



IXM WEB Integration with Genetec Security Center

Installation Instructions

V4.0



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1. Introduction

Purpose

This document outlines the process of configuring the software integration between Genetec Security Center (GSC) and Invixium's IXM WEB.

Summary of key features related to this IXM WEB and GSC Integration

- Setting Web-based SDK
- 'Sync All' feature to resynchronize the database from GSC to IXM WEB
- 'IXM WEB AddOn' facility for Biometric Enrollment from GSC
- Multiple Card Support upto 10 cards (default card formats of GSC)
- RIO Integration for wireless connection

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 Genetec Security Center 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 Security Center by using Genetec Web-based SDK.

Acronyms


Acronym	Description
ACPCS	Access Control Panel Configuration Software
GSC	Genetec Security Center
IXM	Invixium

Field Mappings

The following are the GSC fields that are mapped to IXM WEB:



GSC Field	IXM Field	Notes
First name	First Name	
Last name	Last Name	
Status	Suspend User	
Activation	Start Date	
Expiration	End Date	
Card Number	Prox ID/Smart Card ID	Prox ID is given priority during export
Facility Code	Facility Code	
Email Address	Email	
Bypass antipassback rules	Anti-passback	

 Note: Multiple Cards - GSC 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
Genetec Security Center	v5.12
Invixium IXM WEB	3.0.36.0
Operating Systems	Windows 11 Pro Windows 10 Professional Version 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 & Security Center Integration

IXM WEB version	GSC version	Compatible
IXM WEB 2.2.57.0	v5.9.1	Yes
IXM WEB 2.2.57.0	v5.10.3	Yes
IXM WEB 2.2.224.0	v.5.9.1	Yes
IXM WEB 2.2.224.0	v5.10.3	Yes
IXM WEB 2.2.252.0	v5.10.3	Yes
IXM WEB 2.2.330.0	v5.10.3	Yes
IXM WEB 2.3.2.0	v5.10.3	Yes
IXM WEB 2.3.2.0	v5.12	Yes
IXM WEB 3.0.36.0	v5.12	Yes

Table 1: Compatibility Matrix for IXM WEB & Genetec Integration

3. Checklist

Item List	Interface
Create Web-based SDK	Genetec
IXM WEB Activation ID	Invixium
SQL Instance on SQL Server 2016+	Invixium
Install IXM WEB Application	Invixium
IXM WEB and IXM Link Activation	Invixium
Configure IXM Link to Genetec	Invixium
Configure Invixium Reader	Invixium
Face or Finger Enrollment	Invixium

4. Task List Summary

Task	IXM WEB Application Task List using IXM WEB	Genetec Security Center Task List using GSC
1	Activate IXM WEB and IXM Link for GSC	Create Web-based SDK
2	Configure IXM Link for GSC	First time enrollment configuration
3	Register IXM Devices and configure settings as per the requirement	Enroll cardholder biometric (Face, fingerprint, finger vein)
4	Configure Weigand or OSDP or RIO settings in device for integration with Genetec Synergies appliance	Configuring door for RIO integration
5	Assign a specific Device Group to the device	Monitor Events and Generate Report

Table 2: Task List Summary

5. Prerequisites for GSC and IXM WEB Integration

Setting up Web-based SDK

Procedure

STEP 1

Navigate to **System** → **Roles** → Click **Web-based SDK**

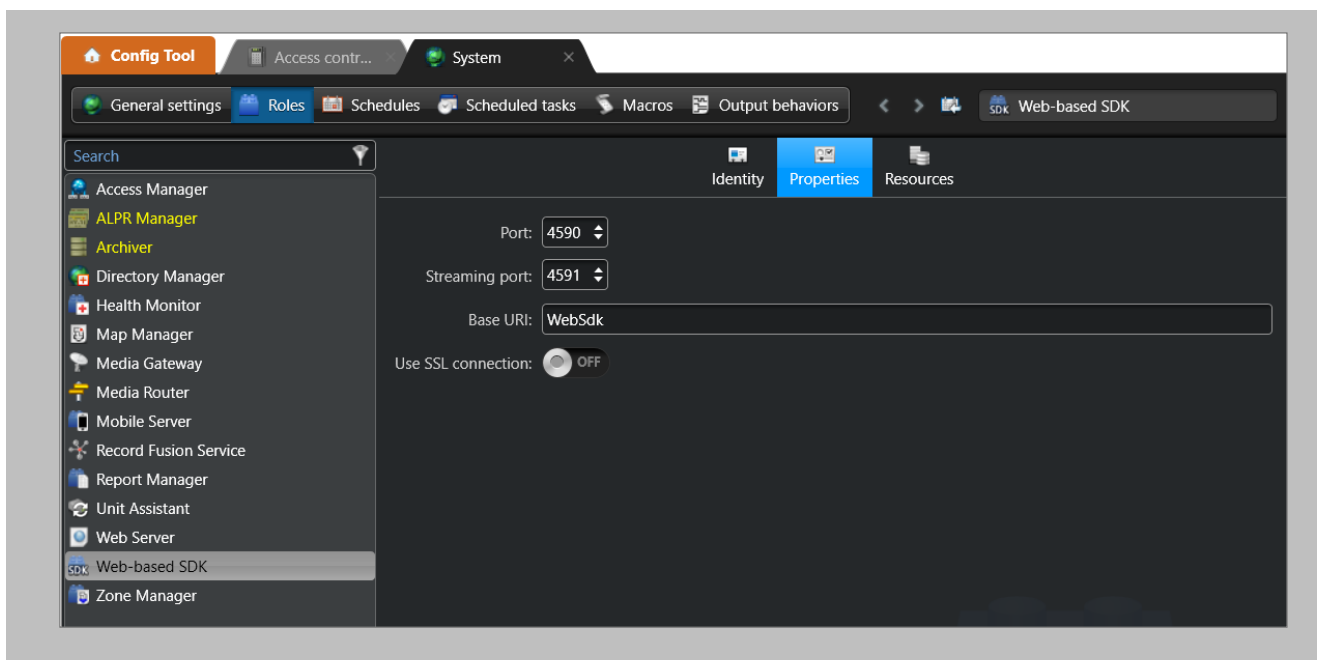


Figure 1: GSC – Setting up Web-Based SDK

6. Prerequisites for Installing Invixium IXM WEB Software

Acquiring 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* v	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* v	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.

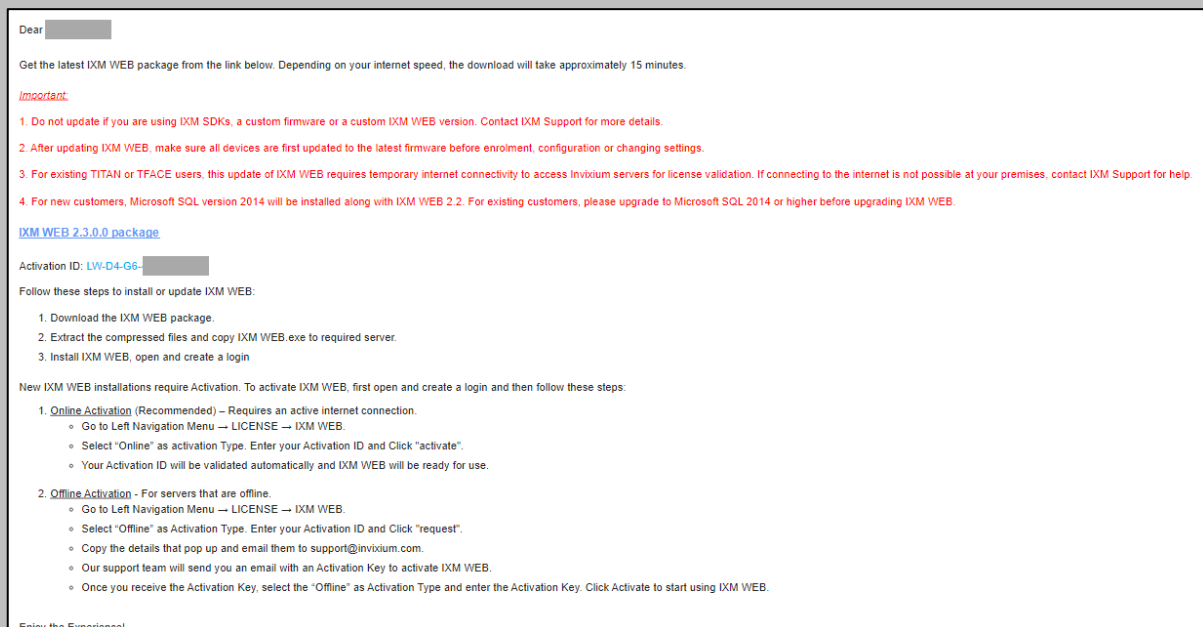



Figure 2: Sample Email After Submitting Online Request Form

Setting Up SQL instance

 Note: The following section describes the setup of a pre-created instance of SQL 2016+. Creating a new instance can be done with the use of SQL Installer within the Security Center installation media kit.

Procedure

STEP 1

Make sure to **Create** a new SQL instance on the server.

STEP 2

Set the instance name as IXM WEB (default) or Invixium.

STEP 3

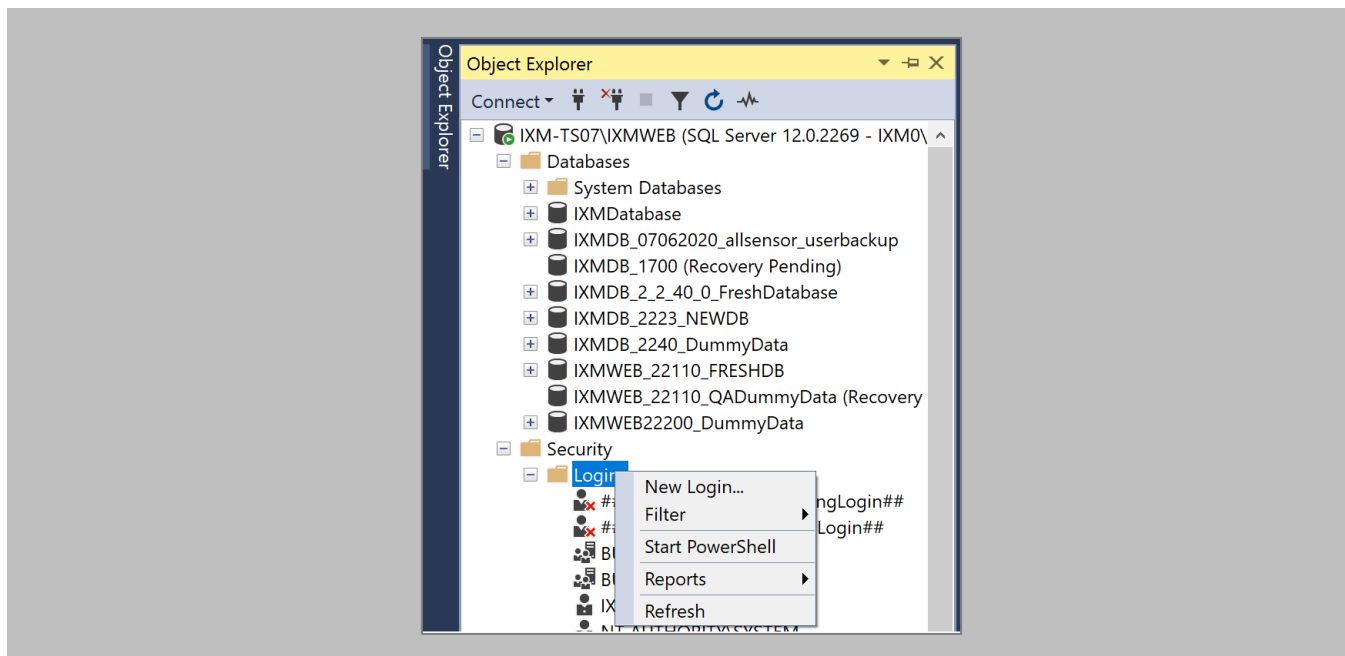
Select mixed mode: SQL Authentication and Windows Authentication for secure logins. Leave everything else as default.


STEP 4

Install **SQL Management Studio** on the server.

STEP 5

Log into the new instance and create a new user.



 Note: Make sure to uncheck both 'Enforce password expiration' and 'User must change password at next login'.

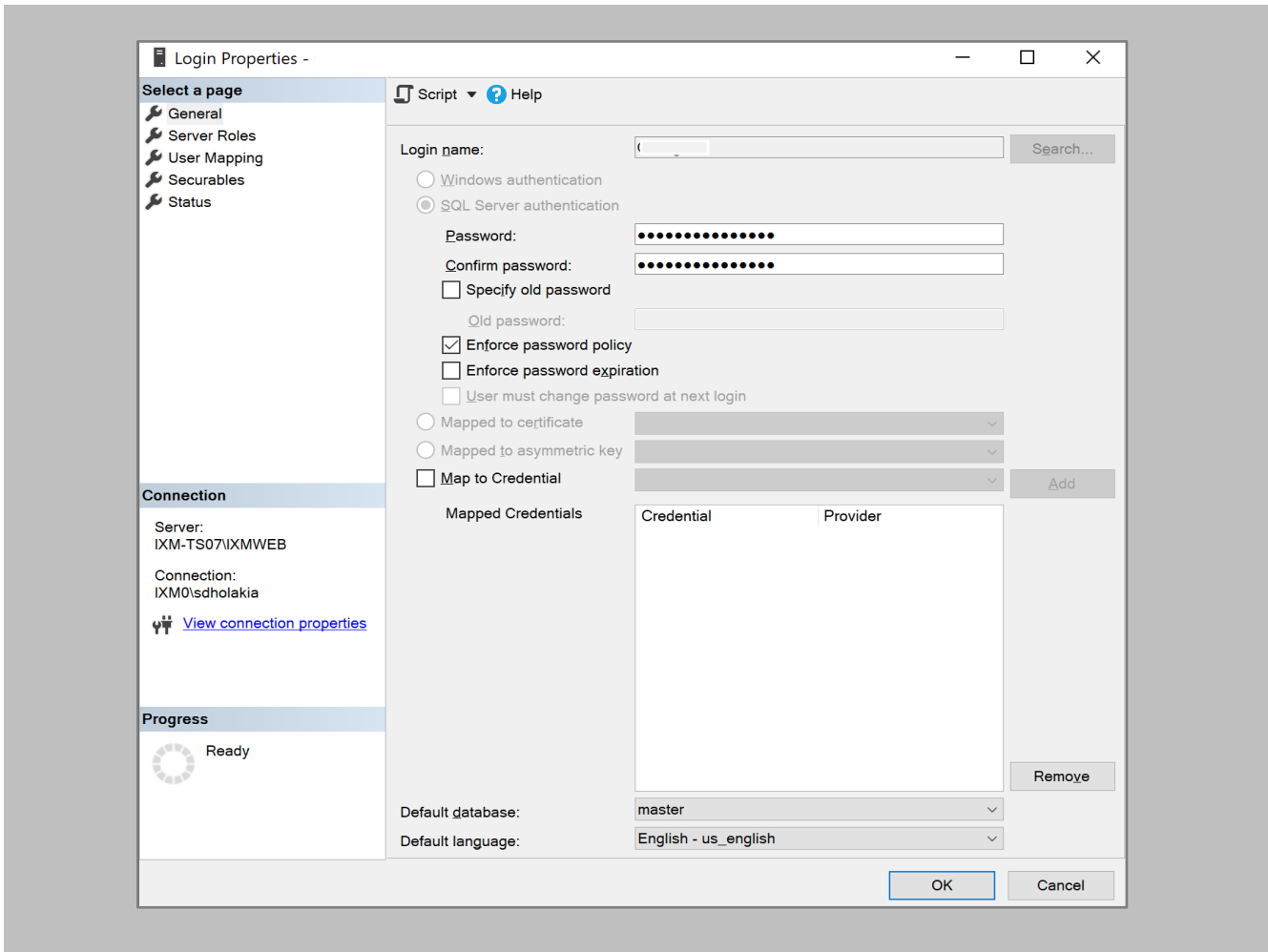


Figure 4: SQL Login Properties

STEP 7

Add this user under **Server Roles**, **dbcreator**, and **sysadmin**.

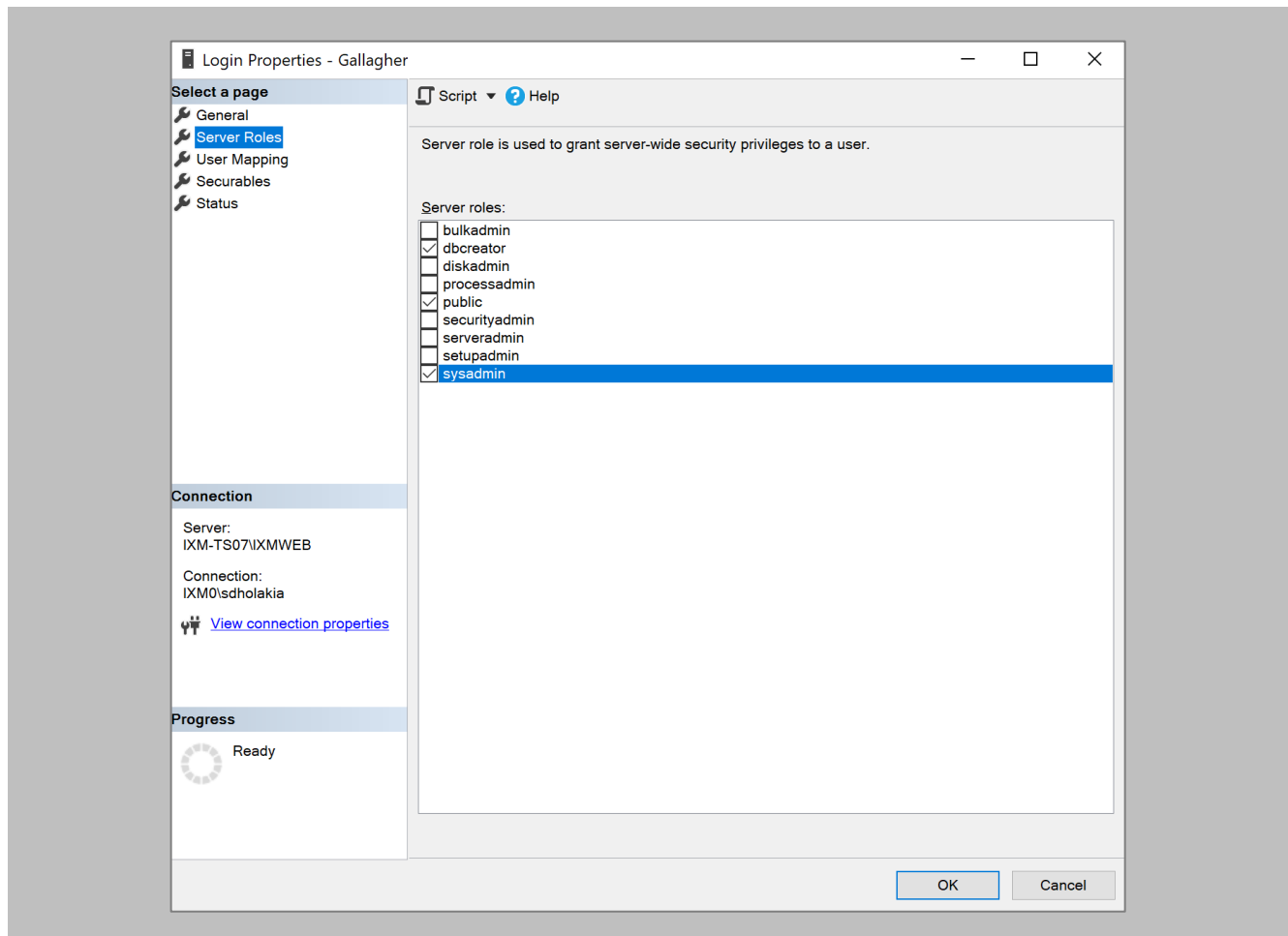


Figure 5: SQL Server Roles

RESULT

These privileges will be used later in the installation process to create the database.

Minor Checklist and Considerations

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

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

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
GSC Web SDK Port	4590 (default)

Table 4: Port Information

7. Installing IXM WEB

Software Install

Procedure

STEP 1

Run the IXM WEB installer (Run as administrator).

Select **Advanced**.

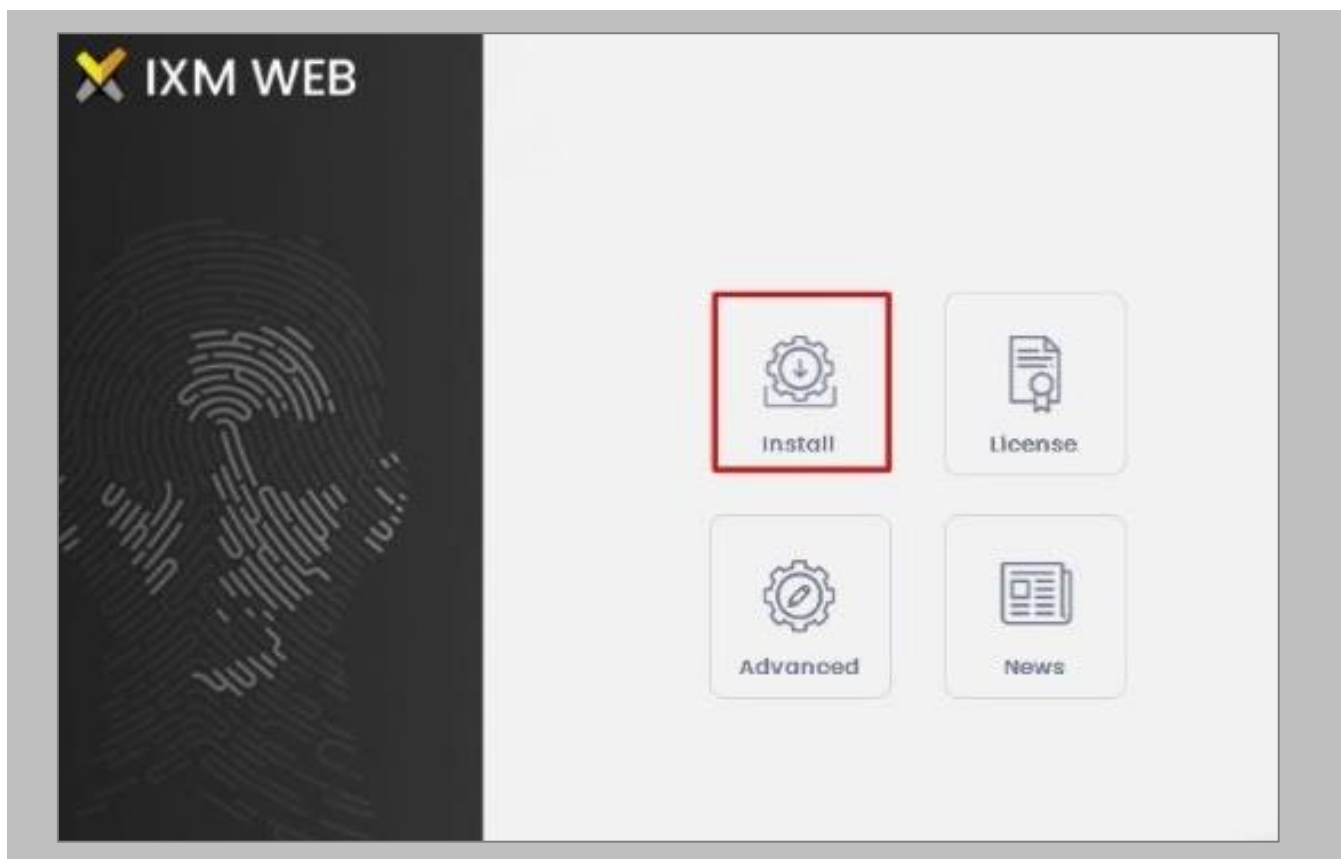


Figure 6: IXM WEB Installer

STEP 2

Deselect **Install SQL Server** and select **Install**.

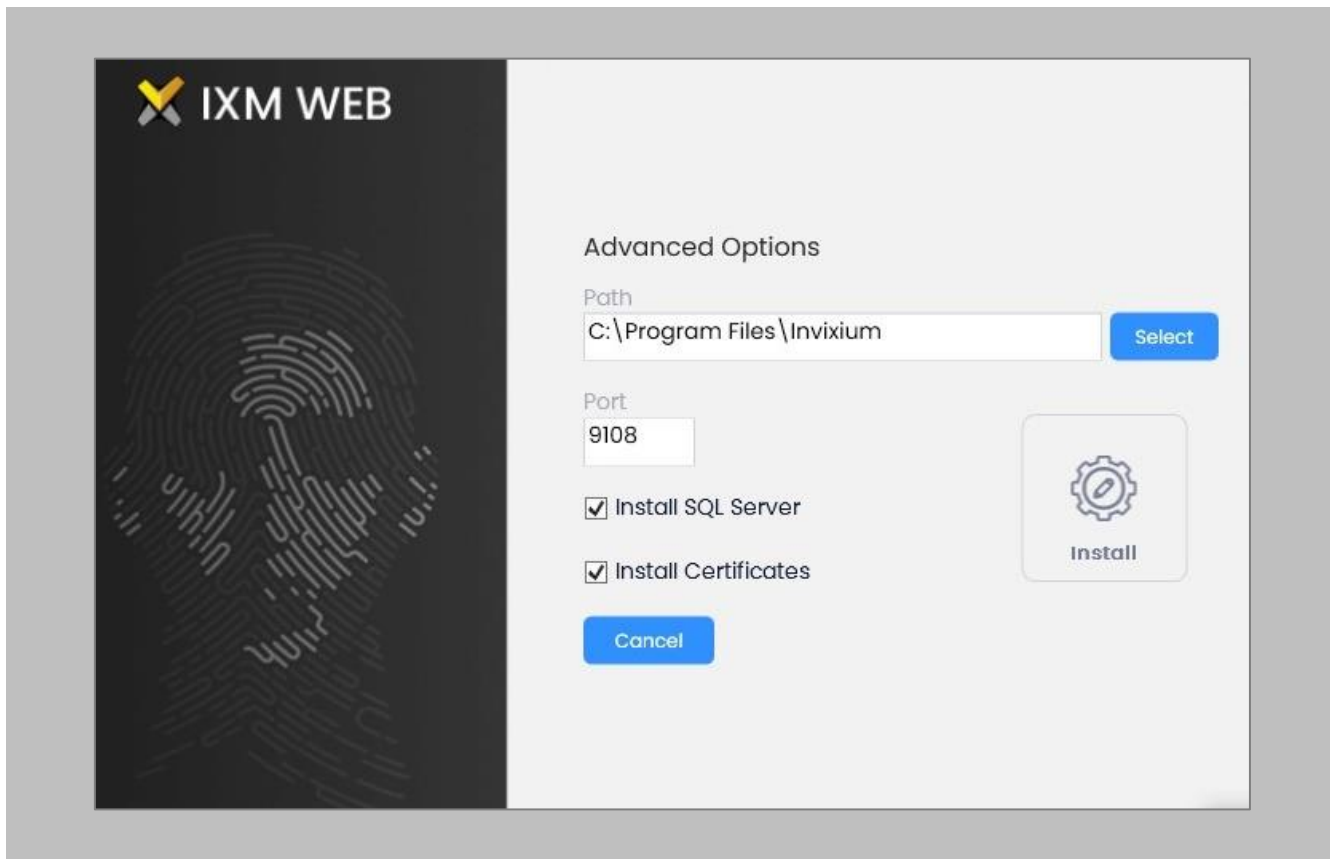


Figure 7: Advanced Options in IXM WEB Installer

STEP 3

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

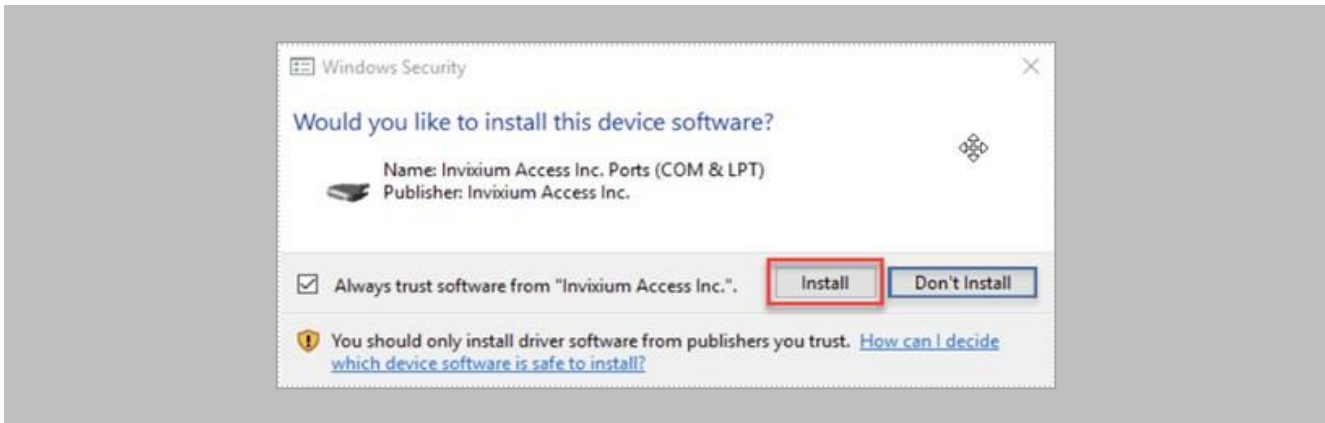


Figure 8: Inixium Fingerprint Driver Installation Message

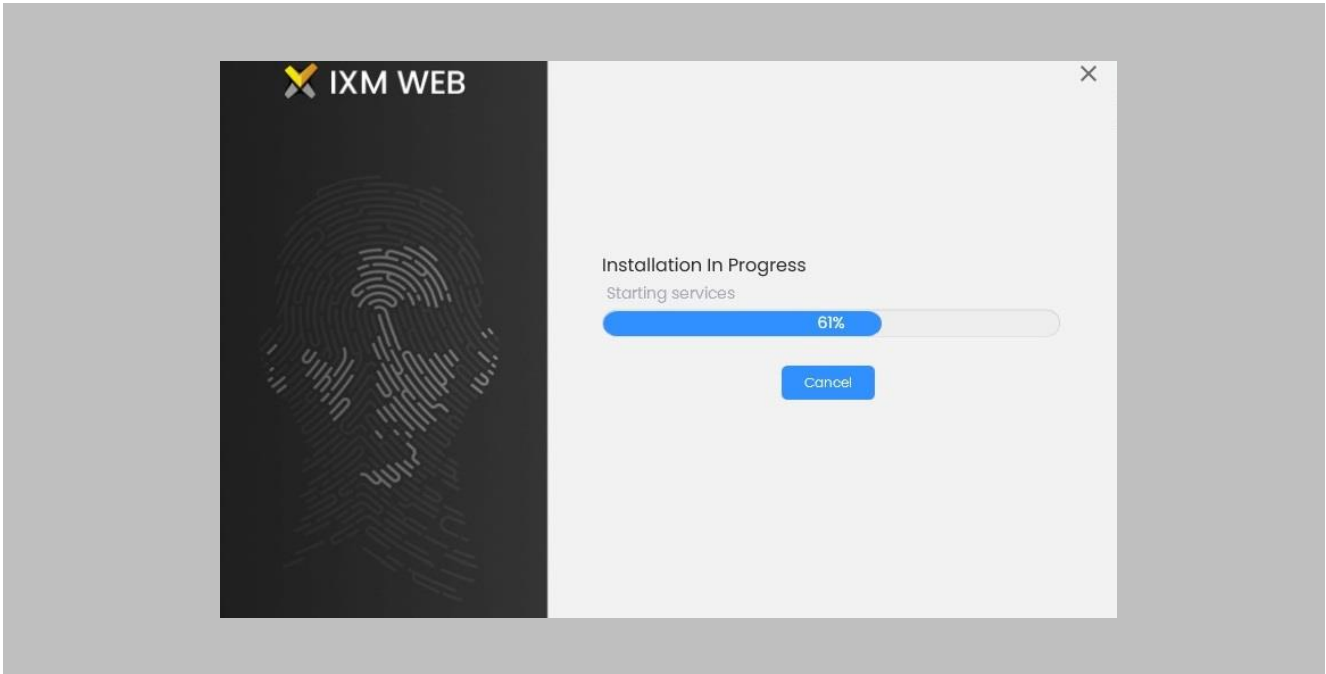


Figure 9: IXM WEB Installation Progress

STEP 4

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

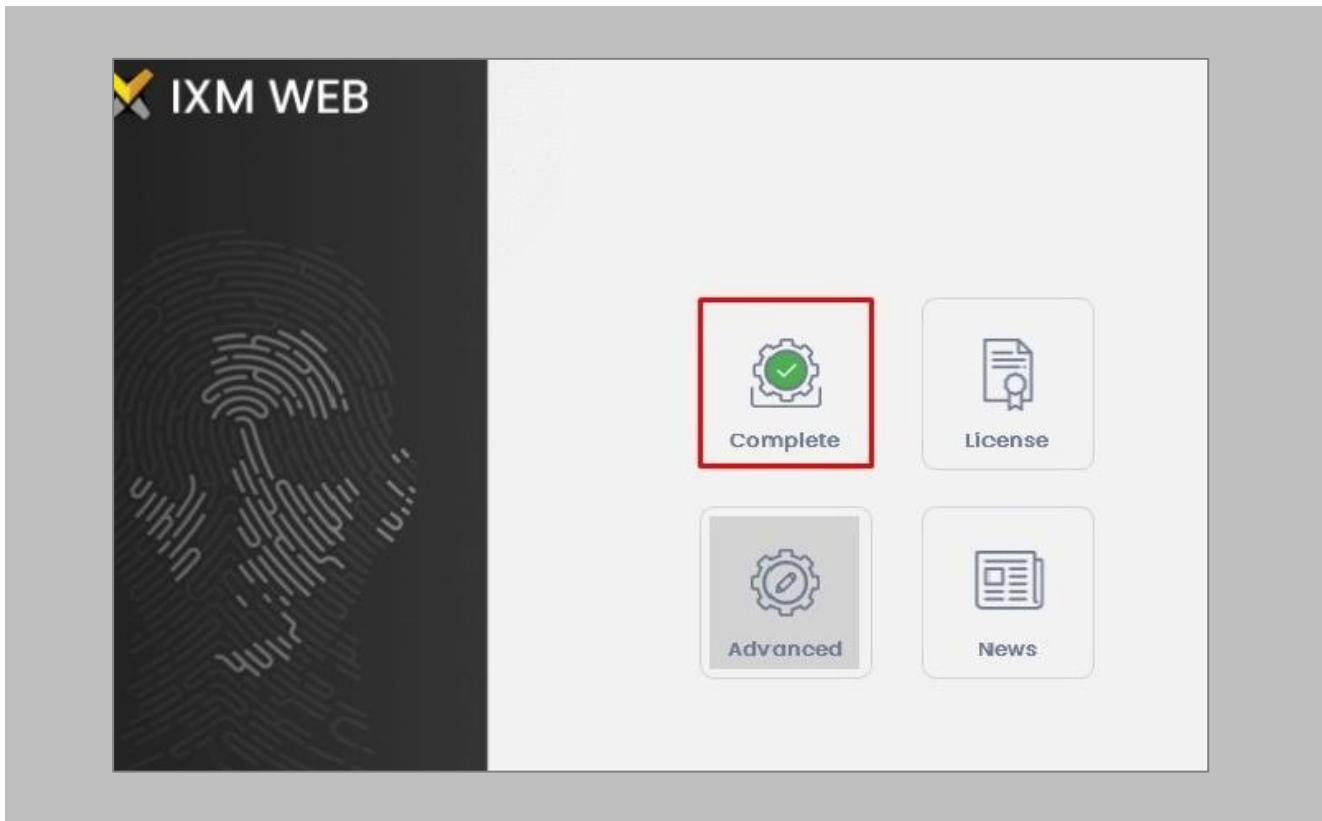


Figure 10: IXM WEB Installation Completed

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 11: IXM WEB Icon - Desktop Shortcut

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

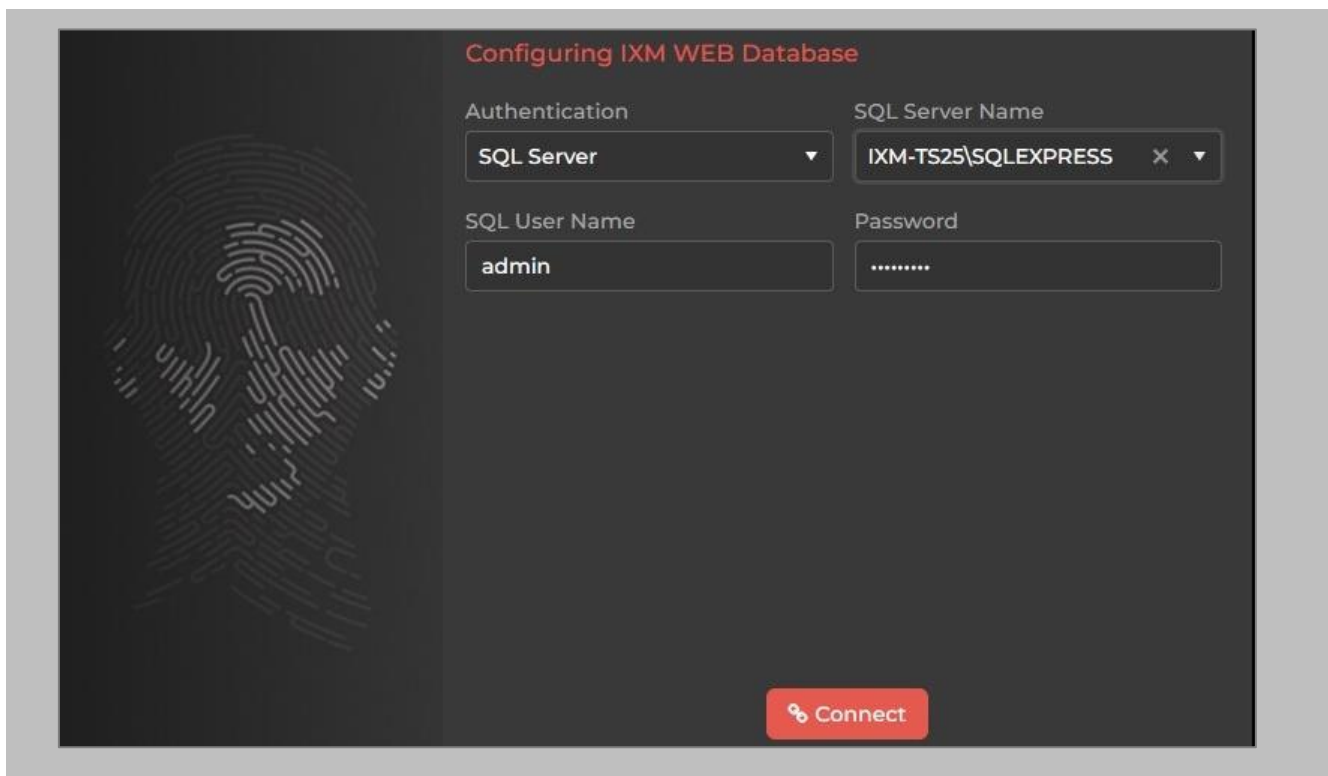


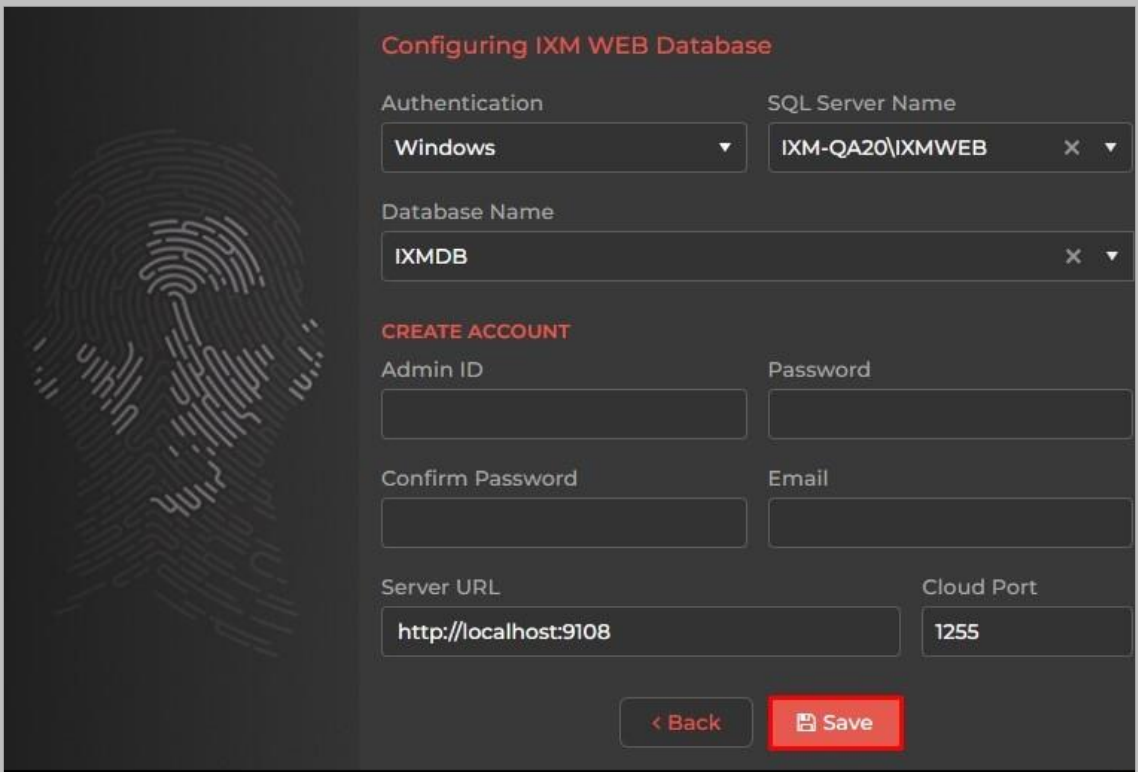
Figure 12: IXM WEB Database Configuration

STEP 6

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.



