

IXM WEB Integration with WIN-PAK by Honeywell

Installation Instructions

V4.0



Table of Contents

1.	Introduction	8
	Purpose	8
	Description	8
	Acronyms	8
	Field Mappings	9
2.	Compatibility	10
	Invixium Readers	10
	Software Requirements	10
	Other Requirements	11
	Compatibility Matrix for IXM WEB & WIN-PAK Integration:	11
3.	Checklist	12
4.	Task List Summary	13
5.	Prerequisites for Installing Invixium IXM WEB Software	14
	Acquiring an IXM WEB activation key	14
	Minor Checklist and Considerations	16
6.	Installing IXM WEB	17
	Software Install	17
7.	Configuring Email Settings using IXM WEB	
	Email Setting Configuration	25
8.	Software and Module Activation	
	IXM WEB Activation	
	WIN-PAK Module Activation	32
9.	Configuring IXM Link for WIN-PAK	35
10.	. Add and Configure Invixium Readers	39
	Adding an Invixium Reader in IXM WEB	39
11.	. Adding an Invixium Device to a Device Group	44
	Configuring Wiegand Format to Assign Invixium Readers	
	Assign Wiegand to Invixium Readers	
	Configuring Panel Feedback with WIN-PAK	51
	Configuring Thermal Settings	53



17	Disclaimer and Restrictions	100
16.	Support	109
	Logs in IXM WEB Application	107
	Reader Offline from the IXM WEB Dashboard	
26.	Troubleshooting	
	OSDP Connections	104
	Wiegand Connection with Panel Feedback	
	Wiegand Connection	
	Wiring	
	Wiring and Termination	
	Configuring for OSDP Connection	
	Pushing Configuration to Multiple Invixium Readers	92
25.	Appendix	92
	Installing Proxy on Client Machine	90
	Exporting Proxy from Server Machine	
	Configuration Of Group Policy	
23.	Prerequisites for Integration when IXM WEB and Honeywell WIN-PAK are Installed on Different Servers	76
13.	Configure Note Field for Email in WIN-PAK	70
	Face Enrollment Best Practices	69
	Finger Vein Enrollment Best Practices	
	Fingerprint Imaging Do's and Don'ts	
	Fingerprint Image Samples	
	Avoid Poor Fingerprint Conditions	
12.	Fingerprint Enrollment Best Practices	
42	Enrollment Best Practices	
	Configuring Mask Authentication Settings	
	Change Temperature Unit Settings	
	Test Calibration Options	
	Thermal Calibration	56



List of Figures

EL A DAMAGE O EL D E	
Figure 1: IXM WEB Online Request Form	
Figure 2: Sample Email After Submitting Online Request Form	
Figure 3: IXM WEB Installer	
Figure 4: Advanced Options in IXM WEB Installer	18
Figure 5: Invixium Fingerprint Driver Installation Message	19
Figure 6: IXM WEB Installation Progress	
Figure 7: IXM WEB Installation Completed	20
Figure 8: IXM WEB Icon - Desktop Shortcut	
Figure 9: IXM WEB Database Configuration	21
Figure 10: IXM WEB Administrator User Configuration	22
Figure 11: IXM WEB Login Page	24
Figure 12: Configure Email	25
Figure 13: IXM WEB - SMTP Settings	26
Figure 14: IXM WEB - Save Email Settings	27
Figure 15: IXM WEB – Test Connection	27
Figure 16: IXM WEB - Forgot Password	28
Figure 17: IXM WEB - Enter Login Credentials	29
Figure 18: IXM WEB - License Setup	30
Figure 19: IXM WEB - Online Activation	31
Figure 20: IXM WEB – Request Link License	32
Figure 21: WIN-PAK License Key Email	33
Figure 22: IXM WEB – WIN-PAK Link Activation	34
Figure 23: IXM WEB - Enable WIN-PAK Link Module	35
Figure 24: IXM WEB - Map Access Group to User Group	36
Figure 25: IXM WEB - Auto Transfer No	36
Figure 26: IXM WEB - Auto Transfer Yes	37
Figure 27: IXM WEB – Import Criteria	37
Figure 28: IXM WEB - Sync Activities	38
Figure 29: IXM WEB - Devices Tab	
Figure 30: IXM WEB - Search Device Using IP Address	
Figure 31: IXM WEB - Register Device	



Figure 32: IXM WEB - Device Registration Complete	42
Figure 33: IXM WEB - Dashboard, Device Status	43
Figure 34: IXM WEB - Assign Device Group	44
Figure 35: IXM WEB - Create Wiegand Format	45
Figure 36: IXM WEB - Create Custom Wiegand Format	46
Figure 37: IXM WEB - Custom Wiegand Format	46
Figure 38: IXM WEB – Custom Wiegand Format Created	47
Figure 39: IXM WEB - Upload Wiegand Format	
Figure 40: IXM WEB - Navigate to Access Control Tab	48
Figure 41: IXM WEB - Wiegand Output	49
Figure 42: IXM WEB - Save Output Wiegand	50
Figure 43: IXM WEB - Panel Feedback	51
Figure 44: IXM WEB - Configuring Panel Feedback in IXM WEB	52
Figure 45: IXM WEB - Save Panel Feedback	52
Figure 46: IXM WEB - Thermal Settings	53
Figure 47: IXM WEB - Save Thermal Settings	55
Figure 48: IXM WEB - Thermal Calibration Settings	56
Figure 49: IXM WEB - Save Thermal Calibration Settings	57
Figure 50: IXM WEB - Capture Thermal Data	57
Figure 51: IXM WEB - Save Captured Thermal Data	58
Figure 52: IXM WEB - Test Thermal Calibration	59
Figure 53: IXM WEB - Option to Change Temperature Unit	60
Figure 54: IXM WEB - Save Temperature Unit Setting	61
Figure 55: IXM WEB - Mask Authentication Settings	62
Figure 56: IXM WEB - Save Mask Settings	64
Figure 57: Fingerprint Enrollment Best Practices	65
Figure 58: Fingerprint Images Samples	66
Figure 59: Finger Vein Enrollment Best Practices	68
Figure 60: Face Enrollment Best Practices	69
Figure 61: WIN-PAK Note Field Template	70
Figure 62: WIN-PAK Add New Note Field	71
Figure 63: WIN-PAK Create Note Field	72
Figure 64: WIN-PAK Card Holder Tab Layout	72
Figure 65: WIN-PAK Add New Card Holder Tab Layout	73
Figure 66: WIN-PAK Add Note Field to Card Holder Tab	74
Figure 67: Save Card Holder Tab Layout	75
Figure 68: Add Card Holder Window	75
Figure 69: WIN-PAK Open Group Policy Editor	



Figure 70: WIN-PAK Security Options	77
Figure 71: WIN-PAK DCOM SDDL Syntax	77
Figure 73: WIN-PAK DCOM Access Restrictions - Edit Securities	78
Figure 74: WIN-PAK Access Permissions for DCOM Users	79
Figure 75: WIN-PAK Access Permissions for Users and Groups	80
Figure 76: WIN-PAK DCOM Launch Restrictions - Edit Securities	81
Figure 76: WIN-PAK Launch Permissions for Users and Groups	82
Figure 77: WIN-PAK Launch Permissions for Users	83
Figure 78: WIN-PAK Group Policy Update	83
Figure 79: WIN-PAK Component Services	84
Figure 80: WIN-PAK COM+ Applications	85
Figure 81: WIN-PAK CS ComServer Helper	86
Figure 82: WIN-PAK COM+ Application Export Wizard	86
Figure 83: WIN-PAK Browse	87
Figure 84: WIN-PAK Export Application Proxy	88
Figure 85: WIN-PAK Finish Exporting	88
Figure 86: WIN-PAK Communication Server API Setup	89
Figure 87: WIN-PAK CS DBServer Helper	89
Figure 88: Installation of WIN-PAK CS CommServer Helper	90
Figure 89: Installation of WIN-PAK CS DBServer Helper	90
Figure 90: WIN-PAK Client COM+ Applications	91
Figure 91: IXM WEB - Broadcast Option	92
Figure 92: IXM WEB - Broadcast Wiegand Output Settings	93
Figure 93: IXM WEB - Broadcast to Devices	93
Figure 94: IXM WEB - OSDP Settings	94
Figure 95: IXM WEB - Save OSDP Settings	97
Figure 96: IXM WEB - Edit Device Options	97
Figure 97: IXM WEB - Disable Panel Feedback	98
Figure 98: Earth Ground Wiring	99
Figure 99: IXM TITAN – Top & Bottom Connector Wiring	100
Figure 100: Power, Wiegand & OSDP Wires	101
Figure 101: IXM TITAN - Wiegand	102
Figure 102: IXM TITAN – Panel Feedback	103
Figure 103: IXM TITAN – OSDP Connections	104
Figure 104: IXM WEB - Server URL Setting	105
Figure 105: IXM WEB - Server URL Setting from General Settings	106
Figure 106: IXM WEB - Enable Device Logs	107
Figure 107: Save Device Log File	107



List of Tables

Table 1: Compatibility Matrix for IXM WEB & Honeywell WIN-PAK Integration	11
Table 2: Task List Summary	13
Table 3: System Related Checklist	16
Table 4: Port Information	16
Table 5: IXM WEB - OSDP Configuration Options	96
Table 6: IXM WEB - OSDP Text Options	96
Table 7: Logs Folder Location1	80



1. Introduction

Purpose

This document outlines the process of configuring the software integration between WIN-PAK by Honeywell and Invixium's IXM WEB.

Description

IXM Link, a licensed module in IXM WEB, is required to synchronize the user database between IXM WEB (where biometric enrollment for users is performed) and WIN-PAK Software (where access rules for the users and the organization are managed).

Note: To activate IXM Link within IXM WEB, the installer must contact Invixium Support at support@invixium.com to obtain the activation key.

The following sections will describe how to set up and configure IXM Link to keep IXM WEB users in sync with WIN-PAK.

Acronyms

Acronym	Description
ACPCS	Access Control Panel Configuration Software
API	Application Programming Interface
IXM	Invixium



Field Mappings

The following are the Honeywell WIN-PAK fields that are mapped to IXM WEB:

WIN-PAK Field	IXM Field	Notes
First name	First Name	
Last name	Last Name	
Card Number (Card)	Number (Card)	
Issue (Card)	Issue Level (Card)	
Activation Date (Card)	Activation Date (Card)	
Expiration Date (Card)	Expiry Date (Card)	
Photo/Badge (Card Biometrics)	Employee Photo	
Status (Card)	Status (Card)	Active is mapped with the card's Active status in IXM WEB. Lost/Stolen is mapped with the Lost status of the card in IXM WEB. Others will be inactive in IXM WEB.
Access Level	User Group / Device Group / Sync Group	Setting Map Access Group to YES in configuration will create an employee group, device group, and sync group in IXM WEB. Further employees imported from Honeywell WIN-PAK will be added to this created employee group and will be used for automatic transfer to IXM Devices.

Note: Multiple Cards – Honeywell WIN-PAK can have multiple cards per user, and IXM WEB supports a maximum of 10 cards per user. IXM Link selects the available valid cards.



2. Compatibility

Invixium Readers

TITAN	TFACE	TOUCH2	SENSE2	MERGE2	MYCRO
All models					

Software Requirements

Application	Version
Honeywell WIN-PAK	V4.9+
Invixium IXM WEB	3.0.25 <u>36</u> .0
Operating Systems	Windows 11 Pro
	Windows 10 Professional Version
	Windows Server 2016 Standard Windows
	10 Professional Version
	Windows 11 Pro
	Windows Server 2016 Standard
	Windows Server 2019
Microsoft .NET Framework	.NET Framework 4.8
Database Engine	SQL Server 2016+
	Supported but not recommended: (legacy)
	SQL server 2014 Express Edition (Default Installation)
Internet Information Services (IIS)	Microsoft® Internet Information Services version 10.0
Web Browser	Google Chrome
	Mozilla Firefox
	Microsoft Edge (Internet Explorer not recommended)



Other Requirements

Server	2.4 GHz Intel Pentium or higher
RAM	8 GB or higher
Networking	10/100Mbps Ethernet connections

Note: Server requirements mentioned are ideal for 10-15 devices registered with 500 employees or fewer. For large enterprise installation server requirements, contact support@invixium.com.

Compatibility Matrix for IXM WEB & WIN-PAK Integration:

IXM WEB version	WIN-PAK version	Compatible
IXM WEB 2.2.252.0	V4.9	Yes
IXM WEB 2.2.330.0	V4.9	Yes
IXM WEB 2.3.2.0	V4.9	Yes
IXM WEB 3.0.36.0	V4.9	Yes
IXM WEB 3.0.25.0	V4.9	Yes

Table 1: Compatibility Matrix for IXM WEB & Honeywell WIN-PAK Integration



3. Checklist

Item List	Interface
Prerequisites For IXM WEB Installation	Invixium
Installation Of IXM WEB	Invixium
Email Configuration in IXM WEB	Invixium
IXM WEB And IXM Link Activation	Invixium
Configure IXM Link for Honeywell WIN-PAK	Invixium
Configure Invixium Reader	Invixium
Configure Note Field for Email (Optional)	Honeywell WIN-PAK

Configuration for Integration when IXM WEB and Honeywell WIN-PAK are installed on different servers



4. Task List Summary

Task	IXM WEB Application Task List using IXM WEB	Honeywell WIN-PAK Task List using WIN-PAK
1	Activate IXM WEB and IXM Link for Honeywell WIN-PAK.	Create a cardholder. Assign Card and Access Level to the cardholder.
2	Configure IXM Link for WIN-PAK.	Create a Note Field in WIN-PAK for email configuration.
3	Register the IXM Device and configure settings as per the requirement.	
4	Configure Weigand or OSDP settings on the device as per the requirement.	
5	Assign a specific Device Group to the device.	

Table 2: Task List Summary



1. Prerequisites for Installing Invixium IXM WEB Software

Acquiring an IXM WEB activation key

Procedure

STEP 1

Complete the online form to receive instructions on how to download IXM WEB: https://www.invixium.com/download-ixm-web/.

