



Feature Description Document

Configuring IXM Link for Schneider



Purpose

This document outlines the process of configuring IXM Link to sync users between Invixium's IXM WEB and Schneider's access control system – Access Expert.

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 Schneider's Access Expert to keep IXM WEB users in sync with Access Expert by using its APIs to import and export users and their cards.



Requesting a License

- 1. From **Home** >> Expand the **Left Navigation Pane** >> Select the **License** tab >> Click on the **Schneider (Access Expert)** icon.

A screenshot of a software dialog box titled "Access Expert Activation". The dialog has a close button (X) in the top right corner. Below the title bar, there is a section labeled "DEVICES" containing a grid of radio button options for device counts: "Up to 5 (free)", "6 to 20", "21 to 50", "51 to 100", "101 to 200", "201 to 300", "301 to 500", "501 to 1000", and "Registered devices[4]". A "Request" button with a checkmark is positioned below these options. Below the device selection area is a text input field labeled "Activation Key" and an "Activate" button with a checkmark. At the bottom center of the dialog is a "Cancel" button with an 'X' icon.

- 2. Select the required license based on the number of devices and click **Request** to see the details and send them to Invixium support to request a license.



- 3. The details screen will vary based on whether [SMTP settings are configured](#) in the IXM WEB:
 - a. If SMTP settings are not configured, a “Copy to Clipboard” icon will appear.

Request ×

Date Requested	06/21/2022
Time	7:00 PM
License Request	1 Devices
Machine Key	
Module	AccessExpert
Version	2.2.250.0

Send above details to support@invixium.com

Send Cancel

Click to copy the details and paste them in an email to support@invixium.com to start the licensing process.



- b. When SMTP settings are configured, a “Send” button and a “Copy to Clipboard” button will appear.

Request ×

Date Requested	06/21/2022
Time	7:00 PM
License Request	1 Devices
Machine Key	
Module	AccessExpert
Version	2.2.250.0

Send above details to support@invixium.com

Click **Send** to directly email the details displayed to Invixium support to start the licensing process.



- Once you receive the license key from Invixium, go back to the same pagewhere you requested the license and input the license key in the Activation Key field as shown below.

A screenshot of a software dialog box titled "Access Expert Activation". It contains a "DEVICES" section with radio button options for device counts: "Up to 5 (free)", "6 to 20", "21 to 50", "51 to 100", "101 to 200", "201 to 300", "301 to 500", "501 to 1000", and "Registered devices[4]". A "Request" button is located below these options. Below the device selection is an "Activation Key" field with a blacked-out key and an "Activate" button. A "Cancel" button is at the bottom center.

- Click **Activate** to activate the license.

A screenshot of a small dialog box titled "License" with an information icon. The text inside reads "License Activated". A blue "OK" button is centered at the bottom of the dialog.



Configuring Wiegand to Output Schneider

1. Register all IXM devices.
2. From **Home** >> Click the **Devices** tab on the top.
3. Select any device.
4. Navigate to the **Access Control** tab for the selected device >> Click on **Wiegand**.

Wiegand Output [Toggle] ^

Wiegand	ID Type User ID ▼	Duress None ▼	
Identification	Success None ▼	Fail None ▼	
Verification	Success None ▼	Fail None ▼	
Anti-Shock	Format None ▼	ID Value Device Serial Nu. ▼	
Heart Beat	Format None ▼	ID Value Device ID ▼	Interval (sec) 60 ▲▼
User not found	Format None ▼		

Pulse (µsec)

Width 40 ▲▼	Interval 2000 ▲▼
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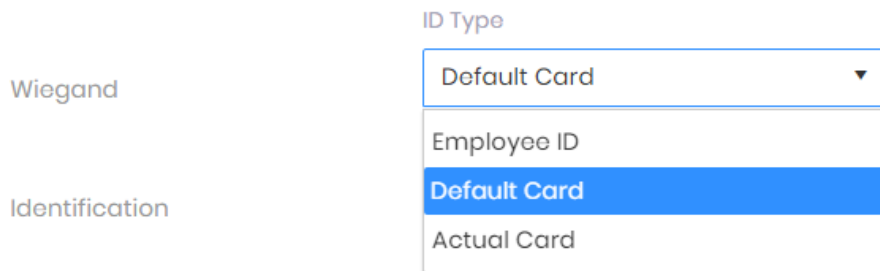
Apply Reset



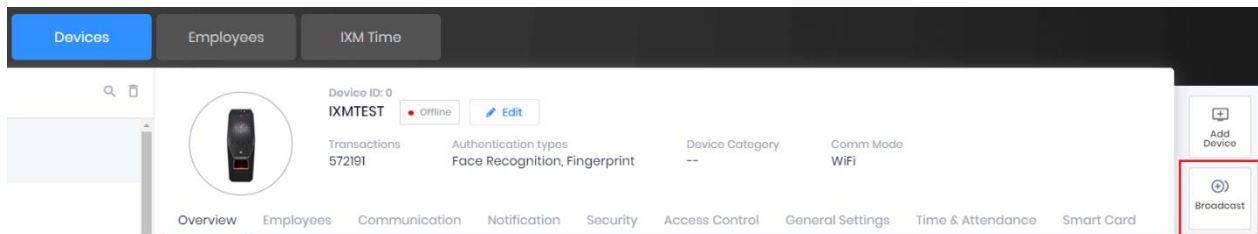
5. Toggle the switch on the right to enable Wiegand Output for the device.
6. Set ID Type of output Wiegand to Employee ID/Default/Actual Card as displayed:

Note: Invixium devices can have up to 512-bits customizable Wiegand format. The default output is Standard 26-bit. To change the output to a different Wiegand format, refer to the [Configuring Wiegand document](#).

