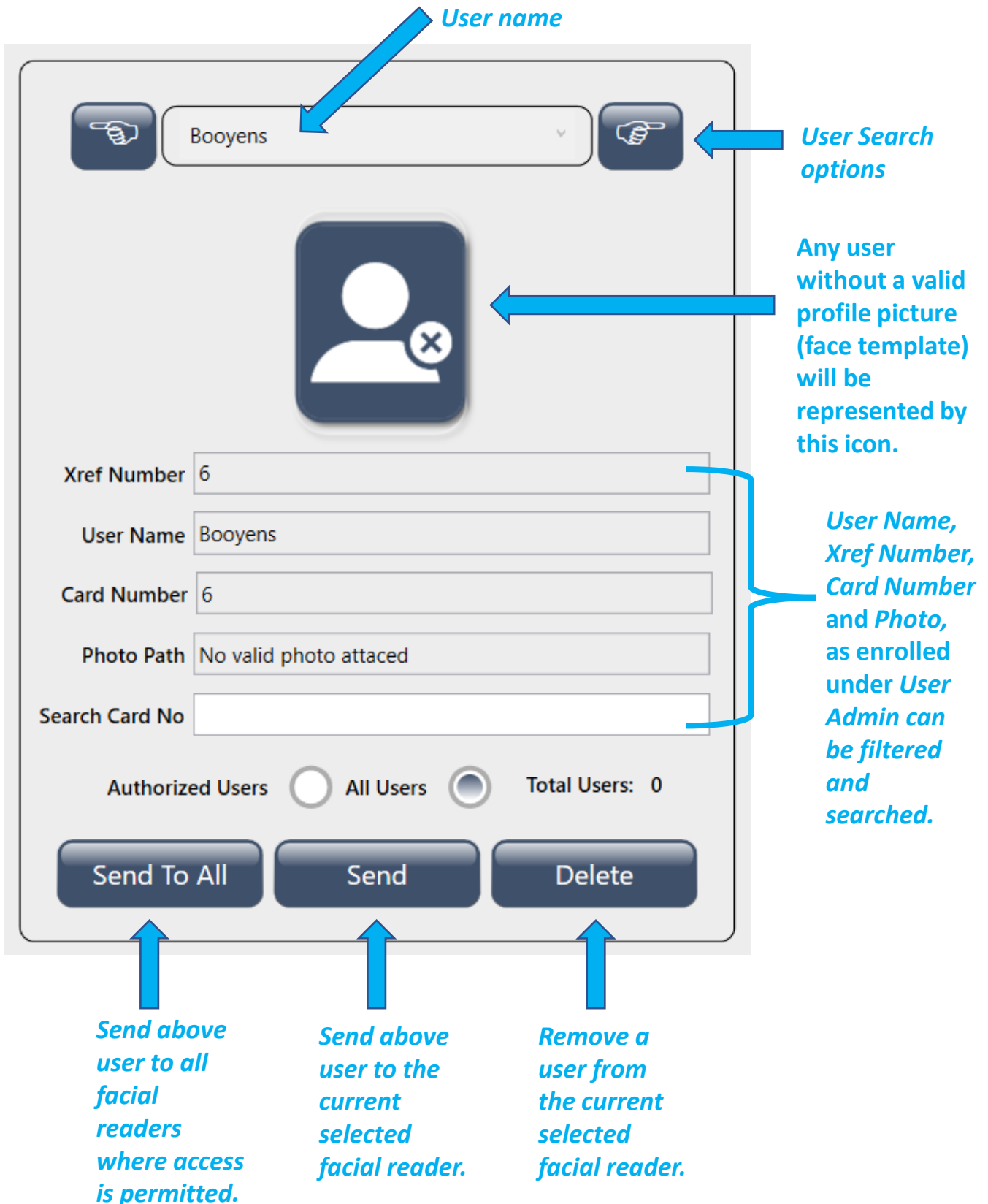
- Equipment Window:** A table with columns 'Ref', 'Name', and 'IP Address'. It contains one entry: Ref 1, Name HIKVision Face Read1, IP Address 192.168.1.203. Below the table are fields for 'Current Reader' (HIKVision Face Read1), 'Status' (Online), and 'Serial No' (K33494607). At the bottom left of this section is a 'Send All Users' button. To its right are 'Up load Count: 0' and 'Authorized Total 3'.
- User Window:** A panel for user management. It features a dropdown menu with 'Van Damme' selected, a user photo placeholder, and input fields for 'Xref Number' (1), 'User Name' (Van Damme), 'Card Number' (1), and 'Photo Path' (C:\SoftWin3\Photo\1.JPG). There is also a 'Search Card No' field. At the bottom, there are radio buttons for 'Authorized Users' (selected) and 'Total Users: 3'. Three buttons are at the bottom: 'Send To All', 'Send', and 'Delete'.
- Activity Window:** A log at the bottom showing 'Date and Time' (2022/12/09 08:56:15) and 'Description' (Successfully connected to HIKVision Face Read1).

