



# Feature Description Document

## Configuring IXM Link for Paxton Net2



## Purpose

This document outlines the process of configuring IXM Link to sync users between Paxton's Net2 software and IXM WEB.

## Applies to

| TITAN       | TFACE       | TOUCH 2     | SENSE 2     | MERGE 2     | MYCRO       |
|-------------|-------------|-------------|-------------|-------------|-------------|
| All Devices | All Devices | All Devices | All Devices | All Devices | All Devices |

## Description

IXM Link is a licensed module in IXM WEB that helps to synchronize the user database between IXM WEB (from where biometric enrollment for users is performed) and leading Access Control Panel Software (from where access rules for the users and the organization are managed).

This FDD will describe how to set up and configure IXM Link if you are using Net2 by Paxton to keep IXM WEB users in sync with Net2 by using its APIs to import and export users and their cards.



## Net2 Module Activation

The option to activate Paxton (Net2) License is available under the **License** tab.

### STEP 1

Select **Settings** icon on top right of the page >> Click on **About IXM WEB** >> Click on **copy to clipboard** button next to **MACHINE KEY**.

Request a **License** by sending email to [support@invixium.com](mailto:support@invixium.com). Paste the copied machine key in the email.


About IXM WEB ✕

**VERSION 3.0.20.0**  
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**THIRD PARTY COMPONENTS**  
IXM WEB includes elements and components from Telerik's Kendo UI Web. Copyright © 2024,  
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**ANNUAL SUPPORT CONTRACT INFORMATION**

|        |            |
|--------|------------|
| Status | Expire On  |
| Active | 07/31/2025 |

**MACHINE KEY** 

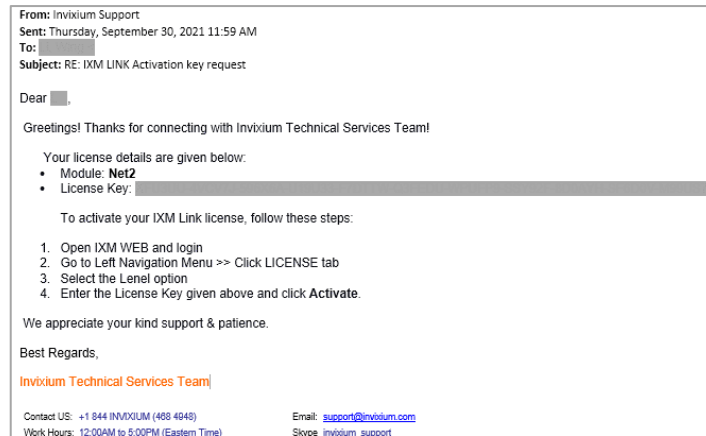
B5k6X0y8NFfzQkuxy/kUBNHTNHVpc6yLgBoCitYxHdT25EuuoX4VHLR2Fps12MjHSj5VUgDHmY  
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[IXM WEB Activation](#) [What's New](#)