EVENTS

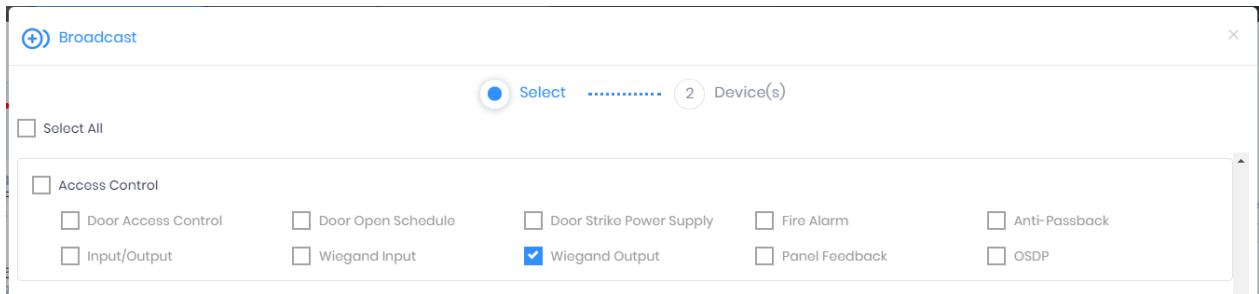


7. Click **Apply**.
8. This would update the Wiegand Output settings of the device selected in step 3.
9. If you have more devices, then follow the next steps to copy all Wiegand settings to all devices simultaneously. *Note: This copies all Wiegand output settings.*
10. From **Home** >> Click the **Devices** tab on the top >> Select the device in step 3 >> Click on **Broadcast** on the right.

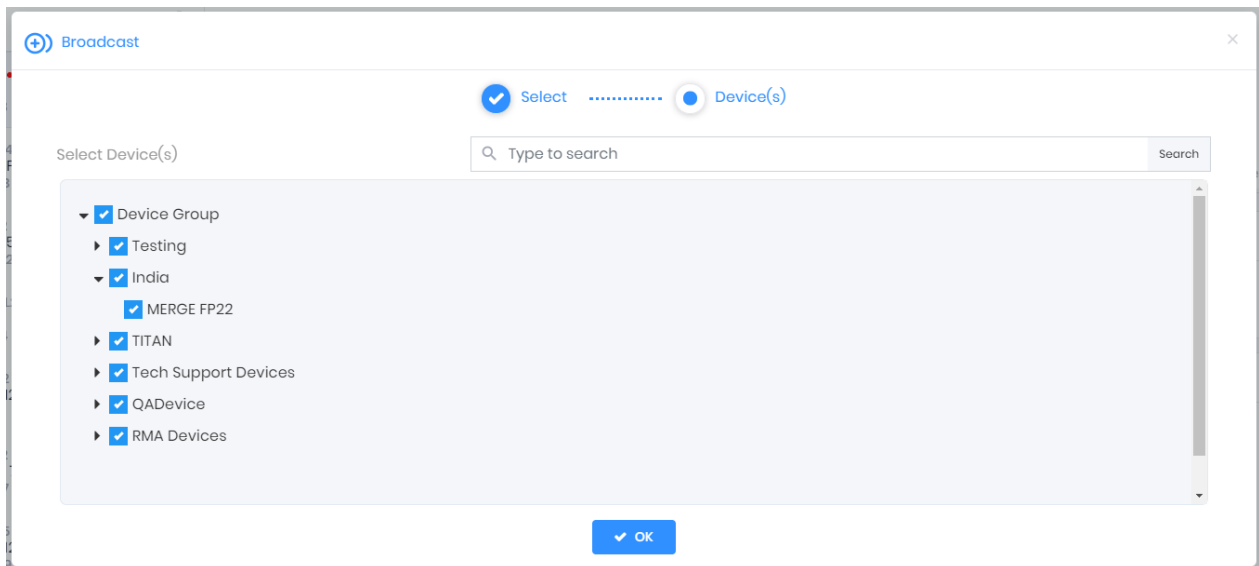




11. Select Wiegand Output as the setting that needs to be broadcasted to other devices as shown below.



12. Click **Broadcast** and select the rest of the devices in the popup as displayed. Click **OK** to copy all Wiegand output settings of the source device to all destination devices at once.





Field Mappings

The following are the Access Expert (Schneider) fields mapped with IXM WEB.