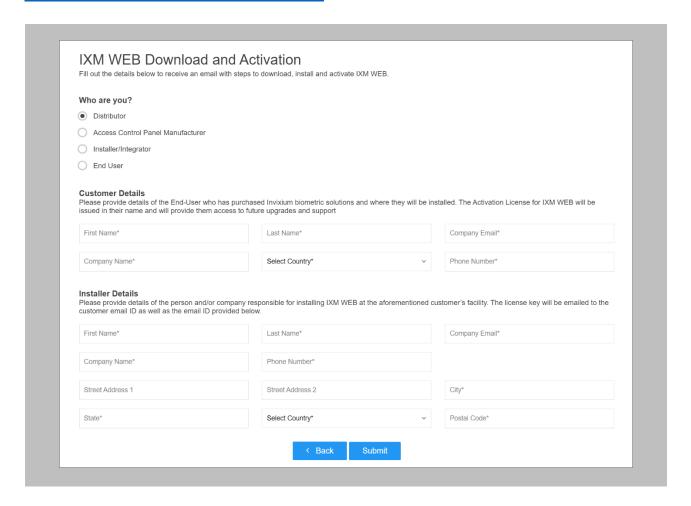


Figure 1: IXM WEB Online Request Form



After submitting the completed form, an email will be sent with instructions from support@invixium.com to the email ID specified in the form.

Please ensure to check the spam or junk folder.

See below for a sample of the email that includes instructions on how to download and install IXM WEB along with your Activation ID.

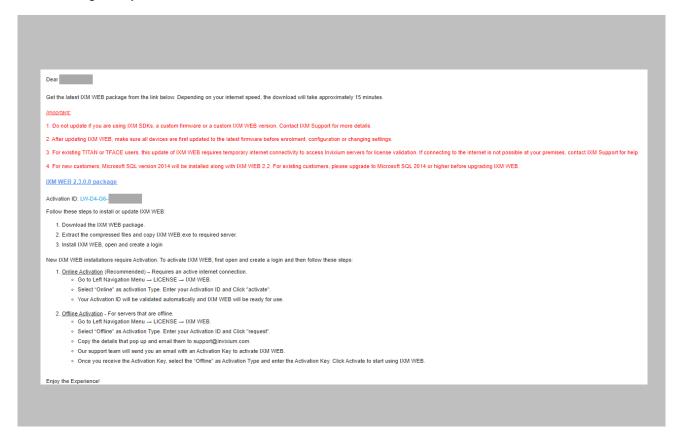


Figure 2: Sample Email After Submitting Online Request Form



Minor Checklist and Considerations

Use these tables to verify that you have carried out all required steps.

Other Minor Checklist	
	Windows Operating system needs to be up to date.
Windows Updates	System updates should not be pending. If any update is downloaded, you will have to restart the system to complete the Windows update.
User Privileges	The person who is setting up IXM WEB Installation should have full administrator rights.

Table 3: System Related Checklist

Port Assignment	Port
Inbound HTTP Port	9108
TCP	1433
Port to communicate between IXM WEB & Devices	9734
Inbound Port	1255

Table 4: Port Information



2. Installing IXM WEB

Software Install

Procedure

STEP 1

Run the IXM WEB installer (Run as administrator).

Select Advanced.

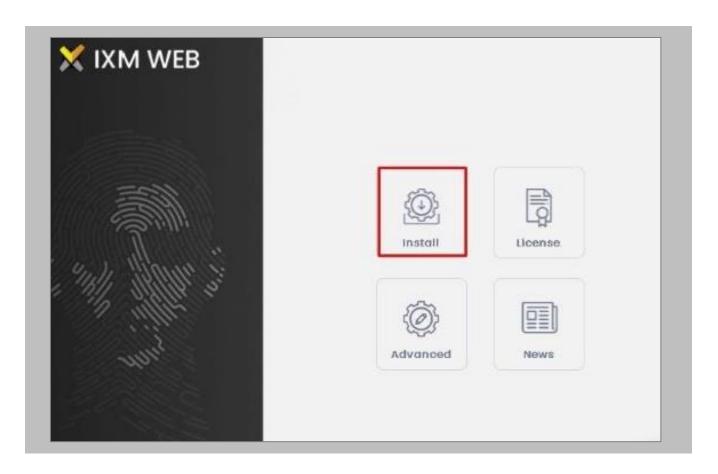


Figure 3: IXM WEB Installer



Deselect Install SQL Server and select Install.

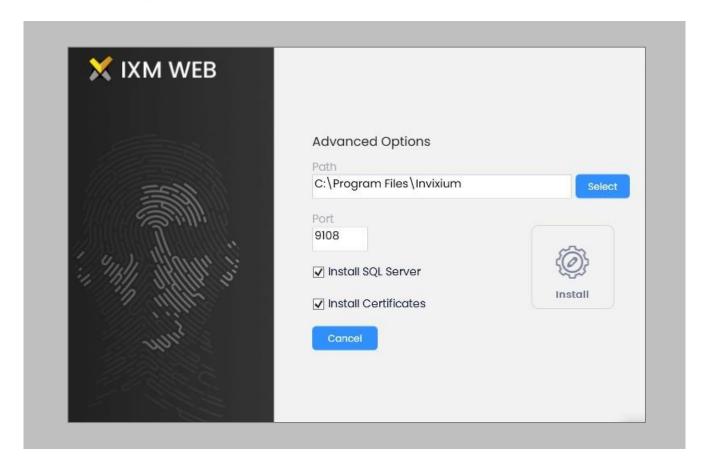


Figure 4: Advanced Options in IXM WEB Installer



During the installation, you may see this message, click Install.

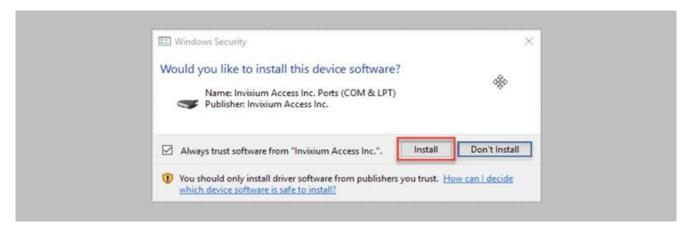


Figure 5: Invixium Fingerprint Driver Installation Message

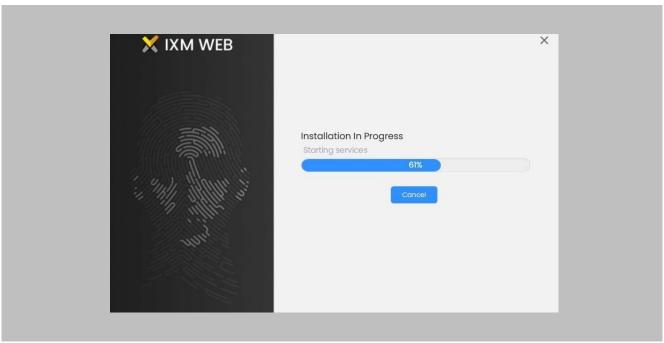


Figure 6: IXM WEB Installation Progress



After the installation completes, you should see the following screen:



Figure 7: IXM WEB Installation Completed

Click on the X in the upper right corner to close.

STEP 5

Double click on the new desktop shortcut to open IXM WEB.







Figure 8: IXM WEB Icon - Desktop Shortcut

IXM WEB will open in your default browser (initial opening may take a few minutes).

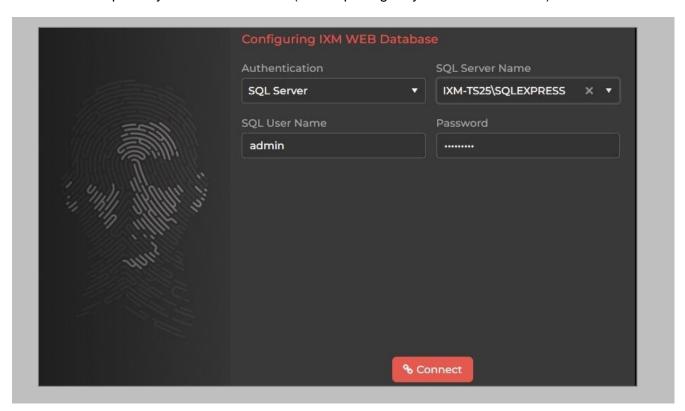


Figure 9: IXM WEB Database Configuration



Select the **SQL Server** authentication and the **Server Name** from the drop-down options. If it does not appear, enter it manually.

STEP 7

Enter the user credentials created above and leave IXMDB as the database name.

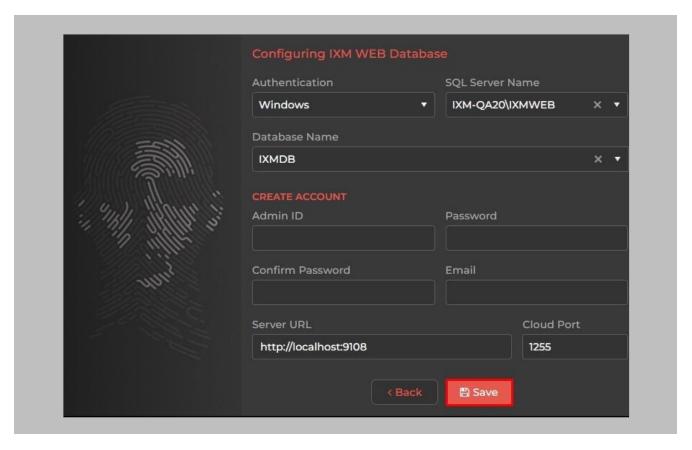


Figure 10: IXM WEB Administrator User Configuration

Now comes the step to create the user account for Invixium to access the database itself.



Create a user account (this is different from the identity used to connect to the SQL instance at the top of the page). The status bar will indicate the strength of the chosen password.

STEP 9

Change http://localhost:9108 to http://[IP address of server]:9108

For example:

If the IP address of the server is 192.168.1.100, then specify the Server URL as the following:

http://192.168.1.100:9108

STEP 10

Click Save. The software will now create the database and continue setup. This could take several minutes.



When IXM WEB is finished installing, you should be prompted with the following screen:

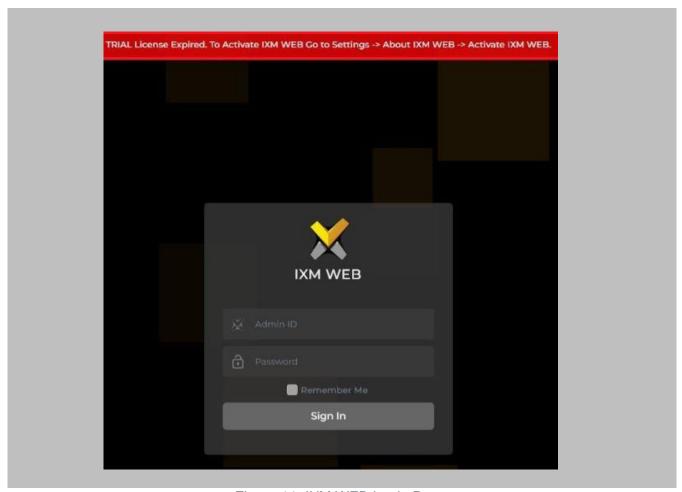


Figure 11: IXM WEB Login Page

Note: During an upgrade of IXM WEB from any previous release to 3.0.25.0, an internet connection is required for license validation. As this new version includes a face algorithm update, it will automatically convert templates without the need for re-enrollment of faces.



3. Configuring Email Settings using IXM WEB

Configuring Email settings is highly recommended as one of the first steps after installing IXM WEB. Email configuration settings will help the admin retrievie the password for IXM WEB in case it is forgotten. In addition, having email settings configured also makes activation and license key requests easier.

Email Setting Configuration

Procedure

STEP 1

Login and navigate to **Settings** icon on top right of the page → **System Notifications** → Click on **SMTP Settings**.

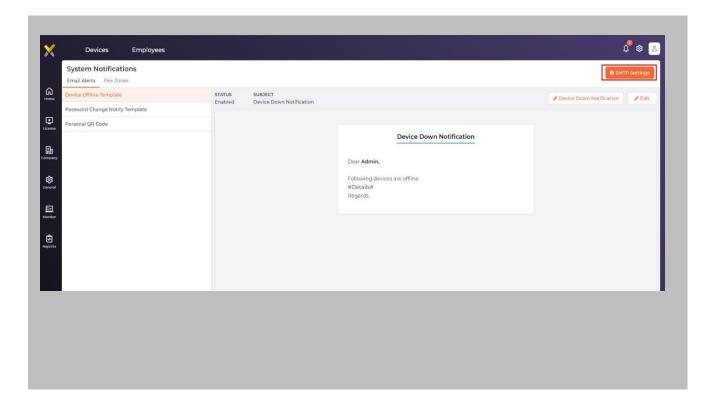


Figure 12: Configure Email



Enable "Status" and enter values for "SMTP Host", "SMTP Port", and "Send email message from" fields.

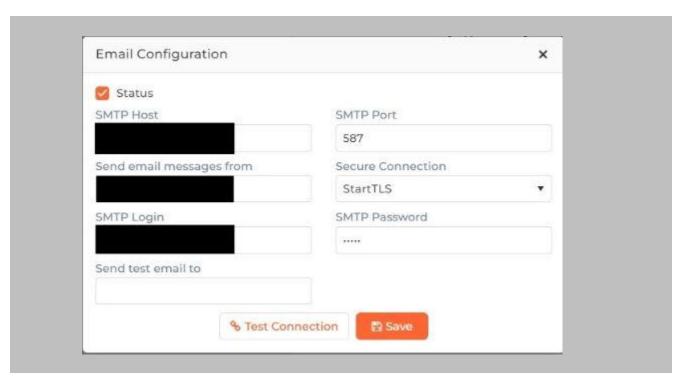


Figure 13: IXM WEB - SMTP Settings

Note: If Gmail/Yahoo/MSN etc. email servers are used for "SMTP Host" then "SMTP Login" and "SMTP Password" values need to be provided. Also in this case, "Secure Connection" needs to be set to either SSL or SSL/StartTLS.



After entering the values, click Save to save the SMTP Settings on the IXM WEB database.

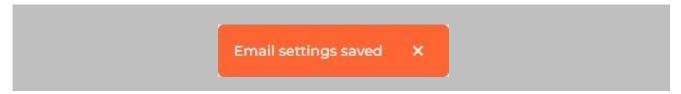


Figure 14: IXM WEB - Save Email Settings

To test the settings, navigate to **Settings** icon on top right of the page → **System Notifications** → Click on **SMTP Settings**. Provide a valid email address under **Send test email to** >> Click the **Test Connection** button.