The screenshot shows a configuration interface for the IXM WEB Administrator. The title is "Configuring IXM WEB Database". The form is divided into several sections:

- Authentication:** A dropdown menu set to "Windows".
- SQL Server Name:** A dropdown menu set to "IXM-QA20\IXMWEB".
- Database Name:** A dropdown menu set to "IXMDB".
- CREATE ACCOUNT:** A section with four input fields:
 - Admin ID:** An empty text input field.
 - Password:** An empty text input field.
 - Confirm Password:** An empty text input field.
 - Email:** An empty text input field.
- Server URL:** A text input field containing "http://localhost:9108".
- Cloud Port:** A text input field containing "1255".

At the bottom of the form, there are two buttons: a grey "< Back" button and a red "Save" button with a save icon.

Figure 13: IXM WEB Administrator User Configuration

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



STEP 8

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.

STEP 11

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

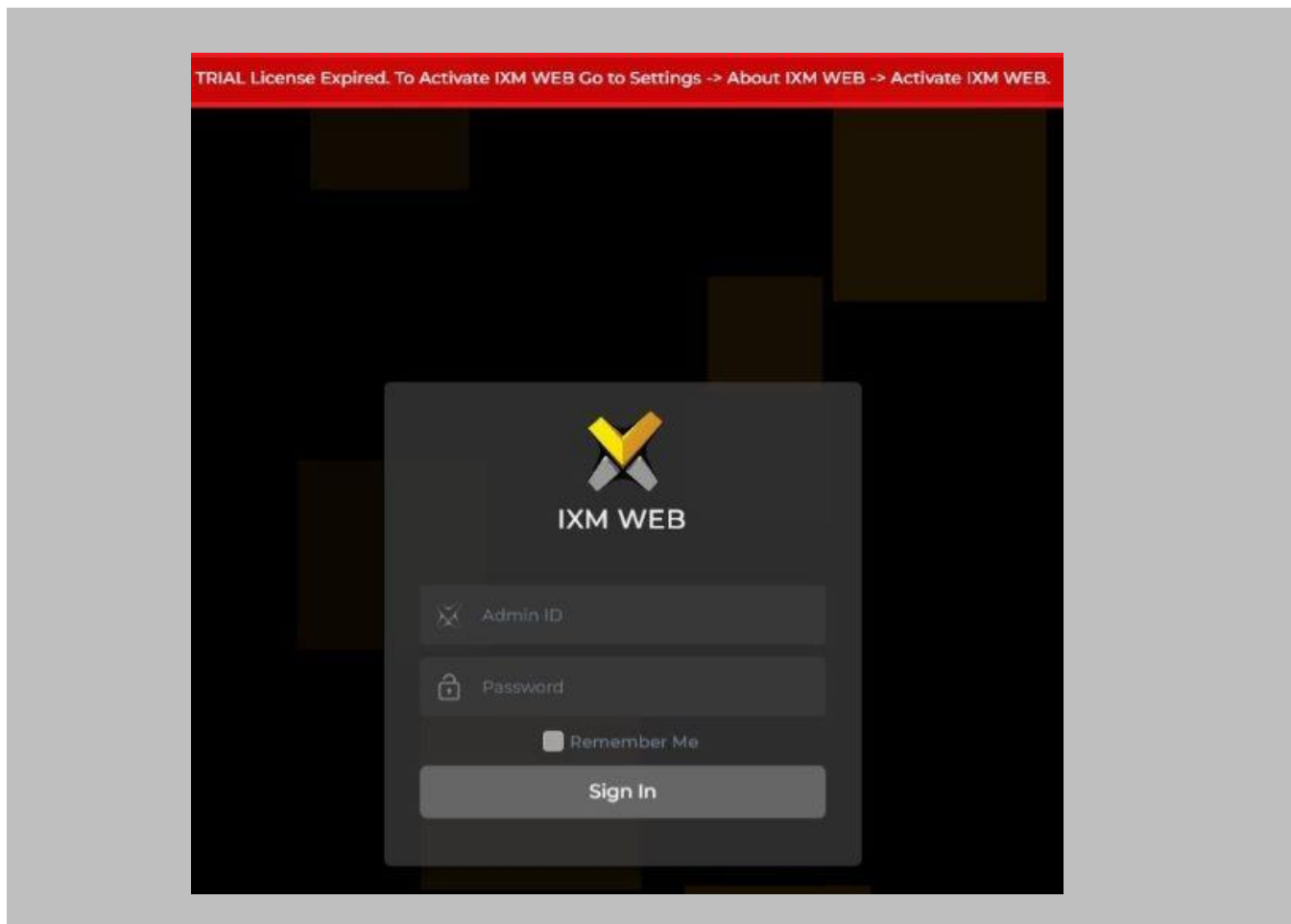



Figure 14: IXM WEB Login Page

 Note: During an upgrade of IXM WEB from any previous release to 3.0.36.0, 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.

8. Configuring Email Settings using IXM WEB

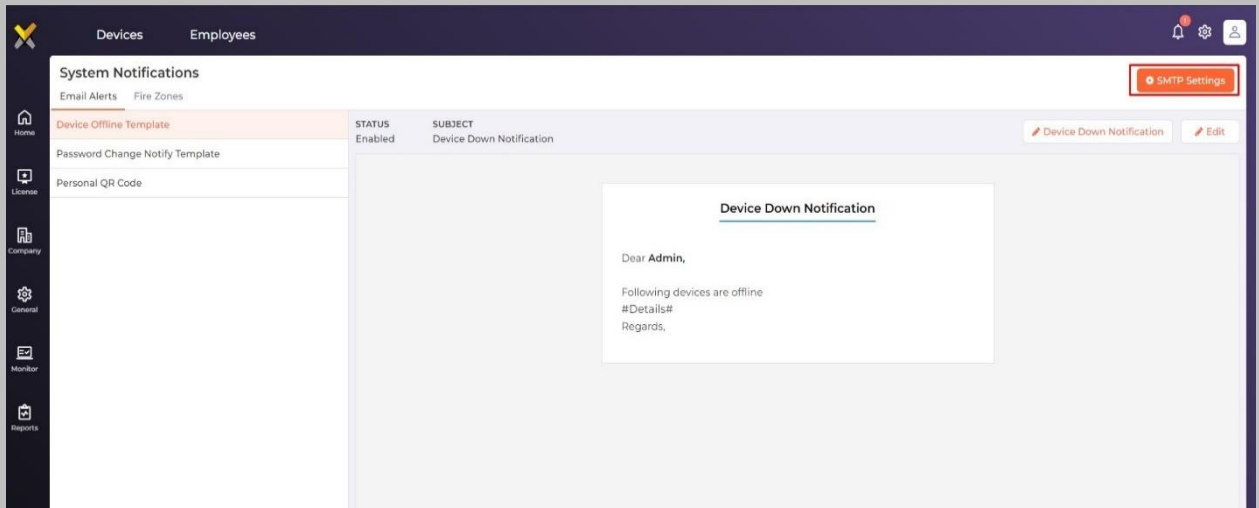
Configuring Email settings is highly recommended as one of the first steps after installing IXM WEB. Email configuration settings will help the admin retrieve the password for IXM WEB in case it is forgotten. In addition, having email settings configured also makes activation and license key requests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

Email Setting Configuration

Procedure

STEP 1

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



The screenshot displays the 'System Notifications' interface in the IXM WEB application. The top navigation bar includes 'Devices' and 'Employees' tabs, along with notification, settings, and user profile icons. A sidebar on the left contains navigation options: Home, License, Company, General, Monitor, and Reports. The main content area is titled 'System Notifications' and includes sub-sections for 'Email Alerts' and 'Fire Zones'. A table lists notification templates with columns for 'STATUS' and 'SUBJECT'. The 'Device Down Notification' template is highlighted, showing its status as 'Enabled' and subject as 'Device Down Notification'. To the right of the table are buttons for 'Device Down Notification' and 'Edit'. A preview window for the 'Device Down Notification' template is shown, containing the following text:

Device Down Notification

Dear Admin,

Following devices are offline
#Details#

Regards,

Figure 15: Configure Email

STEP 2

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

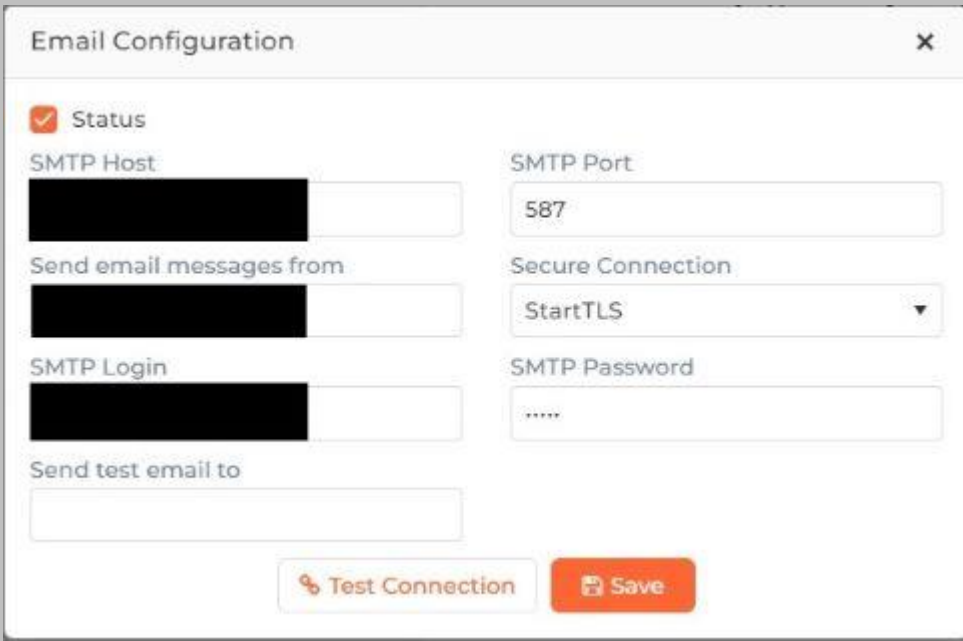


Figure 16: IXM WEB - SMTP Settings



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.

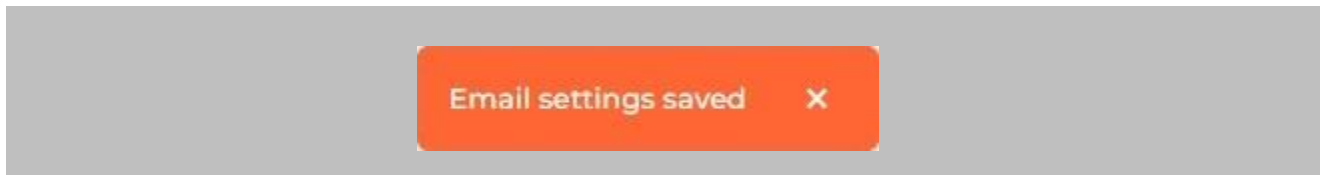


Figure 17: IXM WEB - Save Email Settings

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.

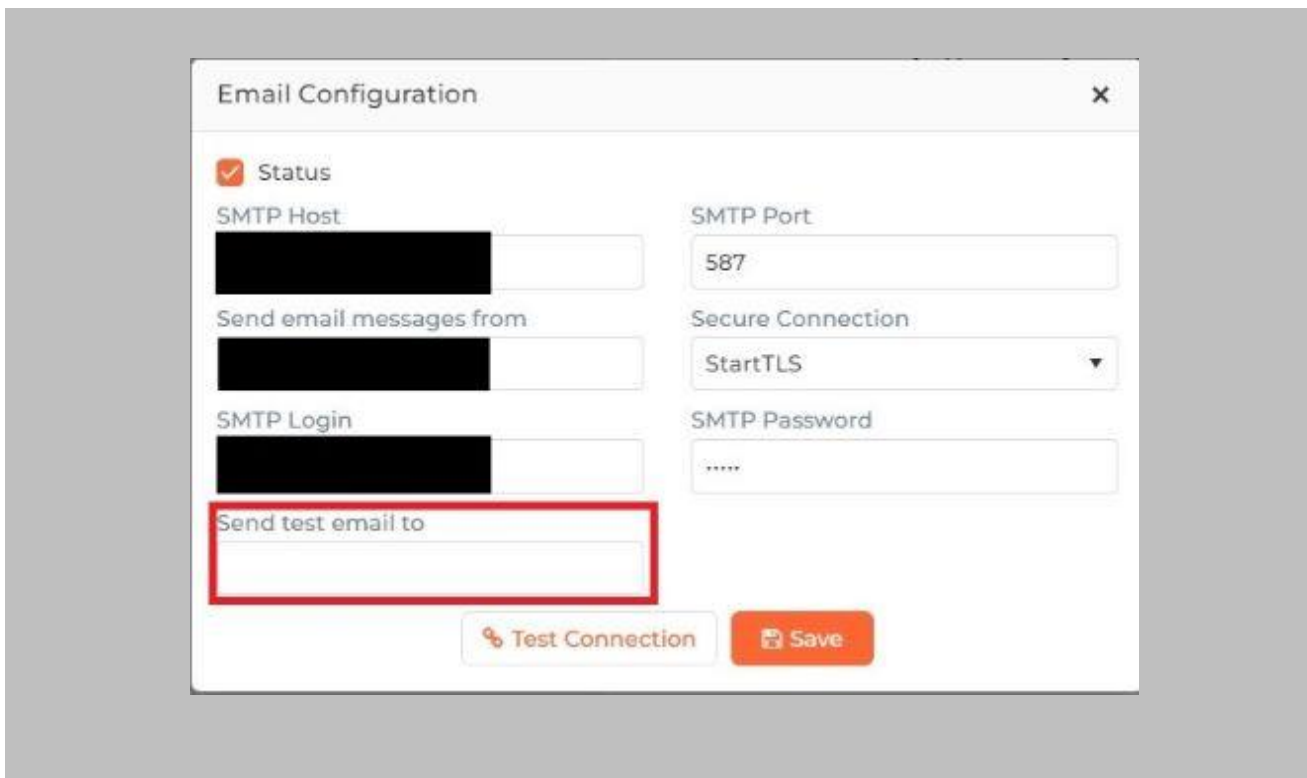


Figure 18: IXM WEB – Test Connection

STEP 4

Once email configuration is completed, a [Forgot password](#) link will appear on the Sign In page in its place.

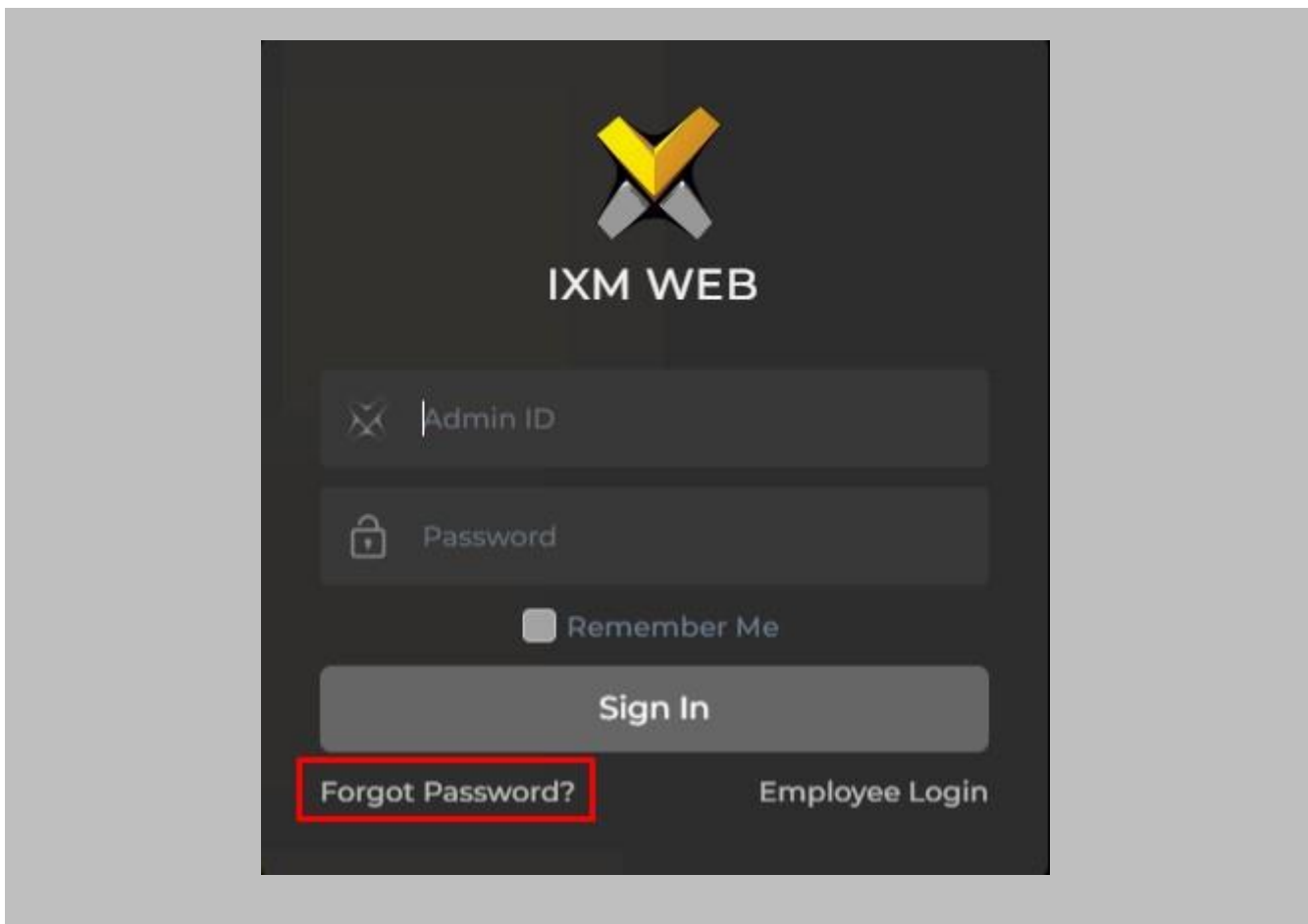


Figure 19: IXM WEB - Forgot Password

9. Software and Module Activation

IXM WEB Activation

Procedure

STEP 1

Log into IXM WEB.

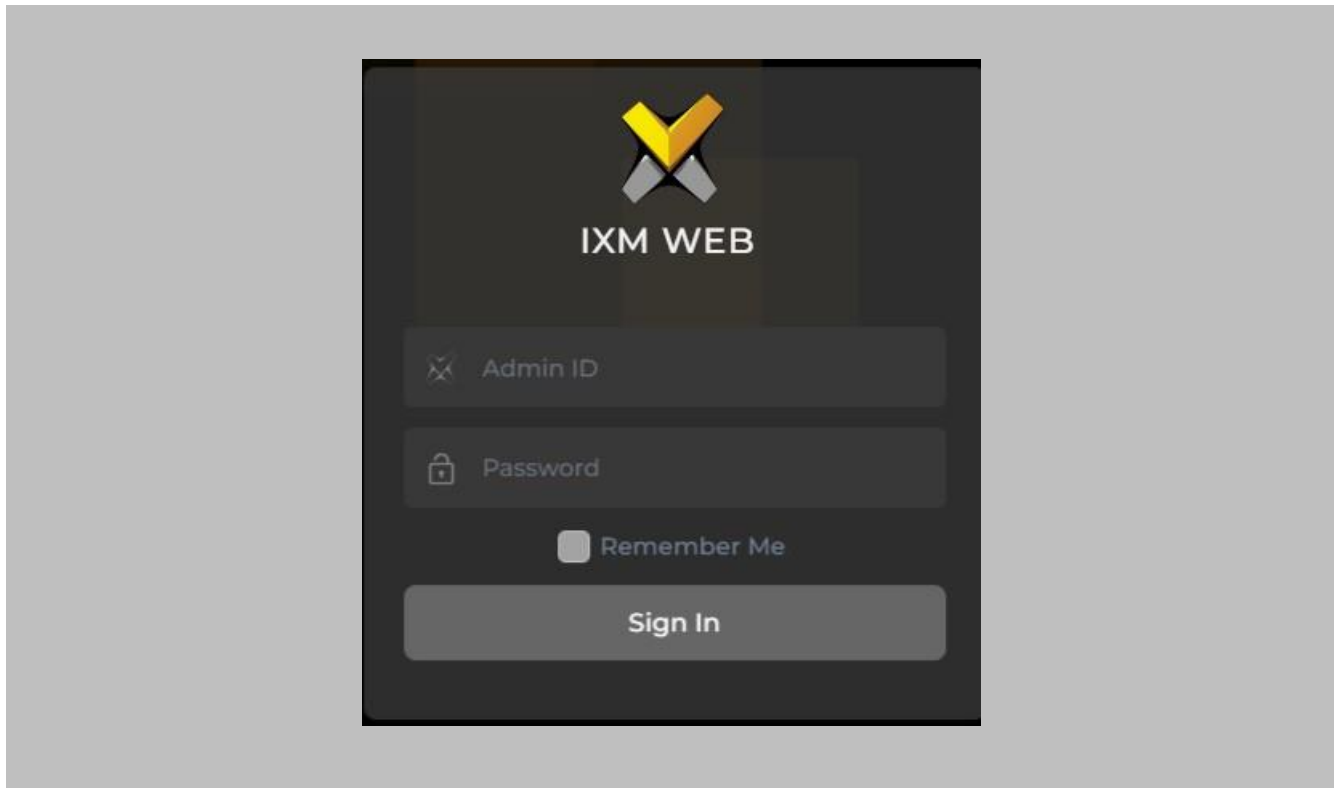


Figure 20: IXM WEB - Enter Login Credentials

STEP 2

Select the [Settings Icon](#) on top right of page then click [About IXM WEB](#).

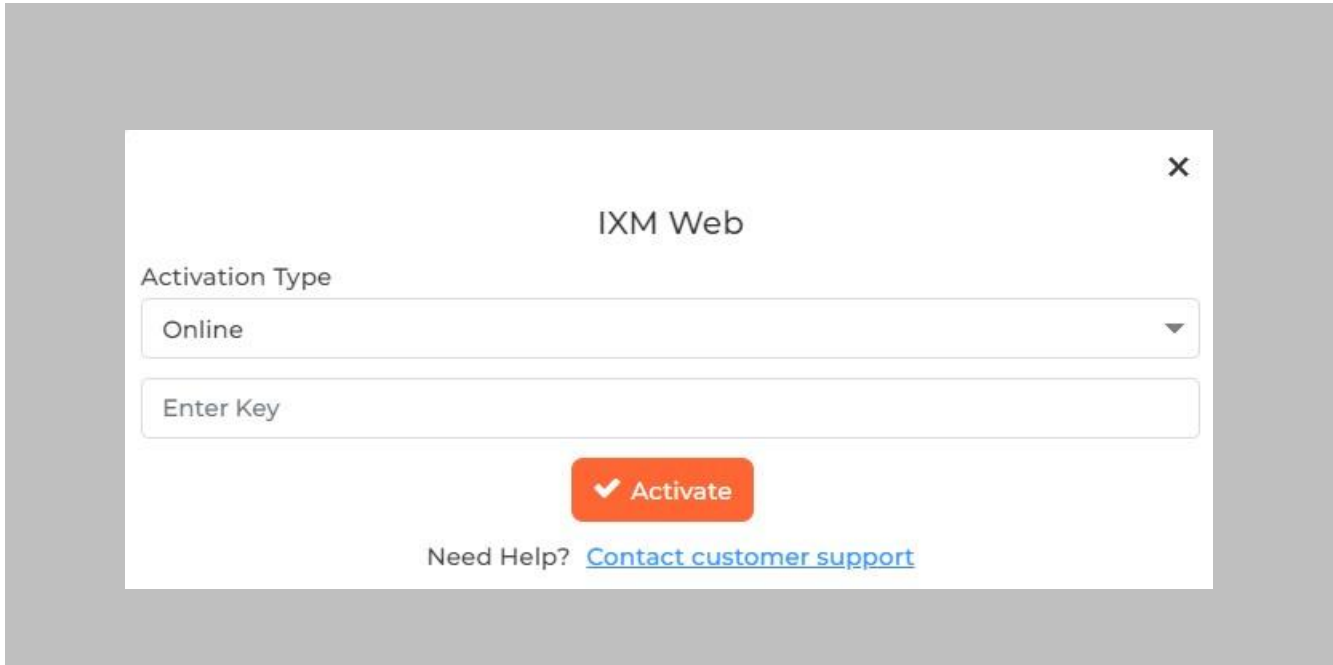



Figure 21: IXM WEB - License Setup

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.

STEP 4

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

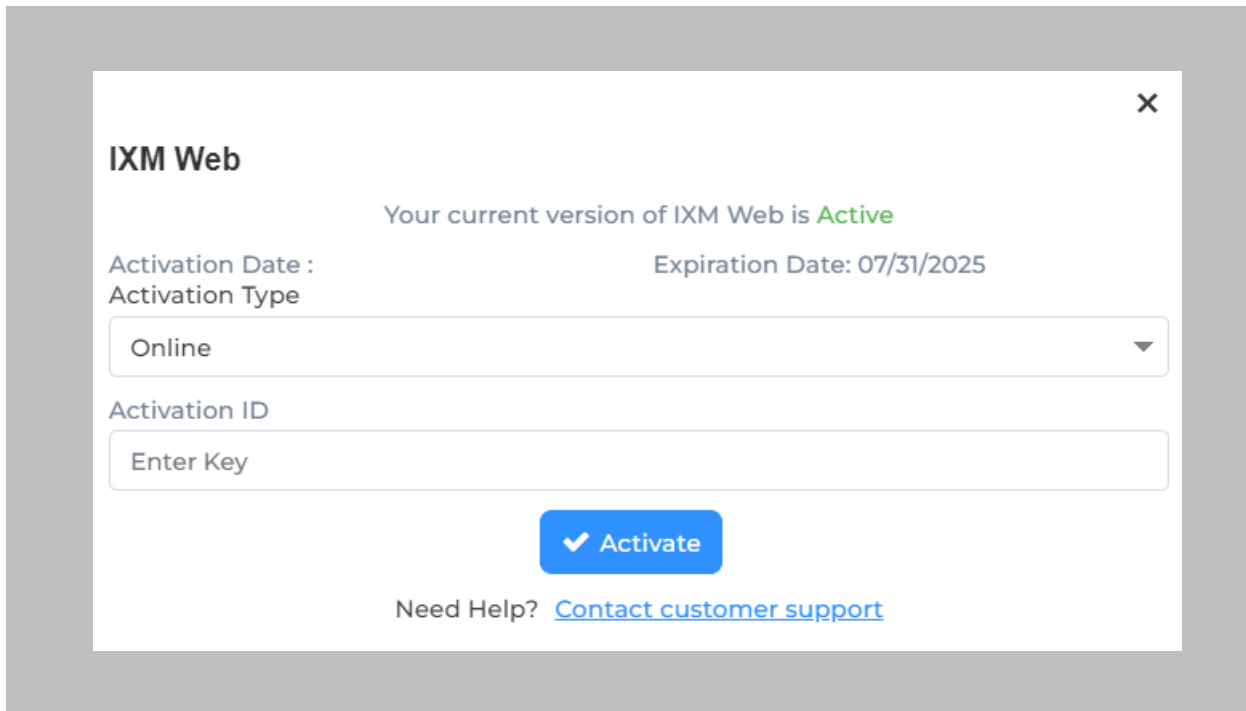


Figure 22: IXM WEB - Online Activation

Security Center Module Activation

The option to activate a Genetec Security Center 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@invidium.com. Paste the copied machine key in the email.

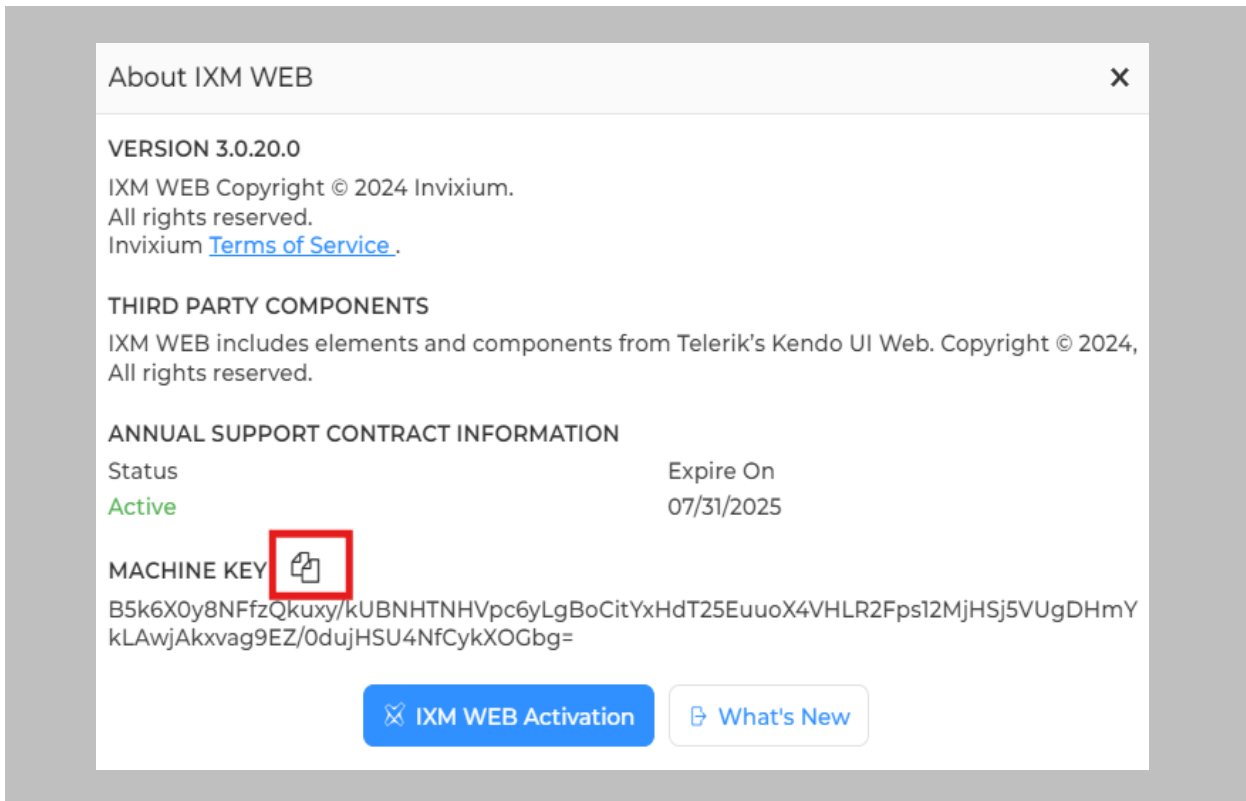


Figure 23: IXM WEB – Request Link License

STEP 2

You will receive an email from Invidium Support containing a license key for the Genetec Security Center Activation.

From: Invixium Support
Sent: Thursday, September 30, 2021 11:59 AM
To: [REDACTED]
Subject: RE: IXM LINK Activation key request

Dear [REDACTED],

Greetings! Thanks for connecting with Invixium Technical Services Team!

Your license details are given below:

- Module: **Genetec**
- License Key: [REDACTED]

To activate your IXM Link license, follow these steps:

1. Open IXM WEB and login
2. Go to Left Navigation Menu >> Click LICENSE tab
3. Select the Lenel option
4. Enter the License Key given above and click **Activate**.

We appreciate your kind support & patience.

Best Regards,

Invixium Technical Services Team

Contact US: +1 844 INVIXIUM (468 4948)

Email: support@invixium.com

Work Hours: 12:00AM to 5:00PM (Eastern Time)

Skype: invixium_support

This email and any attachments may contain confidential and privileged information. If you have received this message in error, please notify us immediately and destroy the material in its entirety, whether electronic or hard copy. Also, please consider the environment before printing this email.