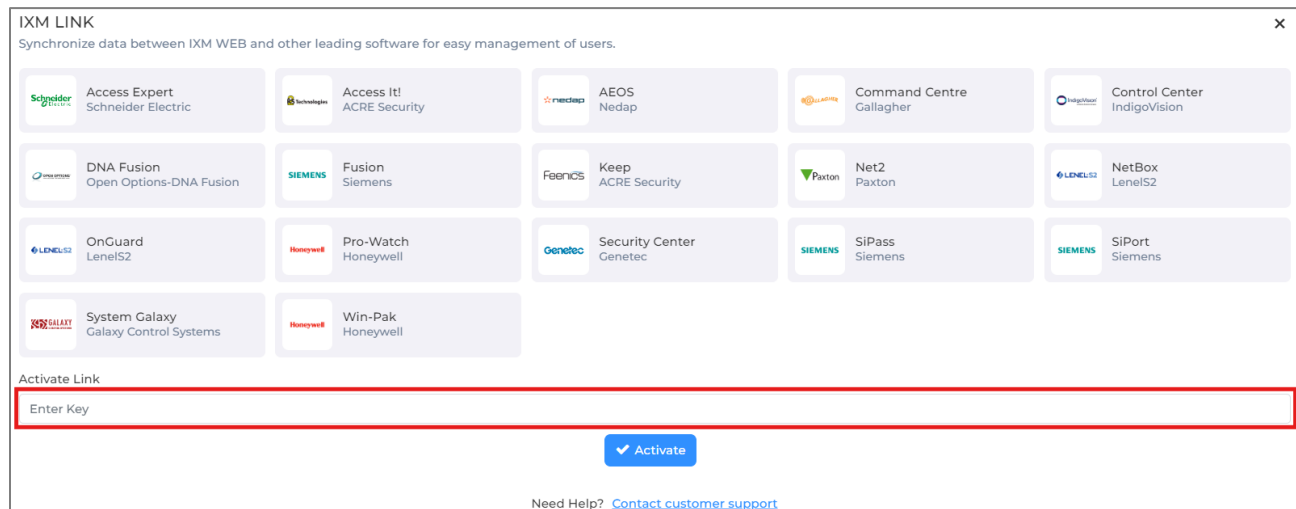
## STEP 2

You will receive an email from Invixium Support containing a license key for the Paxton (Net2) Activation.



## STEP 3

Navigate to **License** → Click on **IXM LINK** → **Copy** and **paste** the License Key in the box provided, and then select **Activate**.



IXM WEB is now licensed for use with Net2 and configuration can begin.



## Configuring Wiegand to Output Net2 Tokens

1. Register all IXM devices.
2. From **Devices** tab, select any device.
3. Navigate to the **Access Control** tab.
4. Scroll down and click on **Wiegand Output**.

The screenshot shows the 'Wiegand Output' configuration window. It features a sidebar on the left with a 'Wiegand' tab selected. The main area is divided into two columns of settings. The left column contains 'EVENTS' with the following settings: Wiegand (Employee ID), Identification (Standard 26 bit), Verification (Standard 26 bit), Anti-Shock (IXM 82 bit Device S/N), Heart Beat (None), Employee not found (None), Thermal Authentication (Standard 26 bit), Mask Not Detected (None), and Invalid Attestation Questions (None). The right column contains 'Duress' (None), 'Fail' (None), 'Fail' (None), 'ID Value' (Device Serial Number), 'ID Value' (Device ID), and 'Interval (sec)' (60). At the bottom, there is a 'PULSE (MSEC)' section with 'Width' (40) and 'Interval' (2000). 'APPLY' and 'RESET' buttons are located at the bottom left.



5. Toggle the switch on the top right-hand side to enable Wiegand Output for the device.
6. Set ID Type of output Wiegand to Employee ID/Default/Actual Card. By default, Employee ID is selected in Wiegand Event.