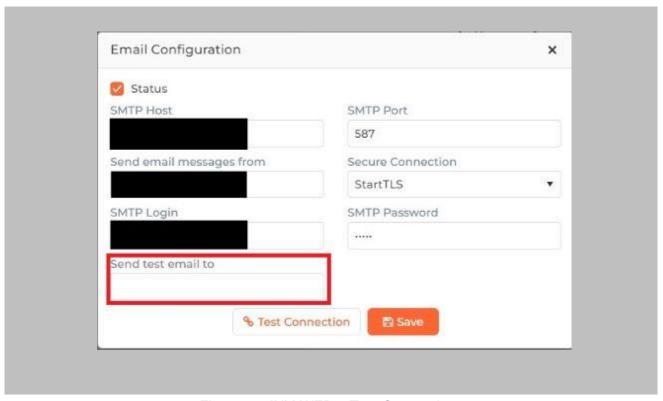


Figure 15: IXM WEB – Test Connection



Once email configuration is completed, a **Forgot password** link will appear on the Sign In page in its place.

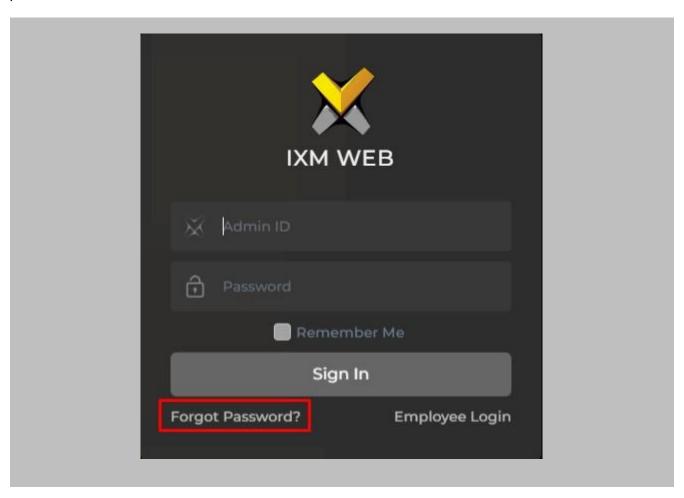


Figure 16: IXM WEB - Forgot Password



4. Software and Module Activation

IXM WEB Activation

Procedure

STEP 1

Log into IXM WEB.

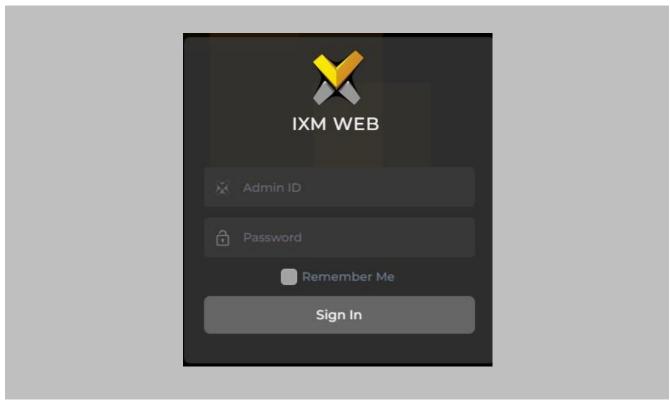


Figure 17: IXM WEB - Enter Login Credentials



Select the **Settings Icon** on top right of page then click **About IXM WEB.**

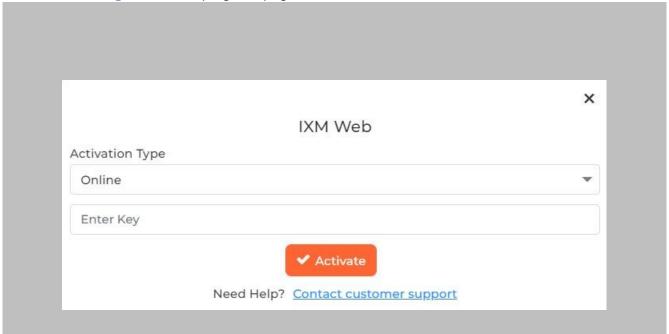


Figure 18: IXM WEB - License Setup

STEP 3

Request Activation Key Online or via Offline Activation Options.

Note: The Activation ID is in the email received when registering. If online activation fails, check with your local IT as the client may be blocked by your network.



Once the system is activated, the Status will be displayed as Active.

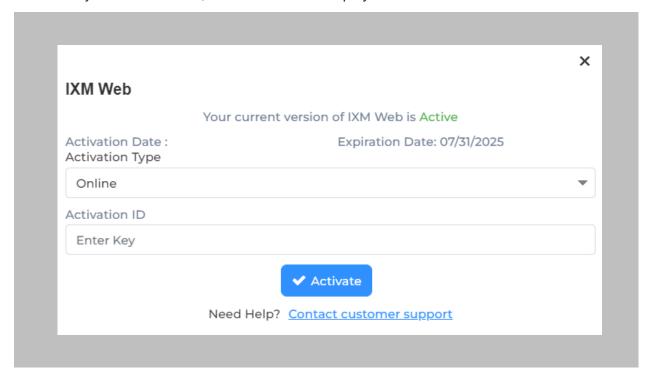


Figure 19: IXM WEB - Online Activation



WIN-PAK Module Activation

The option to activate a Honeywell WIN-PAK 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.

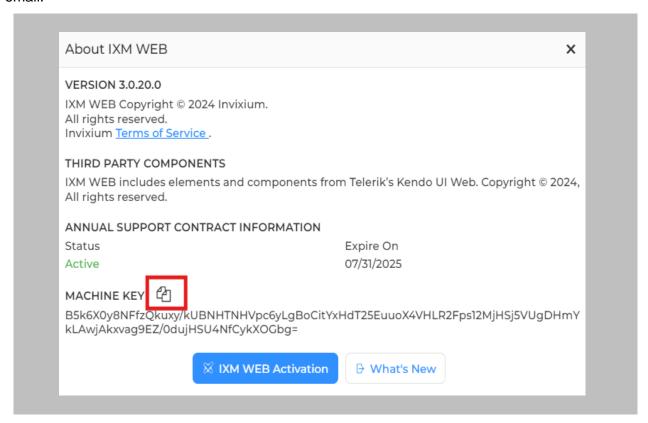


Figure 20: IXM WEB – Request Link License



You will receive an email from Invixium Support containing a license key for the Honeywell WIN-PAK Activation.

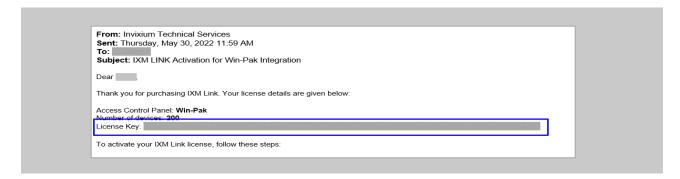


Figure 21: WIN-PAK License Key Email



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

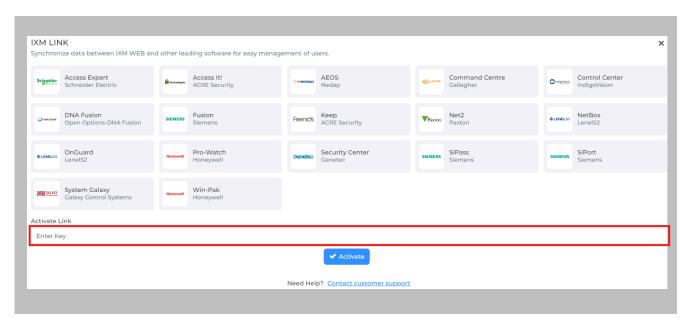


Figure 22: IXM WEB – WIN-PAK Link Activation

RESULT

IXM WEB is now licensed for use with WIN-PAK and configuration can begin.



5. Configuring IXM Link for WIN-PAK

Procedure

STEP 1

From the Link → click the WIN-PAK (Honeywell) icon.

Toggle the **Status** switch to enable.

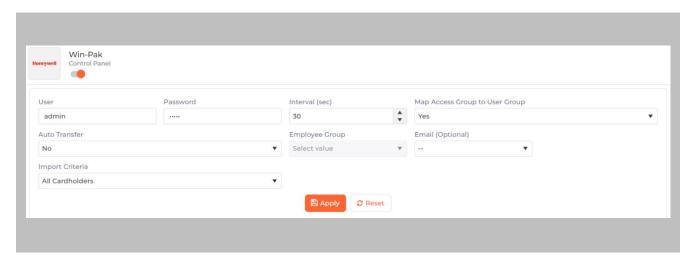


Figure 23: IXM WEB - Enable WIN-PAK Link Module

STEP 2

Enter the User and Password of the WIN-PAK user to log in.

STEP 4

Specify in seconds how often sync should take place.

STEP 5

Select Map Access Level to Employee Group.

Yes: IXM WEB Employee Group, Device Group, and Sync Group will be created automatically with one-one mapping of Employee Group and Device Group.



As per the WIN-PAK Access Level selected in the cardholder section, that cardholder will be assigned to the IXM WEB Employee Group. It will be assigned to the Invixium devices mapped with that Employee Group.

No: Cardholders won't be assigned to any IXM WEB Employee group.



Figure 24: IXM WEB - Map Access Group to User Group

STEP 6

Auto Transfer

No: Employees synchronized from WIN-PAK will not be automatically added to any of the employee groups present in IXM WEB.



Figure 25: IXM WEB - Auto Transfer No



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 WIN-PAK will be automatically added to the employee group selected on Link Configuration Page.



Figure 26: IXM WEB - Auto Transfer Yes

STEP 6

Copy the note field name created for 'Email' (refer to Configure Note Field for Email in WIN-PAK)

STEP 7

Import Criteria

All Cardholders: All the cardholders from WIN-PAK will be synced to IXM WEB.

Cardholders With Active Card: Only those cardholders with at least 1 active card in WIN-PAK will be synced to IXM WEB.

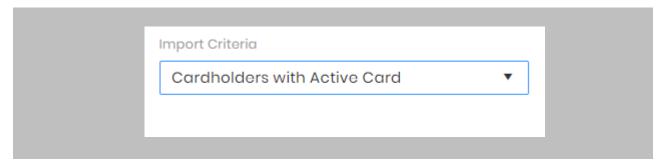


Figure 27: IXM WEB - Import Criteria



Click Apply.

After applying your changes, you should see items being updated on the screen below:

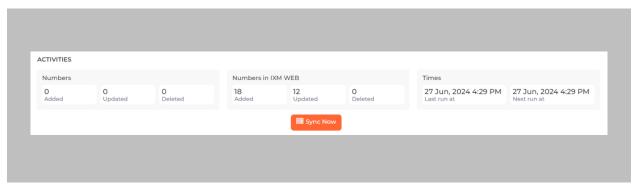


Figure 28: IXM WEB - Sync Activities

STEP 9

Clicking Sync Now immediately starts synchronizing pending data. This is useful when you do not want to wait until the next scheduled run shown by "Next Run At".

RESULT

When data is syncing at the given interval, the numbers in view will change accordingly.



6. Add and Configure Invixium Readers

Adding an Invixium Reader in IXM WEB

Procedure

STEP 1

Click the **Devices** tab.

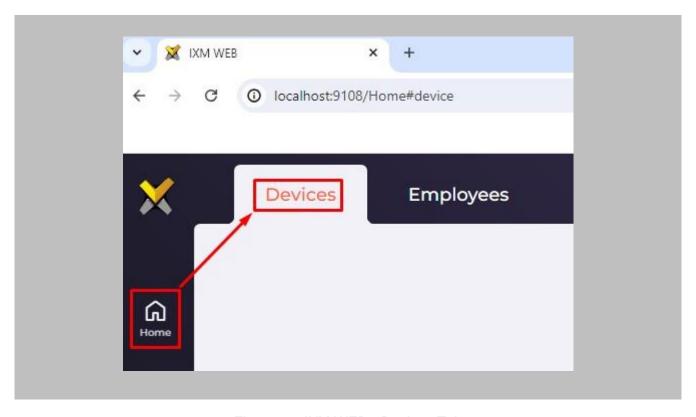


Figure 29: IXM WEB - Devices Tab



Select the **Add New Device** button on the right-hand side of the page. Then select the **Ethernet Discovery** option and add the reader's IP in the start IP section. Click on **Search** to find the device.

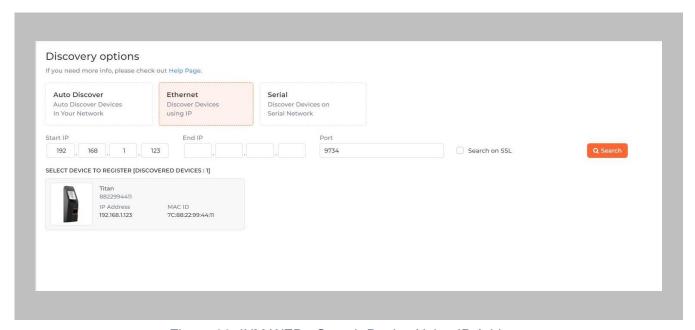


Figure 30: IXM WEB - Search Device Using IP Address



Once the device is found, click on it. Add the required fields and select Register.

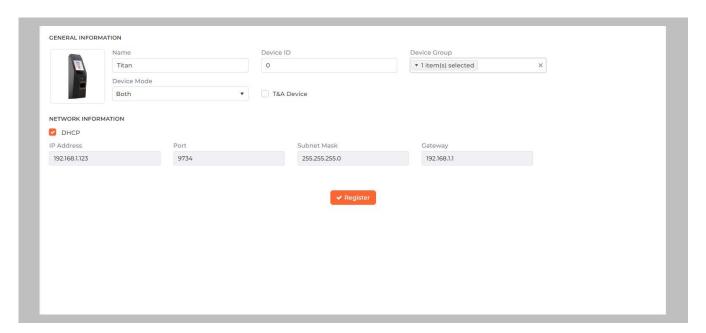


Figure 31: IXM WEB - Register Device

STEP 4

Name the device exactly as the name of the door it will be used for.

Device Mode: select accordingly.

Device Group: select the Access Group to which the reader will be assigned.



Once the device has successfully been **registered**, click **Done**.