Figure 24: Genetec License Key Email

STEP 3

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

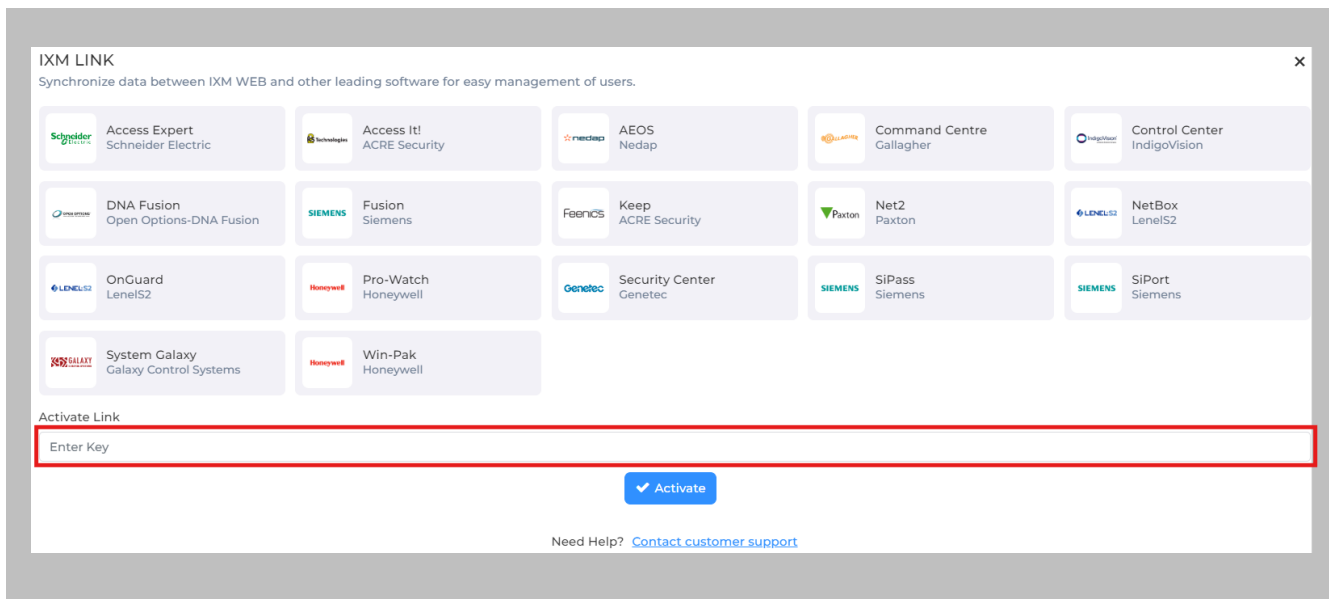


Figure 25: IXM WEB - Activate Genetec Security Center Link License

RESULT

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

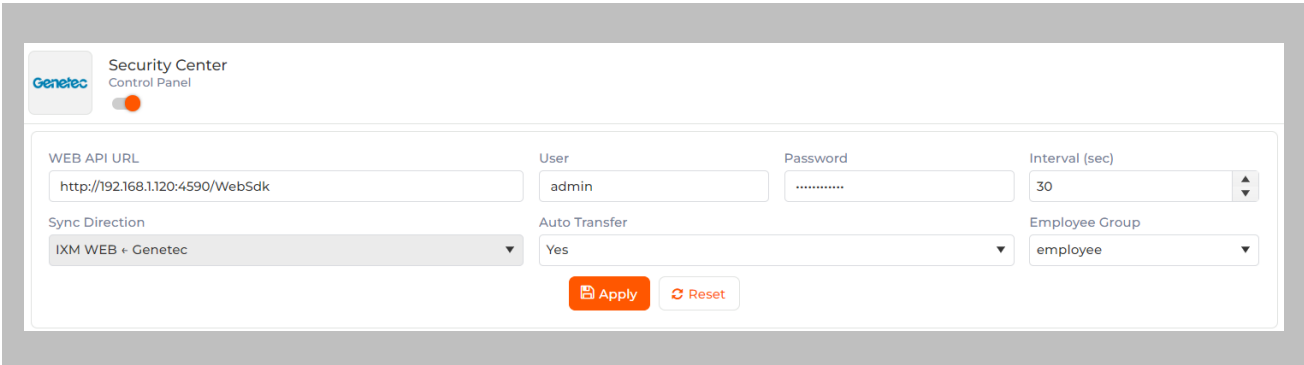
10. Configuring IXM Link for Genetec

Procedure

STEP 1

From the **Link** → click the **Security Center (Genetec)** icon.

Toggle the **Status** switch to enable.



The screenshot shows the 'Security Center Control Panel' for the 'IXM WEB + Genetec' module. The status switch is turned on. The configuration fields are as follows:

Field	Value
WEB API URL	http://192.168.1.120:4590/WebSdk
User	admin
Password
Interval (sec)	30
Sync Direction	IXM WEB + Genetec
Auto Transfer	Yes
Employee Group	employee

Buttons: Apply, Reset

Figure 26: IXM WEB - Enable Genetec Link Module

Web API URL:

Enter the GSC WEB API URL. For example: <https://localhost:4590/WebSdk>

User:

Enter the name of the authorized user to connect to the Web SDK of Genetec Security Center.

Password:

Enter the Password of the authorized user to connect to the WEB SDK of Genetec Security Center

Interval (Sec):



Enter the duration of interval for data transfer between Genetec and IXM WEB. The system will automatically try to establish connection after every specified interval of time and sync users.

Sync Direction:

Click on the field to select the direction of data transfer. Data can be transferred in following three ways :

- IXM WEB ← Genetec

Choosing this option will transfer data in one direction only, ie, from Genetec to IXM WEB. Genetec is considered as the master data in this case and any changes made in IXM WEB data will be overwritten during transfer.

Note:

This is the recommended option.

- IXM WEB → Genetec

Choosing this option will transfer data in one direction only, ie, from IXM WEB to Genetec. IXM WEB is considered as the master data in this case and any changes made in Genetec data will be overwritten during transfer.

- IXM WEB ↔ Genetec

Choosing this option will transfer data in both the directions, ie, from Genetec to IXM WEB first followed by IXM WEB to Genetec.

Auto Transfer:

This option provides facility to add employee into Employee Groups in IXM WEB. For example, if there is an Employee Group called 'Default Group' in IXM WEB, then all the employees from Genetec will be added directly to the 'Default Group'.

Click on either 'Yes' or 'No'.

Yes: Selection of User Group is mandatory to use Auto Transfer. Users will be transferred to IXM Devices based on Sync Group configuration for selected Employee Group.

No: Users will not be transferred to the IXM Devices.

Employee Group:

- This option will be enabled only when 'Auto Transfer' is set as 'Yes'. Otherwise it will remain disabled.

A list of existing Employee Groups created in IXM WEB is displayed. Click on the Employee Group to which employees should be transferred automatically.

Click **Apply**. The transfer of data between Genetec and IXM WEB is possible only after successful connection.

In case of unsuccessful connection, please refer to the *Troubleshooting* section.

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

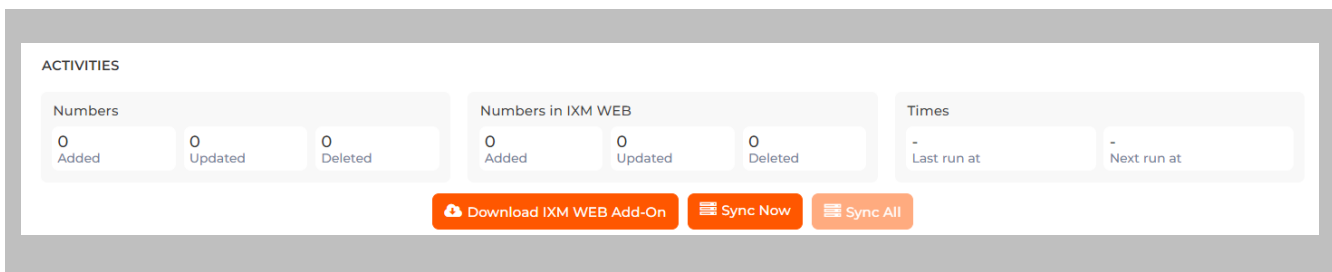


Figure 27: IXM WEB - Sync Activities

Numbers

The first two columns display the number of records added, updated and deleted in Genetec and IXM WEB respectively after each data transfer.

Times

The last column displays the time when the data was transferred last.

It also shows the time when the data will be transferred next. It is calculated as per the specified Interval.



STEP 3

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”.

STEP 4

The **Sync All** feature allows resynchronization of database from GSC to IXM WEB. This will re-import missing cardholders or updated cardholders from GSC to IXM WEB. Also, it will delete IXM WEB employee records according to cardholders available in GSC.

- The **Sync All** button will be visible only when the sync direction is selected as Genetec to IXM WEB (One-way sync).

RESULT

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

STEP 5

The **Download IXM WEB Add-On** feature allows to download and set up installation on each machine where Config Tool is available for enrollment of biometric templates from LINK view.

11. Installing IXM WEB Add-On

Download IXM WEB Add-On exe

Procedure

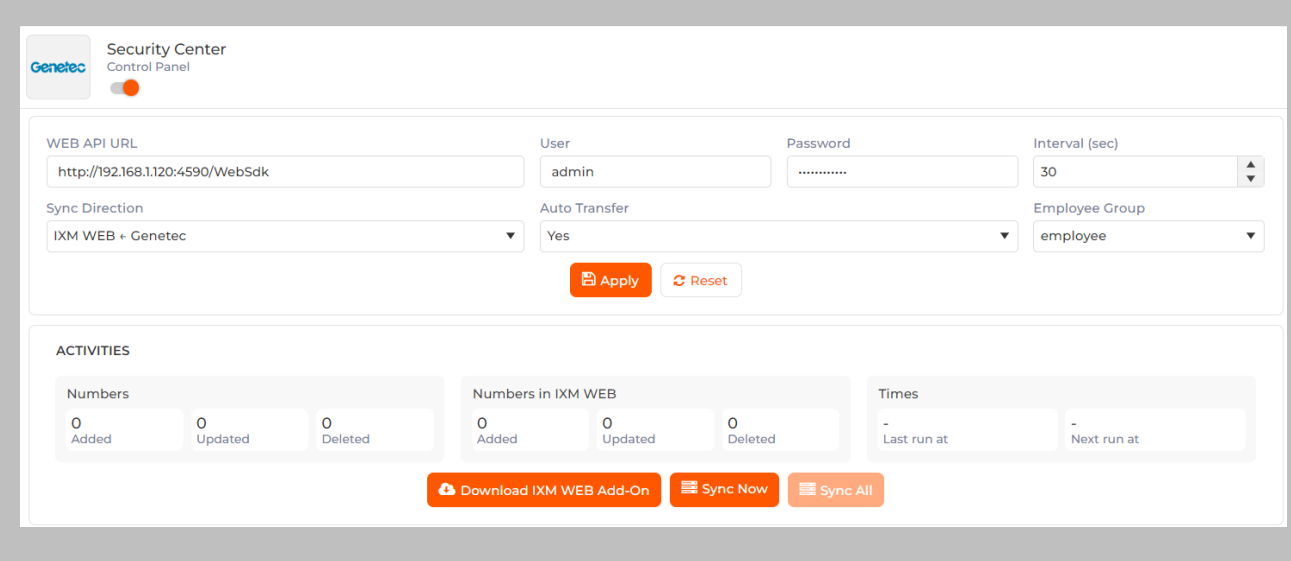
STEP 1

Log into IXM WEB and click on **Link** tab.

Click on **Security Center (Genetec)**.


STEP 2

Click **Download IXM WEB Add-On** to download the executable file.



The screenshot shows the 'Security Center Control Panel' interface. At the top left, there is a Genetec logo and a toggle switch. Below this, there are several configuration fields: 'WEB API URL' (http://192.168.1.120:4590/WebSdk), 'User' (admin), 'Password' (masked with dots), 'Interval (sec)' (30), 'Sync Direction' (IXM WEB ← Genetec), 'Auto Transfer' (Yes), and 'Employee Group' (employee). There are 'Apply' and 'Reset' buttons below these fields. Below the configuration fields is an 'ACTIVITIES' section with three sub-sections: 'Numbers' (0 Added, 0 Updated, 0 Deleted), 'Numbers in IXM WEB' (0 Added, 0 Updated, 0 Deleted), and 'Times' (Last run at, Next run at). At the bottom of the activities section, there are three buttons: 'Download IXM WEB Add-On', 'Sync Now', and 'Sync All'.

Figure 28: IXM WEB – Download IXM WEB Add-On

 Note: The executable file should be downloaded on the same path as that of Genetec server.

Install IXM WEB Add-On

Procedure

STEP 1

Double click on the downloaded IXM WEB Add-On file in its path to start the Setup Wizard.

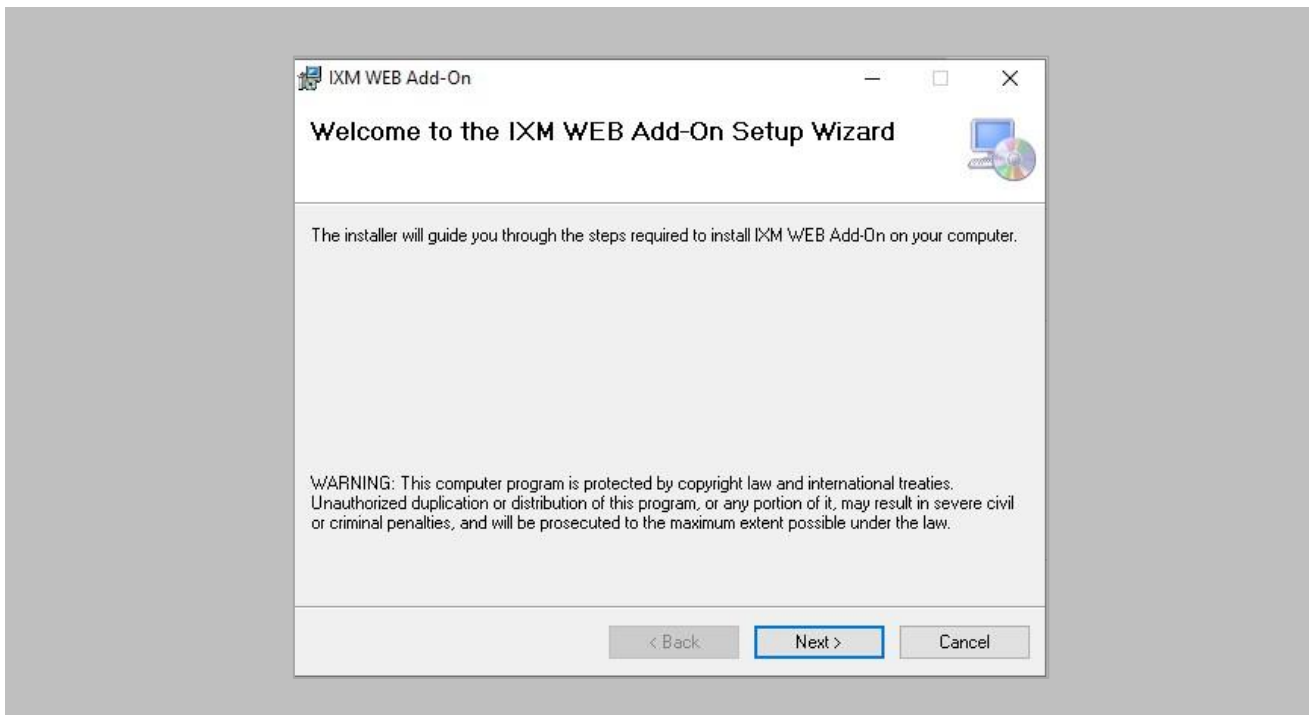


Figure 29: IXM WEB – Add-On Setup Wizard

Click **Next**.

STEP 2

The installer will install IXM WEB Add-On to the default folder. To install to a different folder, enter the path or click 'Browse'.

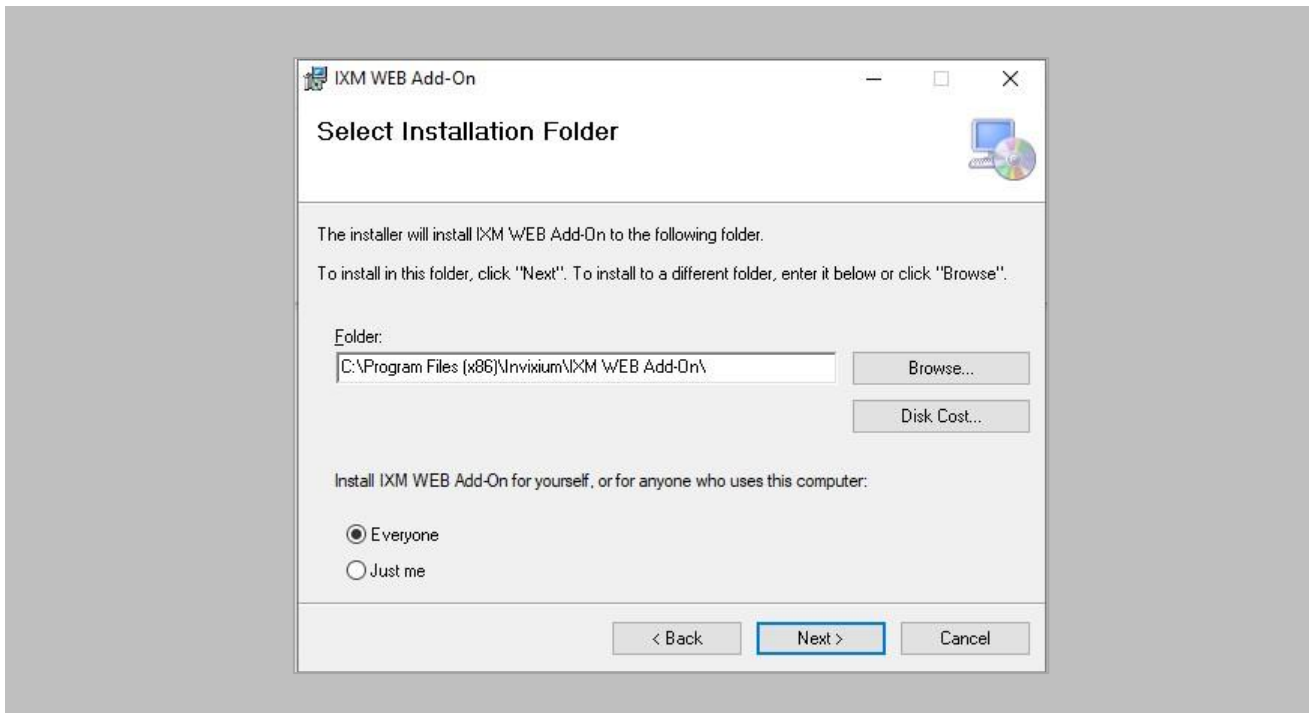


Figure 30: IXM WEB – Select Installation Folder

Click **Next**.

STEP 3

The installer is ready to install IXM WEB Add-On on the given path.

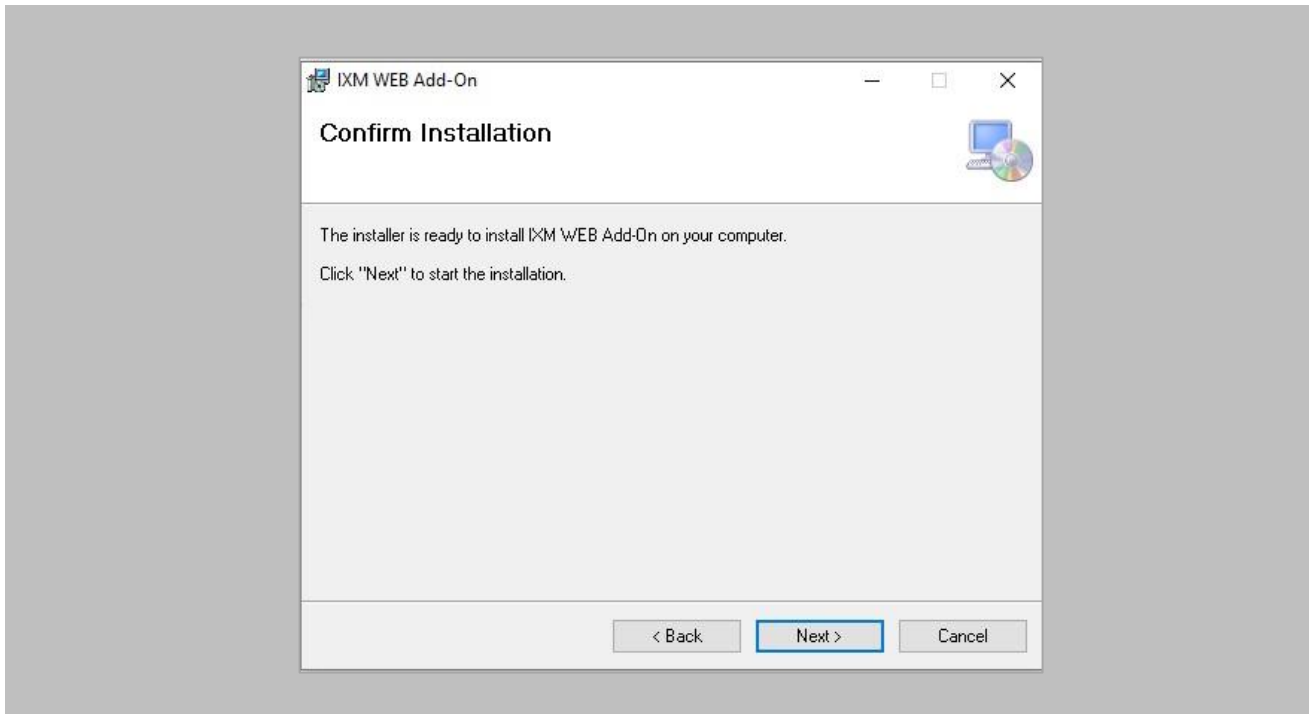


Figure 31: IXM WEB – Confirm Installation

Click **Next**.

STEP 4

Installation of IXM WEB Add-On is complete.

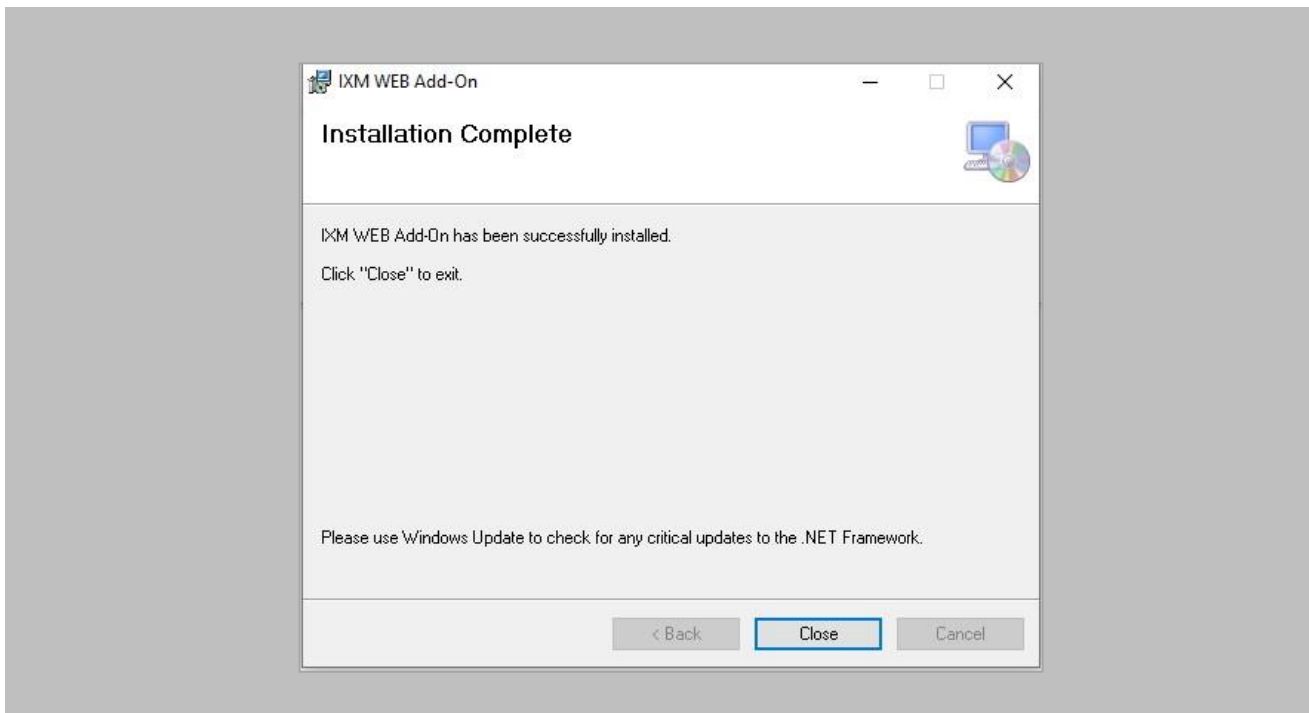


Figure 32: IXM WEB – Add-On Installation Complete

Click **Close**.

12. Create System User(s) for Biometric Enrollment

Creating System User(s) for Biometric Enrollment

Procedure

STEP 1

Log into IXM WEB.

On the top right of default page, click on the **User Menu** → Click **Users**. The application will redirect to the System Users window.

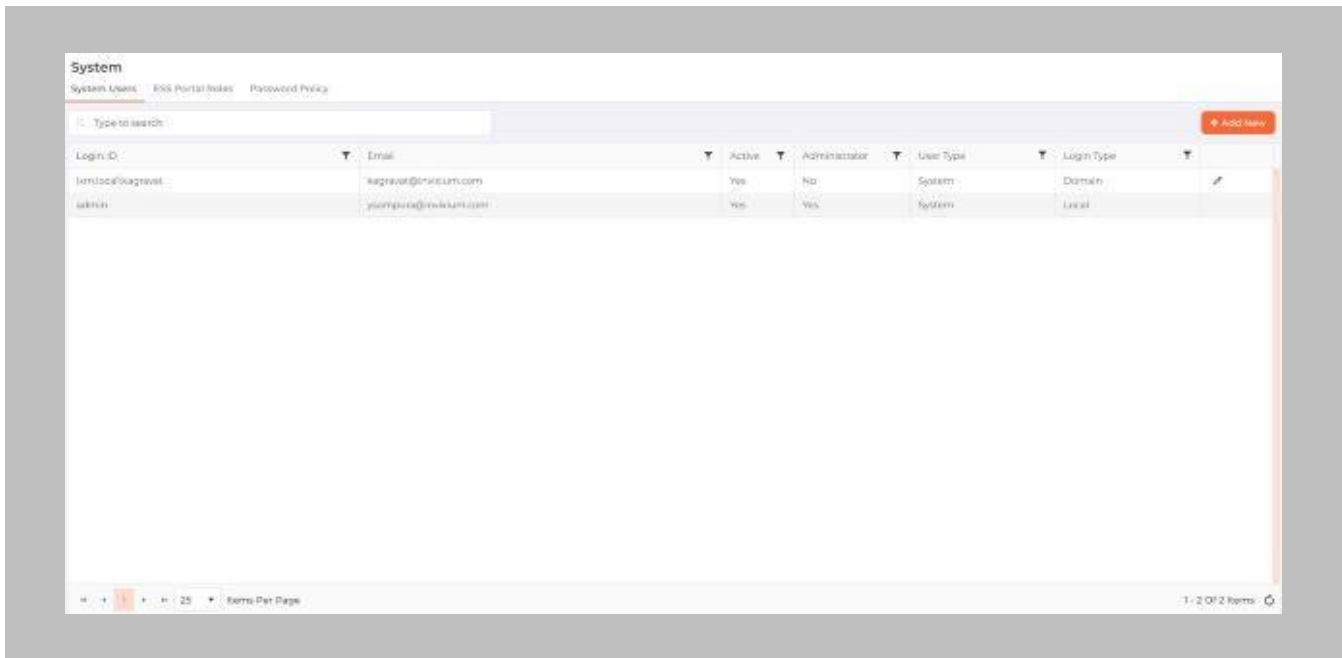


Figure 33: IXM WEB - Create System User

STEP 2

Click **Add New**.

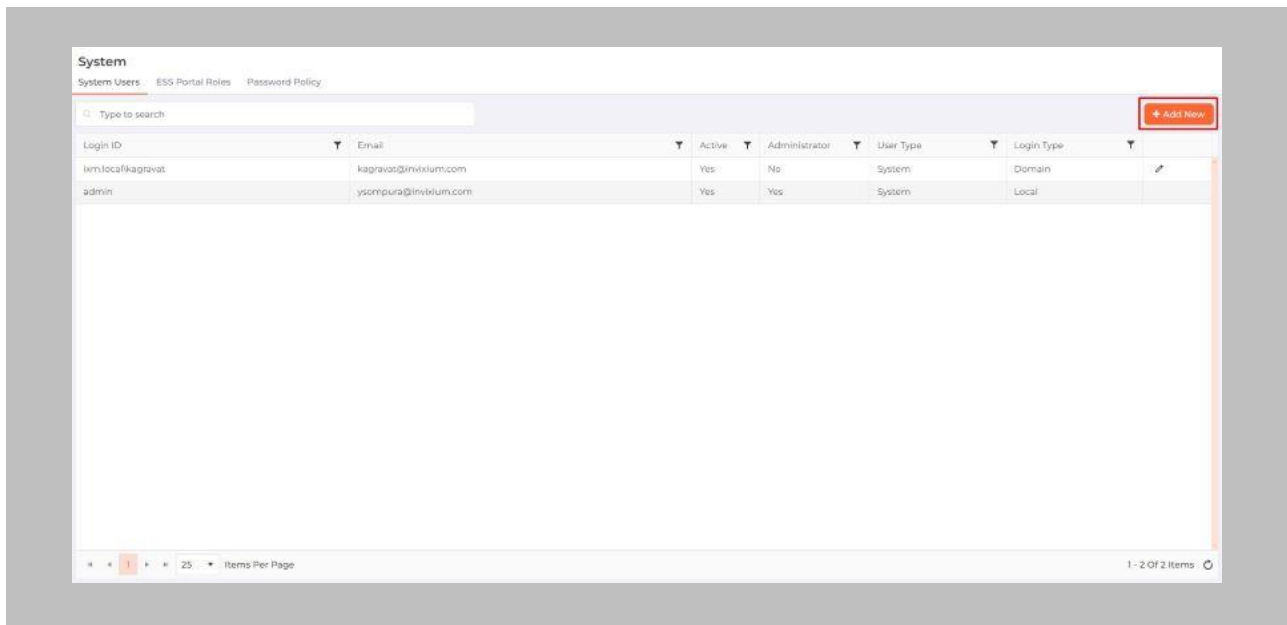


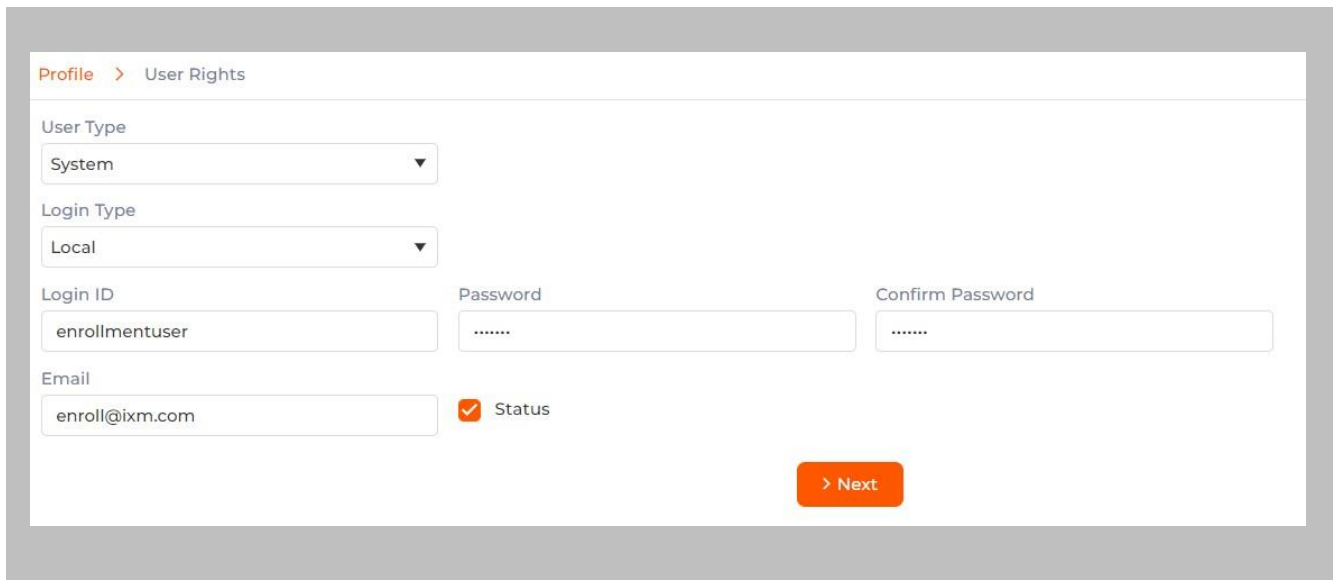
Figure 34: IXM WEB - Add New System User

Creating a system user requires the following details:

- Login type
 - i. Local employee
 - ii. Domain employee
- Inviaxium ID (User ID) (For domain employee login types, the User ID is automatically filled from AD)
- Password creation (For domain employee login types, password creation is not required)
- Email address
- Status
- Permission for modules

STEP 3

Select **Login Type (Local or Domain Employee)** from the dropdown list.



Profile > User Rights

User Type
System

Login Type
Local

Login ID
enrollmentuser

Password
.....

Confirm Password
.....

Email
enroll@ixm.com

Status

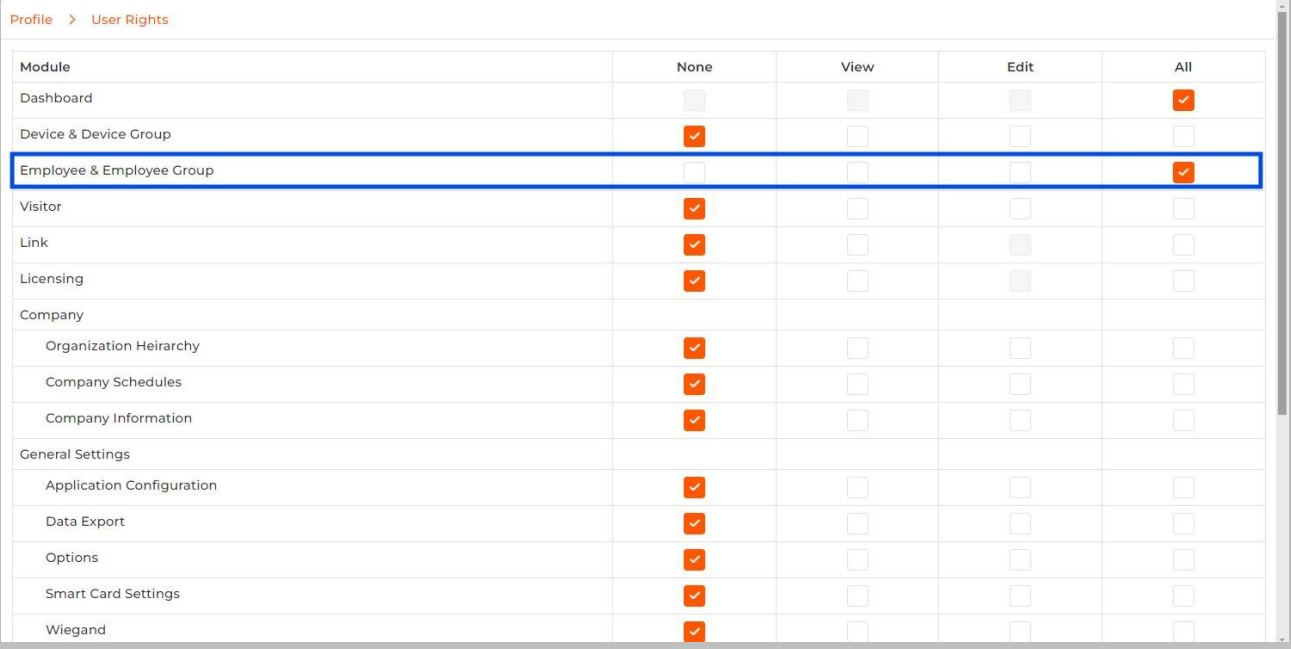
> Next

Figure 35: IXM WEB - New System User

STEP 4

Add an email address.

Apply for permission as “All” for **Employee & Employee Group** module.



Module	None	View	Edit	All
Dashboard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Device & Device Group	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Employee & Employee Group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Visitor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Link	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Licensing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Company				
Organization Heirarchy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Company Schedules	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Company Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General Settings				
Application Configuration	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data Export	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Options	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Smart Card Settings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wiegand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Figure 36: Employee and Employee Group Rights

STEP 5

Click **Save**.

