



IXM WEB Integration with WIN-PAK by Honeywell

Installation Instructions

V3.0



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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	All models	All models	All models	All models	All models

Software Requirements

Application	Version
Honeywell WIN-PAK	V4.9+
Invixium IXM WEB	2.3.0.0+
Operating Systems	Windows 10 (Build 1709+) Professional Version Windows Server 2016 Standard Windows Server 2019 Supported but not recommended: (legacy) <i>Windows 8.1</i> <i>Windows Server 2012 R2</i> <i>Windows Server 2012</i>
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 7.5 or higher
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 2.3.0.0	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

5. Prerequisites for Installing Invixium IXM WEB Software

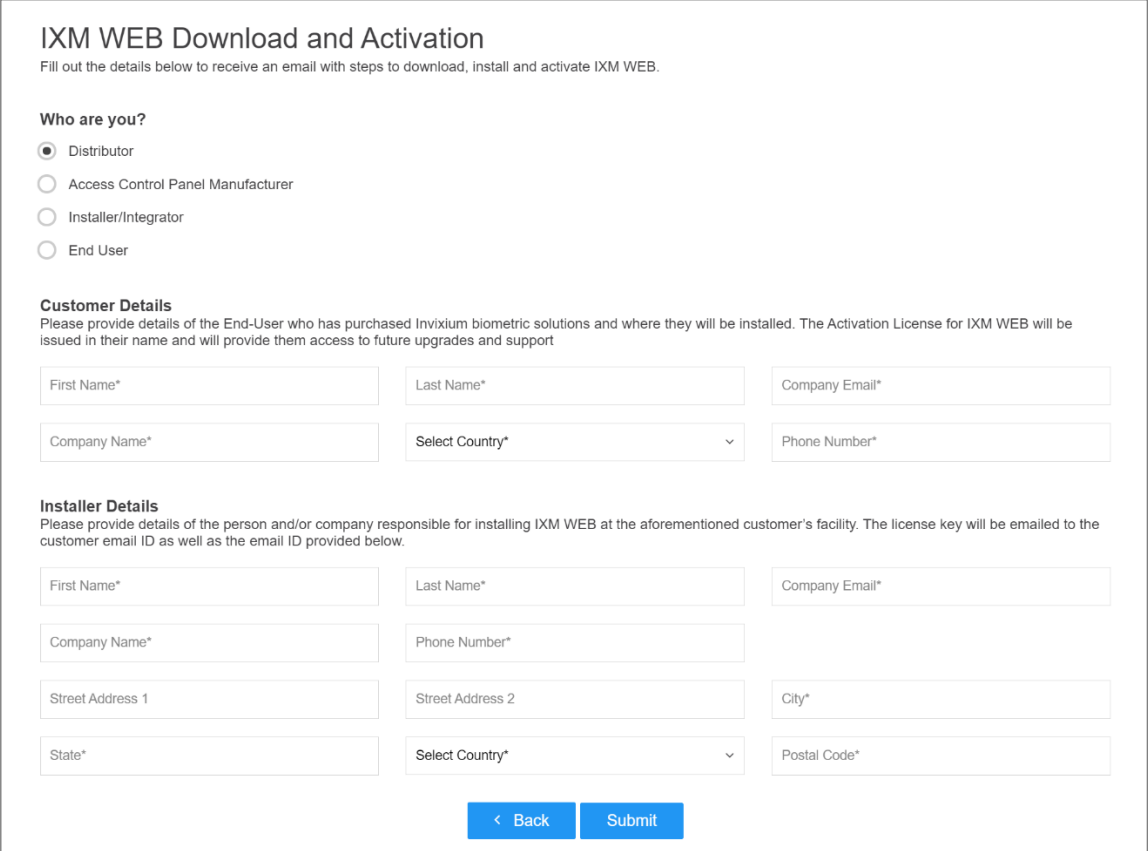
Acquiring an IXM WEB activation key

Procedure

STEP 1

Complete the online form to receive instructions on how to download IXM WEB:

<https://www.invixium.com/download-ixm-web/>.



IXM WEB Download and Activation
Fill out the details below to receive an email with steps to download, install and activate IXM WEB.

Who are you?

Distributor
 Access Control Panel Manufacturer
 Installer/Integrator
 End User

Customer Details
Please provide details of the End-User who has purchased Invixium biometric solutions and where they will be installed. The Activation License for IXM WEB will be issued in their name and will provide them access to future upgrades and support

First Name* Last Name* Company Email*

Company Name* Select Country* Phone Number*

Installer Details
Please provide details of the person and/or company responsible for installing IXM WEB at the aforementioned customer's facility. The license key will be emailed to the customer email ID as well as the email ID provided below.

First Name* Last Name* Company Email*

Company Name* Phone Number*

Street Address 1 Street Address 2 City*

State* Select Country* Postal Code*

< Back Submit

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.

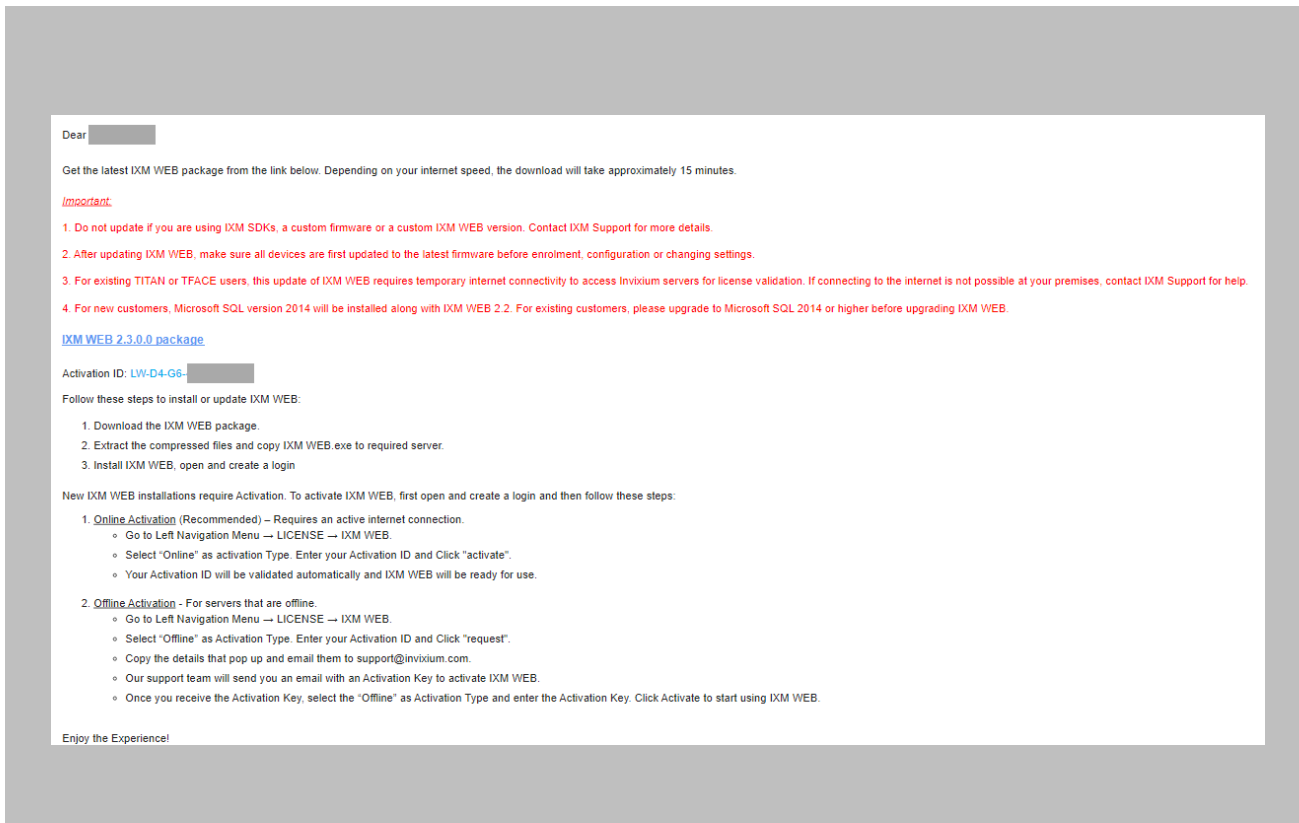


Figure 2: Sample Email After Submitting Online Request Form

Minor Checklist and Considerations

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

Other Minor Checklist	
Windows Updates	Windows Operating system needs to be up to date. 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

6. Installing IXM WEB

Software Install

Procedure

STEP 1

Run the IXM WEB installer (Run as administrator).

Select **Advanced**.

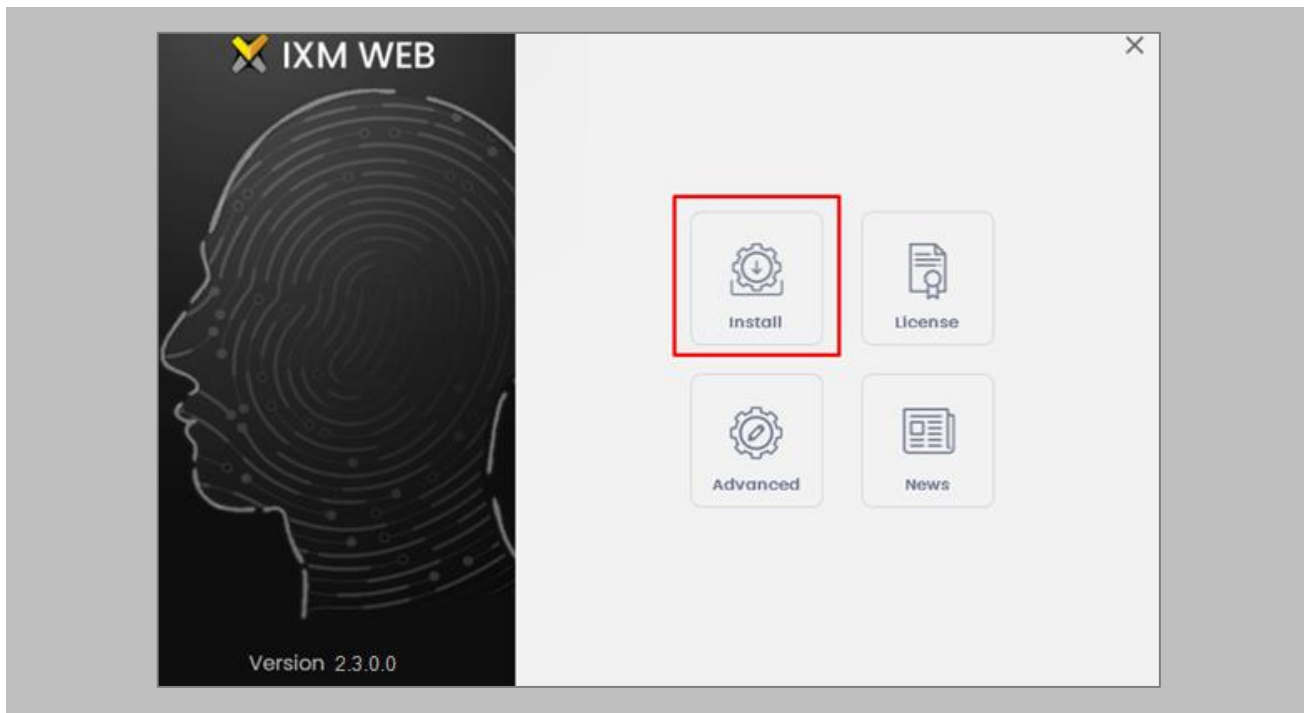


Figure 3: IXM WEB Installer

STEP 2

Click 'Yes' in the popup window. IXM WEB installer starts a basic installation process.

STEP 3

By default, IXM WEB performs basic installation and installs software to the default location with the default port number. If the user wants to, they can change the installation path and specify a port number that communicates with the IIS server. Click **Advance**.

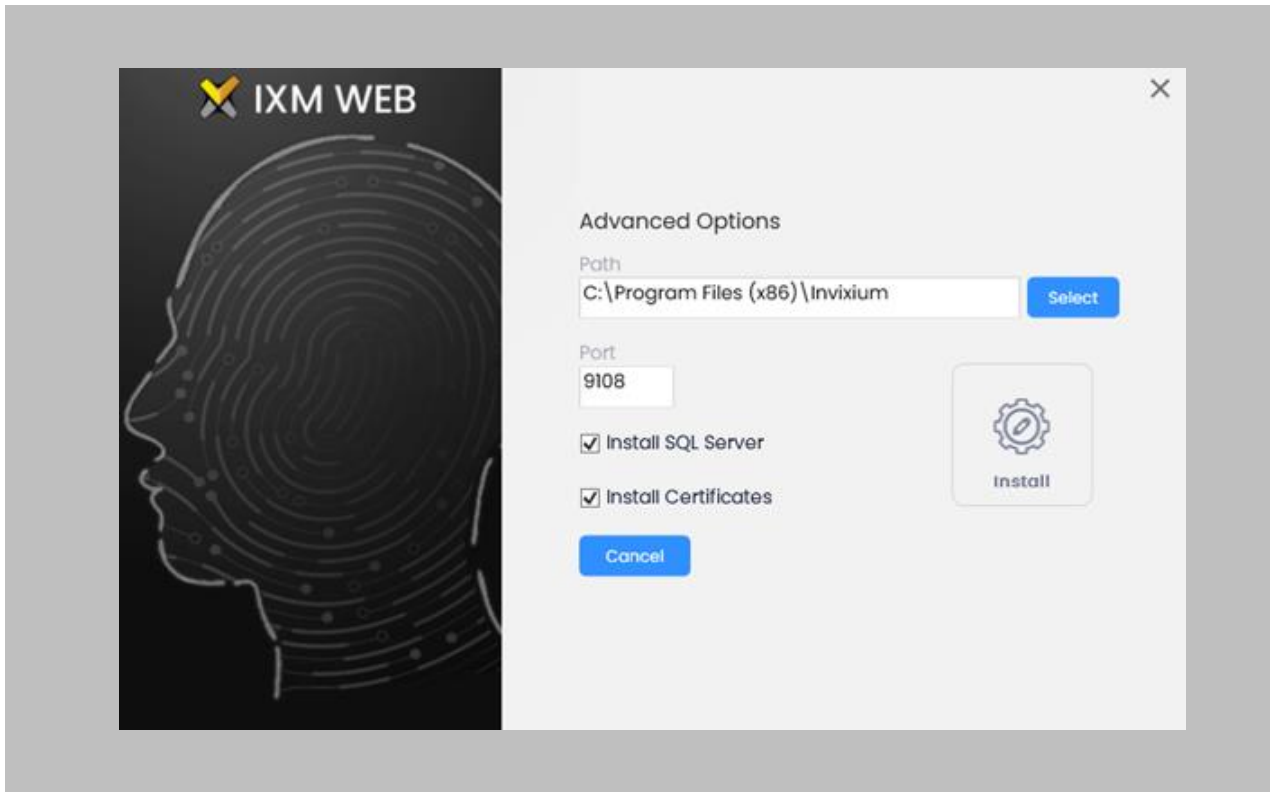


Figure 4: Advanced Option in IXM WEB Installer

STEP 4

In the **Advanced** installation section, the user can change the following options:

- **Installation Path:** In basic installation, the default path is – “**C:\Program Files (x86)\Invixium**”. By changing the path, the user can determine the new physical path on the machine where the IXM WEB package will be extracted.

- **Port Number:** By default, the port number is “9108”. Users can change the port number that is generally used to have communication between the WEB Server (Internet Information Services) and IXM WEB.
- **Install SQL Server:** By default, this field is always selected. It means that IXM WEB will install **SQL Server 2014 Express Edition** along with the IXM WEB application. Users can uncheck this field if any other version of SQL Server will be used or if a different machine will be used as a database server.
- **Install Certificates:** By default, the IXM WEB installer installs all the necessary certificates that are used in SSL communication, or when IXM WEB is configured over cloud, it installs specific certificates for communication. Users can uncheck this field to prevent IXM WEB from installing all the necessary certificates. Invixium does not recommend deselecting this field.

STEP 5

Once the user completes the changes, click **Install**. IXM WEB packages will continue to install on the machine, and it will display the progress when any component is installed in the background.

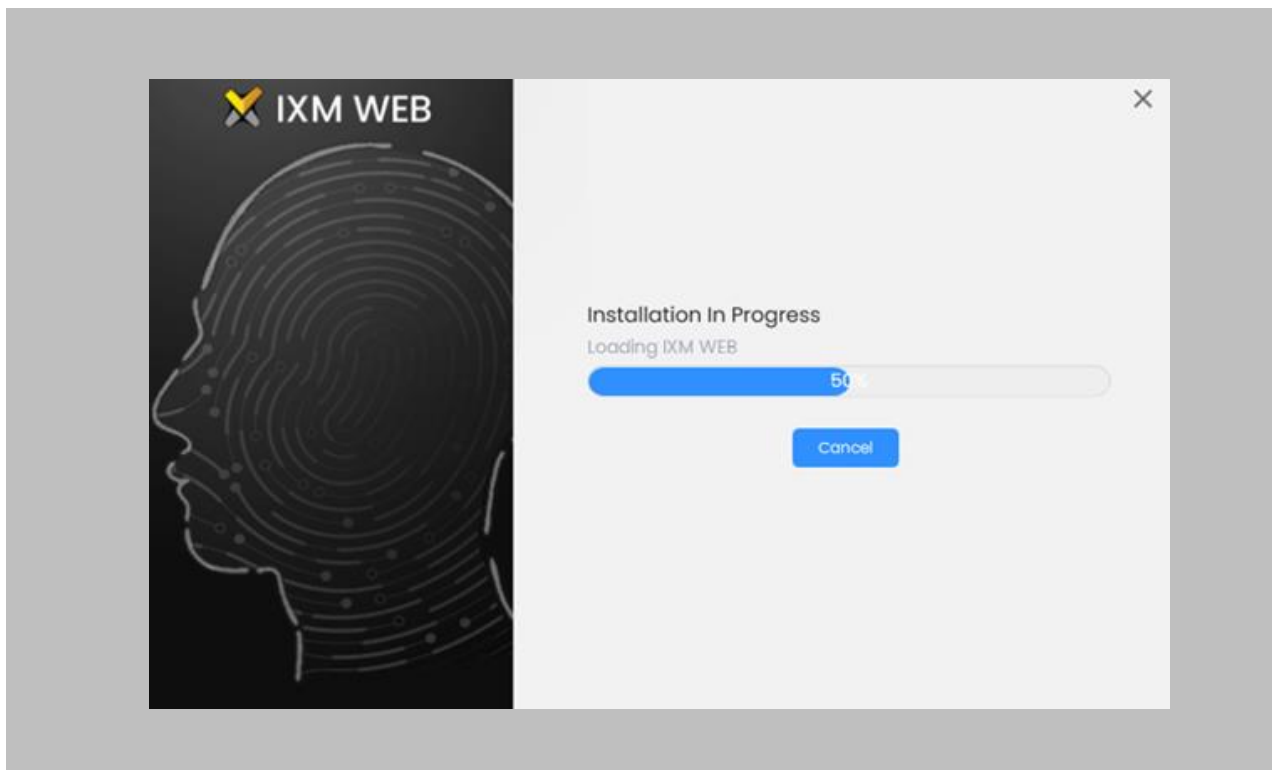


Figure 5: IXM WEB Installation Progress

STEP 6

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

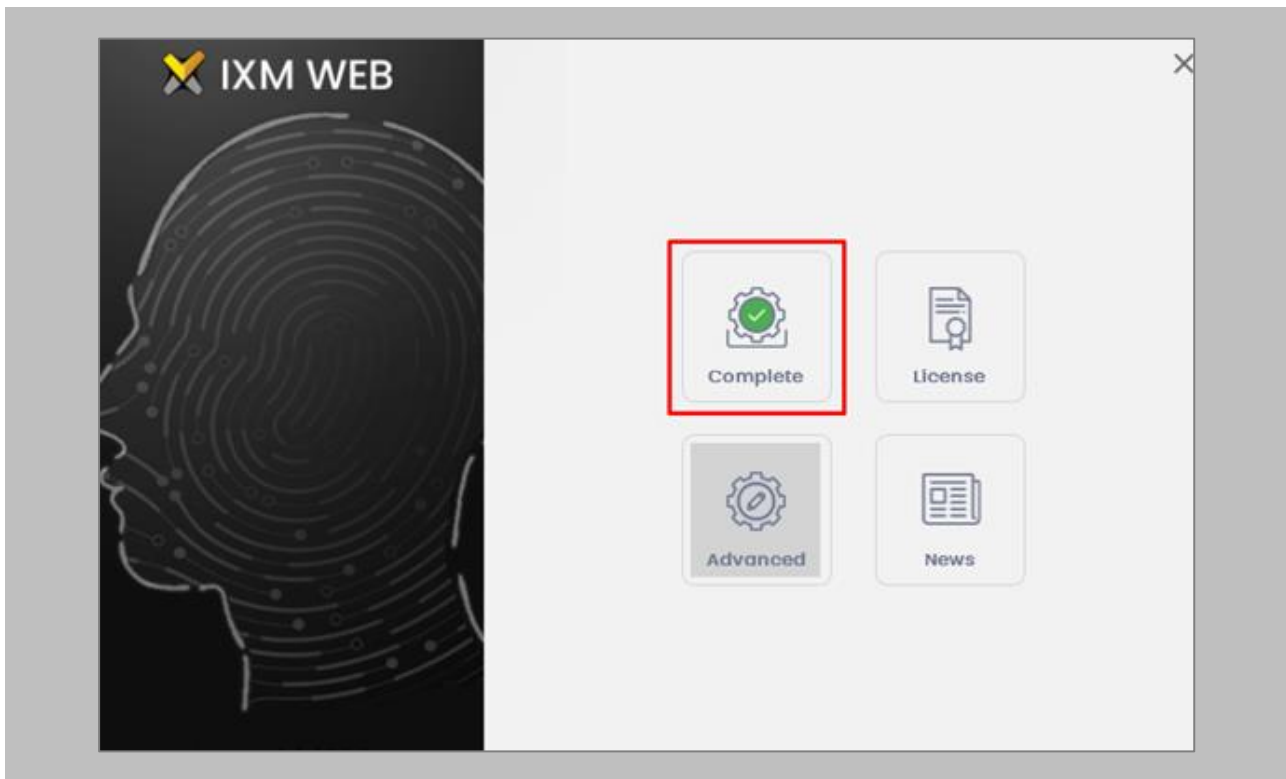


Figure 6: IXM WEB Installation Completed

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

STEP 7

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



Figure 7: IXM WEB Icon - Desktop Shortcut

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

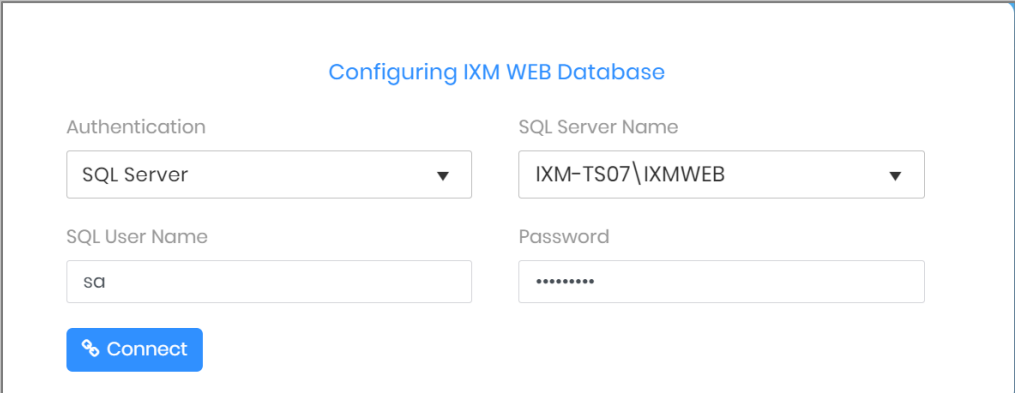
A screenshot of the 'Configuring IXM WEB Database' form. The form has a white background and is titled 'Configuring IXM WEB Database' in blue. It contains four input fields: 'Authentication' (a dropdown menu with 'SQL Server' selected), 'SQL Server Name' (a dropdown menu with 'IXM-TS07\IXMWEB' selected), 'SQL User Name' (a text input field with 'sa' entered), and 'Password' (a text input field with masked characters). A blue 'Connect' button with a white icon is located at the bottom left of the form.