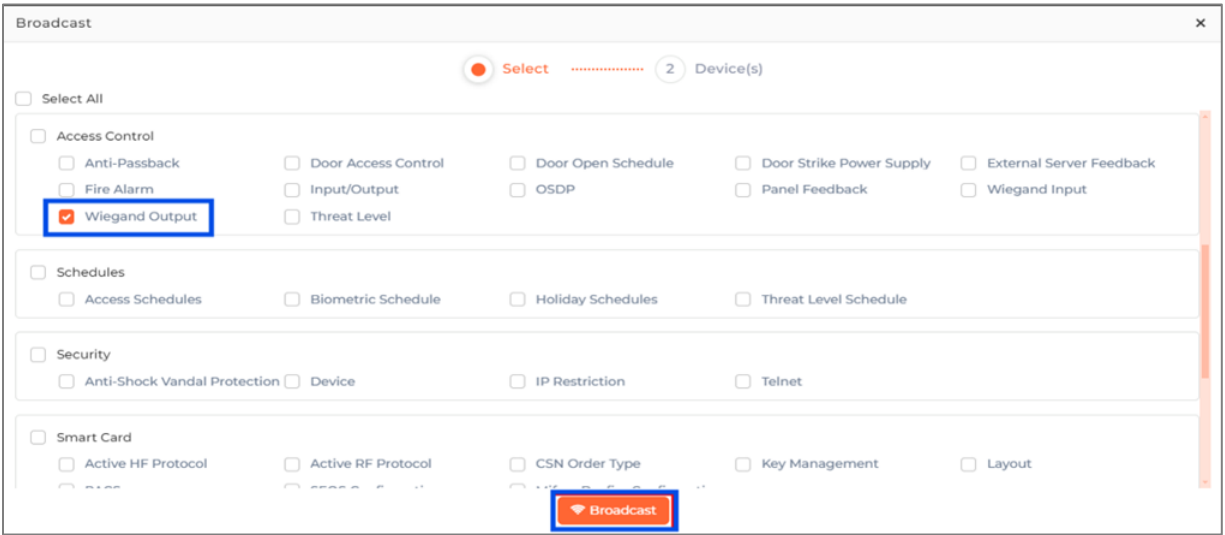
*Note: For fingerprint and face access, default card Wiegand output data will be generated*

7. Select desired format for Identification, Verification, Employees not found, Thermal Authentication and Mask not Detected for the selected Card.
8. Click **Apply**.
9. This will update the Wiegand Output settings of the selected device.
10. If you have more devices, then follow the next steps to copy all Wiegand settings to all devices simultaneously. *Note: This copies all Wiegand output settings.*
11. To push these configurations to other Invixium readers, while the configured Invixium device is selected, click the **Broadcast** option from vertical ellipses button

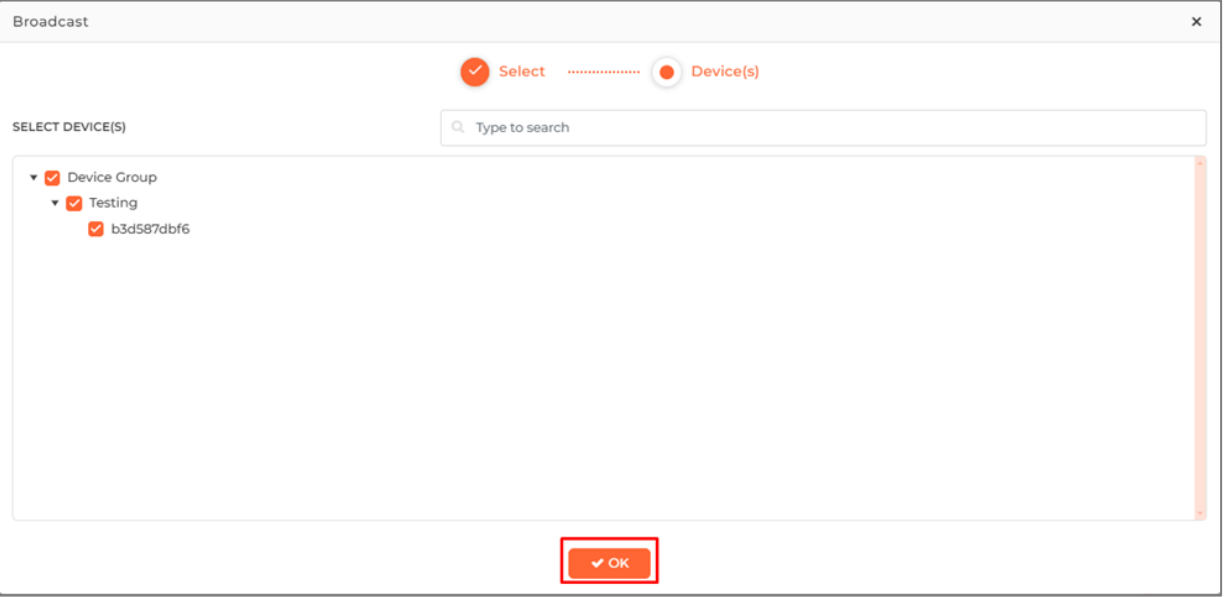
|                          |                           |            |          |               |                |   |  |
|--------------------------|---------------------------|------------|----------|---------------|----------------|---|--|
| <input type="checkbox"/> | A048499655<br>TITAN FPLU5 | A048499655 | Ethernet | 192.168.1.230 | 02.007.005.000 | 0 |  |
| <input type="checkbox"/> | A907601228<br>TITAN FPLU2 | A907601228 | Ethernet | 192.168.1.137 | 02.007.005.000 | 0 |  |

