



# IXM WEB Integration with OnGuard by LenelS2

## Installation Instructions

V6V5.0

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## 1. Introduction

### Purpose

This document outlines the process of configuring the software integration between OnGuard by LenelS2 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 [LenelS2](#) OnGuard 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](mailto: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 OnGuard by using "Open Access API" to import and export cardholders.

### Acronyms

Acronym	Description
API	Application Programming Interface
IXM	Invixium
LS2	LenelS2
OAAP	OpenAccess Alliance Program





### Field Mappings

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

OnGuard Field	IXM Field	Notes
First name	First Name	<a href="#">This is mandatory for adding users to IXM WEB from OnGuard.</a>
Last name	Last Name	
Badge ID (Badge)	Number (Card)	This is mandatory for adding users to IXM WEB from OnGuard.
Issue Code (Badge)	Issue Level (Card)	
Activate (Badge)	Activation Date (Card)	
Deactivate (Badge)	Expiry Date (Card)	
Status (Badge)	Status (Card)	Cards with "Active" status in OnGuard are only synchronized to IXM WEB. In case of other status, cards will be deleted from IXM WEB
<<Custom Field>>	Pin	To synchronize PINs from OnGuard to IXM WEB, users have to configure a custom field in OnGuard and provide the name of the custom field on the IXM Link configuration page. <del>PIN length must be 4-10 characters.</del>
Photo	Photo	
Access Levels	Employee Group / DeviceGroup / 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 with respective Access Levels from OnGuard will be automatically added to the employee group in IXM WEB.

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Note: Multiple Cards - OnGuard can have multiple badges (cards) per cardholder, and IXM WEB supports a maximum of 10 cards per employee.



## 2. Compatibility

### Invoxium Readers

TITAN	TFACE	TOUCH2	SENSE2	MERGE2	MYCRO
All models	All models	All models	All models	All models	All models



Note: Invoxium devices with the OnGuard category will only be registered in IXM WEB if they have the OnGuard license activated.

### Software Requirements

Application	Version
OnGuard	v7.6 / v8.0 / <del>v8.1</del>
IXM WEB	3.0. <del>35</del> 36.0
Operating Systems	<del>Windows 11 Pro</del> Windows 10 Professional Version <del>Windows 11 Pro</del> Windows Server 2016 Standard Windows Server 2019
Microsoft .NET Framework	.NET Framework 4.8
Database Engine	SQL Server 2014 or higher
Internet Information Services (IIS)	Microsoft® Internet Information Services version 10.0
Web Browser	Google Chrome Mozilla Firefox Microsoft Edge (Internet Explorer not recommended)

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### 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 small to medium business installations. For large enterprise installation server requirements, contact [support@invixium.com](mailto:support@invixium.com).

### Compatibility Matrix for IXM WEB & OnGuard Integration:

IXM WEB version	OnGuard version	Compatible
IXM WEB 2.2.57.0	v7.6	Yes
IXM WEB 2.2.57.0	v8.0	Yes
IXM WEB 2.2.224.0	v7.6	Yes
IXM WEB 2.2.224.0	v8.0	Yes
IXM WEB 2.2.230.0	v8.0	Yes
IXM WEB 2.2.252.0	v8.0	Yes
IXM WEB 2.2.252.0	v8.1	Yes
IXM WEB 2.2.330.0	v8.0	Yes
IXM WEB 2.2.330.0	v8.1	Yes
IXM WEB 2.3.20.0	v8.0	Yes
IXM WEB 2.3.20.0	v8.1	Yes
IXM WEB 3.0.3536.0	v8.0	Yes
IXM WEB 3.0.3536.0	v8.1	Yes

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Table 1: Compatibility Matrix for IXM WEB & OnGuard



### 3. Checklist

<b>Item List</b>	<b>Interface</b>
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 LenelS2	Invixium
Creation of API Users in IXM WEB	Invixium
Configure Readers in OnGuard	LenelS2
Configure Invixium Readers	Invixium
Face, Fingerprint or Finger Vein Enrollment	LenelS2
Configure Logical Events	LenelS2
Configure Custom PINs (Optional)	LenelS2



## 4. Task List Summary

Task	IXM WEB Task List	OnGuard Task List
1	Activate IXM WEB and IXM Link for <a href="#">LenelS2</a> OnGuard	Add a reader with the same name as an IXM reader present in IXM WEB
2	Configure IXM Link for OnGuard	Create an Access Level and add a reader to it
3	Add a new API System User in IXM WEB for enrollment	Create Cardholders, Assign Badges and Assign Access Levels to cardholders
4	Register an IXM Device and configure settings as per the requirement	Configure Partner Connector Workstations for Enrollment
5	Configure Weigand or OSDP settings in device for integration with Access Panels	Enroll cardholder biometrics (Face, fingerprint, finger vein) from the enrollment addon
6	Download the Add-on for enrollment from the Link Configuration page	Add logical devices with the same name as an IXM reader present in IXM WEB for Temperature and Mask Events using OnGuard
7		Monitor Events and Generate Reports

Table 2: Task List Summary

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## 5. Prerequisites for Installing Invixium IXM WEB Software

### Getting an IXM WEB activation key

#### Procedure

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

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

The screenshot shows a web form titled "IXM WEB Download and Activation". Below the title is a sub-header "Who are you?" with four radio button options: "Distributor" (selected), "Access Control Panel Manufacturer", "Installer/Integrator", and "End User". The next section is "Customer Details", which includes a brief instruction and a grid of input fields for "First Name\*", "Last Name\*", "Company Email\*", "Company Name\*", "Select Country\*" (a dropdown menu), and "Phone Number\*". The final section is "Installer Details", also with a brief instruction and a grid of input fields for "First Name\*", "Last Name\*", "Company Email\*", "Company Name\*", "Phone Number\*", "Street Address 1", "Street Address 2", "City\*", "State\*", "Select Country\*" (a dropdown menu), and "Postal Code\*". At the bottom of the form are two blue buttons: "< Back" and "Submit".

Figure 1: IXM WEB Online Request Form







After submitting the completed form, an email will be sent with instructions from [support@invixium.com](mailto: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 email that includes instructions on how to download and install IXM WEB along with your Activation ID.

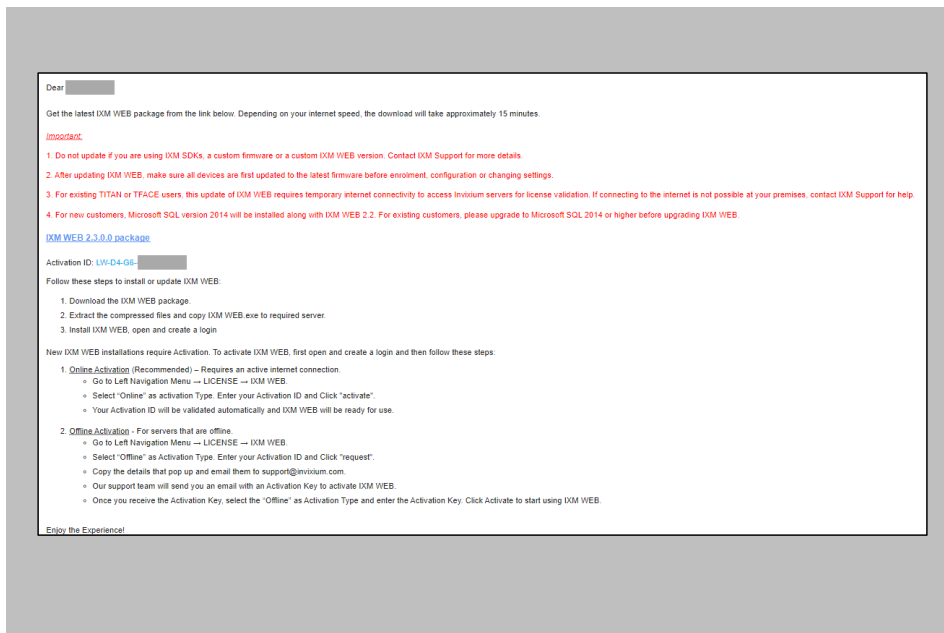


Figure 2: Sample Email After Submitting Online Request Form



## Minor Checklist and Considerations

Use these tables to verify that you have conducted 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 the 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
LenelS2 Open Access API Port	8080

Table 4: Port Information



## 6. Installing IXM WEB

### Software Installation

#### STEP 4

#### Procedure

#### STEP 4

Run the IXM WEB installer (Run as administrator), then click **Install**. It will display a popup window to accept the **License Agreement**.

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Figure 3: IXM WEB Installer



**STEP 2**

Click 'Yes' in the popup window. The IXM WEB installer will start 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 choose a port number that communicates with the IIS server. Click **Advance**.

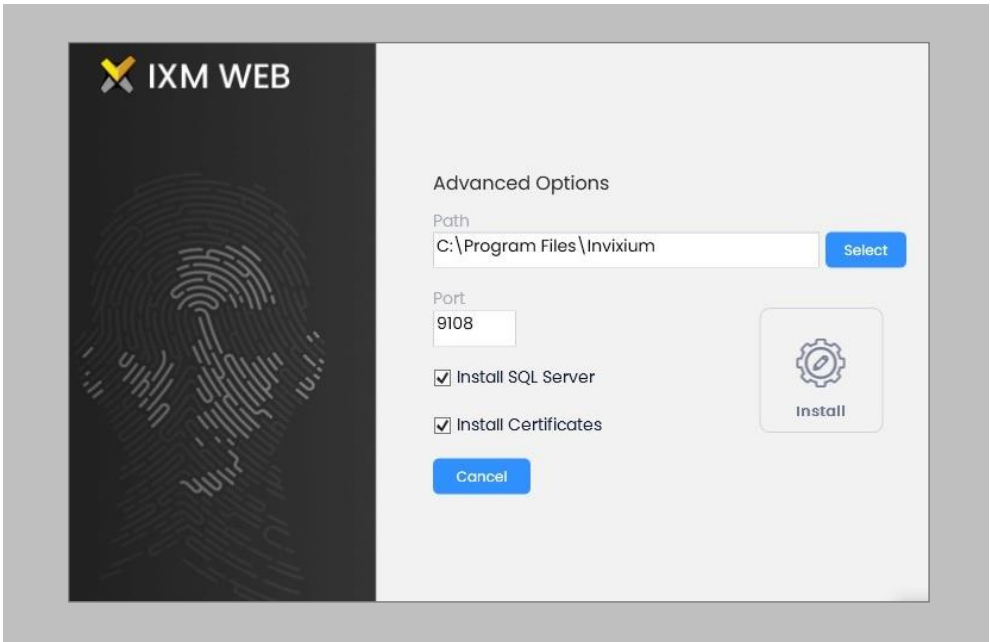
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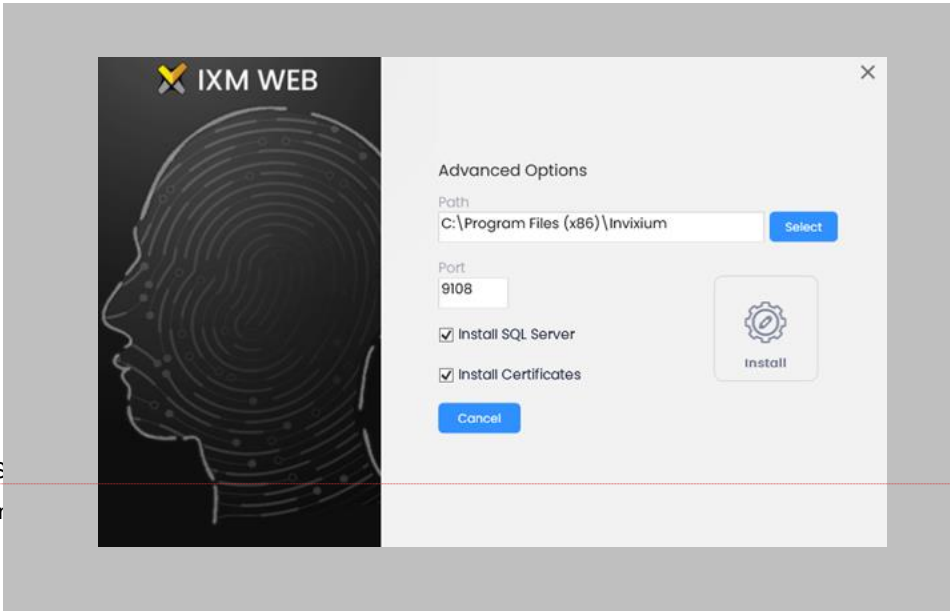
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machine where the IXM WEB package will be extracted.

- **Port Number:** By default, the port number is “9108”. Users can change the port number that is generally used to communicate 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. It also installs specific certificates used for communication when configured through the cloud. 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.

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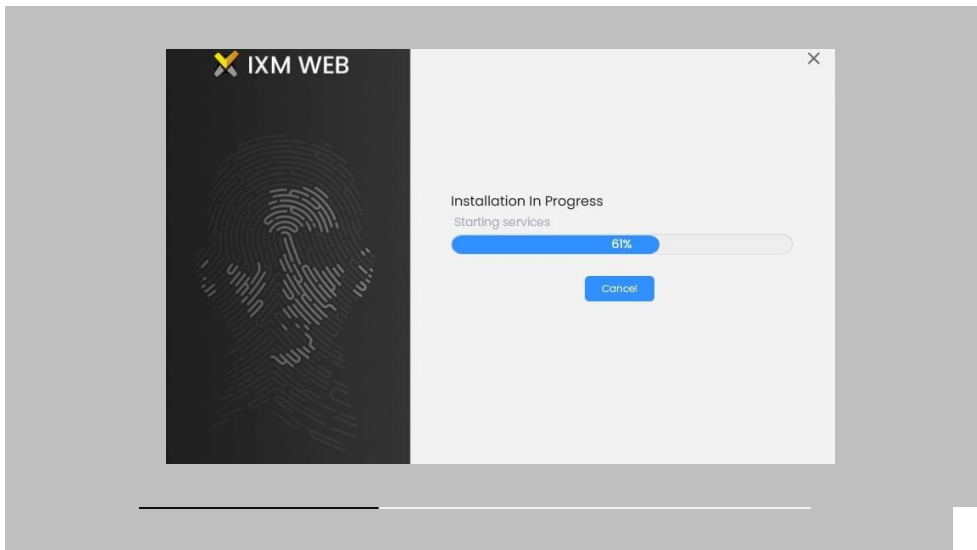


Figure 5: IXM WEB Installation

### STEP 6

Once the installation process completes, the user can click **Complete** to finish.

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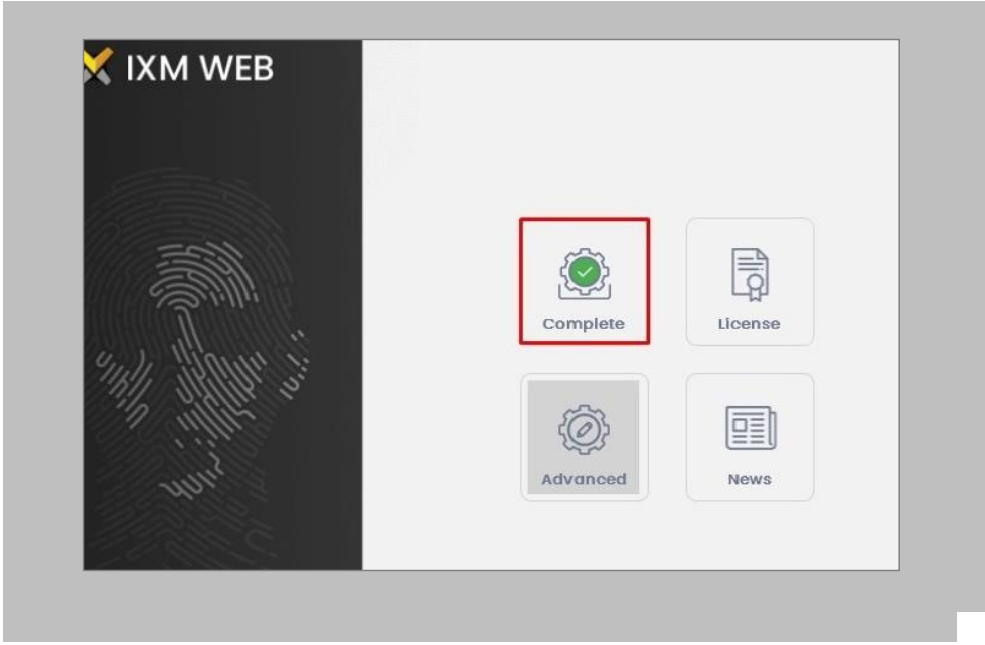


Figure 6: IXM WEB Installation Completed



**STEP 7**

The IXM WEB package will create a **shortcut icon** on the desktop after the process.



Figure 7: IXM WEB Icon - Desktop Shortcut

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**STEP 8**

Double click on the shortcut icon from the desktop to open **IXM WEB** in the default browser. Users can also open a browser and run the IXM WEB application.

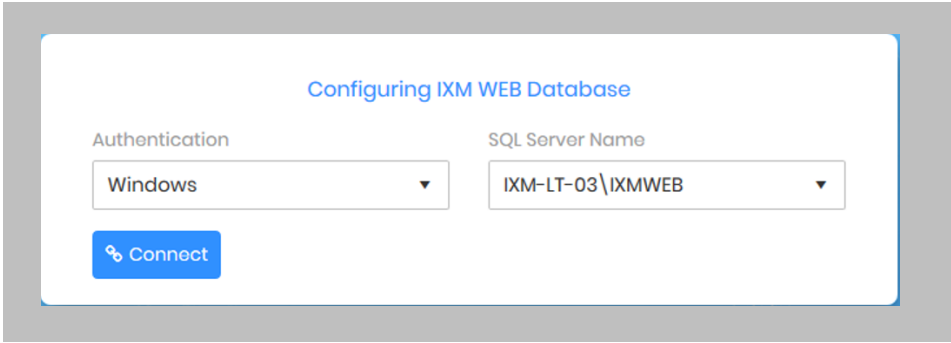


Figure 8: IXM WEB Database Configuration

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**STEP 9**

**IXM WEB** will populate the default SQL Server name and SQL Server instance.

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STEP 10

If the user wants to configure a database that is installed on another machine, then select the 'SQL Server' option from the Authentication field. By selecting the 'SQL Server' option, the user will have to add credentials (SQL User Name and Password) to connect to the Database Server machine.

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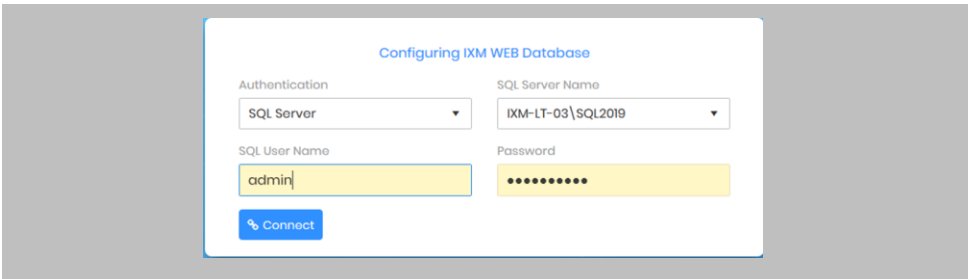
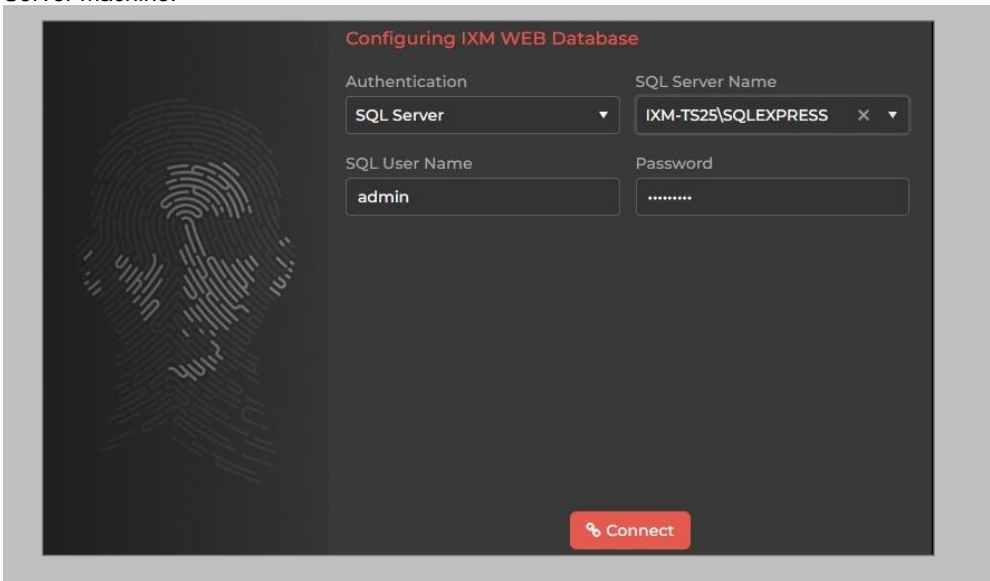


Figure 9: SQL Database Configuration

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STEP 11



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If a user wants to use the same database instance on the same machine, then click connect to verify if the connection is established with the SQL Instance.



STEP 12

Enter a new **Database** name if there is no previously set up database available.

A screenshot of a web configuration interface titled "Configuring IXM WEB Database". It contains three dropdown menus: "Authentication" set to "Windows", "SQL Server Name" set to "IXM-LT-03\SQL2019", and "Database Name" set to "IXMDB". At the bottom, there are two buttons: "< Back" and "> Next".

Figure 10: IXM WEB Database Name

STEP 13

Click **Next**.

