



Feature Description Document

Configuring IXM Link for Paxton Net2

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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					

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 <u>support@invixium.com</u>. Paste the copied machine key in the email.

About IXM WEB	×
VERSION 3.0.20.0	
IXM WEB Copyright © 2024 Invixium.	
All rights reserved.	
Invixium <u>Terms of Service</u> .	
THIRD PARTY COMPONENTS	
IXM WEB includes elements and components from	m Telerik's Kendo UI Web. Copyright © 2024,
All rights reserved.	
Ctatus	Expire On
Active	
Active	07/31/2025
B5k6X0y8NFfzQkuxy/kUBNHTNHVpc6yLgBoCitYx	HdT25EuuoX4VHLR2Fps12MjHSj5VUgDHmY
kLAwjAkxvag9EZ/0dujHSU4NfCykXOGbg=	
🔀 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.

From: Invixium Support								
Sent: Thursday, September 30, 2021 11:59 AM								
To:	To: LL Mange							
Subject: RE: IXM LINK Activation key request								
Dear,								
Greetings! Thanks for connecting with Invixium	Technical Services Team!							
Your license details are given below:								
Module: Net2								
License Key:	NU19U33-F7D11W-Q3FEDU-WPUFP9-SSY82F-800AYH-SF6D0V-M98US7							
To activate your IXM Link license, follow	v these steps:							
1 Open IXM WEB and login								
 Open IXW WEB and login Go to Left Navigation Menu >> Click LIC 	CENSE tab							
3 Select the Lenel option								
 Enter the License Key given above and 	click Activate.							
We appreciate your kind support & patience.								
Bard Barrada								
Best Regards,								
Invixium Technical Services Team								
Contact US: +1 844 INVIXIUM (468 4948)	Email: support@invioium.com							
Work Hours: 12:00AM to 5:00PM (Eastern Time)	Skype invixium support							

STEP 3

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

IXM LIN	XM LINK x								
Synchron	Synchronize data between IXM WEB and other leading software for easy management of users.								
Schneider	Access Expert Schneider Electric	Charles and the second	Access It! ACRE Security	*nedap	AEOS Nedap	Queen	Command Centre Gallagher	Olindget/taon	Control Center IndigoVision
	DNA Fusion Open Options-DNA Fusion	SIEMENS	Fusion Siemens	Feenics	Keep ACRE Security	Paxton	Net2 Paxton	Ø LENELS2	NetBox LenelS2
Ø LENEUS2	OnGuard LenelS2	Honeywell	Pro-Watch Honeywell	Genetec	Security Center Genetec	SIEMENS	SiPass Siemens	SIEMENS	SiPort Siemens
KE GALAXY	System Galaxy Galaxy Control Systems	Honeywell	Win-Pak Honeywell						
Activate L	ink								
Enter Ke	Enter Key								
	Activate								
	Need Help? Contact customer support								

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

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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.

🗁 Wiegand Output						• ^
EVENTS						
	ID Type		Duress			
Wiegand	Employee ID	•	None	•		
	Success		Fail			
Identification	Standard 26 bit	•	None	•		
	Success		Fail			
Verification	Standard 26 bit	•	None	•		
	Format		ID Value			
Anti-Shock	IXM 82 bit Device S/N	•	Device Serial Number	•		
	Format		ID Value		Interval (sec)	
Heart Beat	None	•	Device ID	•	60	
	Format					
Employee not found	None	•				
	Format					
Thermal Authentication	Standard 26 bit	•				
	Format					
Mask Not Detected	None	•				
	Format					
Invalid Attestation Questions	None	•				
PULSE (MSEC)						
Width	Interval					
40	2000					
APPLY CRESET						



- 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 \rightarrow check Wiegand Output option \rightarrow Click on Broadcast.



Broa	dcast					×
			Select 2 De	vice(s)		
s	elect All					
	Access Control					
	Anti-Passback	Door Access Control	Door Open Schedule	Door Strike Power Supply	External Server Feedback	
	Fire Alarm	Input/Output	OSDP	Panel Feedback	Wiegand Input	
	Wiegand Output	Threat Level				
	Schedules					٦
	Access Schedules	Biometric Schedule	Holiday Schedules	Threat Level Schedule		
	Security					
	Anti-Shock Vandal Protection	Device	IP Restriction	Telnet		
	Smart Card					
	Active HF Protocol	Active RF Protocol	CSN Order Type	Key Management	Layout	
	0.000	○ cros c	♥ 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.