The context menu for the selected device includes the following options: Add to Group, Delete, Reboot, Factory Defaults, **Broadcast**, and Manual Upgrade.

12. Scroll down to the **Access Control** section → check **Wiegand Output** option → Click on **Broadcast**.



13. Select the rest of the devices in the popup. Click **OK** to copy all Wiegand output settings of the source device to all destination devices.





## Field Mappings

The following are the Net2 fields mapped with IXM WEB.

| Net2 Field              | IXM Field     | Notes   |
|-------------------------|---------------|---|
| <b>First name</b>       | First Name    |   |
| <b>Surname</b>          | Last Name     |   |
| <b>Department</b>       | Department    |   |
| <b>Telephone</b>        | Office Phone  |   |
| <b>Mobile</b>           | Mobile        |   |
| <b>Valid from</b>       | Start Date    | If Start Date is null in IXM WEB then this is set to date when sync takes place in Net2.                    |
| <b>Expires end</b>      | End Date      | If End Date is null in IXM WEB then this is set to 31/12/9999 when sync takes place in Net2.                |
| <b>Address 1</b>        | Address – 1   |   |
| <b>Address 2</b>        | Address – 2   |   |
| <b>Town</b>             | City          |   |
| <b>County</b>           | State         |   |
| <b>Postcode</b>         | ZIP Code      |   |
| <b>Home telephone</b>   | Home Phone    |   |
| <b>Email</b>            | Email         |   |
| <b>PIN</b>              | PIN           |   |
| <b>Token number</b>     | Prox ID       | For new users, if this is null/blank then IXM WEB will generate a unique one and assign it to both systems. |
| <b>AntiPassbackUser</b> | Anti-Passback | This field is not visible in Net2 but it is a mandatory field and the default status is ACTIVE.             |

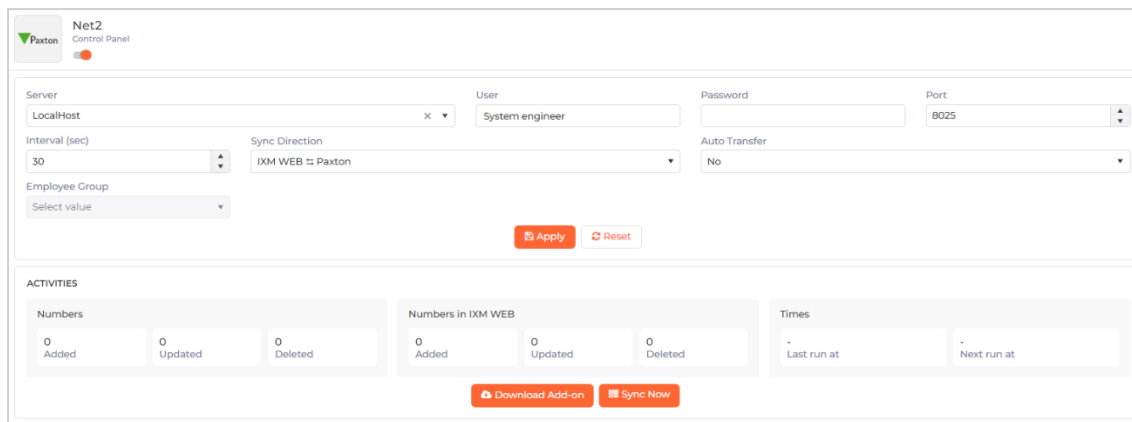




|                 |               |  |
|-----------------|---------------|--|
| <b>LostCard</b> | No equivalent | If Lost Token is marked as true in Net2 then IXM WEB will mark null against PROX ID. |
|-----------------|---------------|--|