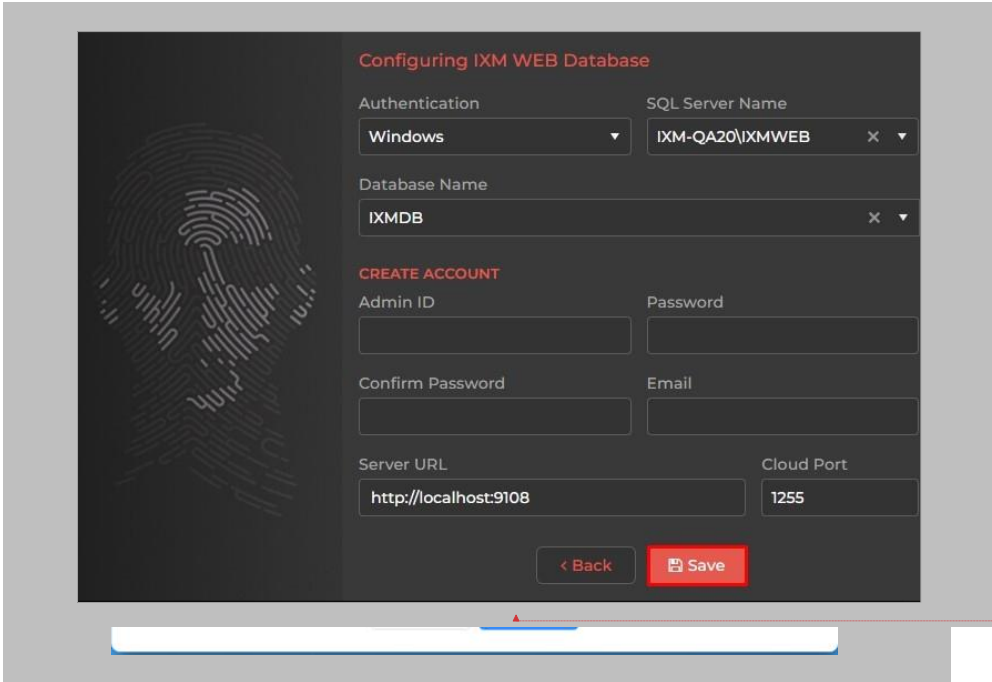


Figure 11: IXM WEB Administrator User Configuration

**STEP 44**

**STEP 44**

Users can provide the necessary values to all the fields displayed under the 'Create Account' section.

**STEP 4215**

The fields and their functions are mentioned below:

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- **Invixium ID:** Users can add a username that will have all the rights to access any settings within IXM WEB. This Invixium ID should have a minimum of 5 characters. This Invixium ID configuration will have administrator rights.
- **Password:** The user can set a password. While typing the password, IXM WEB will also display the strength of the entered value to determine how secure the password field is.
- **Confirm Password:** Enter the password value once again. Users need to enter the same password that they entered in the password field.
- **Email:** Set an administrator email address, IXM WEB will use this email address in the future in case the password needs to be reset, or to send any type of email notification.
- **Server URL:** Users can set a Web URL or an IP Address on the machine where IXM WEB is installed along with the port number. By default, the port number is 9108. Format: [http://IP\\_IXMServer:9108](http://IP_IXMServer:9108)
- **Cloud Port:** If a user wants to configure the devices over WEB Cloud, then a specific port number needs to be mentioned in the Cloud Port field. By default, the Cloud Port value is 1255.



**STEP 4316**

Once the user is done providing all the values, click **Save**.

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**Configuring IXM WEB Database**

Authentication: Windows | SQL Server Name: IXM-LT-03\SQL2019

Database Name: IXMDB

**CREATE ACCOUNT**

INVIXIUM ID: admin | Password: Medium | Confirm Password: | Email: support@invixium.com

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

< Back | **Save**

Figure 12: Save Database Configuration

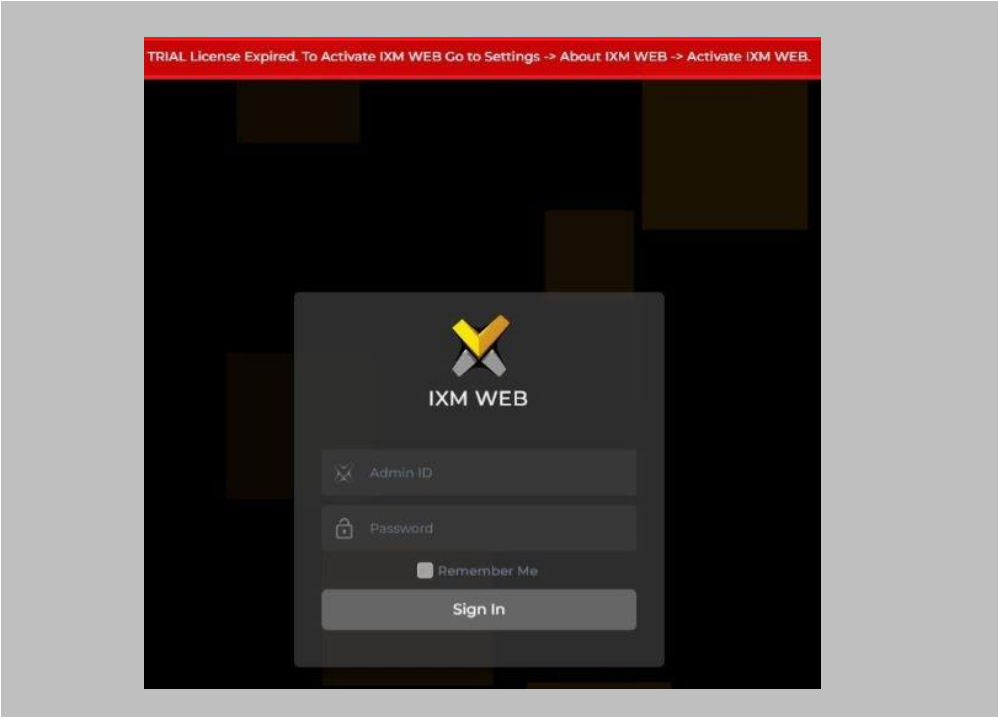


**STEP 17**

**STEP 14**

Using the provided values, IXM WEB will create a database and, upon success, the user will be redirected to the [Login Page](#).

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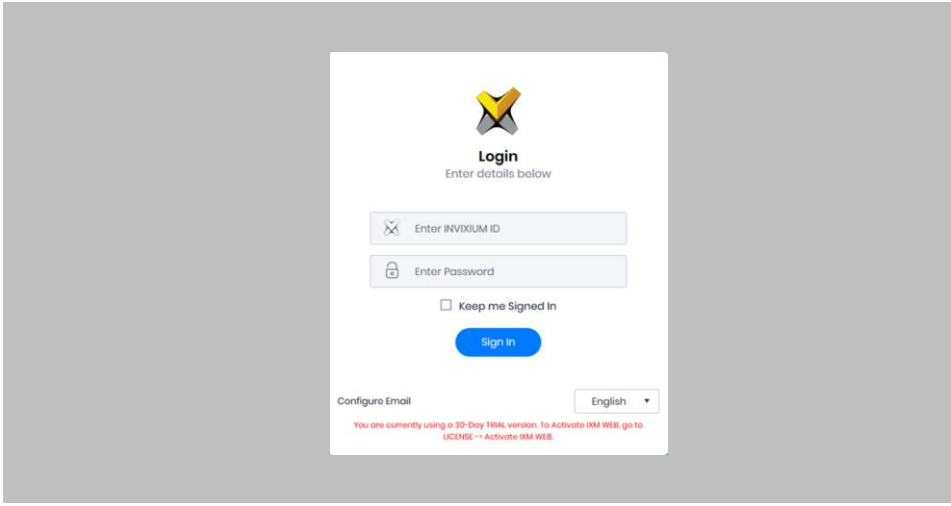


Figure 13: IXM WEB Login Page

 **Note:** During an upgrade of IXM WEB from any previous release to 3.0.35.0, 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.





## 7. Configuring Email Settings ~~using~~Using IXM WEB

Configuring ~~Email~~email settings is highly recommended as one of the first steps ~~to perform~~ after installing ~~the~~ IXM WEB. Email configuration settings will help the ~~admin retrieve~~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

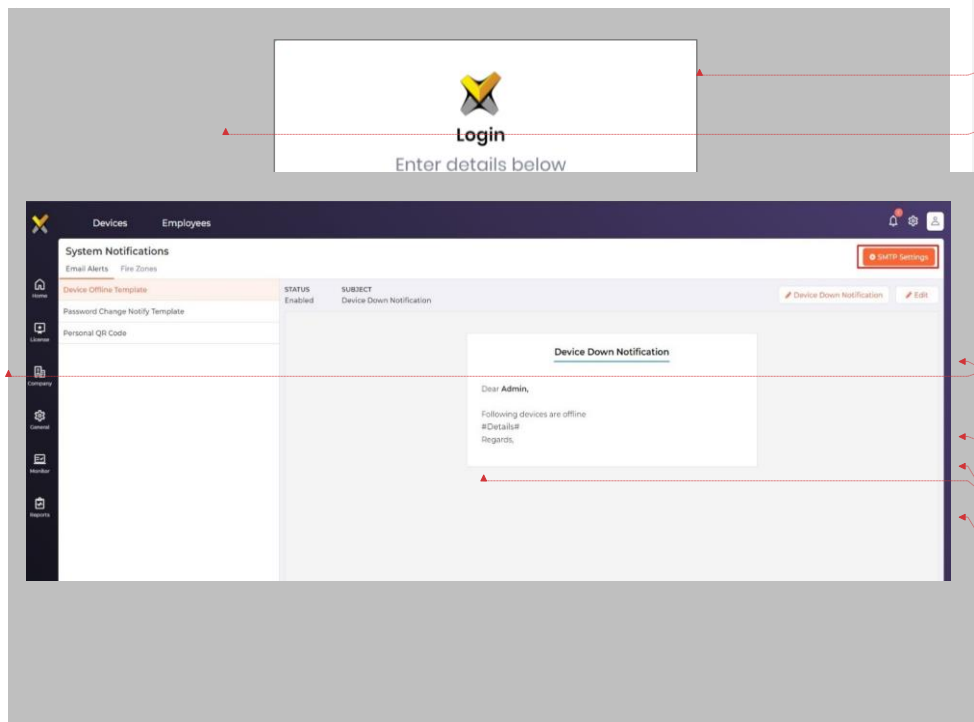
#### Procedure

#### STEP 1

#### Procedure

#### STEP 1

Click **Configure Email** on the Login and navigatepage.



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Figure 14: Configure Email

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**STEP 2**

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Select ‘

STEP 2

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

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Figure 15: 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.



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### STEP 3

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

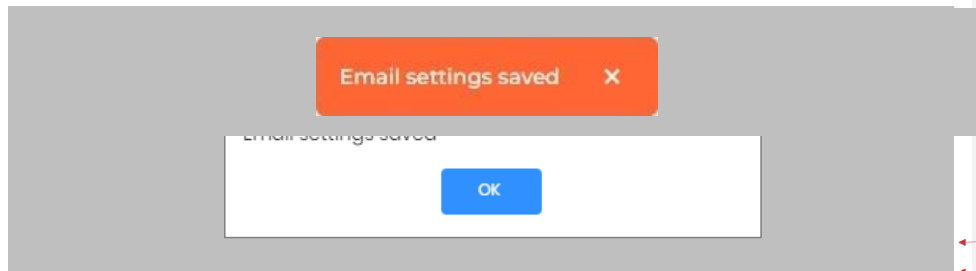
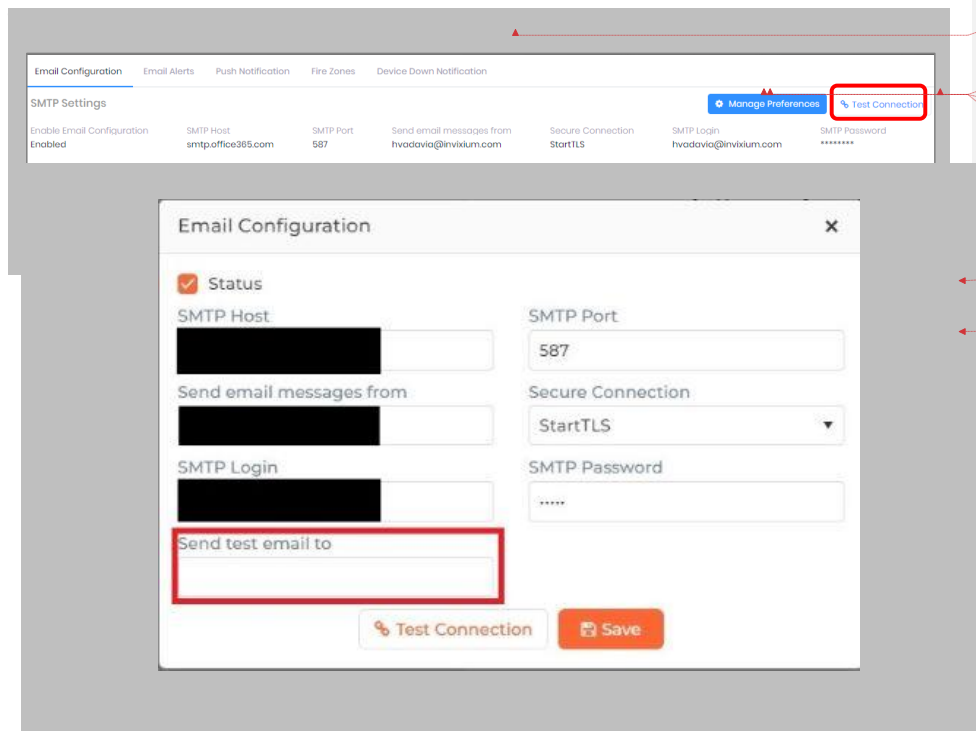


Figure 16: IXM WEB - Save Email Settings



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Figure 17: IXM WEB  Test Connection

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

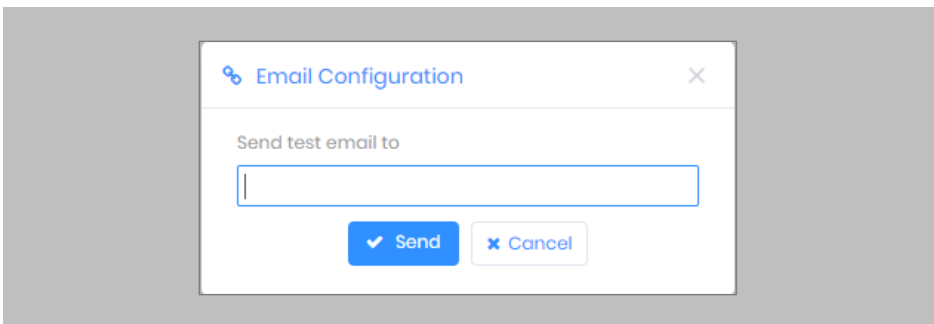
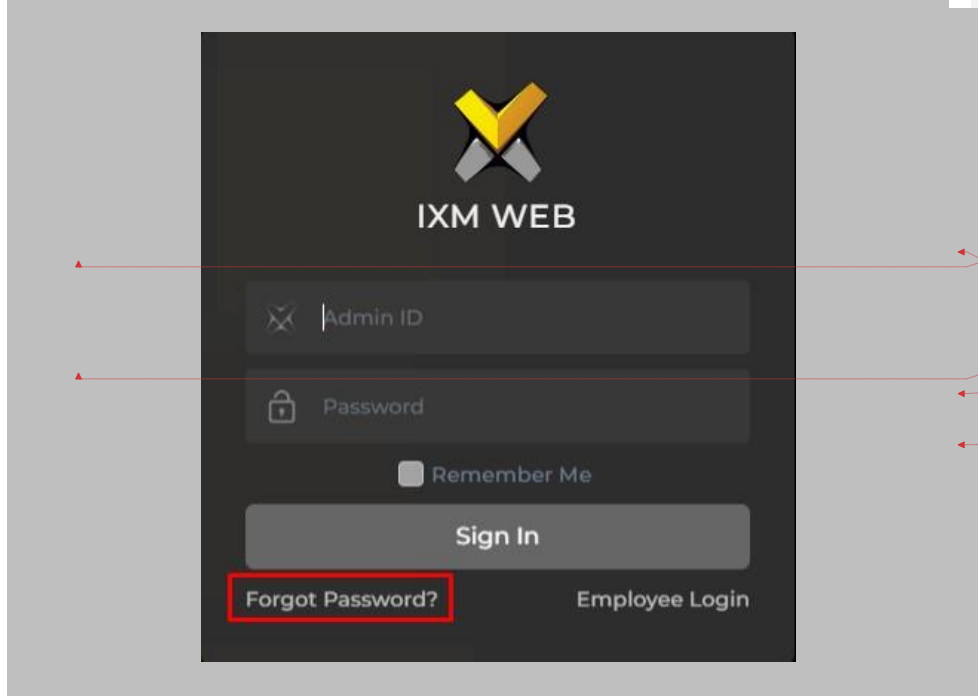


Figure 18: IXM WEB - Enter Email ID

#### STEP 4

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



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Figure 19: IXM WEB - Forgot Password

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## 9-8. Software and Module Activation

### IXM WEB Activation

Procedure

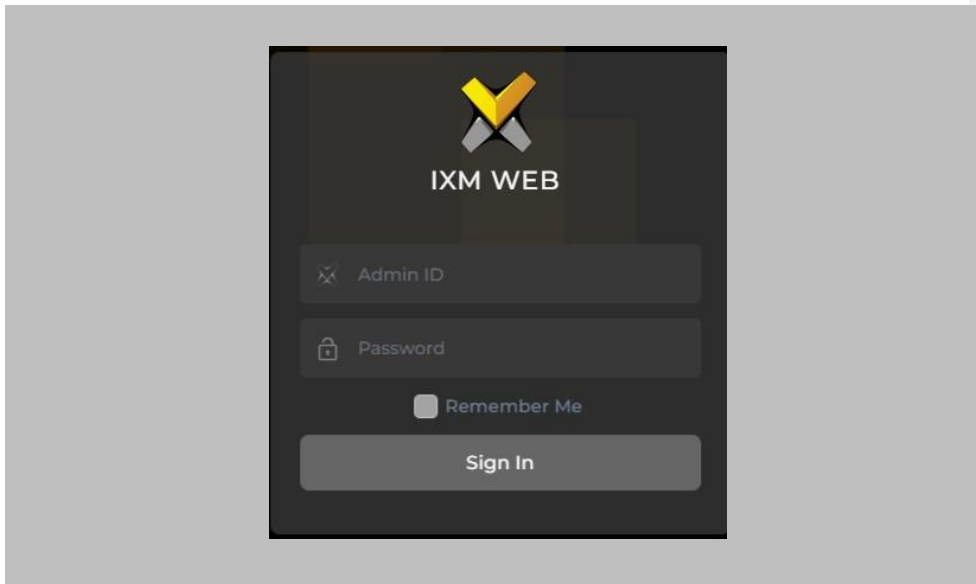
#### STEP 1

Log into IXM WEB.

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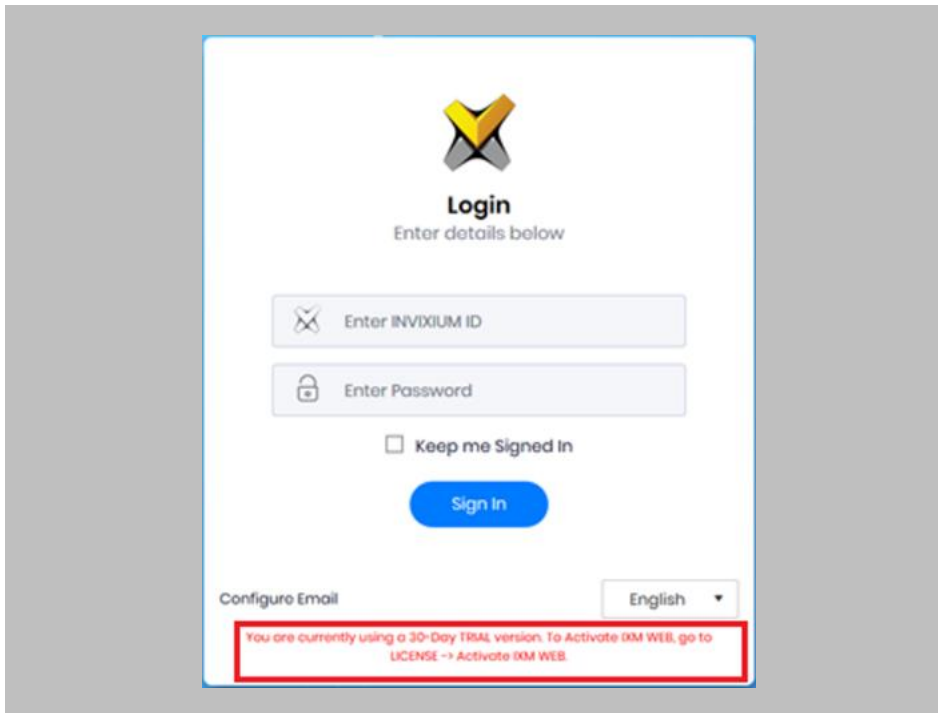


Figure 20: IXM WEB - Enter Login Credentials

STEP 2

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**STEP 2**

Select the **Settings Icon** on top right of page **License Tab** and then click **About** select the **IXM WEB** module to request an activation key for **IXM WEB**.

