Feature Description Document

Configuring IXM Link for Galaxy

Purpose

This document outlines the process of configuring IXM Link to sync users between Invixium's IXM WEB and Galaxy's access control system - System Galaxy.

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

Galaxy Module Activation

The option to activate System Galaxy (Galaxy Control Systems) 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. Paste the copied machine key in the email.

STEP 2

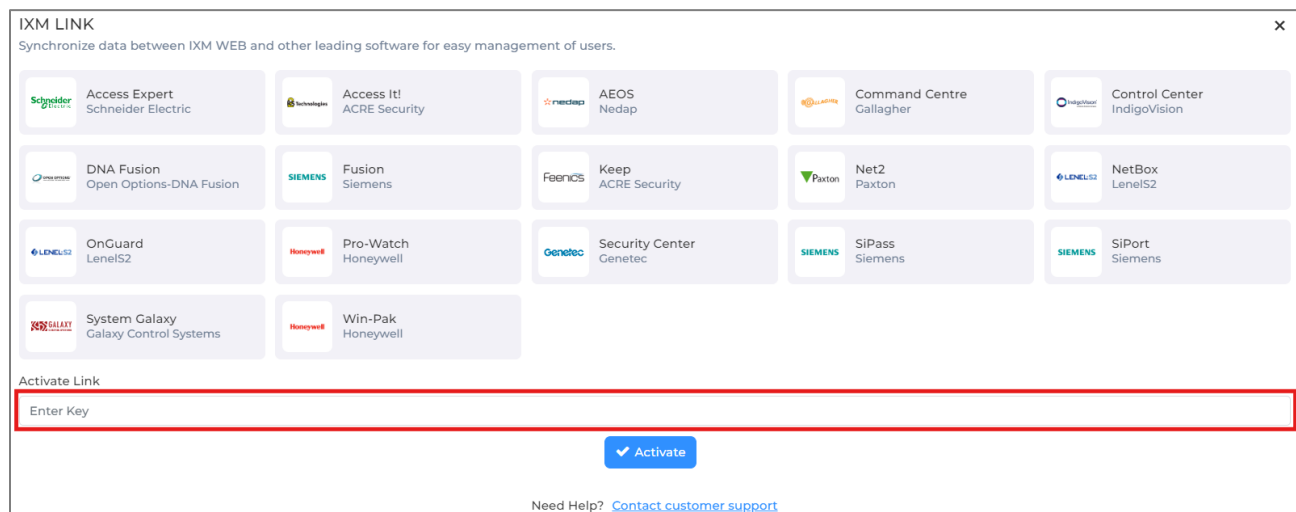You will receive an email from Invixium Support containing a license key for the System Galaxy (Galaxy Control Systems) Activation.
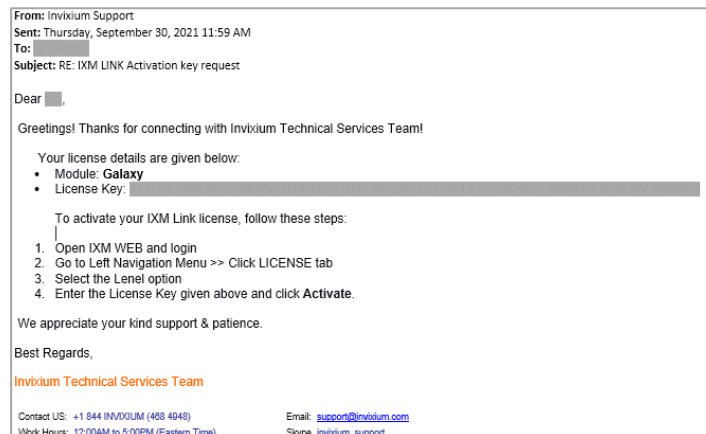
STEP 3

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 Galaxy and configuration can begin.

Configuring Wiegand to Output Galaxy

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**.

