



# **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						

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

About IXM WEB X						
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 Telerik's Kendo UI Web. Copyright $\circledcirc$ 2024, All rights reserved.						
ANNUAL SUPPORT CONTRACT INFORMATION						
Status Expire On						
Active 07/31/2025						
B5k6X0y8NFfzQkuxy/kUBNHTNHVpc6yLgBoCitYxHdT25EuuoX4VHLR2Fps12MjHSj5VUgDHmY						
kLAwjAkxvag9EZ/0dujHSU4NfCykXOGbg=						
🛛 IXM WEB Activation 🕒 What's New						



### STEP 2

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

From: Invixium Support								
Sent: Thursday, September 30, 2021 11:59 AM								
Subject: RE: IXM LINK Activation key request								
Dear .								
Dour man,								
Greetings! Thanks for connecting with Invit	xium Technical Services Team!							
Your license details are given below:								
Module: Galaxy								
License Key:	oxia. J. 1903 Yin T. Maoge E. D. J. 1904 1943. SY 924-41 (MAY & Sector & Albhus).							
To activate your IXM Link license, fo	pllow these steps:							
<ol> <li>Open IXM WEB and login</li> <li>Go to Left Navigation Menu &gt;&gt; Click</li> </ol>								
<ol> <li>Select the Lenel option</li> </ol>	A LICENSE IAD							
<ol> <li>Select the Lener option</li> <li>Enter the License Key given above</li> </ol>	and click Activate							
4. Enter the Election rely given above	and click Activate.							
We appreciate your kind support & patient	ie.							
Best Regards.								
best regards,								
Invixium Technical Services Team								
Contact US: +1 844 INVIXIUM (468 4948)	Email: support@invixium.com							
Work Hours: 12:00AM to 5:00PM (Eastern Time)	Skype invixium_support							
TWOK HOURS. 12.00PWI to 0.00PM (Eastern Time)	ckype mikkum_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	KM LINK x									
Synchronia	nchronize data between IXM WEB and other leading software for easy management of users.									
	Access Expert Schneider Electric	🔒 Tochnologies	Access It! ACRE Security	*nedep	AEOS Nedap	Querry	Command Centre Gallagher	Olidgel/user	Control Center IndigoVision	
	DNA Fusion Open Options-DNA Fusion	SIEMENS	Fusion Siemens	Feenics	Keep ACRE Security	Paxton	Net2 Paxton	Ø LENELS2	NetBox LenelS2	
	OnGuard LenelS2	Honeywell	Pro-Watch Honeywell	Genetec	Security Center Genetec	SIEMENS	SiPass Siemens	SIEMENS	SiPort Siemens	
SED GALAXY	System Galaxy Galaxy Control Systems	Honeywell	Win-Pak Honeywell							
Activate Li	nk									
Enter Ke	Enter Key									
	✓ Activate									
	Need Help? Contact customer support									

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.

🔟 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	*			
P APPLY					



- 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					×
	elect All		Select 2 De	vice(s)		
	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					
	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	
	0.8165		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**

## **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	

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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	
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	Prox ID
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	

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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	
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	Equility Code
Cypress 37 Bit	Facility Code	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	
Card Code	N/A	
Galaxy Keypad	N/A	
Magnetic Stripe	N/A	
U.S. Government ID (FASCN)	N/A	Issue Level
ABA Format (Clock/Data)	N/A	The range is 0 to 15 in
26 Bit Wiegand	N/A	Galaxy, hence if the value of
Cypress 37 Bit	N/A	Issue Level is not in this range in IXM WEB; its value
HID 37 Bit Standard H10304	N/A	would be set to 0.
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  $\rightarrow$  click the System Galaxy (Galaxy Controm Systems) icon.

Veb Service URL			We	b Service User	We	eb Service Password	Card Type
						55 55111651 65511010	26 Bit Wiegand X
nterval (sec)		Sync Direction			Au	to Transfer	
30	*	IXM WEB + Galaxy			* N	io	
mployee Group							
Select value	e for more information	on setting up System Gala:	xy for use with Invixium de	vices			
Select value		on setting up System Gala:	xy for use with Invixium de		leset		
Select value		on setting up System Gala:	xy for use with Invixium de		Reset		
Select value fisit Galaxy website		on setting up System Gala:	xy for use with Invixium de	🖺 Apply 😂 R	leset	Times	

- 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:

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- 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.

ACTIVITIES							
Numbers			Numbers in IXM WE	В		Times	
0 Added	0 Updated	0 Deleted	0 Added	0 Updated	0 Deleted	- Last run at	- Next run at
				Sync Now	ic All		

- 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.

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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.

	Office Phone	Home Phone	
			Select d Imployee 🗸 Active 🗹 T&A Employee
ddress Address 1	Address 2	City	Software Country ZIP code
			Technical Services
rganization Hiero	archy		Marketing
Company	Location	Branch	PreSales Designation Section
Select	▼ Select	▼ Select ▼	Select         Image: Select </td

Alarm Events Cardholders Departments ×								
Number:	4	Order by ID	Order by Name		Add New			
Name:	Technica	l Services		-	Edit			
Notes:	Accounts Embedde Marketing QA Sales Software Technica	d I			Delete Apply Cancel			
Customer:				-				



# **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.

Γ			Overview	Employees	Communication	Notification	Security	Access Control	General Setting	s Time & Attendance	Smart Care	d	
			Pane	el Feedback									^
	MAIN DOOR	0				ED Mode			Timeout (msec)				
	Online	Ĩ		Control By Pan	iel	Two LED		v	3000		*		
L			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 & Select LED Mode as "One LED".

LED Control By Panel	One LED	•	Timeout (msec) 3000	*	
Enable Pulse Processing			Pulse Processing Time (msec) 500 *		
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

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

Panel Feedback configuration saved X



## **Support**

For more information relating to this Feature Description document, please contact us at <a href="mailto:support@invixium.com">support@invixium.com</a>

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