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IXM Web

Activation Type

Online

Enter Key

Activate

Need Help? [Contact customer support](#)

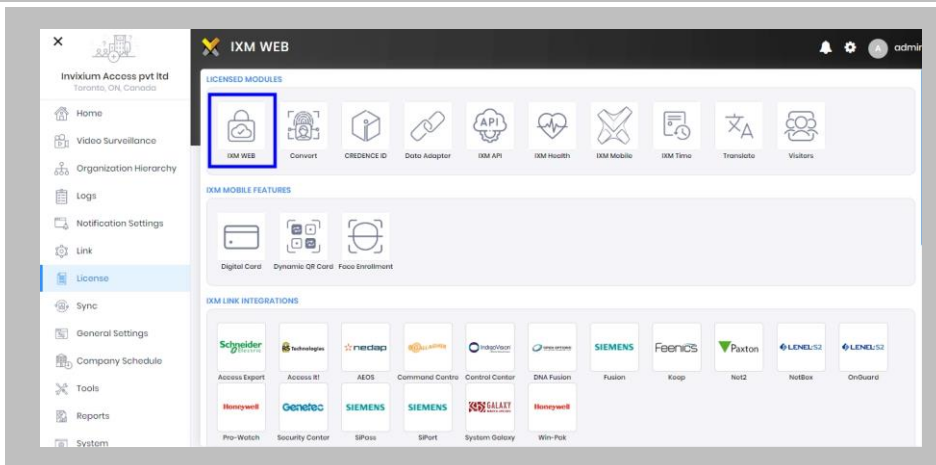


Figure 21: IXM WEB - License Setup

**STEP 3**

Request ~~Activation Key Online~~ **an activation key online** or via **Offline Activation Options**.

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

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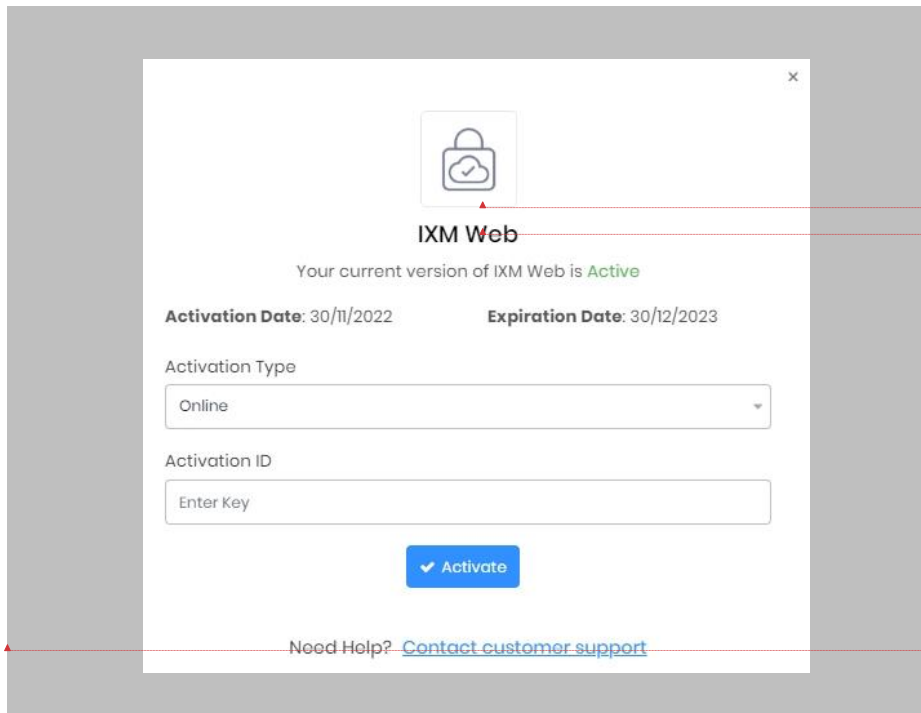
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**STEP 4**

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



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Figure 22: IXM WEB - Online Activation

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## OnGuard by LenelS2 Module Activation

The option to request an OnGuard License is available under the [License](#) tab.

### STEP 1

Select **Settings** icon on top right of the page >> Click on **About IXM WEB** >> Click on **copy to clipboard** button next to **MACHINE KEY**.

Request a **License** by sending email to [support@invixium.com](mailto:support@invixium.com). Paste the copied machine key in the email.

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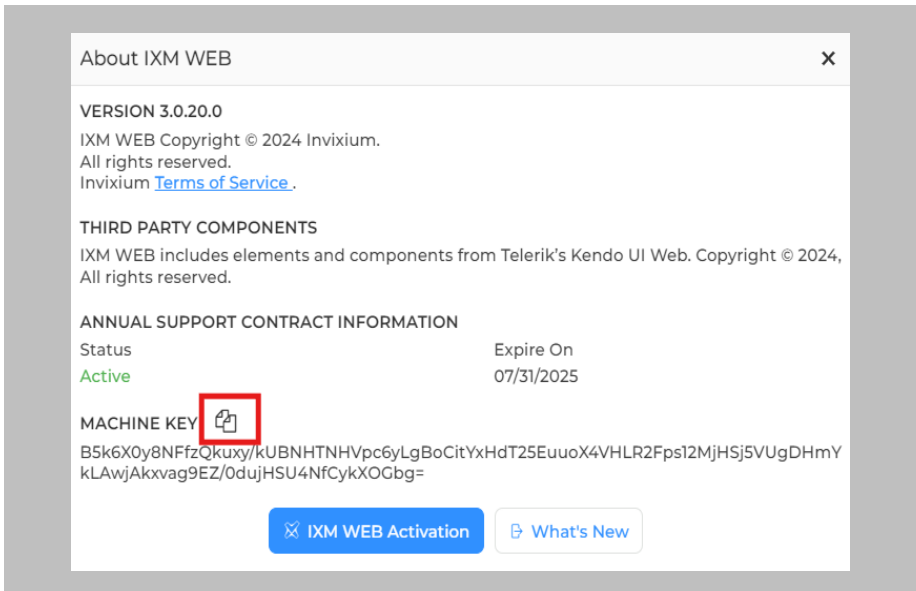


Figure 19: IXM WEB — Request Link License

### Request a License.

### STEP 2

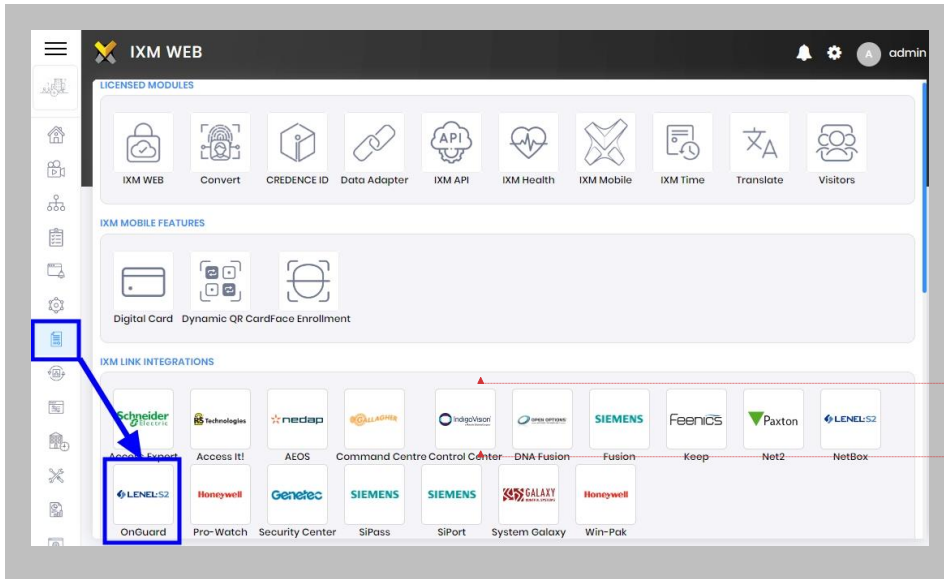
From **Home**, expand the **Left Navigation Pane**, and go to the **License** tab. Click on **OnGuard (LenelS2)**.

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**STEP 3**

You will receive an email from **Invixium Support** with a license key for the OnGuard Activation.

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**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: **Lenel**
- 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](mailto:support@invixium.com)  
Work Hours: 12:00AM to 5:00PM (Eastern Time)      Skype: [invixium\\_support](https://www.skype.com/en/contacts/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 23: OnGuard License Key Email



**STEP 4**

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**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: **Lenel**
- 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](mailto: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 20: OnGuard 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**.

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Figure 21: IXM WEB – Activate LeneIS2 Link License



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24: [IXM WEB - Activate LenelS2 Link License](#)

**RESULT**

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

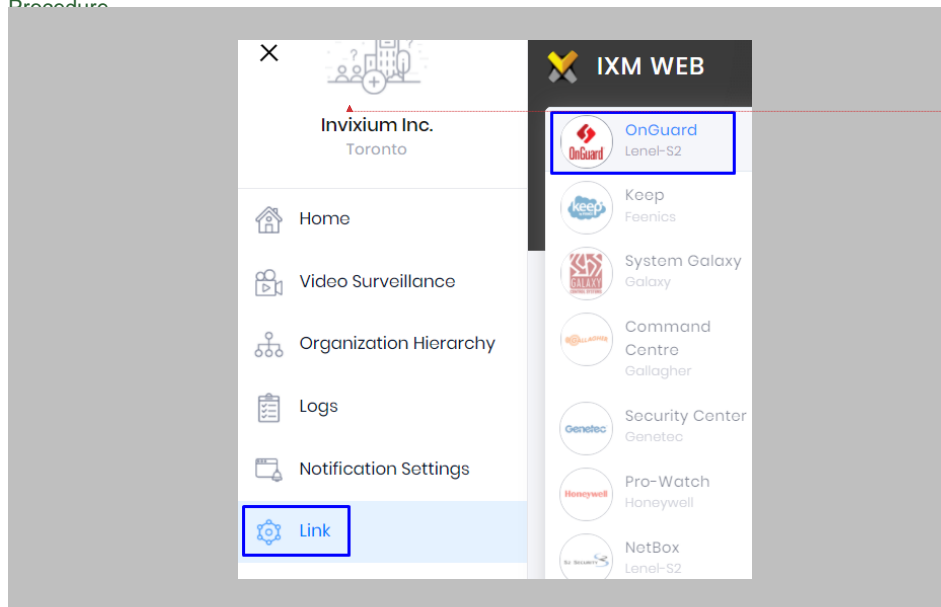


## 10.9 Configuring IXM Link for OnGuard by LenelS2 ~~using Event Subscription~~

### Procedure

#### STEP 4

Procedure



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Figure 25: IXM WEB - Link Menu





### STEP 2

Toggle the **Status** switch to enable.

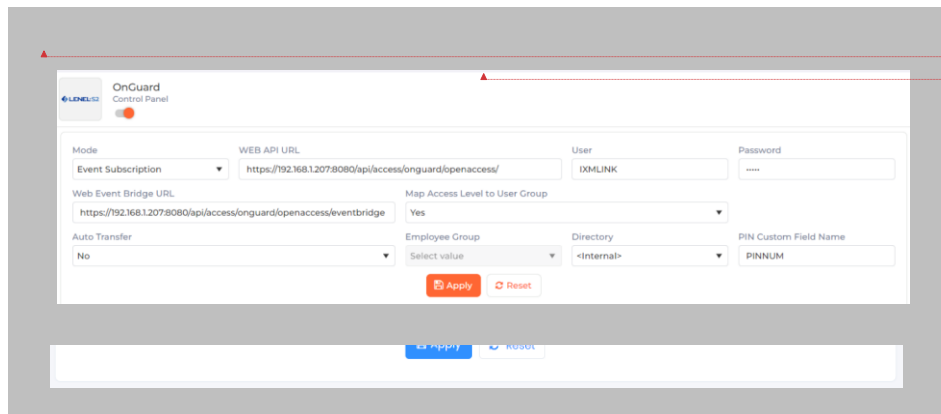


Figure 26: IXM WEB - Enable OnGuardLene-S2 Link Module Event Subscription

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### STEP 2

#### Select Mode

**Event Subscription (recommended):** Integration will be based on web event bridge. Software events subscription sends events to IXM WEB in case of add / update / delete action(s) of cardholder and badges.

 **Note:** Generate Software Events should be enabled in system administration application. This can be done from Administration -> System Options -> General System Options -> Open Access Host -> Enable Generate Software events.

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### STEP 3

Enter the **WEB API URL** which is **OnGuard Open Access API URL**. For example:  
<https://172.16.254.40:8080/api/access/onguard/openaccess/>

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**STEP 4**

**Enter your Username and Password for accessing Open Access API.**

**STEP 5**

**Specify in seconds how often sync should take place.**

**STEP 6**

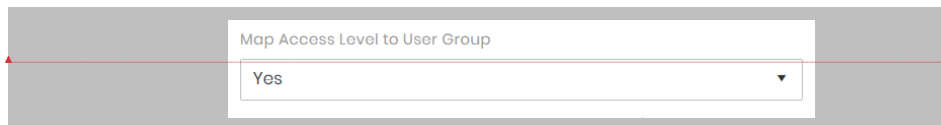
**Select Map Access Level to Employee Group.**

**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 OnGuard 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.**

For example: <https://172.16.254.40:8080/api/access/onguard/openaccess/>



**Enter the Web Event Bridge URL for Event Subscription mode.**

For example: <https://192.168.1.207:8080/api/access/onguard/openaccess/eventbridge>

**STEP 4**

**Enter your Username and Password for accessing Open Access API.**

**STEP 6**

**Select Map Access Level to Employee Group.**

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**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 OnGuard 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 form element. It features a label 'Map Access Level to User Group' above a dropdown menu. The dropdown menu is open, showing the option 'Yes' selected. The background is a light gray.

Figure 27: IXM WEB - Map Access Level to User Group

## STEP 7

### Auto Transfer

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

A screenshot of a web form element. It features a label 'Auto Transfer' above a dropdown menu. The dropdown menu is open, showing the option 'No' selected. The background is a light gray.

Figure 28: IXM WEB - Auto Transfer No

**Yes:** On selecting 'Yes' for Auto Transfer, the employee group selection dropdown enables displaying all the employee groups present in IXM WEB. All the employees synchronized from OnGuard will be automatically added to the employee group selected on the Link Configuration Page.

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A screenshot of a web interface showing two dropdown menus. The first menu is labeled 'Auto Transfer' and has 'Yes' selected. The second menu is labeled 'Employee Group' and has 'All Employees' selected. The interface is set against a light grey background.

Figure 29: IXM WEB - Auto Transfer Yes

### STEP 8

Select the **Directory** to which the API user belongs.

### STEP 9

Copy the custom field name created for '**PIN Number**' (refer to [Configure Custom PIN Field in OnGuard](#))

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## STEP 10

Click **Apply**.

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

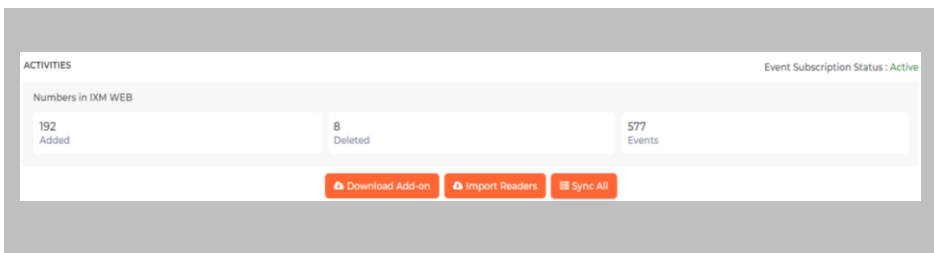


Figure 31: IXM WEB – Sync Activities Event Subscription Mode

Note: **Sync Now** button will not be visible for event subscription mode.

Event subscription status will be shown as follows.

**Active:** Integration is working as expected and changes of software events will be received in IXM WEB and processed. Here connection is active based on Lenel Web Event Bridge.

**Inactive:** Connection of IXM WEB is disconnected from Lenel Web Event Bridge.

**Added:** This will show count of new employees successfully created in IXM WEB.

**Deleted:** This will show count of deleted employees from IXM WEB.

**Events:** This will show event count of software events received from OnGuard application.

## STEP 11

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

### RESULT

When data is synchronizing based on changes received from OnGuard, the numbers in view will change accordingly.

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## 11. Configuring IXM Link for OnGuard by LenelS2 using API

### Procedure

#### STEP 1

From the **Link** → click the **OnGuard (LenelS2)** icon.

Toggle the **Status** switch to enable.

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Figure 27: IXM WEB – Enable OnGuard Link Module API mode

#### STEP 2

##### Select Mode

**API:** Integration will be based on invoking Open Access API on regular interval to import cardholders and badges from OnGuard to IXM WEB.

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#### STEP 3

Enter the WEB API URL which is **OnGuard Open Access API URL**.

For example: <https://172.16.254.40:8080/api/access/onguard/openaccess/>

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#### STEP 4

Enter your **Username and Password** for accessing Open Access API.

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### STEP 5

Specify in seconds how often **sync** should take place.

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### STEP 6

Select **Map Access Level** to Employee Group.

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**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 OnGuard 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.

Map Access Level to User Group  
Yes

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Figure 23: IXM WEB – Map Access Level to User Group

### STEP 7

#### Auto Transfer

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

Auto Transfer  
No

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Figure 24: IXM WEB – Auto Transfer No



**Yes:** On selecting 'Yes' for Auto Transfer, the employee group selection dropdown enables displaying all the employee groups present in IXM WEB. All the employees synchronized from OnGuard will be automatically added to the employee group selected on the Link Configuration Page.

A screenshot of a web interface showing two dropdown menus. The first dropdown is labeled 'Auto Transfer' and has 'Yes' selected. The second dropdown is labeled 'Employee Group' and has 'All Employees' selected. The interface is set against a light grey background.

Figure 25: IXM WEB—Auto Transfer Yes

#### STEP 8

Select the **Directory** to which the API user belongs.

#### STEP 9

Copy the custom field name created for '**PIN Number**' (refer to [Configure Custom PIN Field in OnGuard](#))





### STEP 10

Click **Apply**.

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

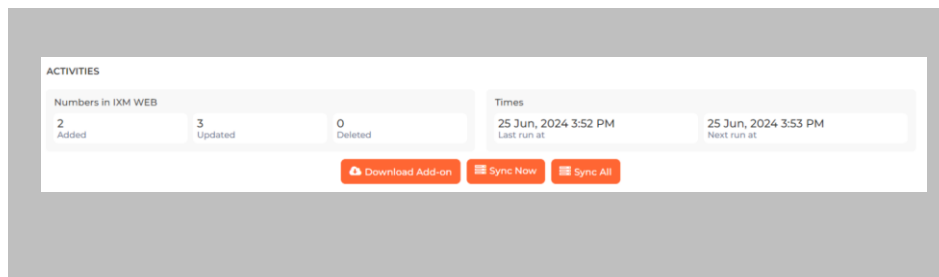


Figure 30: IXM WEB - Sync Activities-~~API Mode~~

### STEP 11

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 ~~11~~12

If the sync direction is selected as OnGuard to IXM WEB (One-way sync) then the **Sync All** button will get displayed.

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### STEP 13

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

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### RESULT

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

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## 12.10. Create API System Users for Biometric Enrollment

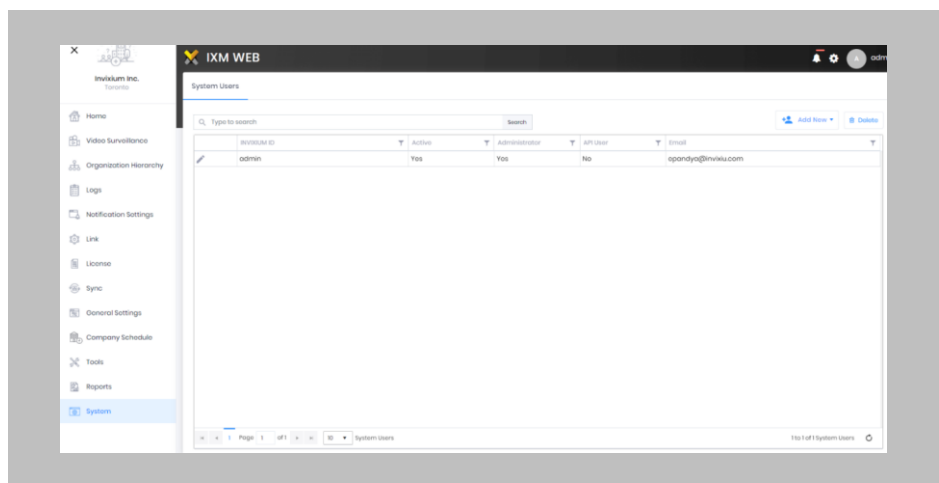
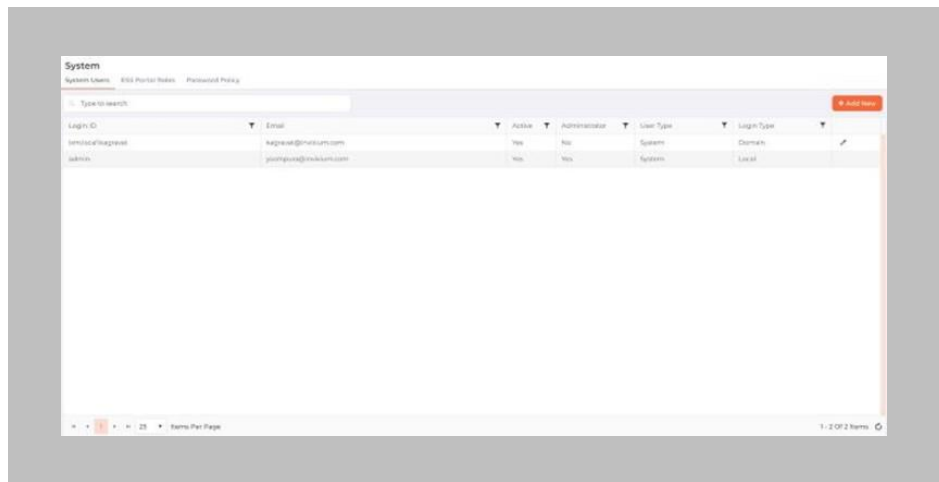
### Creating API System Users for Biometric Enrollment

#### Procedure

#### STEP 1

Log into IXM WEB.

