



Feature Description Document

Configuring IXM Link for Siemens Fusion



Purpose

This document outlines the process of configuring IXM Link to sync users between Invixium's IXM WEB and Siemens Siveillance Fusion.

Applies to

TITAN	TFACE	TOUCH 2	SENSE 2	MERGE 2	MYCRO
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 Siemens Siveillance Fusion to keep IXM WEB users in sync with Siemens Fusion 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 **Fusion (Siemens)** icon.

A screenshot of a software dialog box titled "Fusion 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" (which is selected), "21 to 50", "51 to 100", "101 to 200", "201 to 300", "301 to 500", "501 to 1000", and "Registered devices[1]". Below these options is a blue button with a checkmark and the text "Request". Underneath is a text input field labeled "Activation Key" and a blue button with a checkmark and the text "Activate". At the bottom center is a blue button with an 'X' and the text "Cancel".

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 IXM WEB:
 - a. If SMTP settings are not configured, a “Copy to Clipboard” icon will appear.

Request ×

Date Requested	06/21/2022
Time	6:52 PM
License Request	1 Devices
Machine Key	
Module	SiemensFusion
Version	2.2.250.0

Send above details to support@invixium.com

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	6:52 PM
License Request	1 Devices
Machine Key	
Module	SiemensFusion
Version	2.2.250.0

Send above details to support@invixium.com

Send Cancel

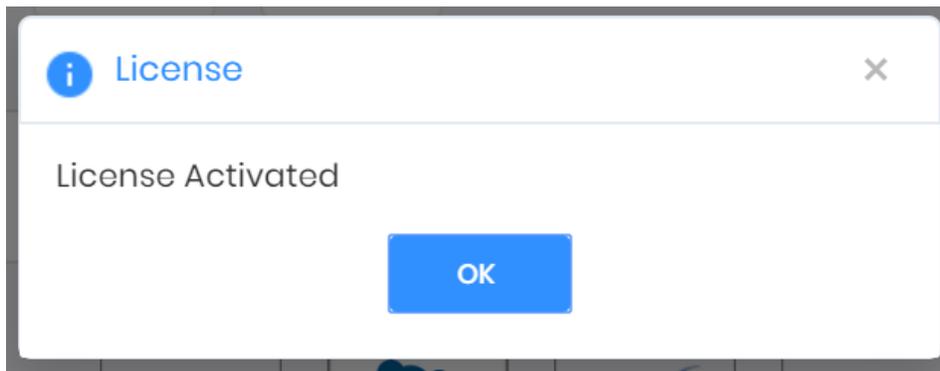
Click **Send** to directly email the details displayed to Invixium support to start the licensing process.



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

A screenshot of a 'Fusion Activation' dialog box. The title bar says 'Fusion Activation' with a close button. Below the title bar is a section labeled 'DEVICES' containing a grid of radio button options: 'Up to 5 (free)', '6 to 20' (selected), '21 to 50', '51 to 100', '101 to 200', '201 to 300', '301 to 500', '501 to 1000', and 'Registered devices[1]'. A 'Request' button is located below these options. Below the device selection is an 'Activation Key' field, which is currently empty and has a blacked-out area. To the right of the field is an 'Activate' button. At the bottom center is a 'Cancel' button.

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





Configuring Wiegand to Output Siemens Fusion

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] [Up Arrow]

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 (μ sec)

Width 40	Interval 2000
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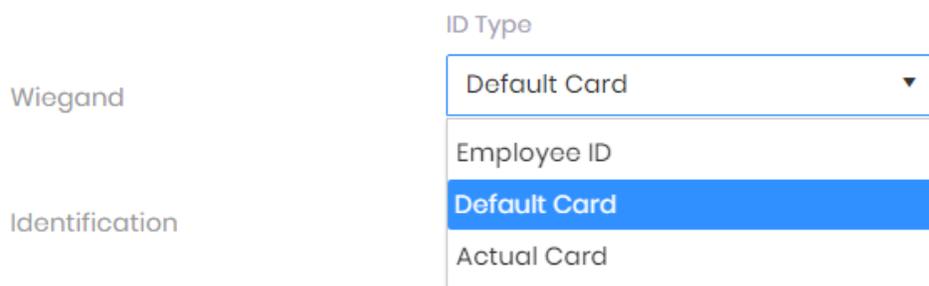
Apply Reset