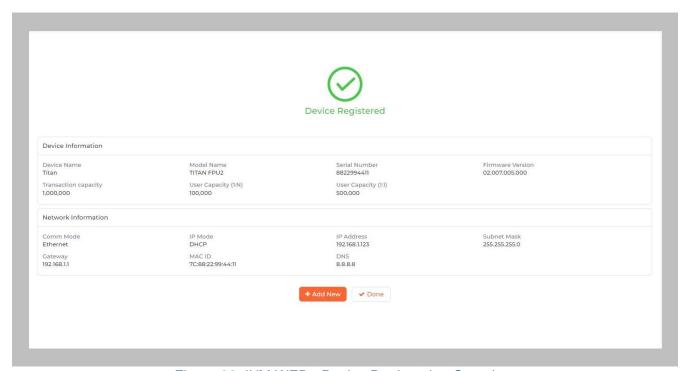


Figure 32: IXM WEB - Device Registration Complete



Go to **Dashboard** and confirm that the **Device Status** chart indicates that the reader is online (ie. hovering will tell you how many devices are online).

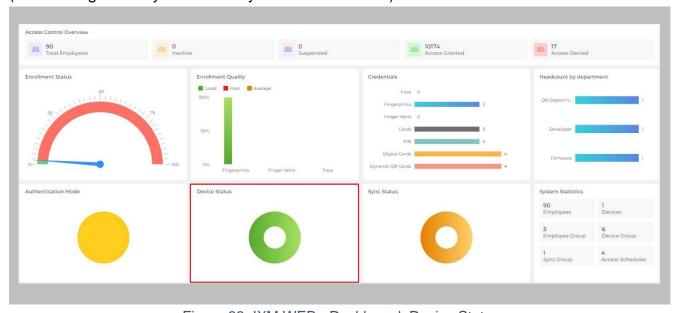


Figure 33: IXM WEB - Dashboard, Device Status



7. Adding an Invixium Device to a Device Group

Procedure

STEP 1

Any of below methods can be used to add device to device group.

METHOD 1: Go to Devices → click on Manage Device Group. Add the device by clicking vertical ellipses button of respective Device Group → click on Add Device → Search for device → click Add button.

METHOD 2: Go to Devices → click on Manage Device Group. Click on Device Group Name → click on Add Device button. Search for device → click Add button.

METHOD 3: On Device list page, click on vertical ellipses button of device → click on Add to Group → Search and select required group name → Click Add.

METHOD 4: On Device list page, select single or multiple device(s) \rightarrow click on Add to Group icon visible next to search box \rightarrow Search and select required group name \rightarrow Click Add.



Figure 34: IXM WEB - Assign Device Group



Configuring Wiegand Format to Assign Invixium Readers

ů

Note: Invixium devices support upto 512 bit long Wiegand format. Accordingly, you can create a Wiegand format as per your requirement.

STEP 1

Click **General** and Navigate to **Wiegand** → **Create**.

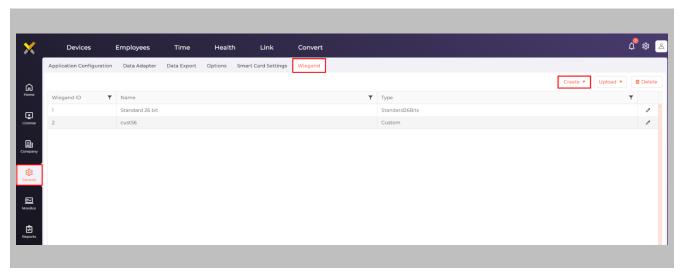


Figure 35: IXM WEB - Create Wiegand Format

STEP 2

Hover mouse over **Create** and select the **Custom** option from the dropdown menu.

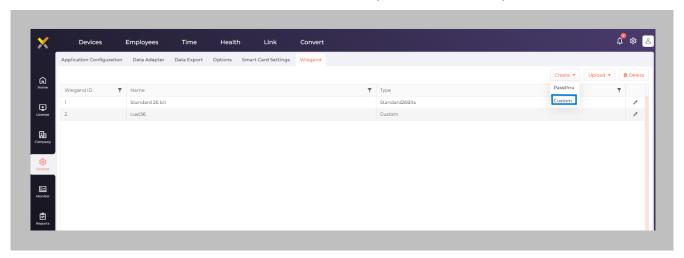




Figure 36: IXM WEB - Create Custom Wiegand Format

Enter Name of the custom Wiegand and assign Bits. Lets say we name the Wiegand as '32-BIT CSN' and define Total Bits as 32 bits where all the 32 bits are ID bits.



Figure 37: IXM WEB - Custom Wiegand Format



Click Next and Save. Wiegand Format created message will be displayed.



Figure 38: IXM WEB – Custom Wiegand Format Created

STEP 5

Click on **Upload** and select the device group (applies to all readers). Click **OK**.

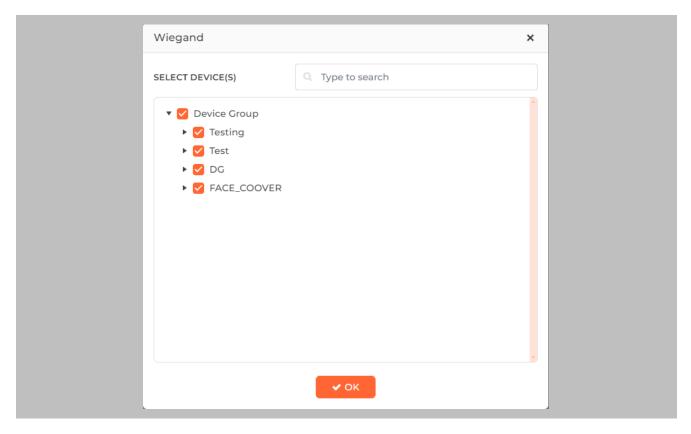


Figure 39: IXM WEB - Upload Wiegand Format





Assign Wiegand to Invixium Readers

Note: Face and finger will always give a Wiegand output based on the initial card that was synced from WIN-PAK to IXM WEB.

The created Wiegand will be used to define which output format will be sent to WIN-PAK.

STEP 1

From **Devices** tab. Select any device.

STEP 2

Navigate to the Access Control tab.

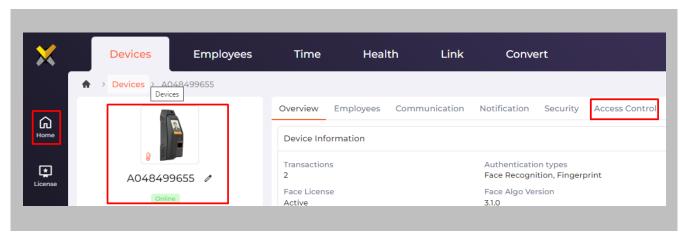


Figure 40: IXM WEB - Navigate to Access Control Tab



Scroll down and click on **Wiegand Output** and toggle the switch on the top right-hand side to enable Wiegand Output for the device.

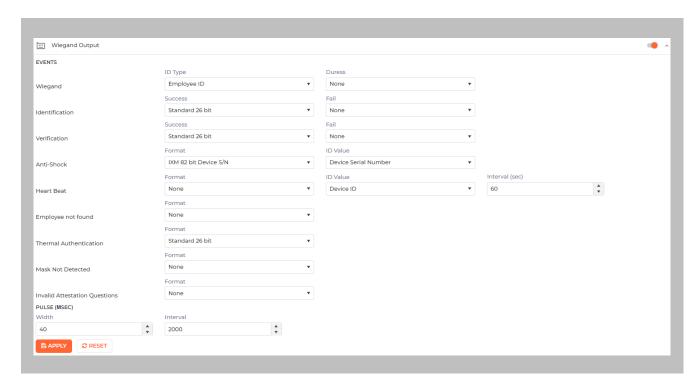


Figure 41: IXM WEB - Wiegand Output

ID types for Wiegand output are as follows:

- 1. Employee ID
- 2. Default Card
- 3. Actual Card

Set ID Type of output Wiegand to Employee ID/Default/Actual Card. By default, Employee ID is selected in Wiegand Event.

As the Employee ID field is not available in WIN-PAK, select either Default Card or Actual Card.

Empoyee ID: This is auto generated ID by IXM WEB for an imported cardholder in WIN-PAK.



Actual Card: When more than one card is assigned to the cardholder, and you want to generate Wiegand output data for the same card which is presented on the Invixium device.

Default Card: It will generate Wiegand output data for the card which is marked as the default.



Note: For fingerprint and face access, default card Wiegand output data will be generated.

STEP 4

Select desired format for Identification, Verification, Employees not found, Thermal Authentication and Mask not Detected for the selected Card.

STEP 5

Click Apply.



Figure 42: IXM WEB - Save Output Wiegand

RESULT

The Wiegand Output settings of the selected device are now updated.

Note:

- If you have more devices, follow the next steps to copy all Wiegand settings to all devices simultaneously. Note: This copies all Wiegand output settings. See Appendix C for more information.
- If the cardholder was assigned multiple cards, the first assigned card will be the 'default' selected card. The details of the card will be sent as the Wiegand bits input to WIN-PAK controller.
- To make this Wiegand output work on Honeywell, you will need to make sure the Wiegand format is available in WIN-PAK for use on the controllers talking to the Invixium reader (by Wiegand or OSDP).



Configuring Panel Feedback with WIN-PAK

Procedure

STEP 1

Connect Wiegand Data D0 of the WIN-PAK Panel with WDATA_OUT0 of the IXM device, Wiegand Data D1 of the WIN-PAK Panel with WDATA_OUT1, and Wiegand Ground of the WIN-PAK Panel with WGND of the IXM Device.

STEP 2

Connect the LED of the WIN-PAK Panel with ACP_LED1 of the IXM device.

STEP 3

On the **Devices** tab, select the required device and navigate to the **Access Control** tab. Scroll down and click on **Panel Feedback**.

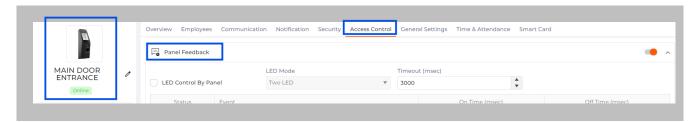


Figure 43: IXM WEB - Panel Feedback



By default, Panel Feedback is turned **OFF**. Toggle the Panel Feedback switch on the top right-hand side to the **ON** position, and then enable **LED Control** by the panel and set the LED Mode to **One LED**.

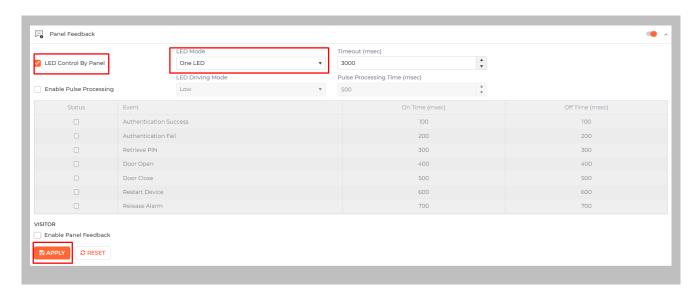


Figure 44: IXM WEB - Configuring Panel Feedback in IXM WEB

STEP 5

Click Apply.



Figure 45: IXM WEB - Save Panel Feedback



Configuring Thermal Settings

ů

Note: Confirm your device is capable of temperature screening first.

Procedure

STEP 1

Click the Devices tab → Select Device → Select Thermal Settings → Thermal Authentication Settings to view default settings.

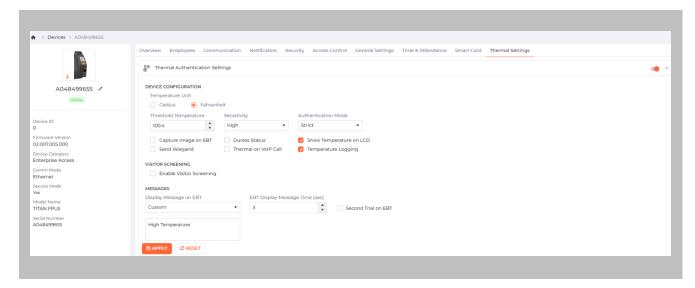


Figure 46: IXM WEB - Thermal Settings

STEP 2

The list of settings along with their functions are:

- **Temperature Unit:** IXM WEB supports Celsius and Fahrenheit temperature units. By default, the selected option will be Fahrenheit.
- Threshold Temperature: Users can set a threshold temperature. Elevated Body Temperature (EBT) workflows will trigger when any user whose temperature is above the threshold value. The default threshold temperature is 100.4 degrees Fahrenheit.
- Sensitivity: Users can set Thermal Sensitivity to low or high.



- Authentication Mode: The user will have two options for the Mode of authentication Soft / Strict, this mode of authentication is used to control the access of the user if fever is detected. The default mode of authentication is Strict.
 - o **Soft:** Access will be granted to the End-user even after the fever is detected.
 - o **Strict:** Access will be denied if the fever is detected.
- **Send Wiegand:** This setting will be visible only if the user selects the "Strict" Authentication Mode. Enabling this setting will generate Wiegand whenever "High Face Temperature" is detected in the authentication process.
- Capture Image on EBT: Enable this setting to capture the image of the user if EBT is detected. By default, this setting will remain disabled. The same image will be used for sending email notifications from IXM WEB.
- Duress Status: Enabling this setting will allow access to the user even after detecting EBT if
 the user authenticates using their pre-programmed duress finger. The default setting is
 disabled.
- **Show Temperature on LCD:** By enabling this setting, TITAN will display the screened temperature upon authentication. By default, this setting is disabled.
- **Display Message on EBT:** Users can set a message to display after detecting EBT. Users can set a message up to a maximum of 50 characters.
- EBT Display Message Time (sec): Users can configure the length of time that the EBT message stays on the screen. The default time is 3 seconds.
- **Second Trial on EBT:** By enabling this setting, users will get a notification to retry after EBT detection. If this setting is enabled, Display Message for Second Trial, Second Trial Wait Time after EBT (mins), and Display Message Time After Second Trial (sec) fields will be visible.
- **Display Message for Second Trial:** Users can set a message to display after the second trial if EBT is detected. This message can be a maximum of 50 characters.
- **Second Trial Display Message Time (sec):** Users can configure the length of time that the second trial message stays on the screen. The default time is 3 seconds.



- **Enable Visitor Screening:** Enable this setting to start screening temperatures for visitors. By default, this field remains disabled.
- **Visitor Screening Message:** Users can set a message that will be displayed when a visitor is showing their face. Maximum 50 characters allowed.
- Visitor Screening Message on EBT: Users can set a message that will be displayed when the visitor has an EBT. Maximum 50 characters allowed.
- Visitor Message Display Time (sec): Users can configure the length of time that the visitor screening message stays on the screen. The default time is 3 seconds.
- Thermal on VoIP Call: Enable this setting to start screening temperatures for a user when a VoIP call is going on. By default, this field remains disabled.
- **Temperature Logging:** This setting keeps logging detected temperature in the Transaction Log. By default, this field remains enabled. Users can disable this feature using IXM WEB only. Enable/Disable this setting is not available in LCD.