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



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Figure 31: IXM WEB - Create API User



**STEP 2**

**Click Add New API User.**

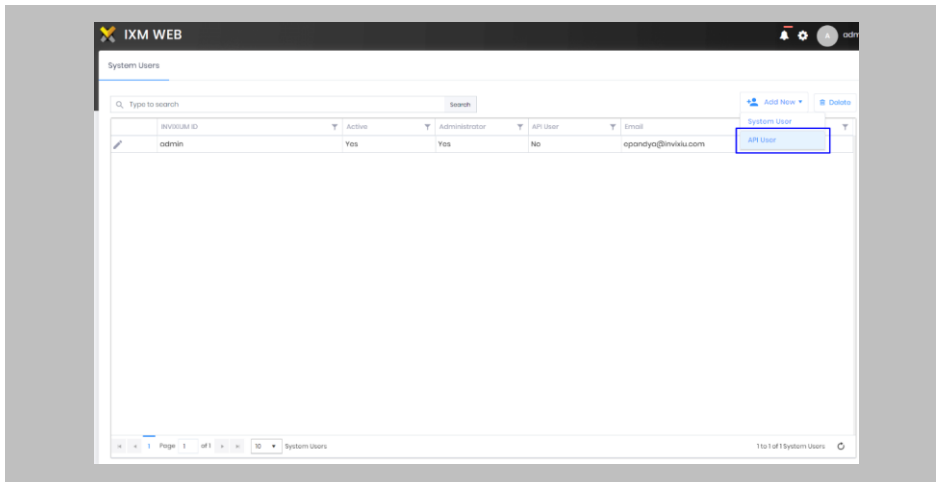
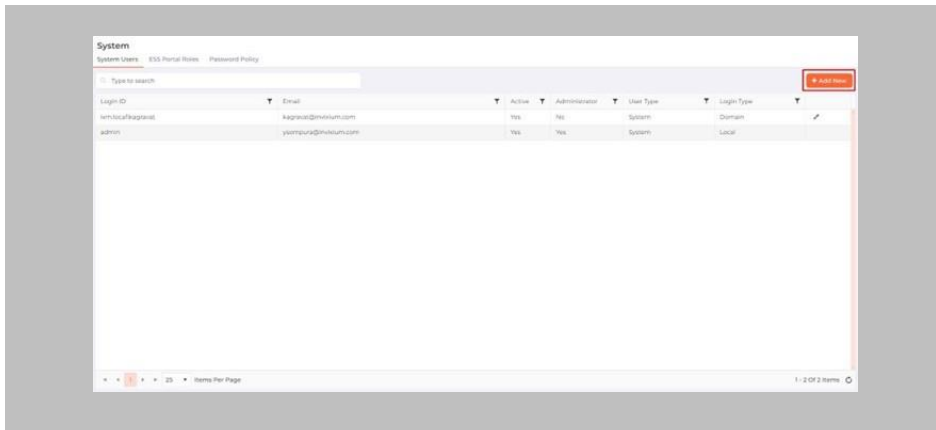


Figure 32: IXM WEB - **Create API User**



## STEP 2

Click **Add New**.



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Figure 34: IXM WEB Add New API User

Creating an API user requires the following details:

- Invidia ID (User Type as API ID)
- Login ID
- Password
- Confirm Password
- Email address
- Status
- Permission for modules

## STEP 3

User rights of enrollment Enter the Invidia ID, and access rule  
Password for the

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**STEP 3**

Select **User Type as API** from dropdown list user.

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Profile > User Rights

User Type  
API

Login ID  
IXMAPI

Password  
.....

Confirm Password  
.....

Email  
hvdavia@ixm.local

Status

> Next

Figure 35: IXM WEB – Add New API User

**STEP 4**

Add an email address.

Apply for permission as "All" in the **Enrollment & Employee Access Rule** module.

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Module	None	View	Edit	All
Enrollment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Employee Access Rule	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

< Previous Save

Figure 36: Enrollment and Employee Access Rights

System Users

Enrollment  
Employee Access Rule

None View Edit All  
None View Edit All

INVIXIUM ID  
Enroll

Password  
.....

Medium  
Confirm Password  
.....

Email

Status

Save Cancel

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GG



Figure 34: IXM WEB

New API User

STEP 5

Click **Save**.

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System User saved X

Figure 37: IXM WEB – Save System User



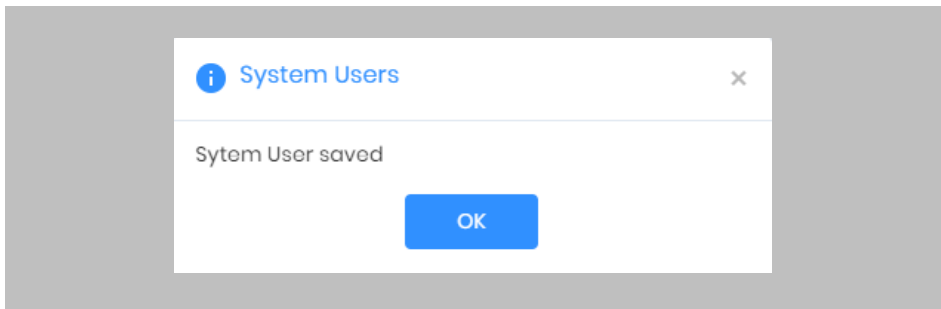


Figure 33: IXM WEB - Save API User



### 13.11. Configure Readers in OnGuard

The following settings are needed in System Administration for using the 'Map Access Level to User Group' feature.

Procedure

#### STEP 1

Open 'System Administration' → Click **Access Control** → **Access Panels**.

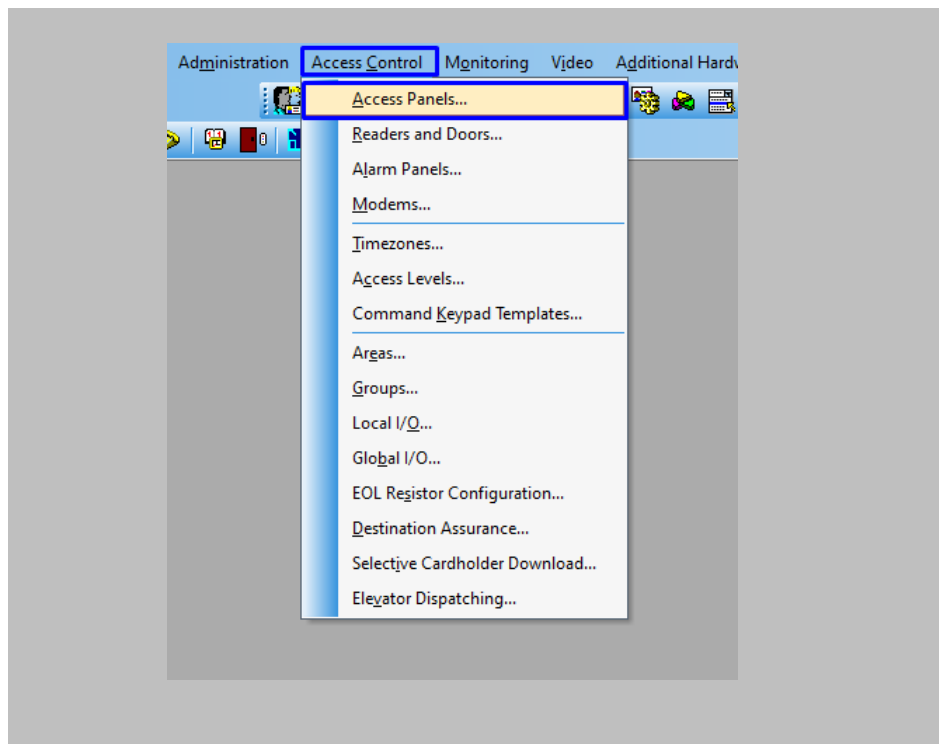


Figure 34: OnGuard - Access Panel

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## STEP 2

**Add** a new panel as per your requirement from the following screen.

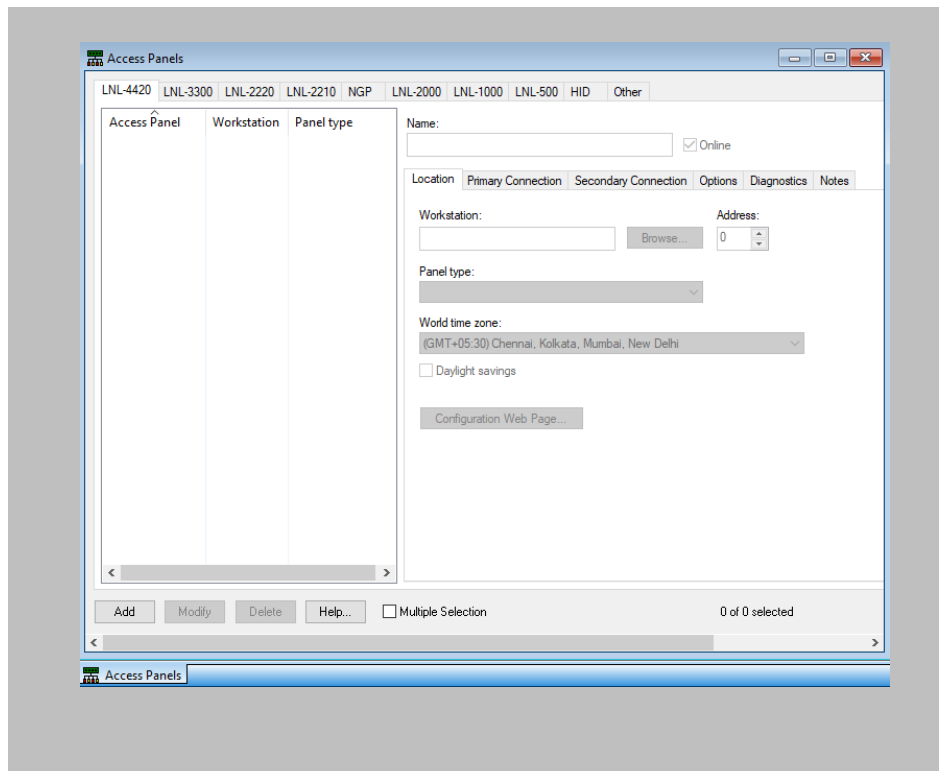


Figure 35: OnGuard - Add Access Panel

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### STEP 3

Click **Access Control** → **Readers and Doors**.

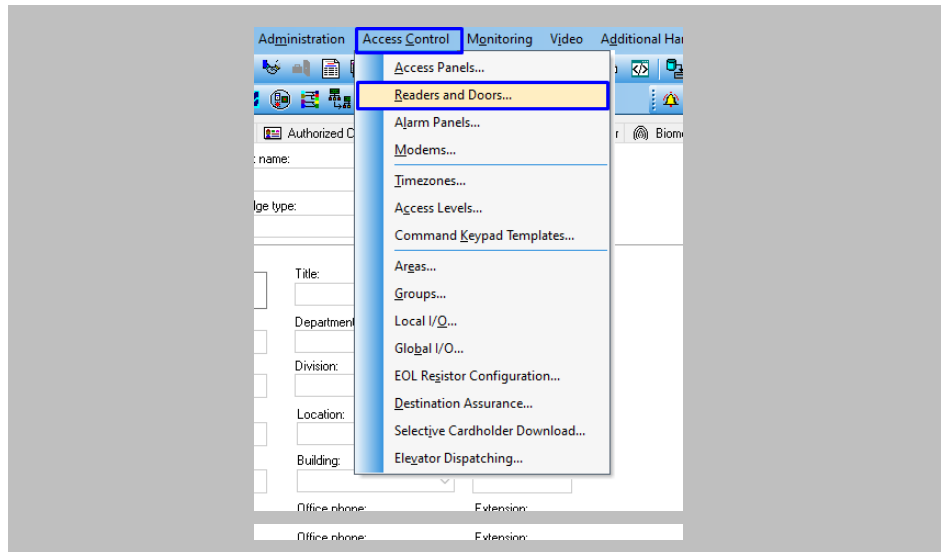


Figure 36: OnGuard - Readers and Doors

### STEP 4

Click on the **Add** button.

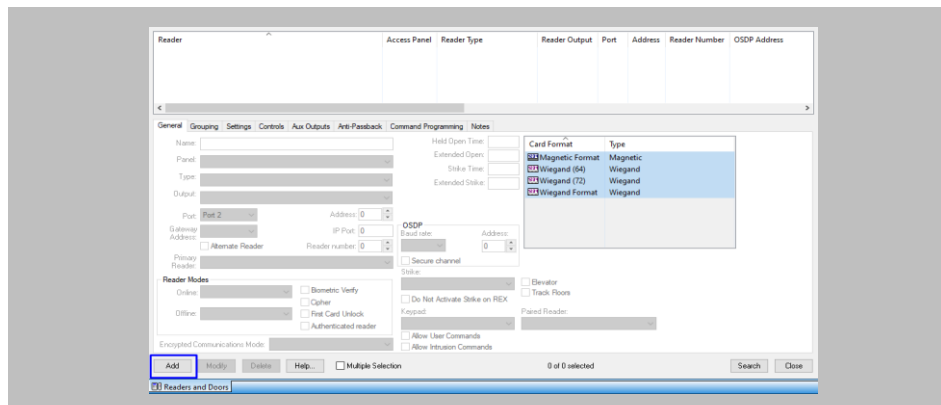




Figure 37: OnGuard - Add New Reader

### STEP 5

Enter the following details:

**Name:** The name of the **reader** should be the same as the name of the **InVixium device** present in IXM WEB, which will automatically add the InVixium device to the device group synced from OnGuard when the 'Map Access Level To User Group' setting is enabled.

**Panel:** Select any of the existing OnGuard panels from the **Panel** dropdown.

Enter other mandatory details and Click **OK**.

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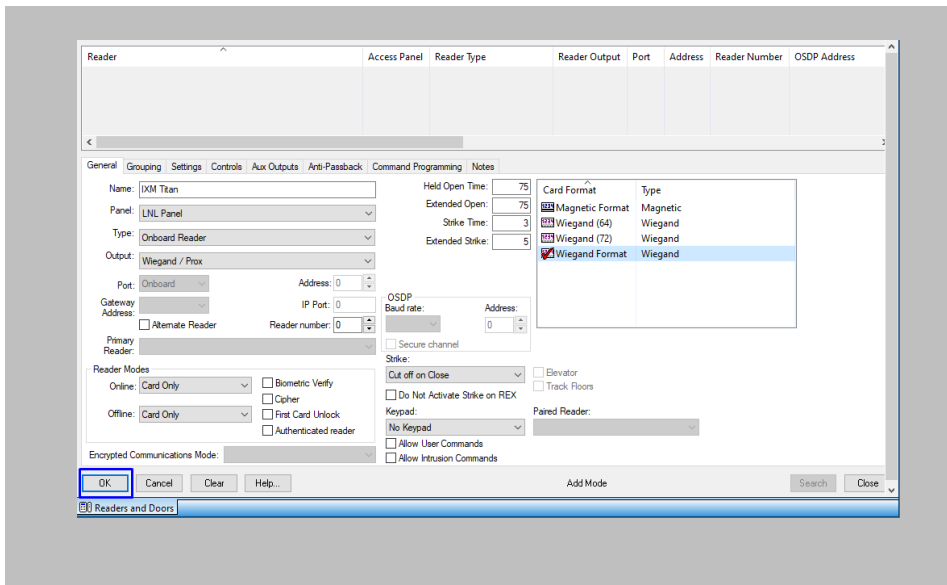


Figure 38: OnGuard - Reader Configuration

 Note: Facility Code of the Card Format should be zero during Card Format configuration.

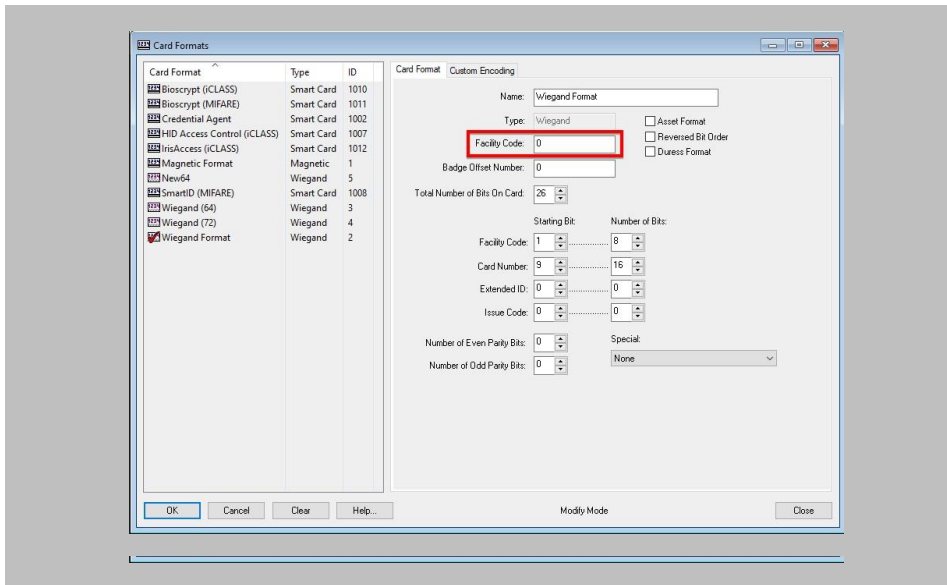




Figure 39: OnGuard – Facility Code

STEP 6

Click [Access Control](#) → [Access Levels](#).

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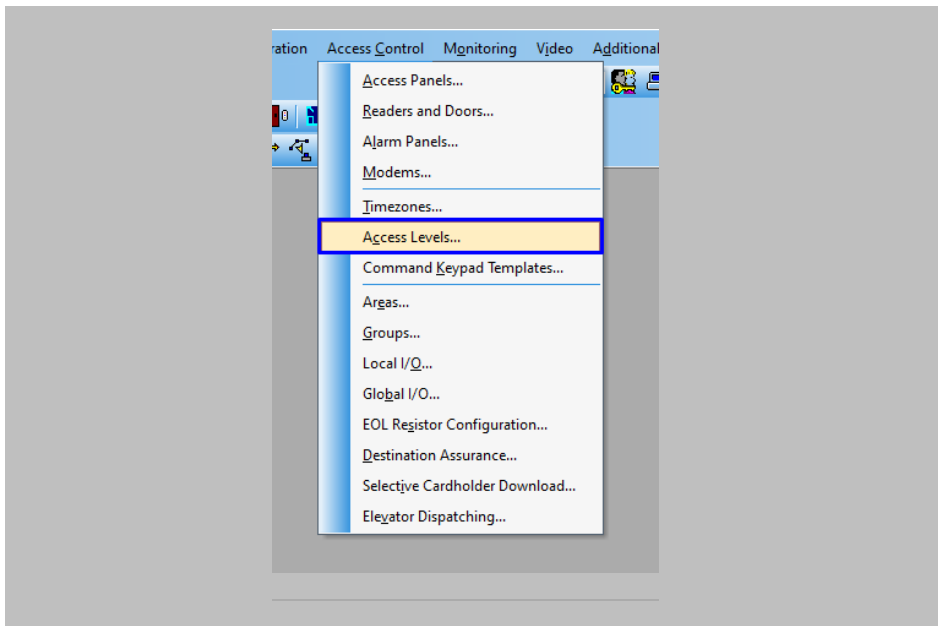


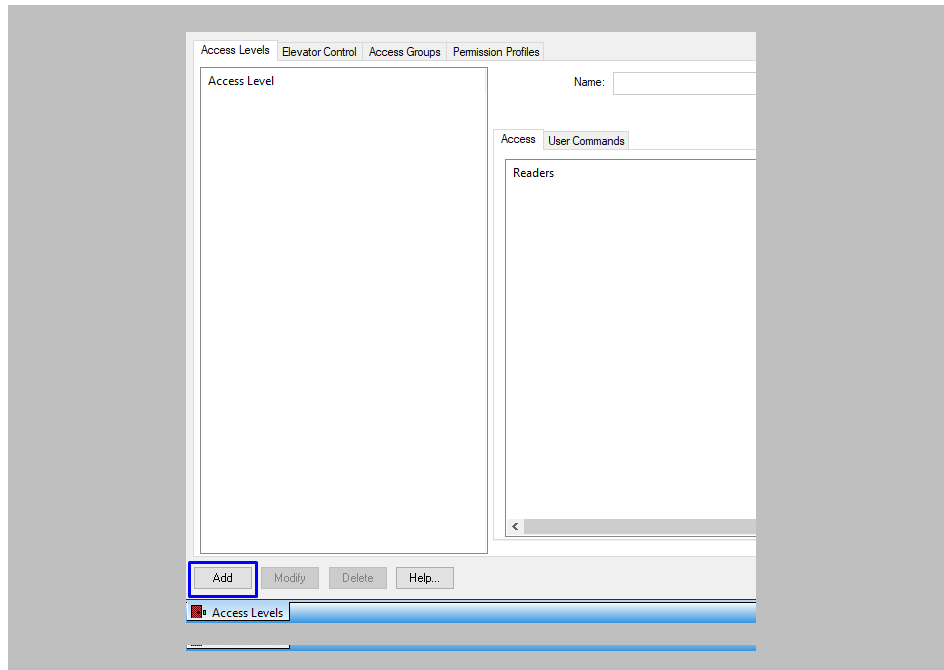
Figure 40: OnGuard - Access Level





### STEP 7

Click on the **Add** button.