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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
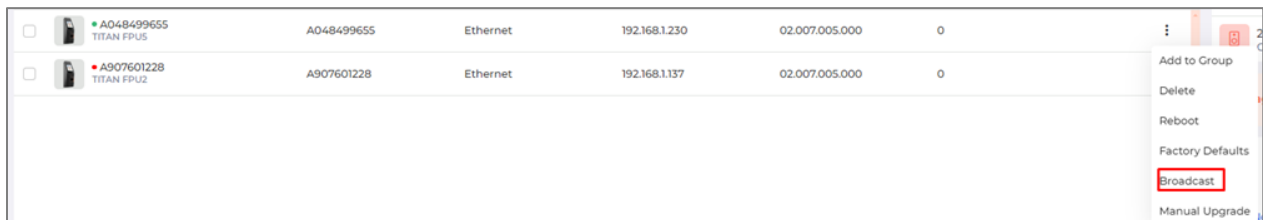
12. Scroll down to the **Access Control** section → check **Wiegand Output** option → Click on **Broadcast**.
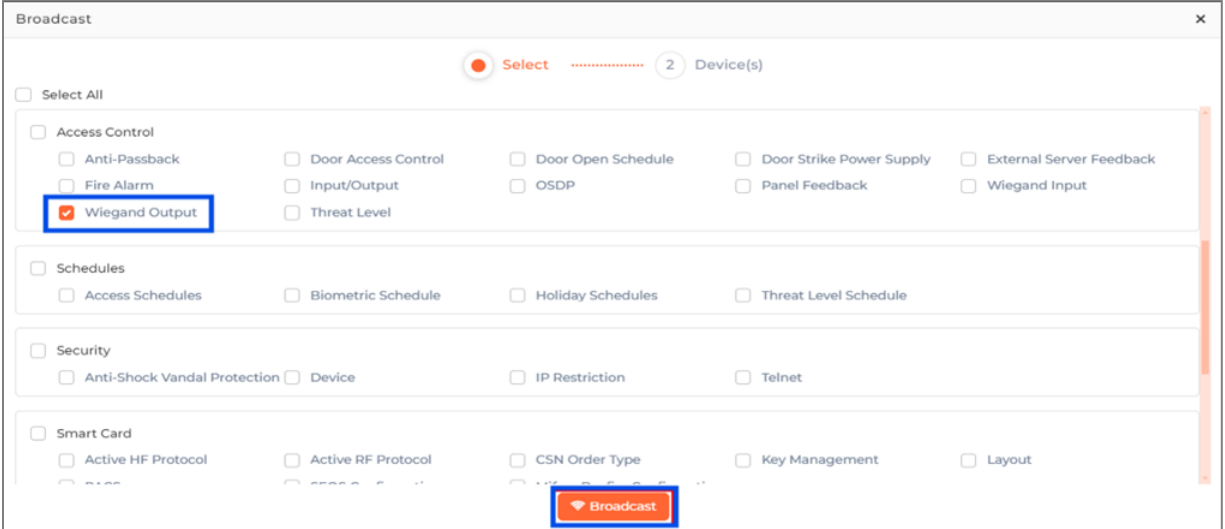
13. Select the rest of the devices in the popup. Click **OK** to copy all Wiegand output settings of the source device to all destination devices.
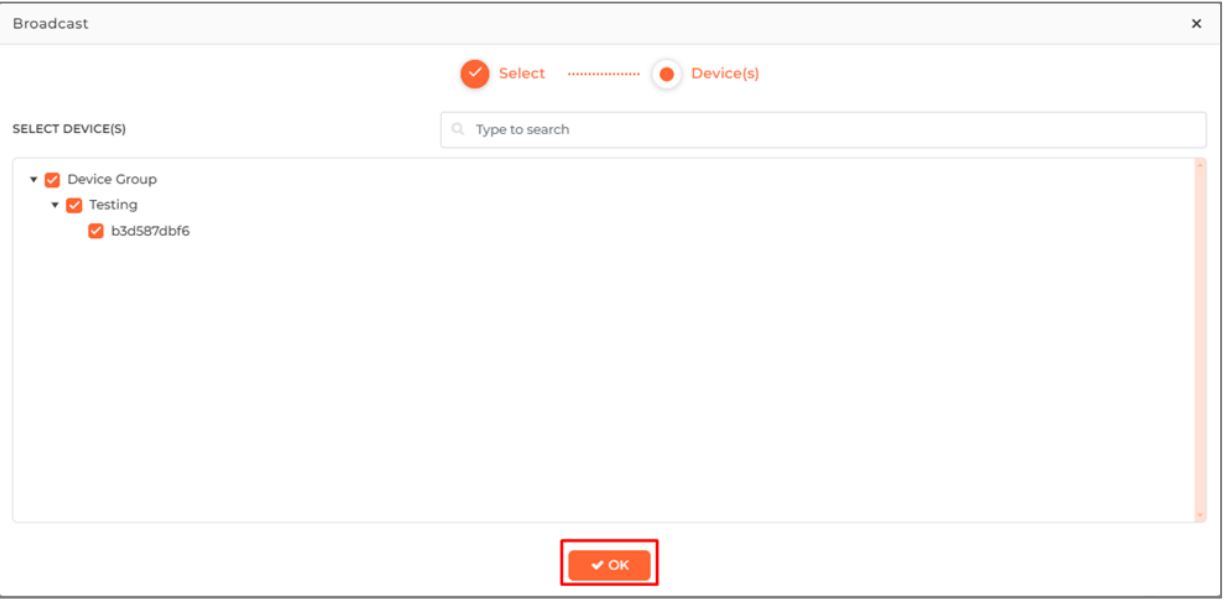
Field Mappings