Broadcast		×
	Select Device(s)	
SELECT DEVICE(S)	Q. Type to search	
🔻 🛃 Device Group		^
🔻 🛃 Testing		
✓ b3d587dbf6		
		*
	✓ ОК	



Field Mappings

The following are the Net2 fields mapped with IXM WEB.

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



LostCard No equivalent	If Lost Token is marked as true in Net2 then IXM WEB will mark null against PROX ID.
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Configuring LINK for Paxton

1. Navigate to Link \rightarrow click the Paxton (Net2) icon.

Paxton Net2 Control Pane	el								
Server			Us	er		Password		Port	
LocalHost			× • s	ystem engineer				8025	*
Interval (sec)		Sync Direction				Auto Transfer			
30	\$	IXM WEB ≒ Paxton			•	No			*
Employee Group									
Select value	Ŧ								
				🖺 Apply 😂 R	Reset				
ACTIVITIES									
Numbers			Numbers in IXM	WEB		Time	es		
0 Added	0 Updated	0 Deleted	0 Added	0 Updated	0 Deleted	- Lat	st run at	- Next run at	
	🗅 Download Add-on								

- 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.

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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 V	VEB		Times	Times	
0 Added	0 Updated	0 Deleted	0 Added	0 Updated	0 Deleted	- Last run at	- Next run at	
Download Add-on								

- 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	and a more		X
 Please select the type of tok 	en which you wish to issue		
<u>I</u> oken type	Default		▼ New type
First name	[Get picture	
Middle name			
Surname			
Department	(none) 🔹		
Access level	No access 🔹		
Telephone			
Fax		Email	
Valid from	7 /17/2017 💌	Position	
Expires end	7 /17/2017	Start date	
Address 1		Car registration	
Address 2		Notes	
Town			
County			-
Post code			
Home telephone		Personnel number	
Home Fax		PIN	Auto PIN
Mobile		Token number	
Card template	· · · · · · · · · · · · · · · · · · ·	Token type	
When I click 'Add user' re When I click 'Add user' re	eload the token type default values etain the previous record values		Enrol Biometric
			Close Add user



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

Add user	of token which you wish to issue			23				
<u>I</u> oken type	Default		▼ New t	type				
Configuration								
IXM WEB Url	http://localhost:9108/	Save	3					
Tavoille Diowsei		Jave						
To open this again right click Enrol Biometric								
		Remove Enrol Biometric						
V-Ed form								
Valid from Expires and	87172017	Fosition						
Address 1	07172017							
Address 2		Notes		*				
Town								
County				-				
Post code				•				
Home telephone		Personnel number						
Home Fax		PIN	Aul	to PIN				
Mobile		Token number						
Card template		 Token type 	- Unspecified	Ŧ				
 When I click 'Add us When I click 'Add us 	er' reload the token type default v er' retain the previous record value	alues es	Enrol B	liometric				
			Close Add	luser				

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.

	MAIN DOOR ENTRANCE	1	Overview	Employees	Communication	Notification	Security	Access Control	General Settings	Time & Attendance	Smart Card		
			Pane	el Feedback]								• ^
				L	ED Mode			Timeout (msec)					
				Control By Pan	el	Two LED		Ŧ	3000		÷		
			S	tatus	Event					On Time (msec)		Off Time (msec)	

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

Panel Feedback									
LED Control By Panel	LED Mode	imeout (msec)							
Enable Pulse Processing	LED Driving Mode	S00 A							
Status	Event	On Time (msec)	Off Time (msec)						
	Authentication Success	100	100						
	Authentication Fail	200	200						
	Retrieve PIN	300	300						
	Door Open	400	400						
	Door Close	500	500						
	Restart Device	600	600						
	Release Alarm	700	700						
VISITOR Enable Panel Feedback CRAPPLY CRESET									

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

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Panel Feedback configuration saved X

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XAD-FDD-570-02G



Support

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

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