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Figure 41: OnGuard - Add New Access Level



### STEP 8

Define the Name of Access Level in the 'Name' field → Select 'Reader' and 'Timezone' → Add to Access Level.

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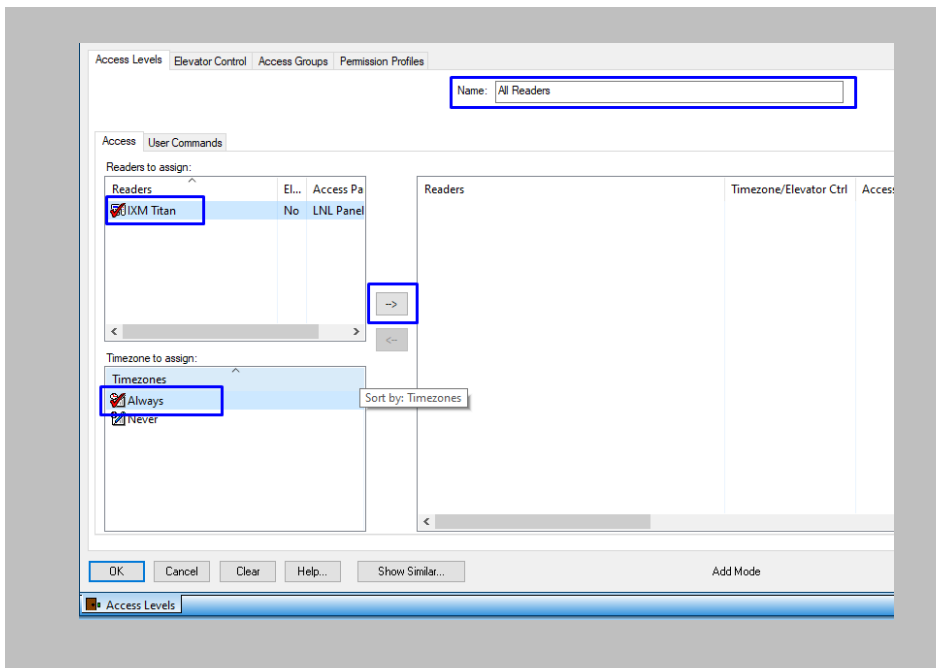


Figure 42: OnGuard - Add Reader to Access Level



STEP 9

Click **OK**.

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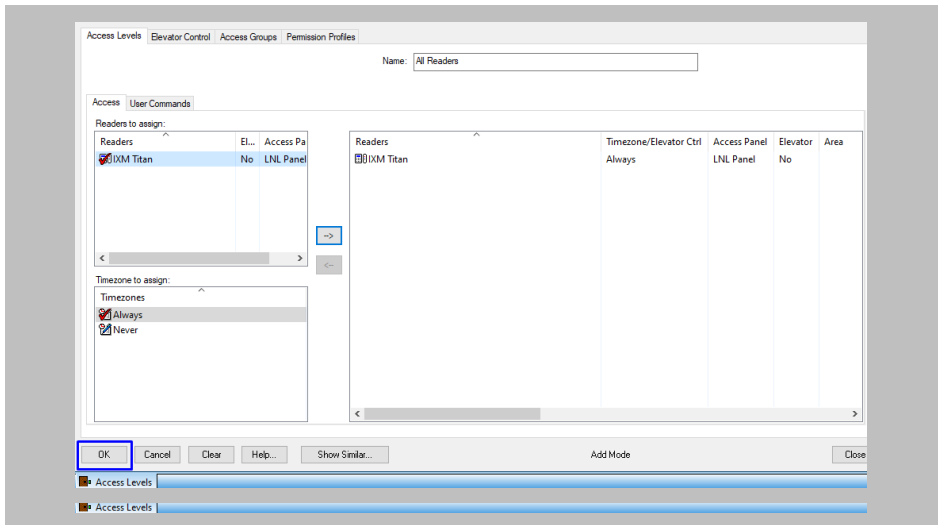


Figure 43: OnGuard - Access Level Configuration



### RESULT

An Access Level will be created and the reader will be assigned to the Access Level.

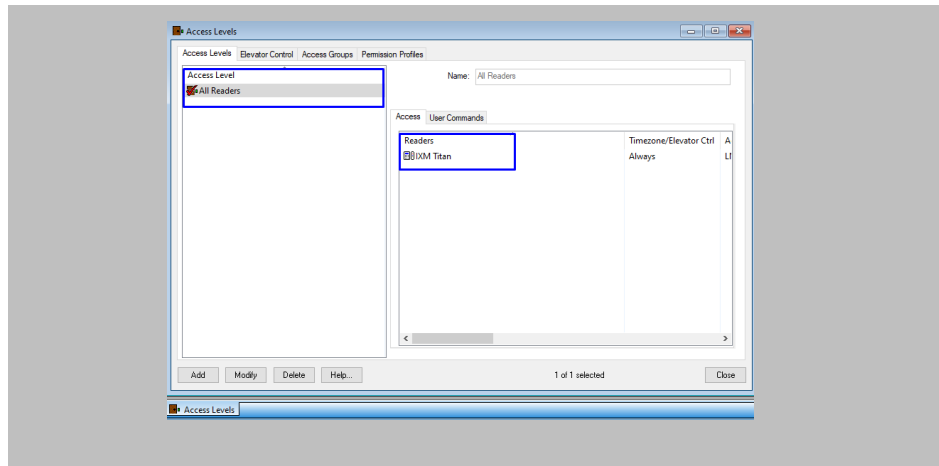


Figure 44: OnGuard - New Access Level

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## 45-12. Add and Configure Invixium Readers

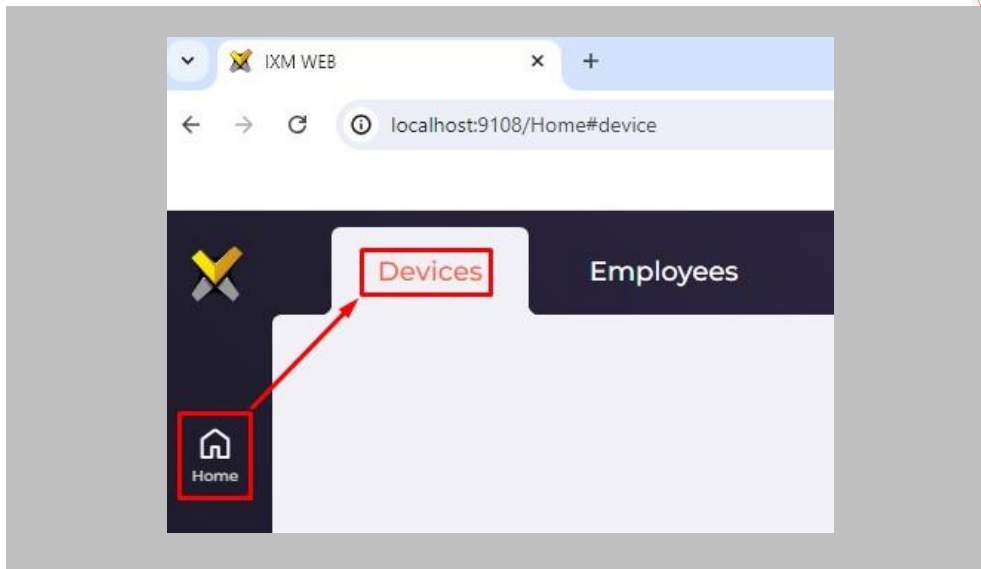
### Adding Invixium Readers in the IXM WEB application

Note: Only Invixium devices with the 'Lenel OnGuard' category can be registered in IXM WEB.

Procedure

#### STEP 1

Click From Home, click the Devices tab.



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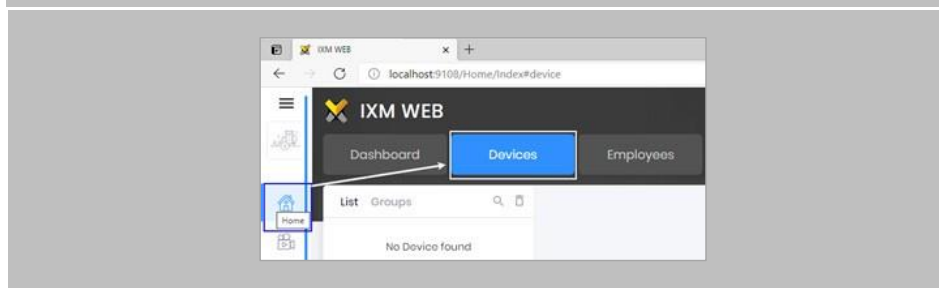


Figure 45: IXM WEB - Devices Tab



**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.

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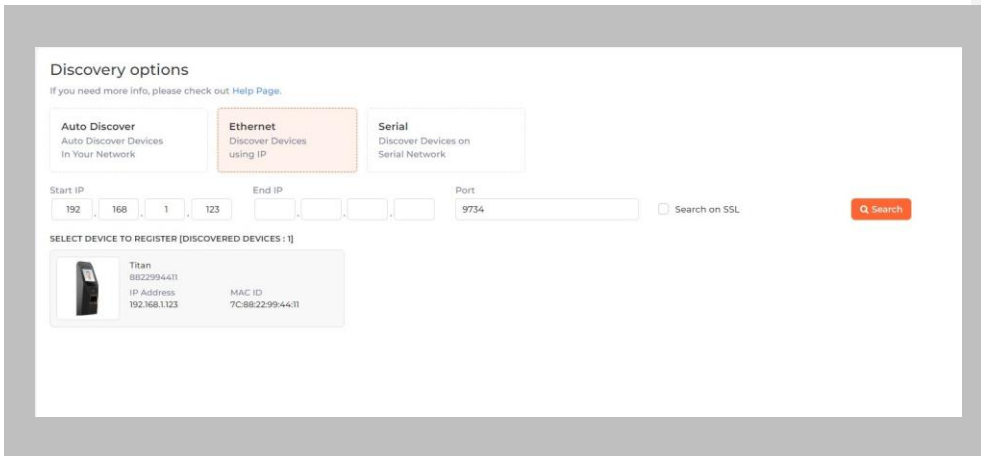
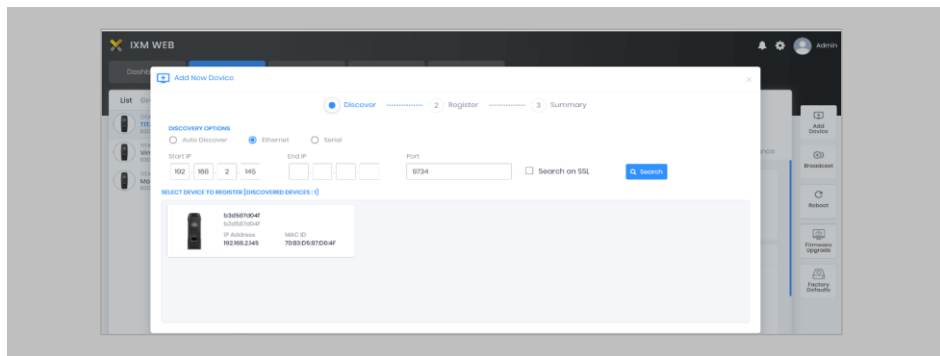


Figure 50: IXM WEB – Search Device Using IP Address





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Figure 46: IXM WEB - Search Device using IP Address





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### STEP 3

Once the device is found, click on it. Enter the following details:

- **Device Name:** The name of the **device** in IXM WEB should be exactly the same as the name of the 'Reader' defined in '**System Administration**'. This will automatically add the device to the device group in IXM WEB based on Access Level mapping in '**System Administration**'.
- **Device Group:** Create a '**Default**' device group and select it.
- **Device Mode:** Select device mode as 'Entry', 'Exit', or 'Both' (Based on requirement).

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**STEP 4**

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

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Figure 47: IXM WEB - Register Device Registration Complete

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### STEP 4

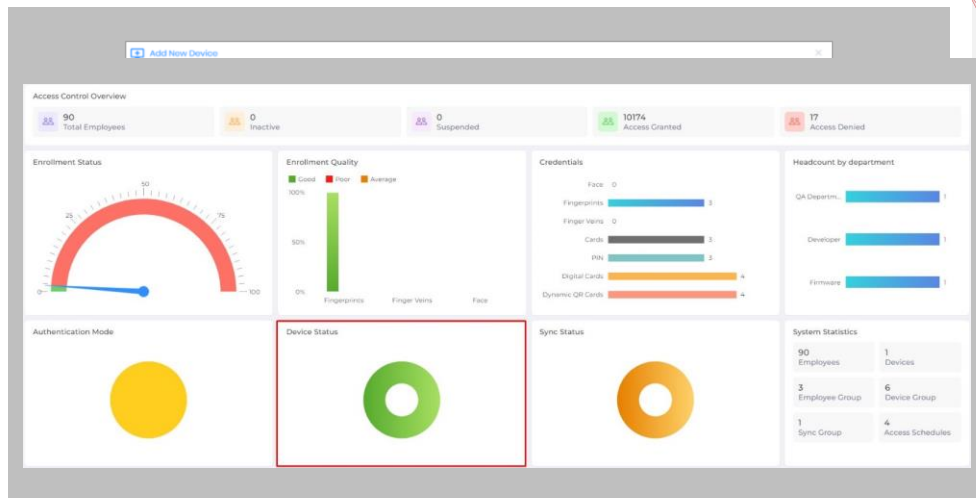
Click Register.

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STEP 5

Once the device has successfully been registered, click Done.



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Figure 48: IXM WEB - Device Registration Complete

Go to [Dashboard](#), and confirm that the [Device Status](#) chart indicates that the reader is online (i.e., hovering will tell you how many devices are online).

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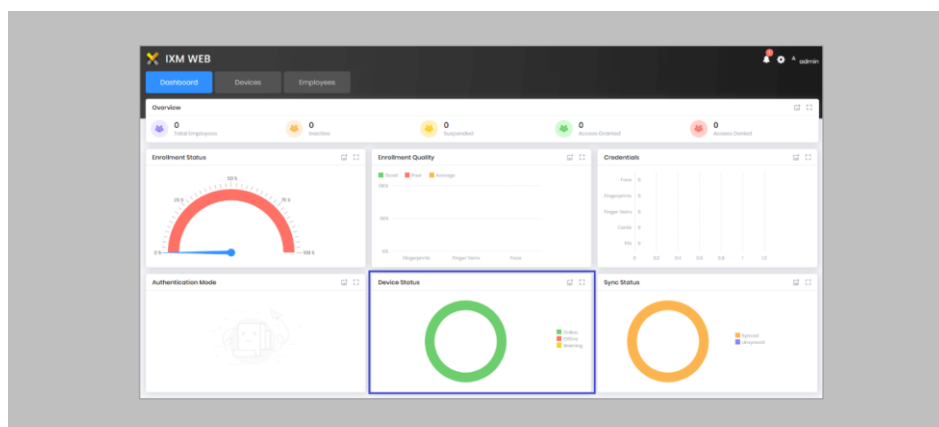
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Figure 49: IXM WEB - Dashboard, Device Status





## 46-13. Adding Invixium Device to a Device Group

Note: Turn OFF the 'Map Access Level To User Group' setting from the Link Configuration page to use this feature.

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-Groups**.

Add the device by clicking vertical ellipses button of from the Right Side panel to the 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**.

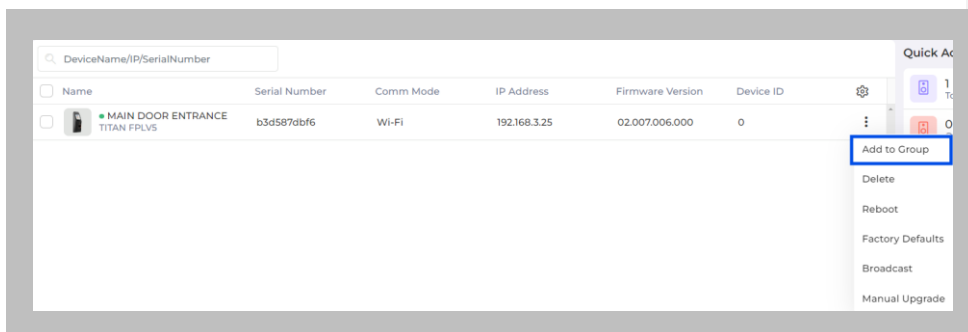
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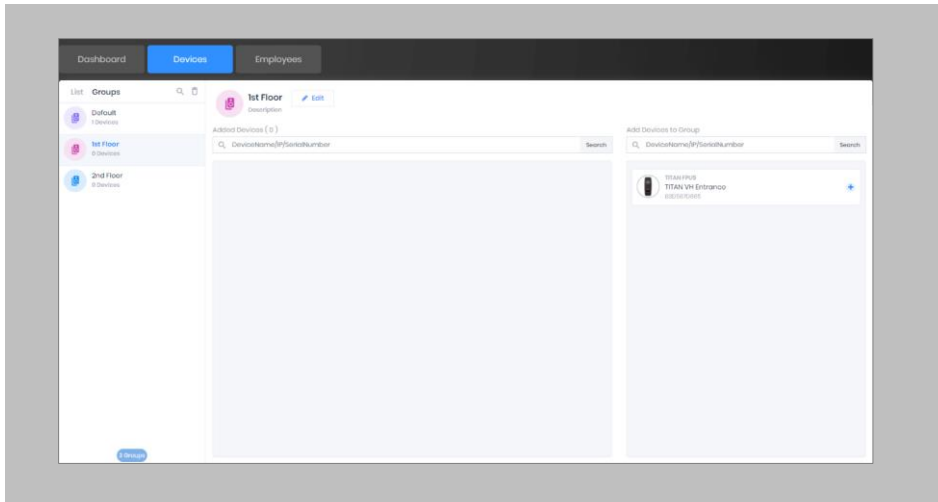


Figure 50: IXM WEB - Assign Device Group

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## Assign Wiegand to Invixium Readers

Note: Face and finger will always give a Wiegand output based on the initial card that was synced from OnGuardLeneIS2 to Invixium.

The Standard 26 Bit Wiegand will be used to define which output format will be sent to OnGuard.

### STEP 1

From Home → click the Devices tab. Select any device.

### STEP 2

Navigate to the Access Control tab.

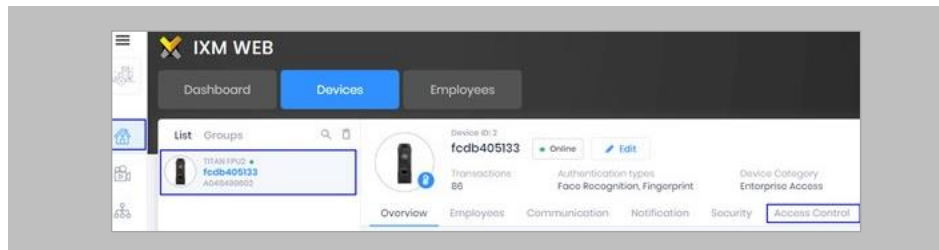
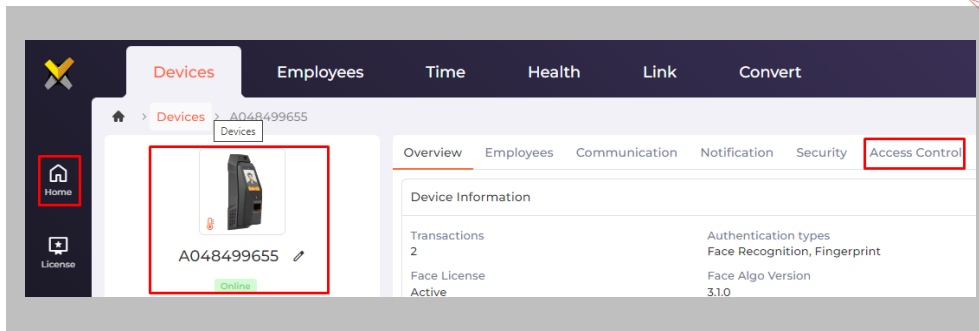


Figure 51: IXM WEB — Navigate to Access Control Tab

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### 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.

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The screenshot shows the 'Wiegand Output' configuration page. The 'Wiegand' switch is currently disabled (greyed out). The page lists various events and their corresponding configurations:

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

PULSE (MSEC)  
Width: 40, Interval: 2000  
Buttons: APPLY, RESET

The screenshot shows the 'Wiegand Output' configuration page with the 'Wiegand' switch now enabled (blue). The configurations for other events remain the same as in the previous screenshot:

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

PULSE (MSEC)  
Width: 40, Interval: 2000  
Buttons: APPLY, RESET



Figure 52: 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 OnGuard, 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 Invixium Device.

Default Card: It will generate Wiegand output data for the default card marked in IXM WEB.