LINK only imports or considers fields that either have a counterpart in IXM WEB or have some bearing on imported data.

Access Expert Field	IXM Field	Notes
First name	First Name	
Last Name	Last Name	
Display Card Number (of card assigned)	Prox ID/Smart Card ID	A card in Access Expert is mapped to both Prox ID and Smart Card ID in IXM WEB. Prox ID is populated with the decimal representation of Display Card Number imported from Access Expert and Smart Card ID is populated with hexadecimal representation of card imported from Access Expert. Exporting Prox ID is given preference when available, otherwise Smart Card ID is converted to its decimal representation and set in Display Card Number.
PIN (of card assigned)	PIN	
Anti Passback Exempt (of card assigned)	Anti-Passback	
Active On (of card assigned)	Start Date	Access Expert assigns 01/01/0001 when Active On is left blank which is not a valid value in IXM WEB, hence LINK replaces it with 01/01/1753. When Start Date is left blank in IXM WEB it's replaced with the date the which the user was added to Access Expert while exporting the user for the first time. It's not assigned during the following updates which cause



		Access Expert to assign 01/01/0001.
Expires On (of card assigned)	End Date	<p>Access Expert assigns 01/01/0001 when Expires On is left blank which is not a valid value in IXM WEB, hence LINK replaces it with 01/01/1753.</p> <p>When End Date is left blank in IXM WEB it's replaced with the time the user was added to Access Expert while exporting the user for the first time. It's not assigned during the following updates which cause Access Expert to assign 01/01/0001.</p>



Configuring LINK for Schneider

1. From **Home** >> Expand the **Left Navigation Pane** >> Select **IXM Link** tab >> Click **Access Expert (Schneider)** icon. By default, the Access Expert configuration is turned OFF.

The screenshot shows the configuration interface for the Schneider Access Expert. At the top left, there is a Schneider logo and the text "Link Access Expert" with a "Status" toggle switch that is currently turned OFF. Below this, the configuration fields are as follows:

- Web Service URL: [Empty text box]
- Instance Name: [Empty text box]
- User: [Empty text box]
- Password: [Empty text box]
- Interval (sec): [30]
- Sync Direction: [IXM WEB ↔ Access Expert]
- Auto Transfer: [No]
- Employee Group: [Select value]

At the bottom right, there are two buttons: "Apply" and "Reset".

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.

The screenshot shows the configuration interface for the Schneider Access Expert with the status switch turned ON. The configuration fields are populated with the following values:

- Web Service URL: [https://ca.api.feonicshosting.com/]
- Instance Name: [InvixiumAccess]
- User: [bmirani]
- Password: [.....]
- Interval (sec): [30]
- Sync Direction: [IXM WEB ↔ Access Expert]
- Auto Transfer: [No]
- Employee Group: [Select value]

At the bottom right, there are two buttons: "Apply" and "Reset".



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:

Web Service URL: Access Expert API URL.

Instance Name: Access Expert Instance Name.

User: Name to log in to Access Expert.

Password: Password to log in to Access Expert.

Interval: Latency acceptable between data transfers.

Sync Direction:

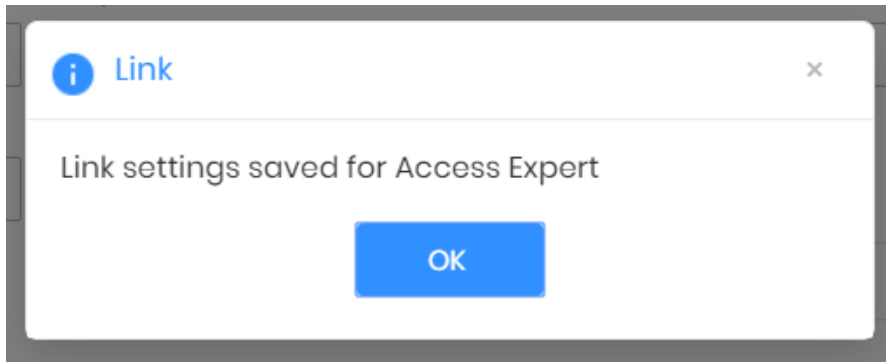
- Sync data from Access Expert to IXM WEB.
- Sync data from IXM WEB to Access Expert.
- Sync data both ways. LINK will update IXM WEB first and then Access Expert.

Auto Transfer:

- No: Employees synchronized from Access Expert 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 Access Expert will be automatically added to the employee group selected on the Link Configuration Page.

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

4. Click "**Apply**" shown below to save when done.





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

ACTIVITIES

Numbers	
Added	0
Updated	0
Deleted	0

Numbers	
Added to IXM WEB	1
Updated in IXM WEB	0
Deleted in IXM WEB	0

Times	
Last run at	7 Feb, 2020 4:30 PM
Next run at	7 Feb, 2020 4:36 PM

[Sync Now](#)

- Here you can see data about license usage with last and next run times.
- 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.
- When data is syncing at the given interval, the numbers in the Activity log will change accordingly.



Support

For more information relating to this Feature Description document, please contact us at support@invixium.com

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