Once all the settings have been configured, click Apply, then click OK.

Thermal Authentication settings saved X

Figure 47: IXM WEB - Save Thermal Settings



Thermal Calibration

STEP 1

Click the **Devices** tab → Select **Device** → Select **Thermal Settings** → **Thermal Calibration** to view default settings.

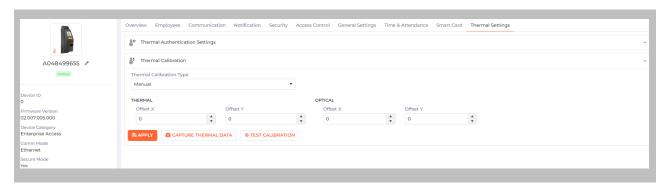


Figure 48: IXM WEB - Thermal Calibration Settings

STEP 2

The settings along with their functions are:

- Thermal Calibration Type:
 - Manual
 - o Face
 - o Black Body

Invixium supports only Manual Thermal Calibration and does not recommend the user to select any other option.

- Offset X (Thermal Section): Users can set the value for the offset X coordinate of the TIR camera.
- Offset Y (Thermal Section): Users can set the value for the offset Y coordinate of the TIR camera.
- Offset X (Optical Section): Users can set the value for the offset X coordinate of the TITAN camera.



• Offset Y (Optical Section): Users can set the value for the offset Y coordinate of the TITAN camera.

STEP 3

Once all the settings have been configured, click Apply, then click OK.

Thermal Calibration settings saved X

Figure 49: IXM WEB - Save Thermal Calibration Settings

To provide the Thermal Data to the Invixium Technical Services team using IXM WEB, the user needs to click **Capture Thermal Data**. It will open the popup window and ask the user to show their face 3 times.

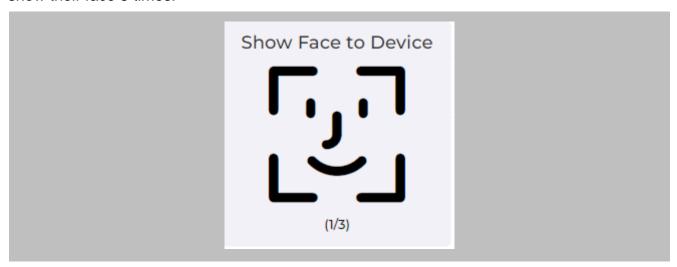


Figure 50: IXM WEB - Capture Thermal Data



Once the face is captured 3 times, it will ask the user to save the ".zip" file.

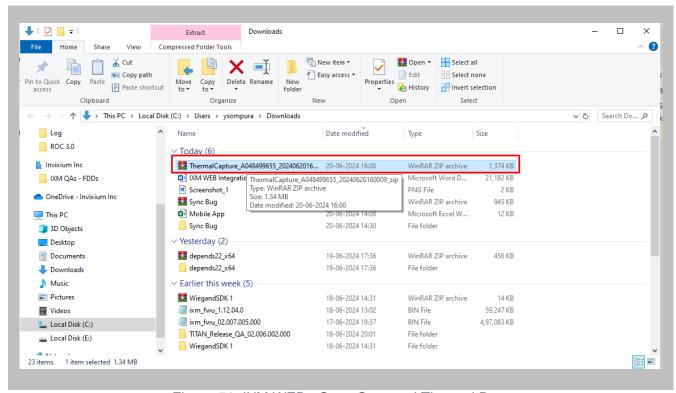


Figure 51: IXM WEB - Save Captured Thermal Data

STEP 5

Click Save to store the zip file, then send this file to support@invixium.com. Invixium's Technical Services team will process this file and respond to the user with calibrated values for "X" & "Y" coordinates for the TIR camera and TITAN camera.

Note: TITAN and the Enhancement kit are factory calibrated when purchased as a bundle. If thermal offset and optical offset values are 0, they capture thermal data.

Test Calibration Options





To test Thermal Calibration, click **Test Calibration**.

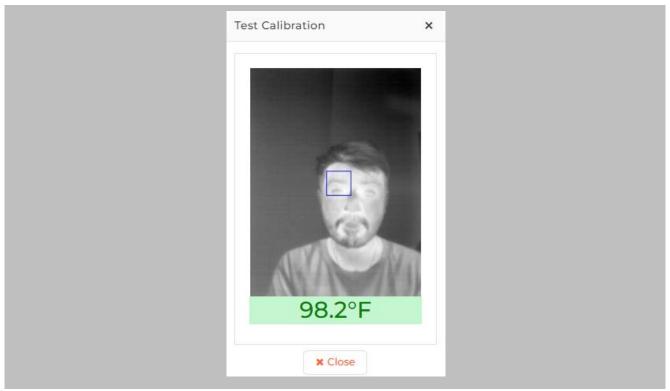


Figure 52: IXM WEB - Test Thermal Calibration

 $\hat{\mathbb{I}}$ Note: Square box position should be in the center and cover the tear duct area (Eye Inner Canthus).



Change Temperature Unit Settings

STEP 1

To change the Temperature Unit from Celsius to Fahrenheit and vice-versa, click General → Options → Temperature Unit.

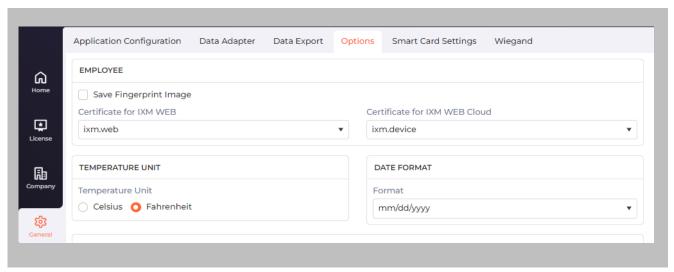


Figure 53: IXM WEB - Option to Change Temperature Unit



Select required temperature unit. Click Save.

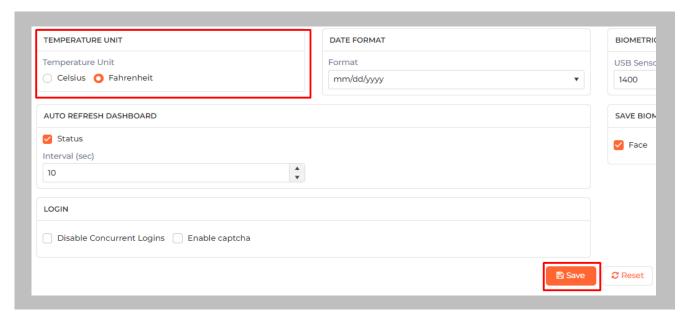


Figure 54: IXM WEB - Save Temperature Unit Setting



Configuring Mask Authentication Settings

STEP 1

Click the Devices tab → Select Device → Select General Settings → Mask Authentication Settings to view default settings.

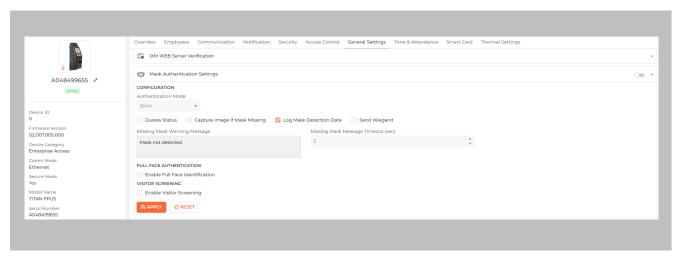


Figure 55: IXM WEB - Mask Authentication Settings

STEP 2

The list of settings is:

- **Authentication Mode:** There are two options for the mode of authentication used to control the access workflow if a mask is not detected. The default mode of authentication is strict.
 - Soft: Access will be granted to the user even if a mask is not detected.
 - Strict: Access will be denied if a mask is not detected.
- Duress Status: Enabling this setting would allow access to the user if a mask was not detected if the user authenticates using their pre-programmed duress finger. The default setting is disabled.



- Capture Image if Mask Missing: Enable this setting to capture an image of the user if a mask
 is not detected. By default, this setting is disabled. The same image will be used for sending
 email notifications from IXM WEB.
- Log Mask Detection Data: This setting tracks mask detection in the transaction log. By
 default, this setting is enabled. You can disable this feature using IXM WEB only, not on the
 device's LCD.
- **Send Wiegand:** This setting will be visible only in "Strict" authentication mode. Enabling this setting will generate Wiegand whenever a mask is not detected in the authentication process.
- **Missing Mask Warning Message:** Set a message to display after a mask is not detected. The message can be up to 50 characters.
- Missing Mask Warning Message Timeout (sec): Configure the length of time that the mask is not detected message stays on the screen. The default time is 3 seconds.
- Enable Full Face Identification: Invixium Periocular algorithms can achieve accurate identification using only the eye and eyebrow regions of the face. Full face identification is used to get more accuracy in authentication and capture a user's face without a mask in the image log. By default, this setting is disabled.
- Remove Mask Display Message: Set a message to display after a mask is detected when Full Face Identification is enabled. Messages can be up to 50 characters.
- Remove Mask Display Message Time (sec): Configure the length of time that the mask is detected message stays on the screen. The default time is 3 seconds.
- Enable Visitor Screening: Enable this setting to start screening visitors for masks. By default, this field is disabled.
- **Visitor Screening Message:** Set a message that will be displayed when a visitor is showing their face. Messages can be up to 50 characters.
- **Visitor Mask Missing Warning Message:** Set a message that will be displayed when a visitor is screened without a mask. Messages can be up to 50 characters.



• Visitor Message Display Time(sec): Configure the length of time that the visitor screening message stays on the screen. The default time is 3 seconds.

STEP 3

Once all the settings have been configured, click Apply, then click OK.

Mask Authentication settings saved X

Figure 56: IXM WEB - Save Mask Settings



8. Enrollment Best Practices

Fingerprint Enrollment Best Practices

- Invixium recommends using the index, middle, and ring fingers for enrollment.
- Make sure your finger is flat and centered on the sensor scanning area.
- The finger should not be at an angle and should be straight when placed on the sensor.
- Ensure that the finger is not too dry or too wet. Moisten your finger during enrollment if required.

Avoid Poor Fingerprint Conditions

- Wet Finger: Wipe excessive moisture from the finger before placement.
- Dry Finger: Use moisturizer or blow warm breath over the finger before placement.
- Stained Finger: Wipe stains from finger before placement.

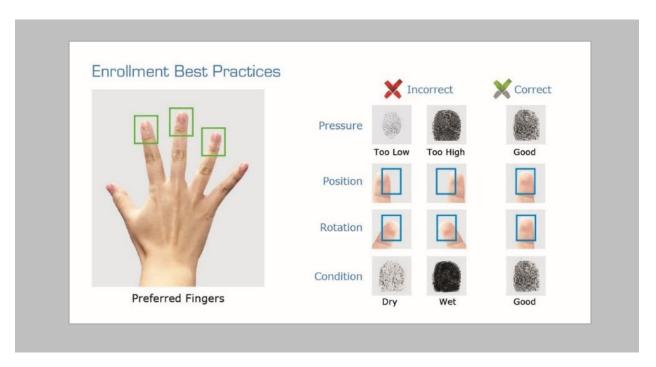


Figure 57: Fingerprint Enrollment Best Practices



Fingerprint Image Samples

Fingerprint Sample	Result	Recommendation
	Good Fingerprint	Always try and get a good fingerprint like this for a good enrollment score
	Fingerprint with cuts	Invixium recommends using Card + Biometrics or Card + PIN
	Dry finger	Moisten finger and re- enroll for better results
	Wet/Sweaty finger	Rub finger on clean cotton cloth and re- enroll for better results

Figure 58: Fingerprint Images Samples



Fingerprint Imaging Do's and Don'ts

Do's:

- Capture the index finger first for the best quality image. If it becomes necessary to capture
 alternate fingers, use the middle or ring fingers next. Avoid pinkies and thumbs because they
 generally do not provide a high-quality image.
- Ensure that the finger is flat and centered on the fingerprint scanner area.
- Re-enroll a light fingerprint. If the finger is too dry, moistening the finger will improve the image.
- Re-enroll a finger that has rolled left or right and provided a partial finger capture.

Remember to:

- Identify your fingerprint pattern.
- Locate the core.
- Position the core in the center of the fingerprint scanner.
- Capture an acceptable quality image.

Don'ts:

- Don't accept a bad image that can be improved. This is especially critical during the enrollment process.
- Don't assume your fingerprint is placed correctly.



Finger Vein Enrollment Best Practices

- Invixium recommends using the index and middle fingers for enrollment.
- Make sure your fingertip is resting on the finger guide at the back of the sensor cavity.
- The finger should be completely straight for the best finger vein scan.

Ensure that the finger is not turned or rotated in any direction.

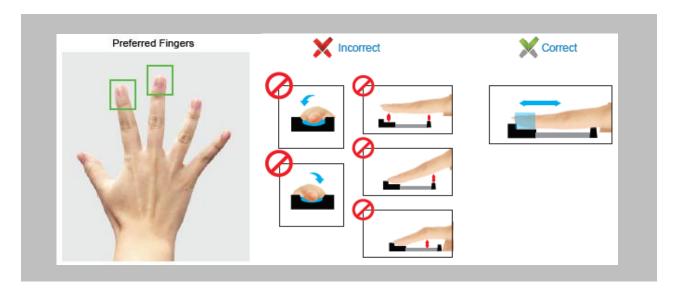


Figure 59: Finger Vein Enrollment Best Practices



Face Enrollment Best Practices

- Invixium recommends standing at least 2 to 3 feet from the device when enrolling a face.
- Make sure your entire face is within the frame corners, which will turn green upon correct positioning.
- Look straight at the camera when enrolling your face. Avoid looking in other directions or turning your head during enrollment.

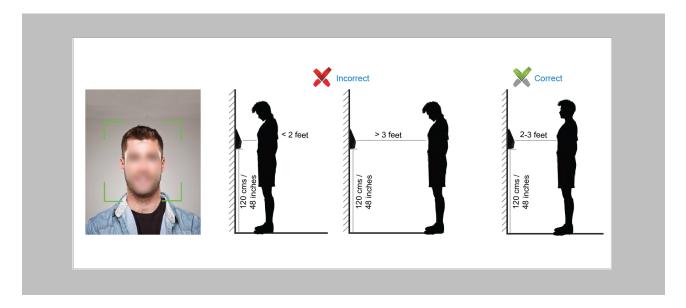


Figure 60: Face Enrollment Best Practices



9. Configure Note Field for Email in WIN-PAK

The following settings are required in WIN-PAK to synchronize the email address of the cardholder from WIN-PAK to IXM WEB.