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

#### STEP 4

Set the **items**:

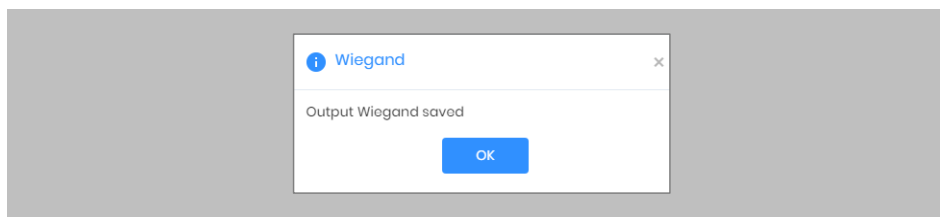
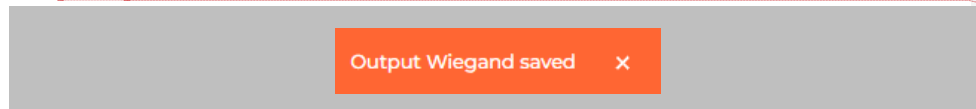
<b>Wiegand</b>	Actual Card
<b>Identification</b>	26 - bit
<b>Verification</b>	26 - bit

#### STEP 5

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

#### STEP 6

Click **Apply**.



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Figure 53: IXM WEB - Save Output Wiegand

## RESULT

The Wiegand Output settings of the device selected 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](#) 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 OnGuard Panel.

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## Configuring Panel Feedback with Lenel

### Procedure

#### STEP 1

Connect Wiegand Data D0 of the LenelS2 Panel with **WDATA\_OUT0** of the IXM device, Wiegand Data D1 of the LenelS2 Panel with **WDATA\_OUT1**, and Wiegand Ground of the LenelS2 Panel with **WGND** of the IXM Device.

#### STEP 2

Connect the **LED** of the LenelS2 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**.

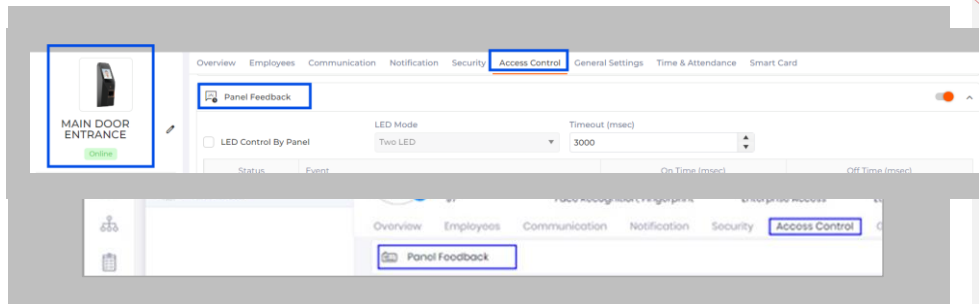


Figure 54: IXM WEB - Panel Feedback

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#### 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**.

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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

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



Figure 55: IXM WEB - Configuring Panel Feedback in IXM WEB

STEP 5

Click **Apply**.

Panel Feedback configuration saved

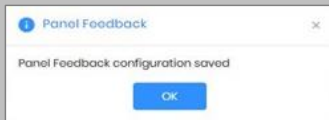


Figure 56: IXM WEB - Save Panel Feedback

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## Configuring Thermal Settings

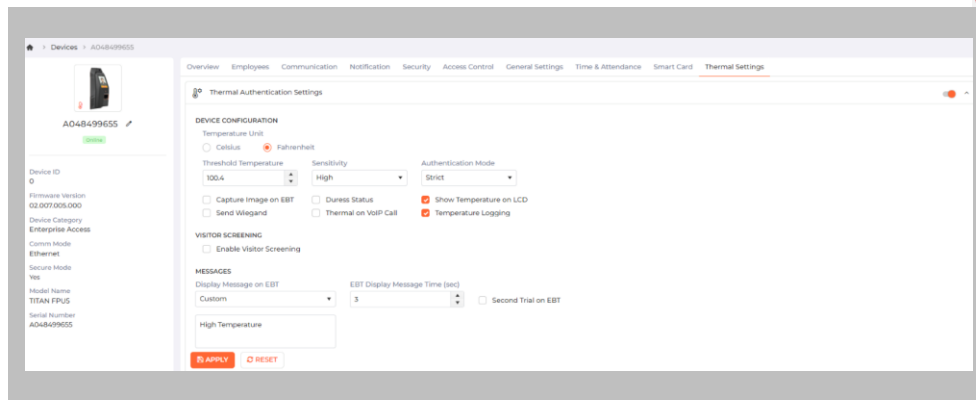


Note: Confirm if your device is capable of temperature screening first.

### Procedure

#### STEP 1

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



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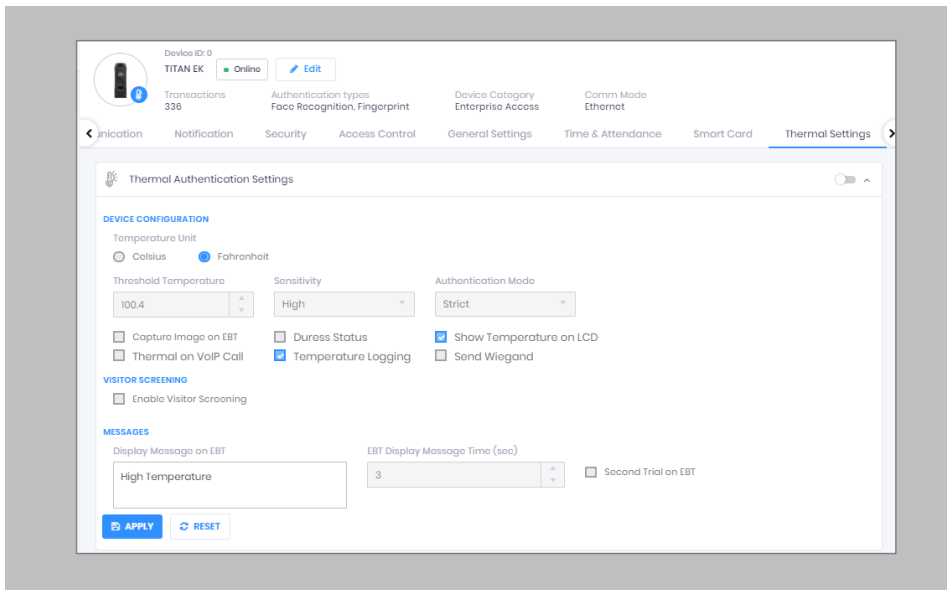


Figure 57: IXM WEB - Thermal Settings

## 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~~choice will be Fahrenheit.
- **Threshold Temperature:** Users can set a threshold temperature. Elevated Body Temperature (EBT) workflows will trigger when any ~~user whose temperature~~user's 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.

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- **Authentication Mode:** ~~The user~~Users will have two options for the ~~Modem~~mode of authentication. ~~Soft /Strict, this or~~Strict. This mode of authentication is used to control the access of the user if ~~a~~ fever is detected. The default mode of authentication is Strict.
  - **Soft:** Access will be granted to the ~~Endend~~-user even after ~~thea~~ 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~~Enabling this setting, ~~gives~~ users ~~will get~~ a notification to retry after EBT detection. If this setting is enabled, ~~the~~ 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.

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- **Enable Visitor Screening:** Enable this setting to start screening temperatures for visitors. By default, this field ~~remains~~stays disabled.
- **Visitor Screening Message:** Users can set a message that will be displayed when a visitor is showing their face. ~~Maximum~~A maximum of 50 characters is allowed.
- **Visitor Screening Message on EBT:** Users can set a message that will be displayed when ~~the~~a 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~~stays disabled.
- **Temperature Logging:** This setting keeps ~~logging~~logs of detected temperature in the Transaction Log. By default, this field ~~remains~~stays enabled. Users can disable this feature using IXM WEB only. Enable/Disable this setting is not available ~~in~~on the LCD.

### STEP 3

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

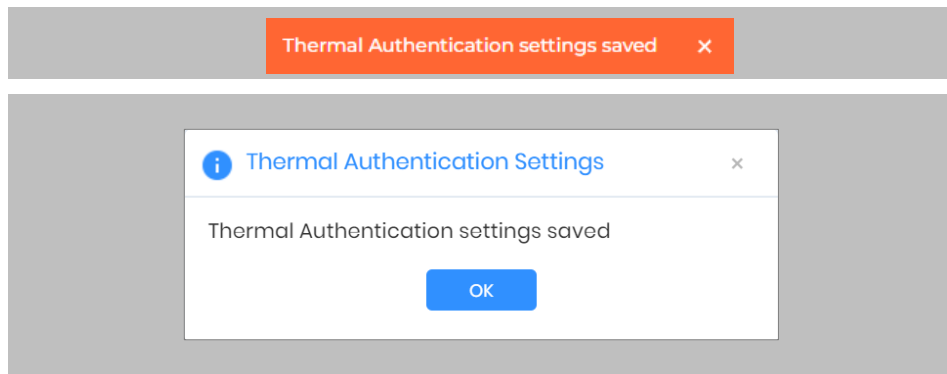


Figure 58: IXM WEB - Save Thermal Settings

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## Thermal Calibration

### Procedure

#### STEP 1

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

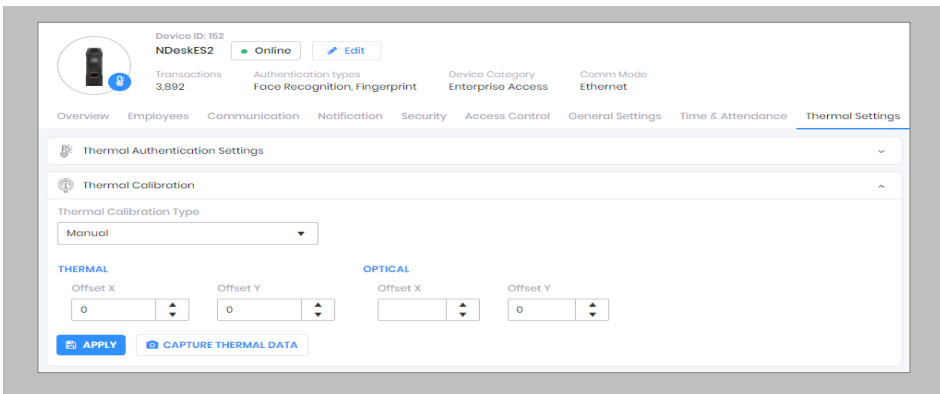
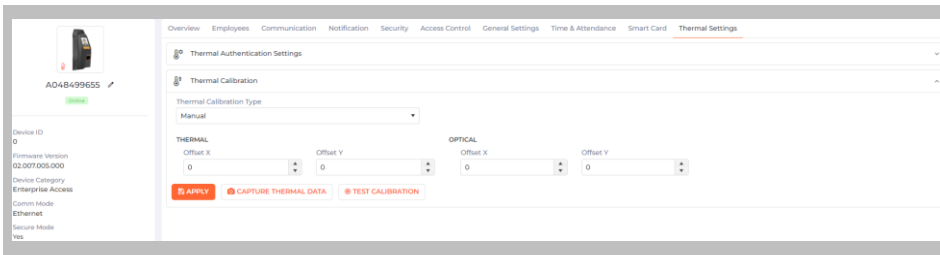


Figure 59: IXM WEB - Thermal Calibration Settings

#### STEP 2

The settings along with their functions are:

- **Thermal Calibration Type:**

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- 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**.

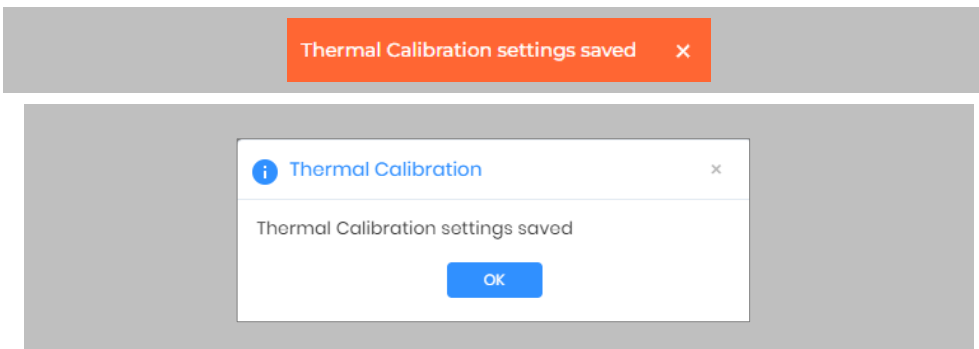


Figure 60: IXM WEB - Save Thermal Calibration Settings

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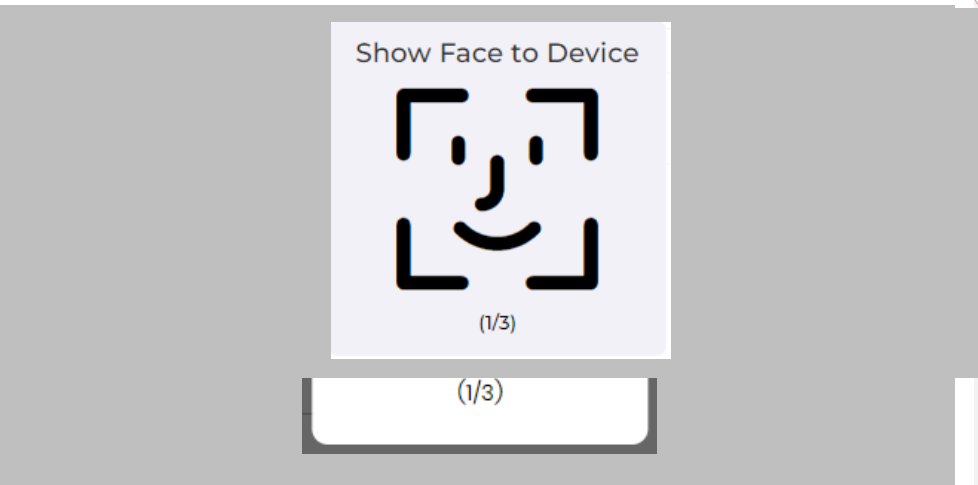
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To provide ~~the~~ Thermal Data to the Invixium Technical Services team using IXM WEB, the user needs to click [Capture Thermal Data](#). It will open the popup window and ask the user to show their face 3 times.



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Figure 61: IXM WEB - Capture Thermal Data

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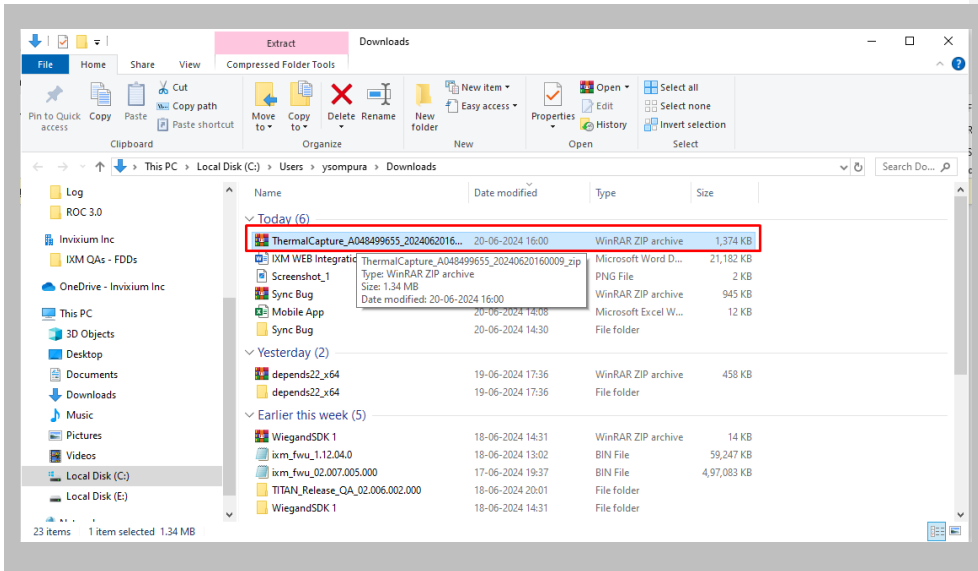


### STEP 4

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

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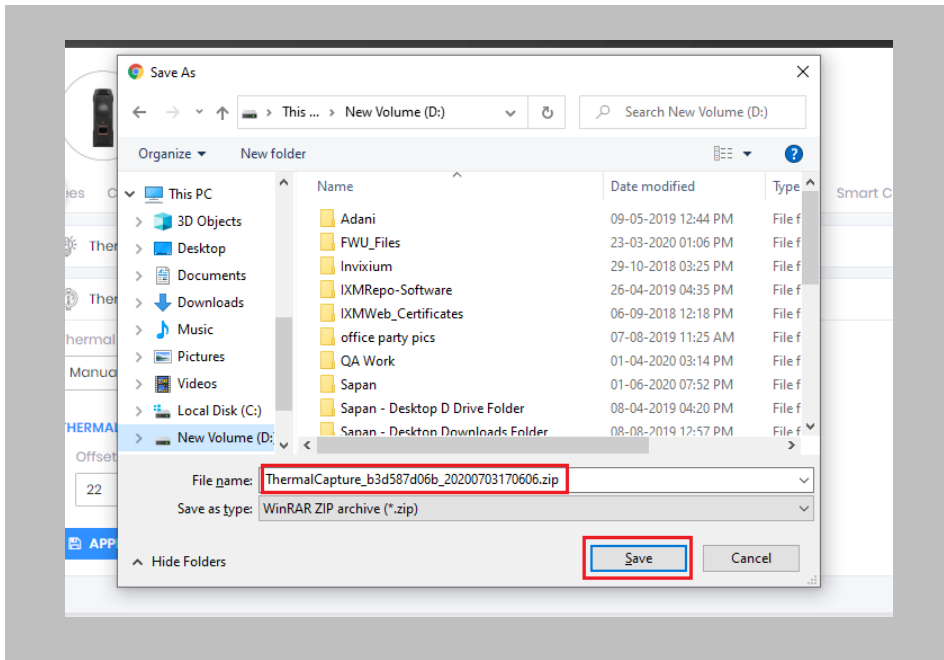


Figure 62: IXM WEB - Save Captured Thermal Data

### STEP 5

Click **Save** to store the zip file, then send this file to [support@invixium.com](mailto: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 ~~TTANTITAN's~~ camera.



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

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## Test Calibration Options

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

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Figure 63: IXM WEB - Test Thermal Calibration



Note: Square box position should be in the center and cover the tear duct area (Eye Inner Canthus).

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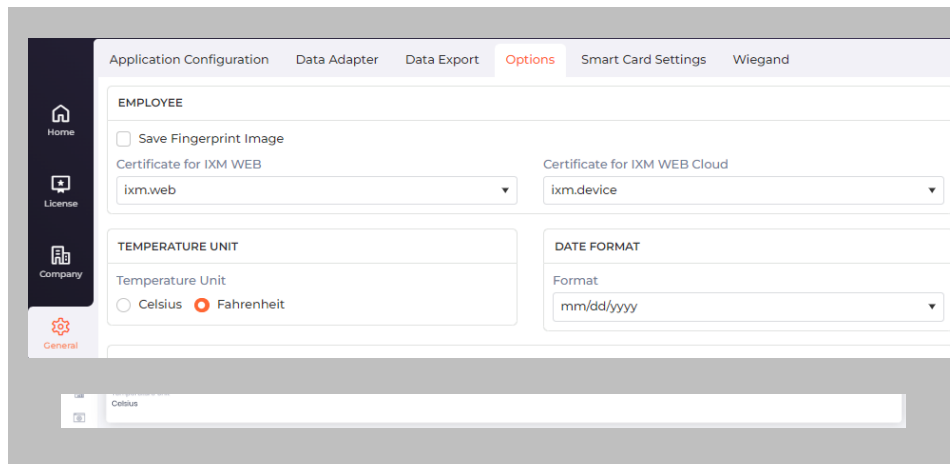
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## Change Temperature Unit Settings

### STEP 1

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



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Figure 64: IXM WEB - Option to ~~Changechange~~Change Temperature ~~Unitunit~~Unit.





## STEP 2

Click **Save**.



Note: The Temperature Test failure event in OnGuard Alarm Monitoring will show the Temperature Value as per the Temperature Unit selection.

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Figure 65: IXM WEB - Save Temperature Unit Setting

Note: Temperature Test failure event in OnGuard Alarm Monitoring will show the Temperature Value as per the Temperature Unit selection.

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## Configuring Mask Authentication Settings

### STEP 1

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

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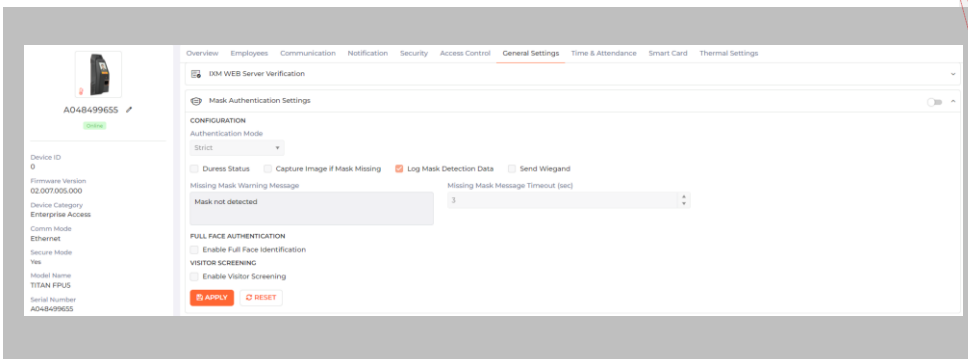
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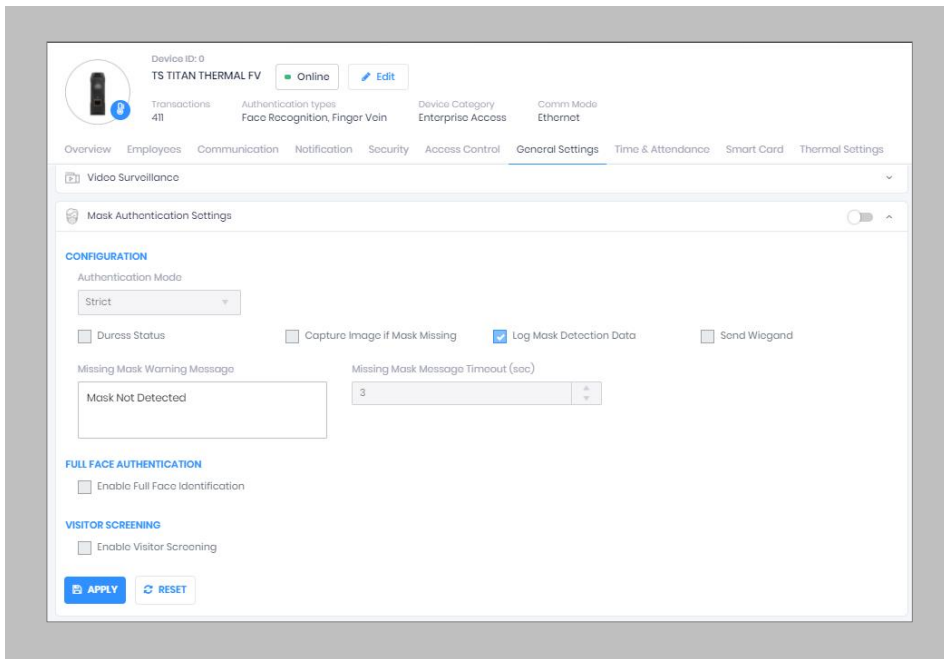


Figure 66: IXM WEB - Mask Authentication Settings



## 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**.

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- **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**.