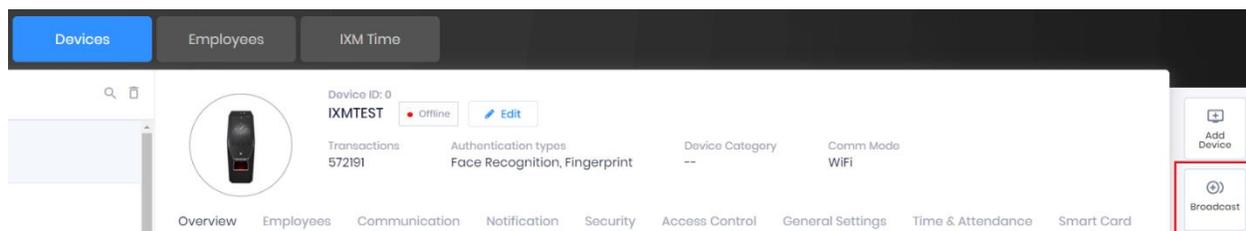
5. Toggle the switch on the right to enable Wiegand Output for the device.
6. Set ID Type of output Wiegand to Employee ID/Default/Actual Card as displayed:

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

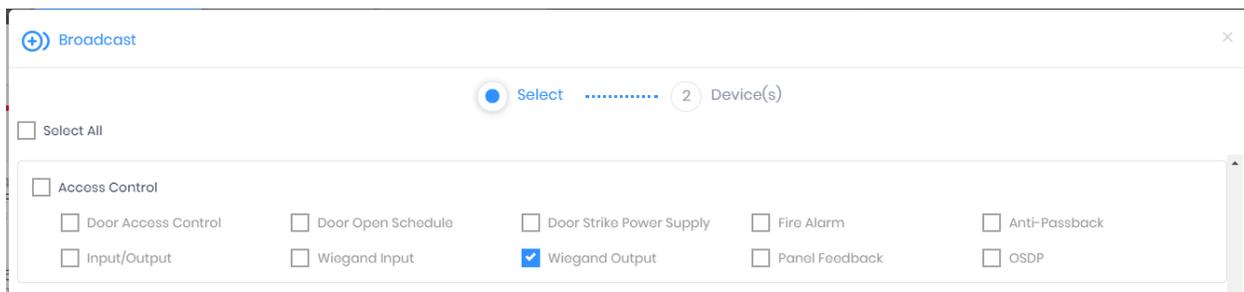


7. Click **Apply**.
8. This will update the Wiegand Output settings of the device selected in step 3.
9. If you have more devices, then follow the next steps to copy all Wiegand settings to all devices simultaneously. *Note: This copies all Wiegand output settings.*
10. From **Home** >> Click the **Devices**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