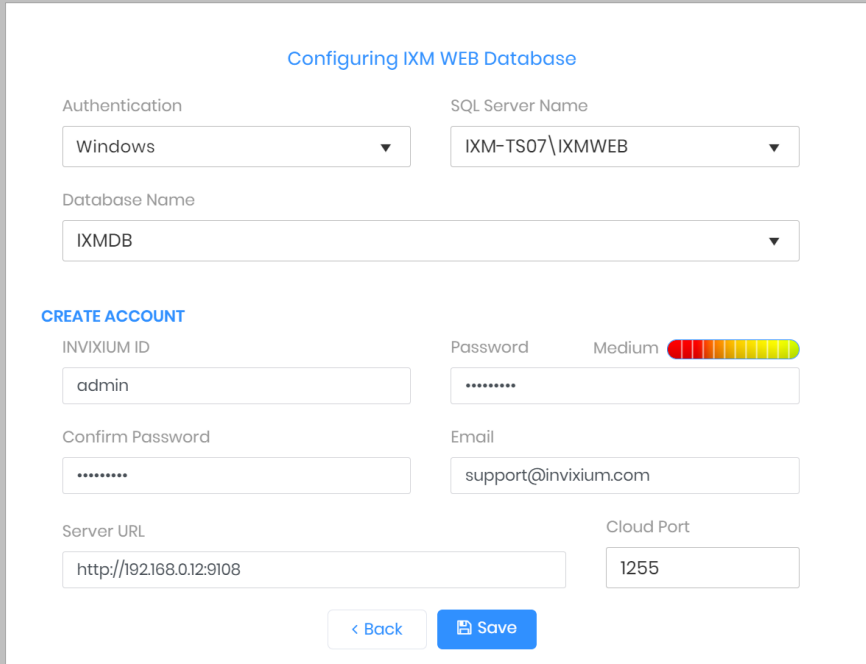
Figure 8: IXM WEB Database Configuration

STEP 8

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

STEP 9

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



Configuring IXM WEB Database

Authentication: Windows | SQL Server Name: IXM-TS07\IXMWEB

Database Name: IXMDB

CREATE ACCOUNT

INVIXIUM ID: admin | Password: Medium (strength indicator) | Confirm Password: | Email: support@invixium.com

Server URL: http://192.168.0.12:9108 | Cloud Port: 1255

< Back | Save

Figure 9: IXM WEB Administrator User Configuration

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

STEP 10

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 11

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

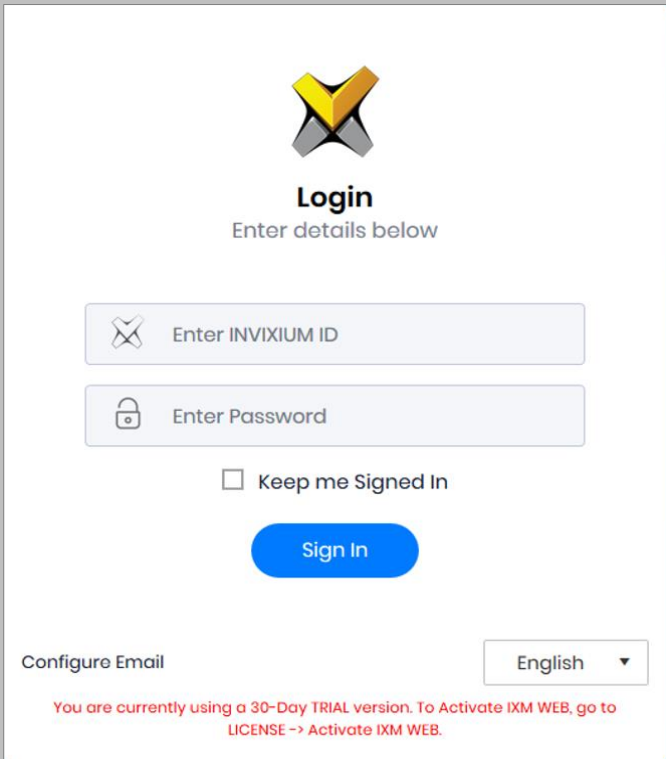
For example:

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 12

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



The screenshot shows the INVIXIUM login page. At the top center is the INVIXIUM logo, a stylized 'X' with a yellow and grey gradient. Below the logo is the word "Login" in bold, followed by the text "Enter details below". There are two input fields: the first is labeled "Enter INVIXIUM ID" with a key icon, and the second is labeled "Enter Password" with a padlock icon. Below these fields is a checkbox labeled "Keep me Signed In". A blue "Sign In" button is centered below the checkbox. At the bottom left, there is a link "Configure Email". At the bottom right, there is a language dropdown menu currently set to "English". At the very bottom, a red message reads: "You are currently using a 30-Day TRIAL version. To Activate IXM WEB, go to LICENSE -> Activate IXM WEB."

Figure 10: IXM WEB Login Page

7. 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 to retrieve 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

Click **Configure Email** on the Login page.

OR

Expand the **Left Navigation Pane** → **Navigate to Notification Settings** → **Email Configuration** → Click **Manage Preferences**.

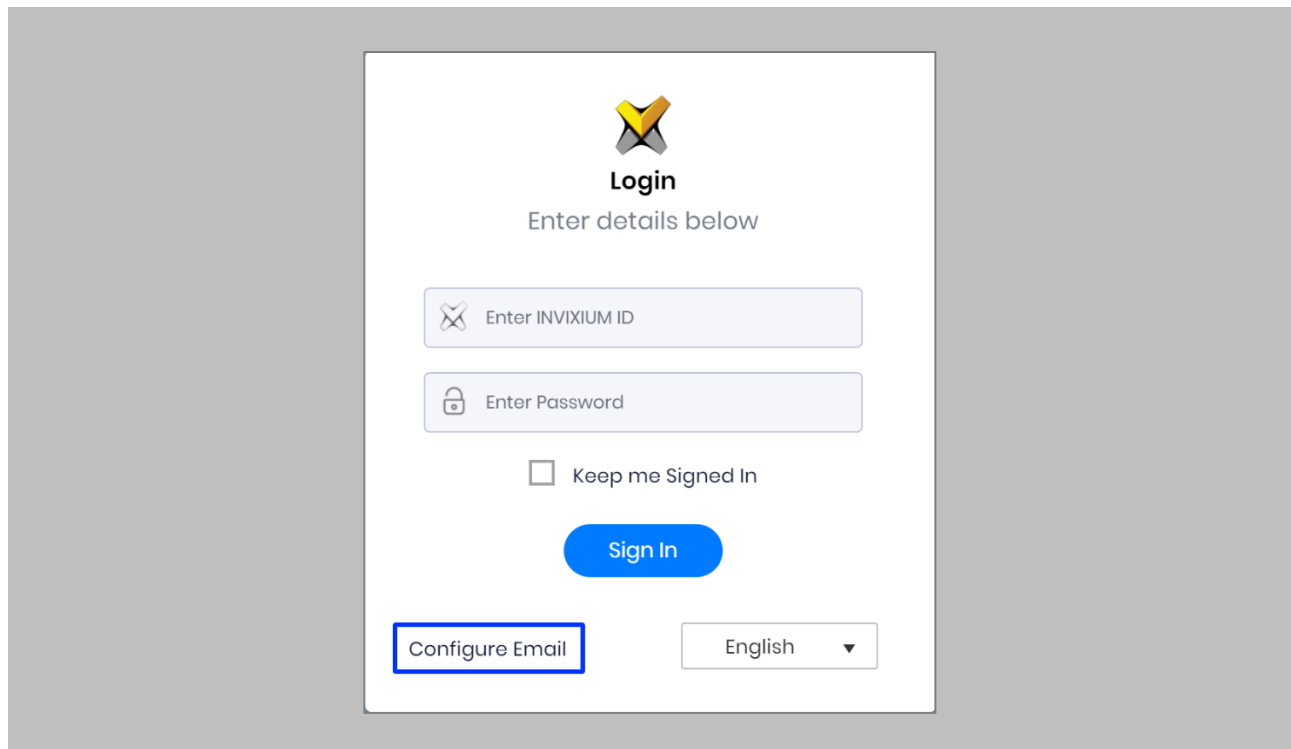


Figure 11: Configure Email

STEP 2

Select “Enable Email Configuration” and enter values for “SMTP Host”, “SMTP Port”, and “Send email message from” fields.

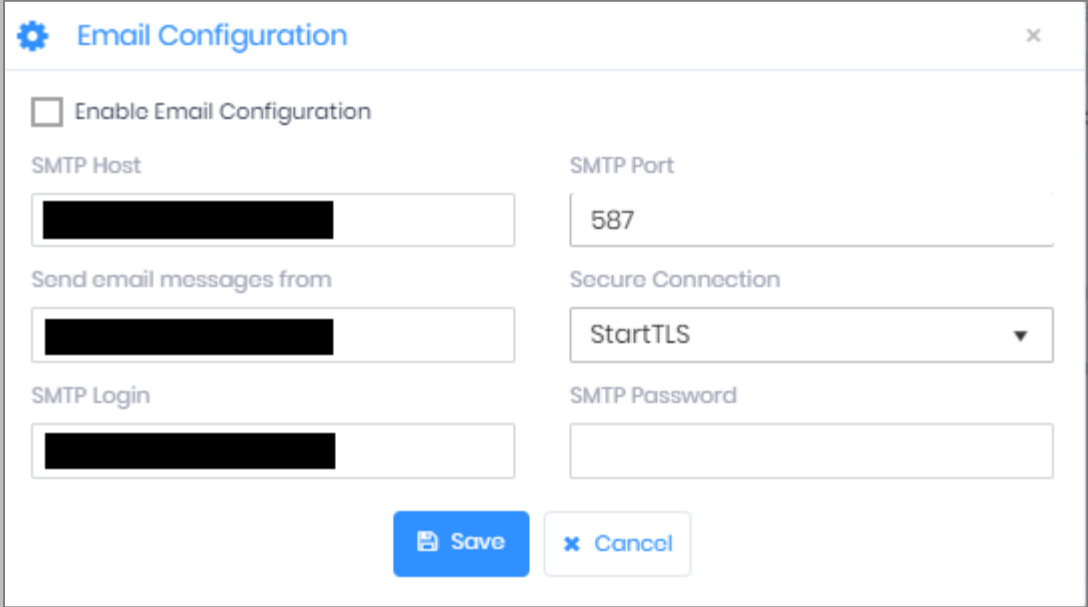



Figure 12: IXM WEB - SMTP Settings

 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.

STEP 3

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

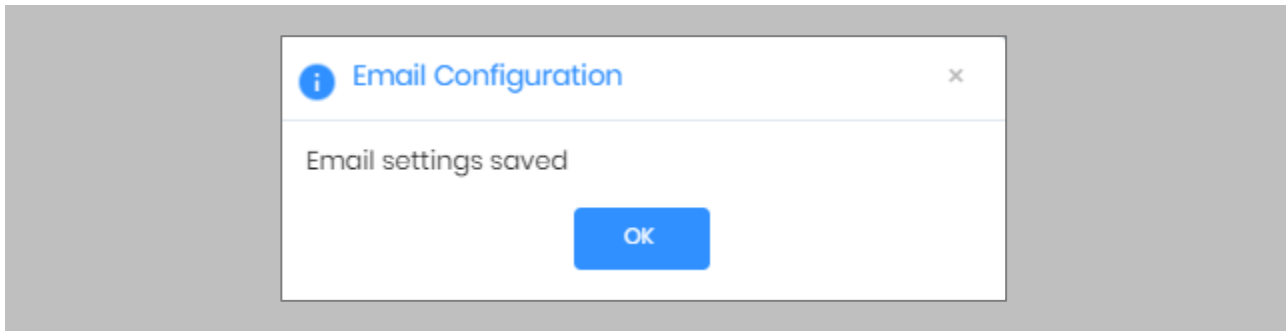


Figure 13: IXM WEB - Save Email Settings

To test the settings, Navigate to **Notification Settings** from the **Left Navigation Pane** → Go to **Email Configuration** → Click the **Test Connection** button on the right.

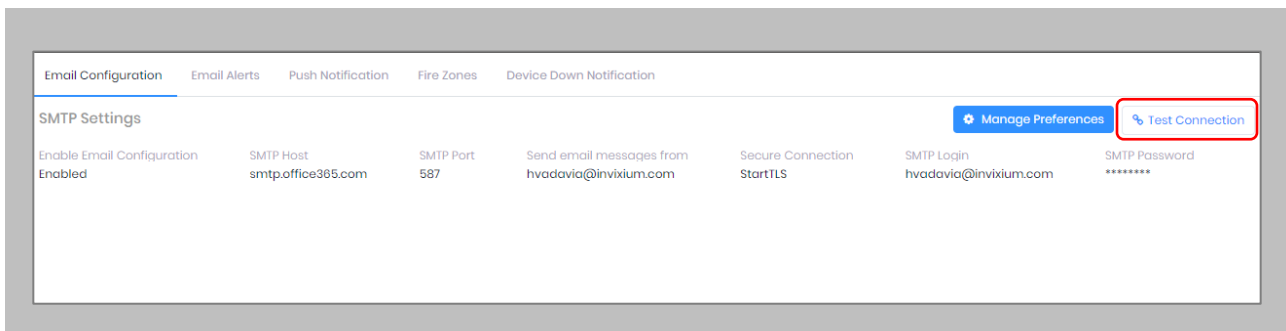


Figure 14: IXM WEB - Test Connection

Provide a valid email address. Click **Send** to send a test email.

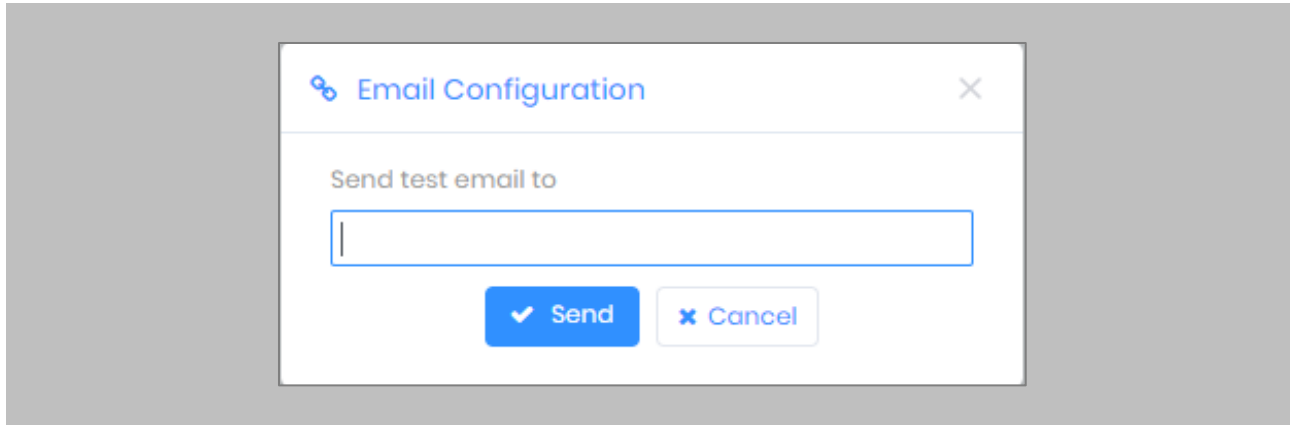


Figure 15: IXM WEB - Enter Email ID

STEP 4

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

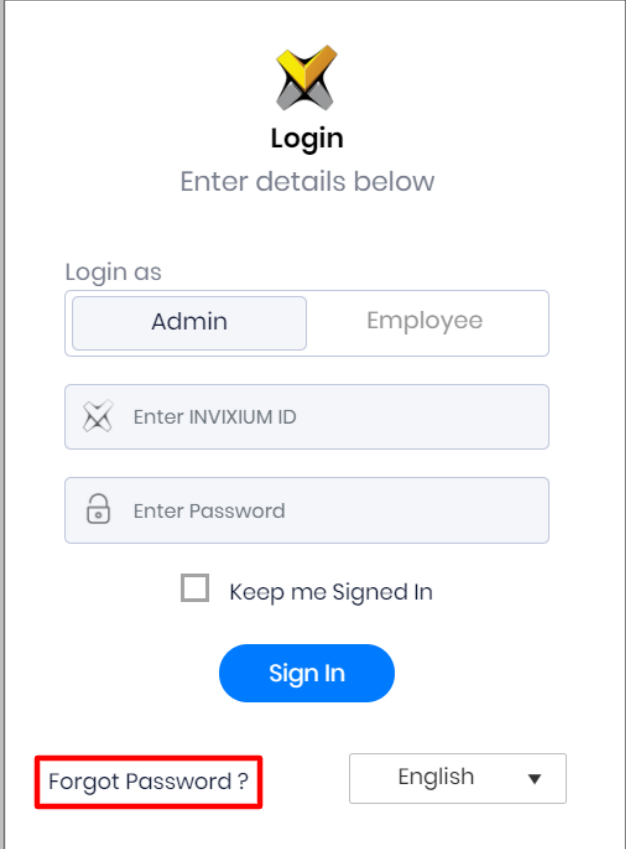


Figure 16: IXM WEB - Forgot Password

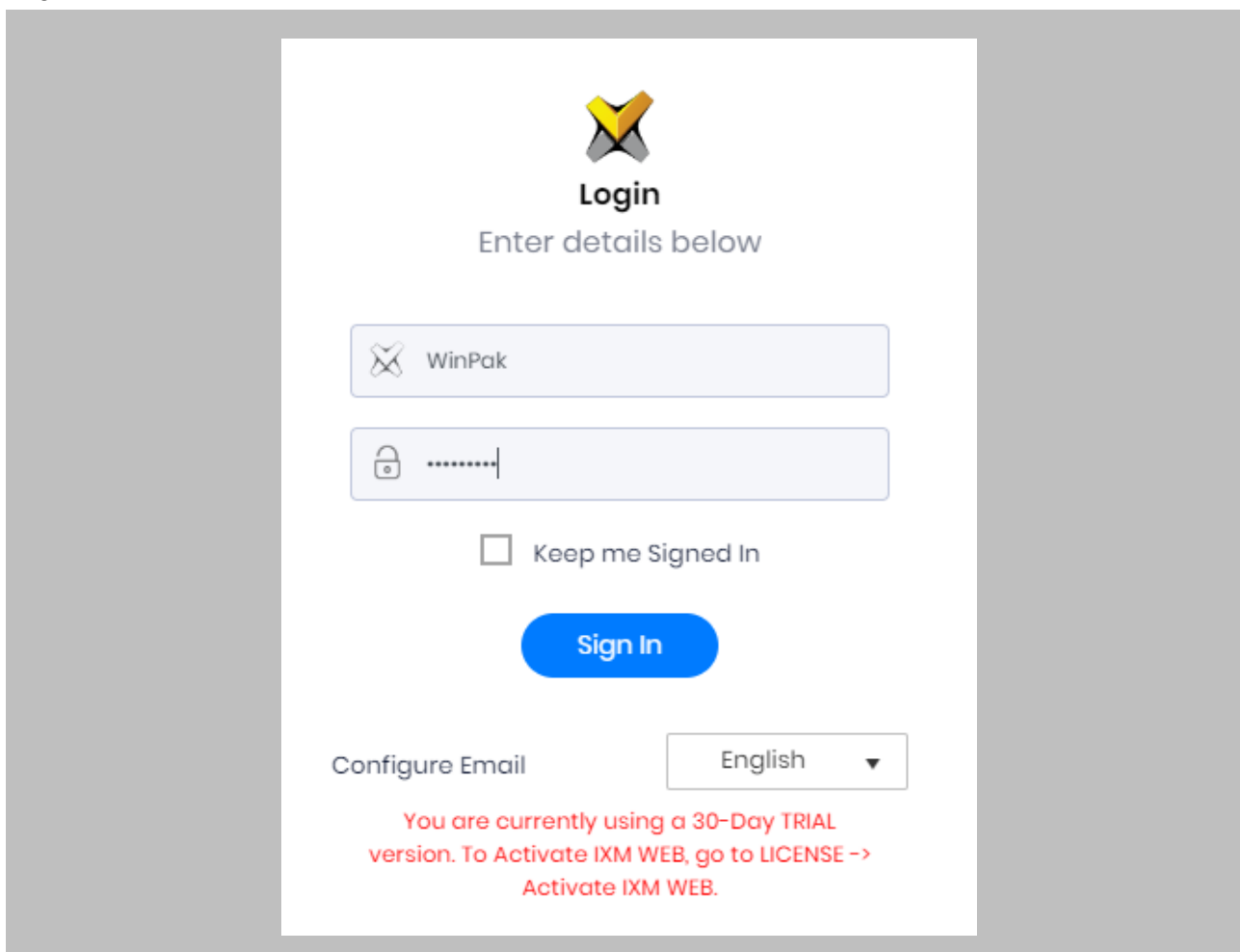
8. Software and Module Activation


IXM WEB Activation

Procedure

STEP 1

Log into IXM WEB.




Login
Enter details below

Keep me Signed In

Sign In

[Configure Email](#) English ▼

You are currently using a 30-Day TRIAL version. To Activate IXM WEB, go to LICENSE -> Activate IXM WEB.

Figure 17: IXM WEB - Enter Login Credentials

STEP 2

Select the **License Tab** and then select the **IXM WEB** module to request an activation key for **IXM WEB**.

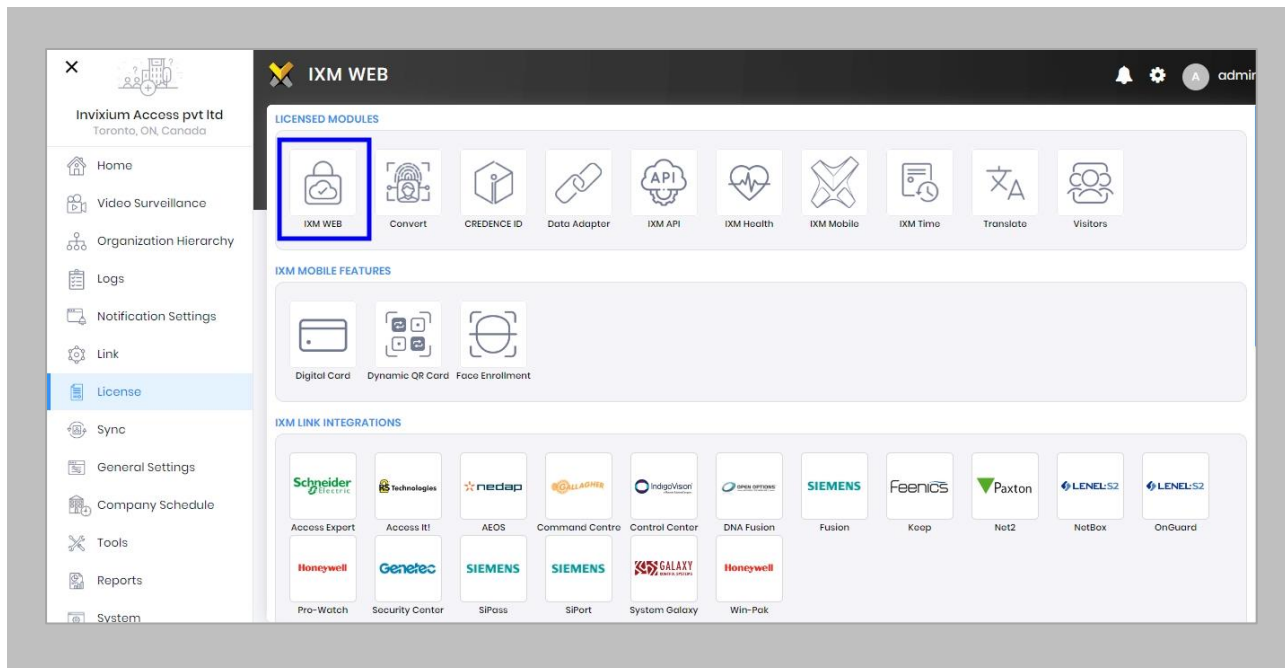



Figure 18: IXM WEB - License Setup

STEP 3

Request an **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.

STEP 4

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

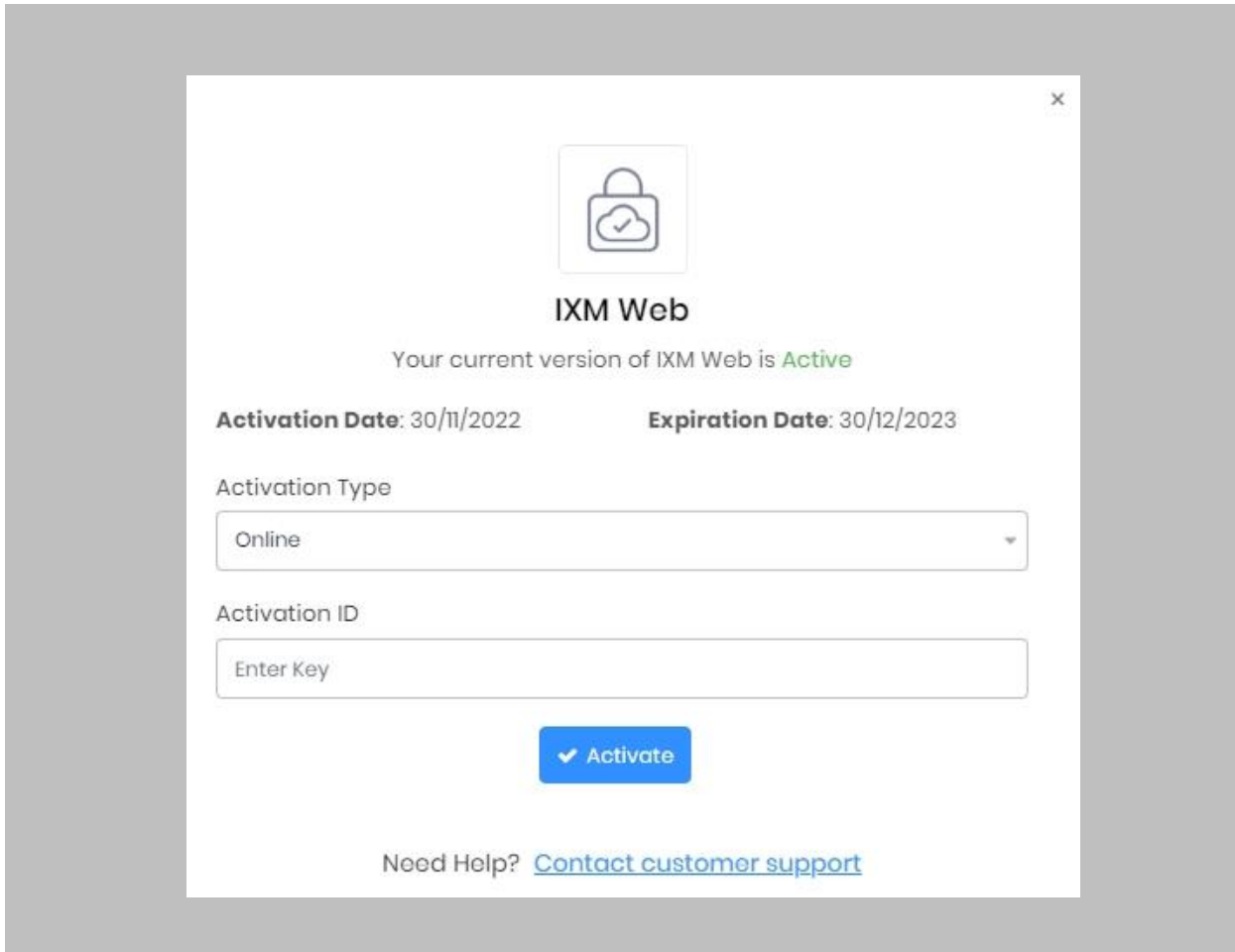


Figure 19: IXM WEB - Online Activation

WIN-PAK Module Activation

The option to activate a Honeywell WIN-PAK License is available under the **License** tab.

STEP 1

Request a **License**.

STEP 2

From **Home**, expand the **Left Navigation Pane**, Go to → **License** tab, click → **WIN-PAK (Honeywell)**.