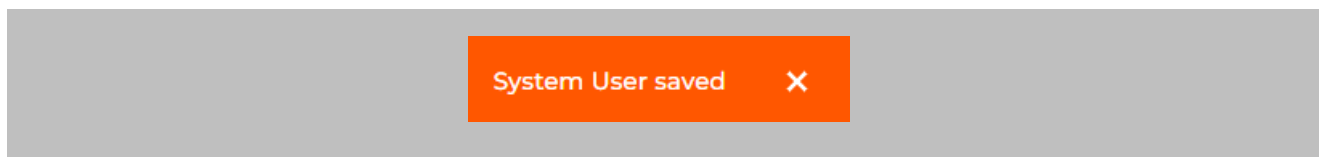


Figure 37: IXM WEB - Save System User

13. Add and Configure Invixium Readers

Adding an Invixium Reader in IXM WEB

Procedure

STEP 1

Click the **Devices** tab.

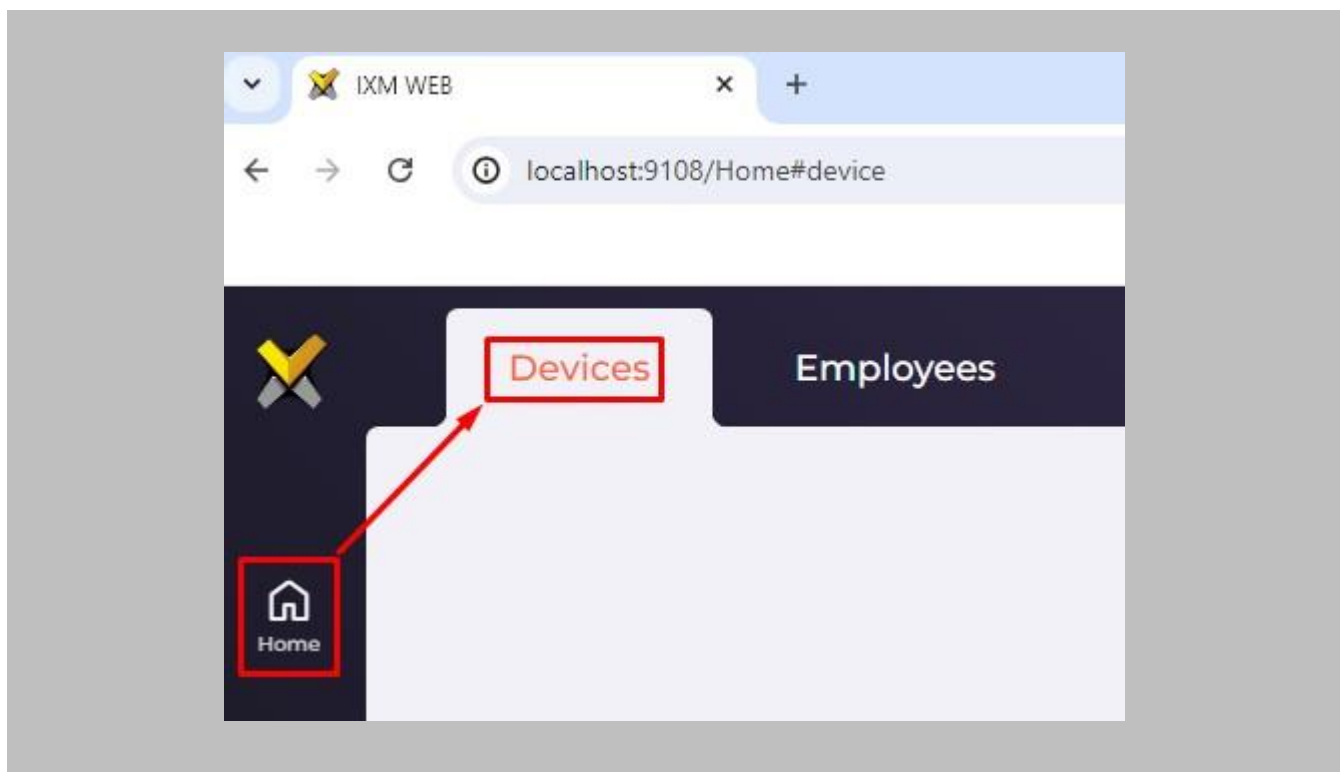
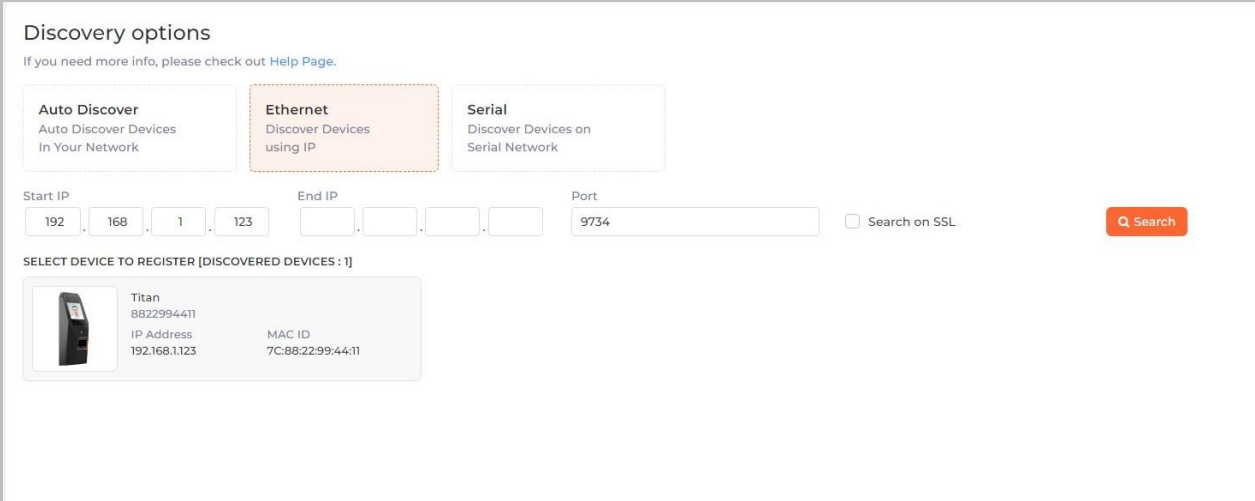


Figure 38: IXM WEB - Devices Tab

STEP 2

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.



Discovery options

If you need more info, please check out [Help Page](#).

Auto Discover
Auto Discover Devices
In Your Network

Ethernet
Discover Devices
using IP

Serial
Discover Devices on
Serial Network

Start IP: 192 . 168 . 1 . 123 End IP: Port: 9734 Search on SSL **Search**

SELECT DEVICE TO REGISTER [DISCOVERED DEVICES : 1]


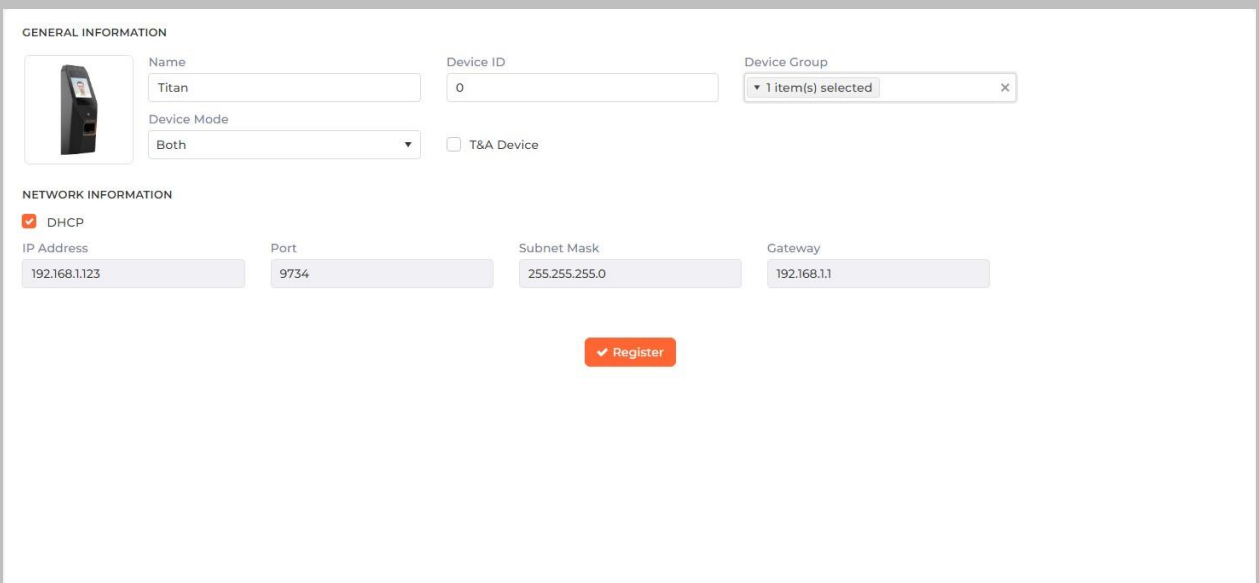
	Titan 8822994411
IP Address	MAC ID
192.168.1.123	7C:88:22:99:44:11

Figure 39: 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 a web form for registering a device. It is divided into two main sections: GENERAL INFORMATION and NETWORK INFORMATION.

GENERAL INFORMATION

- Name:** Titan
- Device ID:** 0
- Device Group:** 1 item(s) selected
- Device Mode:** Both
- T&A Device

NETWORK INFORMATION

- DHCP
- IP Address:** 192.168.1.123
- Port:** 9734
- Subnet Mask:** 255.255.255.0
- Gateway:** 192.168.1.1

At the bottom center of the form is a red button with a white checkmark and the text "Register".

Figure 40: 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.

STEP 5

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

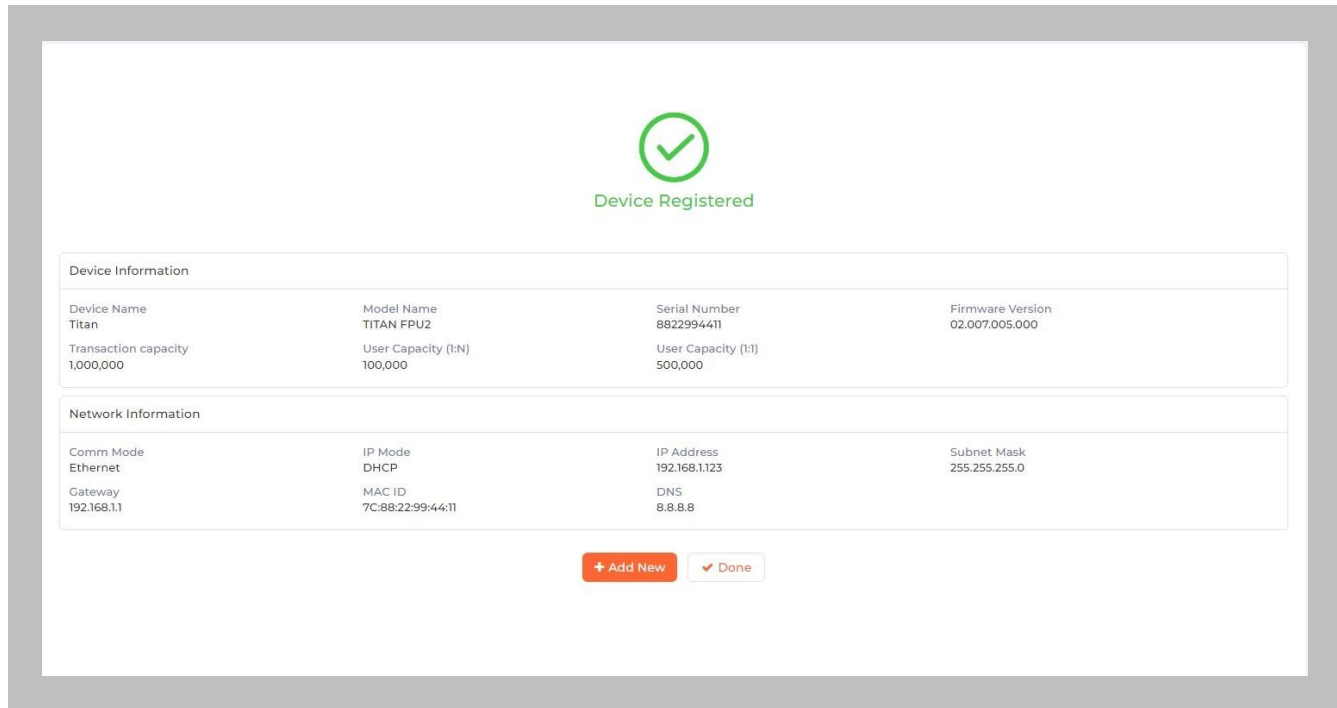


Figure 41: IXM WEB - Device Registration Complete

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).

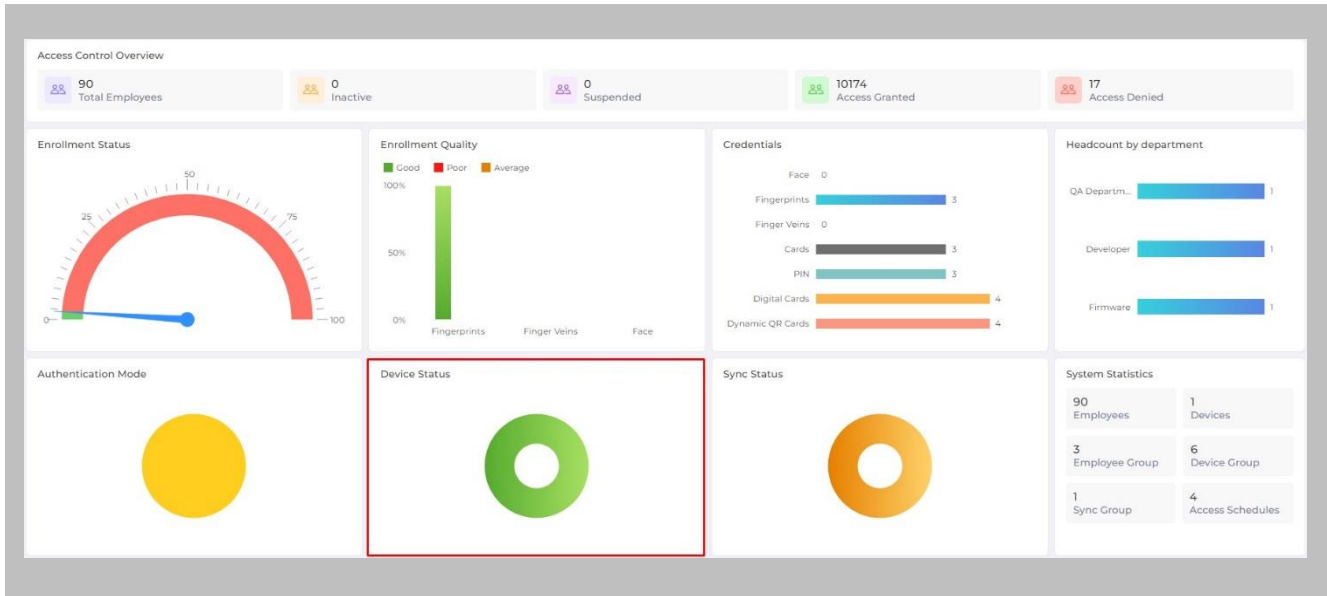


Figure 42: IXM WEB - Dashboard, Device Status

14. 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) → click on **Add to Group** icon visible next to search box → Search and select required group name → Click **Add**.

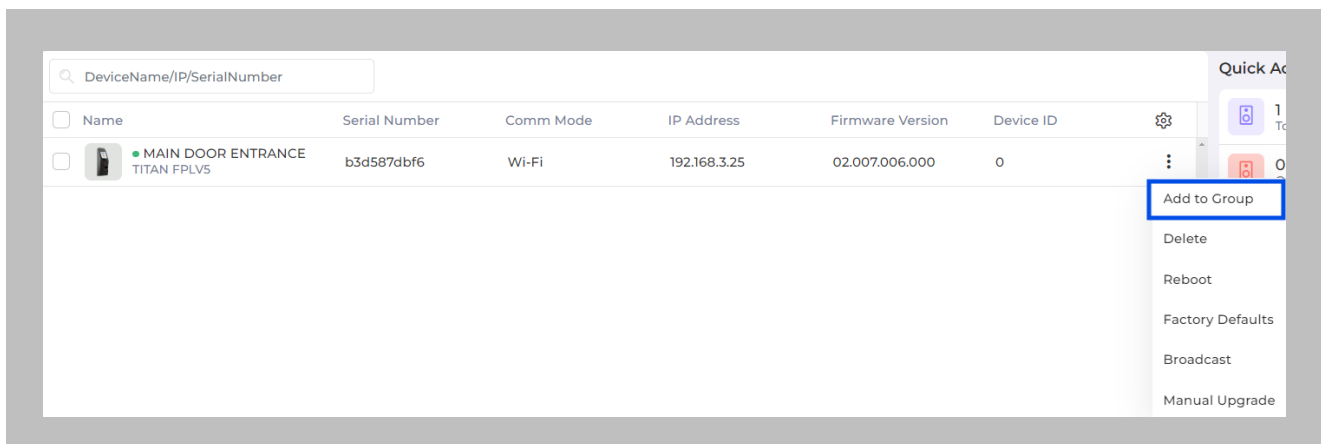



Figure 43: IXM WEB - Assign Device Group

Configuring Wiegand Format to Assign Invixium Readers

 **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**.

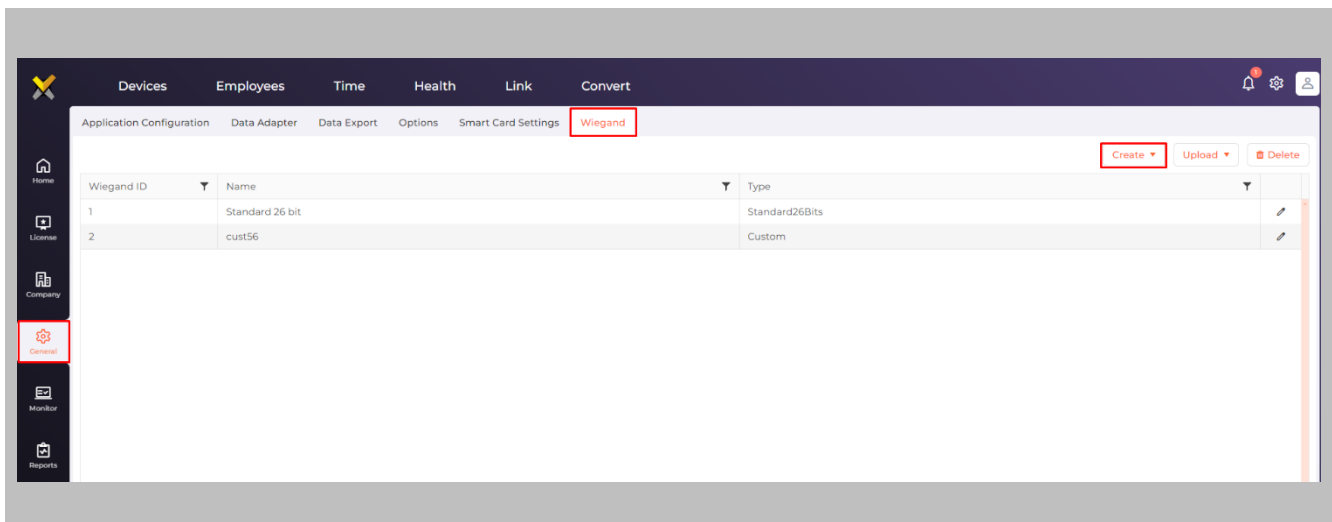


Figure 44: IXM WEB - Create Wiegand Format

STEP 2

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

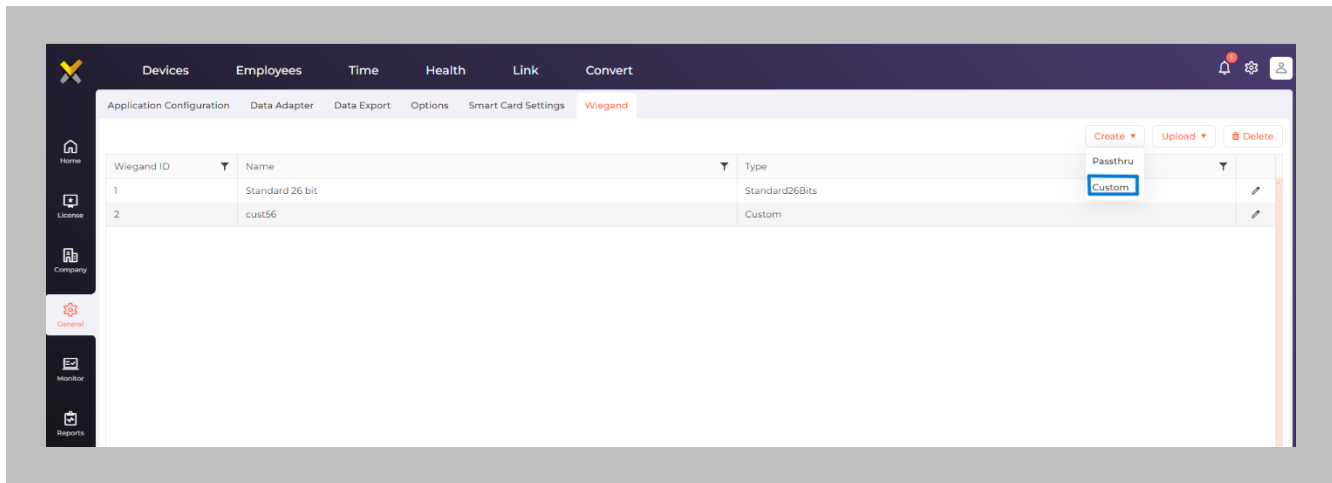


Figure 45: IXM WEB - Create Custom Wiegand Format

STEP 3

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.

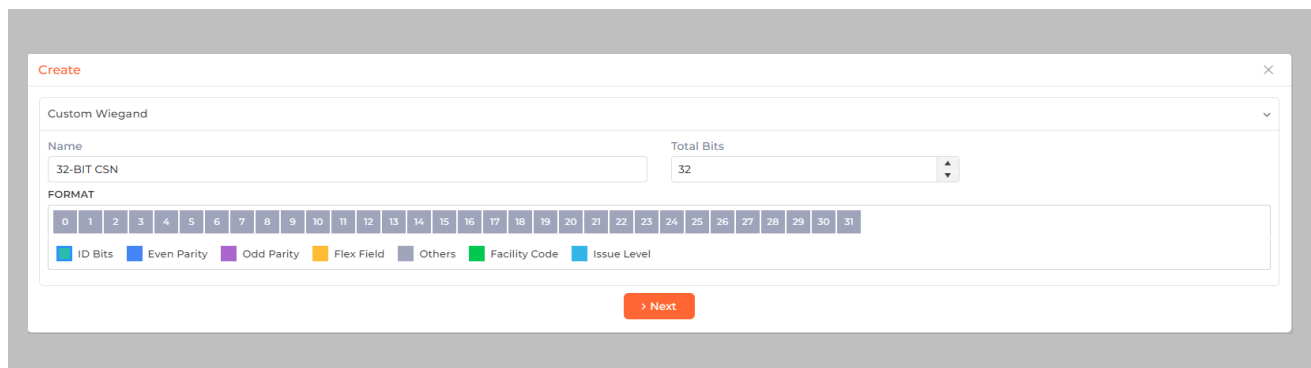


Figure 46: IXM WEB - Custom Wiegand Format

STEP 4

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

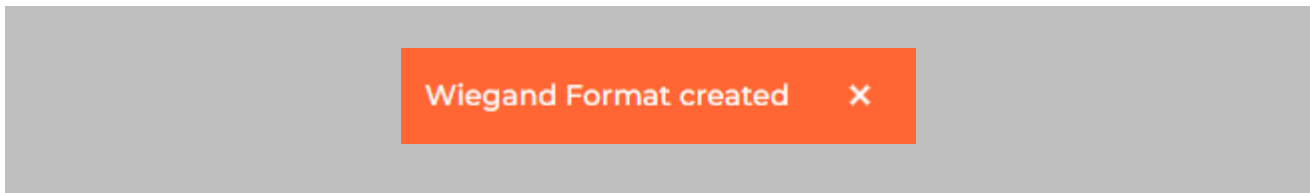


Figure 47: IXM WEB – Custom Wiegand Format Created

STEP 5

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

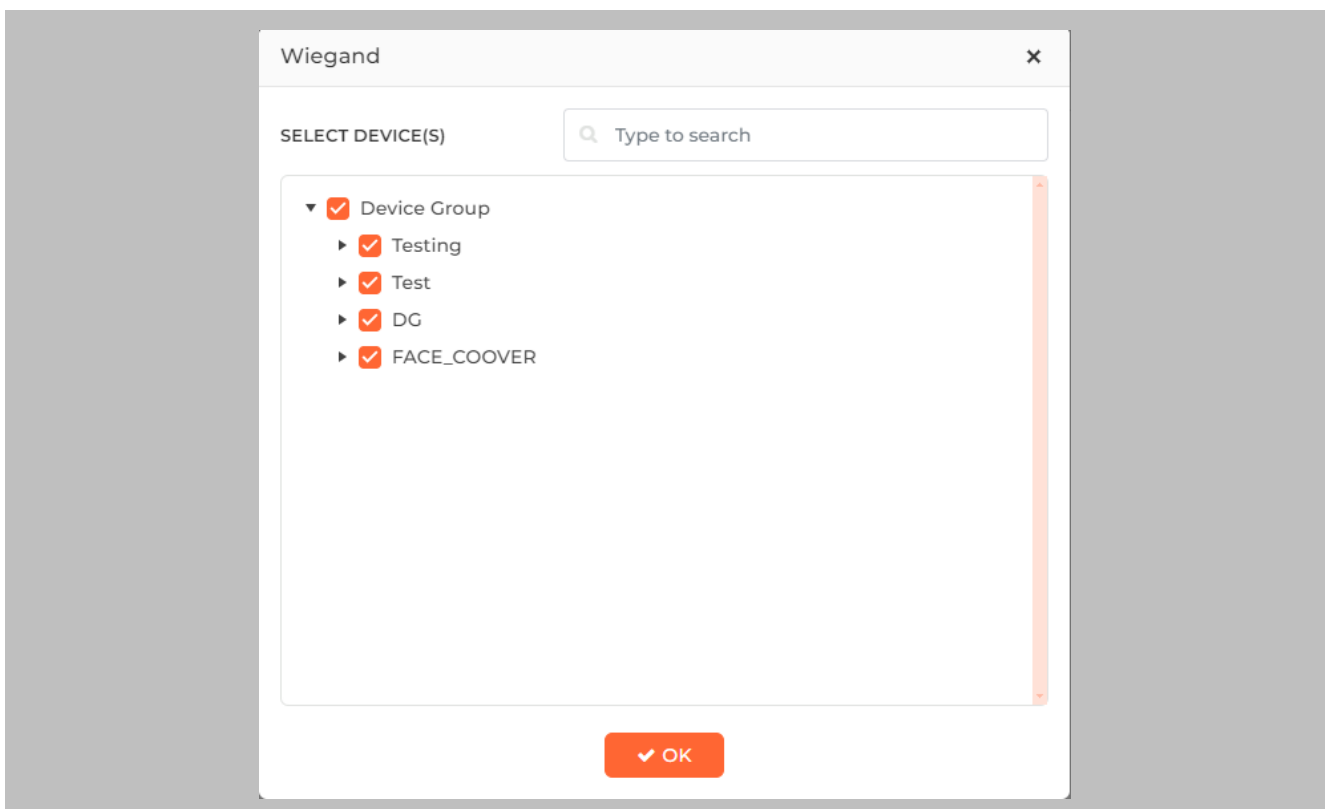


Figure 48: IXM WEB - Upload Wiegand Format

Assign Wiegand to Invixium Readers

Note: Face and finger will always give a Wiegand output based on the initial card that was synced from Gentec to Invixium.

The created Wiegand will be used to define which output format will be sent to GSC.

STEP 1

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

STEP 2

Navigate to the **Access Control** tab.

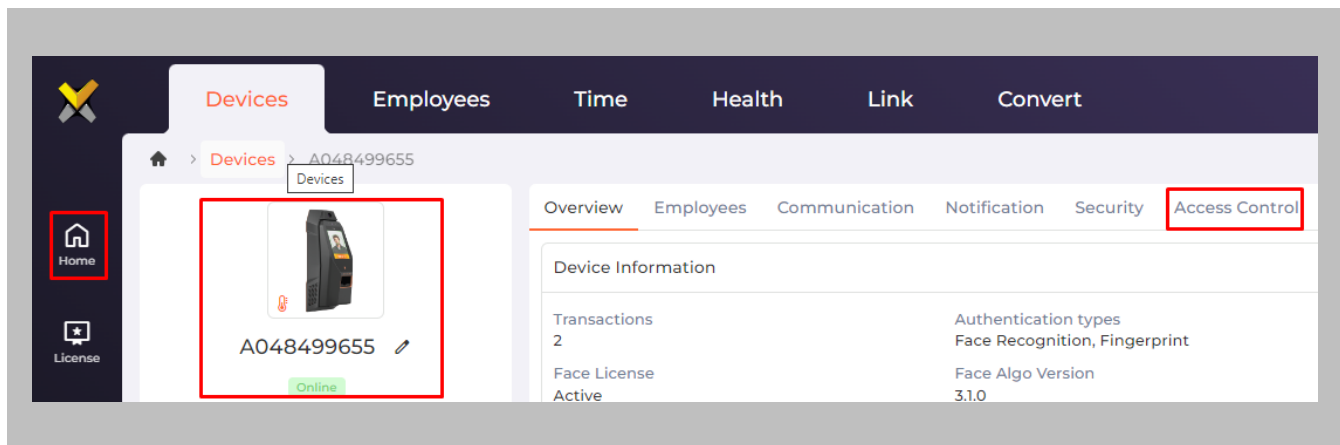


Figure 49: IXM WEB - Navigate to Access Control Tab

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.

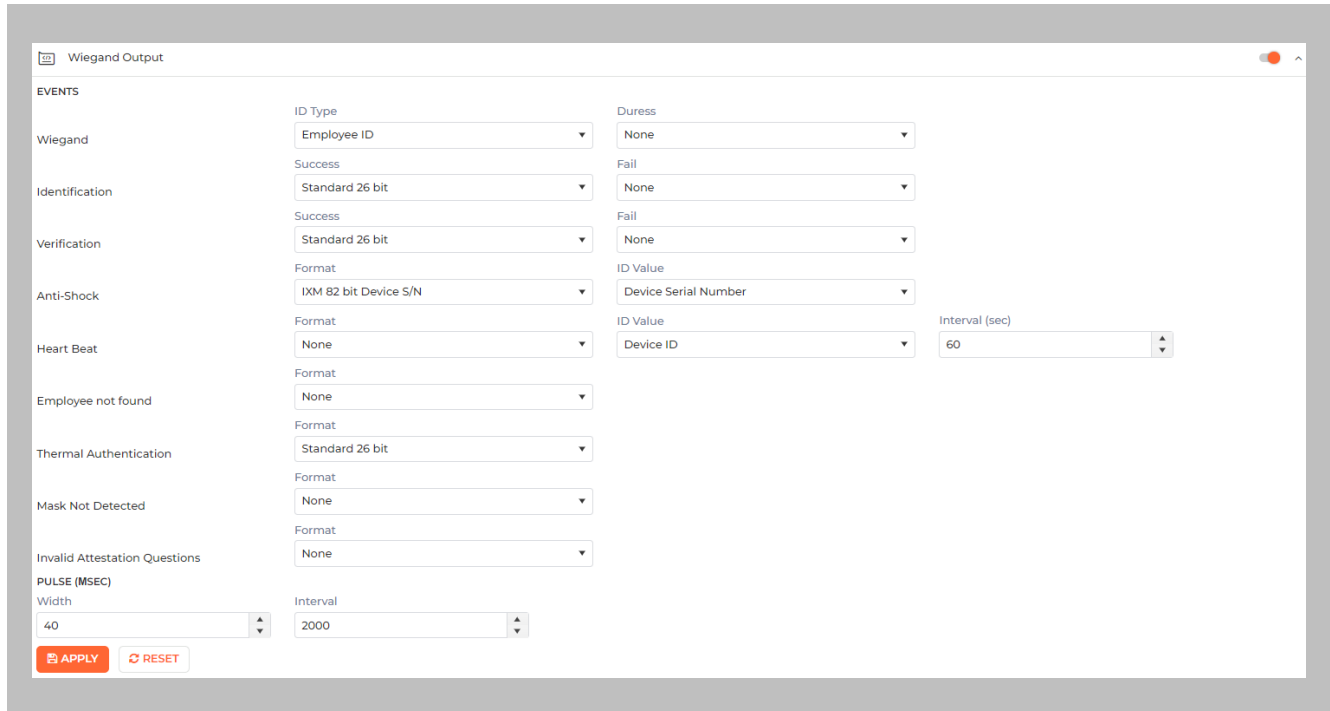


Figure 50: IXM WEB - Wiegand Output

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 Genetec, select either Default Card or Actual Card.

Employee ID: This is auto generated ID by IXM WEB for an imported cardholder in Genetec.

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**.

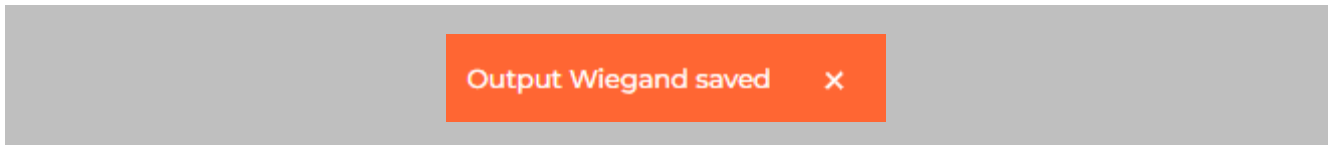


Figure 51: IXM WEB - Save Output Wiegand

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 GSC controller.
- To make this Wiegand output work on Genetec, you will need to make sure the Wiegand format is available in Genetec for use on the controllers talking to the Invixium reader (by Wiegand or OSDP).

Configuring Panel Feedback with Genetec

Procedure

STEP 1

Connect Wiegand Data D0 of the Genetec Panel with **WDATA_OUT0** of the IXM device, Wiegand Data D1 of the Genetec Panel with WDATA_OUT1, and Wiegand Ground of the Genetec Panel with WGND of the IXM Device.

STEP 2

Connect the **LED** of the Genetec 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**.

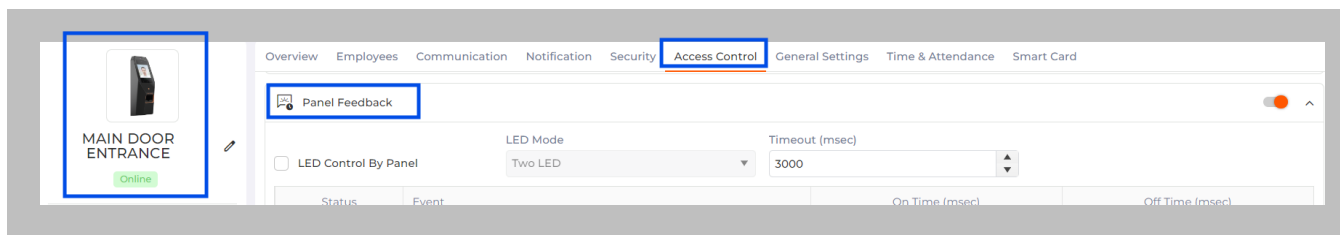
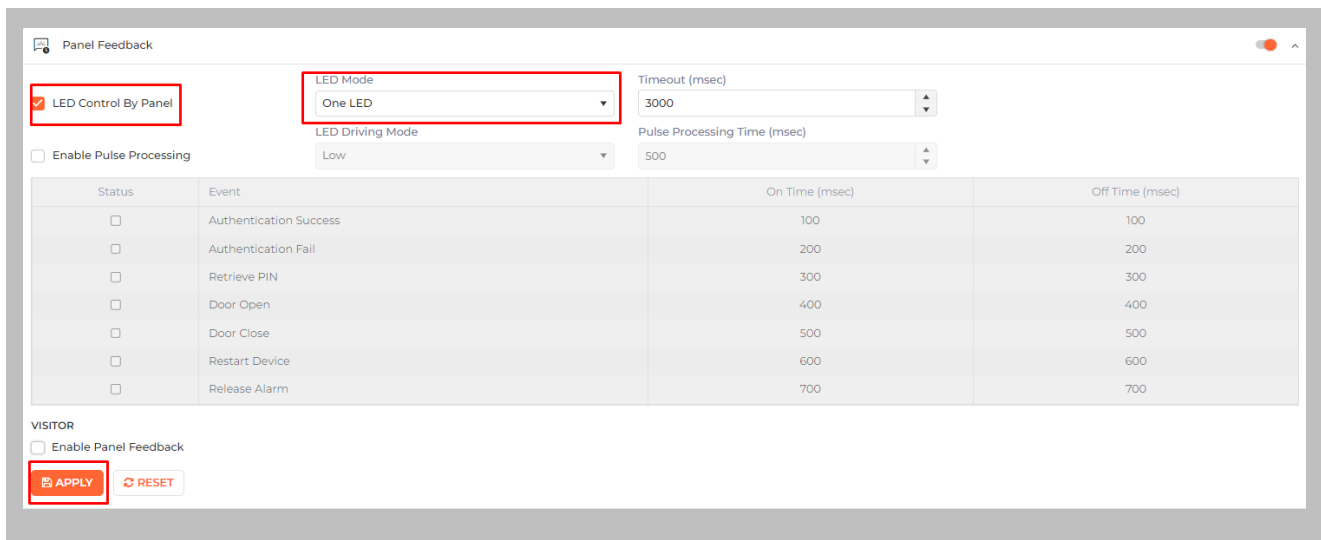


Figure 52: IXM WEB - Panel Feedback

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**.