## Configuring LINK for Paxton

1. Navigate to **Link** → click the **Paxton (Net2)** icon.



2. Enable editing configuration by toggling the switch next to the logo to **ON**. Data is not synced when the configuration is applied with this switch in the OFF position.
3. Provide values for the Web Service URL, Instance Name, User, Password, interval, Sync Direction, Auto Transfer option, and Sync Card Number fields. Each configuration setting is explained below:

**Server:** Name or IP of the computer where Net2 service is running.

**User:** Name of Net2 operator.

**Password:** Password of Net2 operator.

**Port:** OS port where Net2 service is listening for an incoming connection.

**Interval:** Latency acceptable between data transfers.

**Sync Direction:**

- Sync data from Net2 to IXM WEB.
- Sync data from IXM WEB to Net2.



- Sync data both ways. The link will update the IXM WEB first and then Paxton.

**Auto Transfer:**

- No: Employees synchronized from Paxton will not be automatically added to any of the employee groups present in IXM WEB.
- Yes: On selecting 'Yes' for Auto Transfer, the employee group selection dropdown enables, which displays all the employee groups present in IXM WEB. All the employees synchronized from Paxton will be automatically added to the employee group selected on Link Configuration Page.

**Employee Group:** Selection of employee group needs to be done to use the Auto transfer functionality.

4. Click **Apply** to save the settings.
5. When synchronization happens at the specified intervals and the users are added or updated, the numbers will change accordingly.
6. For immediate syncing instead of at the specified automatic intervals click the “Sync Now” button which runs immediate sync.

|  |              |              |                    |              |              |                  |                  |
|--|--------------|--------------|--------------------|--------------|--------------|------------------|------------------|
| Numbers  |              |              | Numbers in IXM WEB |              |              | Times            |                  |
| 0<br>Added   | 0<br>Updated | 0<br>Deleted | 0<br>Added         | 0<br>Updated | 0<br>Deleted | -<br>Last run at | -<br>Next run at |
| <a href="#">Download Add-on</a> <a href="#">Sync Now</a> |              |              |                    |              |              |                  |                  |

7. Here you can see data pertaining to license usage with last and next run times.
8. Clicking **Sync Now** immediately syncs pending data. This is useful when you don't want to wait until the next scheduled run which is shown in Next Run At.