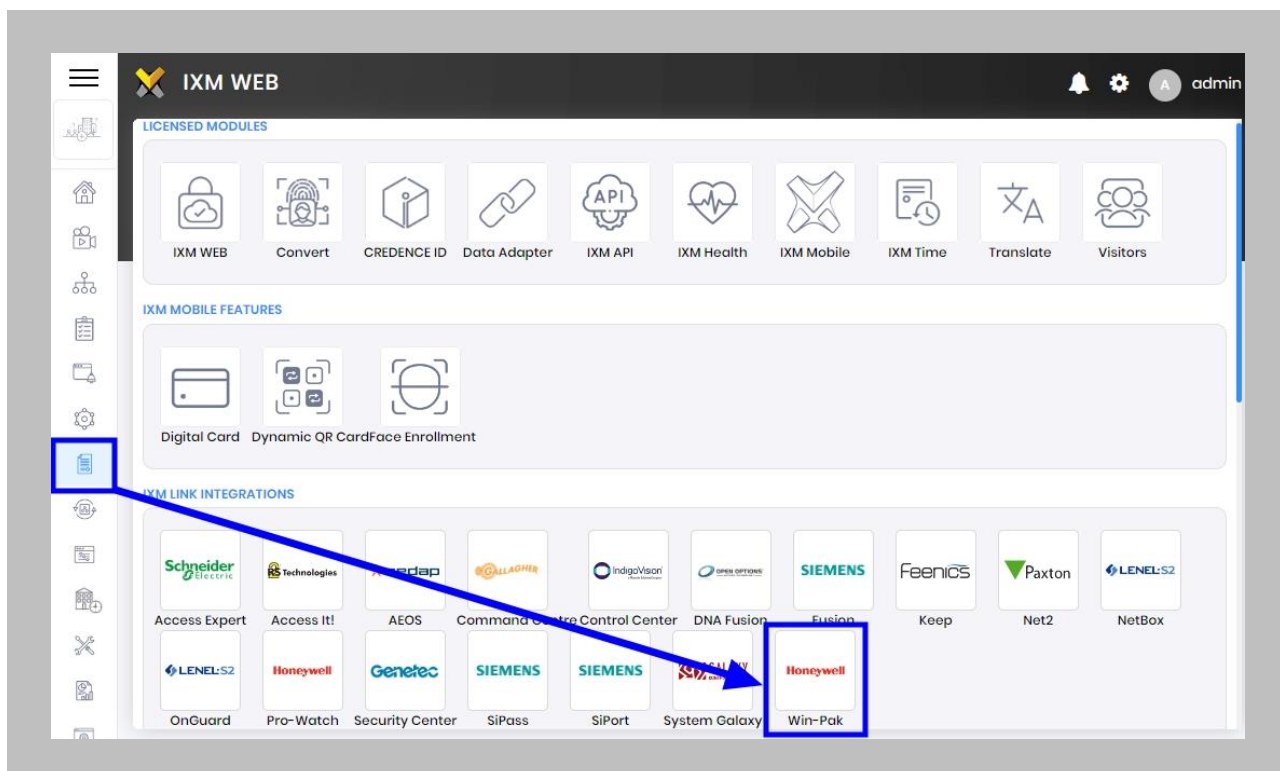


Figure 20: IXM WEB – WIN-PAK Link Activation



STEP 3

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

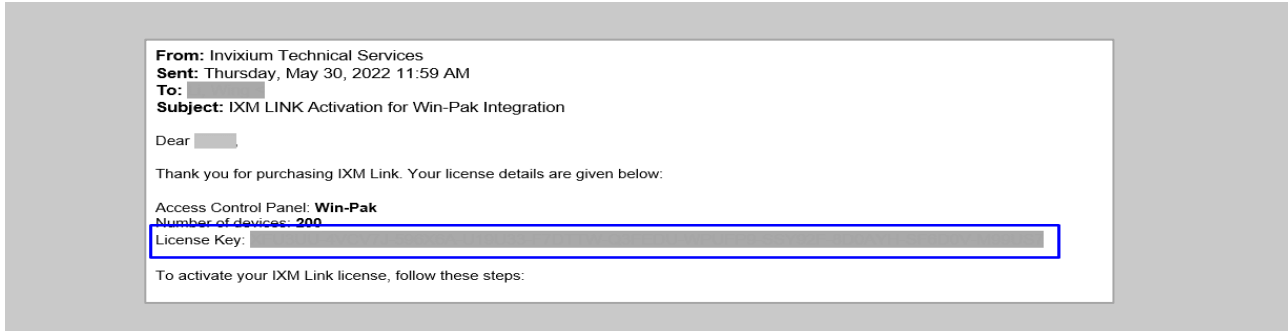


Figure 21: WIN-PAK License Key Email

STEP 4

Copy and **paste** the License Key in the box provided, and then select **Activate**.

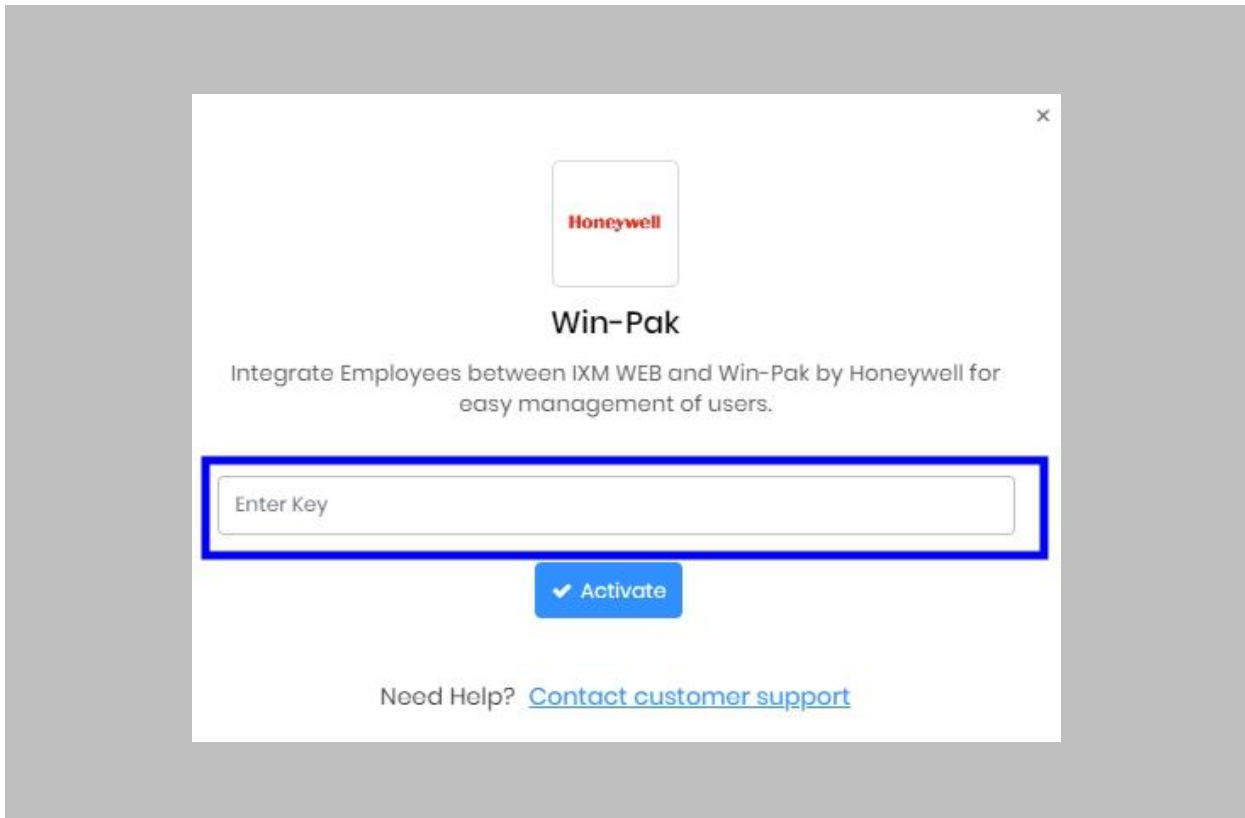


Figure 22: IXM WEB - Activate WIN-PAK Link License

RESULT

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

9. Configuring IXM Link for WIN-PAK

Procedure

STEP 1

From the **Left Navigation Pane** → **Link** → click the red **WIN-PAK (Honeywell)** icon.

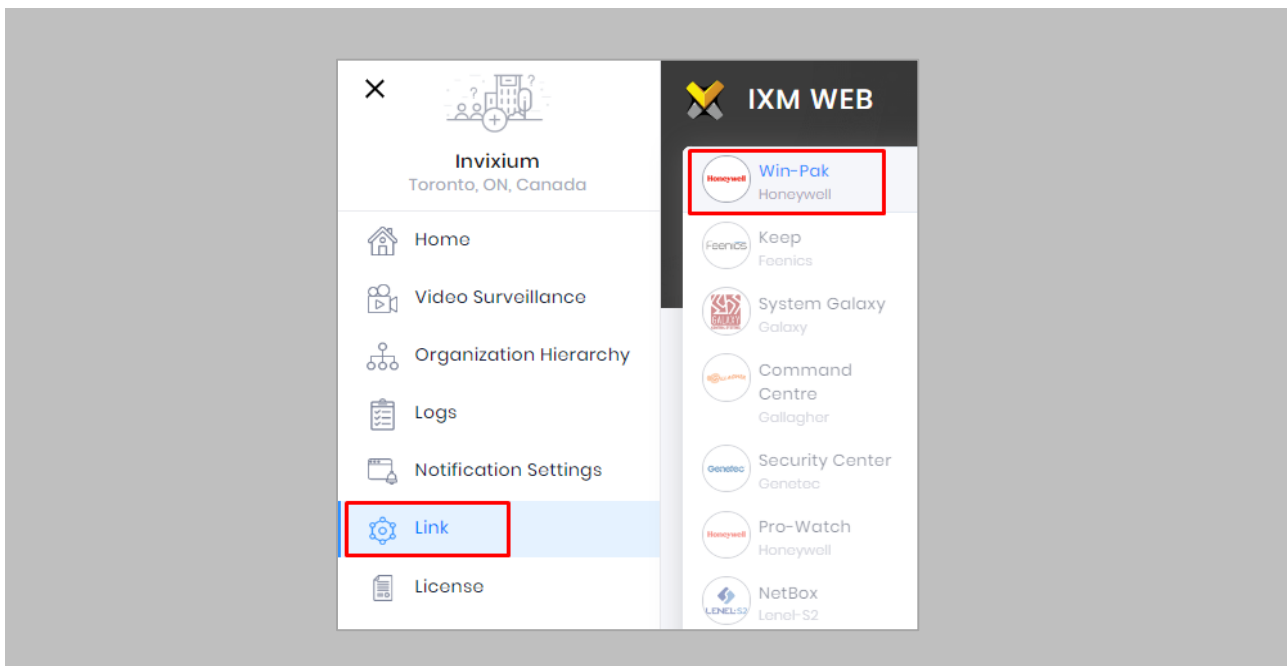
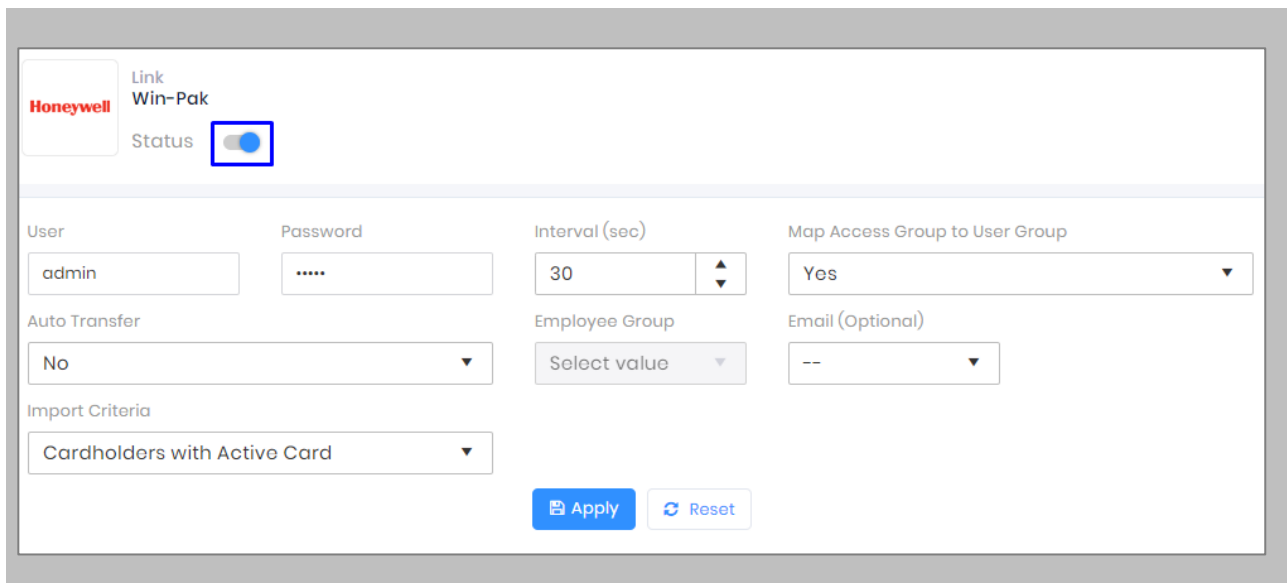


Figure 23: IXM WEB - Link Menu

STEP 2

Toggle the **Status** switch to enable.



The screenshot shows the configuration page for the Honeywell Win-Pak Link module. At the top left, there is a Honeywell logo and the text "Link Win-Pak". Below this, the "Status" toggle switch is turned on and highlighted with a blue box. The main configuration area contains several fields: "User" (admin), "Password" (masked with dots), "Interval (sec)" (30), "Map Access Group to User Group" (Yes), "Auto Transfer" (No), "Employee Group" (Select value), "Email (Optional)" (--), and "Import Criteria" (Cardholders with Active Card). At the bottom right, there are "Apply" and "Reset" buttons.

Figure 24: IXM WEB - Enable WIN-PAK Link Module

STEP 3

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

STEP 4

Specify in seconds how often sync should take place.

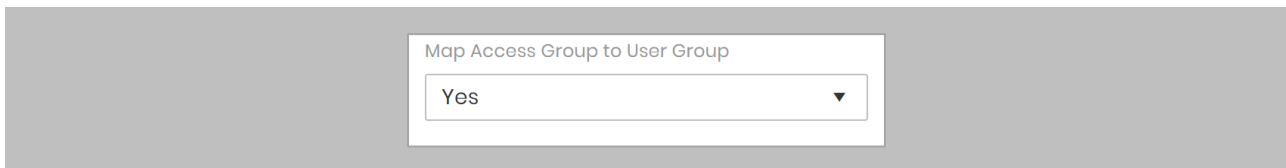
STEP 5

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.



A screenshot of a web interface showing a dropdown menu. The label above the dropdown is "Map Access Group to User Group". The dropdown menu is open, and the selected option is "Yes".

Figure 25: IXM WEB - Map Access Group to User Group

STEP 6

Auto Transfer

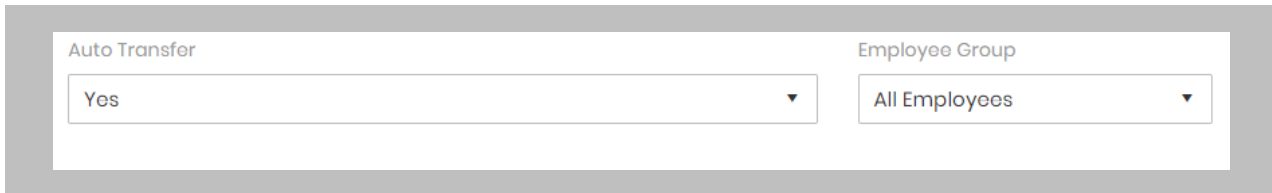
No: Employees synchronized from WIN-PAK will not be automatically added to any of the employee groups present in IXM WEB.



A screenshot of a web interface showing a dropdown menu. The label above the dropdown is "Auto Transfer". The dropdown menu is open, and the selected option is "No".

Figure 26: 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.



The screenshot shows two dropdown menus. The first is labeled 'Auto Transfer' and has 'Yes' selected. The second is labeled 'Employee Group' and has 'All Employees' selected.

Figure 27: IXM WEB - Auto Transfer Yes

STEP 7

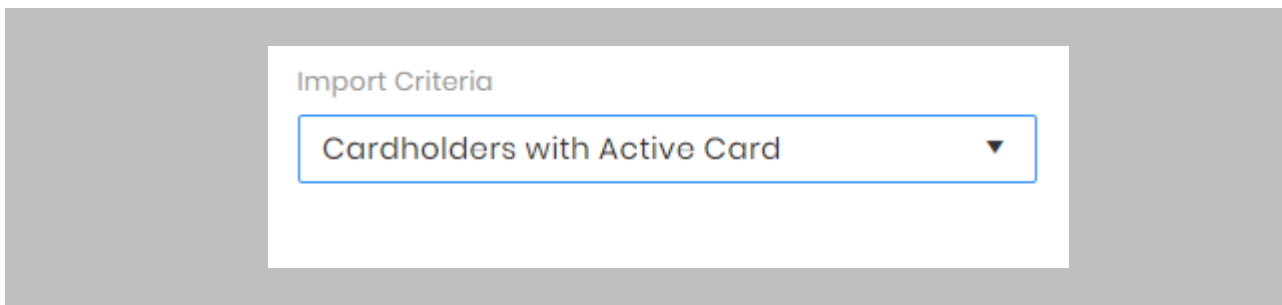
Copy the note field name created for '**Email**' (refer to [Configure Note Field for Email in WIN-PAK](#))

STEP 8

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.



The screenshot shows a dropdown menu labeled 'Import Criteria' with 'Cardholders with Active Card' selected.

Figure 28: IXM WEB – Import Criteria

STEP 9

Click **Apply**.

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

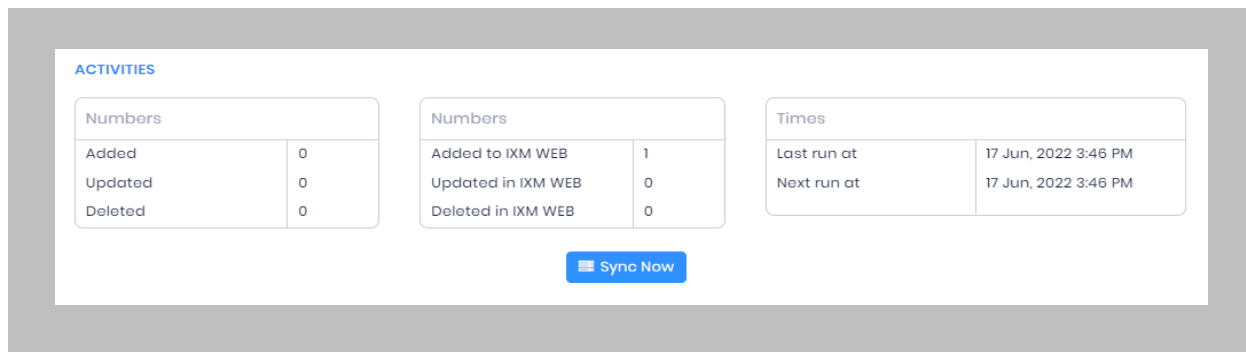


Figure 29: IXM WEB - Sync Activities

STEP 10

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.

10. Add and Configure Invixium Readers

Adding an Invixium Reader in IXM WEB

Procedure

STEP 1

From [Home](#), click the [Devices](#) tab.

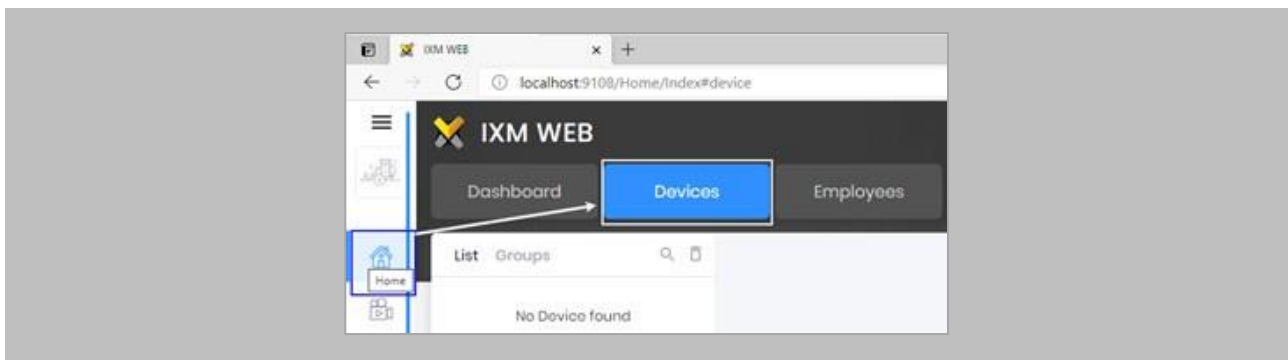


Figure 30: IXM WEB - Devices Tab

STEP 2

Select the **Add 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.

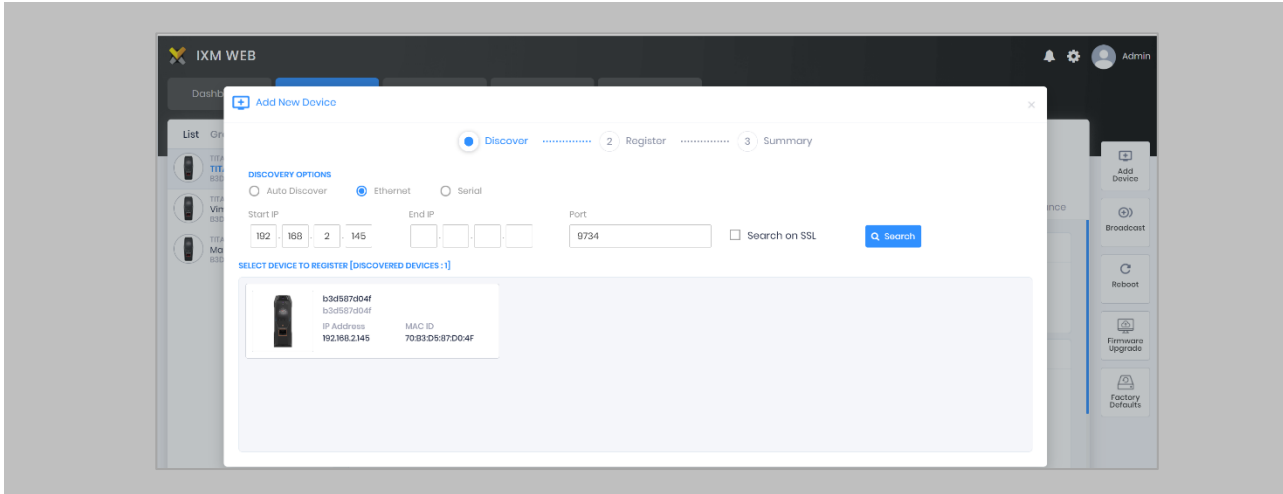
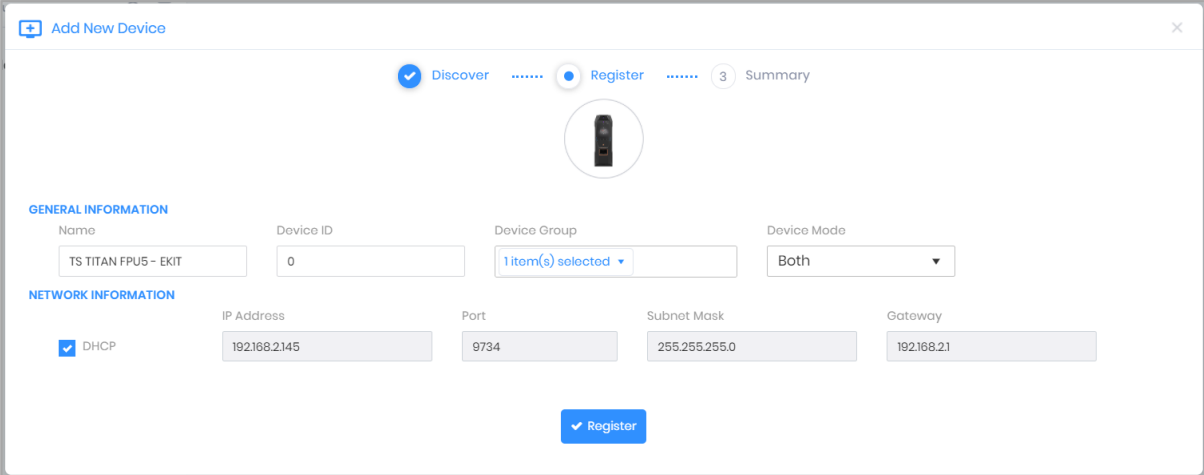


Figure 31: IXM WEB - Search Device using IP Address

STEP 3

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



The screenshot shows the 'Add New Device' window with the following details:

- Progress: Discover (checked), Register (active), Summary (3)
- Device Image: A small image of a device is shown in a circle.
- GENERAL INFORMATION:
 - Name: TS TITAN FPU5 - EKIT
 - Device ID: 0
 - Device Group: 1 item(s) selected
 - Device Mode: Both
- NETWORK INFORMATION:
 - DHCP:
 - IP Address: 192.168.2145
 - Port: 9734
 - Subnet Mask: 255.255.255.0
 - Gateway: 192.168.21
- Register Button: A blue button with a checkmark and the text 'Register'.

Figure 32: IXM WEB - Register Device

STEP 4

Name the **device**.

Device Mode: select accordingly.