Procedure

STEP 1

Login to WIN-PAK User Interface → Go to Configuration → Card Holder → Note Field Template.

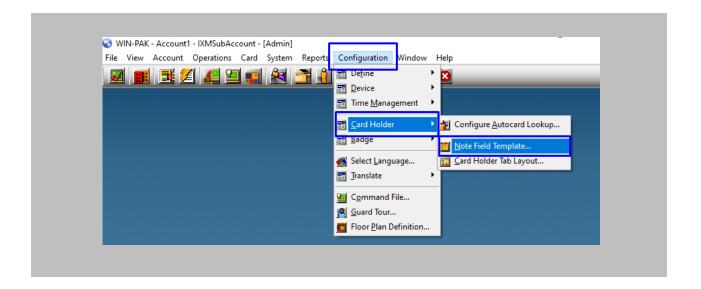


Figure 61: WIN-PAK Note Field Template



On the Note Field Template Window click on Add.

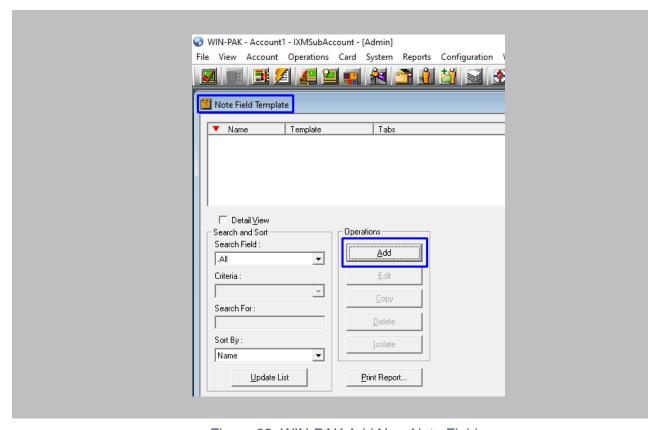


Figure 62: WIN-PAK Add New Note Field



Enter the Name of the note field → Click on the OK button

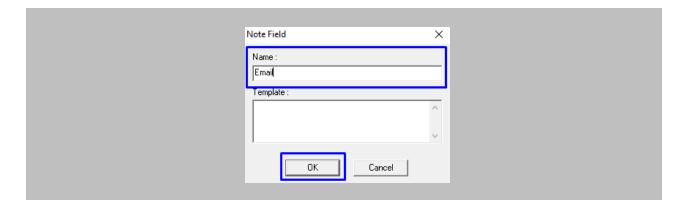


Figure 63: WIN-PAK Create Note Field

STEP 4

Go to Configuration → Card Holder → Card Holder Tab Layout.

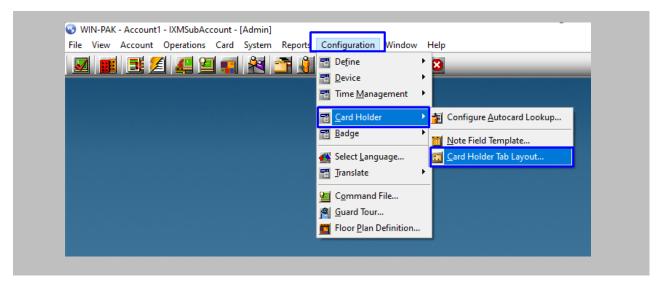


Figure 64: WIN-PAK Card Holder Tab Layout



On the Card Holder Tab Layout Window, click on Add.

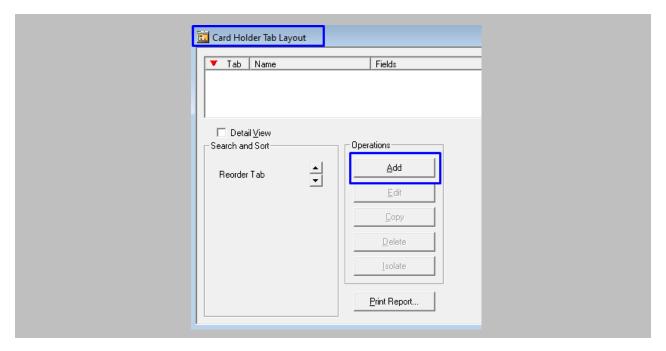


Figure 65: WIN-PAK Add New Card Holder Tab Layout



Enter the Tab Name → Select the note field from the list of Available Note Fields → Click on Add button.

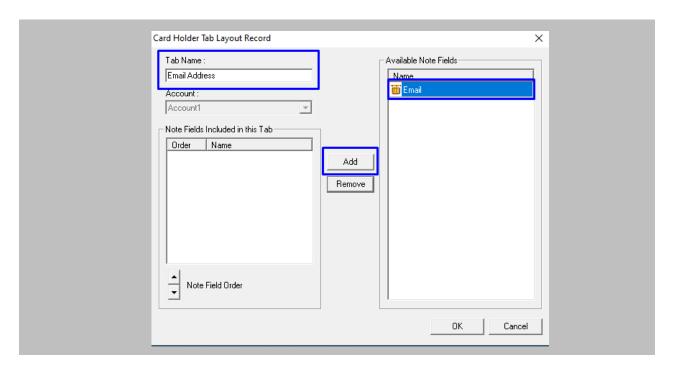


Figure 66: WIN-PAK Add Note Field to Card Holder Tab



Click on OK.

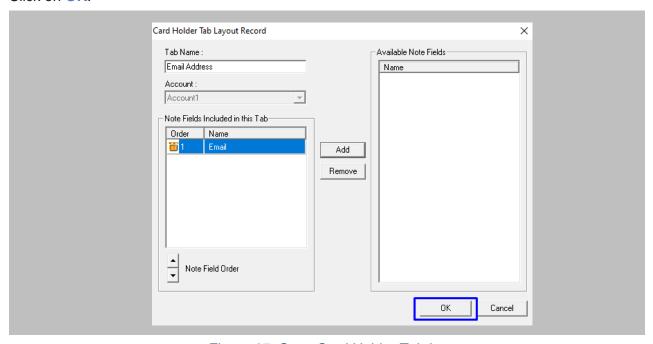


Figure 67: Save Card Holder Tab Layout

The custom Note field will be visible on the Card Holder window as below.

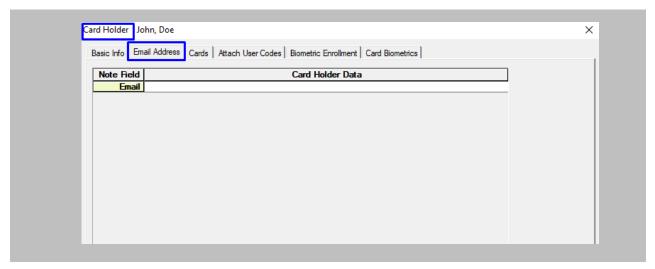


Figure 68: Add Card Holder Window



10. Prerequisites for Integration when IXM WEB and Honeywell WIN-PAK are Installed on Different Servers

Configuration Of Group Policy

Procedure

STEP 1

Open Run on the machine where WIN-PAK is installed → Enter 'gpedit.msc'.

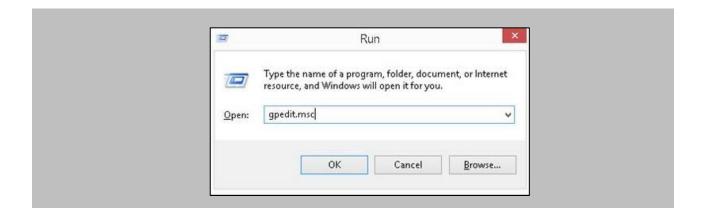


Figure 69: WIN-PAK Open Group Policy Editor



Navigate to the Local Computer policy → Computer Configuration → Windows Settings → Security Settings → Local Polices → Security Options.

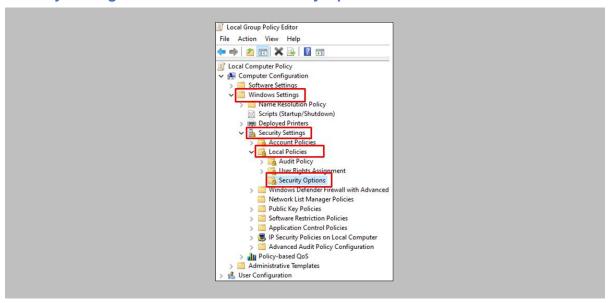


Figure 70: WIN-PAK Security Options

STEP 3

From the list of policies, select DCOM Machine Access Restriction in Security Description Definition Language (SDDL) syntax → Right click and click on Properties.

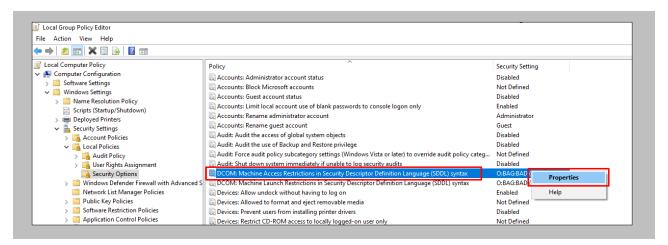


Figure 71: WIN-PAK DCOM SDDL Syntax





Click on Edit Securities.

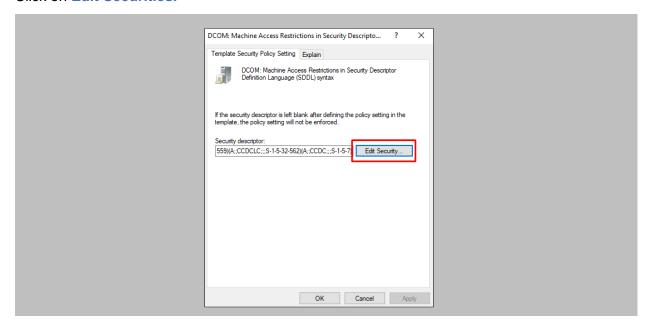


Figure 72: WIN-PAK DCOM Access Restrictions - Edit Securities



Give 'Local Access' and 'Remote Access' permissions for the below groups or usernames.

- Distributed COM Users
- All APPLICATION PACKAGES
- Performance Log User
- Everyone

Click on OK once permissions are assigned.

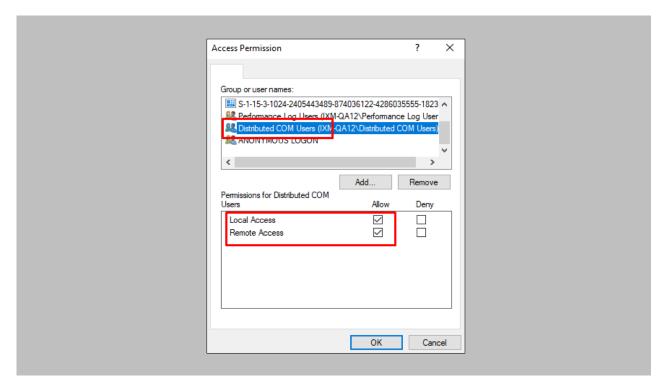


Figure 73: WIN-PAK Access Permissions for DCOM Users



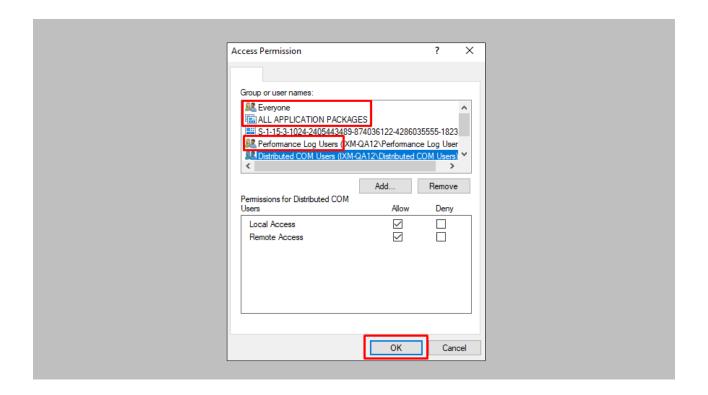


Figure 74: WIN-PAK Access Permissions for Users and Groups



From the list of policies, select DCOM Machine Launch Restriction in Security Description Definition Language (SDDL) syntax → Right click and click on Properties → Click on Edit Securities.

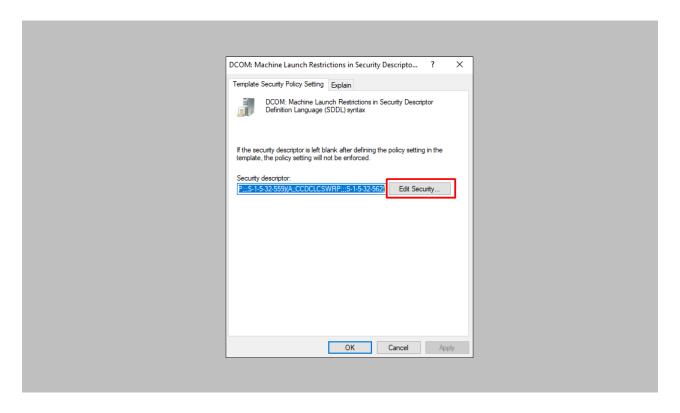


Figure 75: WIN-PAK DCOM Launch Restrictions - Edit Securities



Give 'Local Launch', 'Remote Launch', 'Local Activation', and 'Remote Activation' permissions for the below groups or usernames:

- Distributed COM Users
- All APPLICATION PACKAGES
- Performance Log User
- Everyone

Click on OK once permissions are assigned.