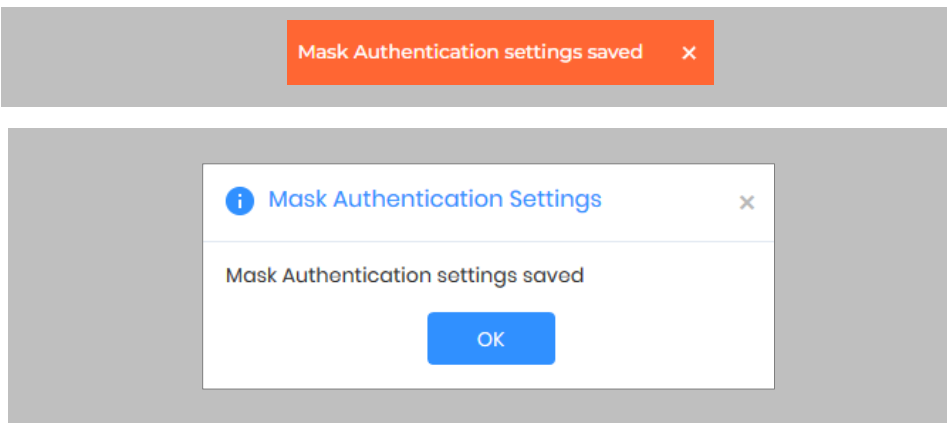


Figure 67: IXM WEB - Save Mask Settings

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## Pre-Configuration for Enrollment

### Procedure

#### STEP 1

From the [Left Navigation Pane](#) → [Link](#) → [click the red OnGuard \(Lenel-S2\)](#) icon → Click [Download Add-on](#)

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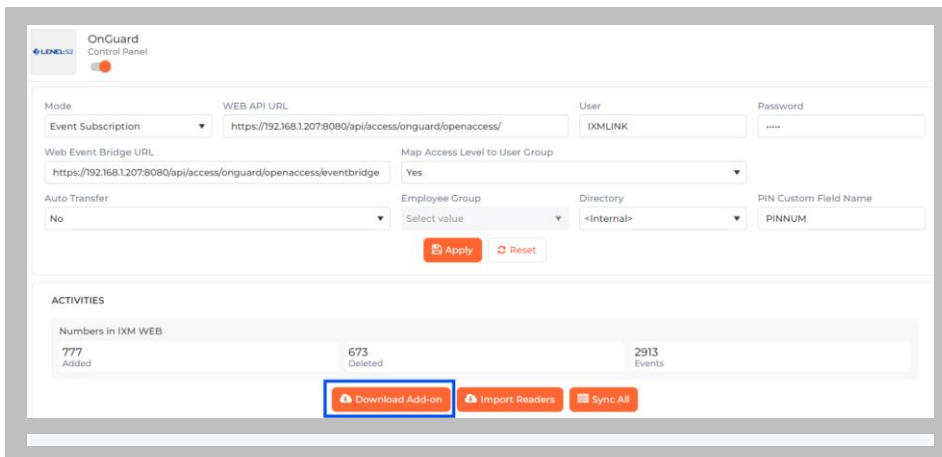


Figure 68: IXM WEB - Download Enrollment Add-On

**OnGuard Add-On.zip** file will be downloaded at the default download location (i.e., C:\Users\Downloads)

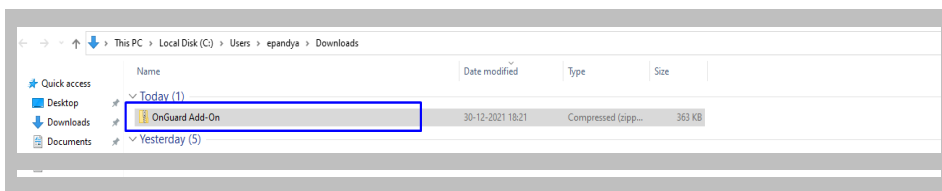


Figure 69: IXM WEB - Download Add-On Zip File



### STEP 2

Extract the **OnGuard Add-On**.

### STEP 3

Click on the extracted **OnGuard Add-On** folder → Copy the path of the **Enrollment.exe** file.

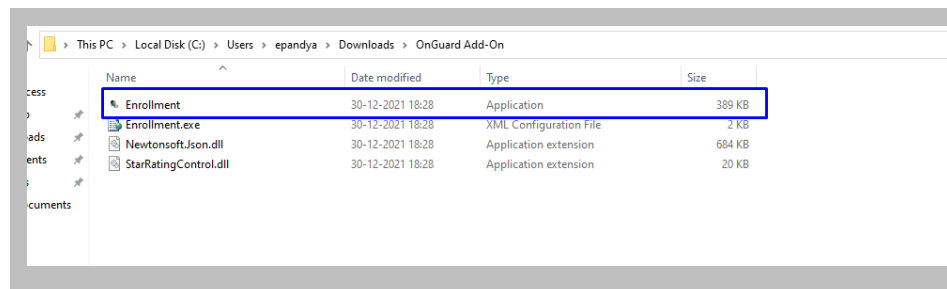


Figure 70: IXM WEB - OnGuard Add-On Enrollment.exe

### STEP 4

Open **System Administration** → Click **Administration** → **Workstations**.

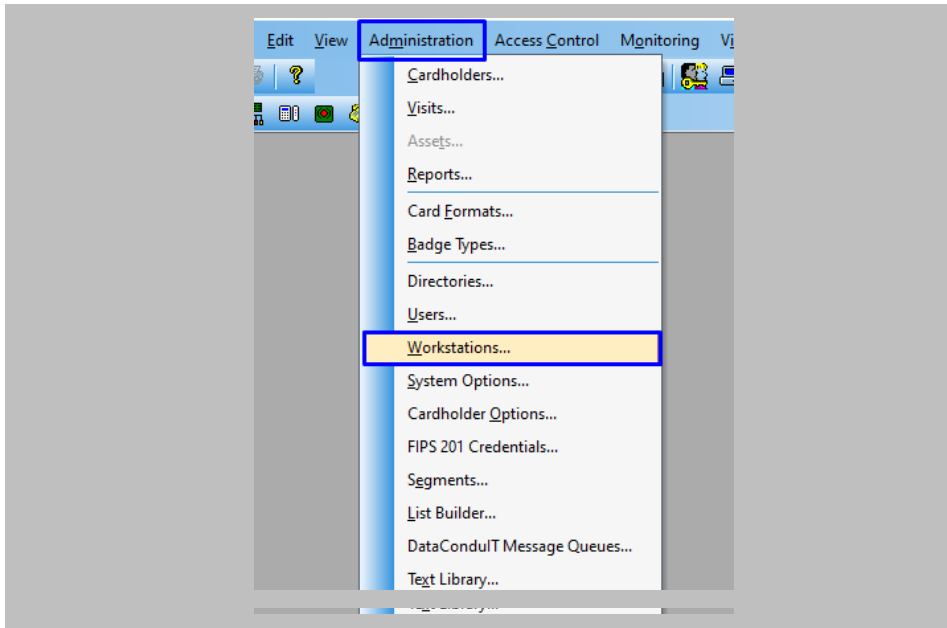


Figure 71: OnGuard - Workstation

STEP 5

Click **Modify** for the existing Workstation.

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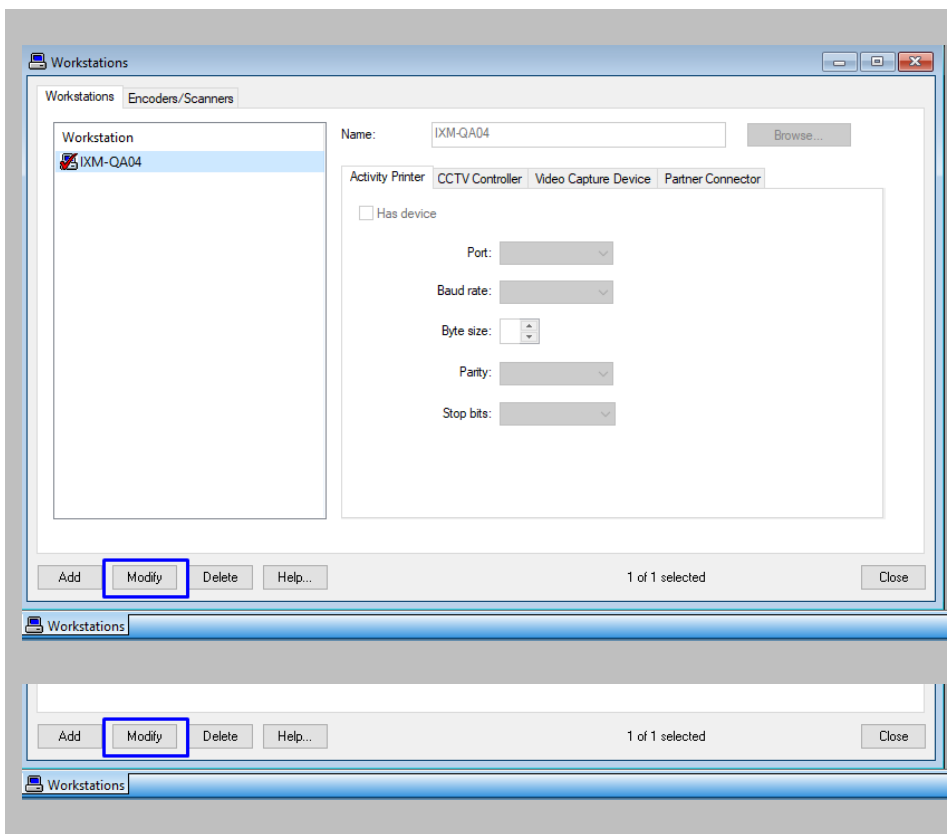




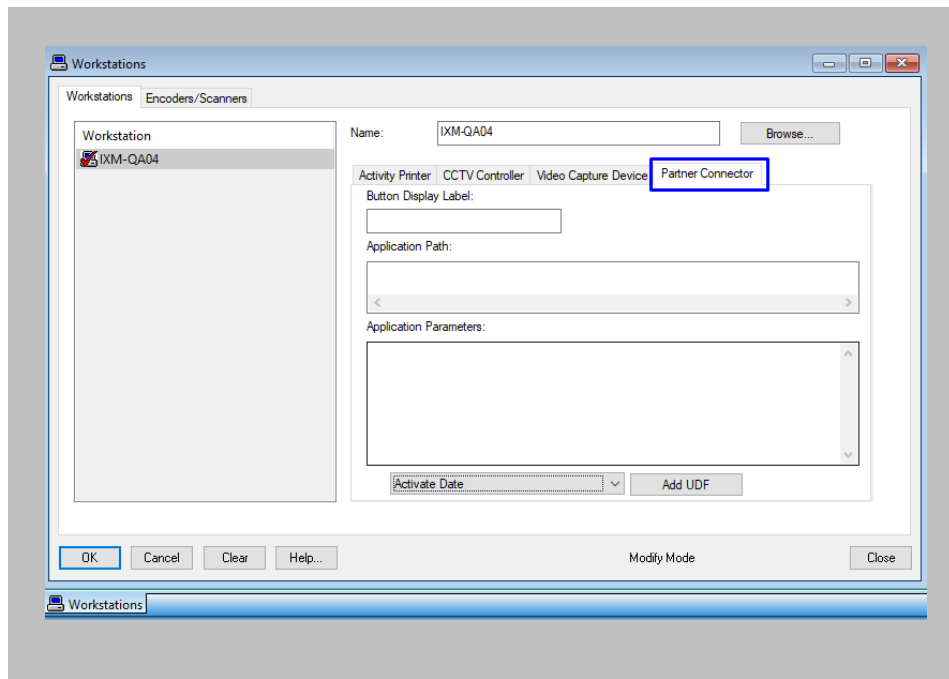
Figure 72: OnGuard - Modify Workstation





**STEP 6**

**Click Partner Connector.**



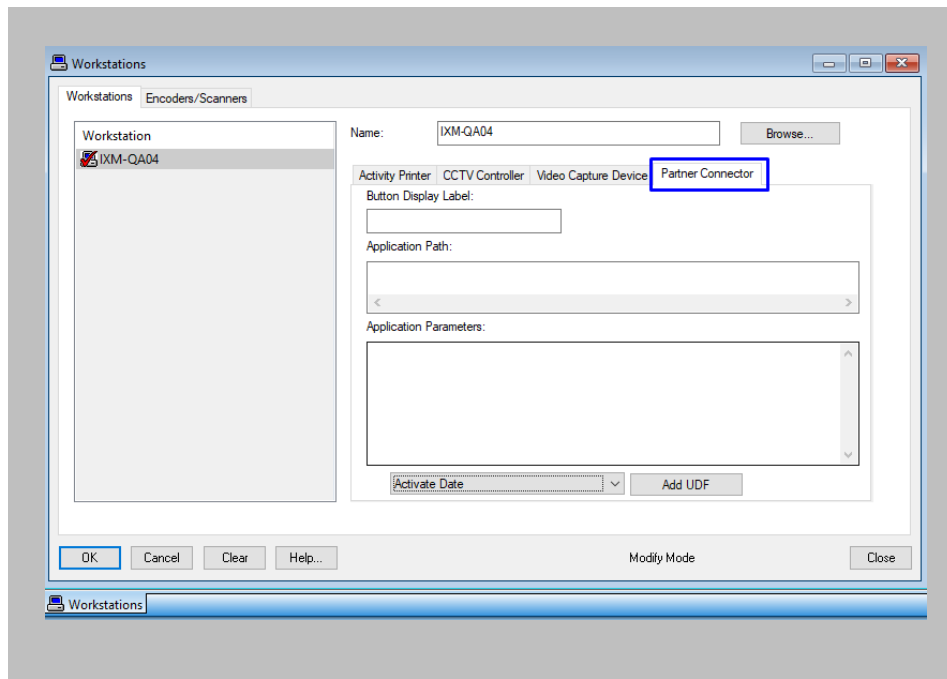
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**STEP 6**

Click **Partner Connector**.



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Figure 76: OnGuard - Partner Connector



### STEP 7

Enter the Following Details:

- **Button Display Label:** Define the **enrollment** addon button name.
- **Application Path:** Paste the file path of **Enrollment.exe**.
- **Application Parameters:** Click on the dropdown → Find 'EMP.ID' in the list and select → Click on **Add UDF** button.

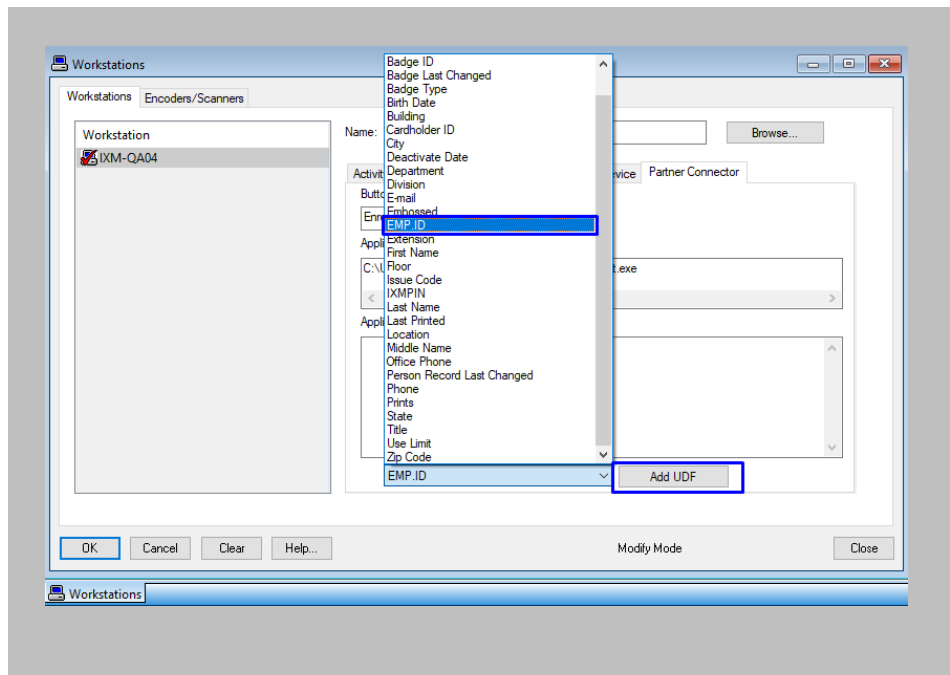


Figure 74: OnGuard - Add UDF



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STEP 8

Click OK.

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**STEP 8**

**Click OK.**

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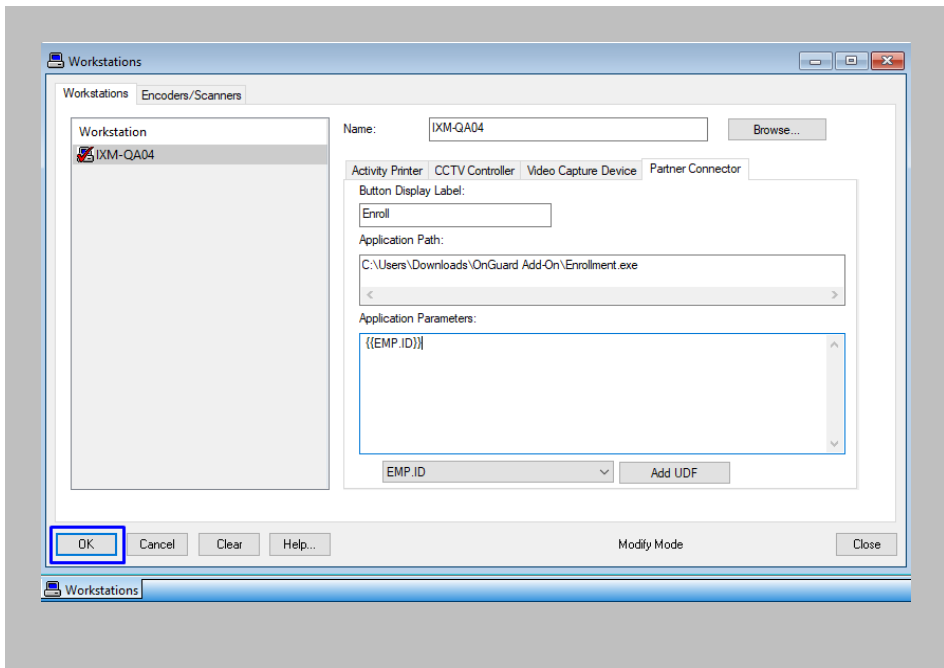


Figure 75: OnGuard - Add Partner Connector



## RESULT

Once the configuration is saved the 'Enroll' button will be displayed on the cardholder window.

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The screenshot shows the 'Cardholders' window in the OnGuard software. The window title is 'Cardholders' and it contains a form for entering cardholder information. The form fields are organized as follows:

- Personal Information:** Last name (Doe), First name (John), Middle name, Cardholder ID, and Badge type (Employee Badge).
- Address and Contact:** Address, City, State, Zip code, Phone, Birth date, E-mail, Office phone, and Extension.
- Work Information:** Title, Department, Division, Location, Building, and Floor.
- System Information:** Record last changed (12/31/2021 10:22:23 AM).

At the bottom of the window, there is a toolbar with buttons for Search, Add, Modify, Delete, Print, Encode, and Enroll. The 'Enroll' button is highlighted with a blue box.

Figure 76: OnGuard - Enroll Button



## 17.14. \_\_\_-Enrollment from LeneIS2 System Administration

When you launch the enrollment application for the first time, it will ask for your API user credentials to perform enrollment.

**Note:** In case of an upgrade of IXM WEB from any previous release to 3.0.35.0, pre-configuration for re-enrollment Add-on is required.

### Procedure

#### STEP 1

Add a new cardholder or select an existing cardholder and click on the 'Enroll' button.

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Figure 77: OnGuard - Click Enroll



## STEP 2

'Server Configuration' window will appear → Enter the following details:

- **IXM WEB API:** IXM WEB server URL.  
If the IP address of the IXM WEB server is 192.168.1.100, then specify the Server URL as the following:  
**http://192.168.1.100:9108/IXMAPI/1.0**
- **Username:** Username of IXM WEB API system user. Refer to [Creating API System User](#) for API user creation in IXM WEB.
- **Password:** Password of IXM WEB API system user.