9. When data is syncing at the given interval, the numbers in the Activity log will change accordingly.

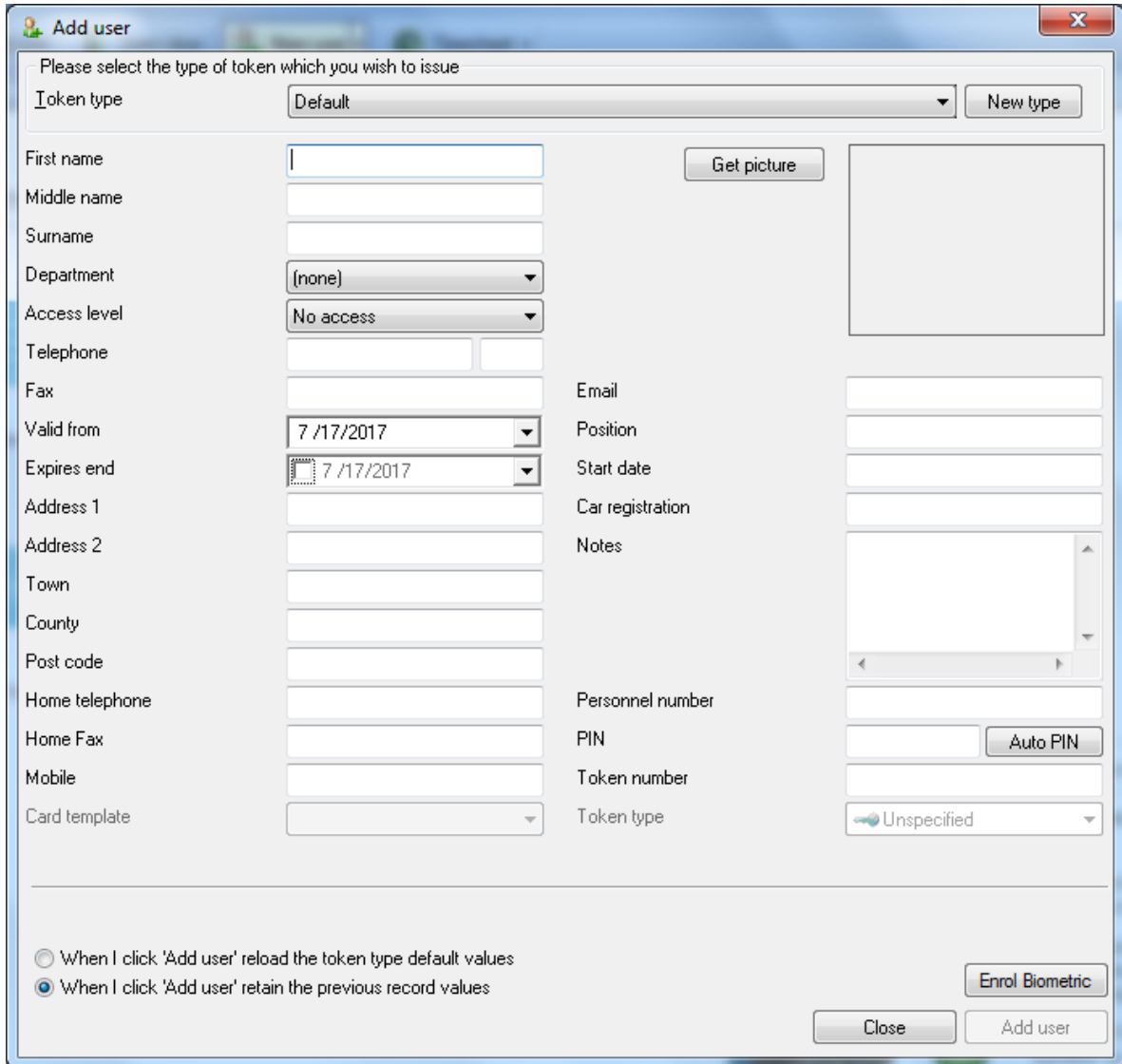


## Multiple Cards

Paxton's Net2 can have multiple tokens per user but IXM WEB supports only one Prox card. Link selects the first available valid card.

## Fingerprint Enrollment from Net2

1. A Net2 add-on (to be run separately) is provided to start IXM WEB fingerprint enrollment for new users added to Net2 directly from Net2. When this add-on is running, it injects a button in Net2 just above “Add User” in the lower right corner.



**Add user**

Please select the type of token which you wish to issue

Token type:

First name:

Middle name:

Surname:

Department:

Access level:

Telephone:

Fax:

Valid from:

Expires end:

Address 1:

Address 2:

Town:

County:

Post code:

Home telephone:

Home Fax:

Mobile:

Card template:

Email:

Position:

Start date:

Car registration:

Notes:

Personnel number:

PIN:

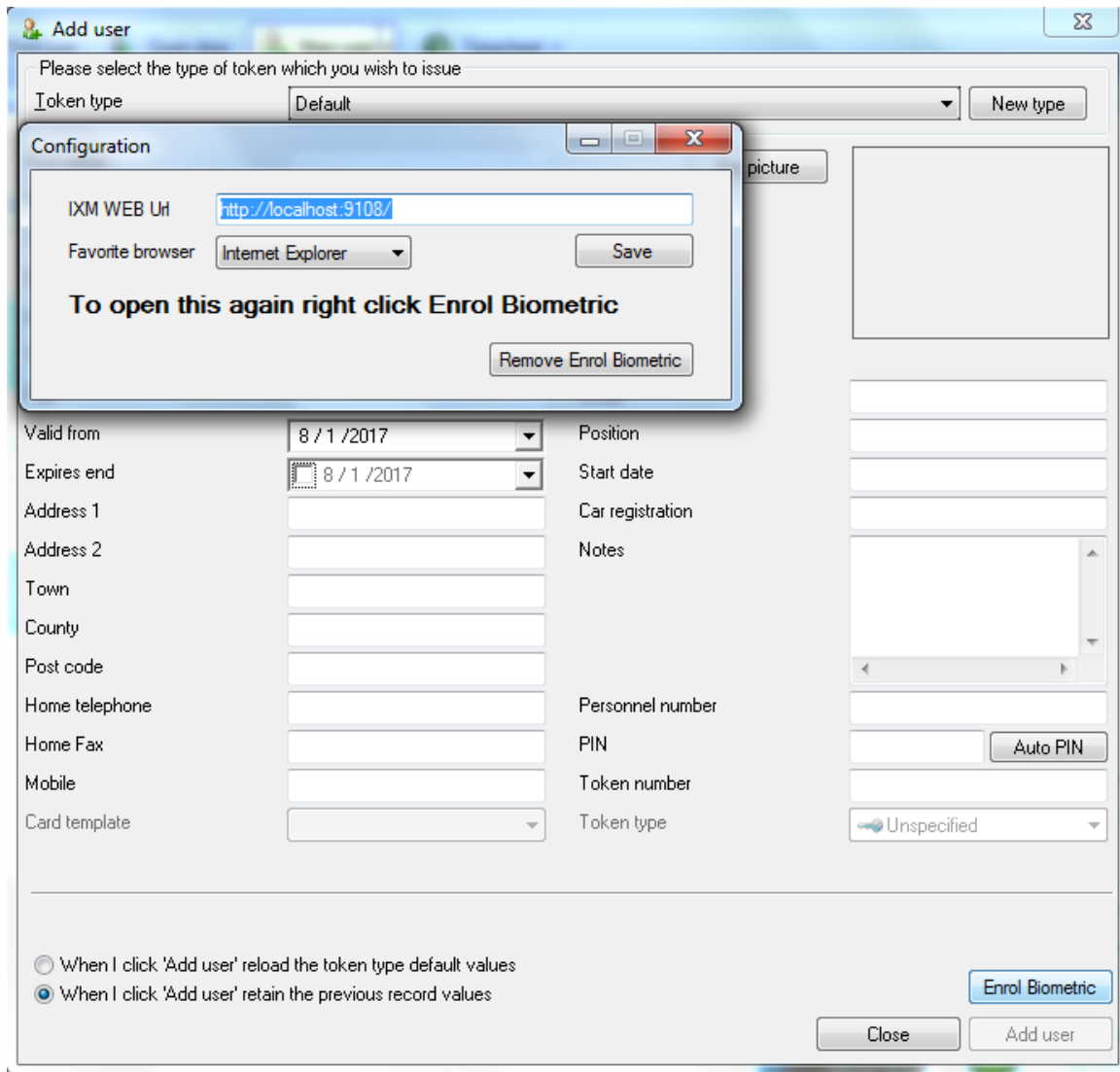
Token number:

Token type:

When I click 'Add user' reload the token type default values

When I click 'Add user' retain the previous record values

2. Right-clicking Enroll Biometric brings up the configuration view for the add-on as shown below.



The User can make 3 changes here:

- a. Change the IXM WEB URL.
- b. Select a favorite browser where the Enrollment popup will open.
- c. Stop the dynamic injection of a new button by clicking the Remove Enroll Biometric in the lower right corner of the configuration window. The add-on needs to be run again when a button is required. To have the add-on start automatically