Panel Feedback

LED Control By Panel

LED Mode: One LED

Timeout (msec): 3000

Enable Pulse Processing

LED Driving Mode: Low

Pulse Processing Time (msec): 500

Status	Event	On Time (msec)	Off Time (msec)
<input type="checkbox"/>	Authentication Success	100	100
<input type="checkbox"/>	Authentication Fail	200	200
<input type="checkbox"/>	Retrieve PIN	300	300
<input type="checkbox"/>	Door Open	400	400
<input type="checkbox"/>	Door Close	500	500
<input type="checkbox"/>	Restart Device	600	600
<input type="checkbox"/>	Release Alarm	700	700

VISITOR

Enable Panel Feedback

Figure 53: IXM WEB - Configuring Panel Feedback in IXM WEB

STEP 5

Click **Apply**.

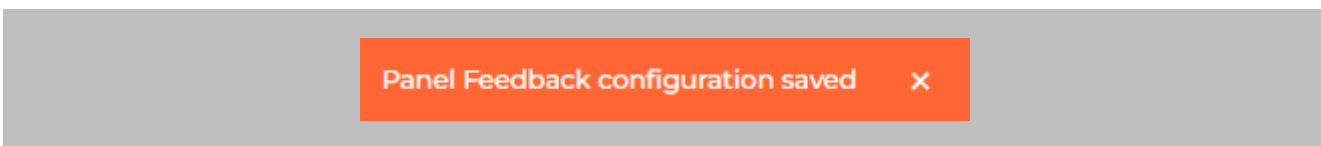


Figure 54: IXM WEB - Save Panel Feedback

Configuring Thermal Settings



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.

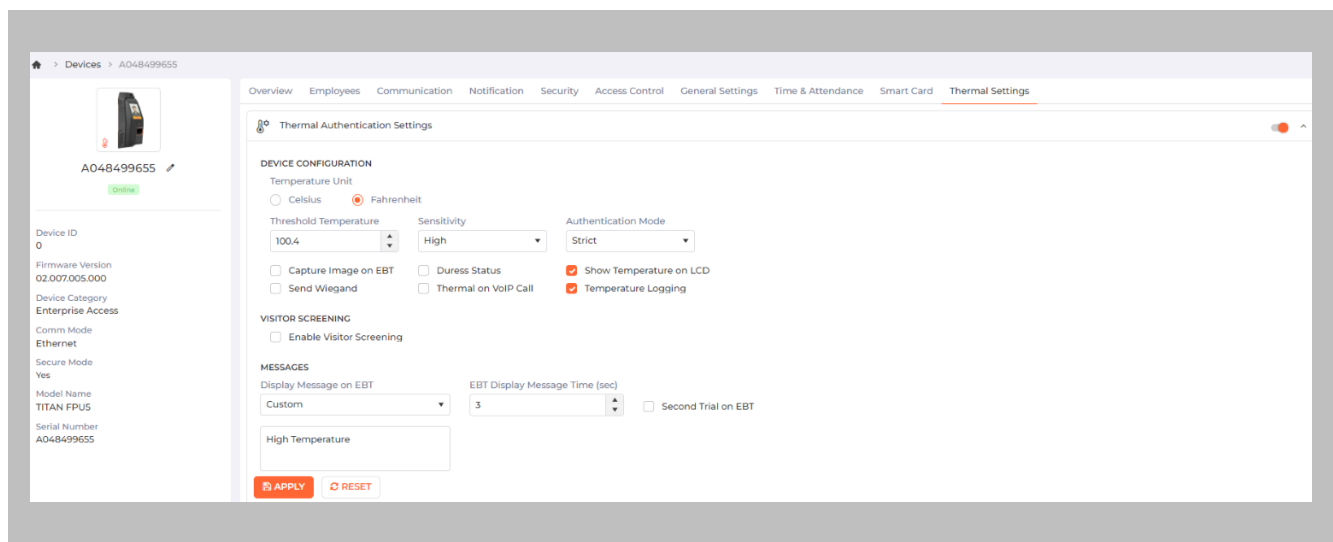


Figure 55: IXM WEB - Thermal Settings

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.
 - **Soft:** Access will be granted to the End-user even after the fever is detected.
 - **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.

STEP 3

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

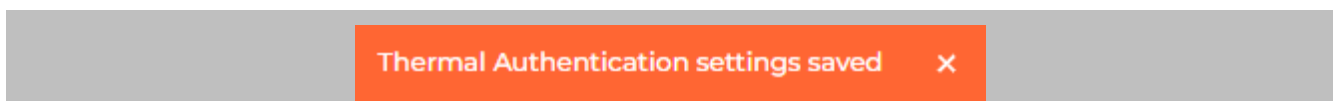


Figure 56: IXM WEB - Save Thermal Settings

Thermal Calibration

STEP 1

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

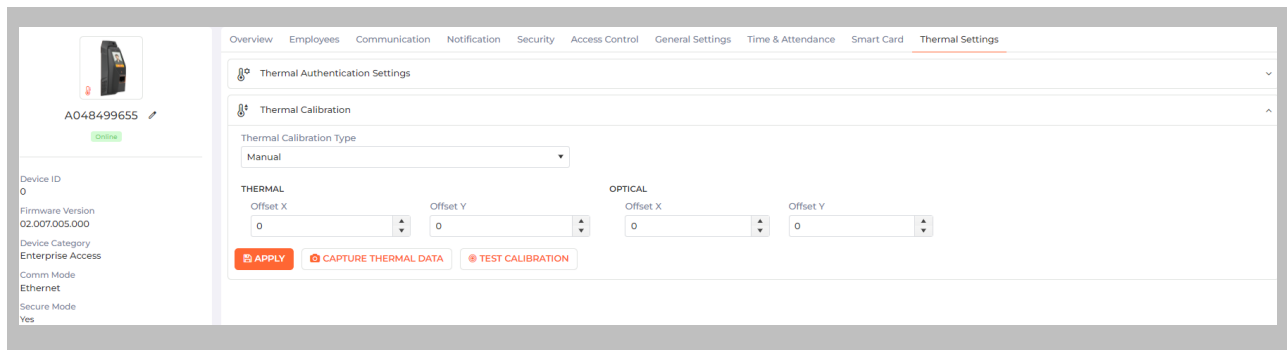


Figure 57: IXM WEB - Thermal Calibration Settings

STEP 2

The settings along with their functions are:

- **Thermal Calibration Type:**
 - Manual
 - Face
 - 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**.

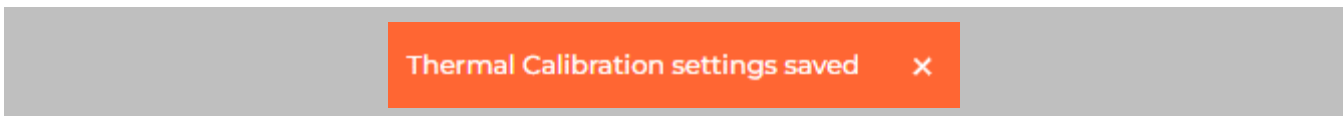


Figure 58: IXM WEB - Save Thermal Calibration Settings

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 59: IXM WEB - Capture Thermal Data

STEP 4

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

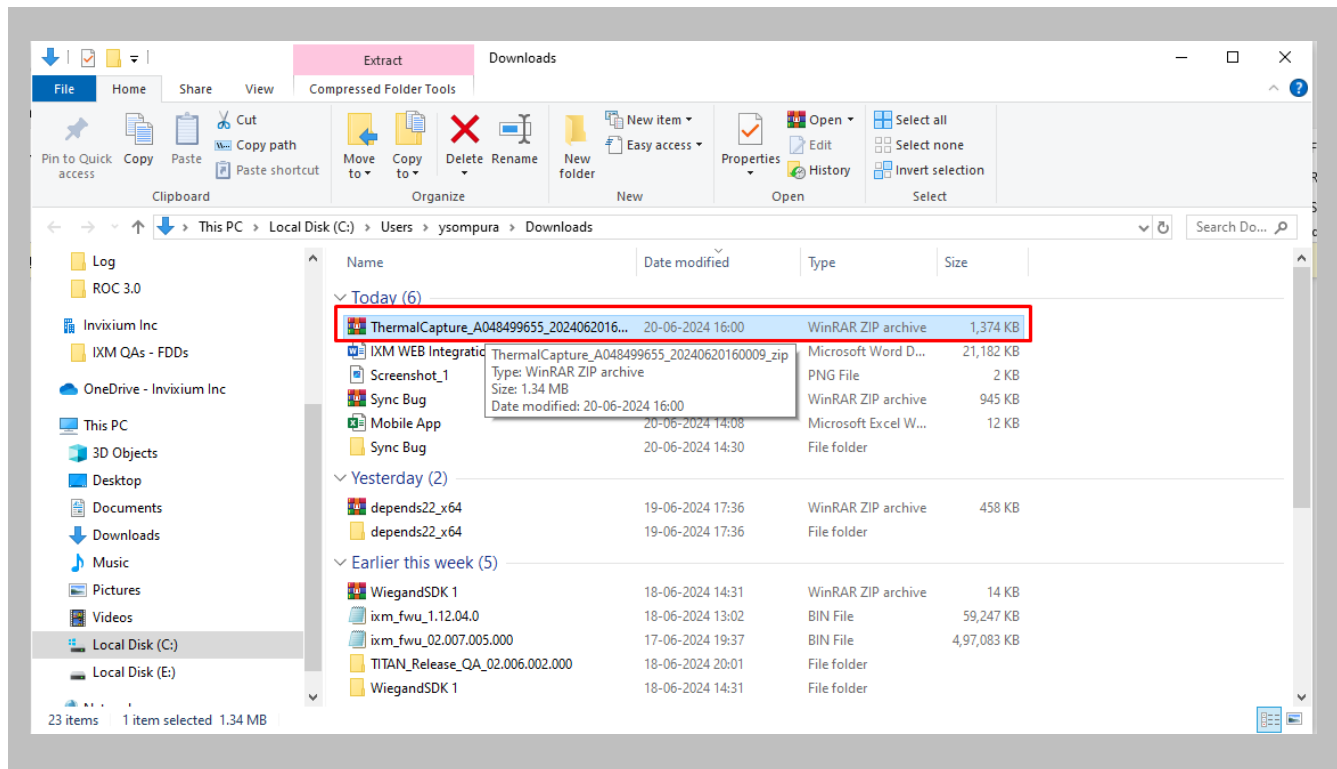



Figure 60: IXM WEB - Save Captured Thermal Data

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**.

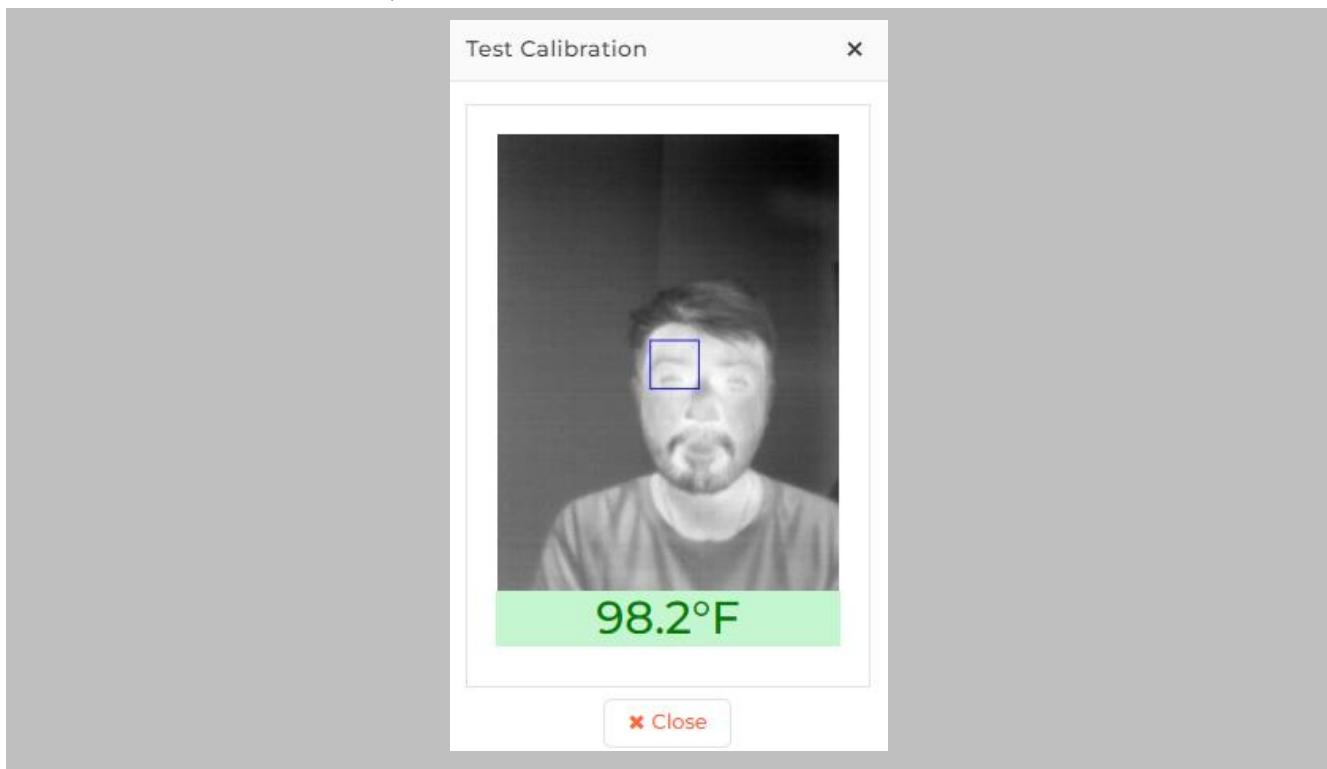


Figure 61: IXM WEB - Test Thermal Calibration

 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**.

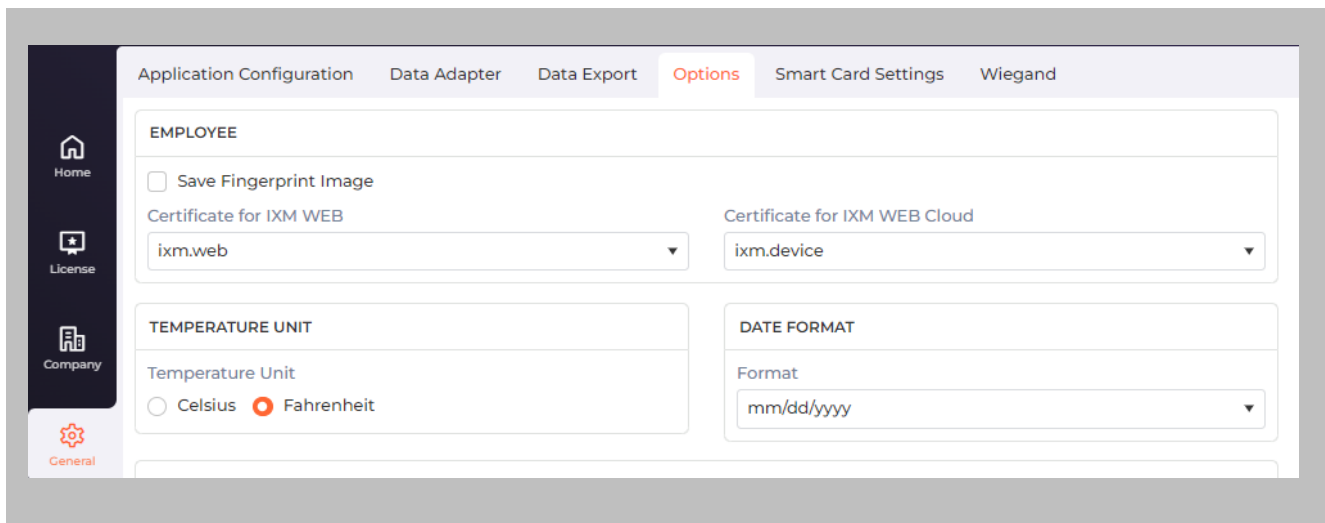
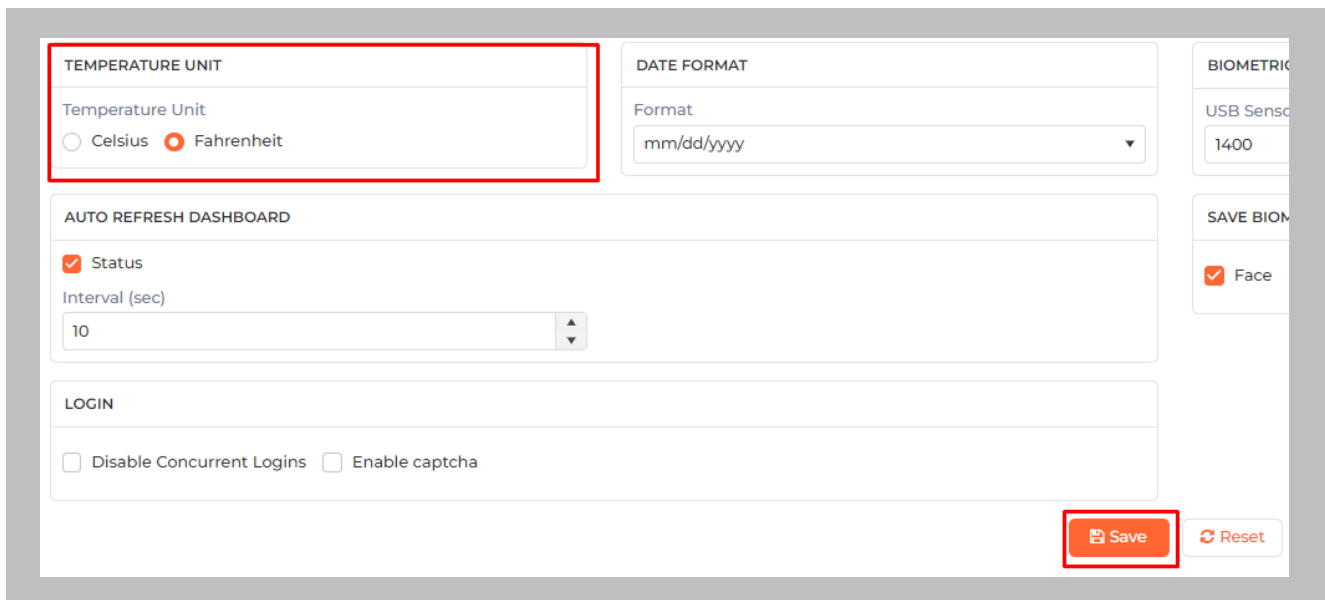


Figure 62: IXM WEB - Option to Change Temperature Unit

STEP 2

Select required temperature unit. Click **Save**.



The screenshot displays the configuration interface for the IXM WEB system. The 'TEMPERATURE UNIT' section is highlighted with a red box and contains the following elements:

- TEMPERATURE UNIT**
- Temperature Unit
- Celsius
- Fahrenheit

Other visible sections include:

- DATE FORMAT**: Format dropdown menu set to 'mm/dd/yyyy'.
- AUTO REFRESH DASHBOARD**: Status, Interval (sec) dropdown set to '10'.
- LOGIN**: Disable Concurrent Logins, Enable captcha.
- BIOMETRIC**: USB Senc, 1400.
- SAVE BIOM**: Face.

At the bottom right, there are two buttons: **Save** (highlighted with a red box) and **Reset**.

Figure 63: 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.

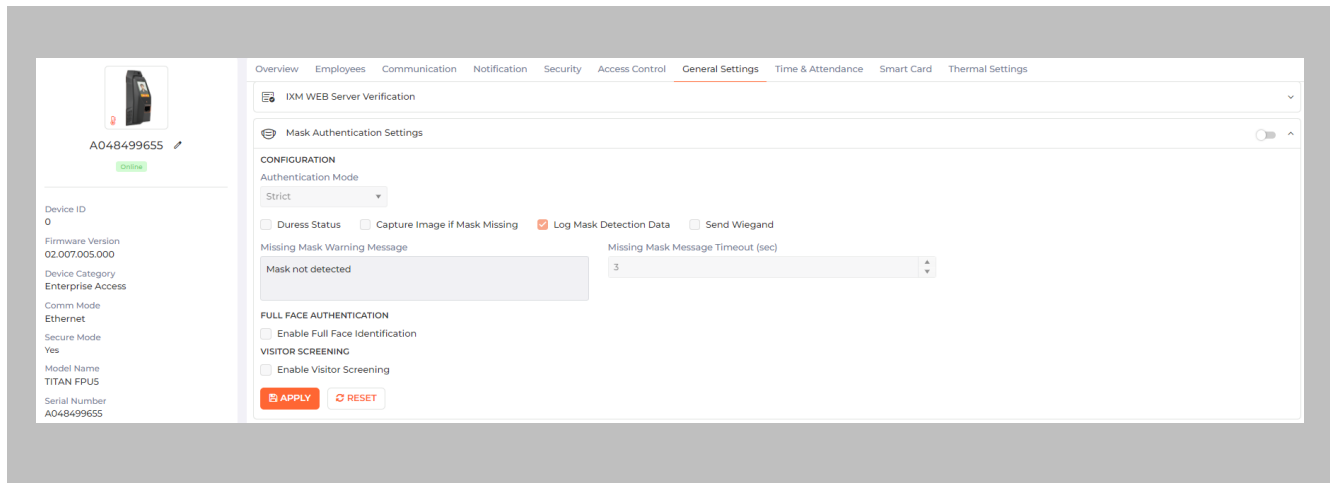


Figure 64: IXM WEB - Mask Authentication Settings

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**.

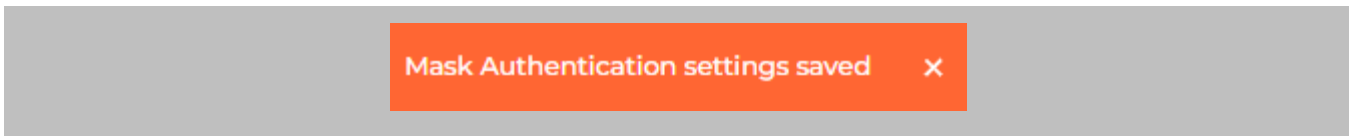


Figure 65: IXM WEB - Save Mask Settings

15. Enrollment using Genetec Config Tool

Procedure

STEP 1

Ensure that IXM WEB Add-On has been installed on the same path as that of Genetec server.

Refer [Installing IXM WEB Add-On](#) section.

Note: Enrollment can be done using Config Tool as well as Security Desk.

STEP 2

Restart the Config Tool once installation of IXM WEB Add-On is complete. You will see the icon of IXM WEB.

STEP 3

Click **IXM WEB** and Log into Config Tool using valid credentials.

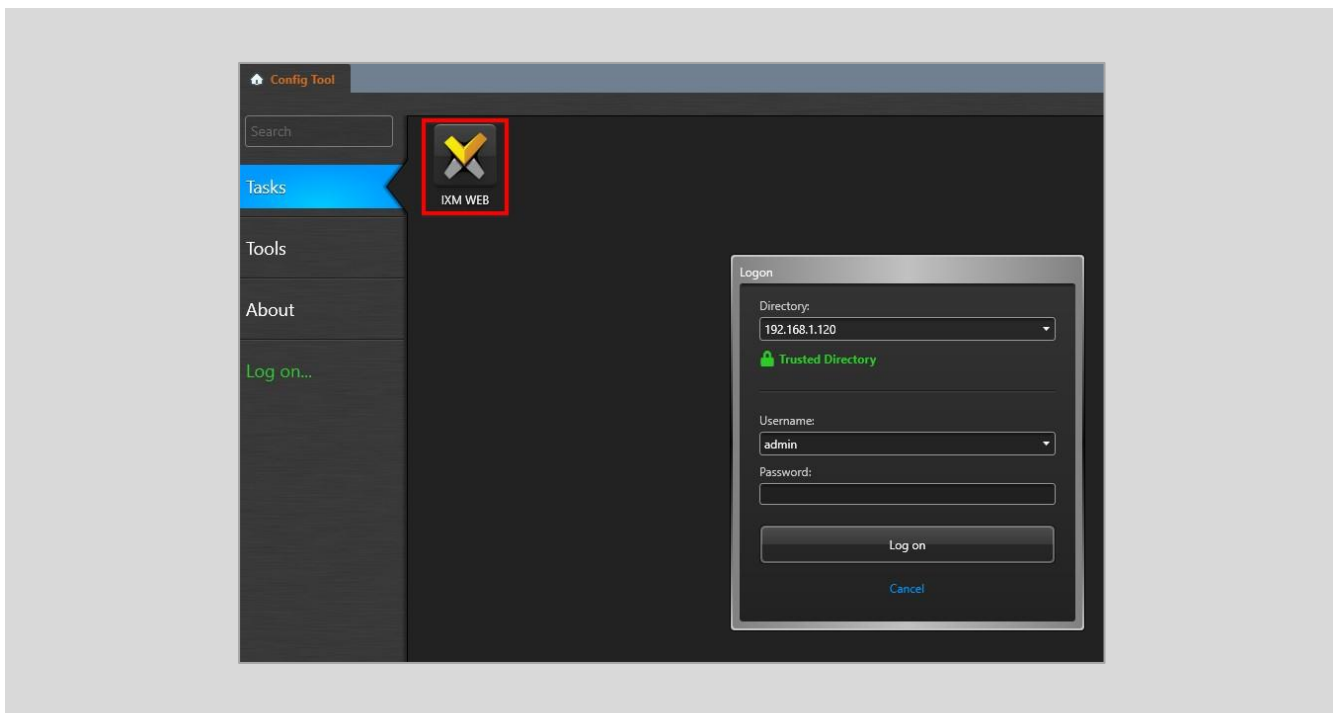


Figure 66: IXM WEB – Config Tool Logon

STEP 4

 Note: IXM WEB opens in a new window with a list of Genetec Cardholders.

Enter **IXM WEB URL**. Select the **Browser**.

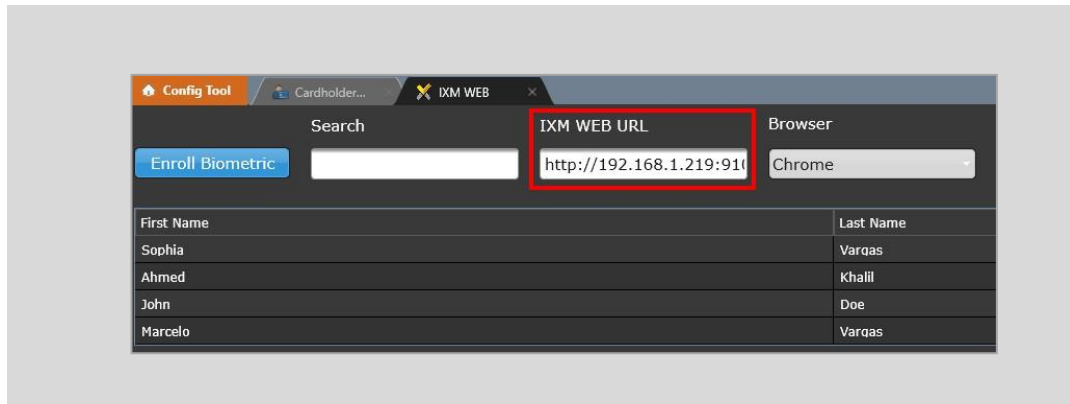


Figure 67: IXM WEB – Configure IXM WEB URL

Note:


The recommended browser is Chrome.

STEP 5

Select the desired Cardholder from the list. Click **Enroll Biometric**.

STEP 6

Enter credentials to log in to IXM WEB. Toggle “Remember Me” to stay signed in.

 Note: Log in to IXM WEB is required only once when you launch the enrollment viewer for the first time. For subsequent enrollment, this step will be skipped as you are already signed in.

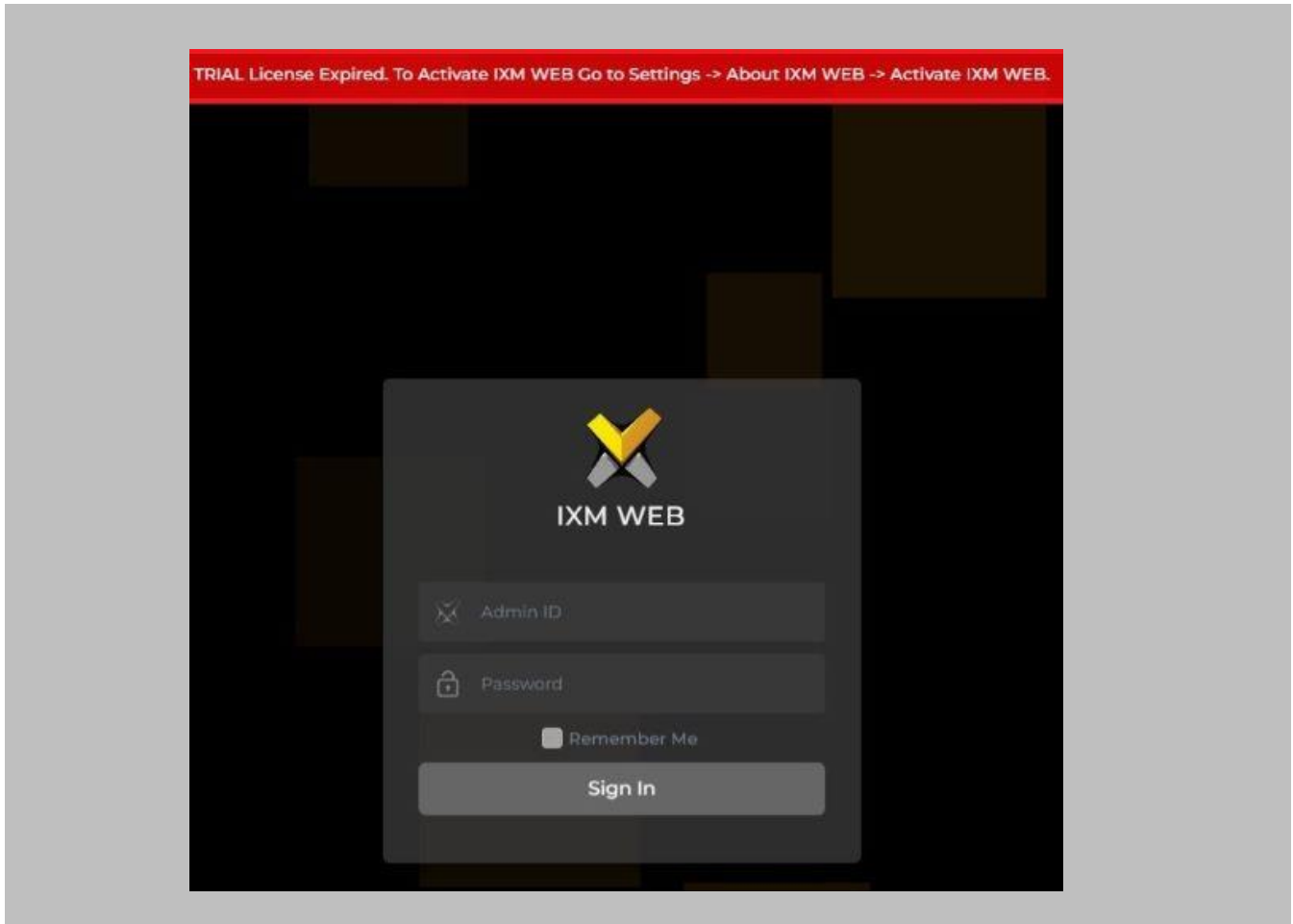


Figure 68: IXM WEB – First Time Log In

Once you are logged in, repeat STEP 5.

STEP 7

Perform Fingerprint and Face Enrollment.

Follow Invixium Enrollment guidelines for proper enrollment of faces, fingerprints, and finger veins.

Refer [Enrollment Best Practices](#) section.

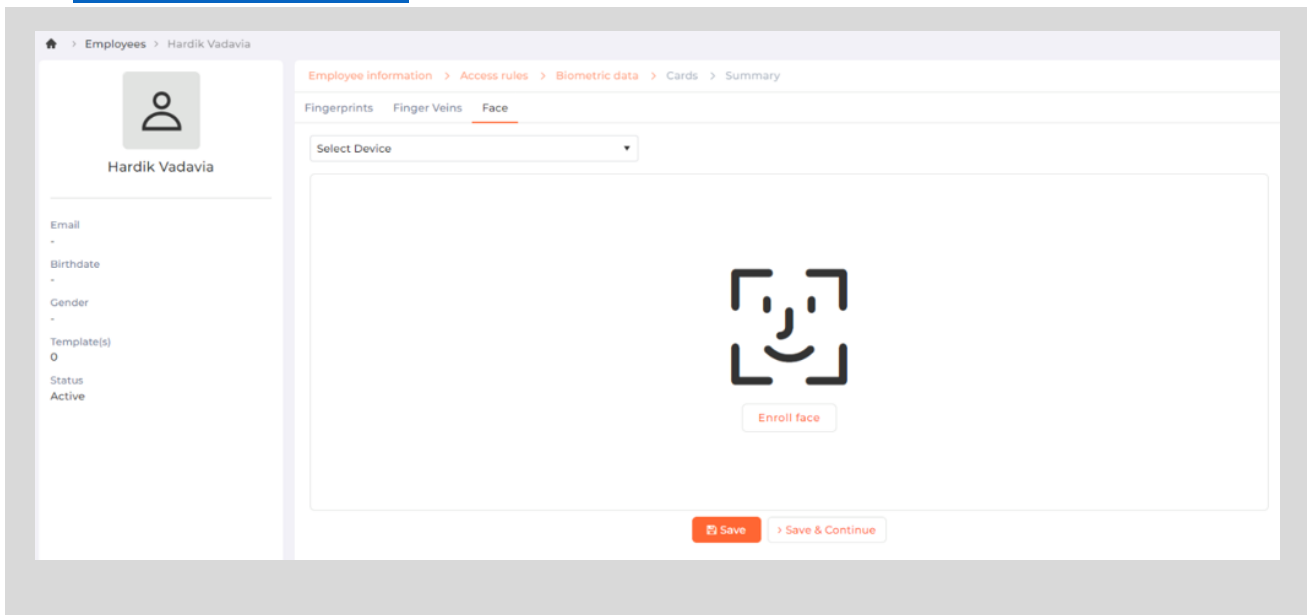


Figure 69: IXM WEB – Enrollment Viewer

16. 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.

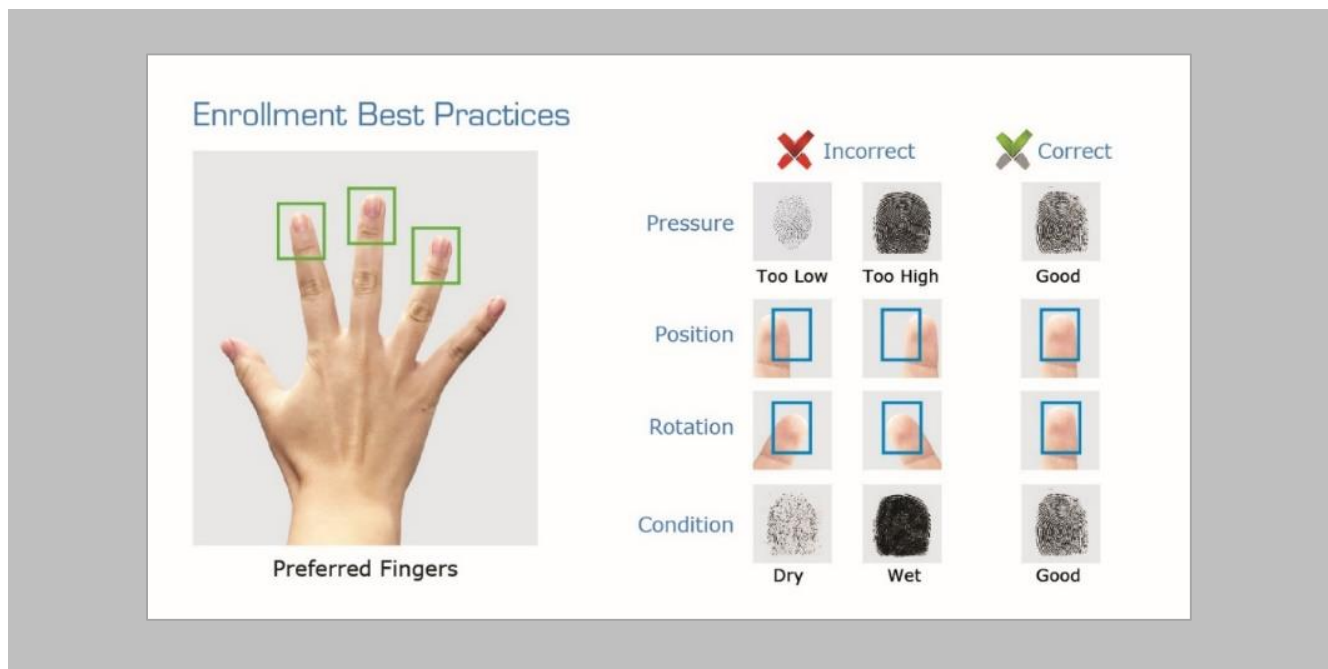


Figure 70: Fingerprint Enrollment Best Practices

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	Inxium 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 71: 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.