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

STEP 5

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

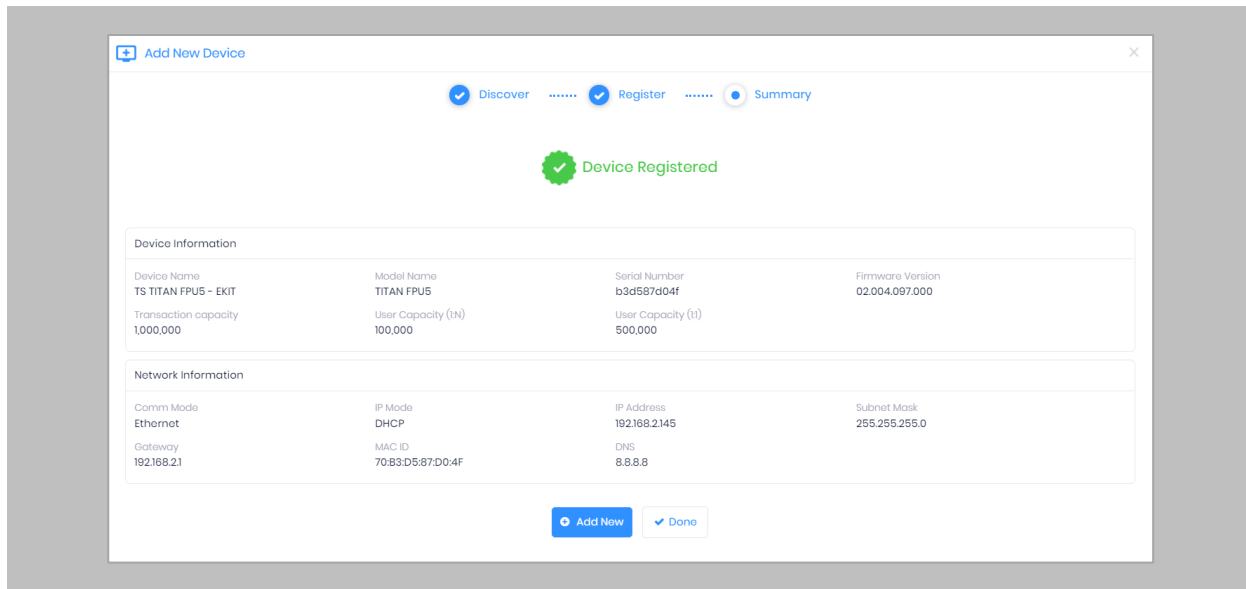


Figure 33: IXM WEB - Device Registration Complete

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

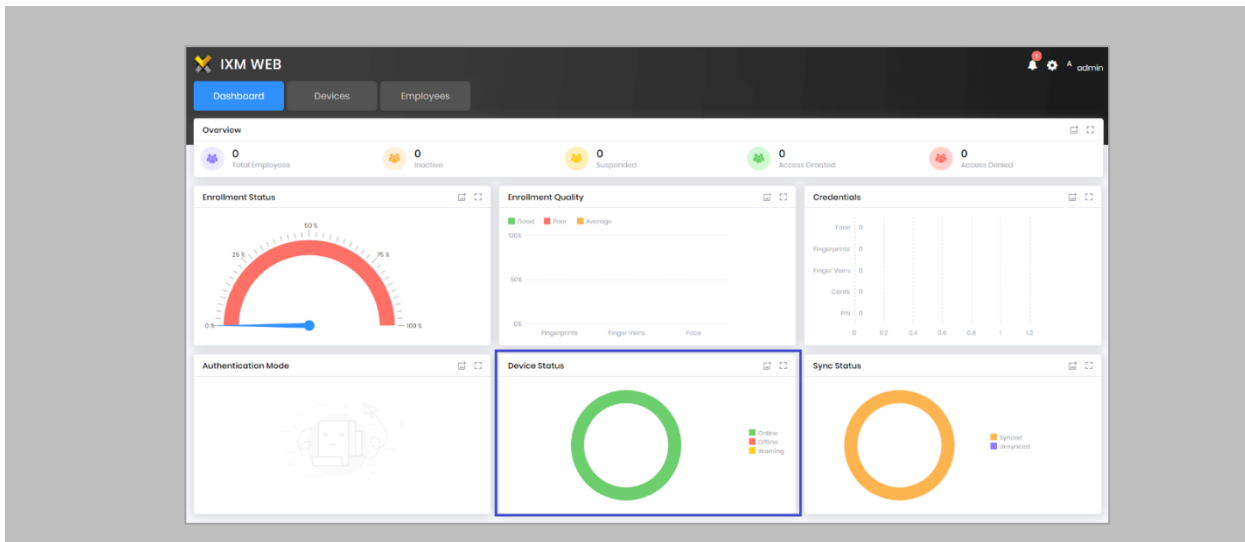


Figure 34: IXM WEB - Dashboard, Device Status

11. Adding an Invixium Device to a Device Group

Procedure

STEP 1

Go to **Devices** → **Groups**.

Add the device from the Right Side pane to the respective **Device Group**.

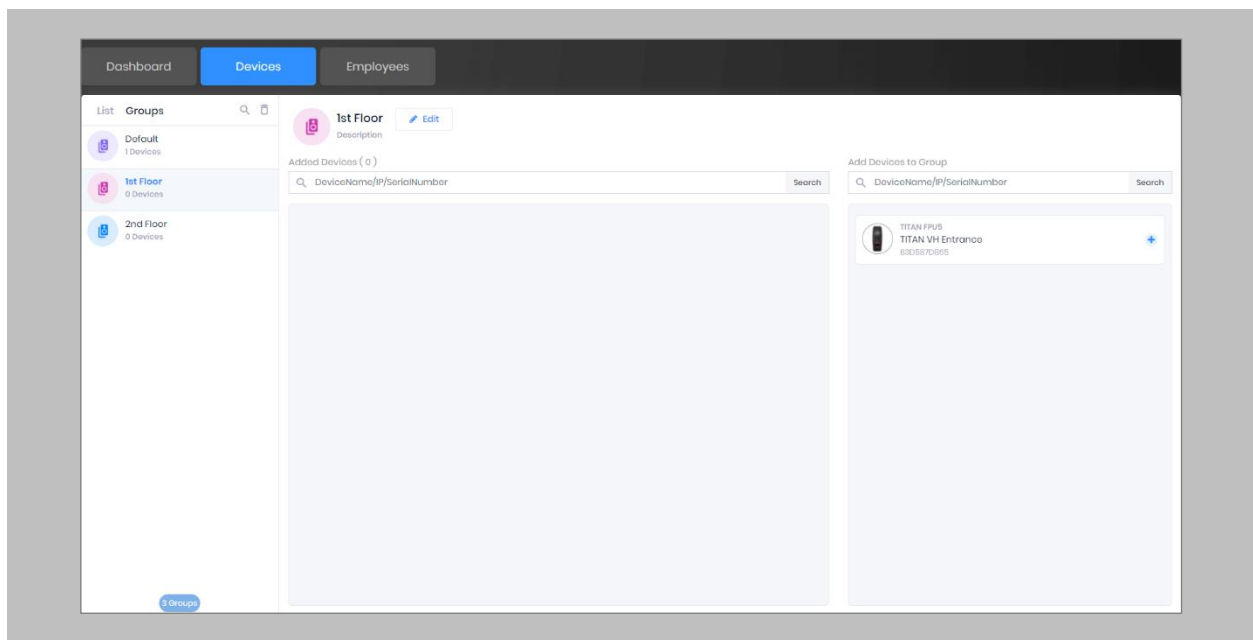



Figure 35: IXM WEB - Assign Device Group

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 Invixium.

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

STEP 1

From **Home** > click the **Devices** tab. Select any device.

STEP 2

Navigate to the **Access Control** tab.

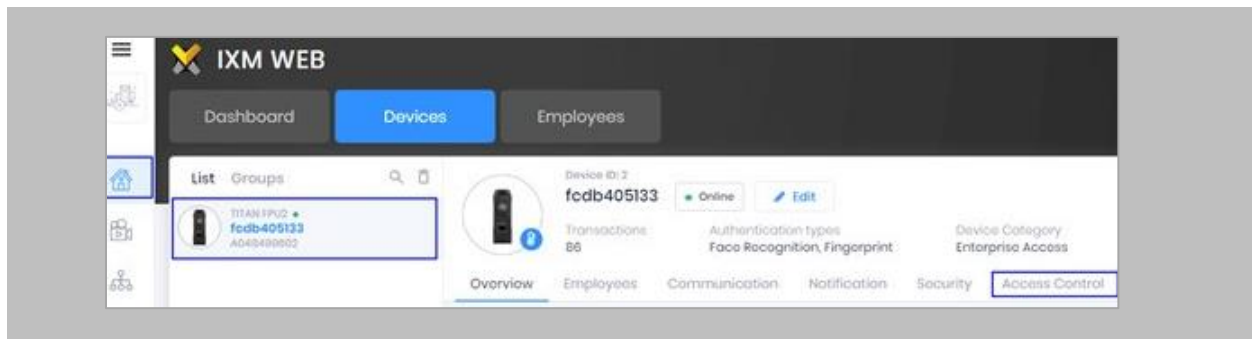


Figure 36: IXM WEB - Navigate to Access Control Tab

STEP 3

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

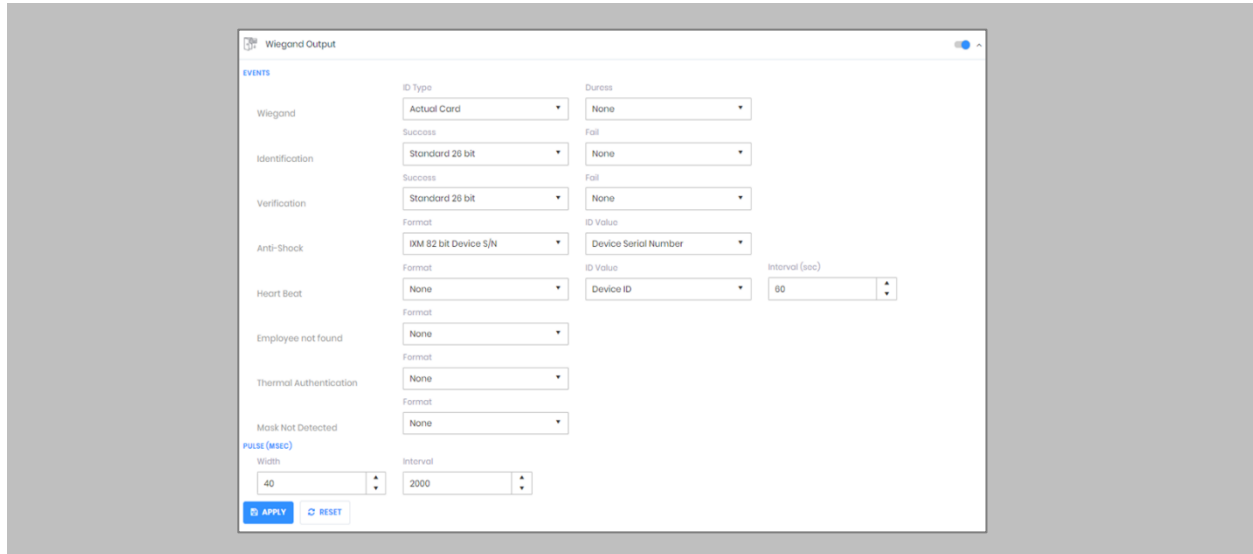


Figure 37: IXM WEB - Wiegand Output

ID types for Wiegand output are as follows:


1. Employee ID
2. Default Card
3. 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.

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 default card.

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

STEP 4

Set the **items**:

Wiegand	Actual Card
Identification	26 - bit
Verification	26 - bit

STEP 5

Click **Apply**.

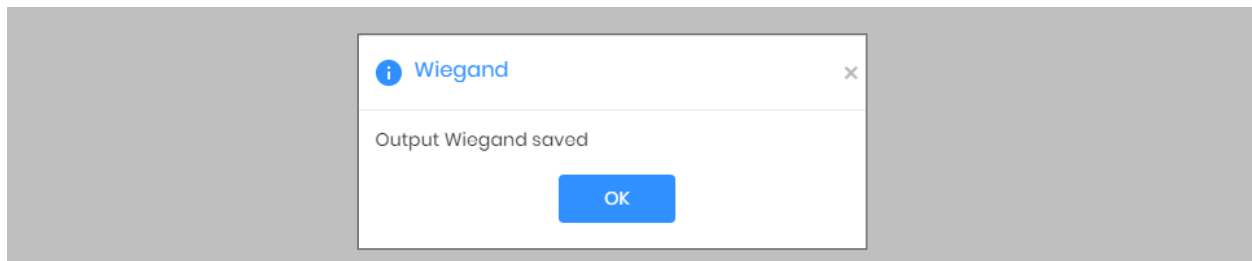


Figure 38: IXM WEB - Save Output Wiegand

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 1st assigned card will be the 'default' selected card. The details of the card will be sent as the Wiegand bits input to the WIN-PAK Panel.

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**.

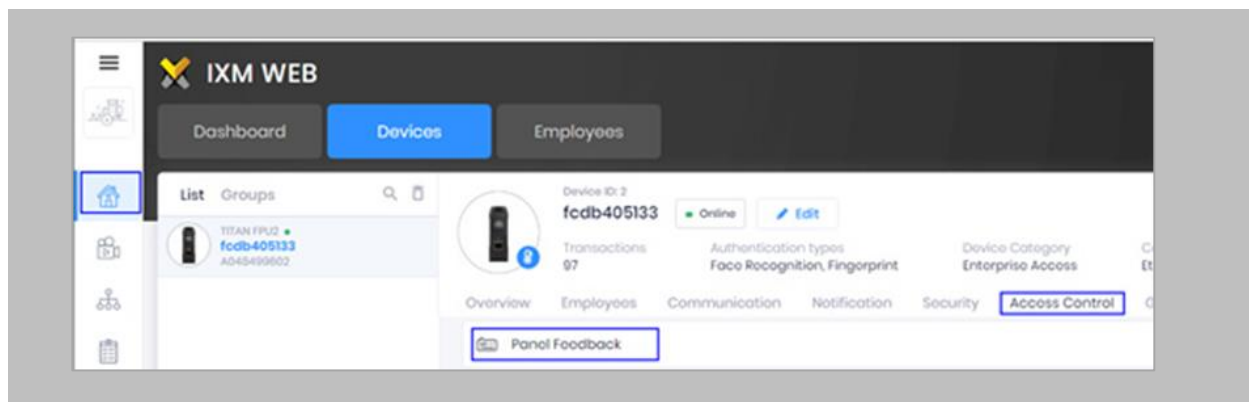


Figure 39: IXM WEB - Panel Feedback

STEP 4

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**.

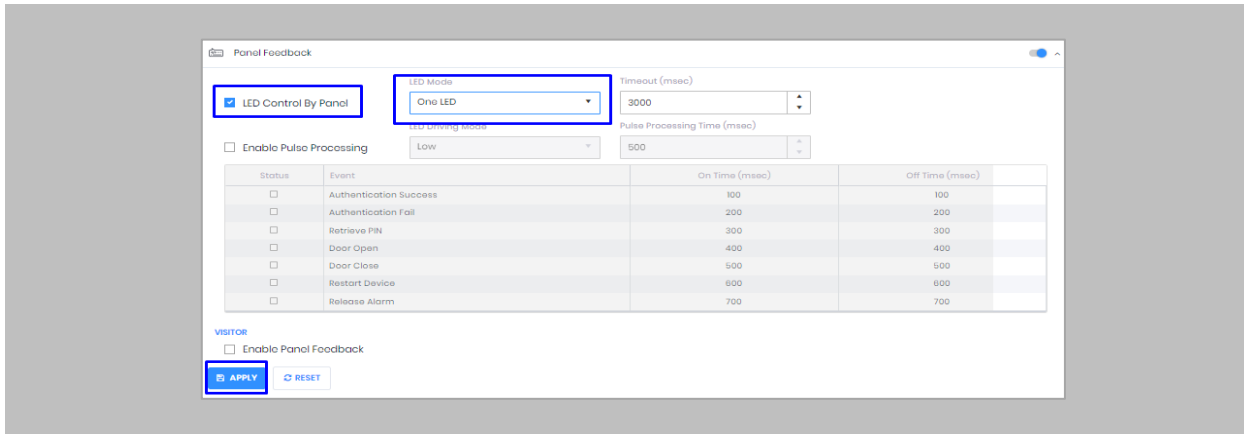


Figure 40: IXM WEB - Configuring Panel Feedback in IXM WEB

STEP 5

Click **Apply**.

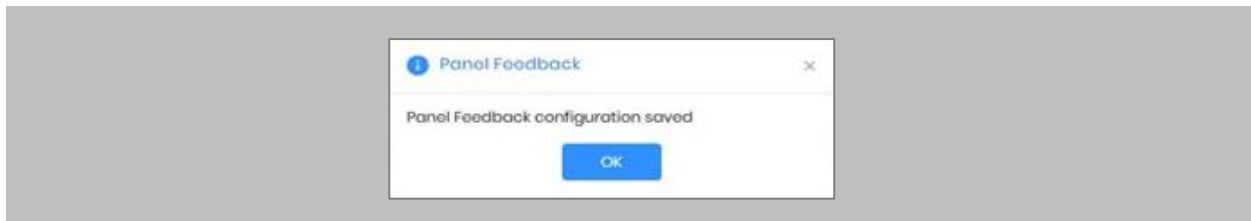


Figure 41: IXM WEB - Save Panel Feedback

12. 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.

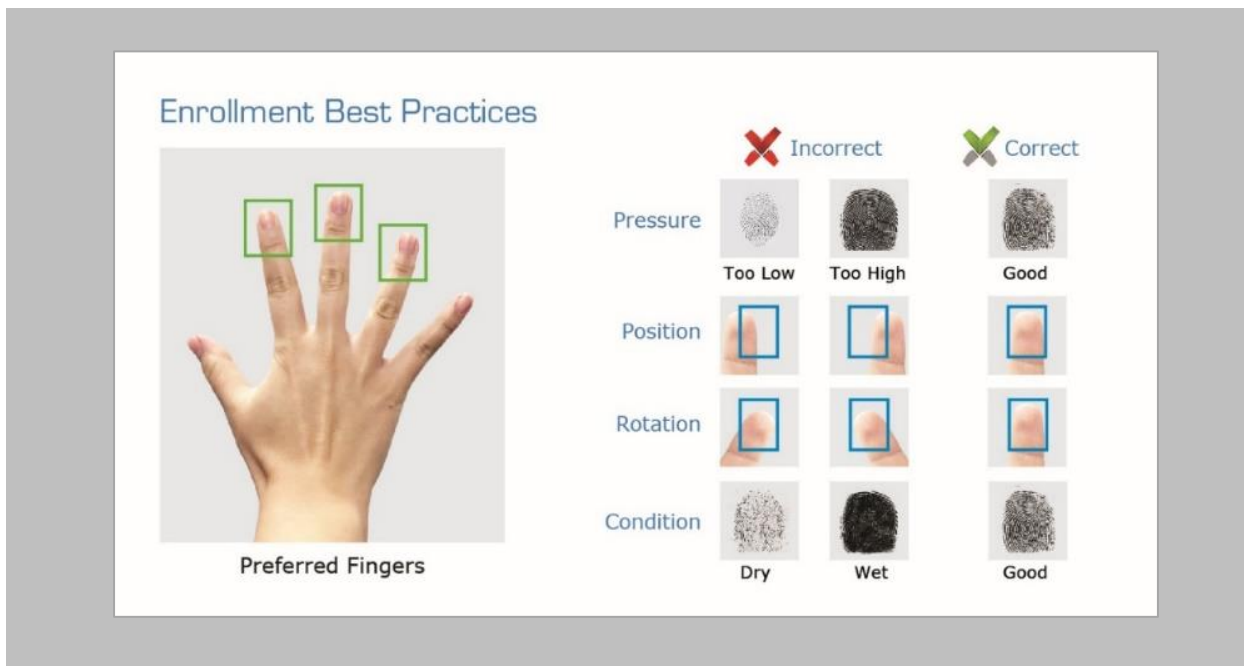


Figure 42: Fingerprint Enrollment Best Practices

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 43: 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.

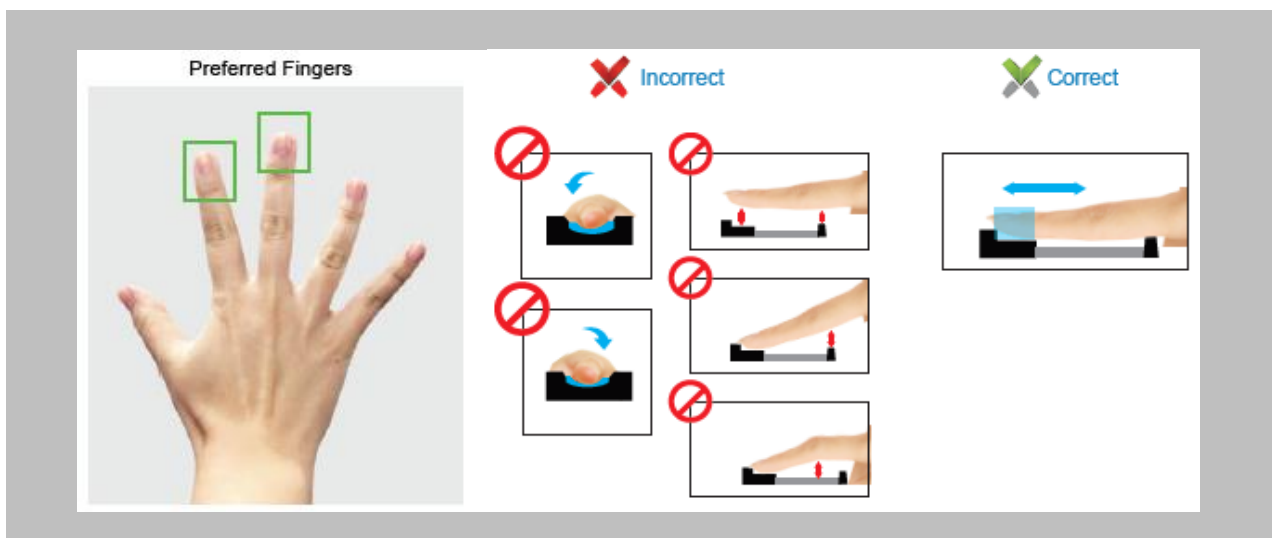


Figure 44: Finger Vein Enrollment Best Practices

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.

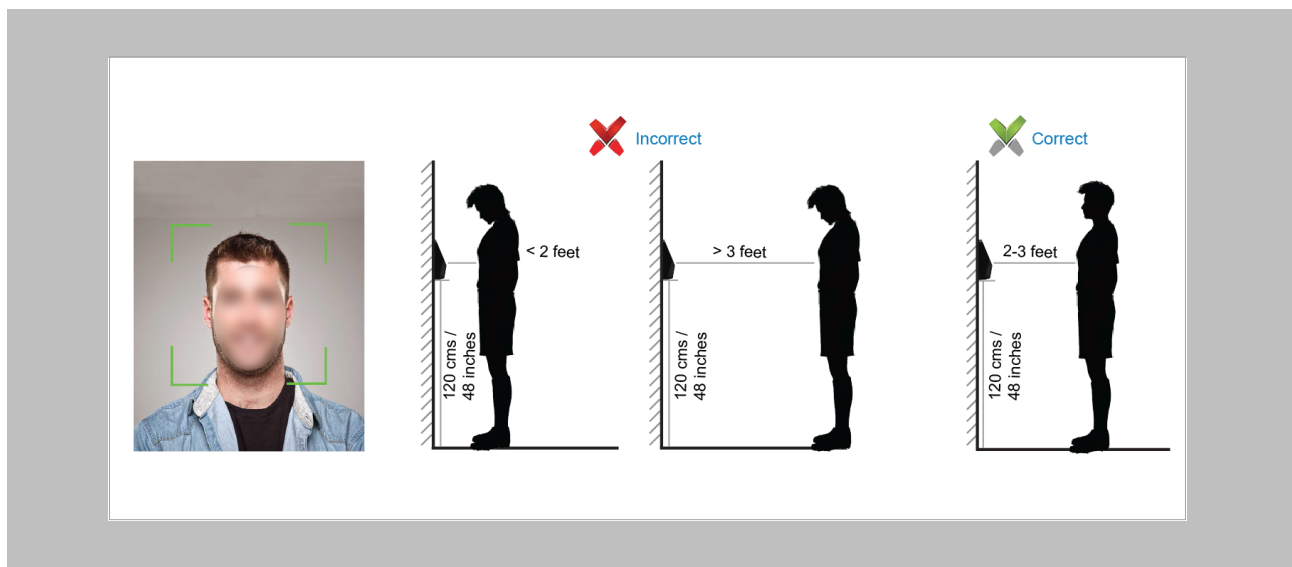


Figure 45: Face Enrollment Best Practices

13. 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](#).

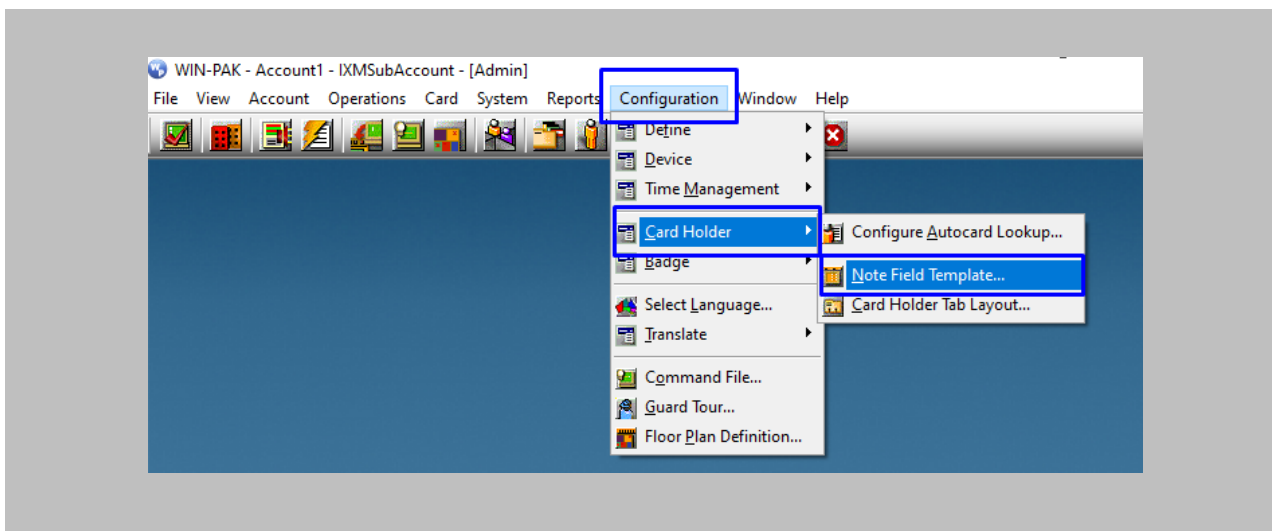


Figure 46: WIN-PAK Note Field Template

STEP 2

On the **Note Field Template** Window click on **Add**.