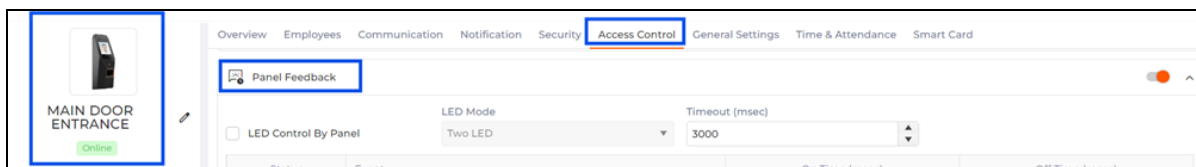
when the end-user logs into Windows, create a shortcut in the user's Startup folder

3. Click Save to apply the changes.
4. Clicking **Enroll Biometric** opens the IXM WEB fingerprint enrollment view for the user. The enrollment will open in the browser selected in step 2.
5. The user should be logged in to IXM WEB in the selected browser before starting enrollment.

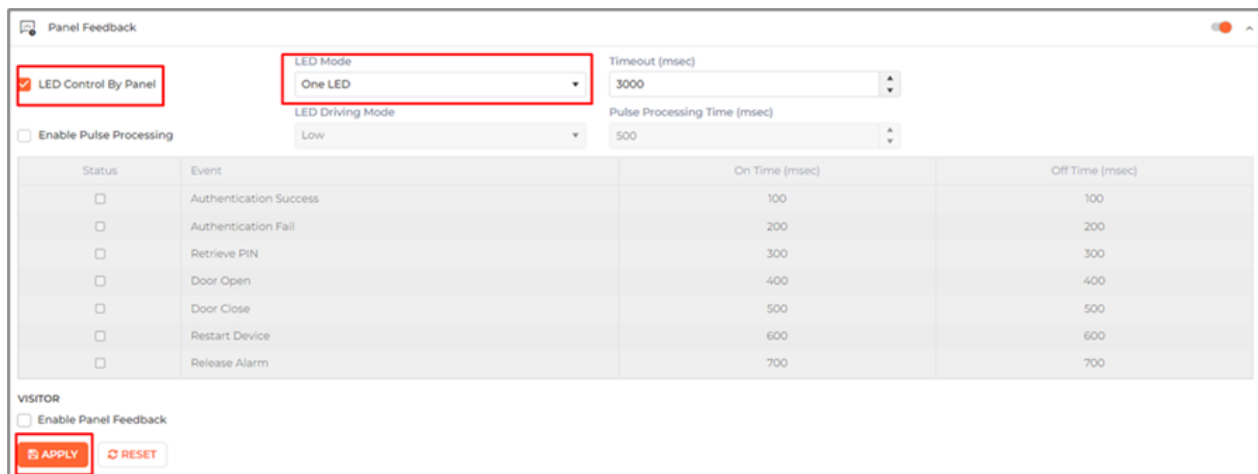


## Configuring Panel Feedback with Paxton

1. Connect Wiegand Data D0 of the Paxton Panel with WDATA\_OUT0 of the IXM device, Wiegand Data D1 of the Paxton Panel with WDATA\_OUT1 and Wiegand Ground of the Paxton Panel with WGND of the IXM Device.
2. Connect Paxton's green LED with ACP\_LED1 of the IXM device and Paxton's red LED with ACP\_LED2 of the IXM device.
3. On the **Devices** tab, select the required device and navigate to the **Access Control** tab. Scroll down and click on **Panel Feedback**. By default, Panel Feedback is turned OFF.



4. Toggle the Panel Feedback switch on the right to **ON**, then Enable LED Control by Panel and Select LED Mode as "Two LED".



5. Click **Apply** to save the changes.



Panel Feedback configuration saved ✕



## Support

For more information relating to this Feature Description document, please contact us at [support@invixium.com](mailto:support@invixium.com)

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