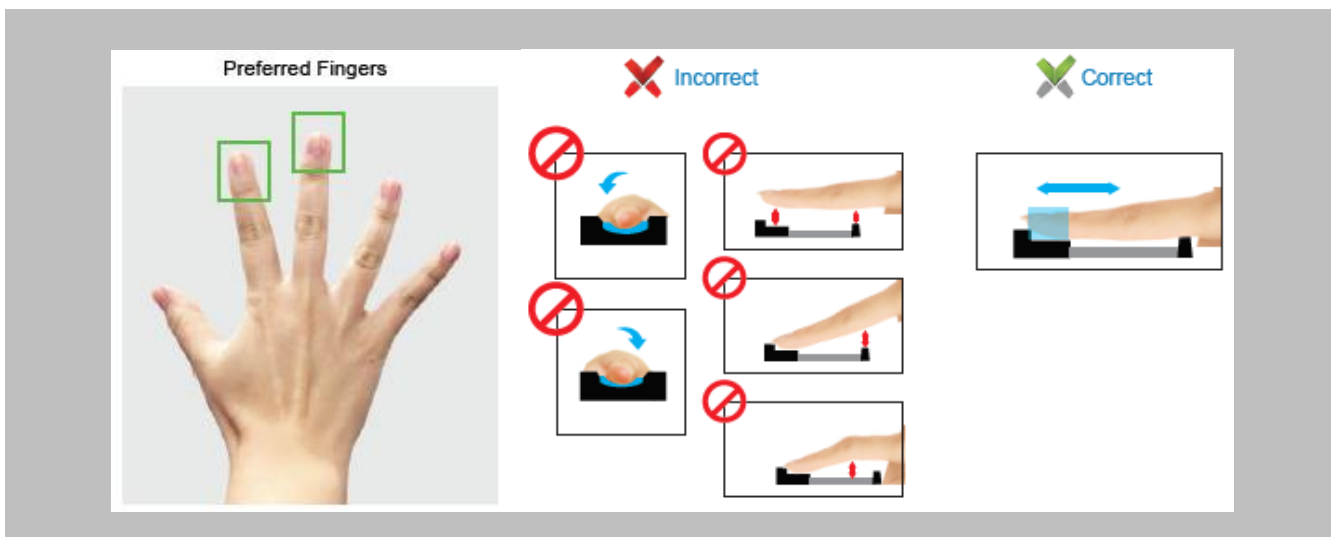


Figure 72: Finger Vein Enrollment Best Practices

Face Enrollment Best Practices

- Invixium recommends standing at 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.

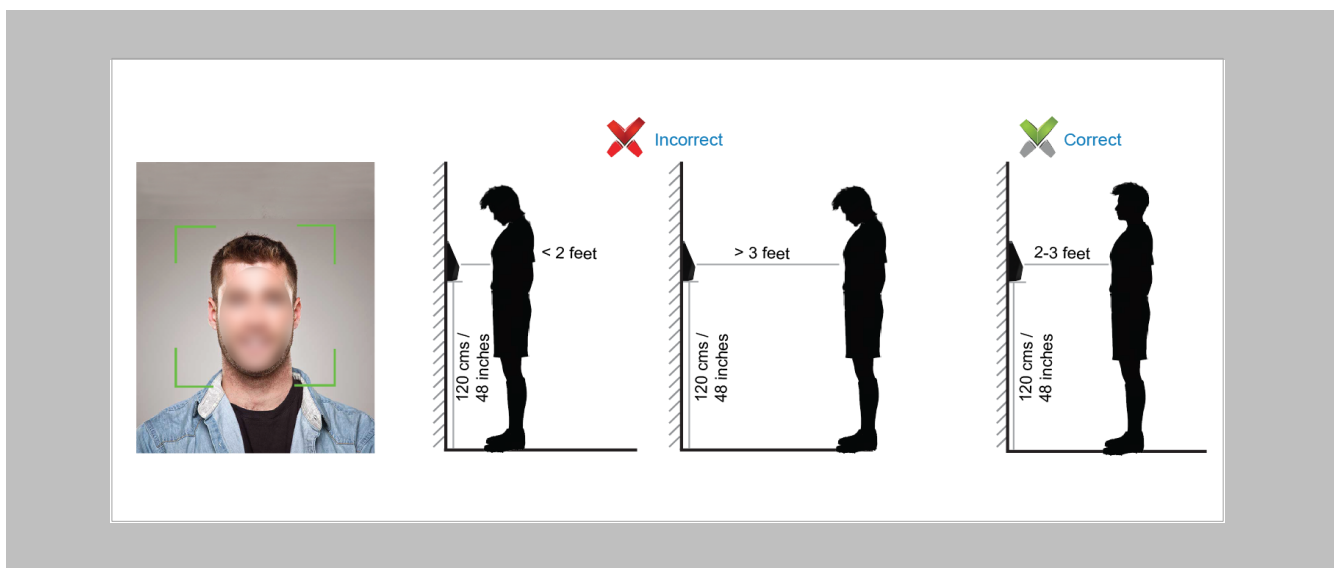


Figure 73: Face Enrollment Best Practices

17. Configuring RIO Settings

Configuring RIO in Config Tool of GSC

Procedure

STEP 1

Log into Config Tool using valid credentials.

STEP 2

Creating Roles and Units.

Navigate to **Access Control** → **Roles and Units**

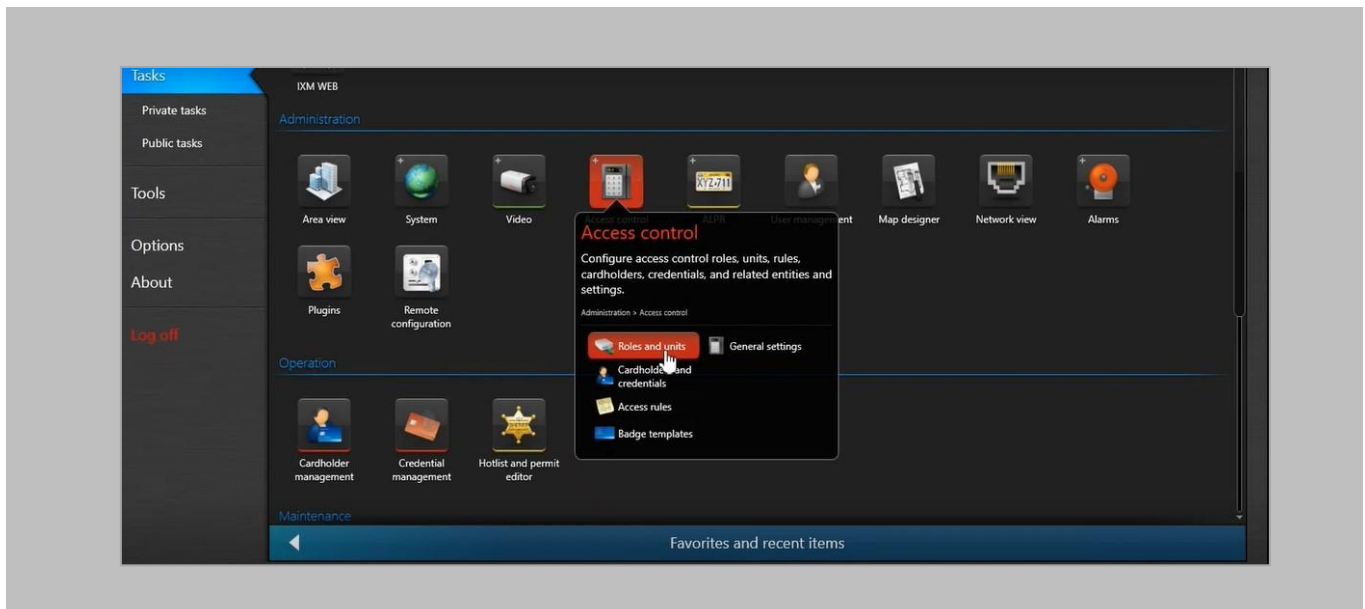


Figure 74: Config Tool – Access Control

STEP 3

Create Access Manager.

Right click on server name → Click on **Add an entity** → Click on **Show all** → Click on **Access Manager**

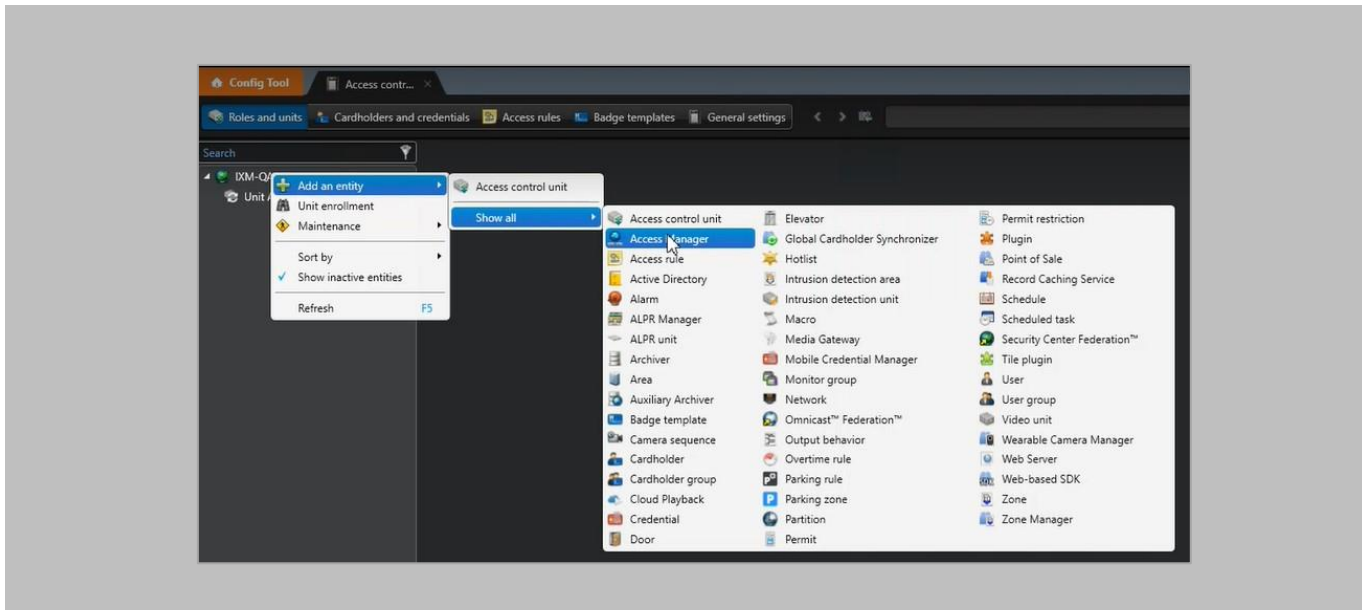


Figure 75: Config Tool – Access Manager

STEP 4

Enter required details to create **Access Manager** → click **Create**.

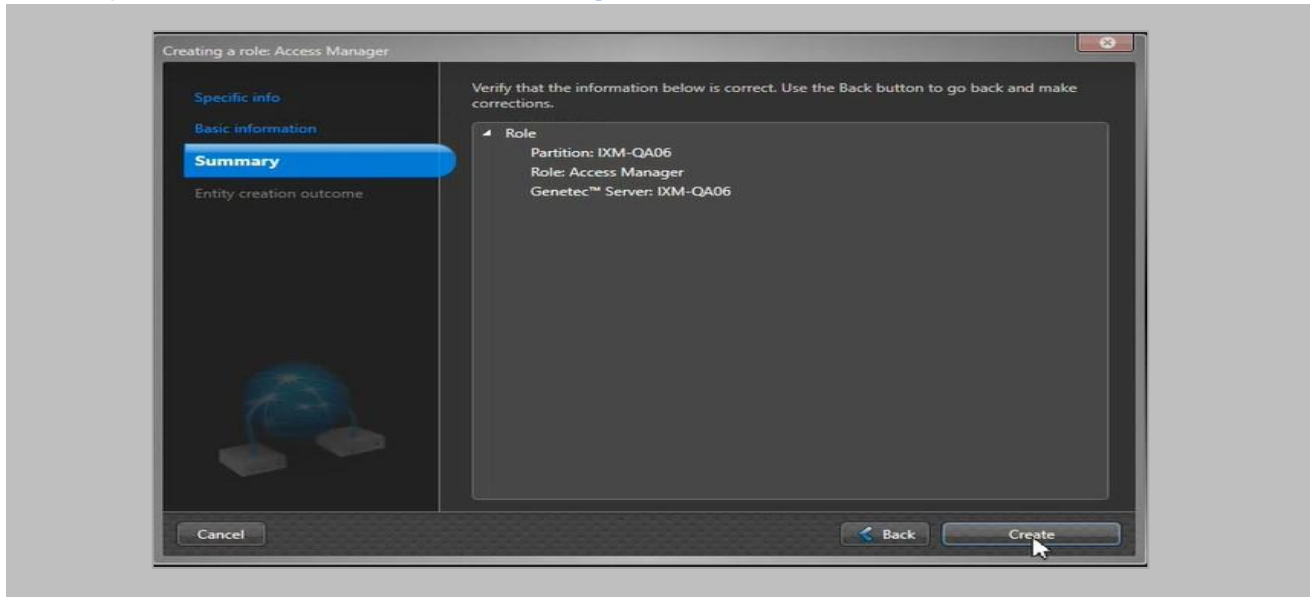


Figure 76: Config Tool – Add Access Manager

STEP 5

Validate Access Manager is created successfully.

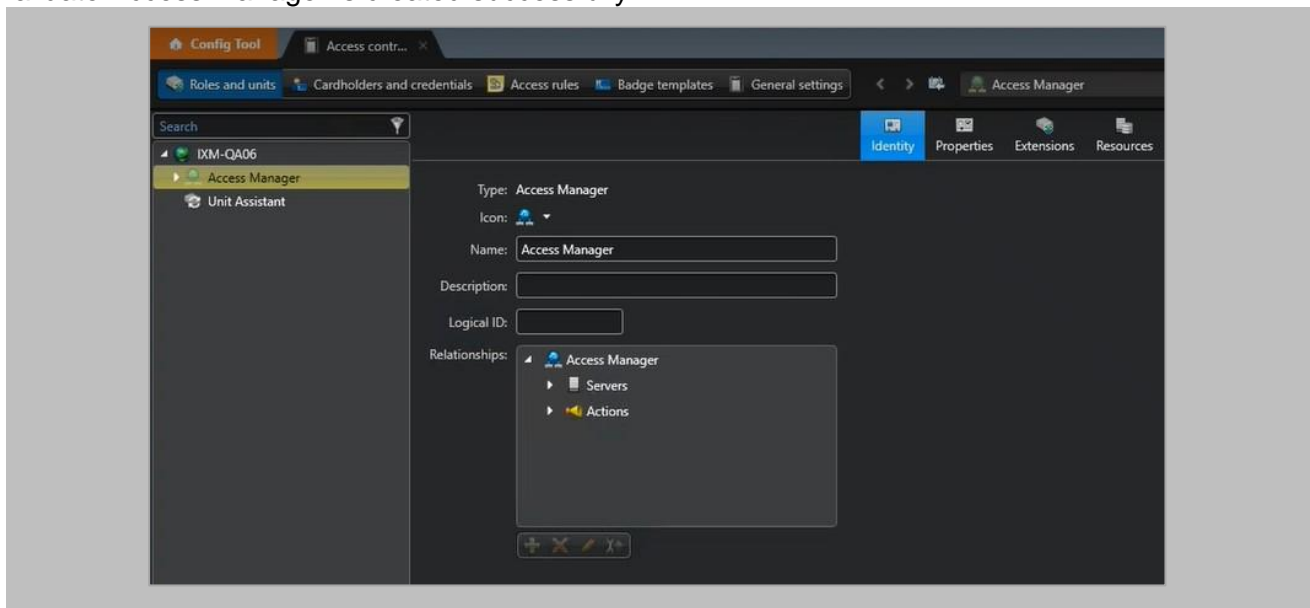



Figure 77: Config Tool – Access Manager created

 Note: You need to wait till the Access Manager becomes online.

STEP 6

Create Access Control Unit.

Right click on the **Access Manager** → **Add an entity** → **Access Control Unit**

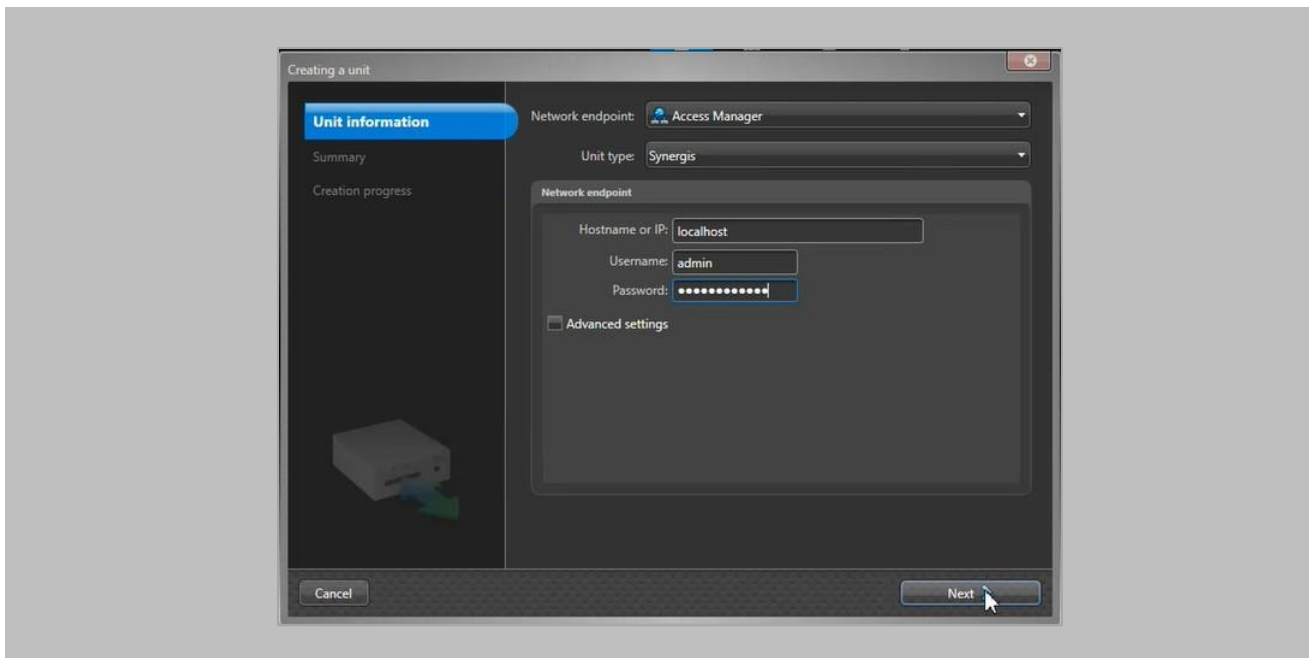


Figure 78: Config Tool – Add Access Control Unit

Hostname or IP

Enter the value of Hostname or IP. For example: “localhost”.

Username

Enter authorized User name to access Genetec server.

Password

Enter Password of authorized User to access Genetec server.

Click **Next** and **Create**.

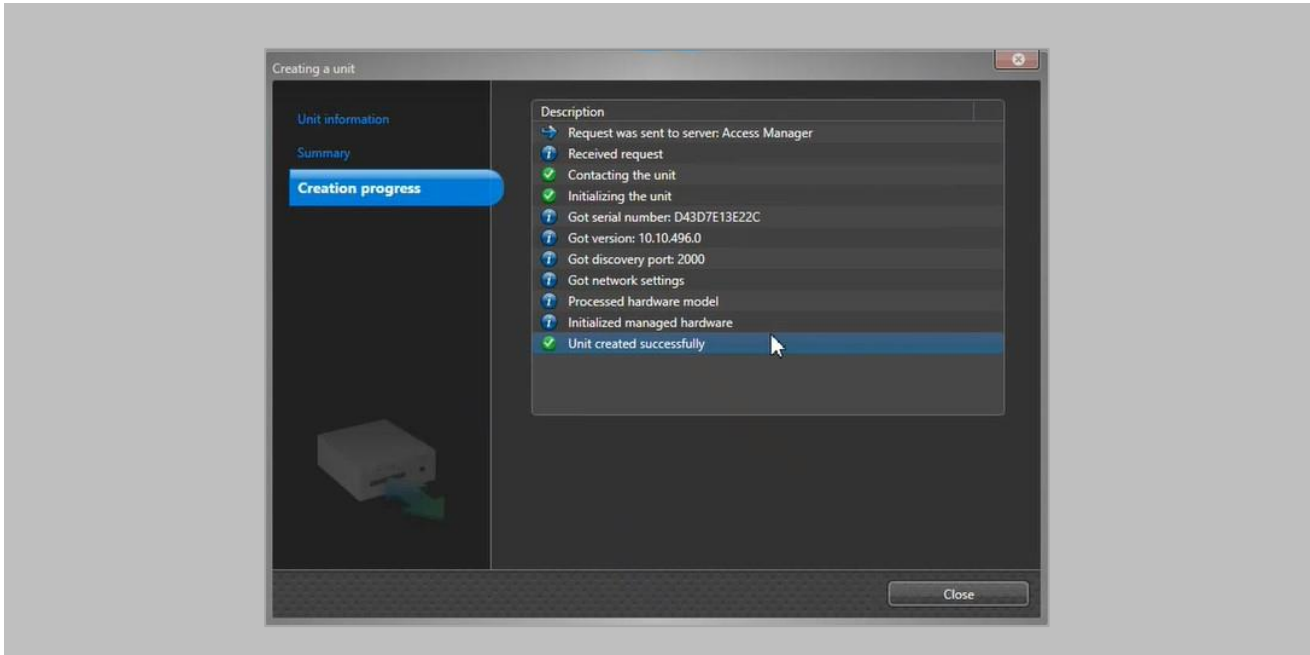


Figure 79: Config Tool – Creating Access Control Unit

Note: Description should show “Unit created successfully”.

Click [Close](#).

STEP 7

Validate Access Control Unit is added successfully.

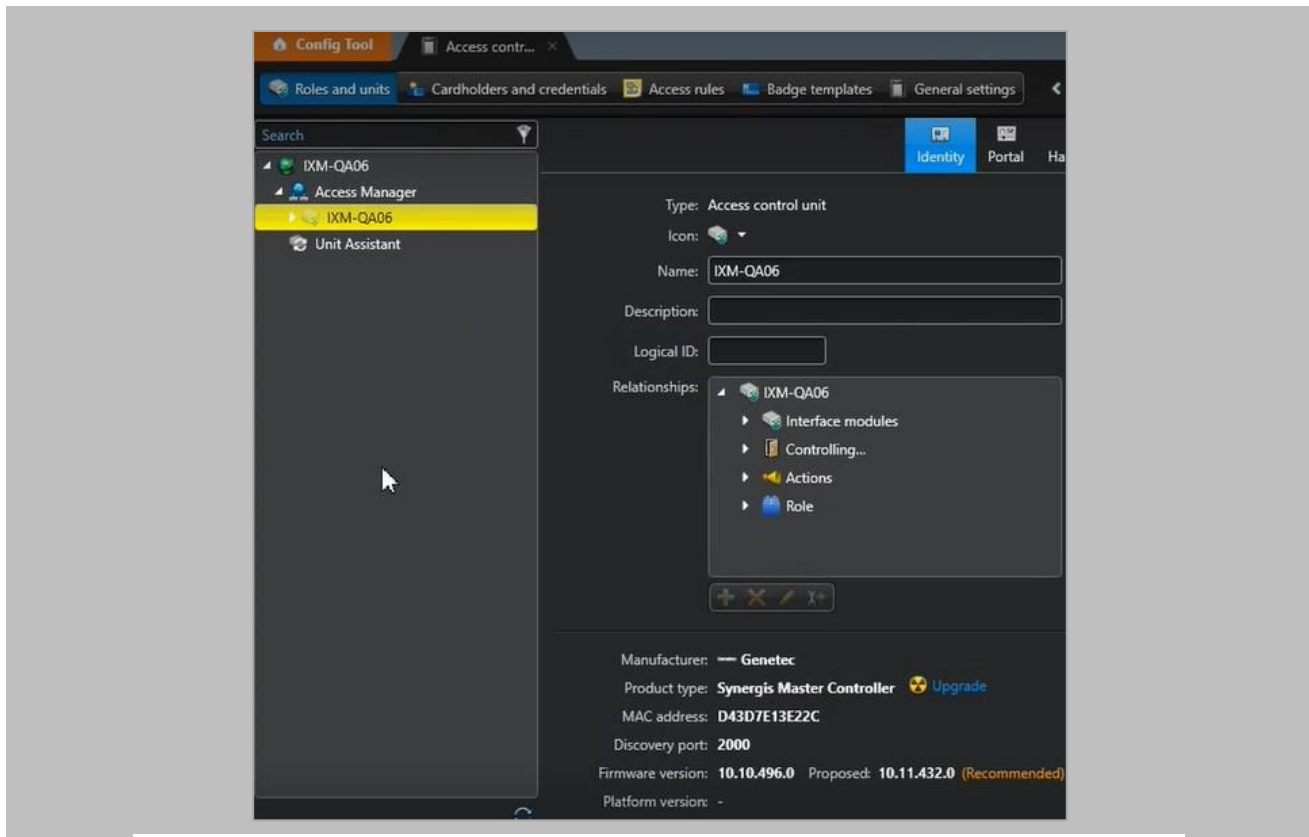


Figure 80: Config Tool – Access Control Unit created

Configuring RIO in IXM WEB

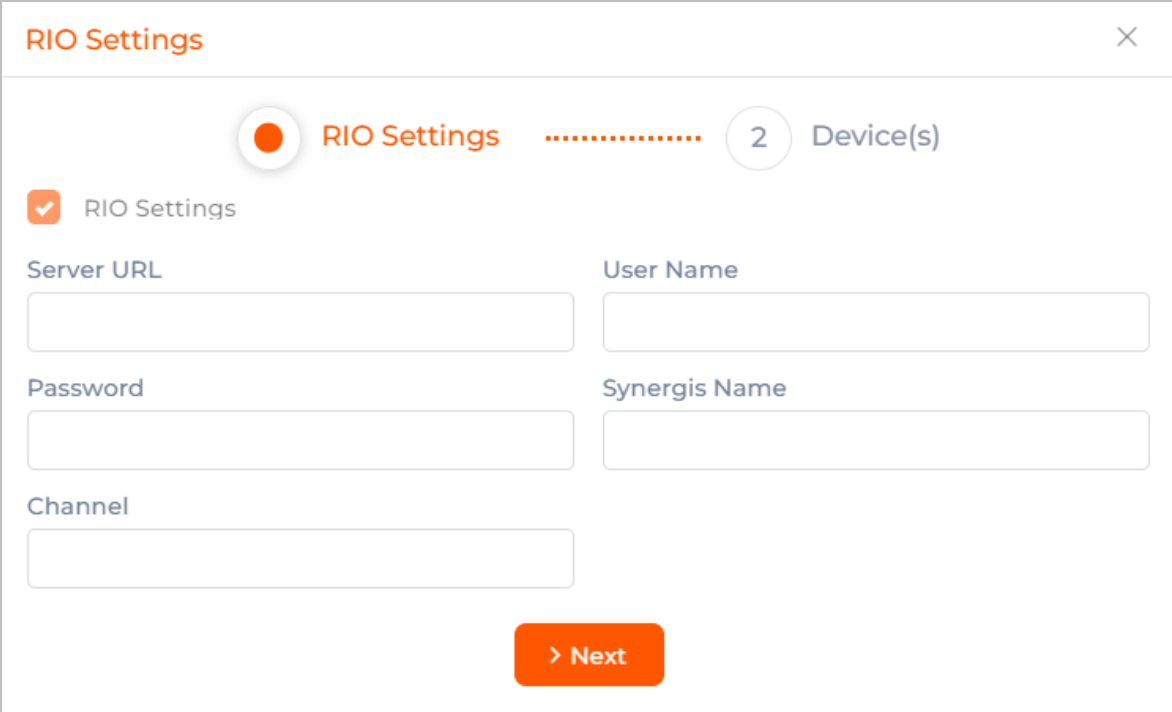
Procedure

STEP 1

Log into IXM WEB → Navigate to [Link](#) → click the blue **Security Center (Genetec)** icon.

STEP 2

Scroll down page to **RIO SETTINGS** → Click **Add New** button.



The screenshot shows a web interface for configuring RIO settings. At the top, there's a title bar 'RIO Settings' with a close button. Below it, a progress indicator shows 'RIO Settings' as the active step and '2 Device(s)' as the next step. A checkbox labeled 'RIO Settings' is checked. The form contains five input fields: 'Server URL', 'User Name', 'Password', 'Synergis Name', and 'Channel'. An orange button labeled '> Next' is positioned at the bottom center of the form.

Figure 81: IXM WEB – RIO Settings

RIO Setting

Click on the check box to enable wireless connection to the Control Panel.

Server URL:

Enter Address of Synergis appliance.

User Name:

Enter User name to access Synergis appliance.

Password:

Enter Password to access Synergis appliance.

Synergis Name:

Enter Synergis Name to separate Synergis appliances for setups with multiple appliances.

Devices selected in the next step would be added to this channel on the Synergis appliance. A new channel will be created if required.

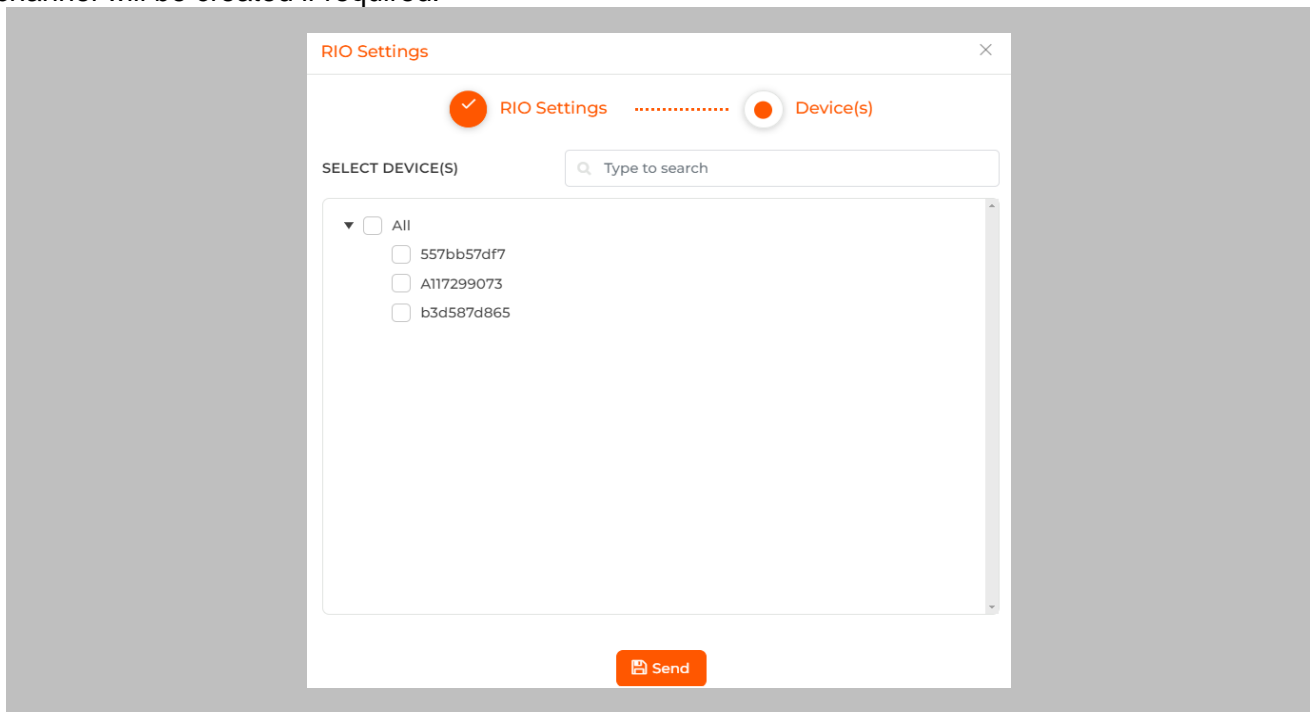


Figure 82: IXM WEB – Channel

Click on target services to select.

Click **Send**.

Note: Clicking **Send** will add each selected Invixium device as an interface on the Synergis appliance. The device name will be the name of the interface. Each interface will be given an input label, “**REX**”, an output label, “**Lock**”, and a reader label, “**Reader**”.

Configuring Invixium Device and Door in Config Tool

STEP 1

Go to Config Tool.

STEP 2

Navigate to **Access Manager** → Click on the created **Access Control Unit** → Click on **Peripherals** tab.

You should be able to see the name of Invixium device in the format:

Invixium – Product Type (Channel name – Invixium device name)

The State of the device should be "Online".

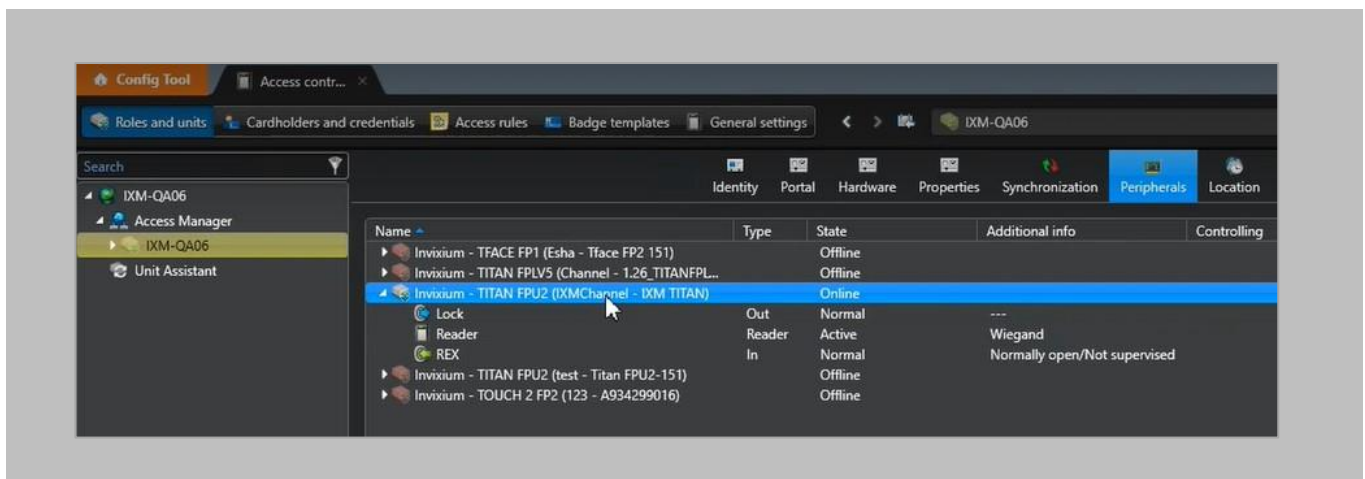


Figure 83: Config Tool – Peripherals

STEP 3

Create an Area or Door.