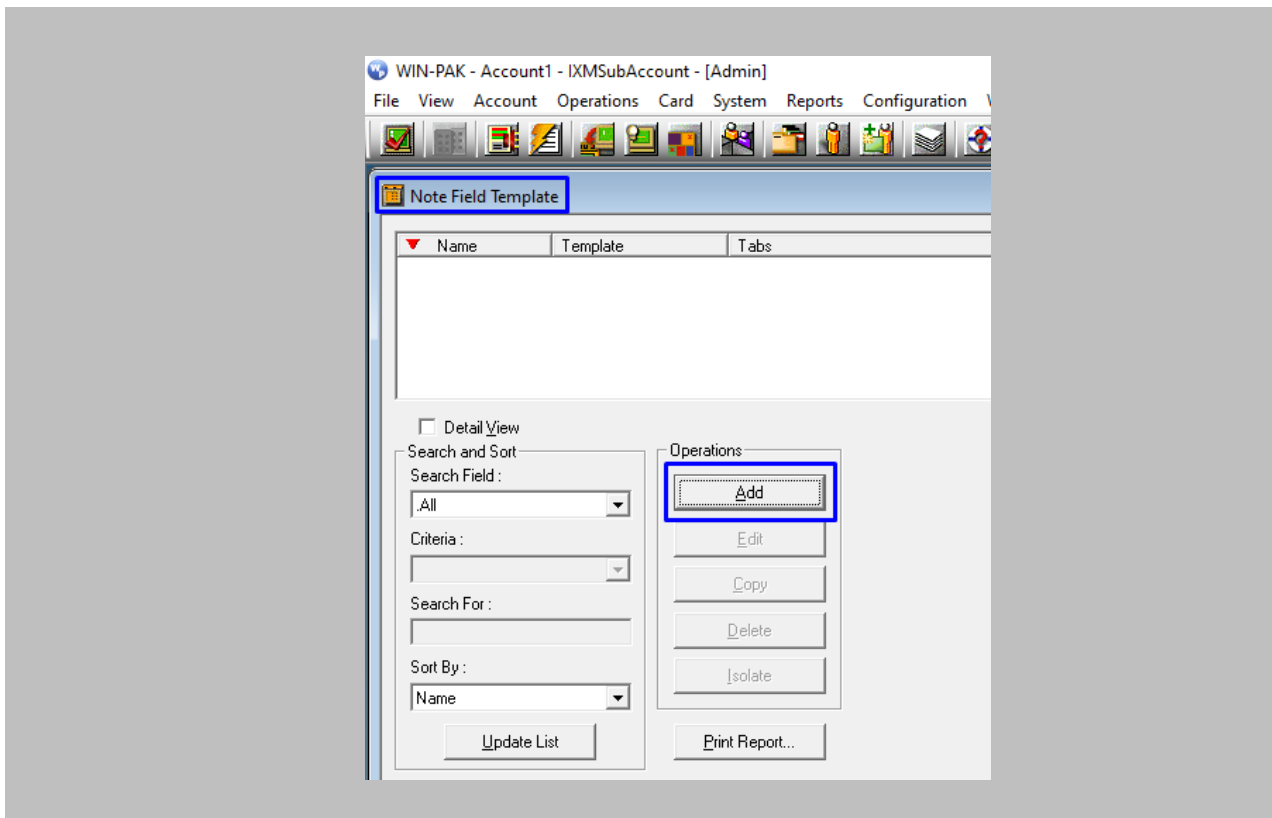


Figure 47: WIN-PAK Add New Note Field

STEP 3

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

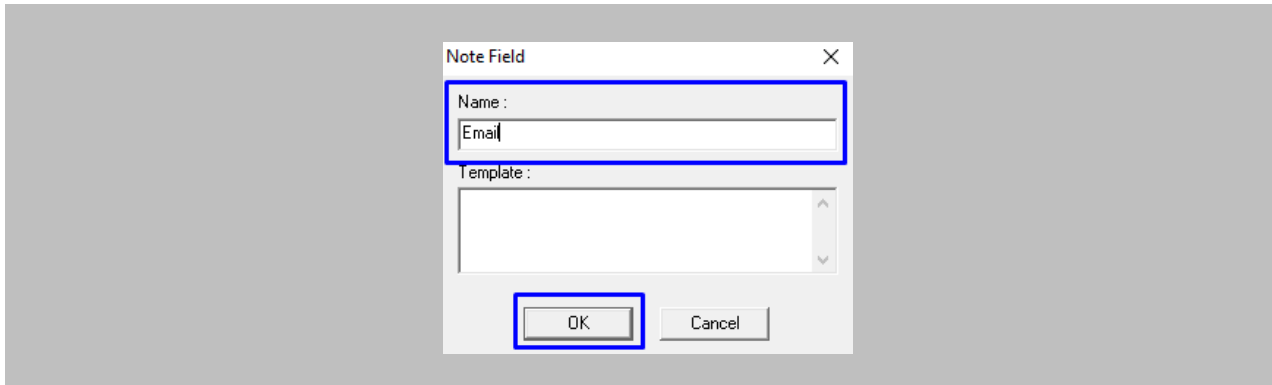


Figure 48: WIN-PAK Create Note Field

STEP 4

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

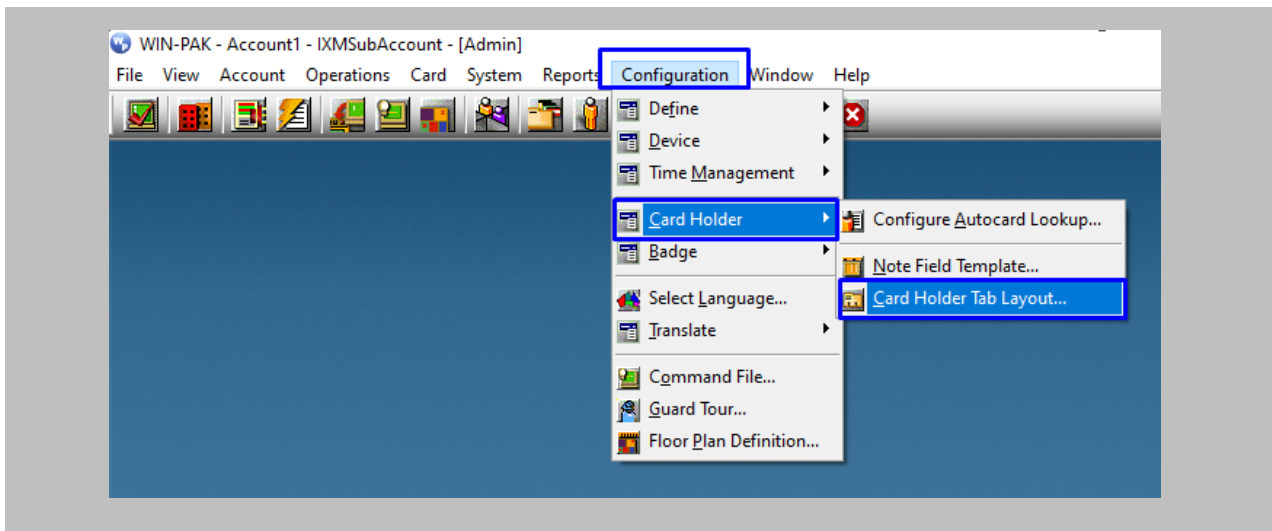


Figure 49: WIN-PAK Card Holder Tab Layout

STEP 5

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

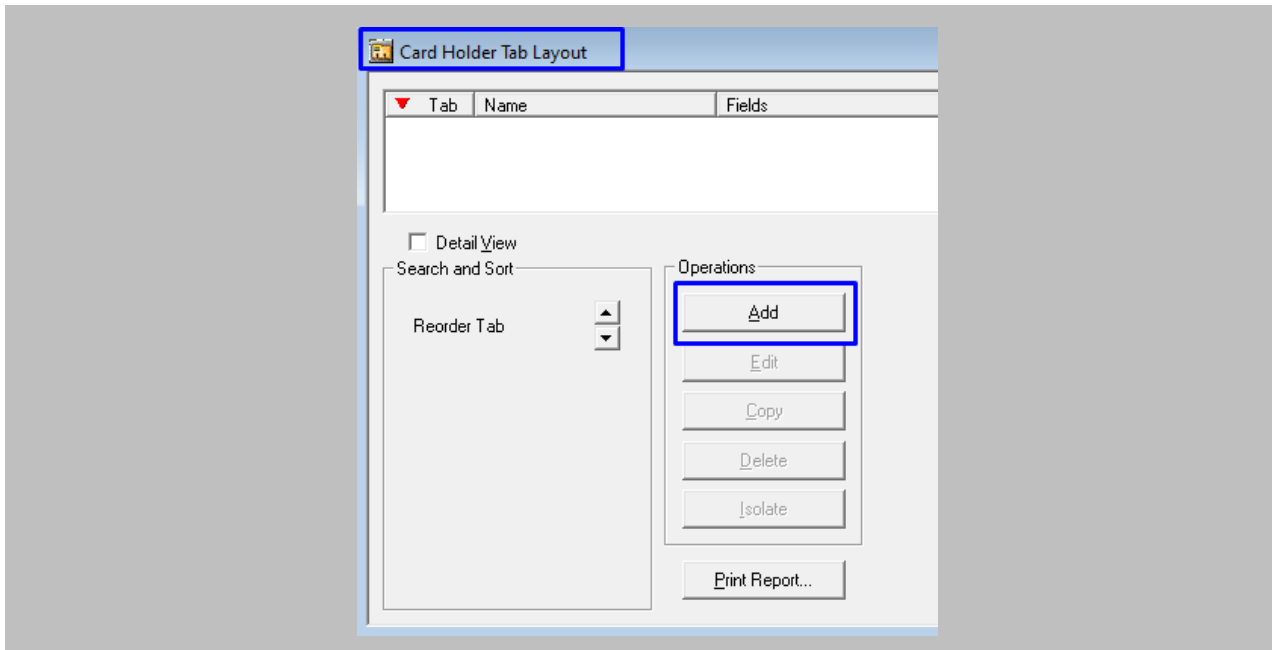


Figure 50: WIN-PAK Add New Card Holder Tab Layout

STEP 6

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

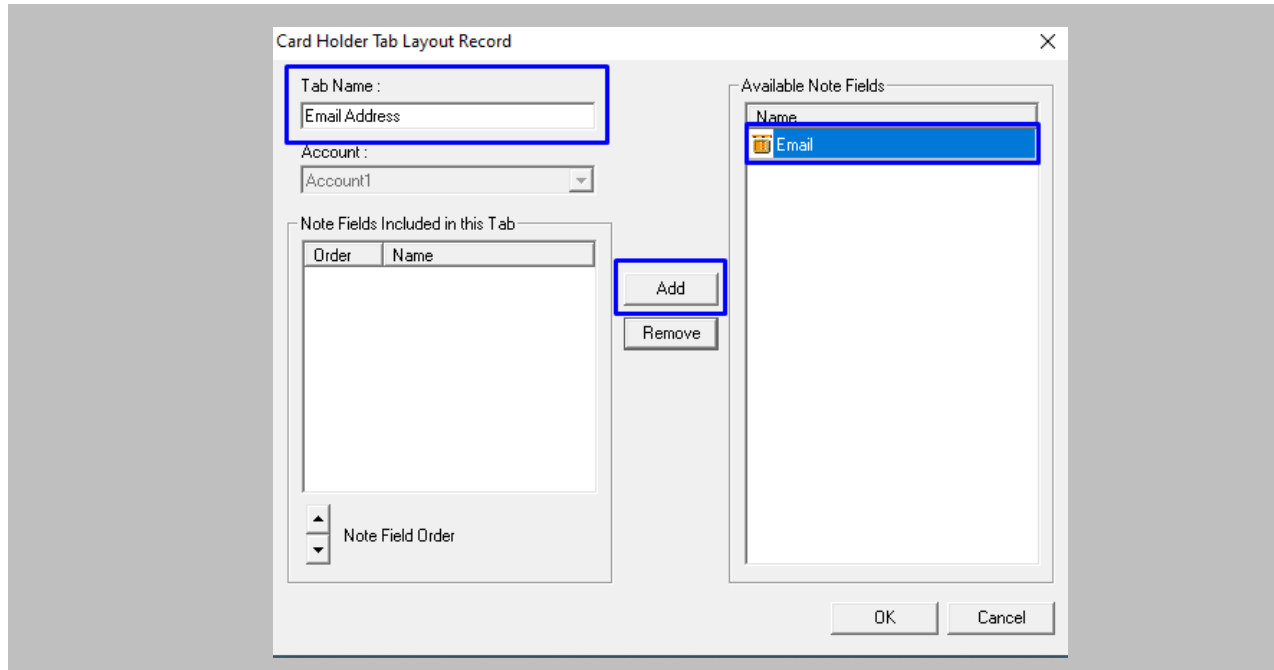


Figure 51: WIN-PAK Add Note Field to Card Holder Tab

STEP 7

Click on **OK**.

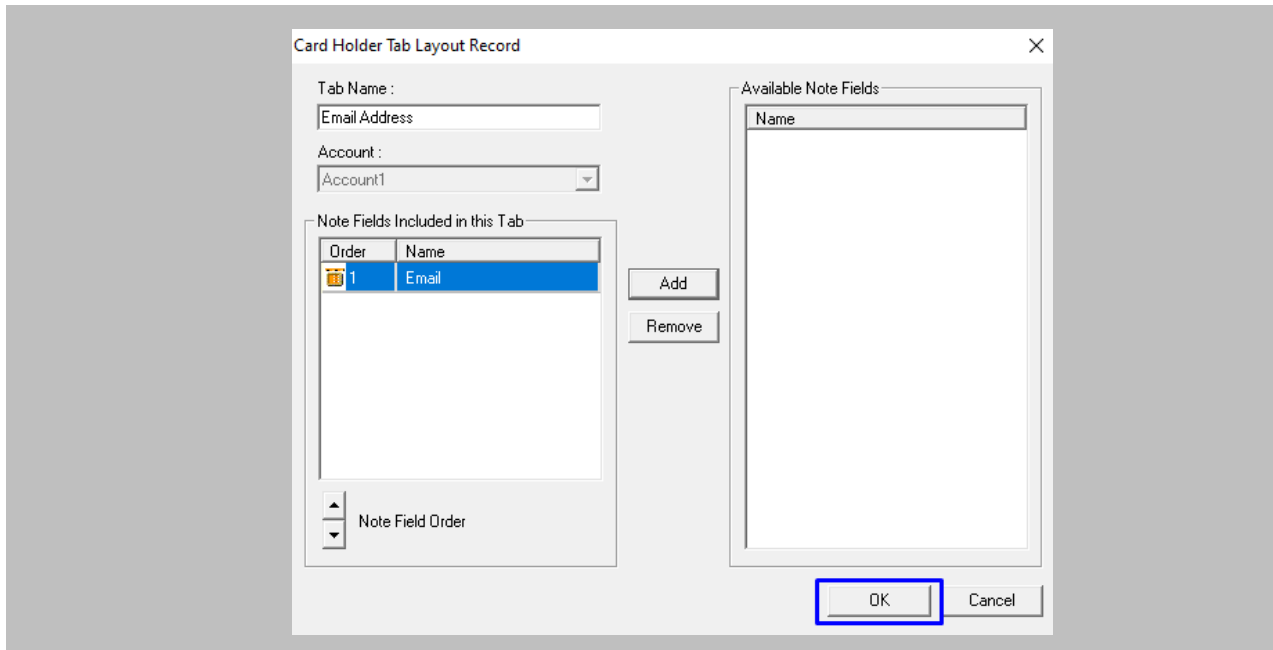


Figure 52: Save Card Holder Tab Layout

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

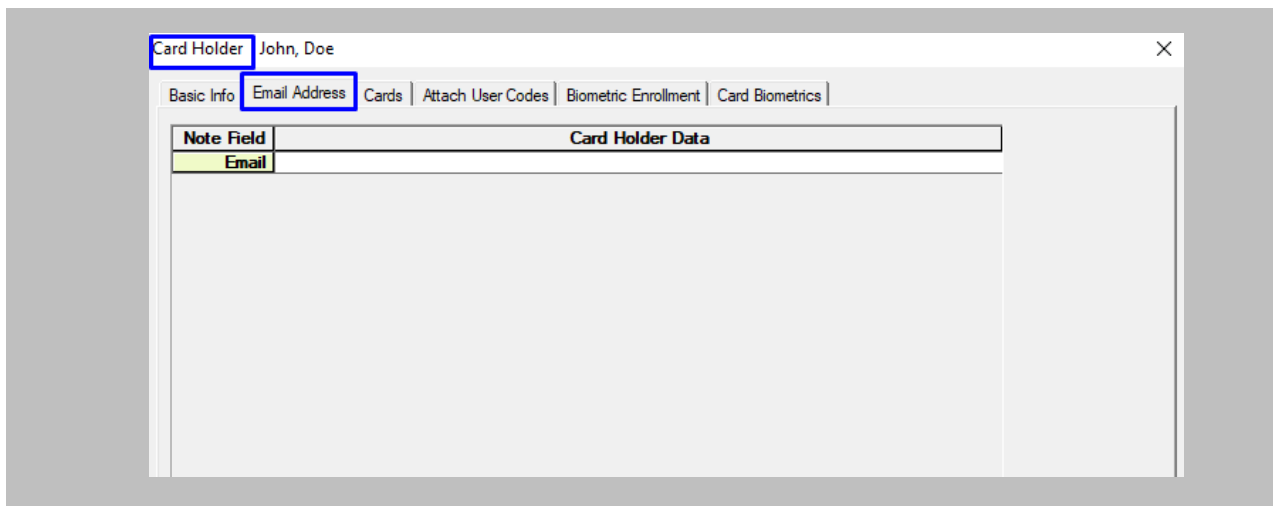


Figure 53: Add Card Holder Window

14. 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**'.

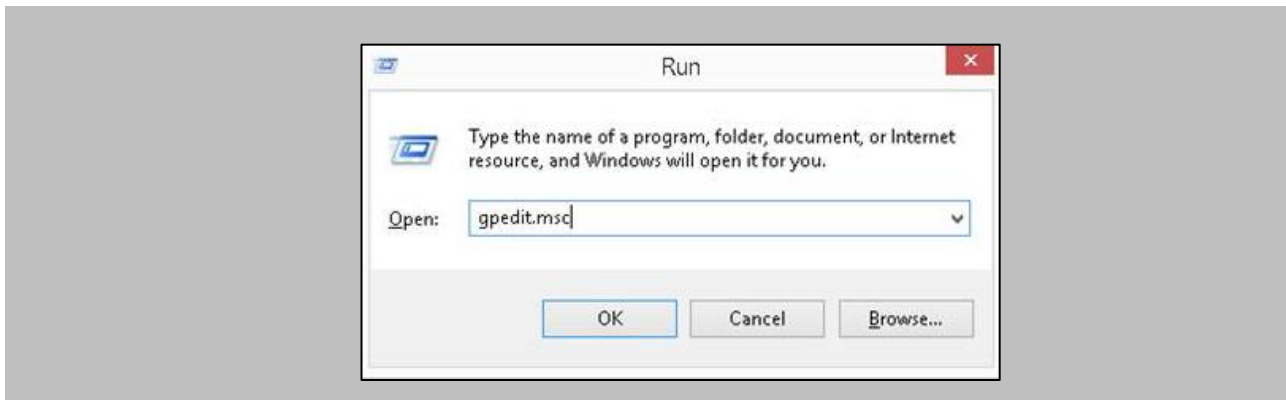


Figure 54: WIN-PAK Open Group Policy Editor

STEP 2

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

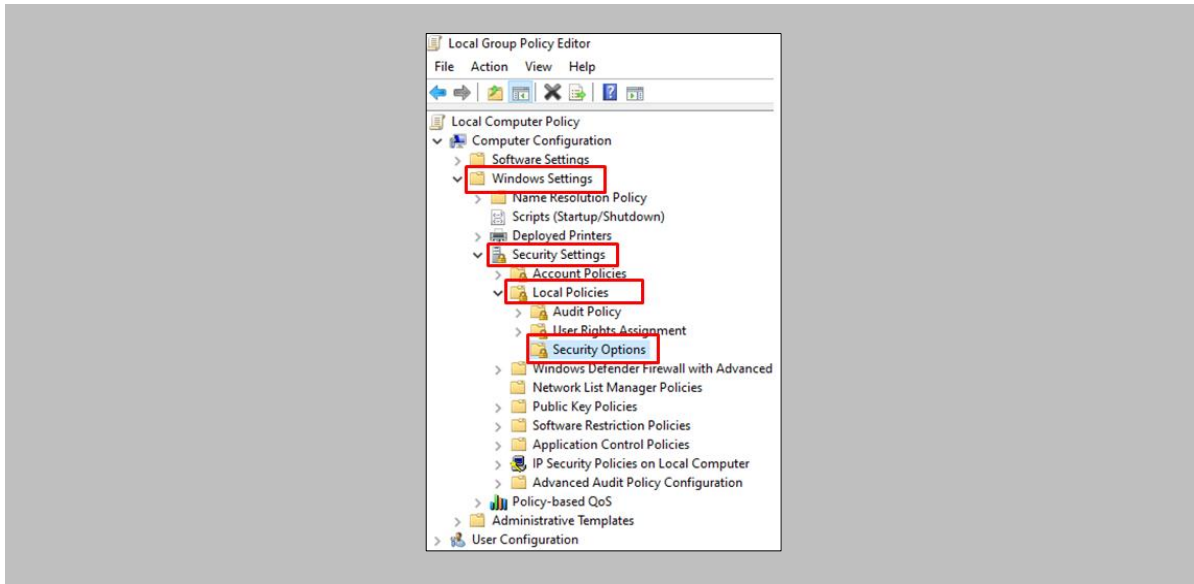


Figure 55: WIN-PAK Security Options

STEP 3

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

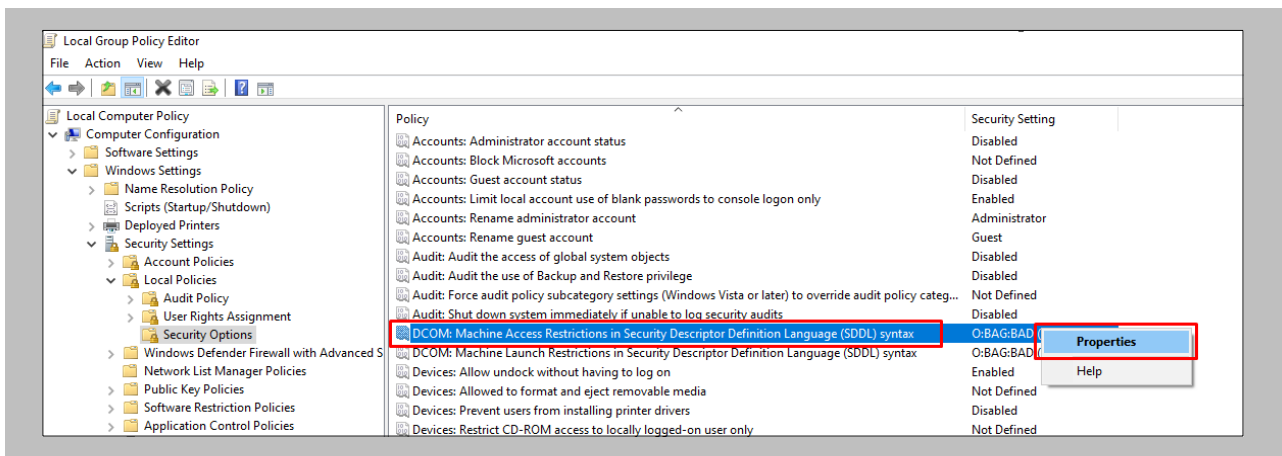


Figure 57: WIN-PAK DCOM SDDL Syntax

STEP 4

Click on **Edit Securities.**

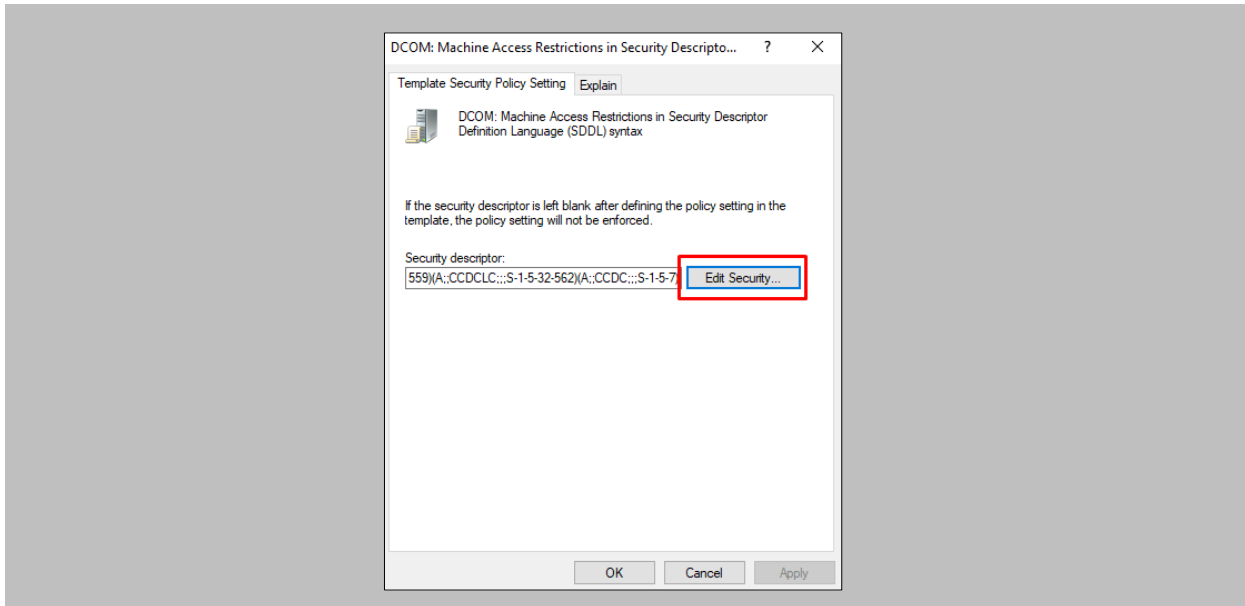


Figure 58: WIN-PAK DCOM Access Restrictions - Edit Securities

STEP 5

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.