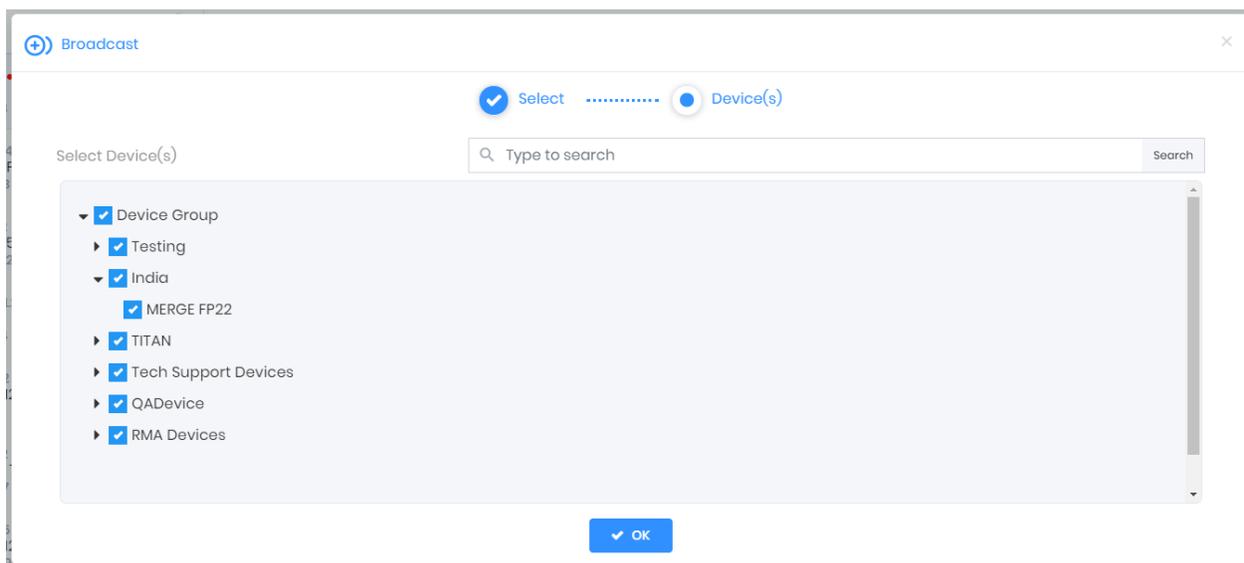




11. Select Wiegand Output as the setting that needs to be broadcasted to other devices as shown below.



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.





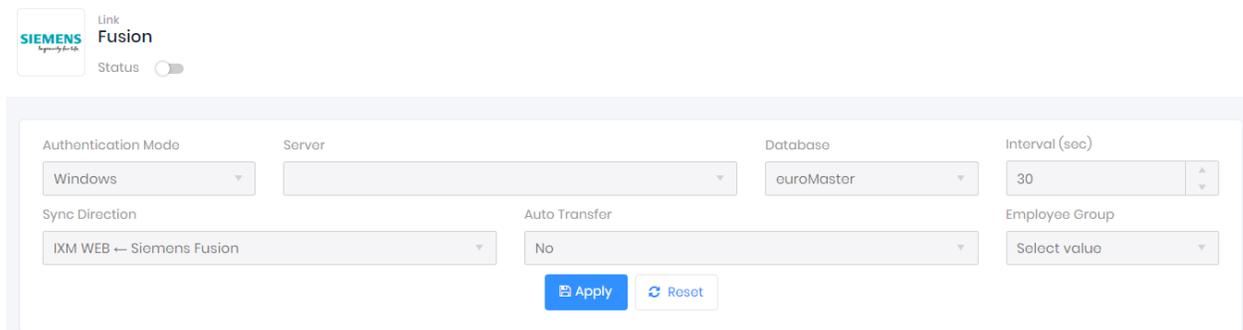
Field Mappings

Below are the Siemens Fusion fields mapped with IXM WEB.

Siemens Fusion Field	IXM Field	Notes
First name	First Name	
Last Name	Last Name	
Employee Number	User ID	
Date of Birth	Birth Date	
Gender	Gender	
Address 1	Address - 1	
Address 2	Address - 2	
City	City	
State	State	
Country	Country	
Phone / Mobile	Mobile	
E-mail	Email	
Phone / Mobile (Emergency)	Home Phone	
Credential Number	Prox ID	
PIN	PIN	
Issue Level	Issue Level	
Site Code	Facility Code	
Delete (Button)	Suspend User	Delete button doesn't actually remove the record from the database in Siemens Fusion. For deleted users, IXM WEB will mark the Suspended user as Active.

Configuring LINK for Siemens Fusion

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

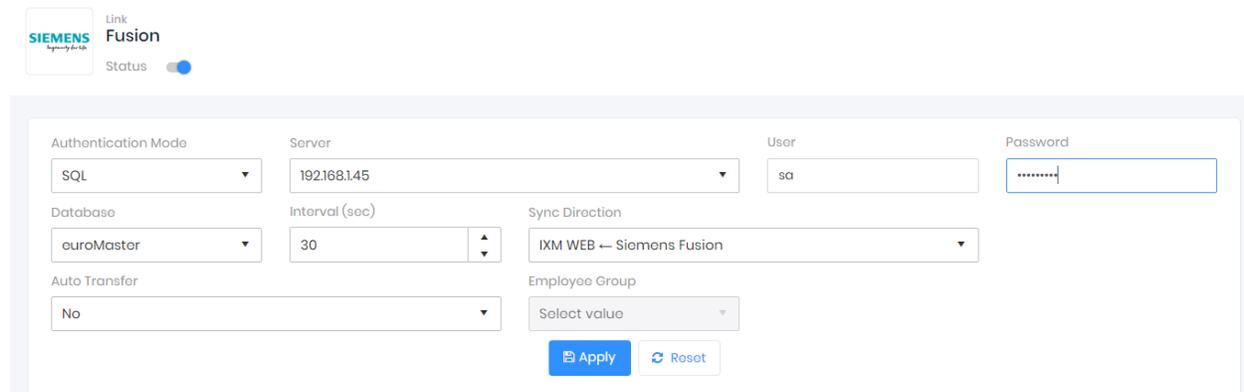


The screenshot shows the 'Link Fusion' configuration page. At the top left, there is a 'SIEMENS' logo and a 'Link Fusion' header. Below the header, a 'Status' toggle switch is in the OFF position. The main configuration area contains several fields:

- Authentication Mode:** Windows
- Server:** (empty)
- Database:** ouroMaster
- Interval (sec):** 30
- Sync Direction:** IXM WEB ← Siemens Fusion
- Auto Transfer:** No
- Employee Group:** Select value

At the bottom of the configuration area, 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 'Link Fusion' configuration page with the 'Status' toggle switch turned ON. The configuration fields are now visible and editable:

- Authentication Mode:** SQL
- Server:** 192.168.1.45
- User:** sa
- Password:** (masked with dots)
- Database:** ouroMaster
- Interval (sec):** 30
- Sync Direction:** IXM WEB ← Siemens Fusion
- Auto Transfer:** No
- Employee Group:** Select value

At the bottom of the configuration area, 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:

Authentication Mode: Windows or SQL Server as authentication mode for login type.

Server: Name or IP of SQL Server Instance where Siemens Fusion database is installed.

User: Username to log in to SQL Server to access database.

Password: Password to log in to SQL Server to access database.

Database: Select the database which contains Siemens Fusion users.

Interval: Latency acceptable between data transfers.

Sync Direction: Sync data from Siemens Fusion to IXM WEB.

Auto Transfer:

- No: Employees synchronized from Keep 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 Keep 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.

Note: If you've created any Employee Group on any device then turn Auto Transfer off by setting it to None of the Employees to Any Device. Employee Group and Device Group are alternative mechanisms provided to distribute employees to devices and they

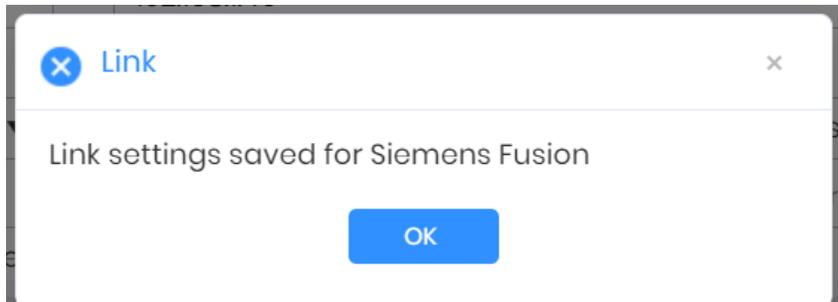
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don't mix well. You should turn this off and use the Employee Group/Device Group feature also when the number of employees imported from Siemens Fusion exceeds the number of employees allowed on IXM device(s).

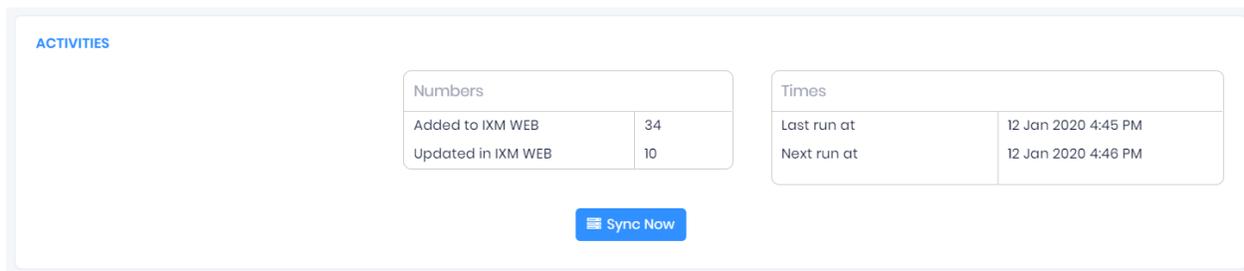
4. Click **Apply** to save the settings.



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 an immediate sync.

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



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

9. 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.

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



Multiple Cards

Siemens Fusion can have multiple cards per user but IXM WEB supports only one Prox card. Link selects the first available valid card.



Support

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

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