Navigate to **Area View** → Right Click on the **Server Name** → Click on **Add an entity** → Click on **Door**

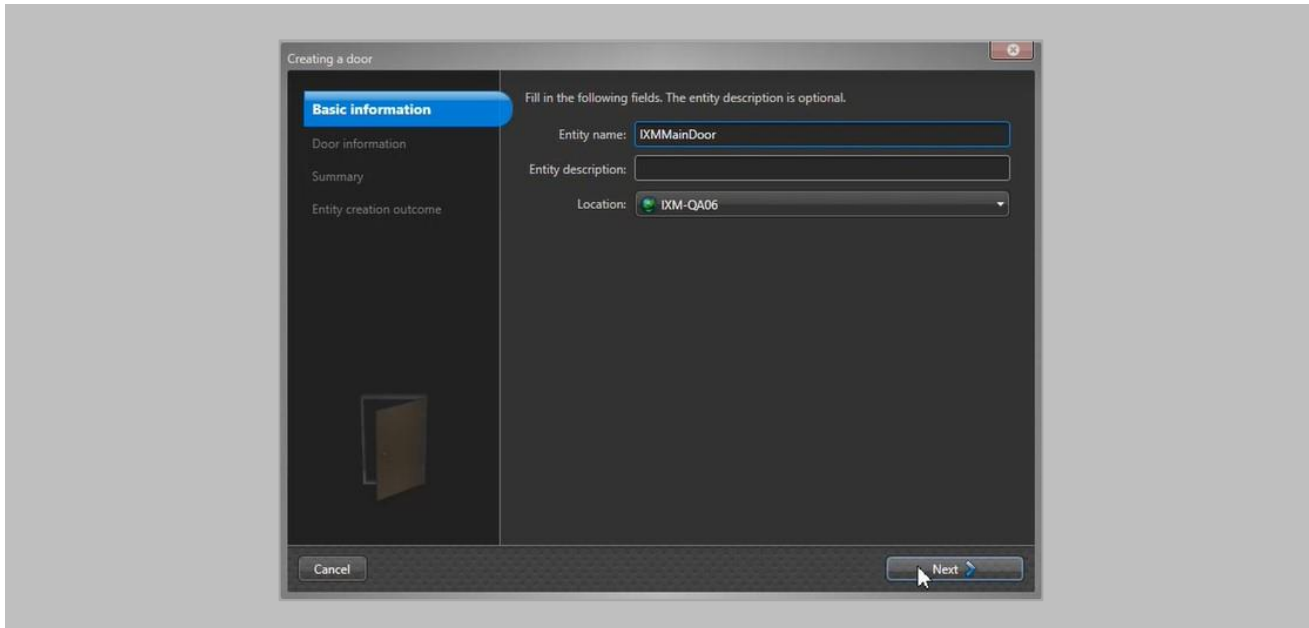


Figure 84: Config Tool – Creating a Door

Entity name

Enter name of the Door. Click **Next**.

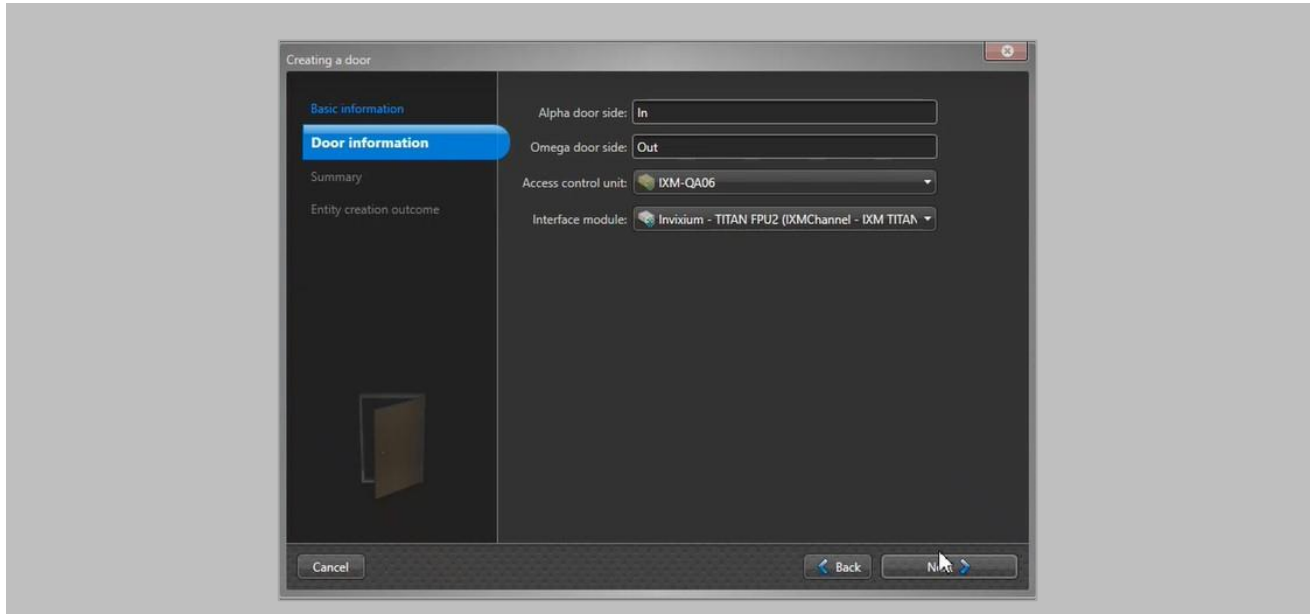


Figure 85: Config Tool – Door Information

Access control unit

Click to select the Access control unit you created from the list.

Interface module

Click to select the Invisium device on which RIO settings were applied.

Click **Next** and **Create**.

STEP 4

Configure the Door.

Navigate to **Area View** → Click on the **Door** created by you → navigate to **Hardware** tab

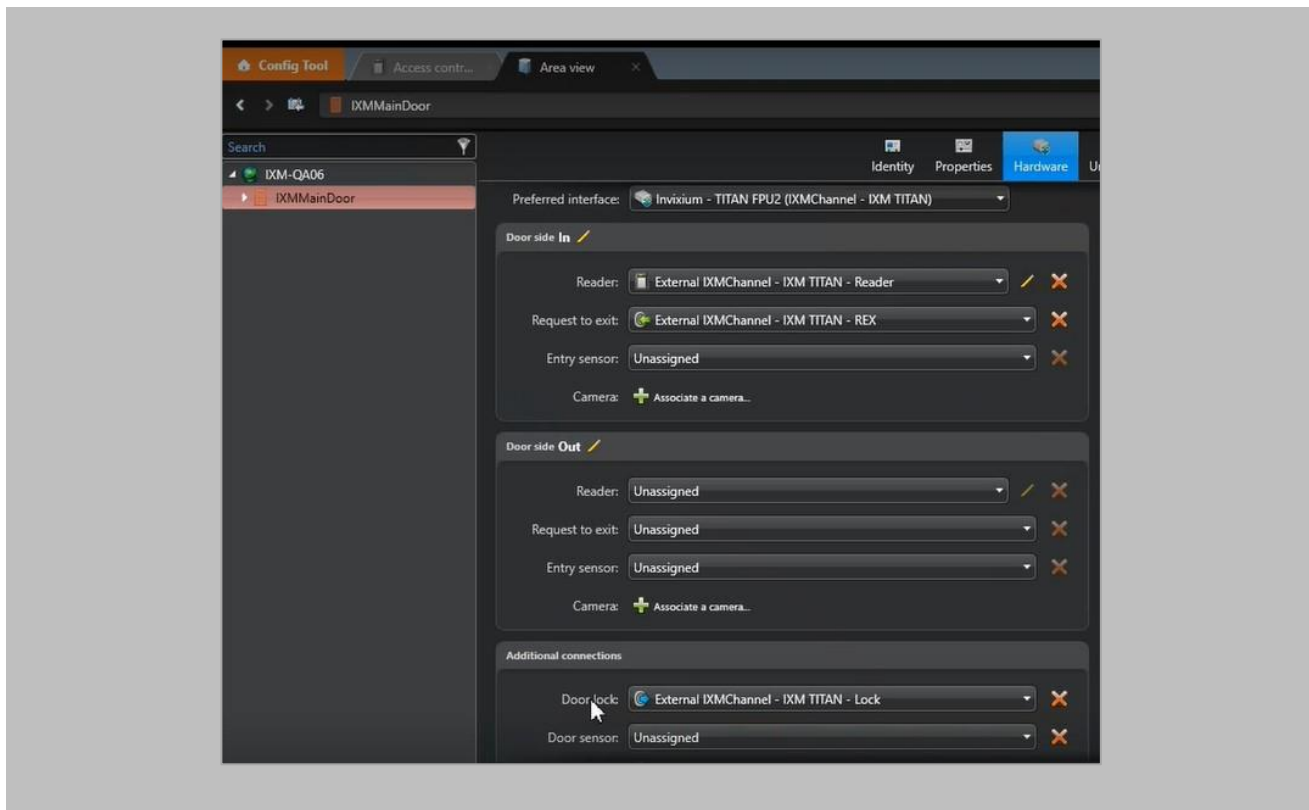


Figure 87: Config Tool – Configuring Door

Note: In case of single Reader, either Door Side In can be configured or Door Side Out and not both of them.

Reader

Click to select the Invoxium device reader as External Reader.

Request to exit

Click to select the Invixium device as REX.

Door lock

Click to select the Invixium device for Door lock.

Click **Apply**.

STEP 5

Configure the Schedule.

Select **Door** which you have created → Click on **Access Rules** tab → Click on **+** icon → Click on **All open rule**

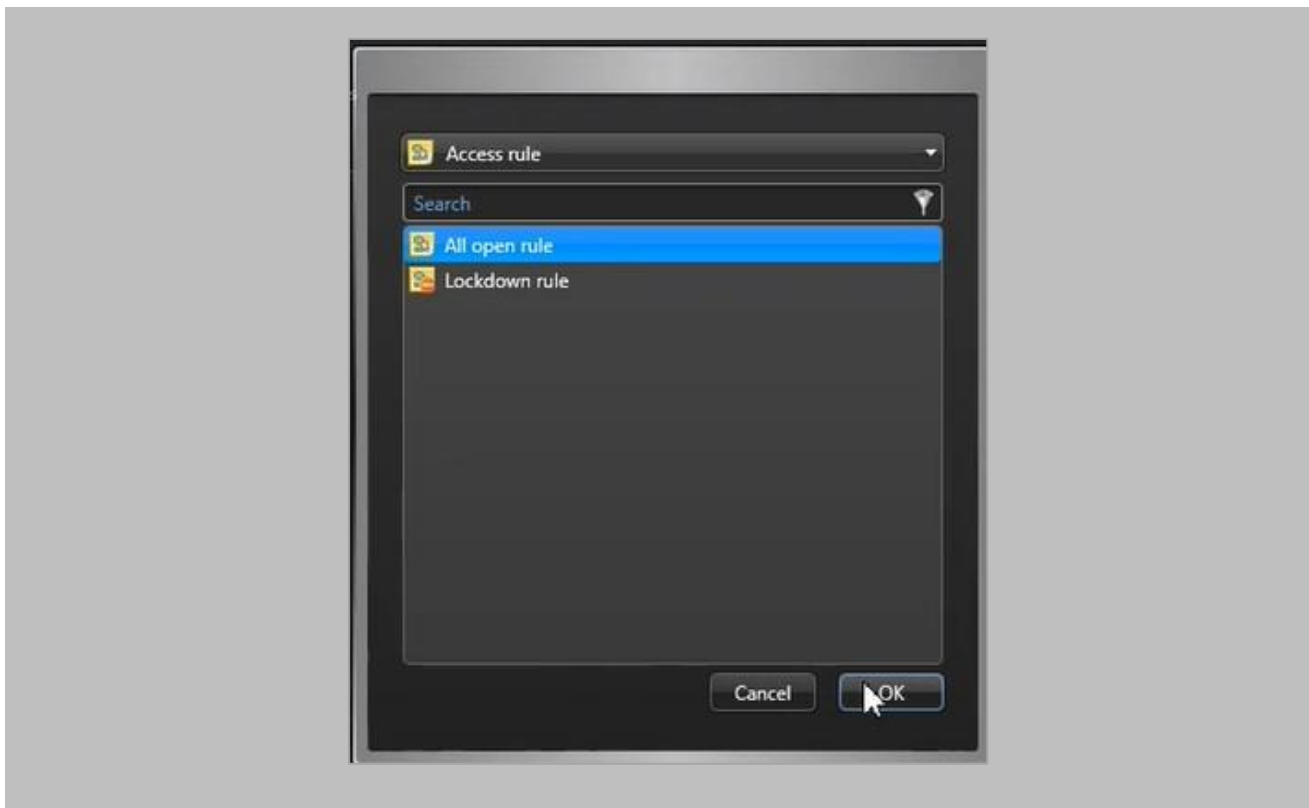


Figure 88: Config Tool – Access Rule

Click **OK** and **Apply**.

Monitoring Events and alarms

STEP 1

Log in to Security Desk of GSC and Navigate to **Monitoring** tab.

STEP 2

You will be able to see the Door that you have configured.

Note: The View Area is empty right now.

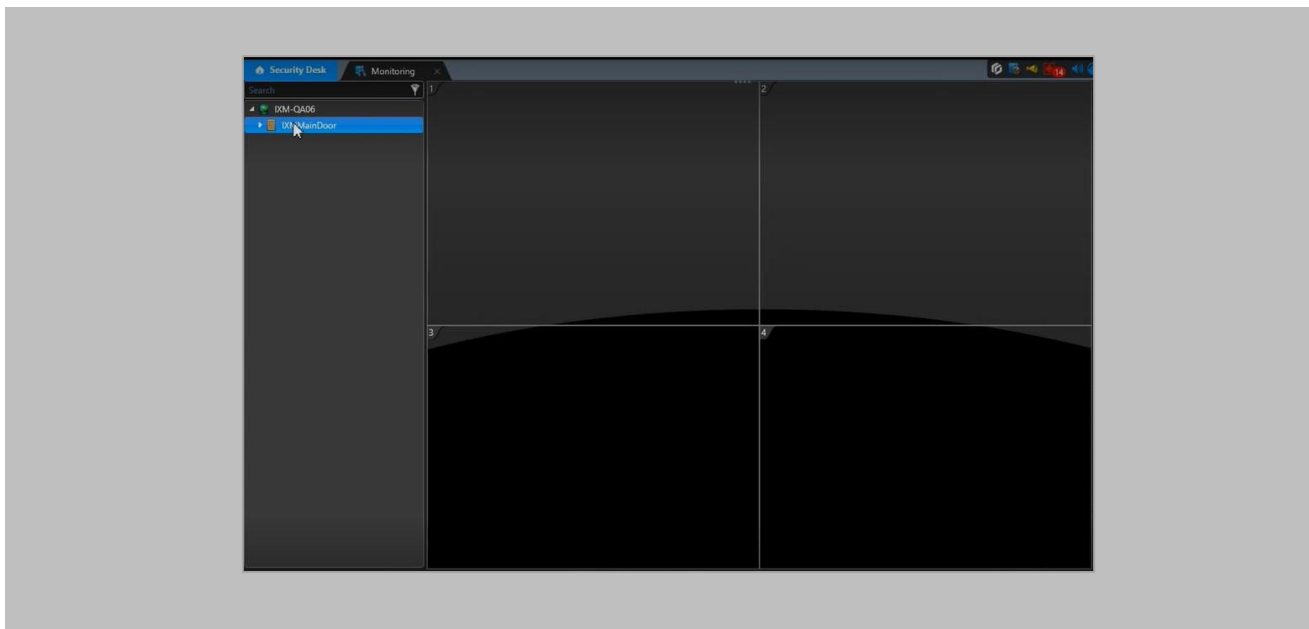


Figure 89: Security Desk – Monitoring

STEP 3

Drag and drop the Door to the View Area.

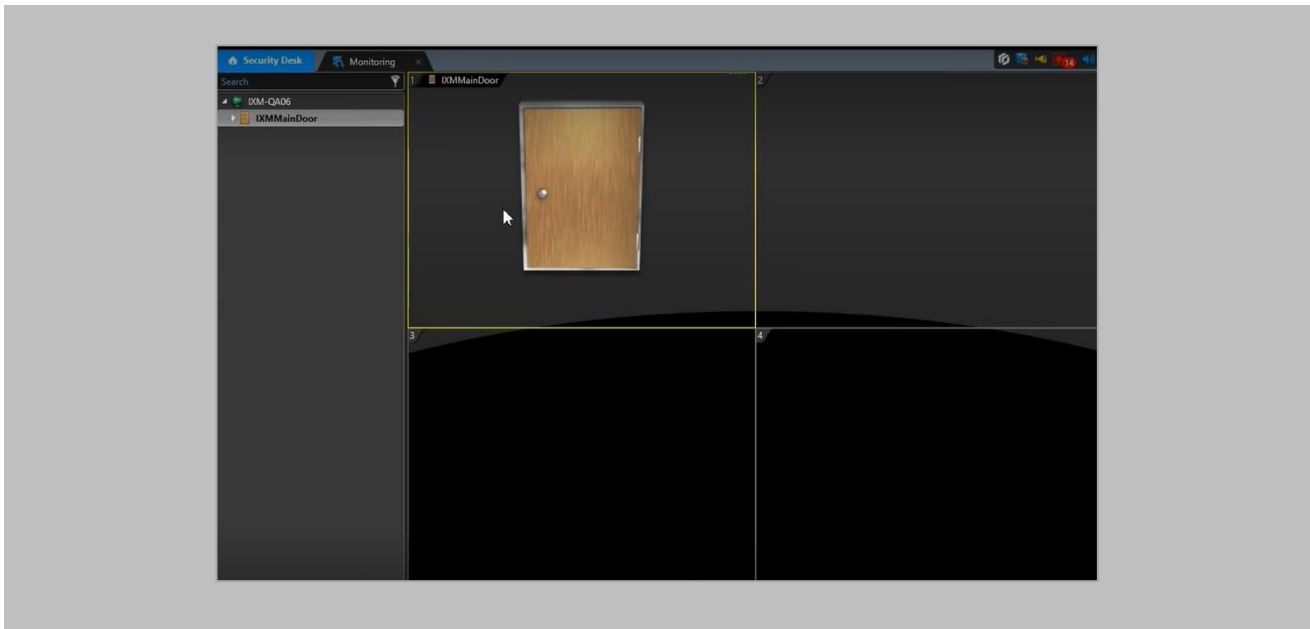


Figure 90: Security Desk – View Area

STEP 4

Perform authentication event on the device and verify the event on Genetec Desk.

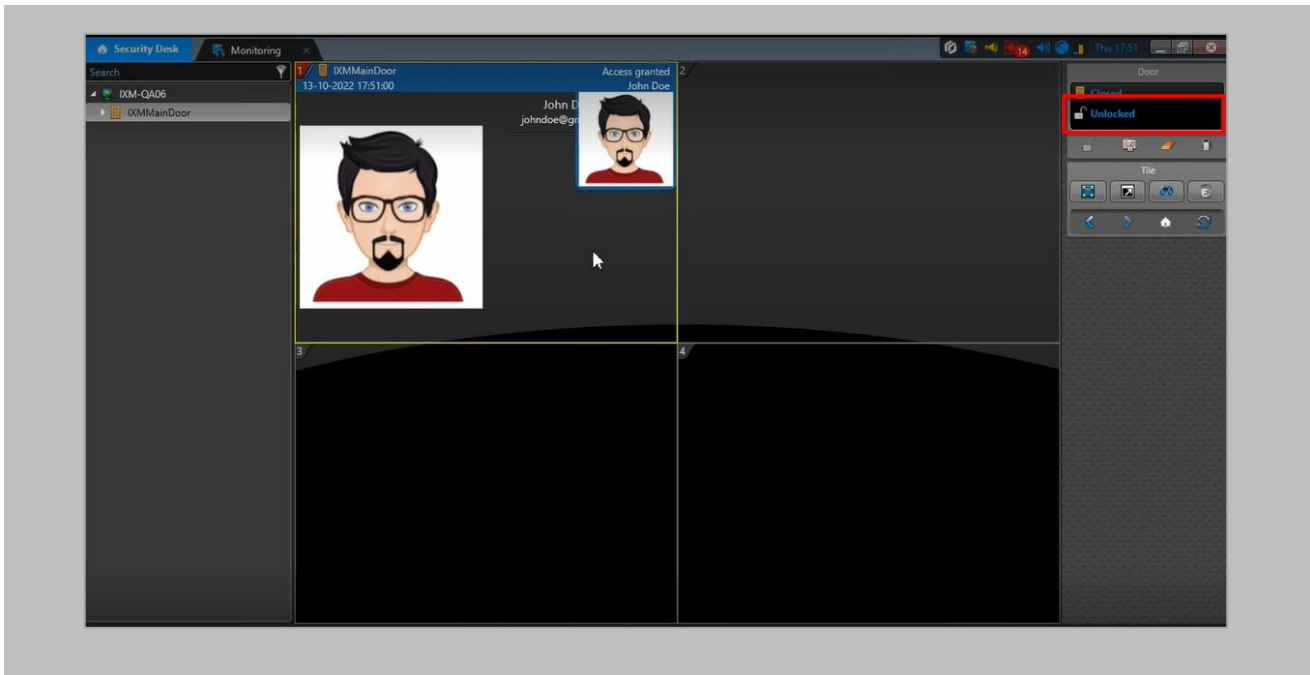


Figure 91: Security Desk – Access Granted

18. Appendix

Installing Invixium IXM WEB with Default Installation using SQL Server 2014



Note:

- By default, the IXM WEB installer will install SQL server 2014
- It is highly recommended to use SQL server 2016 or higher

If it is intended for IXM WEB to use a non-default SQL 2014 installed instance, please refer to Installing SQL Instance.

Procedure

STEP 1

Run the [installer.exe](#)



Figure 92: Install IXM WEB



Note: Installs SQL 2014 Express.

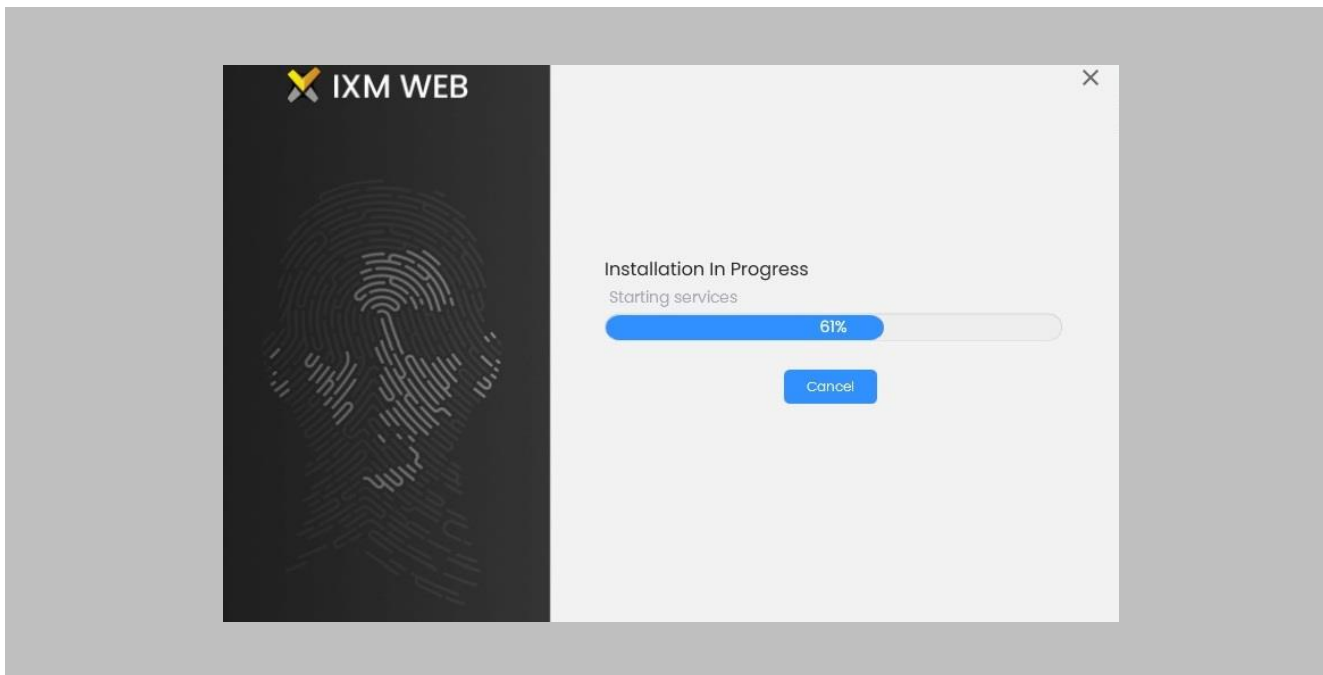


Figure 93: Loading SQL Express & Installation Progress

STEP 2

Once the installation is completed, check these services to make sure they are all running:

- Bonjour
- Invixium Device Discovery
- IXM WEB

STEP 3

Run **IXM WEB** by selecting it from the Windows Start menu or your desktop.

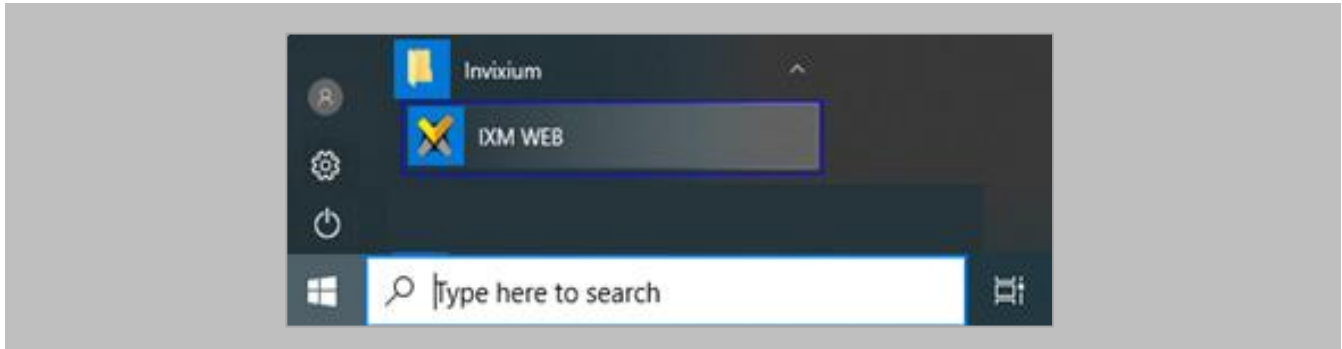


Figure 94: IXM WEB - Shortcut Icon on Desktop

STEP 4

Select **Windows Authentication** and the **SQL Server Name**, then click on **Connect**.

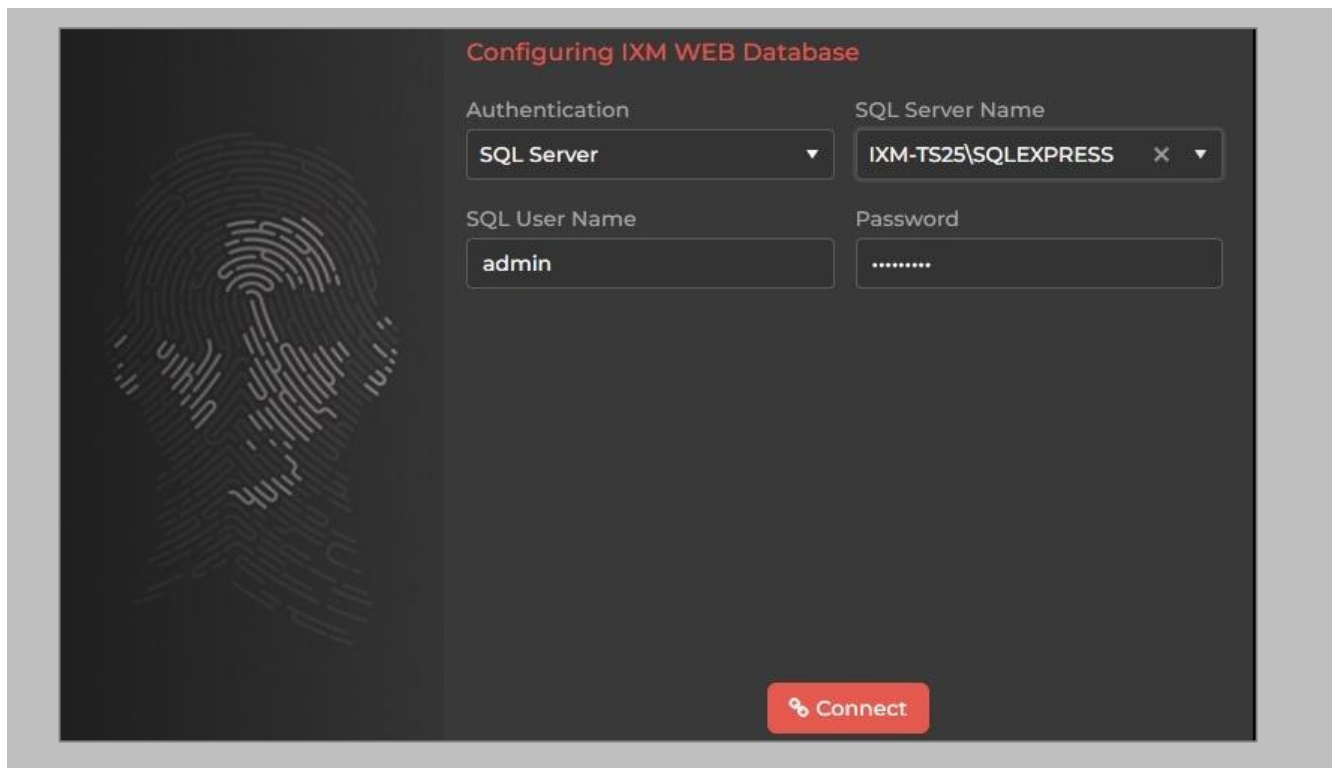


Figure 95: IXM WEB - Configuring IXM WEB Database

STEP 5

Select the **Database Name** and then click **Next**.

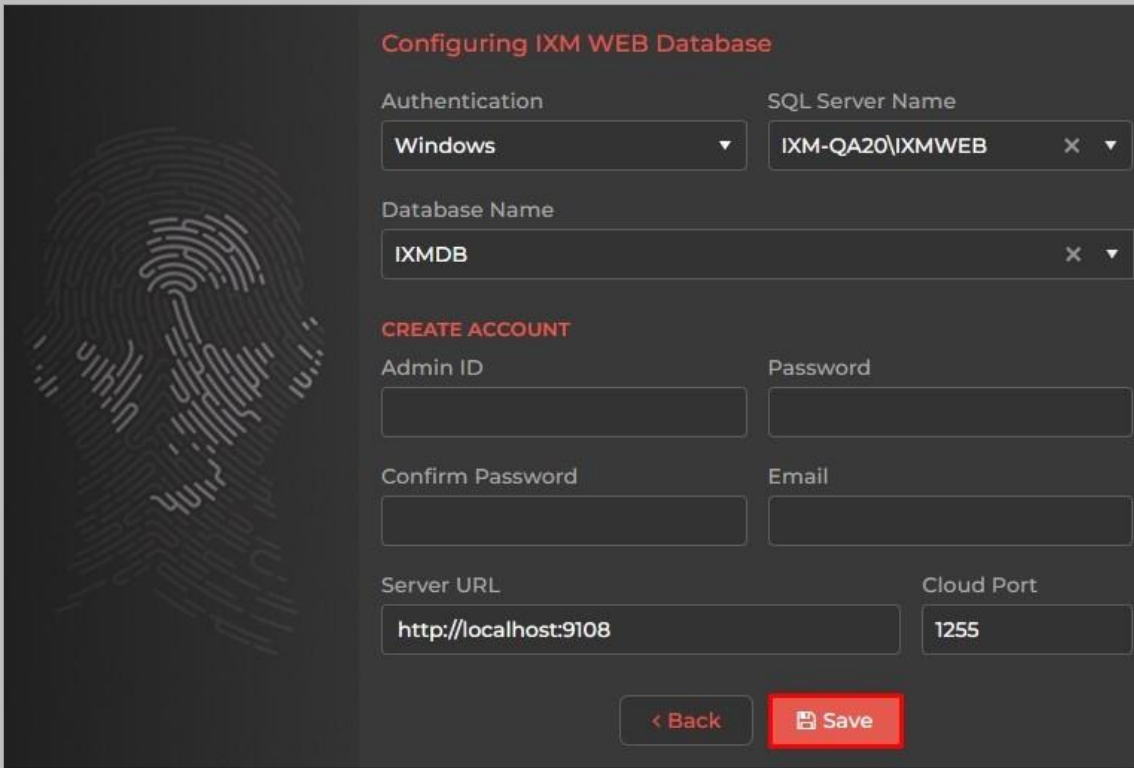


Figure 96: IXM WEB - Select Database Name

STEP 6

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 7

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 8

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

Pushing Configuration to Multiple Invoxium Readers

Procedure

STEP 1

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

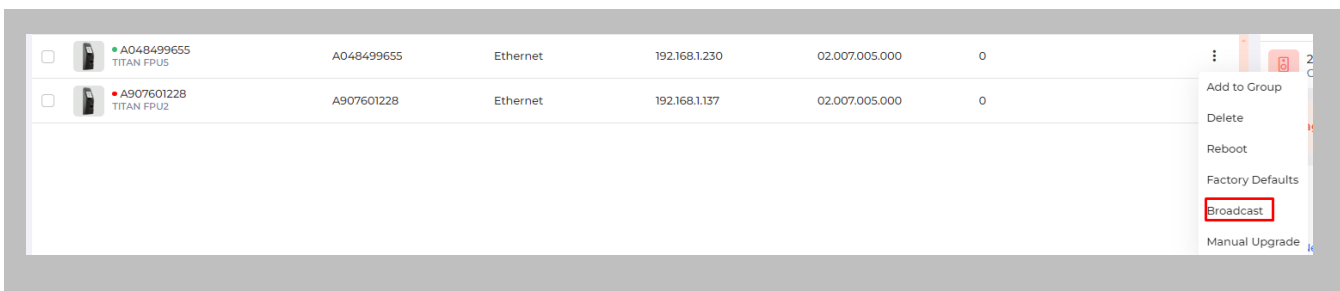


Figure 97: IXM WEB - Broadcast Option

STEP 2

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

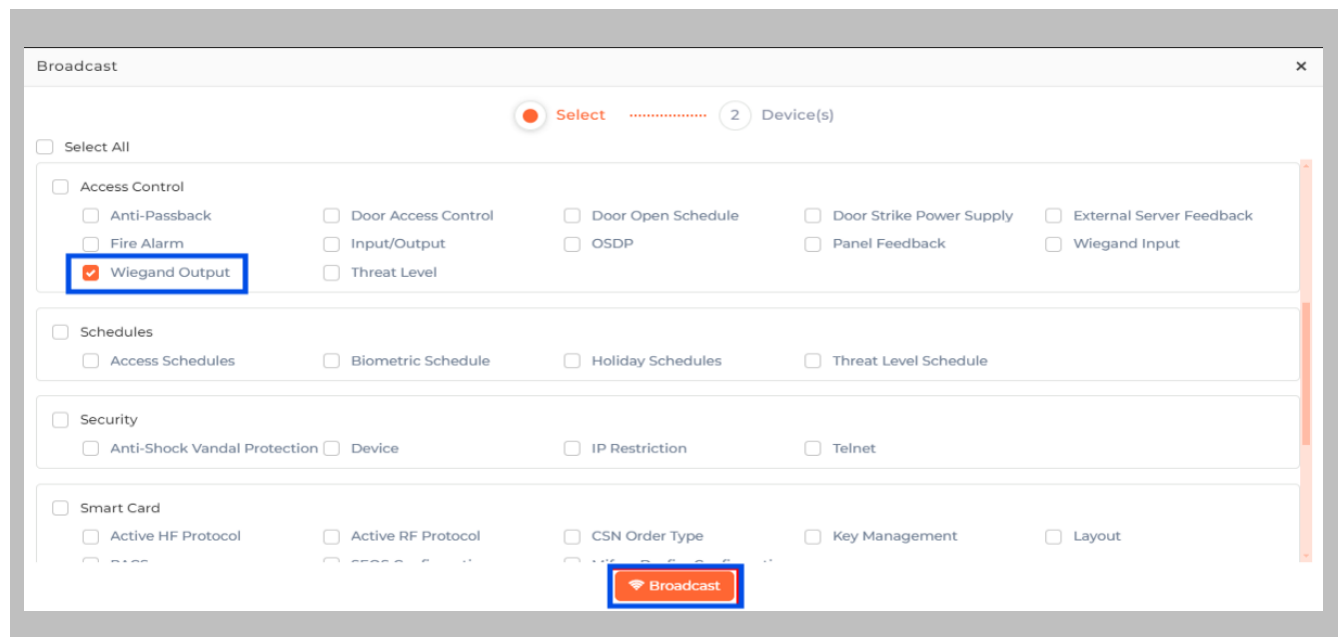


Figure 98: IXM WEB - Broadcast Wiegand Output Settings

STEP 3

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.