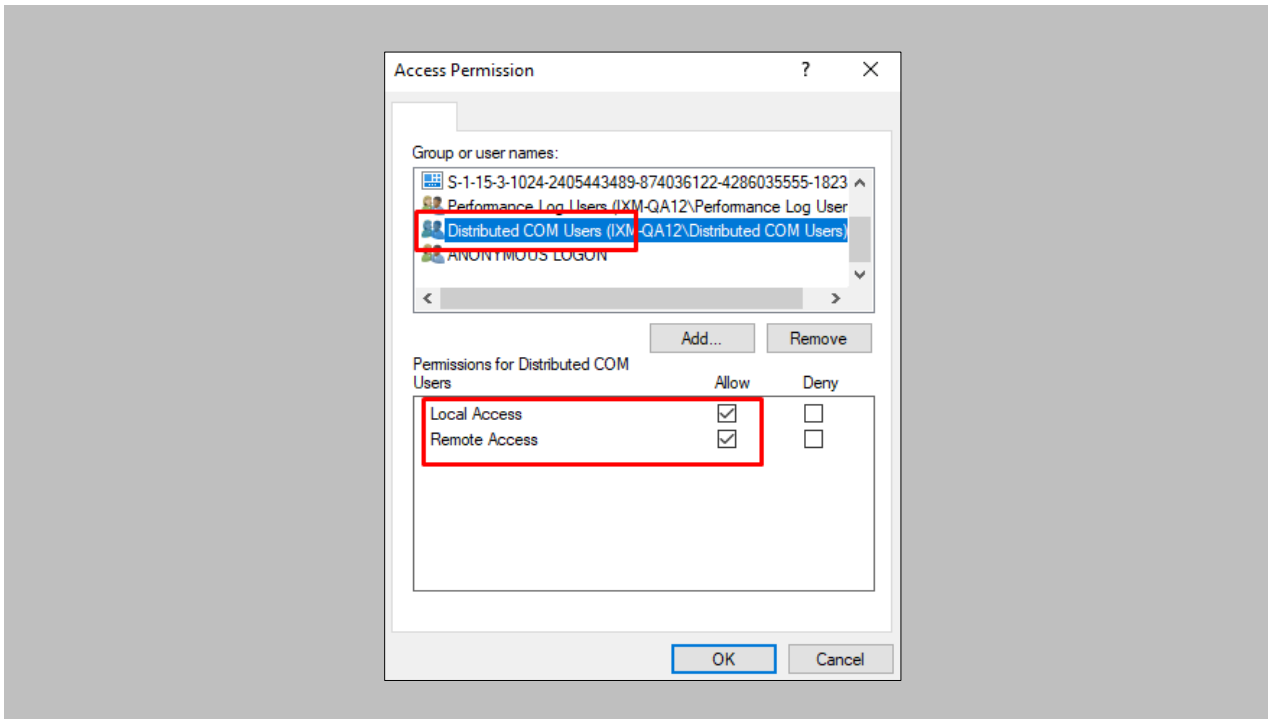


Figure 59: WIN-PAK Access Permissions for DCOM Users

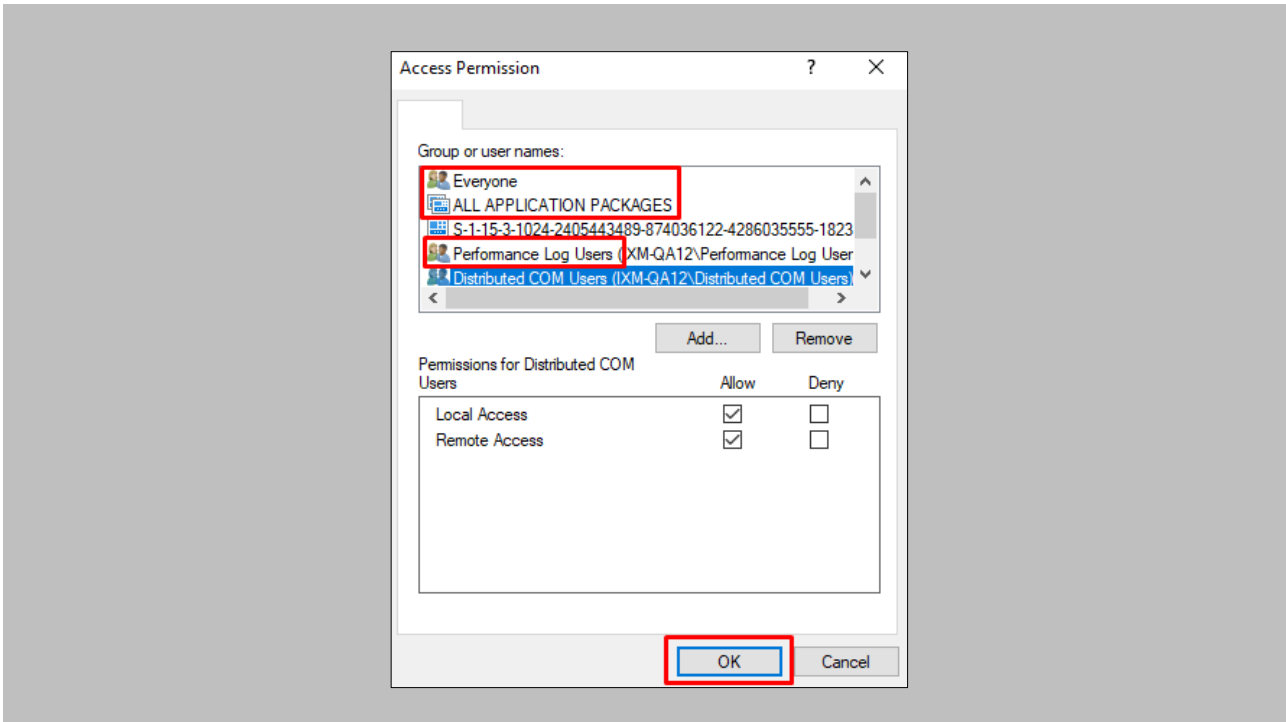


Figure 60: WIN-PAK Access Permissions for Users and Groups

STEP 6

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**.

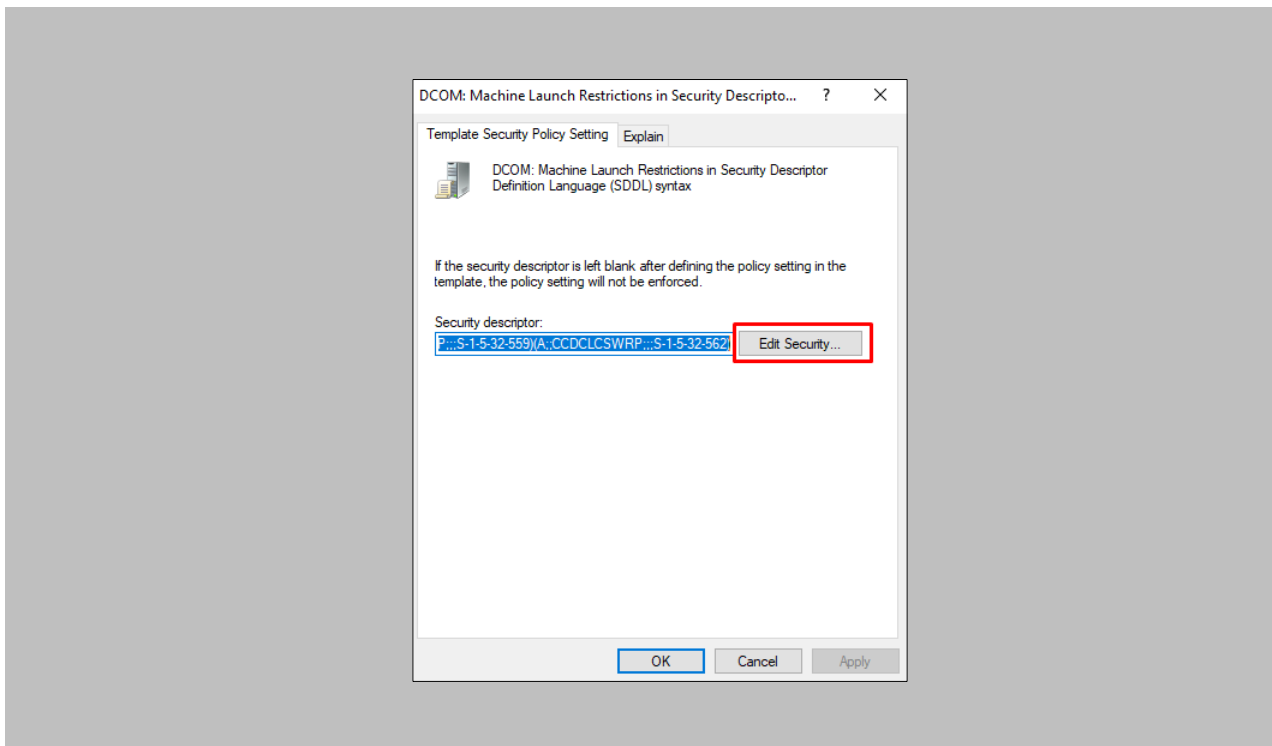


Figure 61: WIN-PAK DCOM Launch Restrictions - Edit Securities

STEP 7

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.

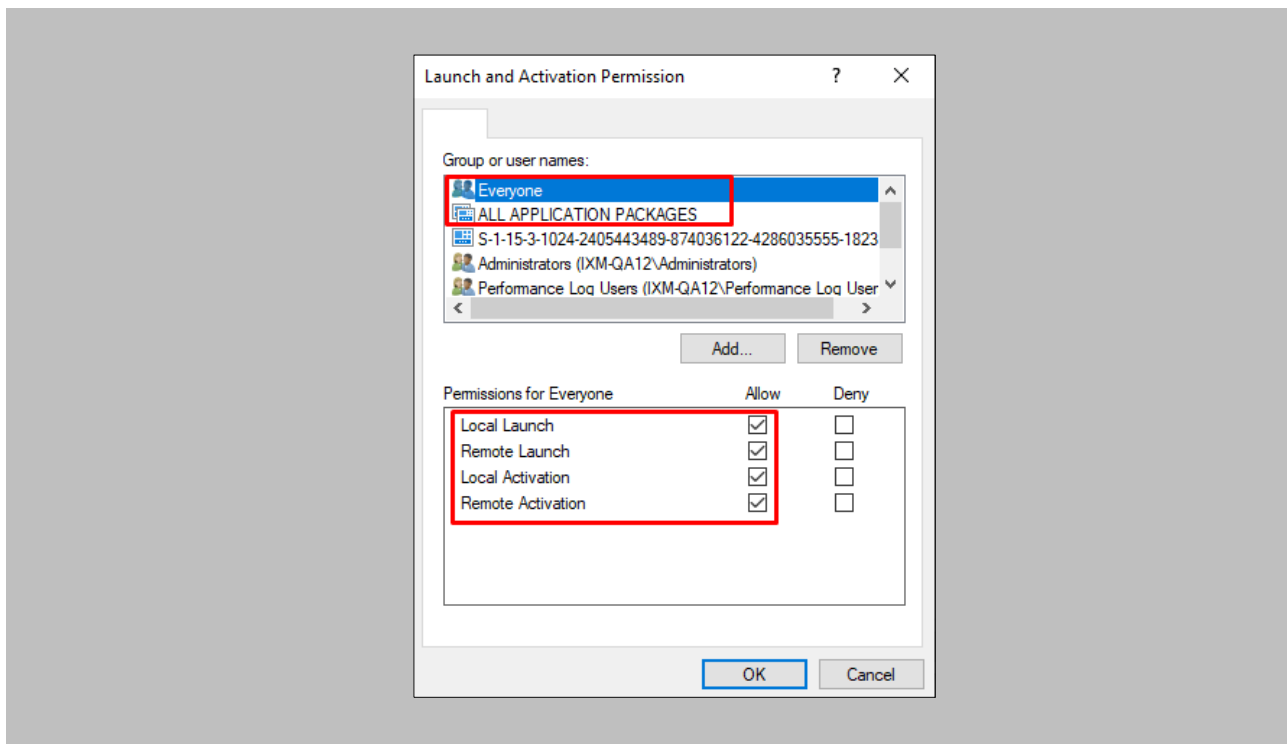


Figure 62: WIN-PAK Launch Permissions for Users and Groups

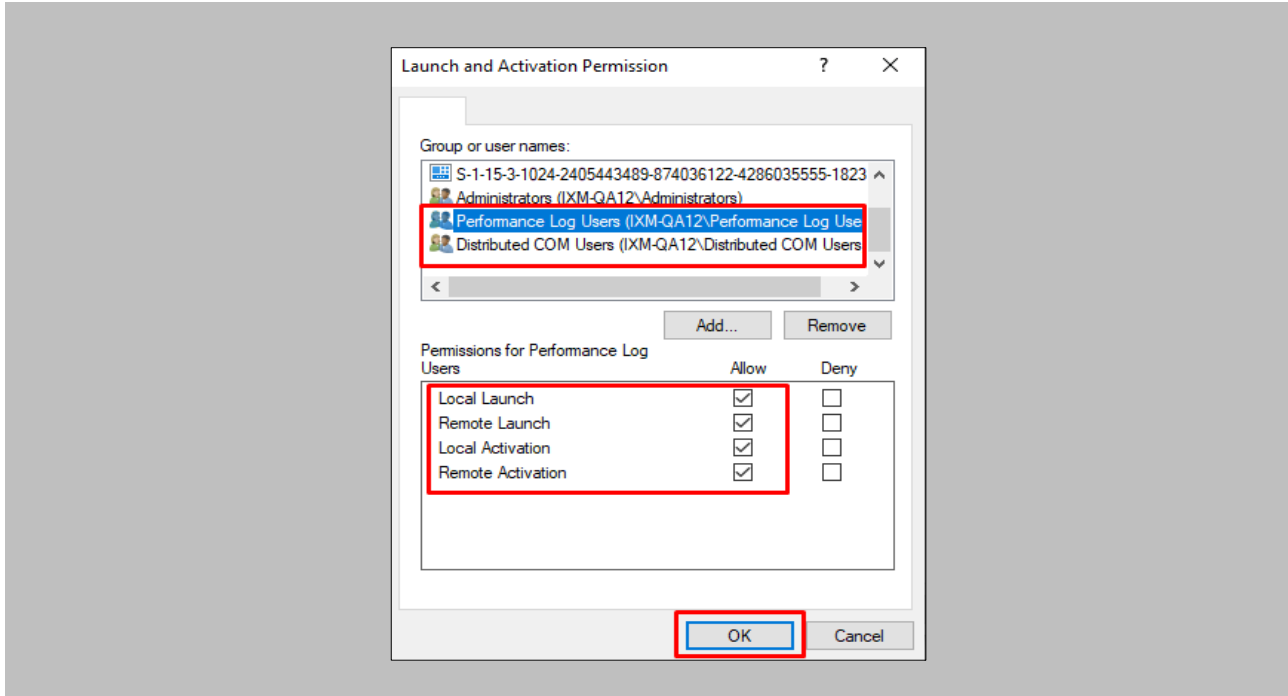


Figure 63: WIN-PAK Launch Permissions for Users

STEP 8

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.