1.1 General Field Mappings

The following are the Galaxy fields mapped with IXM WEB.

Galaxy Field	IXM Field	Notes
Common ID	User ID	Galaxy allows alphanumeric & special characters in Common ID while IXM WEB allows only alphanumeric in User ID. Hence, IXM LINK will sync only those users whose Common ID value is compatible with IXM WEB. Also, Common ID is not mandatory in Galaxy, and User ID in IXM WEB is mandatory; hence if it is blank, users won't be imported from Galaxy to IXM WEB.
First Name	First Name	
Last Name	Last Name	
Phone	Mobile Phone	
Department	Department	The Department of a user in Galaxy will be imported in IXM WEB. And the department selected from IXM WEB will be exported to Galaxy. However, no new department would be created while exporting users from IXM WEB to Galaxy.
Home Phone (Personal Tab)	Home Phone	
Address1 (Personal Tab)	Address – 1	
Address2 (Personal Tab)	Address -2	
City (Personal Tab)	City	
State (Personal Tab)	State	
Zip Code (Personal Tab)	ZIP Code	
Main Photograph (Personal Tab)	Photo	

Date1 (Personal Tab)	Start Date	If both Date1 and Date2 are specified, then they are synced from Galaxy to IXM WEB.
Date2 (Personal Tab)	End Date	If both Date1 and Date2 are specified, then they are synced from Galaxy to IXM WEB.
D.O.B. (Personal Tab)	Birth Date	
Inactive (Personal Tab)	Suspend User	Galaxy doesn't allow deleting users while using through IXM LINK, so records deleted in IXM WEB are flagged inactive in Galaxy.
PIN (Card/Badge Settings – Card1 Tab)	PIN	The PIN in IXM WEB can range from 4 to 10 digits; while in Galaxy, PINs can range from 0 to 65535. Hence, a PIN will be exported to Galaxy if it lies in the range of 0 to 65535 but only those PINs will work with IXM Devices whose range is between 4 to 10 digits.

1.2 Prox ID Field Mapping

Card Technology	Field in Galaxy	IXM Field
Barcode	Card Code	Prox ID
Card Code	Card Code	
Galaxy Keypad	Card Code	
Magnetic Stripe	Card Code	
U.S. Government ID (FASCN)	Card Code	
ABA Format (Clock/Data)	Card Code	
26 Bit Wiegand	ID Code	
Cypress 37 Bit	ID Code	
HID 37 Bit Standard H10304	ID Code	
HID Corporate 1000	ID Code	
HID Corporate 1000 (48 Bit)	ID Code	

XceedID 40 Bit	ID Code	
P.I.V.	Credential	
BQT (36 Bit)	Access	

1.3 Facility Code Field Mapping

Card Technology	Galaxy Field	IXM Field
Barcode	N/A	Facility Code
Card Code	N/A	
Galaxy Keypad	N/A	
Magnetic Stripe	N/A	
U.S. Government ID (FASCN)	N/A	
ABA Format (Clock/Data)	N/A	
26 Bit Wiegand	Facility Code	
Cypress 37 Bit	Facility Code	
HID 37 Bit Standard H10304	Facility Code	
HID Corporate 1000	Company Code	
HID Corporate 1000 (48 Bit)	Company Code	
XceedID 40 Bit	Site Code	
P.I.V.	Site	
BQT (36 Bit)	Facility	