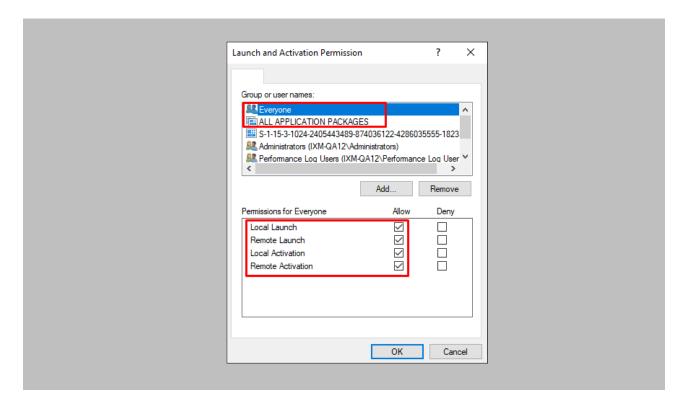


Figure 76: WIN-PAK Launch Permissions for Users and Groups



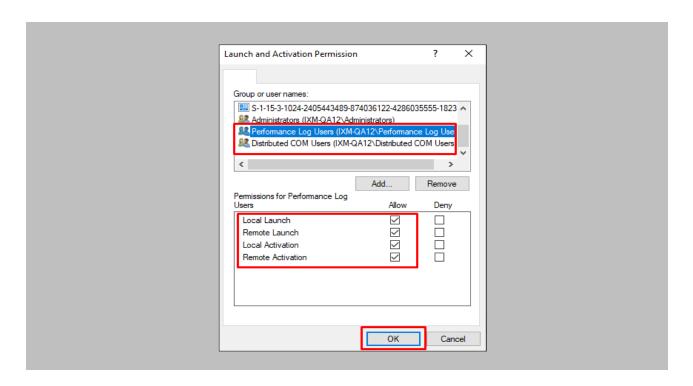


Figure 77: WIN-PAK Launch Permissions for Users

Open Command Prompt → Write gpupdate /force → Click on Enter.

These settings will connect the WIN-PAK API Client from the Client machine where the WIN-PAK API proxy is installed.

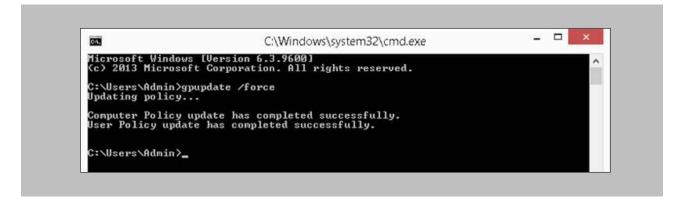


Figure 78: WIN-PAK Group Policy Update





Exporting Proxy from Server Machine

Procedure

STEP 1

Open the Control Panel → Navigate to Administrative Tools → Component Services.

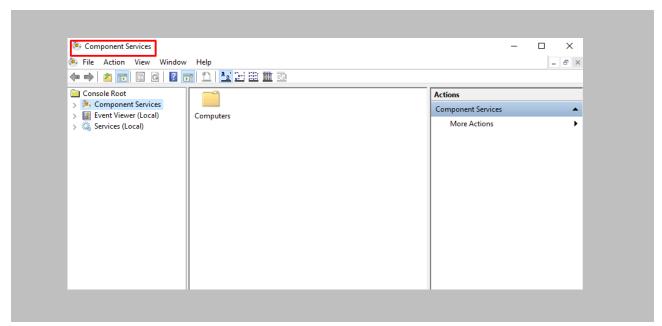


Figure 79: WIN-PAK Component Services



Go to Component Services → Computers → My Computer → COM+ Applications.

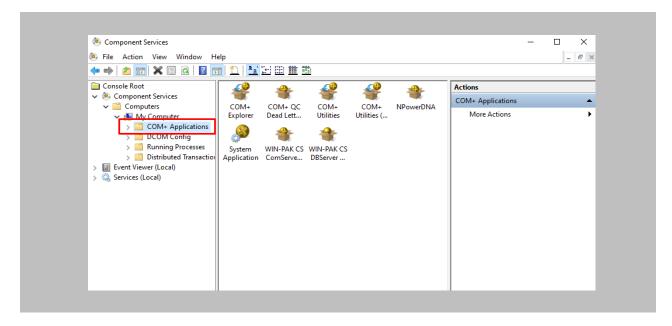


Figure 80: WIN-PAK COM+ Applications



Search for WIN-PAK CS ComServer Helper → Right click and click on Export.

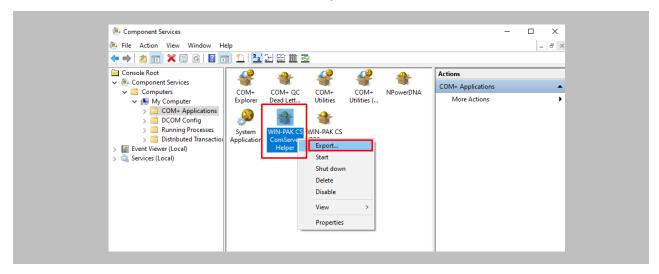


Figure 81: WIN-PAK CS ComServer Helper

STEP 4

After Cclicking Export, Welcome to the COM+ Application Export Wizard will open → Click on Next.

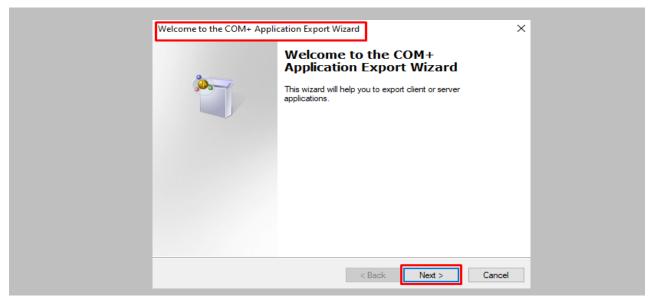


Figure 82: WIN-PAK COM+ Application Export Wizard





Click on Browse and provide a path to save the exported Application Proxy setup.

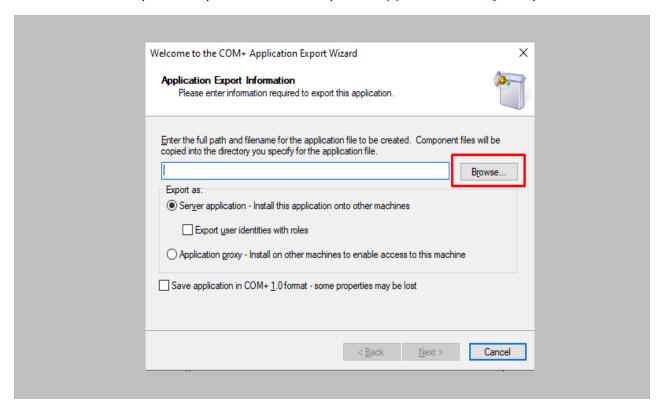


Figure 83: WIN-PAK Browse



Enter an appropriate name and click on Save → Select Application proxy - Install on other machines to enable access to this machine → Click on Next.

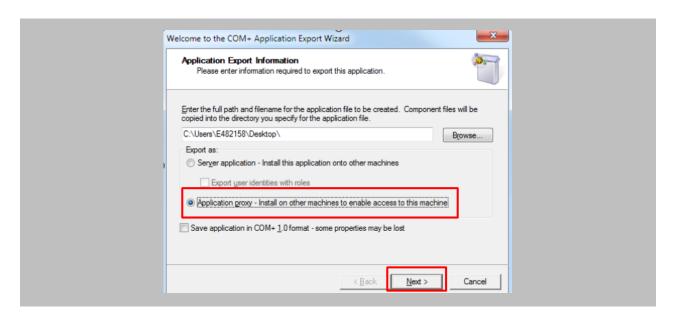


Figure 84: WIN-PAK Export Application Proxy

STEP 7

Click on Finish.



Figure 85: WIN-PAK Finish Exporting





Setup of WIN-PAK Communication Server API is created successfully. This setup consists of the .MSI file and the .CAB file.



Figure 86: WIN-PAK Communication Server API Setup

STEP 9

Again go to the Component Service window and search for WIN-PAK CS DBServer Helper → Right click and click on Export.

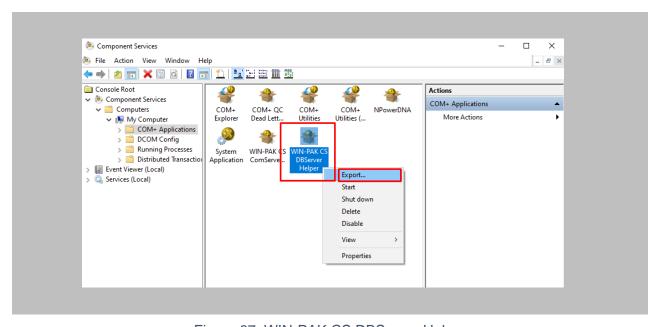


Figure 87: WIN-PAK CS DBServer Helper

STEP 10

Repeat all the steps from Step 4 to Step 8 for exporting the WIN-PAK CS DBServer Helper setup.





Installing Proxy on Client Machine

Procedure

STEP 1

Copy the previously exported proxies from the server machine to the client machine \rightarrow Install both the MSI files.

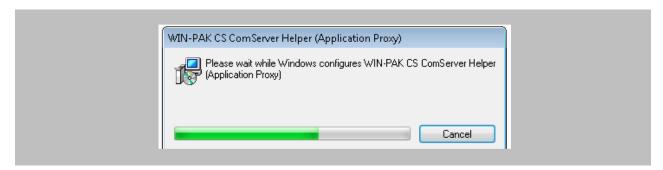


Figure 88: Installation of WIN-PAK CS CommServer Helper

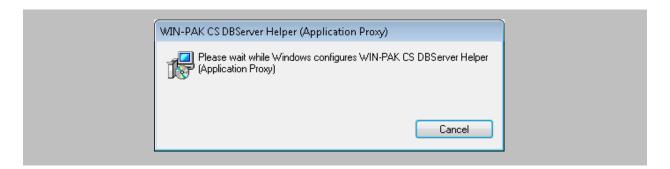


Figure 89: Installation of WIN-PAK CS DBServer Helper



Once installation is completed, open Control Panel → Navigate to Administrative Tools → Component Services.

WIN-PAK CS CommServer and WIN-PAK CS DBServer COM+ applications are installed with different icons.

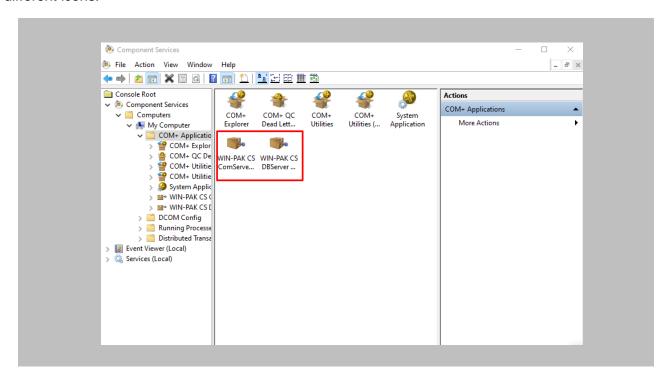


Figure 90: WIN-PAK Client COM+ Applications



11. Appendix

Pushing Configuration to Multiple Invixium Readers

Procedure

STEP 1

To push these configurations to other Invixium readers, while the configured Invixium device is selected, click the **Broadcast** option from vertical ellipses button.



Figure 91: IXM WEB - Broadcast Option

STEP 2

Scroll down to the Access Control section → check Wiegand Output option → Click on Broadcast.

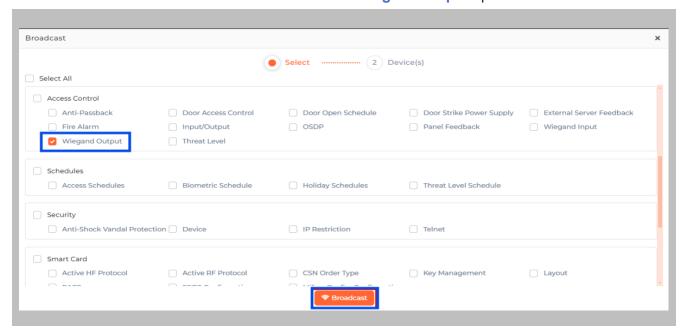




Figure 92: IXM WEB - Broadcast Wiegand Output Settings

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.

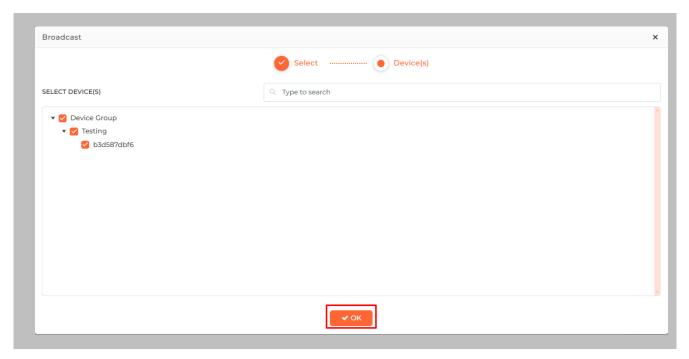


Figure 93: IXM WEB - Broadcast to Devices



Configuring for OSDP Connection

STEP 1

From the **Devices** tab. Select the required **Device** and navigate to **Access Control**. Click **OSDP**.

By default, the OSDP configuration is turned **OFF**. Enable the OSDP by toggling the switch to **ON**.

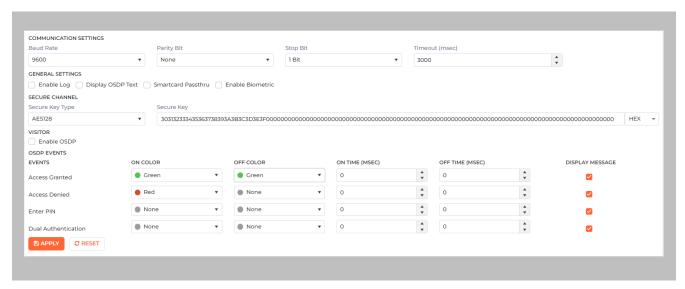


Figure 94: IXM WEB - OSDP Settings



Provide values for the configuration settings below:

Baud Rate	The baud rate of the serial communication. The value must be the same as the Access Control Panel's value.
Parity Bit	The parity bit of the serial communication. The value must be the same as the Access Control Panel's value.
Stop Bit	The stop bit of the serial communication. The value must be the same as the Access Control Panel's value.
Enable Log	This logs OSDP events for support and debugging purposes. Invixium recommends disabling this feature unless needed.
SmartCard Passthru	When presenting a smart card, the device passes the smart card CSN (Card Serial Number) to the Access Control Panel without taking any other action.
Enable Biometric	Enables biometric template verification.
Secure Channel	The secure key is provided by your Access Control Panel most of the time. However, provisions for manual entry can be added as TEXT or HEX.
Event	The OSDP static events for panel feedback and capture pin are: Access Granted Access Denied Enter PIN Dual Authentication – It is an access mode that requires valid access by two authorized cardholders to enter an access zone within a specified time period. This feature is available only if the Multi-User Authentication feature is enabled and configured. To configure the Multi-User Authentication feature, from Home, click the Devices tab. Select the required Device and navigate to General Settings. Click on the Multi-User Authentication section. Upon enabling this feature, the following actions will be performed: • The Device will request the credentials of the second user after the first user is authenticated successfully.