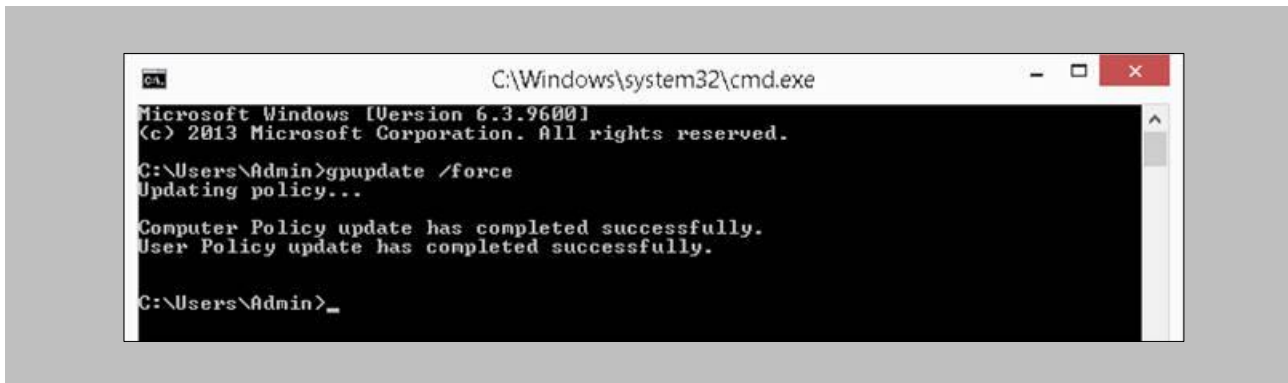


Figure 64: WIN-PAK Group Policy Update

Exporting Proxy from Server Machine

Procedure

STEP 1

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

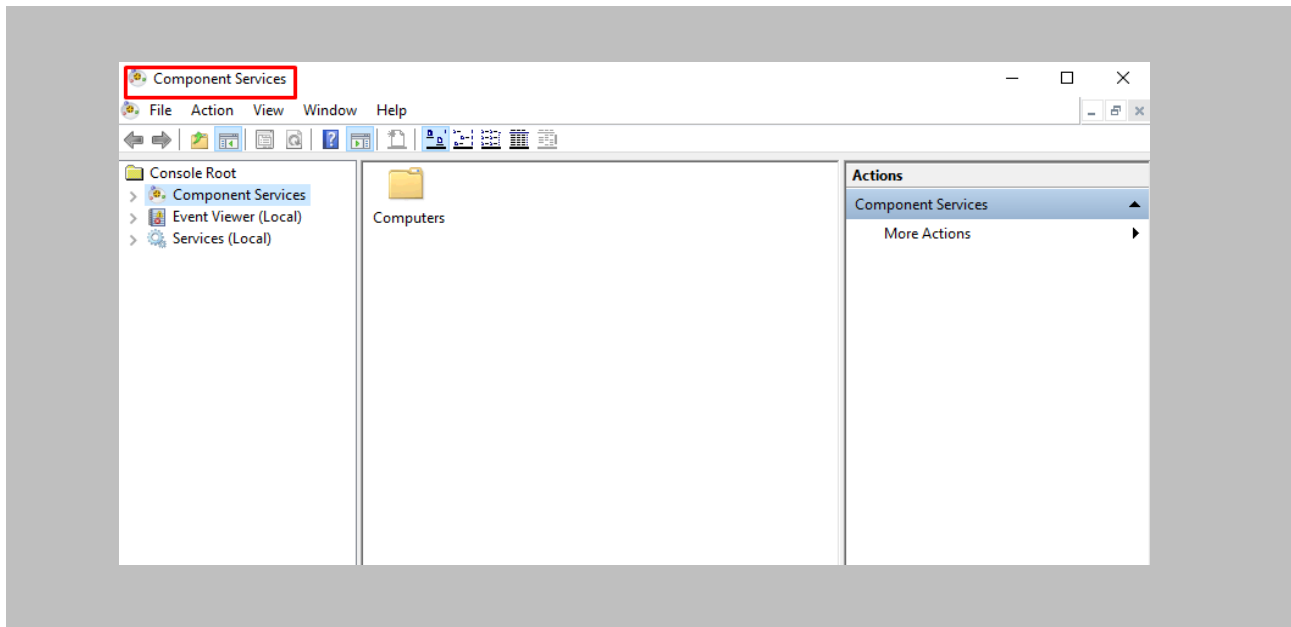


Figure 65: WIN-PAK Component Services

STEP 2

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

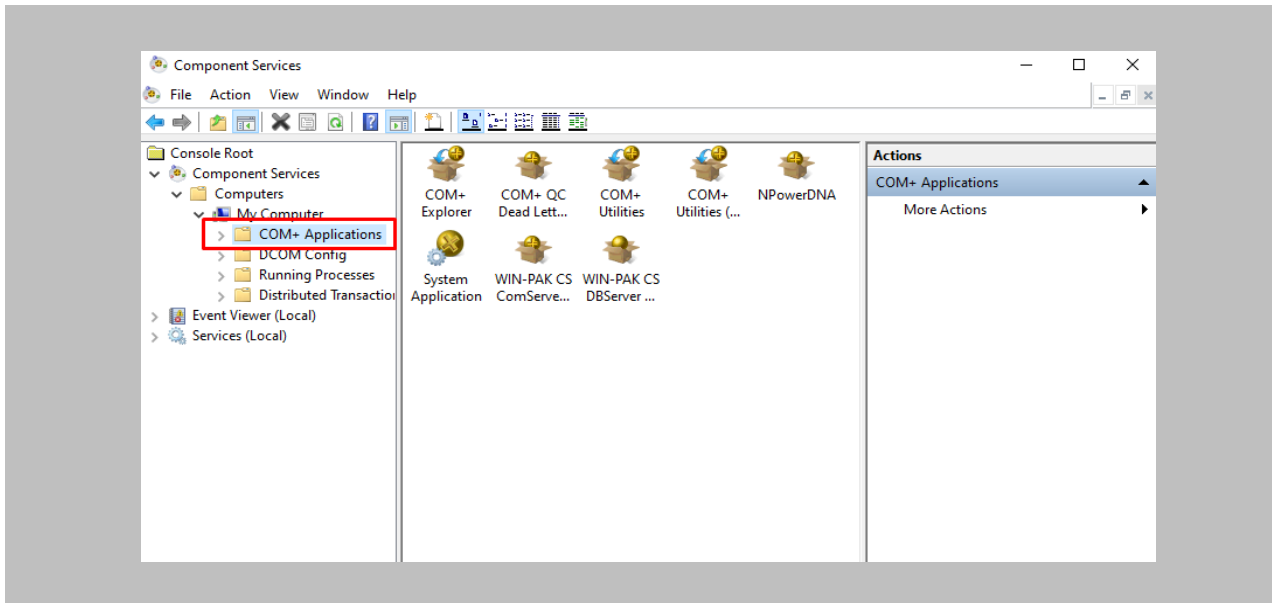


Figure 66: WIN-PAK COM+ Applications

STEP 3

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

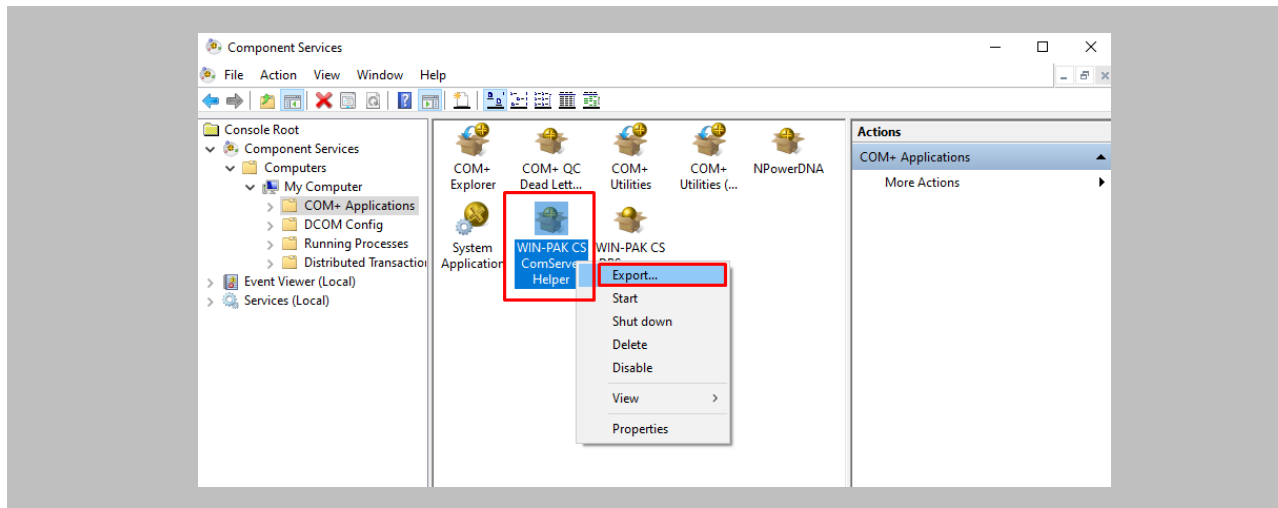


Figure 67: WIN-PAK CS ComServer Helper

STEP 4

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

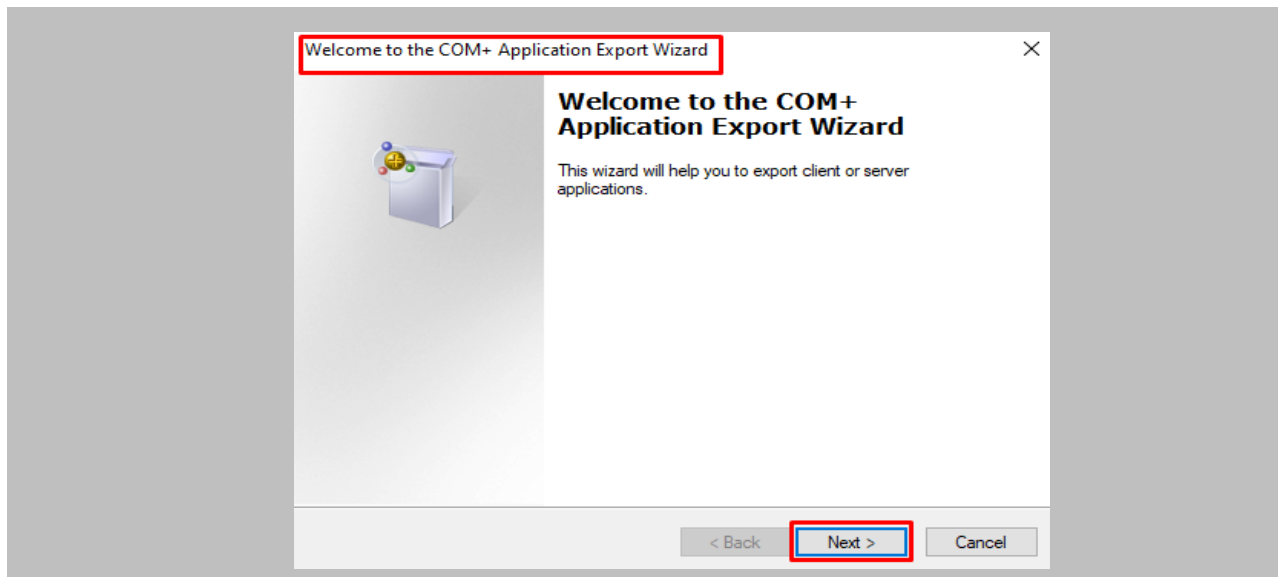


Figure 68: WIN-PAK COM+ Application Export Wizard

STEP 5

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

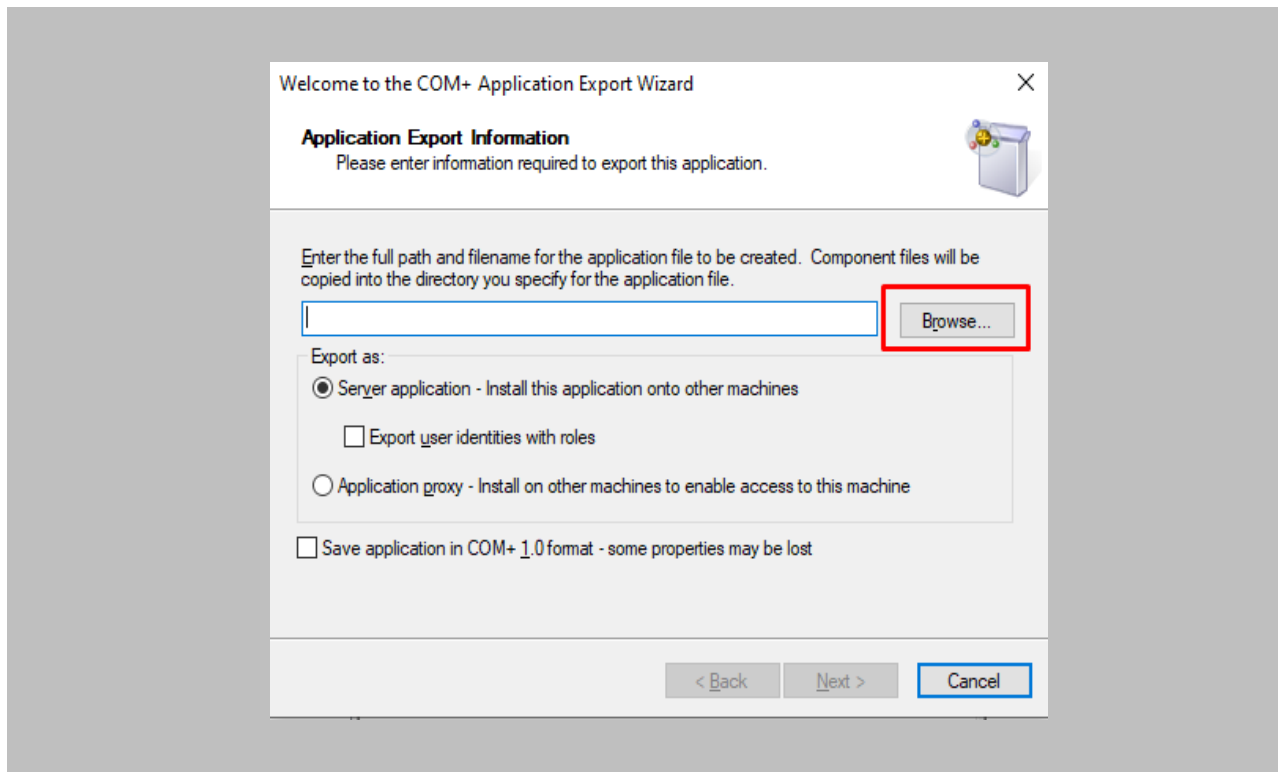


Figure 69: WIN-PAK Browse

STEP 6

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

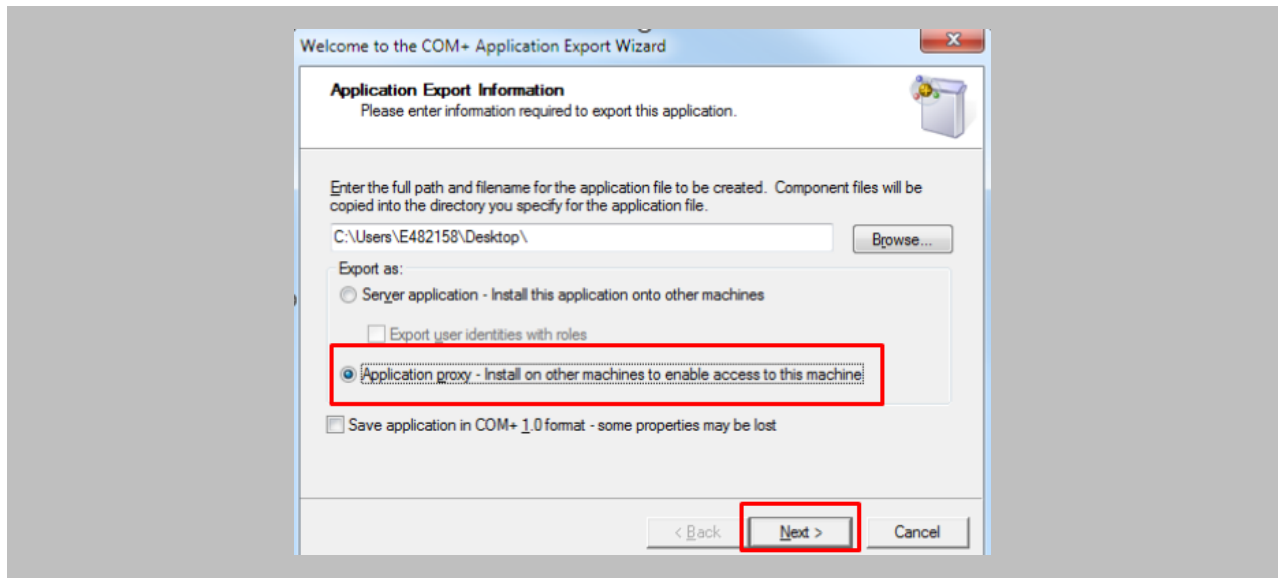


Figure 70: WIN-PAK Export Application Proxy

STEP 7

Click on **Finish**.

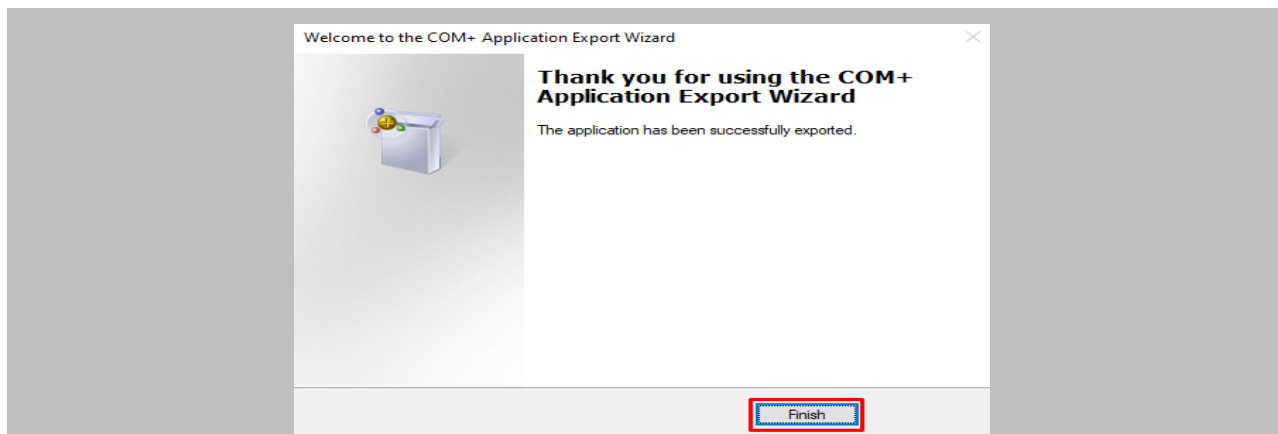


Figure 71: WIN-PAK Finish Exporting

STEP 8

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

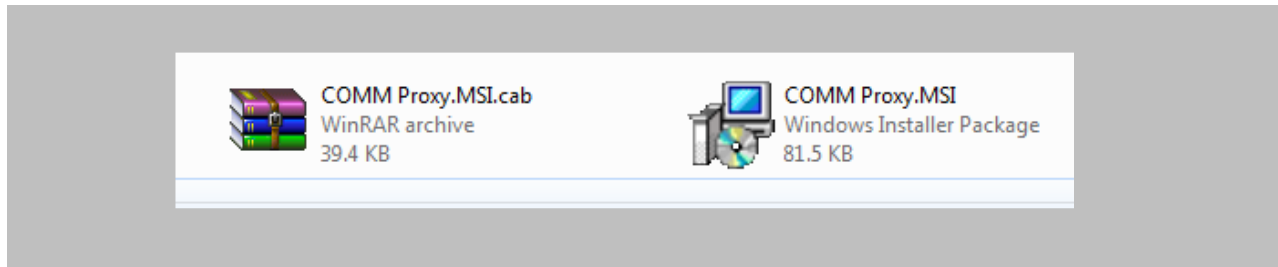


Figure 72: WIN-PAK Communication Server API Setup

STEP 9

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

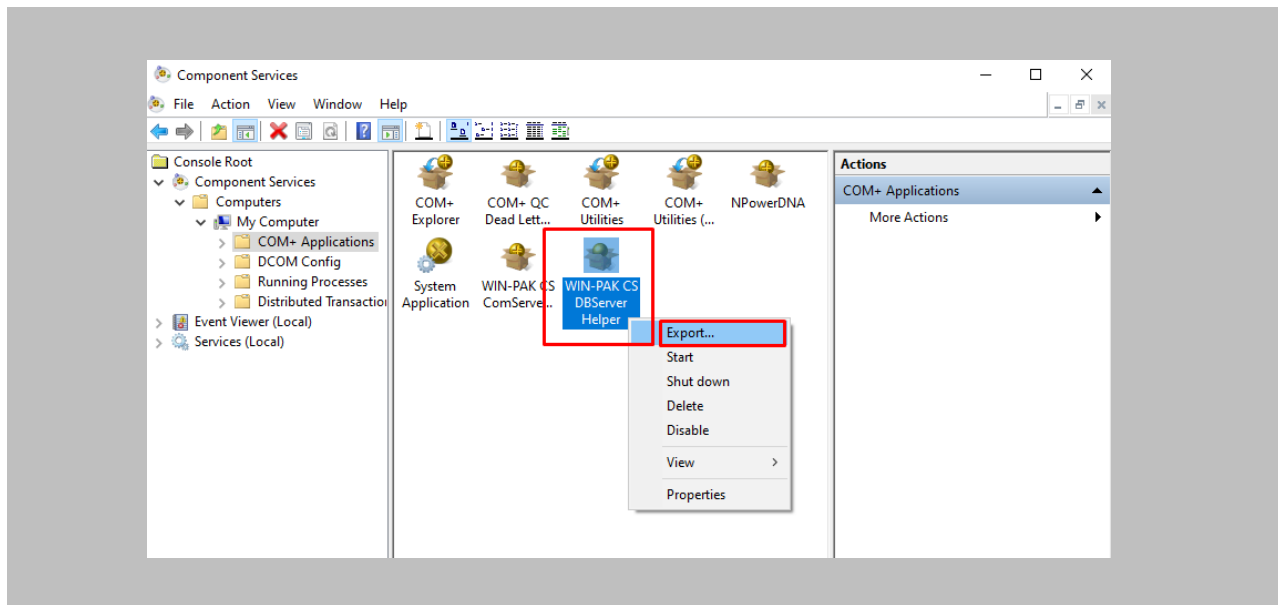


Figure 73: WIN-PAK CS DBServer Helper

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 → Install both the **MSI** files.

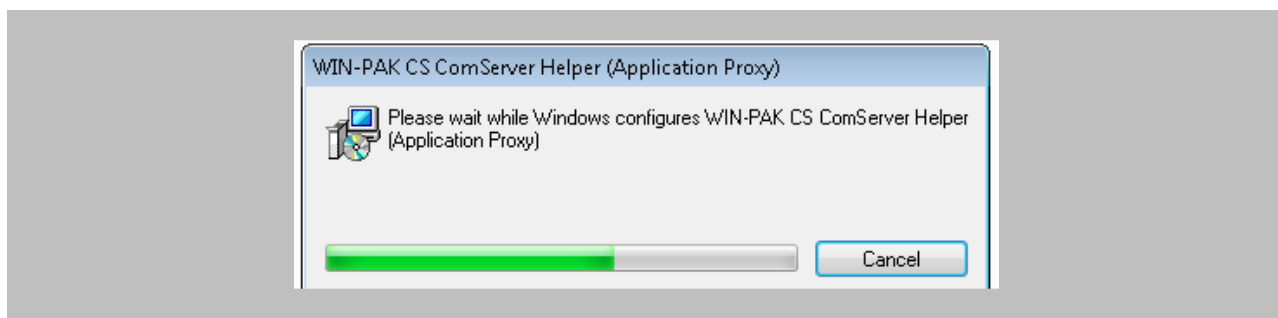


Figure 74: Installation of WIN-PAK CS CommServer Helper

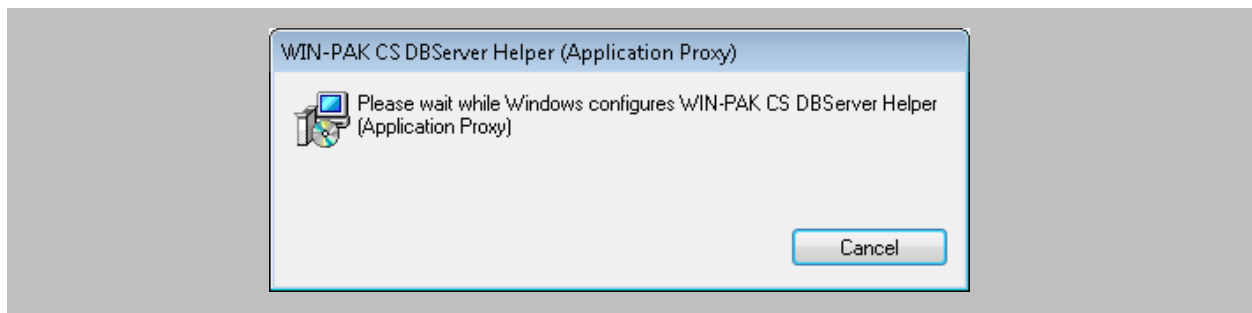


Figure 75: Installation of WIN-PAK CS DBServer Helper

STEP 2

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.

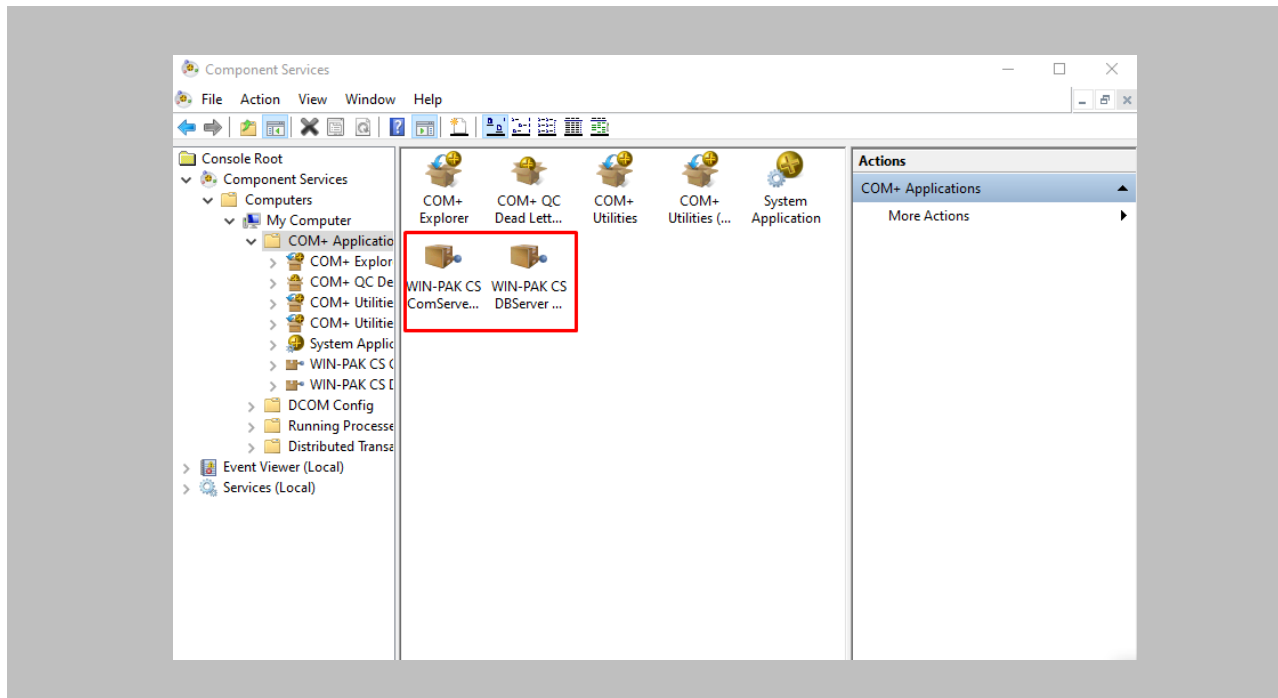


Figure 76: WIN-PAK Client COM+ Applications

15. 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 on the right-hand side.

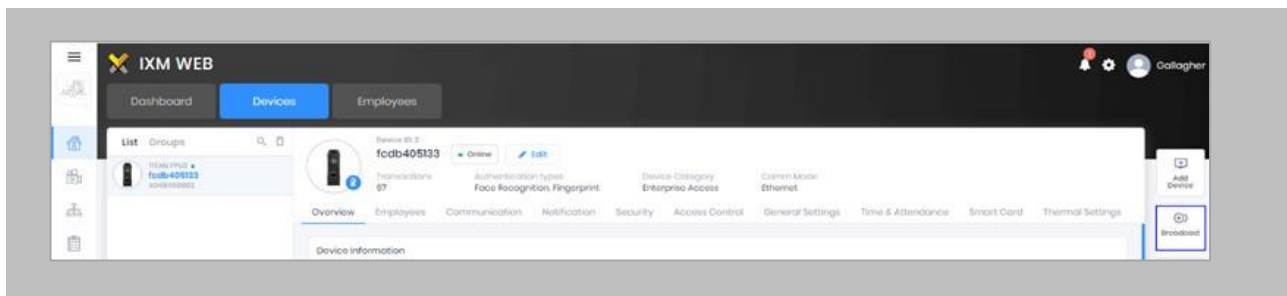


Figure 77: IXM WEB - Broadcast Option

STEP 2

Scroll down to the **Access Control** section and check the **Wiegand Output** option.

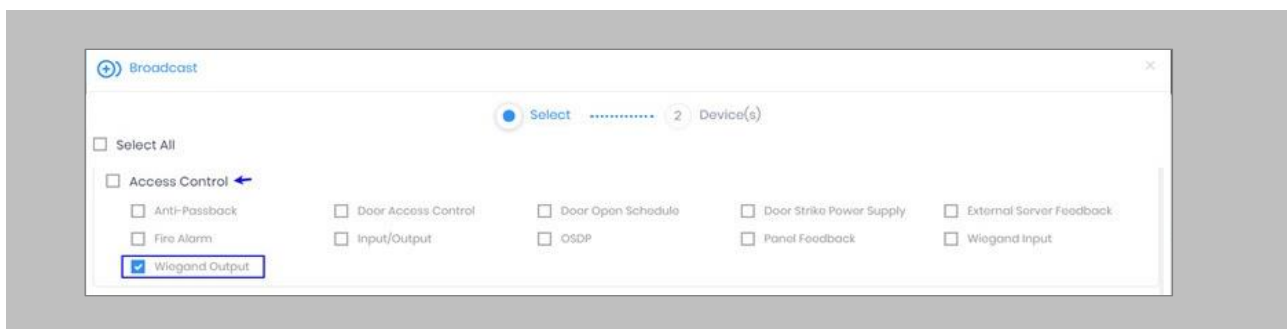


Figure 78: IXM WEB - Wiegand Output Selection in Broadcast

STEP 3

Click **Broadcast**.

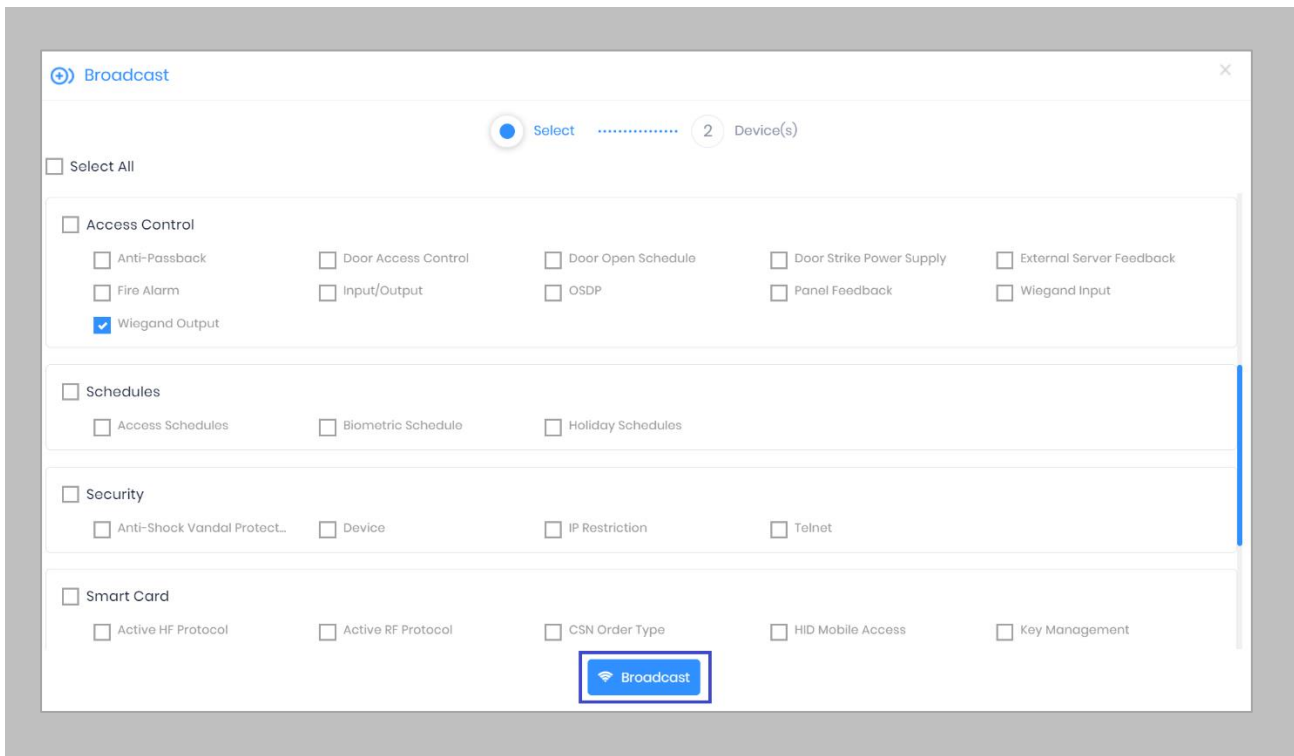


Figure 79: IXM WEB - Broadcast Wiegand Output Settings

STEP 4

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.

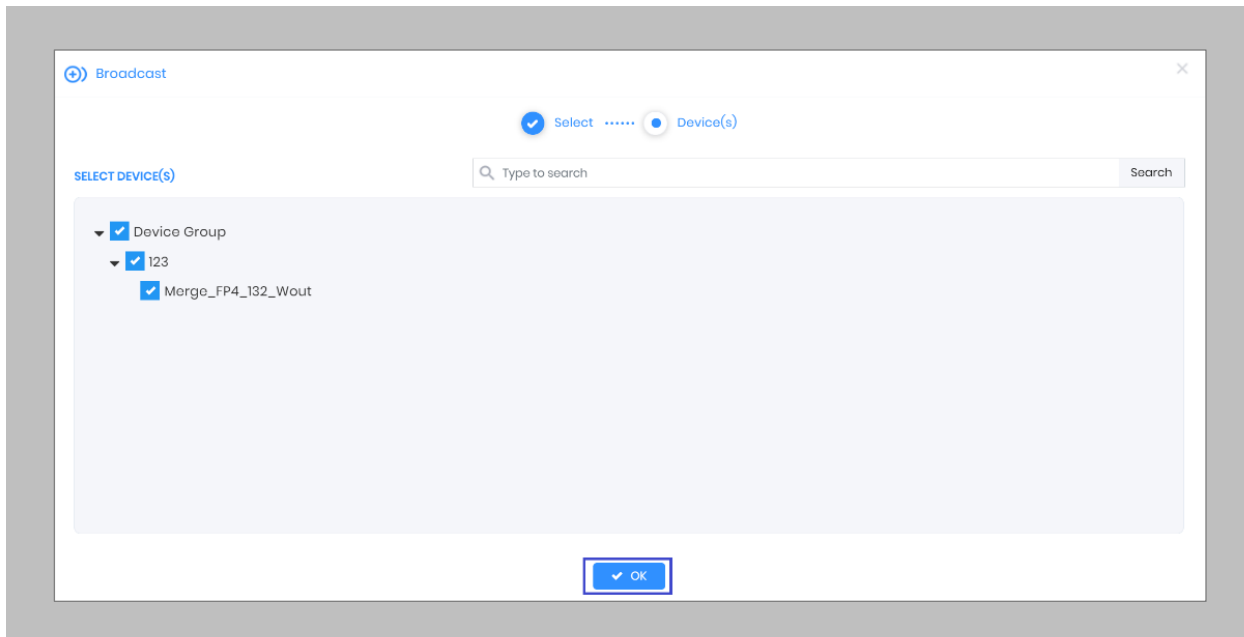


Figure 80: IXM WEB - Broadcast to Devices


STEP 2

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	<p>The OSDP static events for panel feedback and capture pin are:</p> <ul style="list-style-type: none"> Access Granted Access Denied Enter Pin <p>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:</p> <ul style="list-style-type: none"> • 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. <p>Two events, one for the first user and the other for the</p>

	second user will be logged into the Access Control Panel.
On Color/Off Color	<p>The LED color configuration is based on panel events. The value must be the same as the Access Control Panel's value.</p> <p>Options are:</p> <ul style="list-style-type: none"> • Red • Green • Yellow • Blue

Table 5: IXM WEB - OSDP Configuration Options

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

Display OSDP Text	Enables to display OSDP Text.
Display Message	<p>Notification on the device's screen.</p> <p>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.</p> <p>If disable: Displays only the Access Control Panel notification.</p>

Table 6: IXM WEB - OSDP Text Options

STEP 3

Click **Apply** to save the settings.

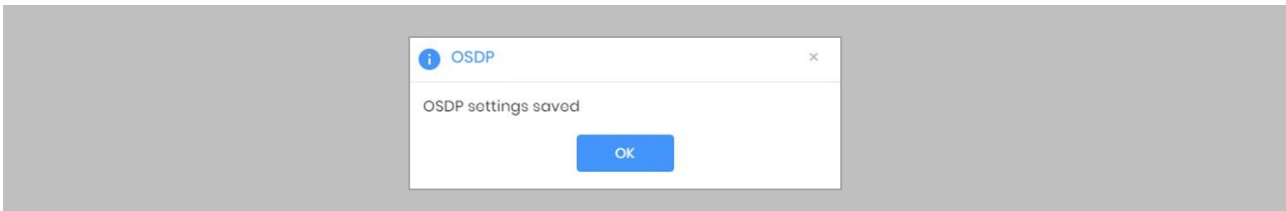


Figure 82: IXM WEB - Save OSDP Settings

Wiring and Termination

Procedure

Earth Ground

For protection against ESD, Invixium recommends the use of a ground connection between each Invixium device to a 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.