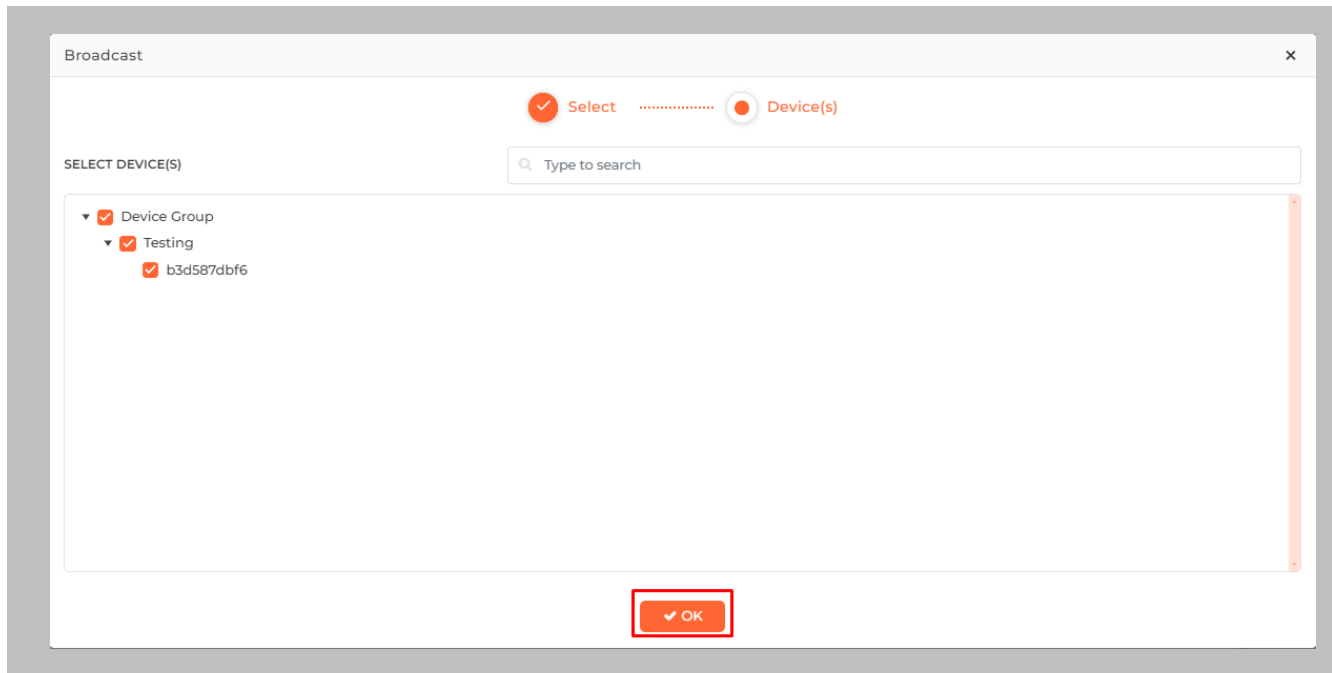


Figure 99: IXM WEB - Broadcast to Devices


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

	<p>user after the first user is authenticated successfully.</p> <ul style="list-style-type: none"> • 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 second user will be logged into the Access Control Panel.</p>
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. Options are:</p> <ul style="list-style-type: none"> • Red • Green • Yellow • Blue
Enable VISITOR OSDP	<p>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"</p>

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	<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.

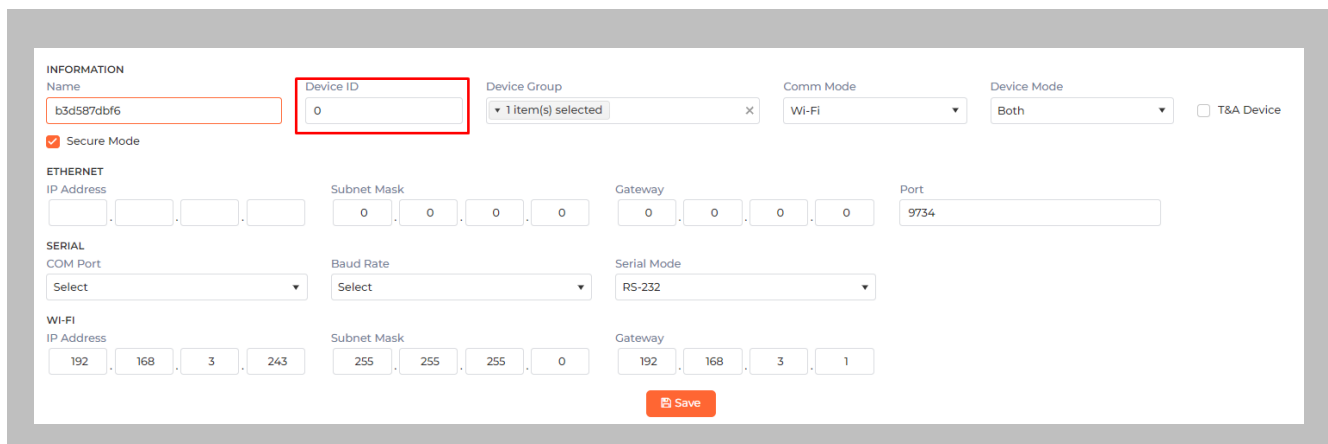


OSDP settings saved ×

Figure 101: 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 GSC.



The form displays configuration options for a device. The **Device ID** field is highlighted with a red box and contains the value '0'. Other fields include Name (b3d587dbf6), Device Group (1 item(s) selected), Comm Mode (Wi-Fi), Device Mode (Both), and T&A Device (unchecked). The **ETHERNET** section includes IP Address, Subnet Mask (0.0.0.0), Gateway (0.0.0.0), and Port (9734). The **SERIAL** section includes COM Port (Select), Baud Rate (Select), and Serial Mode (RS-232). The **WI-FI** section includes IP Address (192.168.3.243), Subnet Mask (255.255.255.0), and Gateway (192.168.3.1). A **Save** button is located at the bottom right.

Figure 102: 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.

STEP 6

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

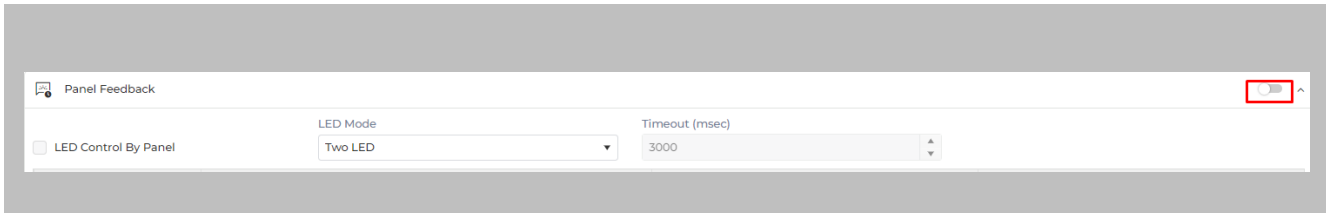


Figure 103: IXM WEB - Disable Panel Feedback

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.

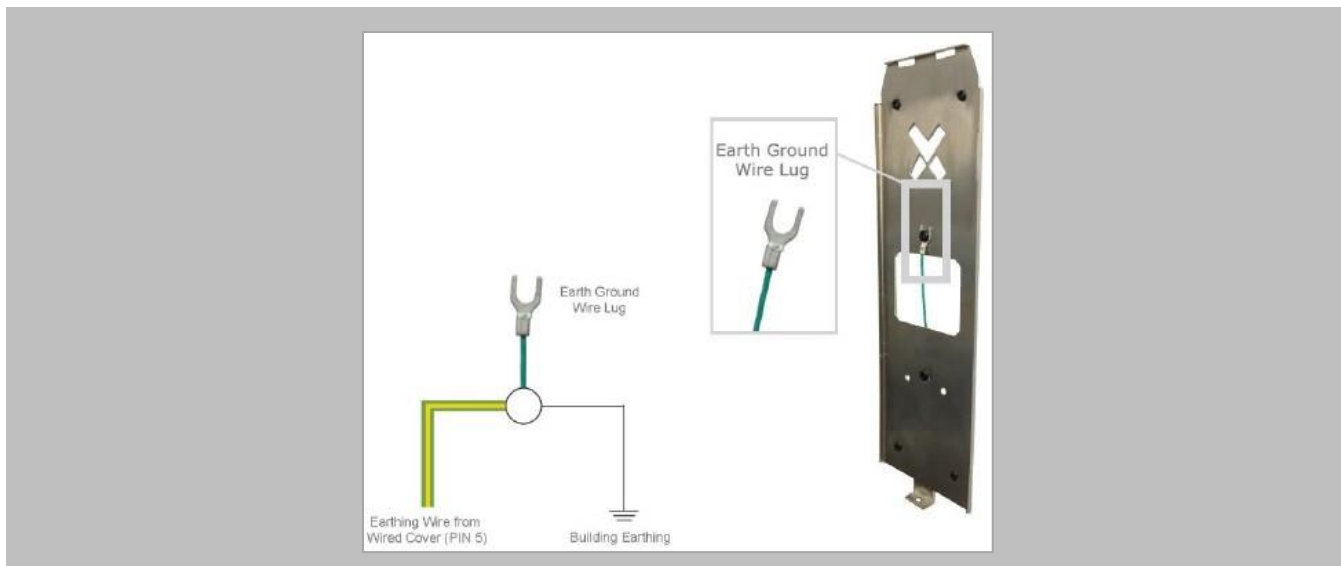


Figure 104: Earth Ground Wiring

Wiring

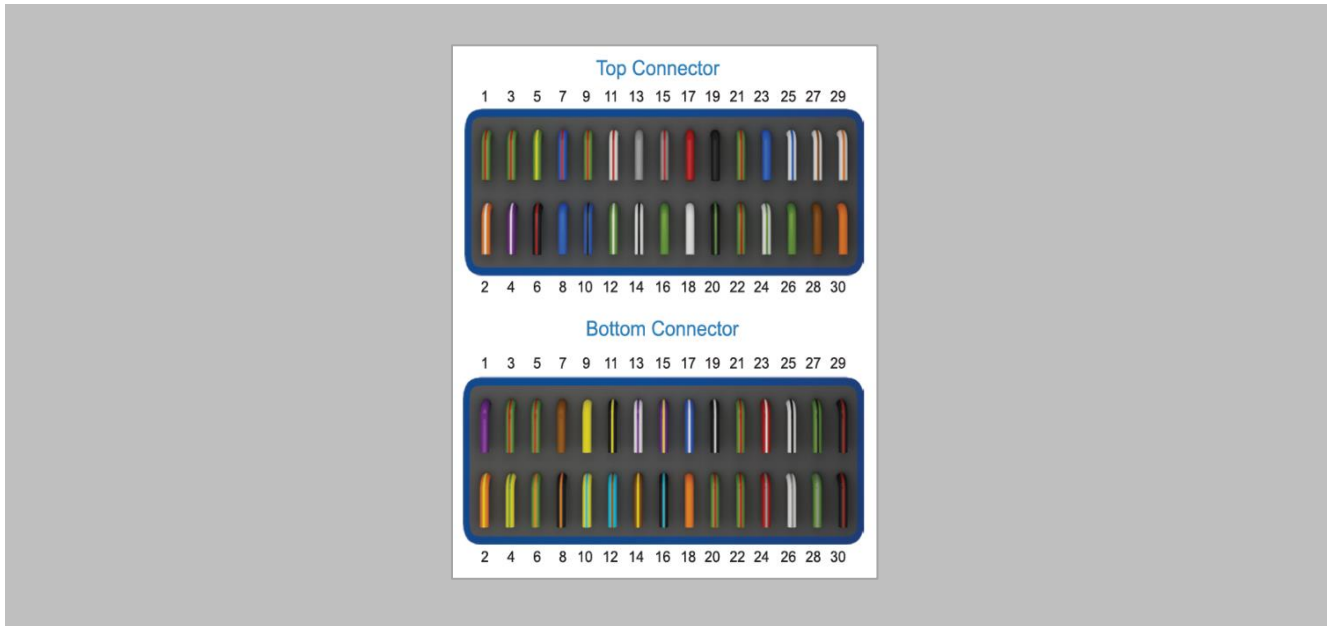


Figure 105: IXM TITAN – Top & Bottom Connector Wiring

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 106: Power, Wiegand & OSDP Wires

All Invixium devices support Wiegand, OSDP and RIO protocol (wireless).

Invixium devices can be integrated with Genetec Controller on:

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

Wiegand Connection

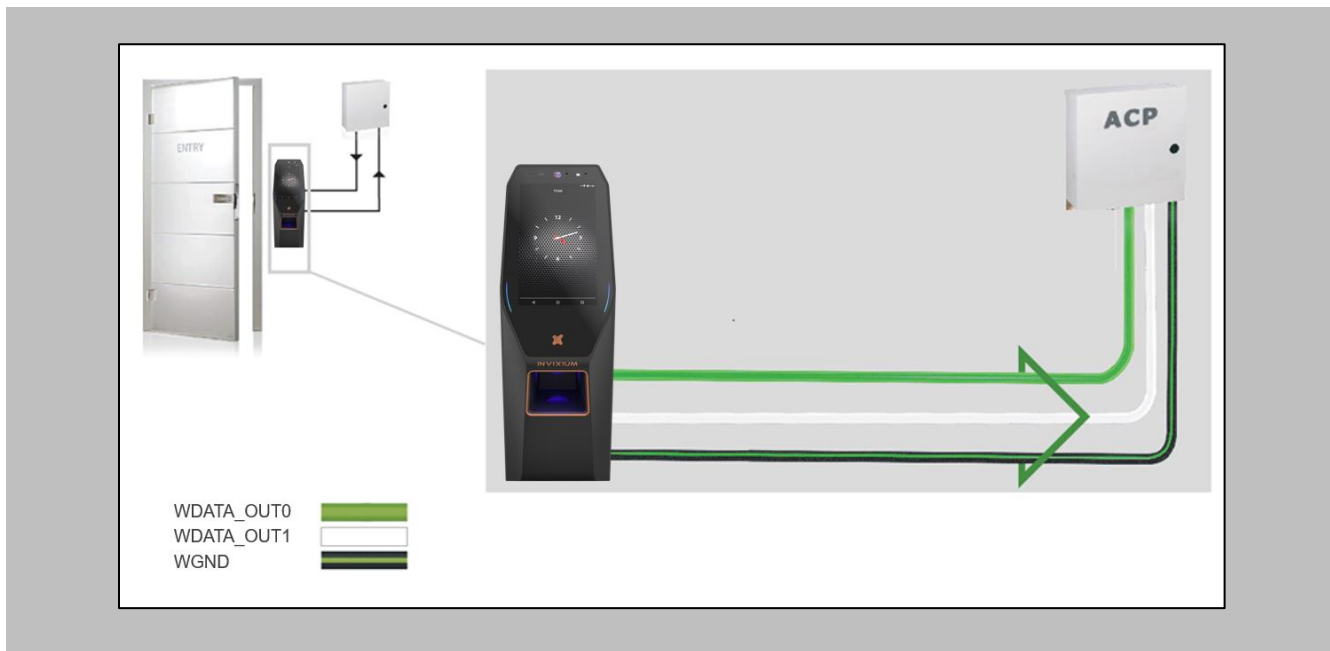



Figure 107: IXM TITAN - Wiegand

 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.

Wiegand Connection with Panel Feedback

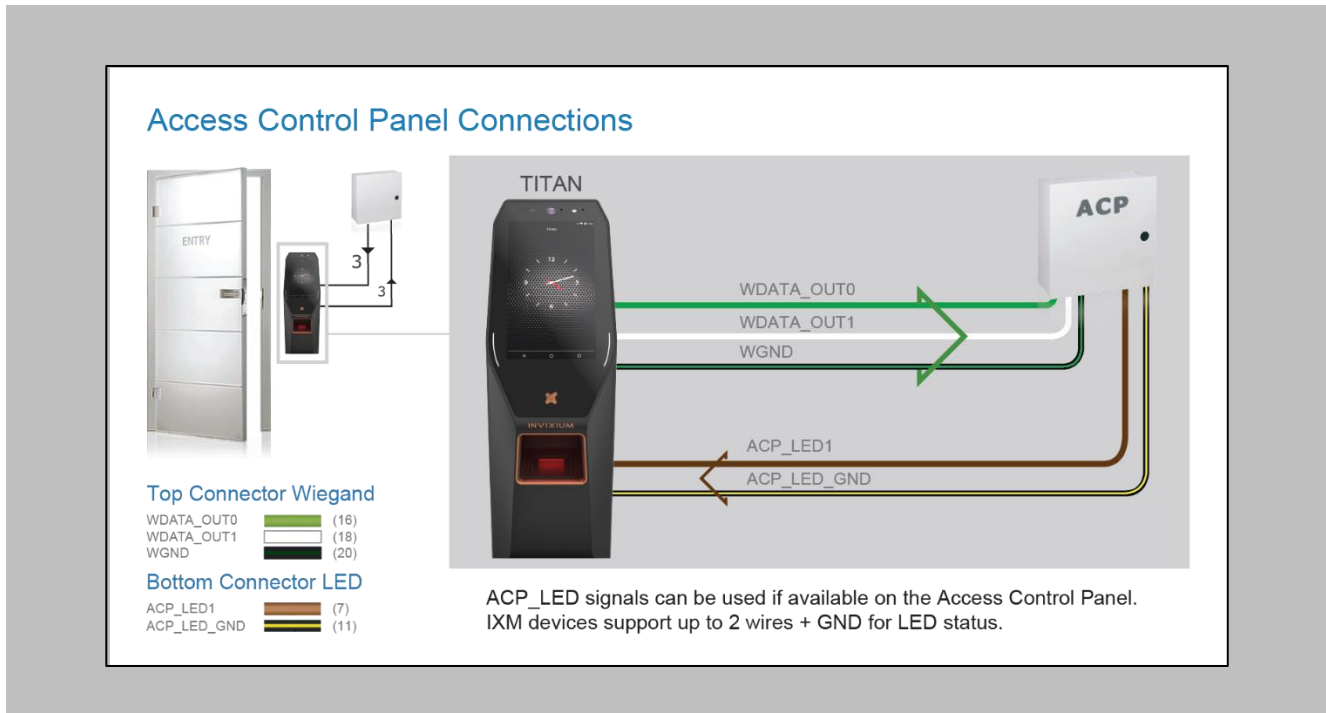



Figure 108: IXM TITAN - Panel Feedback

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

OSDP Connections

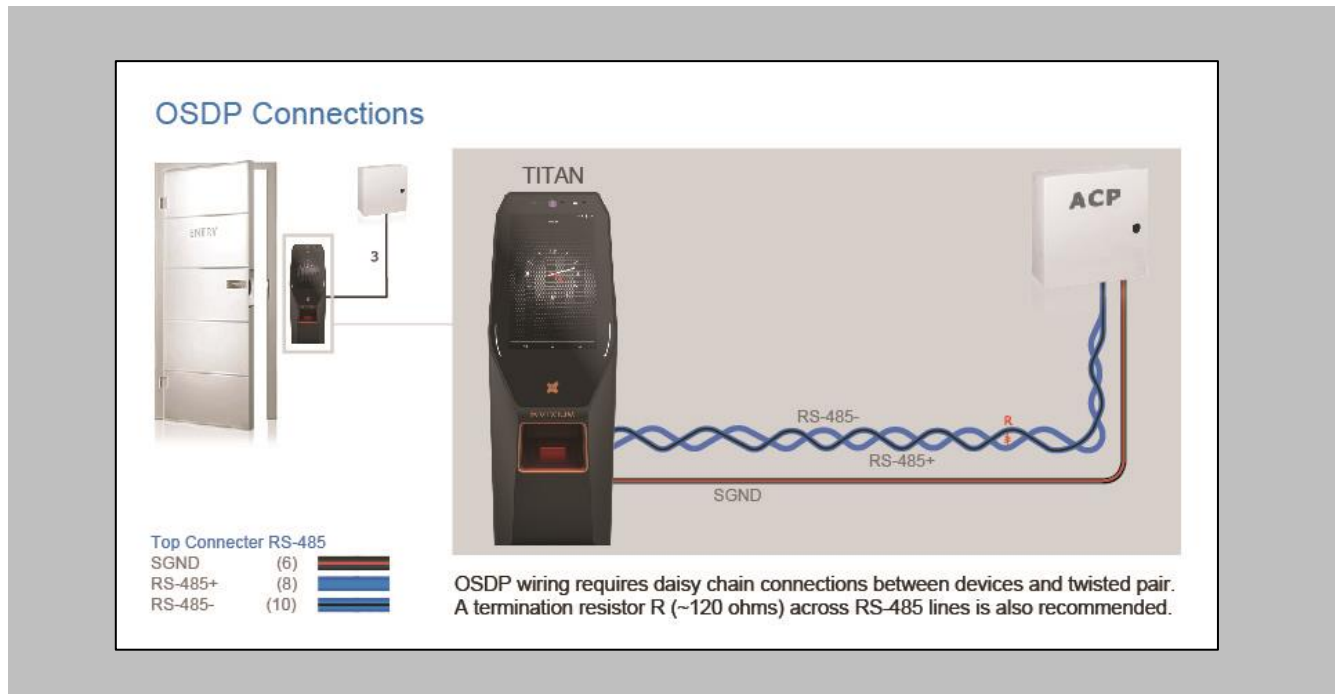



Figure 109: IXM TITAN - OSDP Connections

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

19. Troubleshooting

Reader Offline from the IXM WEB Dashboard



Note: Confirm communication between the IXM WEB server and the Invoxium 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**.

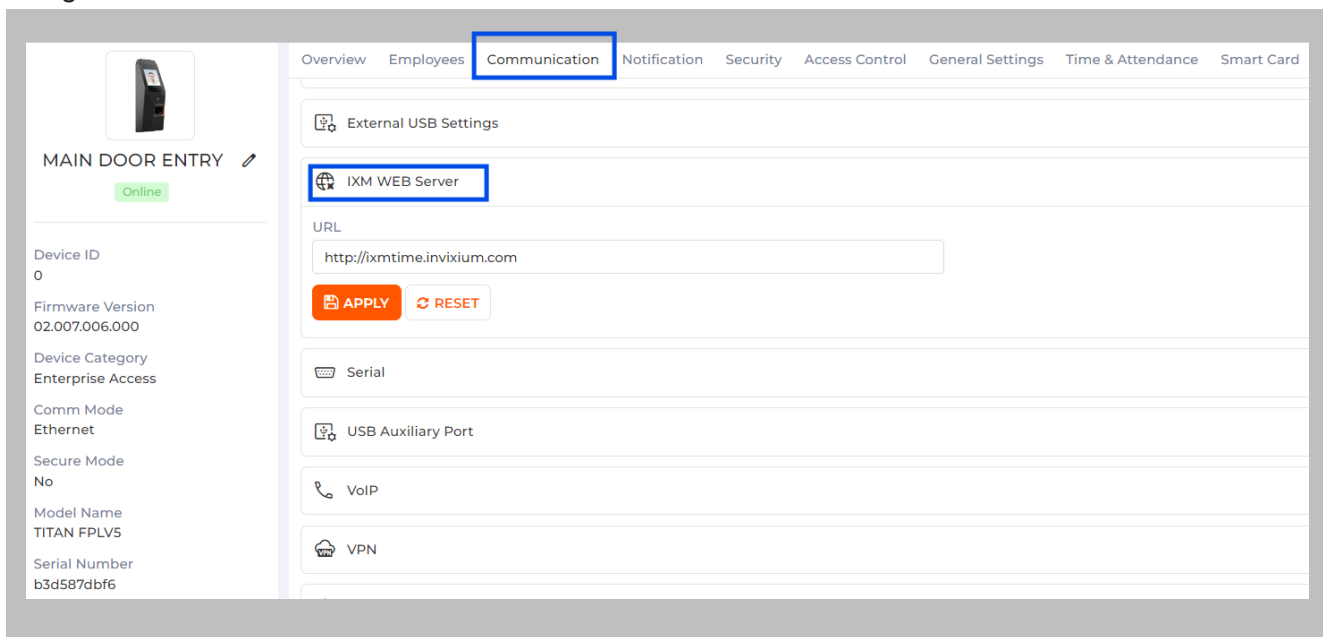


Figure 110: IXM WEB - Server URL Setting

STEP 3

Enter the **IP address** of the Invoxium 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.

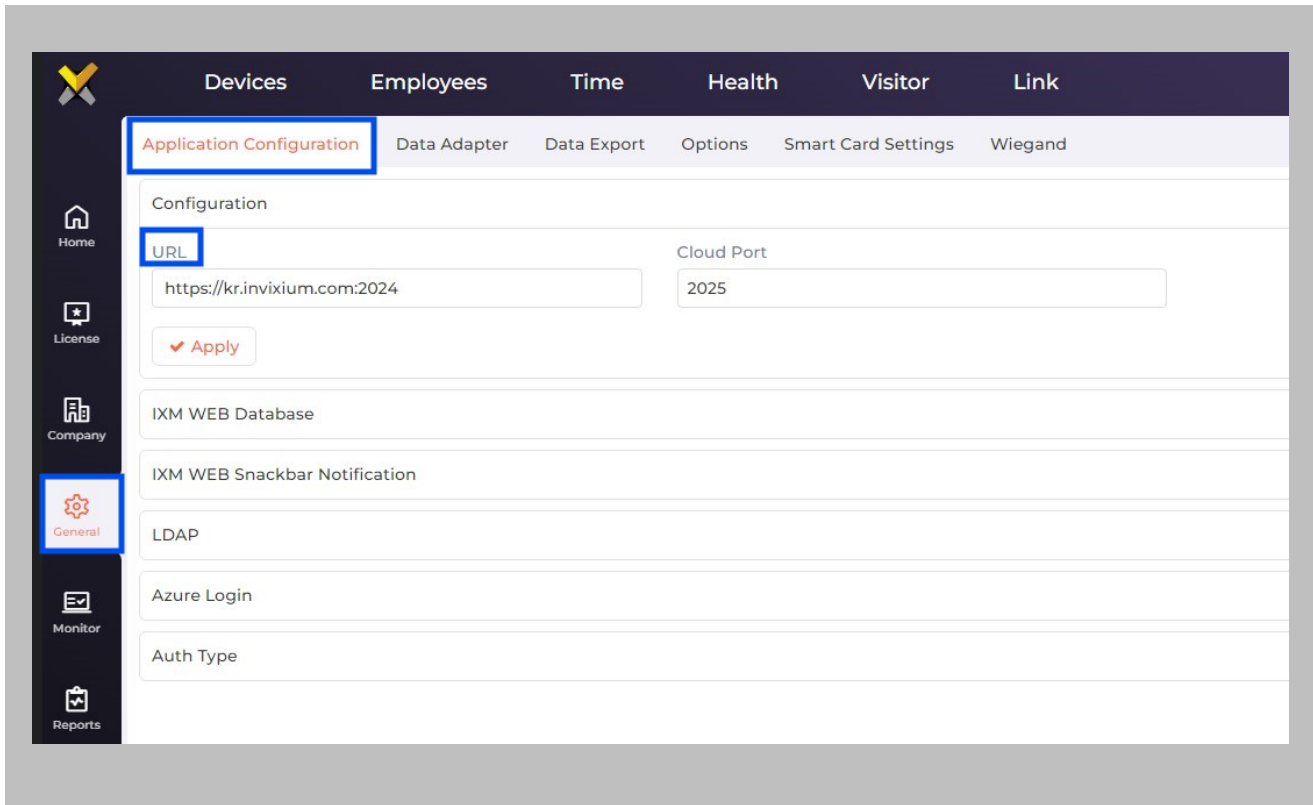


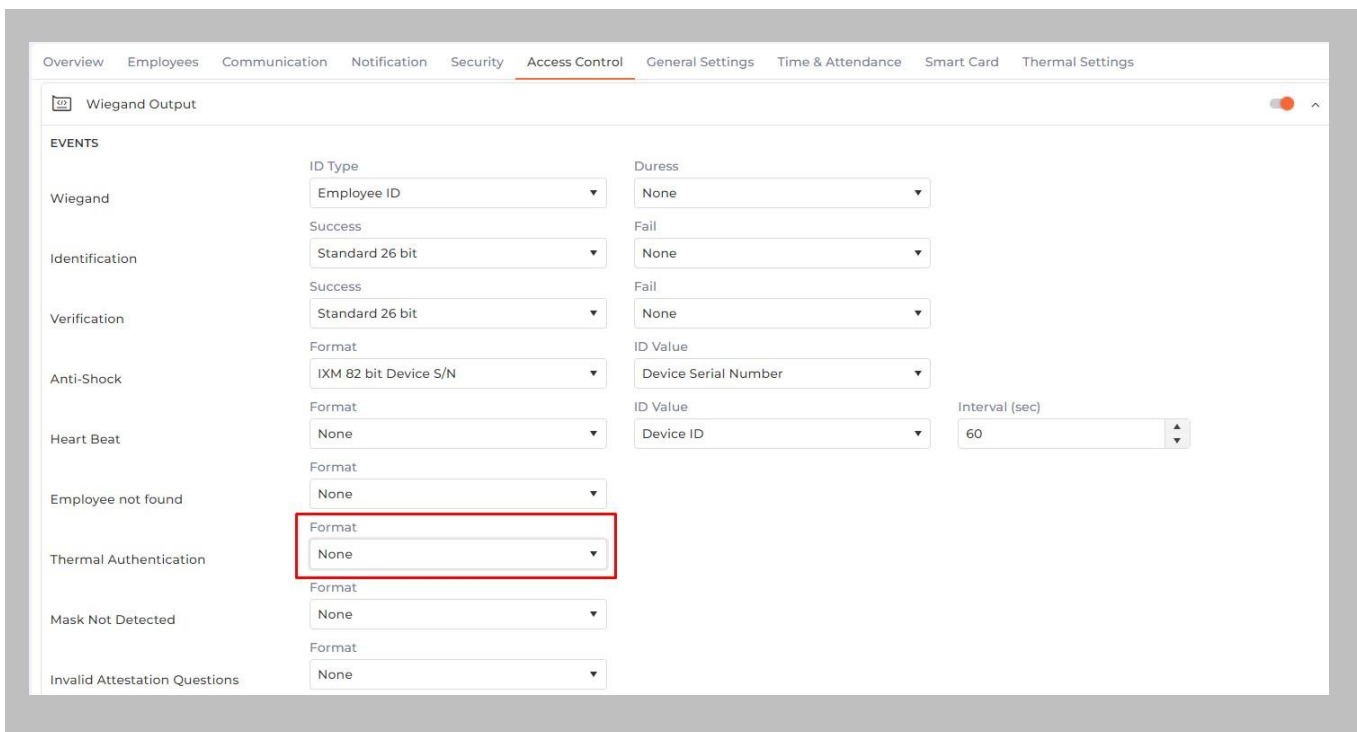
Figure 111: IXM WEB - Server URL Setting from General Settings

Elevated Body Temperature Denied Access but Granted Access in GCC

Procedure

STEP 1


Ensure that **Thermal Authentication** is selected to none from **IXM WEB** → **Device** → **Access control settings** → **Wiegand Output**.



The screenshot shows the 'Wiegand Output' configuration page in the IXM WEB interface. The page is divided into several sections for different events. The 'Thermal Authentication' event is highlighted with a red box, and its 'Format' is set to 'None'. Other events and their configurations are as follows:

Event	ID Type	Success	Format	Duress	Fail	ID Value	Interval (sec)
Wiegand	Employee ID	Standard 26 bit	IXM 82 bit Device S/N	None	None	Device Serial Number	60
Identification	Standard 26 bit	Standard 26 bit	None	None	None	Device ID	60
Verification	Standard 26 bit	Standard 26 bit	None	None	None	Device ID	60
Anti-Shock	IXM 82 bit Device S/N	None	None	None	None	Device ID	60
Heart Beat	None	None	None	None	None	Device ID	60
Employee not found	None	None	None	None	None	Device ID	60
Thermal Authentication	None	None	None	None	None	Device ID	60
Mask Not Detected	None	None	None	None	None	Device ID	60
Invalid Attestation Questions	None	None	None	None	None	Device ID	60

Figure 112: IXM WEB - Thermal Authentication Wiegand Output Event

 Note: If Thermal Authentication events are configured for any format, it generates Wiegand output accordingly for a high-temperature event.

Logs in IXM WEB Application

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

From 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 113: IXM WEB - Enable Device Logs

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

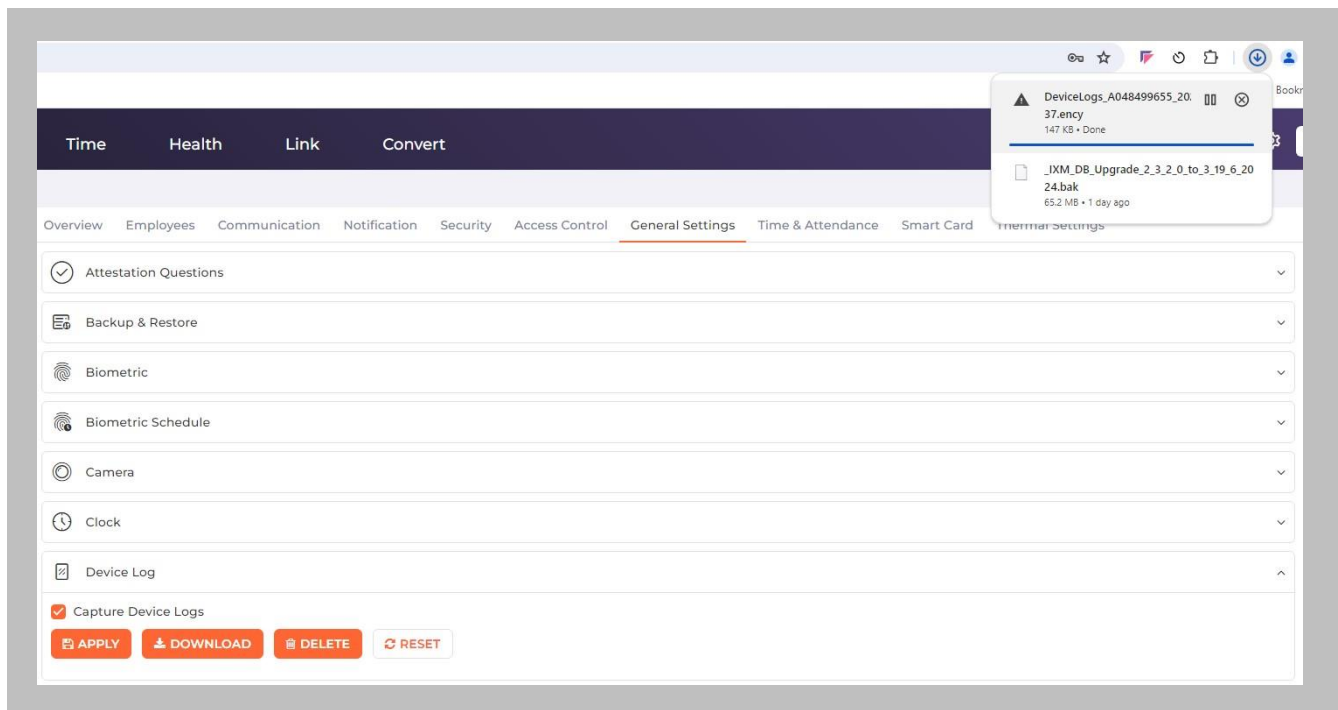


Figure 114: Save Device Log File



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

Unable to connect to the Genetec Server

Procedure

STEP 1

 Note: Confirm module activation

Navigate to **License**, and check **ACTIVATION HISTORY**. If not there, request a Licence.

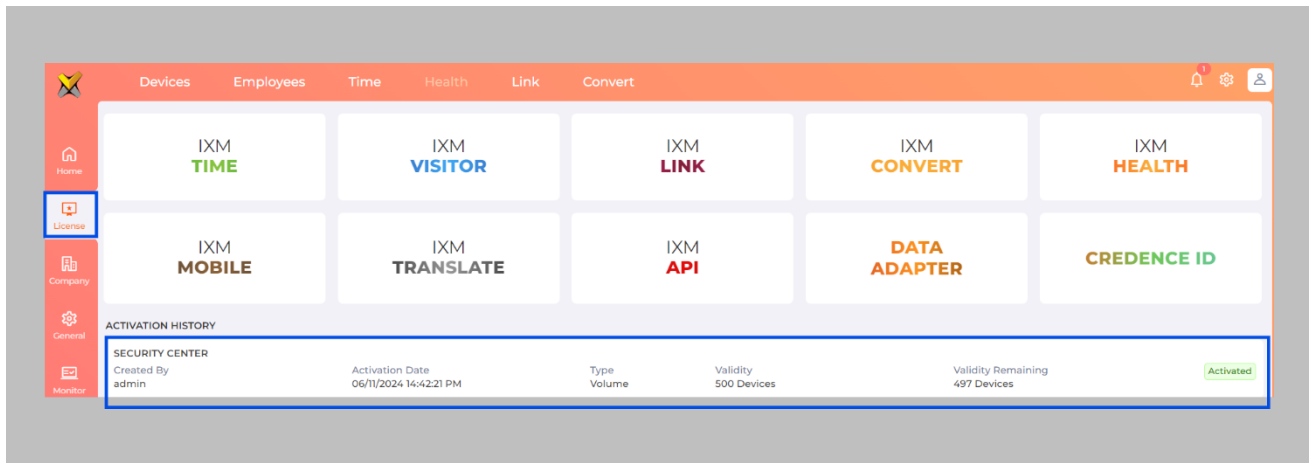


Figure 115: IXM WEB - Licence Module

STEP 2

 Note: Confirm WEB SDK is enabled.

This can be checked from GSC. Navigate to **System** → **Roles** → Click **Web-based SDK**


STEP 3

 Note: Confirm parameters entered to connect to the Genetec server.

Ensure the correct **WEB API URL** of the server is listed. here. If not, **correct** and **apply**.

Ensure the correct **User** who is authorized to connect to the WEB SDK of Genetec Security Center is listed here. If not, **correct** and **apply**.

Ensure the correct **Password** of the user who is authorized to connect to the WEB SDK of Genetec Security Center is listed here. If not, **correct** and **apply**.

 Note: If you are still facing problem with connection, please email **logtxt.txt** file to support@invixium.com.

This file is available at the following path:

Program Files (x86)\Invixium\IXM WEB\Log



20. Support

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

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