1.4 Issue Level Field Mapping

Card Technology	Galaxy Field	IXM Field
Barcode	N/A	Issue Level The range is 0 to 15 in Galaxy, hence if the value of Issue Level is not in this range in IXM WEB; its value would be set to 0.
Card Code	N/A	
Galaxy Keypad	N/A	
Magnetic Stripe	N/A	
U.S. Government ID (FASCN)	N/A	
ABA Format (Clock/Data)	N/A	
26 Bit Wiegand	N/A	
Cypress 37 Bit	N/A	
HID 37 Bit Standard H10304	N/A	
HID Corporate 1000	N/A	
HID Corporate 1000 (48 Bit)	N/A	
XceedID 40 Bit	N/A	
P.I.V.	N/A	
BQT (36 Bit)	Issue #	

Configuring LINK for Galaxy

1. Navigate to **Link** → click the **System Galaxy (Galaxy Controm Systems)** 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:

   - **Web Service URL:** Galaxy API URL.

   - **Web Service User:** Name to log in to Galaxy.

   - **Web Service Password:** Password to log in to Galaxy.

   - **Card Type:** Valid Card format which allows syncing of cards between Galaxy and IXM WEB.

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

   - **Sync Direction:**

> ➢ Sync data from Galaxy to IXM WEB
> ➢ Sync data from IXM WEB to Galaxy
> ➢ Sync data both ways. LINK will update IXM WEB first and then Galaxy.

- **Auto Transfer:**

  > ➢ No: Employees synchronized from Keep will not be automatically added to any of the employee groups present in IXM WEB.
  > ➢ Yes: By 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 Keep will be automatically added to the employee group selected on the Link Configuration Page.

- **Employee Group:** Selection of employee group needs to be done foto 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.
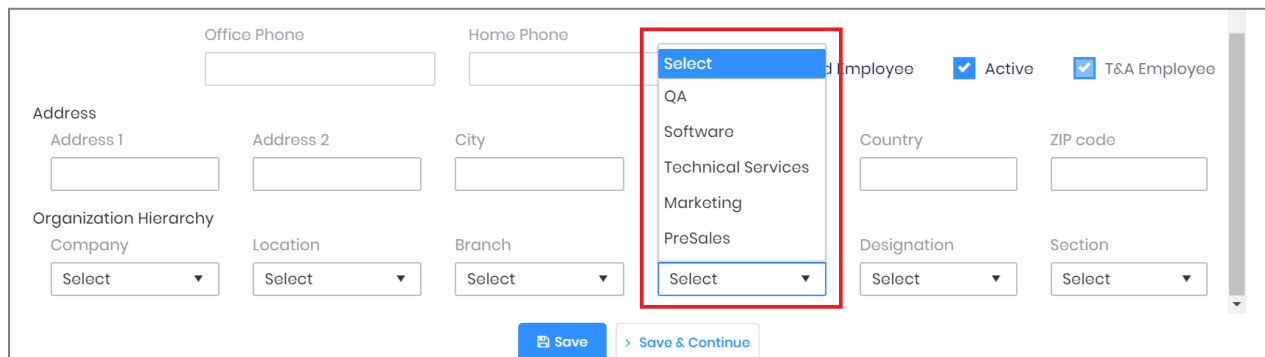