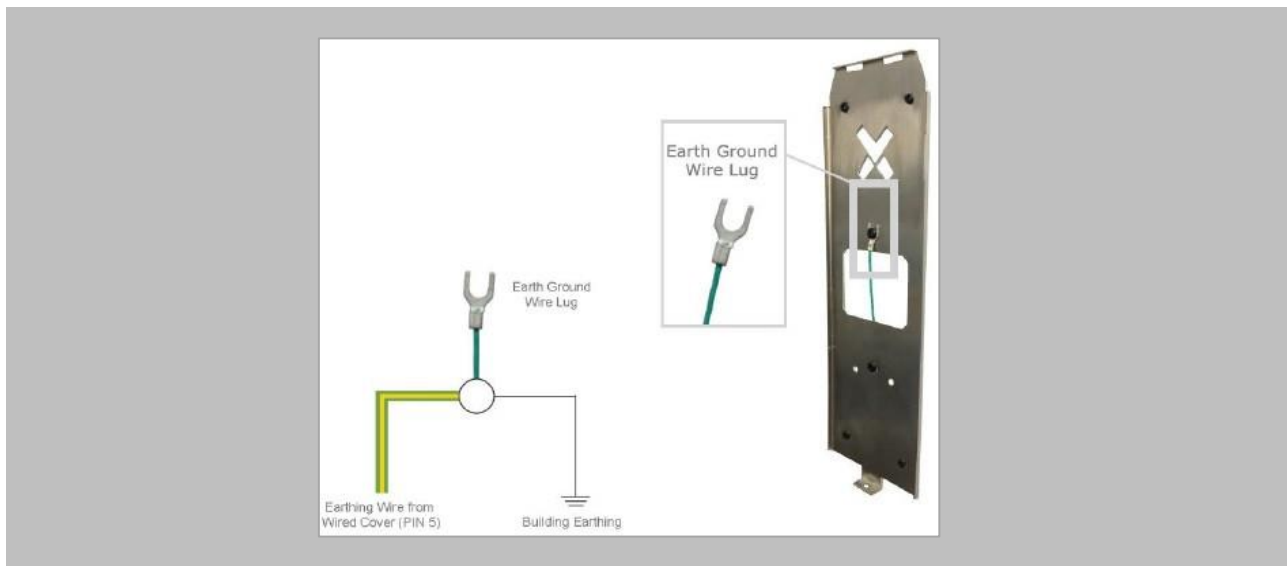


Figure 83: Earth Ground Wiring

Wiring

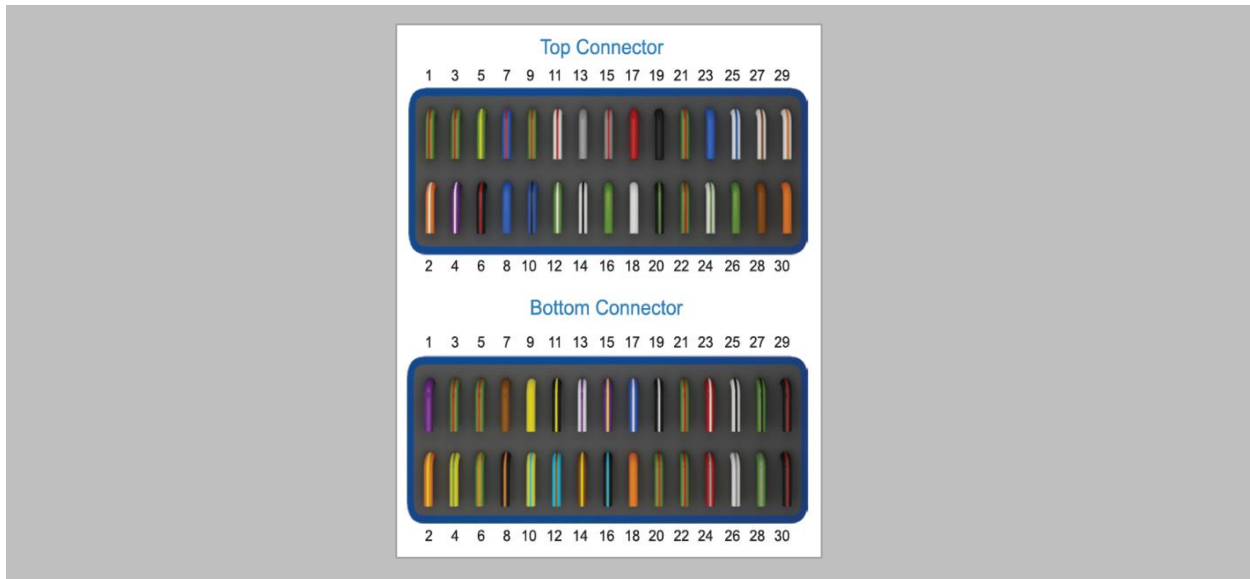


Figure 84: IXM TITAN – Top & Bottom Connector Wiring

Get Wired Top Connector

Wire Color	Wire	Label	Pin(s)	Wire Color	Wire	Label	Pin(s)
Green/Red		RESERVED	1	Green		WDATA_OUT0	16
Orange/White		RS232_RX	2	Red		V_INPUT+	17
Green/Red		RESERVED	3	White		WDATA_OUT1	18
Purple/White		RS232_TX	4	Black		V_INPUT-	19
Green/Yellow		EGND	5	Black/Green		WGND	20
Black/Red		SGND	6	Green/Red		RESERVED	21
Blue/Red		RS485_T	7	Green/Red		RESERVED	22
Blue		RS485_D+	8	RJ 45 Receptacle		TCP/IP	23-30
Green/Red		RESERVED	9	POWER			
Blue/Black		RS485_D-	10	Wiegand			
White/Red		RLY_NC	11	OSDP			
Green/White		WDATA_IN0	12				
Grey		RLY_COM	13				
White/Black		WDATA_IN1	14				
Grey/Red		RLY_NO	15				

Get Wired Bottom Connector

Wire Color	Wire	Label	Pin(s)	Wire Color	Wire	Label	Pin(s)
Purple		DAC_SUPPLY	1	Black/Cyan		SPI_GND	16
Orange/Yellow		SPO1	2	Blue/White		DAC_IN3	17
Green/Red		RESERVED	3	Orange		DAC_OUT	18
Yellow/Green		SPO2	4	Black/White		DAC_IN_GND	19
Green/Red		RESERVED	5	Green/Red		RESERVED	20
Green/Orange		SPO3	6	Green/Red		RESERVED	21
Brown		ACP_LED1	7	Green/Red		RESERVED	22
Black/Orange		SPO_GND	8	Red/White		USB0_VBUS	23
Yellow		ACP_LED2	9	Red/Grey		USB1_VBUS	24
Yellow/Cyan		SPI1	10	White/Black		USB0_D-	25
Black/Yellow		ACP_LED_GND	11	White/Grey		USB1_D-	26
Cyan/Brown		SPI2	12	Green/Black		USB0_D+	27
White/Purple		DAC_IN1	13	Green/Grey		USB1_D+	28
Brown/Yellow		SPI3	14	Black/Red		USB0_GND	29
Purple/Yellow		DAC_IN2	15	Black/Red		USB1_GND	30

Figure 85: 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

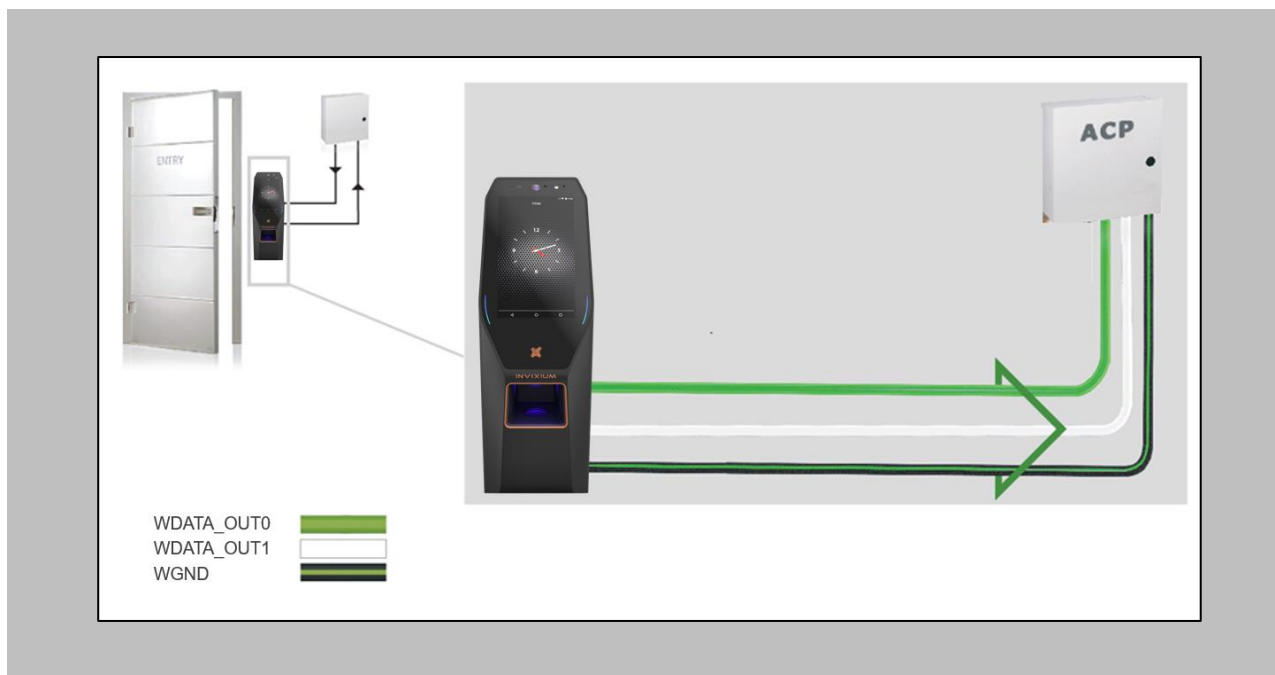



Figure 86: IXM TITAN - Wiegand

 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

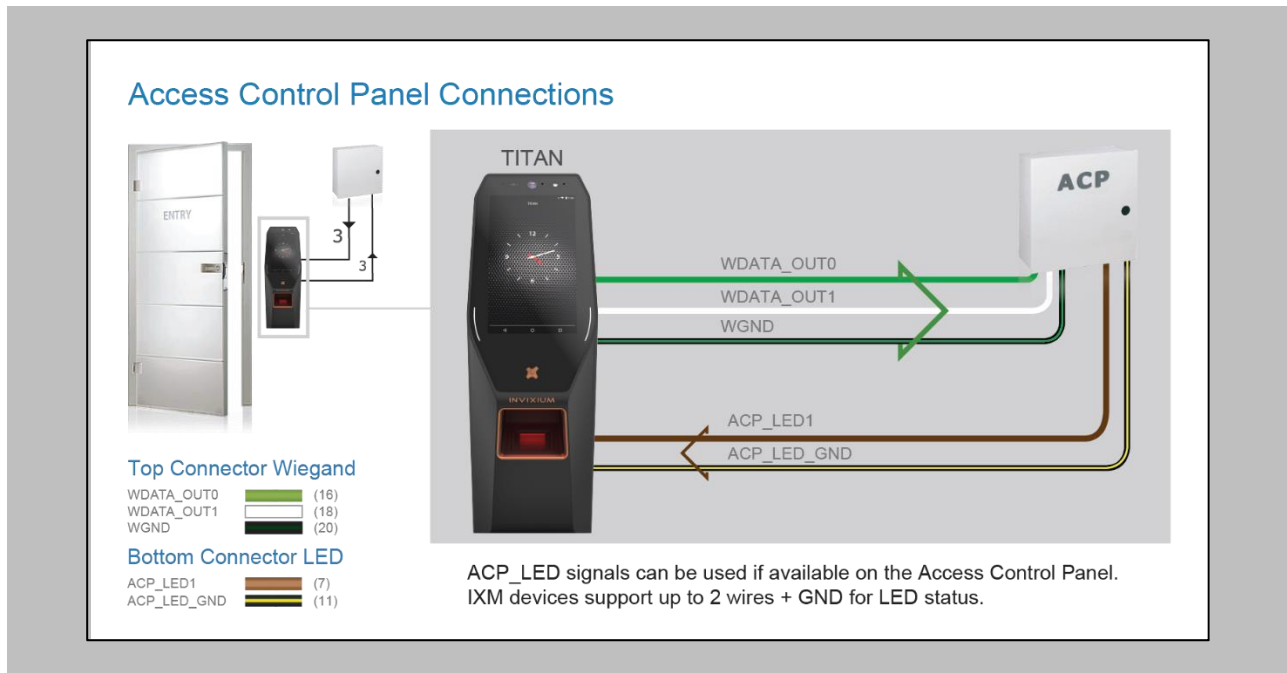



Figure 87: IXM TITAN – Panel Feedback

 Please refer to the INGUIDE document provided for each product on [Invixium.com](https://www.invixium.com) under the **Download** section of the **Products** menu.

OSDP Connections

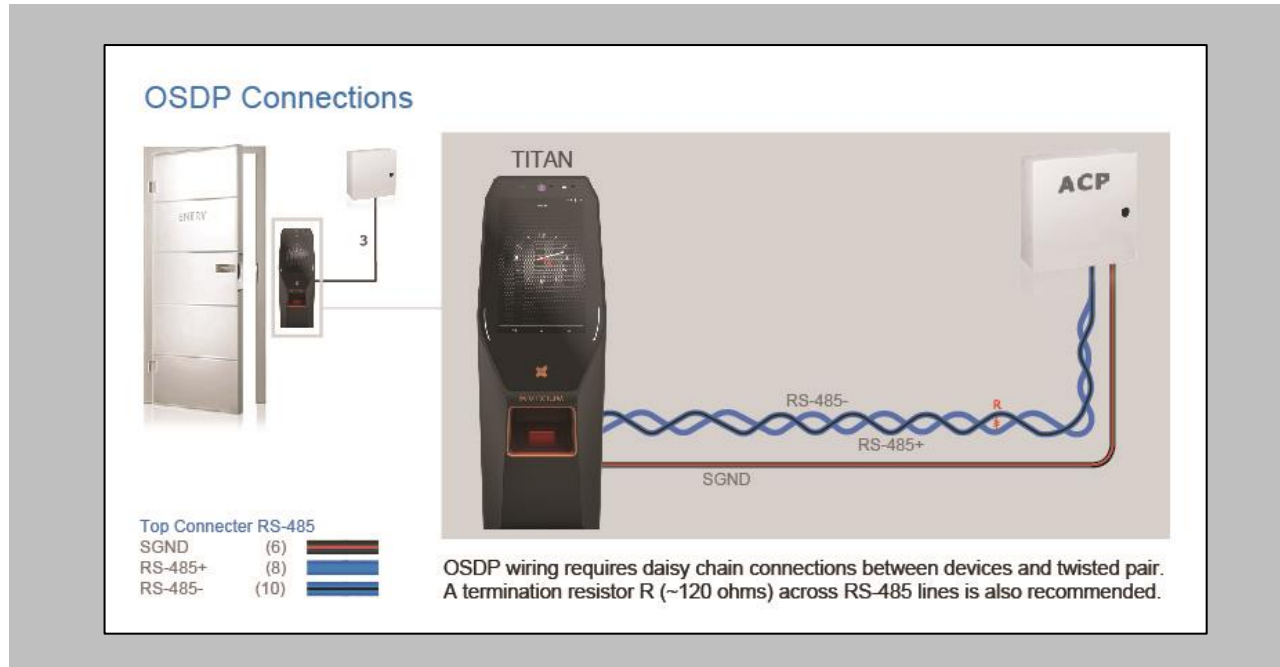




Figure 88: IXM TITAN – OSDP Connections

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

15. Troubleshooting

Reader Offline from IXM Web Dashboard

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

Procedure

STEP 1

From [Home](#), click the [Devices](#) tab.

STEP 2

[Select](#) any device.

STEP 3

Navigate to the [Communication](#) tab.

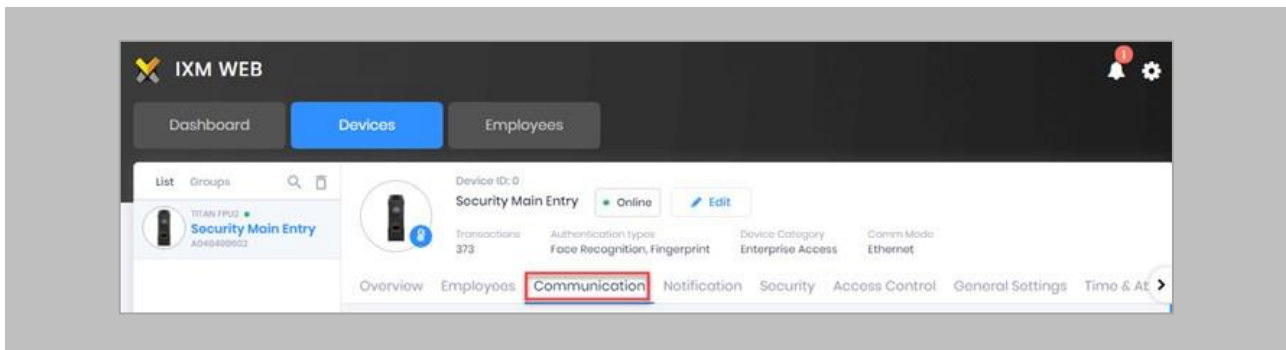


Figure 89: IXM WEB - Device Communication Settings

STEP 4

Scroll down and click on **IXM WEB Server**.

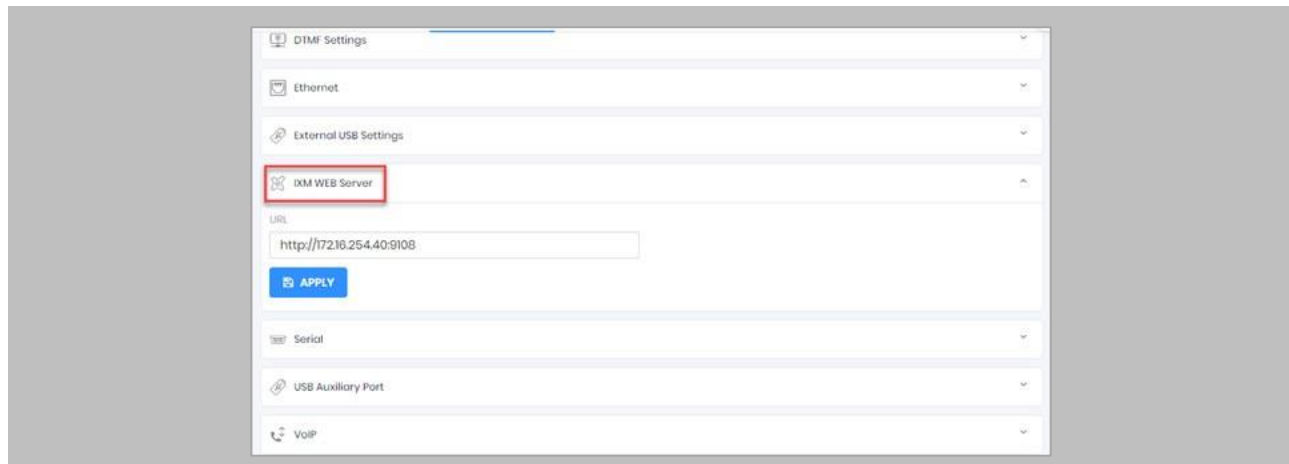


Figure 90: IXM WEB - Server URL Setting

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

STEP 5

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

Format: http://IP_IXMServer:9108.

STEP 6

Navigate to **General Settings** and make sure that the **URL** reflects the same setting.

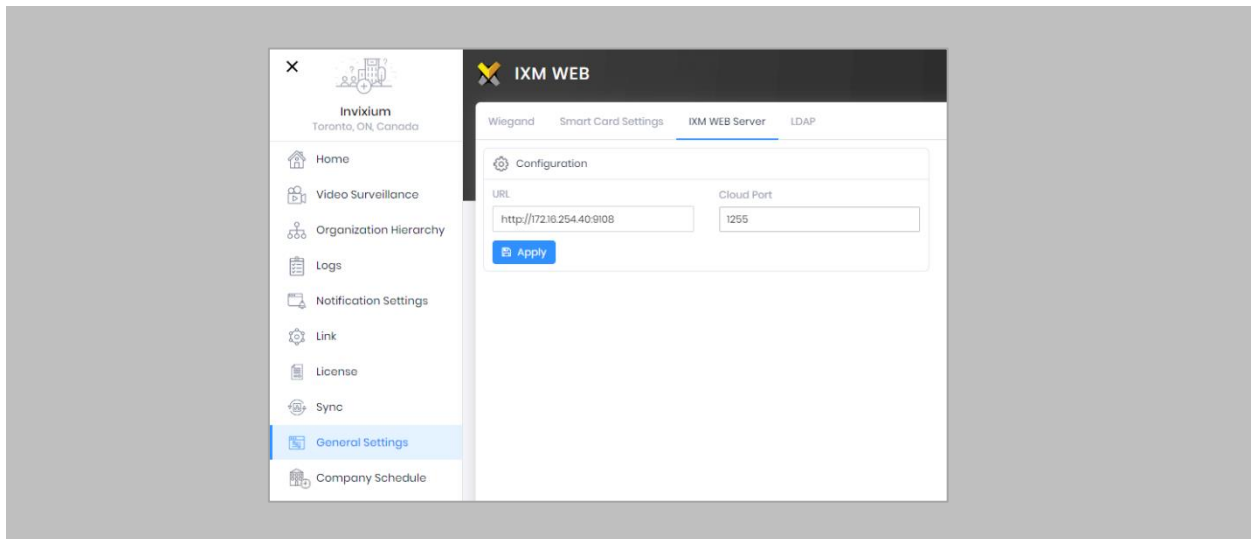


Figure 91: IXM WEB - Server URL Setting from General Settings

Logs in IXM WEB Application

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

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

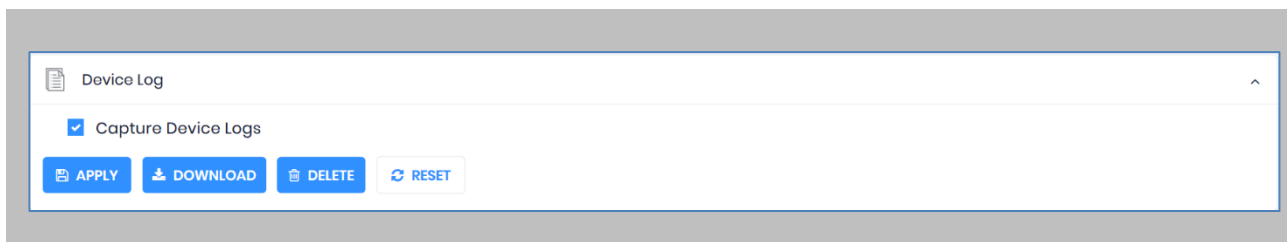


Figure 92: IXM WEB - Enable Device Logs

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

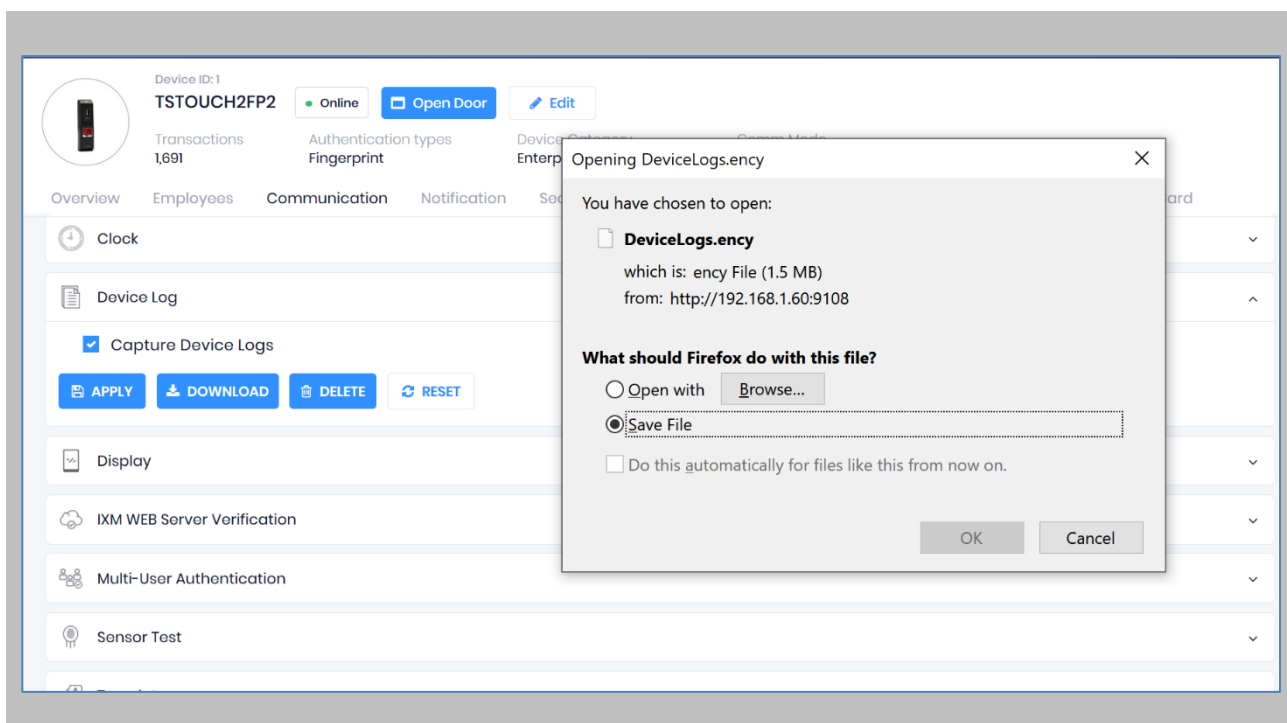


Figure 93: Save Device Log File



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. 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.

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