Blue arrows and brackets highlight the 'Update Data' button, the 'Equipment Window' table, and the 'Activity Window' log.

### Activity Window

Monitor this section for all activities.

# User Window Layout



The diagram illustrates the layout of a user management window. At the top, there is a search bar containing the text "Booyens" with a hand icon on the left and a dropdown arrow on the right. Below the search bar is a profile picture placeholder icon showing a person silhouette with a red 'X' over it. Underneath the profile picture are several input fields: "Xref Number" with the value "6", "User Name" with "Booyens", "Card Number" with "6", and "Photo Path" with "No valid photo attaced". Below these fields is a "Search Card No" input field. At the bottom of the window, there are three radio buttons: "Authorized Users" (selected), "All Users", and "Total Users: 0". At the very bottom are three buttons: "Send To All", "Send", and "Delete".

*User name*

*User Search options*

*Any user without a valid profile picture (face template) will be represented by this icon.*

*User Name, Xref Number, Card Number and Photo, as enrolled under User Admin can be filtered and searched.*

*Send above user to all facial readers where access is permitted.*

*Send above user to the current selected facial reader.*

*Remove a user from the current selected facial reader.*

## Registering Facial Readers

Newly added facial readers will appear in the equipment list on the left.

- Press **Update Data** to refresh data.
- All new facial readers must be registered by using an issued **Activation Key**.
- Once online, a registration pop-up window will appear, prompting you to register the new facial reader.
- Enter your **Activation Code** and press **OK**.
- Do the above for all added facial readers.

### Newly added Facial Reader

The screenshot displays a software interface for managing facial readers. On the left, a table lists newly added readers with columns for Reference (Ref), Name, and IP Address. A blue arrow points to the 'Name' column. The main area shows a detailed view of a selected reader, 'zCard 1', with a placeholder photo and a registration pop-up window. The pop-up prompts for an activation key for serial number G80464552, with 'No' and 'Ok' buttons. Below the pop-up, the 'Current Reader' is identified as 'Name 84' with a serial number of 'G80464552'. A blue arrow points to this serial number. The interface also shows the reader's status as 'Online', a search field for card numbers, and a 'Send To All' button. At the bottom, an activity log shows a message: 'Incorrect key provided for Name 82', with a blue arrow pointing to it.

Ref	Name	IP Address
82	Name 82	192.168.1.201
83	Name 83	192.168.1.203
84	Name 84	192.168.1.201
85	Name 85	192.168.1.203
86	Name 86	192.168.1.201
87	Name 87	192.168.1.203
88	Name 88	192.168.1.201
89	Name 89	192.168.1.203
90	Name 90	192.168.1.201
91	Name 91	192.168.1.203
92	Name 92	192.168.1.201
93	Name 93	192.168.1.203

Current Reader: Name 84  
Status: Online  
Serial No: G80464552  
Up load Count: 0  
Authorized Total: 9

Photo Path: c:\softwin3\photo\1.jpg  
Search Card No: [ ]  
Authorized Users:  All Users  Total Users: 0  
Send To All

Date and Time: 2022/11/28 09:53:5  
Description: Incorrect key provided for Name 82

Serial Number of current selected facial reader.

Activity Window



## Registering a Facial Readers continued.

- The status of the activation is shown in the **Activity Window** (bottom of menu).
- Once a facial reader is registered you can upload facial templates.
- **Note:** You do not have to register the facial reader in Softwin3 software.

Ref	Name	IP Address
82	Name 82	192.168.1.201
83	Name 83	192.168.1.203
84	Name 84	192.168.1.201
85	Name 85	192.168.1.203
86	Name 86	192.168.1.201
87	Name 87	192.168.1.203
88	Name 88	192.168.1.201
89	Name 89	192.168.1.203
90	Name 90	192.168.1.201
91	Name 91	192.168.1.203
92	Name 92	192.168.1.201
93	Name 93	192.168.1.203

Current Reader: Name 84  
Status: Online  
Serial No: G80464552

Up load Count: 0  
Authorized Total: 9

zCard 1

Photo Path: c:\softwin3\photo\1.jpg

Authorized Users:  All Users  Total Users: 0

Send To All Send Delete

Date and Time	Description
2022/11/28 09:53:56	Incorrect key provided for Name 82
2022/11/28 09:57:38	Successfully register and connect to Name 84

**Facial Reader is successfully registered.**

### Checklist: Before users can be uploaded to facial readers:

1. Your Facial Reader is **REGISTERED** and **ONLINE** in **SCS\_HIKvision** Equipment Window.
2. Your Facial Reader is configured in **Softwin3** (Setup / Setup Editor / Bio Reader Setup).
3. The User is enrolled in **Softwin3** with allocated **AreaGroups** to allow access to the facial reader.
4. The User has a Photo (face template) as taken in **Softwin3** (User Admin / Properties / User).
5. **Note:** Only users that are **ENABLED** in **Softwin3** (User Admin) may be added to the facial readers.