7. Here you can see data pertaining to license usage with last and next run times.

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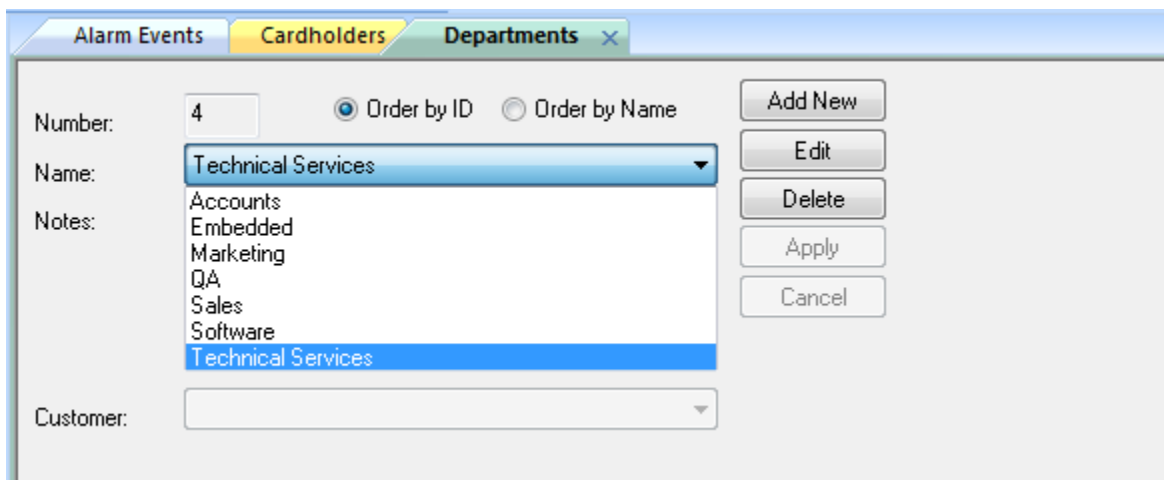
9. When data is syncing at the given interval, the numbers in the Activity log will change accordingly.

Department from Galaxy

1. From **Employees** >> Click **Add (Add New Employee)** on the right.

2. Under the Employee Information section, expand the Department drop-down to see departments imported from Galaxy.

Multiple Cards

Galaxy can have multiple cards per user but IXM WEB supports only one Prox card. Link selects the first available valid card.
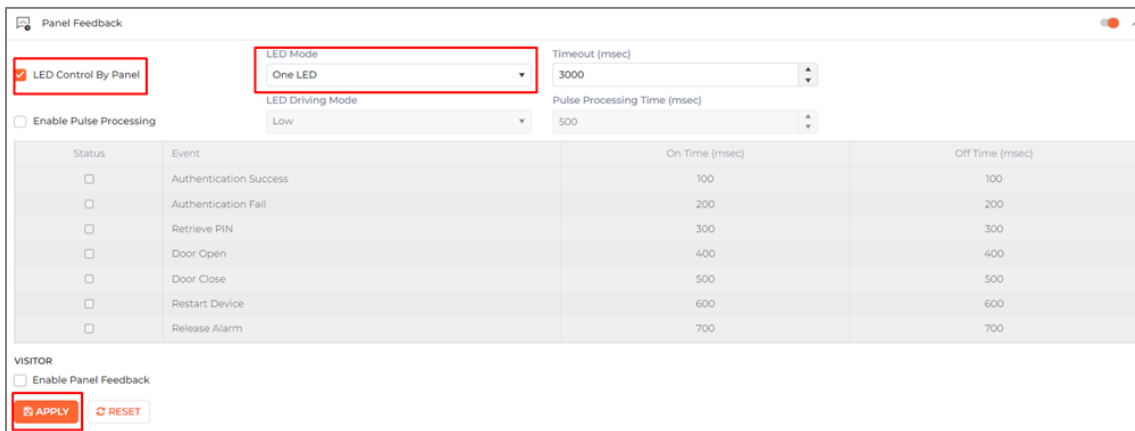
Configuring Panel feedback with Galaxy

1. Connect Wiegand Data D0 of the Galaxy Panel with WDATA_OUT0 of the IXM device, Wiegand Data D1 of the Galaxy Panel with WDATA_OUT1 and Wiegand Ground of the Galaxy Panel with WGND of the IXM Device.

2. Connect LED of Galaxy Panel with ACP_LED1 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.
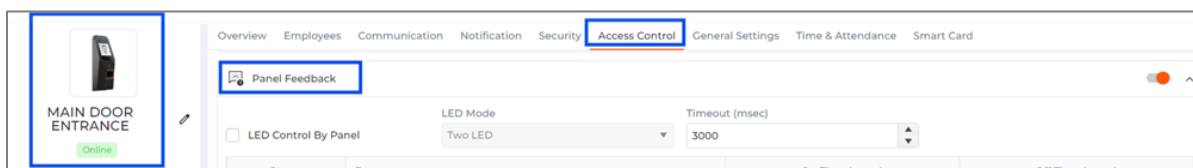
4. Toggle the Panel Feedback switch on the right to **ON**, then Enable LED Control by Panel & Select LED Mode as "One LED".

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

Support

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

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