	 Card numbers for both, the first and the second user will be transferred to the Access Control Panel. Two events, one for the first user and the other for the second user will be logged into the Access Control Panel.
On Color/Off Color	The LED color configuration is based on panel events. The value must be the same as the Access Control Panel's value. Options are: Red Green Yellow Blue
Enable VISITOR OSDP	The option sends card details to ACP even if then card is not assigned to any employee on device. Based on response from ACP; device will display "Access Granted" or "Access Denied"

Table 5: IXM WEB - OSDP Configuration Options

Note: Mismatches between the unit and Access Control Panel LED configuration would cause unrecognized events.

Display OSDP Text	Enables to display OSDP Text.
Display Message	Notification on the device's screen. If enabled: Displays both the unit hardcoded notification and the Access Control Panel notification. IXM notification - Access Granted or Access Denied. Access Control Panel notification – Valid or Invalid. If disable: Displays only the Access Control Panel notification.

Table 6: IXM WEB - OSDP Text Options



Click **Apply** to save the settings.

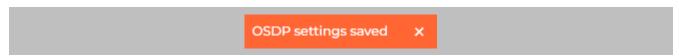


Figure 95: IXM WEB - Save OSDP Settings

STEP 4

Open the edit option on the reader and note the **Device ID**. This will be the address used in the configuration of the reader in the WIN-PAK.

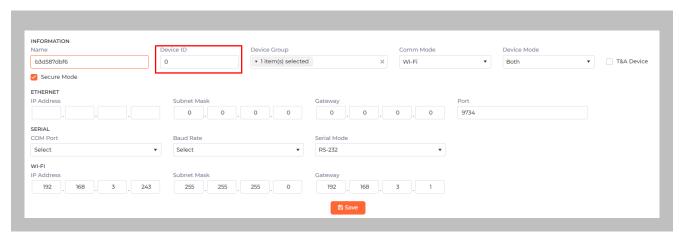


Figure 96: IXM WEB - Edit Device Options

STEP 5

Wiegand Input and output also need to be **configured** to allow OSDP communication to work. Create the same settings for Wiegand connections as you did previously.



Disable Panel feedback for any OSDP-connected reader to stop multiple access granted messages from being sent to WIN-PAK.



Figure 97: IXM WEB - Disable Panel Feedback



Wiring and Termination

Procedure

Earth Ground

For protection against ESD, Invixium recommends the use of a ground connection between each Invixium device to high-quality earth ground on site.

STEP 1

Connect the green and yellow earth wire from the wired back cover.

STEP 2

Connect the **open end** of the earth ground wire provided in the install kit box to the **building earth** ground.

STEP 3

Screw the lug end of the earth ground.

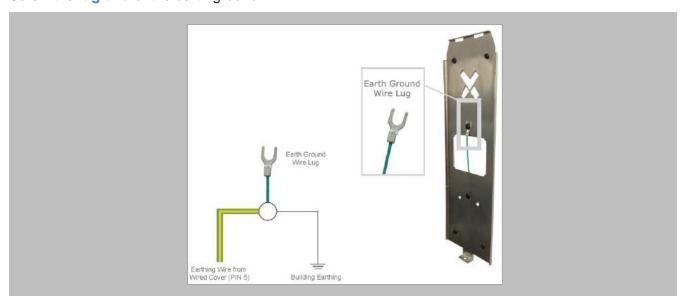


Figure 98: Earth Ground Wiring



Wiring

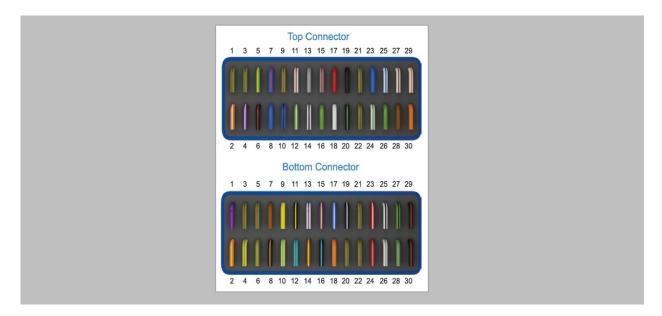


Figure 99: IXM TITAN – Top & Bottom Connector Wiring



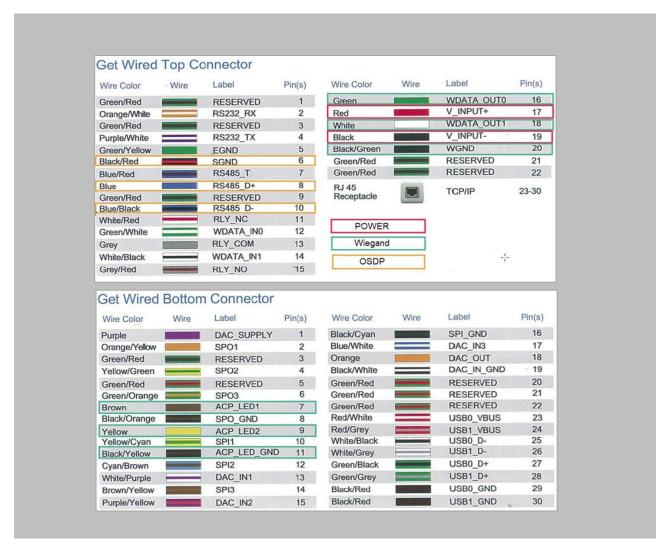


Figure 100: Power, Wiegand & OSDP Wires



All Invixium devices support Wiegand and OSDP.

Invixium devices can be integrated with Honeywell WIN-PAK panels on:

- 1. Wiegand (one-way communication)
- 2. Wiegand with panel feedback (two-way communication)
- 3. OSDP (two-way communication)

Wiegand Connection

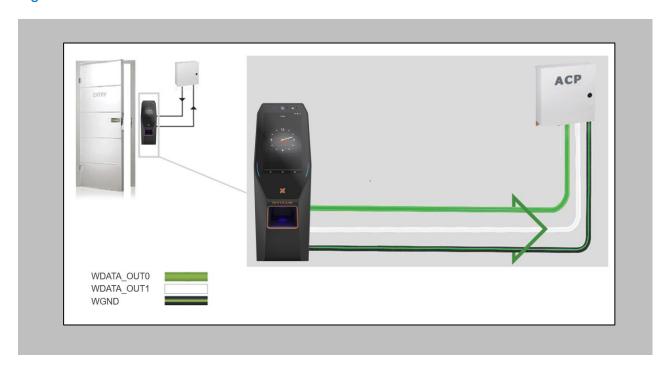


Figure 101: IXM TITAN - Wiegand

Please refer to the INGUIDE document provided for each product on Invixium.com under the **Download** section of the **Products** menu.



Wiegand Connection with Panel Feedback

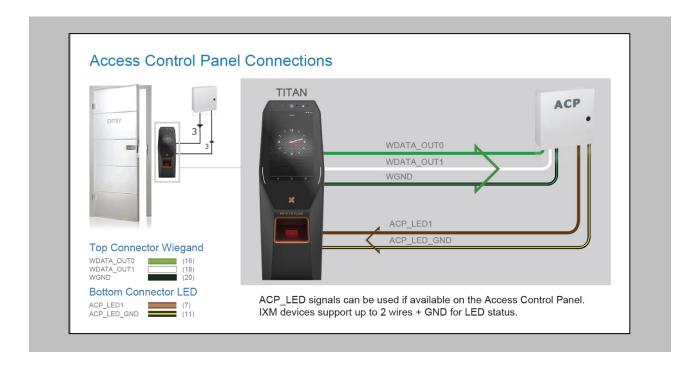


Figure 102: IXM TITAN – Panel Feedback

Please refer to the INGUIDE document provided for each product on Invixium.com under the **Download** section of the **Products** menu.



OSDP Connections

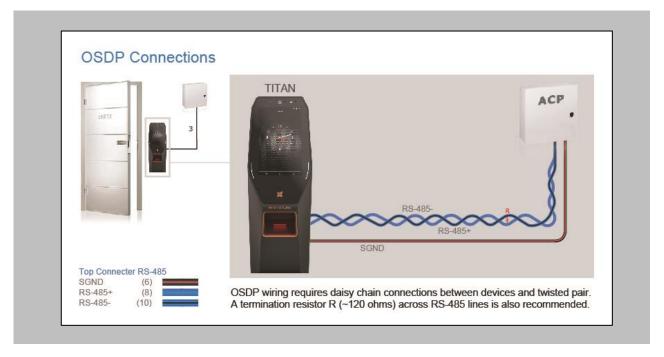


Figure 103: IXM TITAN – OSDP Connections

Please refer to the INGUIDE document provided for each product on Invixium.com under the **Download** section of the **Products** menu.



12. Troubleshooting

Reader Offline from the IXM WEB Dashboard

Note: Confirm communication between the IXM WEB server and the Invixium reader.

Procedure

STEP 1

From **Devices** tab select any device.

STEP 2

Navigate to the Communication tab. Scroll down and click on IXM WEB Server.

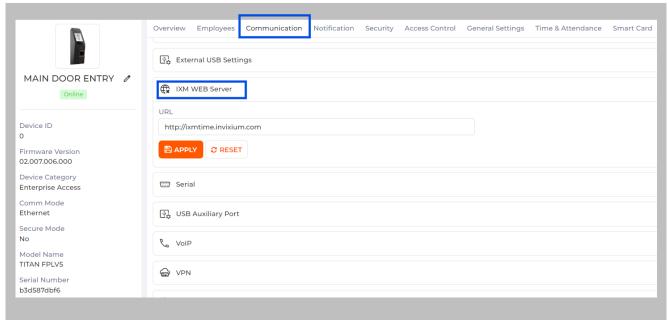


Figure 104: IXM WEB - Server URL Setting

STEP 3

Enter the IP address of the Invixium server followed by port 9108.

Default Format: http://IP IXMServer:9108

Ensure the correct IP address of the server is listed here. If not, correct and apply.





In case of IP Address or URL of IXM WEB Server is changed; perform below step to update all registered device(s).

Navigate to General → Application Configuration and make sure that the URL is correct.

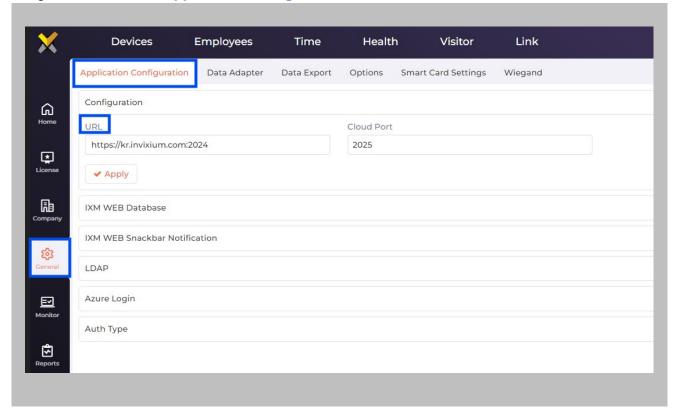


Figure 105: IXM WEB - Server URL Setting from General Settings



Logs in IXM WEB Application

Device Logs: Device Logs are used for debugging device-related issues.

From the **Devices** Tab on the top \rightarrow Select the required **Device** \rightarrow Navigate to the **General Settings** tab for the device \rightarrow Click on **Device Log** \rightarrow Enable Capture Device Logs.



Figure 106: IXM WEB - Enable Device Logs

Click **Download** to initialize the process to download the device log file.

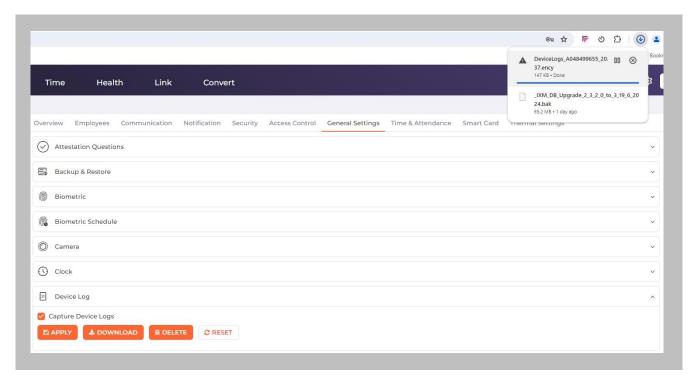


Figure 107: Save Device Log File

Select Save File and Click OK to store the device log file on your machine.





Transaction Logs (TLogs): Events or activities taking place on the IXM device.

- Transactions Logs can be viewed and exported from IXM WEB.
- Go to Logs in the Left Navigation pane in IXM WEB and click on Transaction Logs. A filter option is available in Transaction Logs columns.

Application Logs: Applications logs are available for any event, error, or information generated in IXM WEB.

- Applications Logs can be viewed and exported from IXM WEB.
- Go to Logs in the Left Navigation pane in IXM WEB and click on Application Logs. The filter option is available in the Application Logs columns.

Logs folder location on IXM WEB Server:

IXM WEB Logs	C:\Program Files (x86)\Invixium\IXM WEB\Log
IXM WEB Service Logs	C:\Program Files (x86)\Invixium\IXMWebService
IXM API Logs	C:\Program Files (x86)\Invixium\IXMAPI\Log

Table 7: Logs Folder Location



16. Support

For more information relating to this document, please contact support@invixium.com.

17. Disclaimer and Restrictions

This document and the information described throughout are provided in their present condition and are delivered without written, expressed, or implied commitments by Invixium. and are subject to change without notice. The information and technical data herein are strictly prohibited for the intention of reverse engineering and shall not be disclosed to parties for procurement or manufacturing.

This document may contain unintentional typos or inaccuracies.

TRADEMARKS

The trademarks specified throughout the document are registered trademarks of Invixium. All third-party trademarks referenced herein are recognized to be trademarks of their respective holders or manufacturers.

Copyright © 2024 Invixium. All rights reserved.