# Adding / Removing User Templates

## Adding Users

Once you have selected an User in the **User Menu** and Facial Reader/s in the **Equipment Menu**, you have different Send Options available, as listed below.

**Note:** Monitor the Activity Window to see if uploading was successful.

## Removing Users

Once you have selected an User in the User Menu and Facial Reader/s in the Equipment Menu, you can remove a User by selecting **Delete**.

**Note:** Monitor the Activity Window to see if removal was successful.

The screenshot displays a user management interface. On the left, a table lists users with columns for Ref, Name, and IP Address. The first entry is Ref: 1, Name: HIKVision Face Read1, IP Address: 192.168.1.203. Below the table are fields for Current Reader (HIKVision Face Read1), Status (Online), and Serial No (K33494607). A 'Send All Users' button is present, along with 'Up load Count: 0' and 'Authorized Total 3'. On the right, a user profile for 'Stallone' is shown with a silhouette icon. Fields include Xref Number (2), User Name (Stallone), Card Number (2), and Photo Path (C:\SoftWin3\Photo\2.JPG). A 'Search Card No' field is also present. At the bottom of the profile section, there are radio buttons for 'Authorized Users' and 'All Users', and a 'Total Users: 3' indicator. Three buttons are visible: 'Send To All', 'Send', and 'Delete'. The 'Send' and 'Delete' buttons are circled in blue. Below the main interface is an activity log table with columns for Date and Time and Description. The log shows three entries: 2022/12/09 10:21:07 (Successfully connected to HIKVision Face Read1), 2022/12/09 10:21:59 (Facial Record 2 was successfully uploaded to HIKVision Face Read1), and 2022/12/09 12:00:48 (Facial Record 2 was successfully removed from HIKVision Face Read1). Blue arrows point from the 'Send' and 'Delete' buttons to the corresponding log entries.

Date and Time	Description
2022/12/09 10:21:07	Successfully connected to HIKVision Face Read1
2022/12/09 10:21:59	Facial Record 2 was successfully uploaded to HIKVision Face Read1
2022/12/09 12:00:48	Facial Record 2 was successfully removed from HIKVision Face Read1

User record successfully uploaded.

User record successfully removed.

### **Send**

One specific user template is sent to a specific facial reader.

### **Send to All**

One specific user template is sent to all relevant facial readers.

### **Add All**

All users with templates are sent to the selected reader.

### **Delete**

One specific user template is removed from a specific facial reader.

### **Delete all Users**

To delete all users from a facial reader: This can only be done on the facial reader.

Access the facial reader menu:

*Data / Delete Data/User Data/Delete Users*

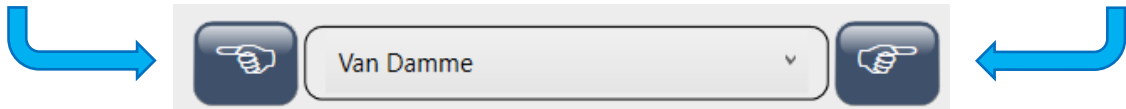
## User Search and Verification Features

The SCS\_HIKvision program allows various features for easy Search and Verification of Facial Reader Users.

### Search Features:

#### Manual Search

- You can do manual User Name searches by using the left or right search indicators:



#### Specific Search

- You can do specific searches on Users according to **Xref, Name** or **Card Number**:
- Double-click on the menu bar for either **Xref, Name** or **Card**.
- The Search Bar will change according to your selection and you can enter your specific **User Xref/Name /Card Number** into the Search Bar to continue.

Xref Number	1
User Name	Van Damme
Card Number	1
Photo Path	C:\SoftWin3\Photo\1.JPG
Search Name	VAN

Menu Bar

Search Bar

**Search according to User Name.**

Xref Number	1
User Name	Van Damme
Card Number	1
Photo Path	C:\SoftWin3\Photo\1.JPG
Search Xref	1

**Search according to Xref Number.**

Xref Number	
User Name	
Card Number	
Photo Path	No valid photo attached
Search Card No	2365

**Search according to Card Number.**

## Verification Features:

The SCS\_HIKvision allows easy verification options to verify how many users have access to specific facial readers. This can be compared according to the total amount of users in the datanase.

### Authorised Users

When selected, this feature indicates the amount of enabled users that have access to the facial reader/s selected.

### All Users

When selected, this feature indicates total amount of enabled users in the user database.

Xref	Surname	Name	Area Group	Status
1	Van Damme	Jean-Claude	Access to All Bios	Enabled
2	Stallone	Stylvester	No Bio Access	Enabled
3	Norris	Chuck	No Bio Access	Enabled

Authorized Users  All Users  Total Users: 3

Authorized Users  All Users  Total Users: 1

Xref	Surname	Name	Area Group	Status
1	Van Damme	Jean-Claude	Access to All Bio	Enabled
2	Stallone	Stylvester	No Bio Access	Disabled
3	Norris	Chuck	No Bio Access	Disabled

Authorized Users  All Users  Total Users: 1

Authorized Users  All Users  Total Users: 1

## *Authorized Users vs. All Users Verification*