Click **OK**.

Server Configuration

IXM Web API:

User Name:  ( Please set user name to connect IXM Web API )

Password:  ( Please set password to connect IXM Web API )

Language:

OK

Figure 78: OnGuard - Enrollment Add-on Configuration





### Biometric Enrollment from the OnGuard Enrollment Add-On

#### STEP 1

Click **'Open Capture'** → Select **Fingerprint** → Select **Invixium device** from Device dropdown (Device dropdown will display all fingerprint-supported Invixium devices present in IXM WEB).

Follow the [Invixium Enrollment guidelines](#) for proper enrollment of faces, fingerprints, and finger veins.

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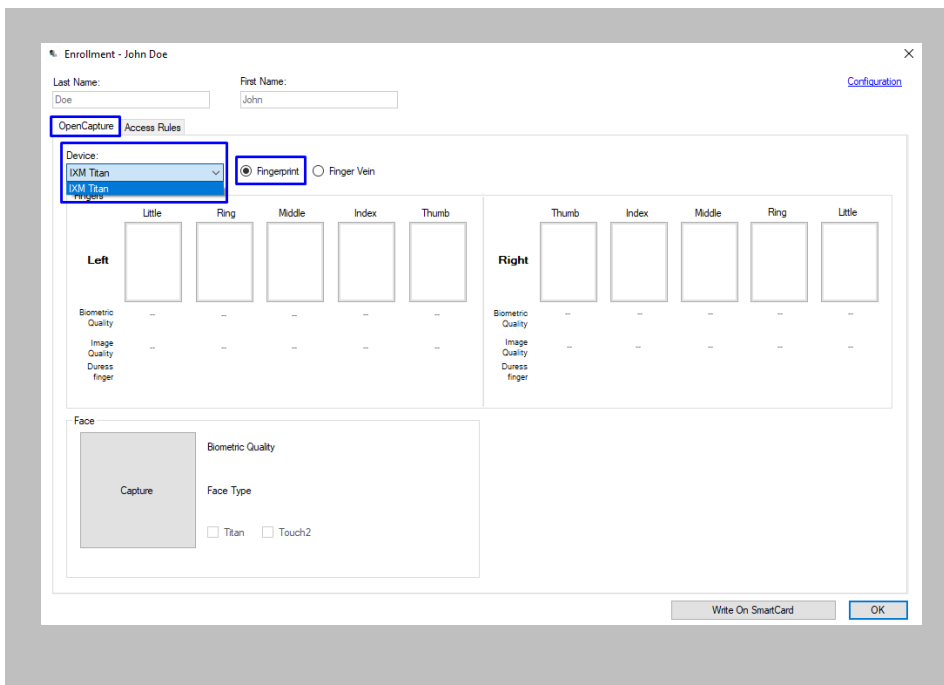


Figure 79: OnGuard – Fingerprint Device Selection



## STEP 2

Click on the rectangle box drawn under name of the finger for **Fingerprint** enrollment.

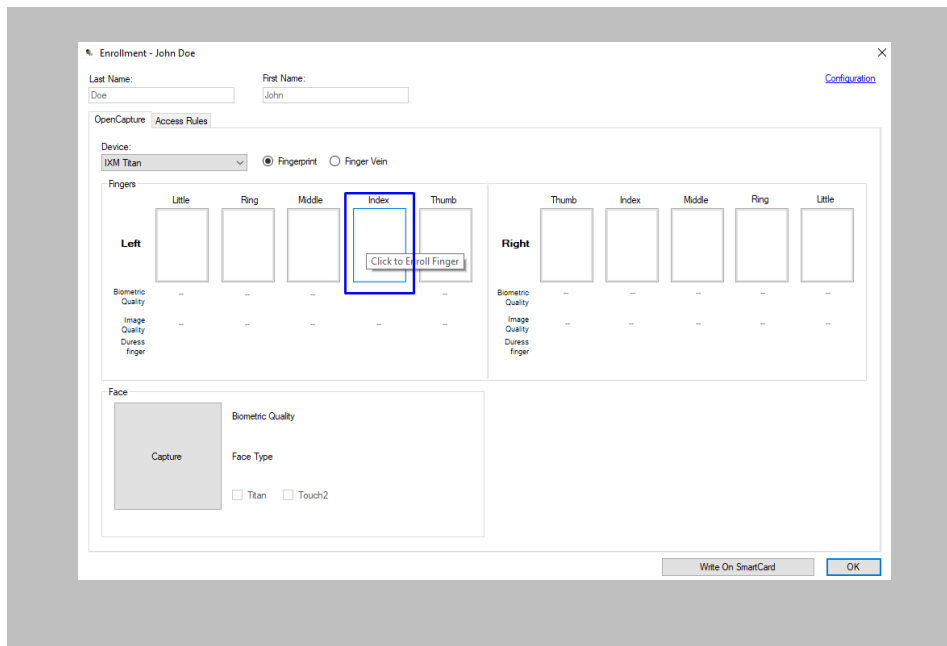


Figure 80: OnGuard - Fingerprint Enrollment

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### STEP 3

Click on 'Capture' for face enrollment.

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Figure 81: OnGuard - Face Enrollment



### STEP 4

Select **Finger Vein** → Select the **Invixium device** from Device Dropdown (Device dropdown will display all finger vein supported Invixium devices present in IXM WEB).

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Enrollment - John Doe

Last Name: Doe First Name: John [Configuration](#)

OpenCapture Access Rules

Device: IXM Titan FV  
Finger Vein

Fingerprint  Finger Vein

	Little	Ring	Middle	Index	Thumb		Thumb	Index	Middle	Ring	Little
<b>Left</b>											
Biometric Quality	--	--	--	--	--						
Image Quality	--	--	--	--	--						
Duress finger	--	--	--	--	--						

	Thumb	Index	Middle	Ring	Little
<b>Right</b>					
Biometric Quality	--	--	--	--	--
Image Quality	--	--	--	--	--
Duress finger	--	--	--	--	--

Face

Biometric Quality

Face Type

Titan  Touch2

Write On SmartCard OK

Figure 82: OnGuard – Finger Vein Device Selection



### STEP 5

Click on the rectangle box drawn under name of the finger for **Finger Vein** enrollment.

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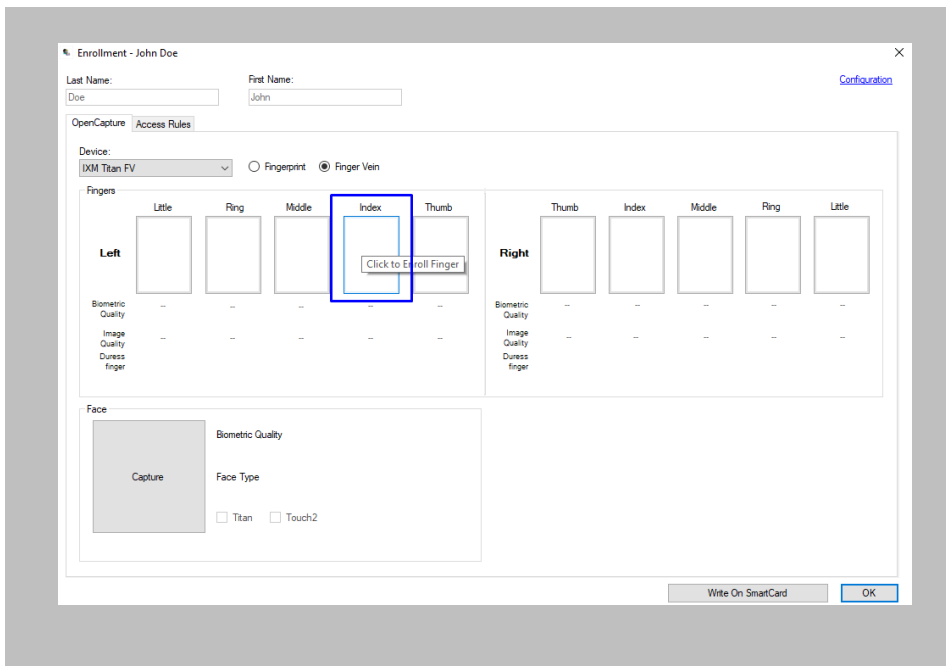


Figure 83: OnGuard – Finger Vein Enrollment



### STEP 6

Click on **OK** to save enrollment.

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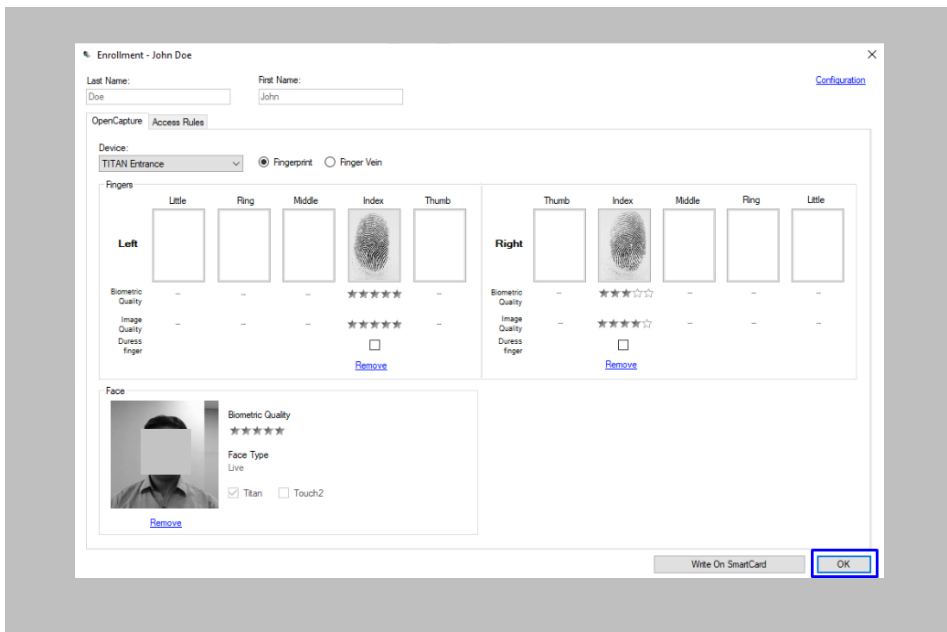


Figure 84: OnGuard – IXM WEB Save Enrollment



## Access Rules Configuration from the OnGuard Enrollment Add-On

### STEP 1

Click on **'Access Rules'** → Select **'Access Rules'** and **'Security Settings'** of your choice.

### STEP 2

Select **'Health Access Rule'** → Select settings according to your requirements.



Note: Thermal Screening is only available if a TITAN + Enhancement Kit is installed.

**Enable Mask Detection:** Enable this field to allow the device to perform **mask detection**.

- **Mask Detection Rule:** Users can choose one of the following options to select which action occurs when the **Mask Detection** Rule triggers:
  - Use Device Rule
  - Allow on Fail
  - Deny on Fail

**Enable Thermal Screening:** Enable this field to start **Thermal Screening** during Authentication.

- **Thermal Screening Rule:** Users can choose one of the following options to select which action occurs when the **Thermal Screening** Rule triggers:
  - Use Device Rule
  - Allow on Fail
  - Deny on Fail

**Attestation Questions:** Enable this field to allow the device to perform **Attestation Questionnaires** during Authentication.

- **Attestation Questions Rule:** Users can choose one of the following options to select which action occurs when the **Attestation Questions** Rule triggers:
  - Use Device Rule
  - Allow on Fail
  - Deny on Fail

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### STEP 3

Click on **OK** to save User Access Rules settings.

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The screenshot shows a configuration window titled "Enrollment - John Doe". At the top, there are input fields for "Last Name" (Doe) and "First Name" (John), with a "Configuration" link to the right. Below these are two tabs: "OpenCapture" and "Access Rules", with "Access Rules" selected and highlighted by a blue box. The "Access Rules" section is divided into two columns. The left column, "Access Details", contains three rows of dropdown menus: "Access Rules" (set to "None"), "1:N Security" (set to "Medium"), and "1:N Face Security" (set to "Medium"). The right column, "Health Access Rule", contains two columns of settings. The first column has checkboxes for "Enable Mask Detection" and "Vital Signs", both checked, and dropdown menus for "Mask Detection Rule" and "Vital Signs Rule", both set to "Use Device Rule". The second column has checkboxes for "Enable Thermal Screening" and "Attestation Questions", both checked, and dropdown menus for "Thermal Screening Rule" and "Attestation Questions Rule", both set to "Use Device Rule". At the bottom of the window, there are two buttons: "Write On SmartCard" and "OK", with the "OK" button highlighted by a blue box.

Figure 85: OnGuard – IXM WEB Save Access Rules Settings





### Save User Records on Cards from the OnGuard Enrollment Add-On

#### STEP 1

Open the 'Enrollment' add-on → Perform enrollment as per requirement → Click on 'Write on SmartCard' button.

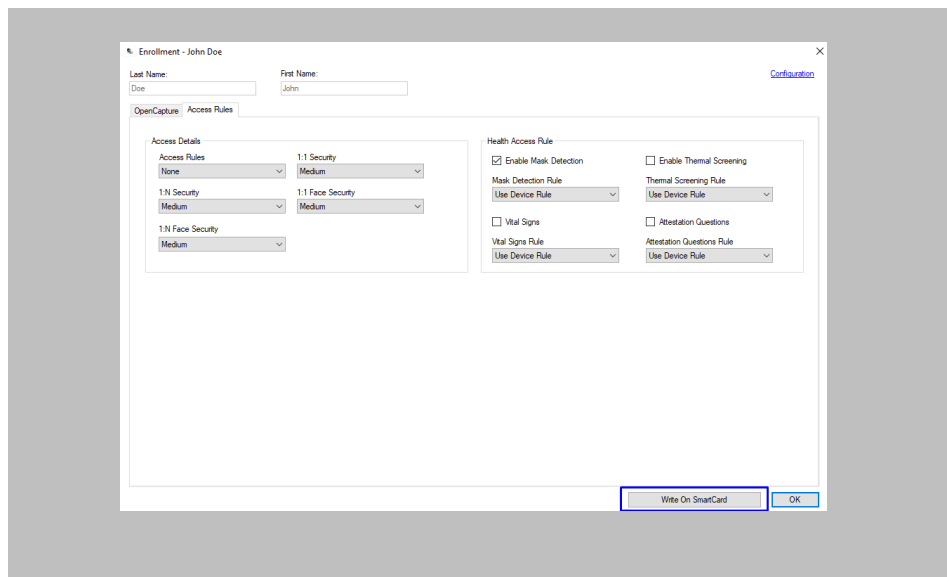
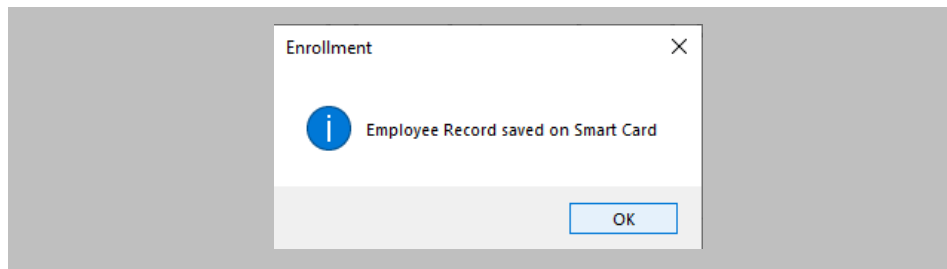


Figure 86: OnGuard - IXM WEB Save User Record on Card

#### RESULT

The following message will be displayed when the user record is successfully saved on the card.



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Figure 87: OnGuard – IXM WEB User Record Saved on Card

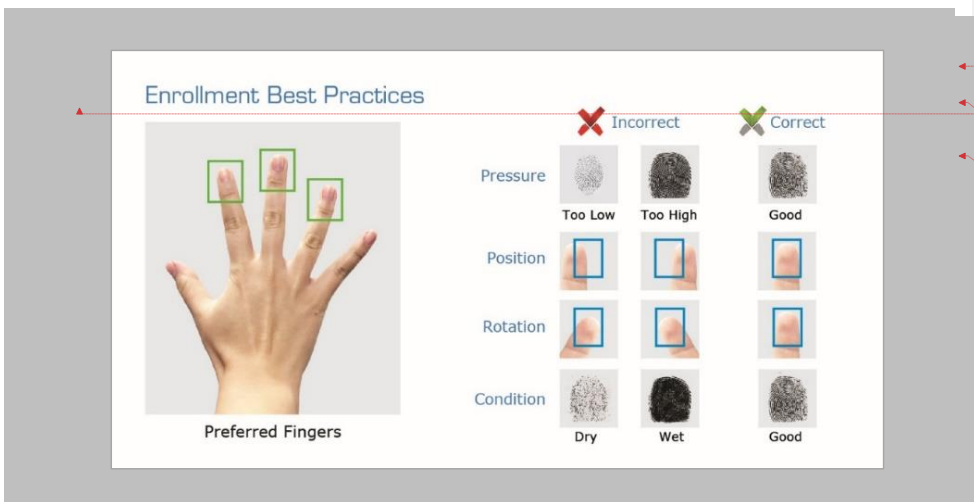
## 18.15. Enrollment Best Practices

### 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~~needed.

### 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 off from finger before placement.



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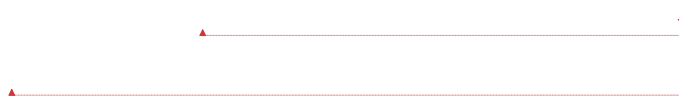
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Figure 88: Fingerprint Enrollment Best Practices



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## 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 89: Fingerprint Images Samples

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## 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.

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### 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.

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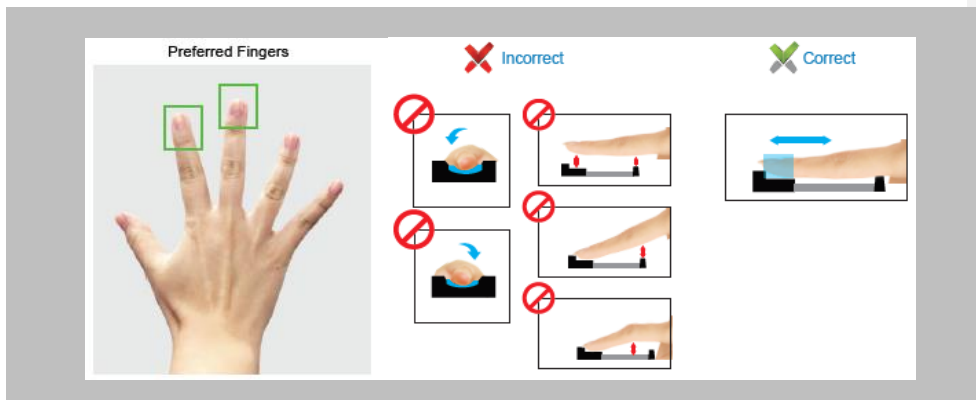


Figure 93: Finger Vein Enrollment Best Practices

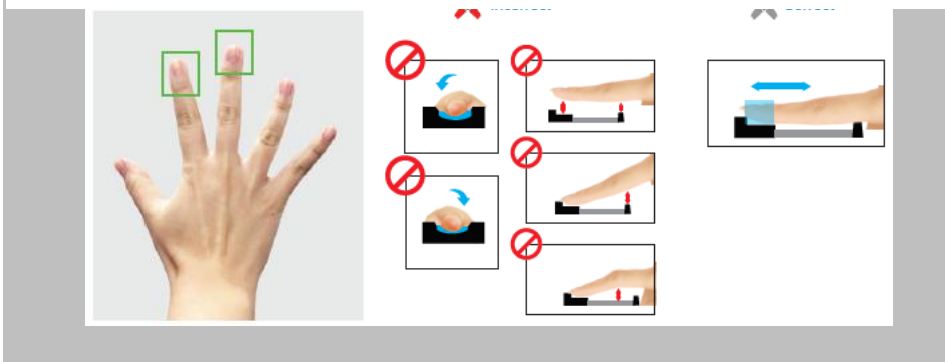




Figure 90: Finger Vein Enrollment Best Practices

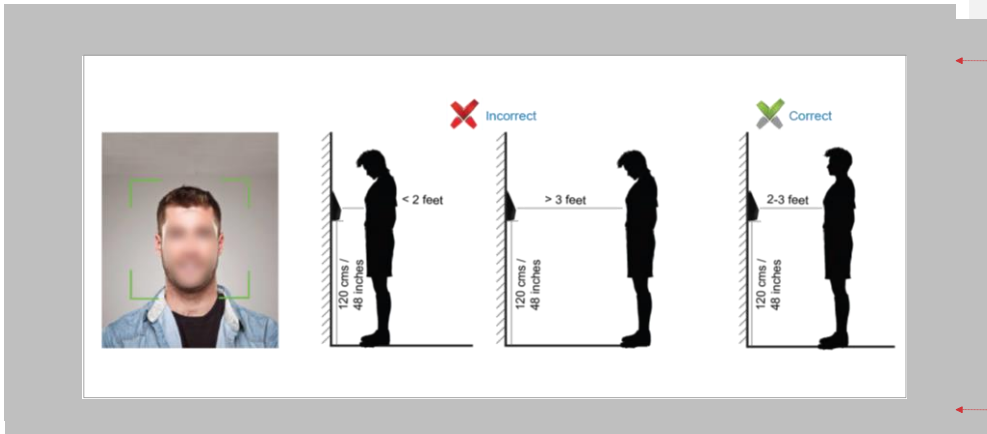
#### Face Enrollment Best Practices

- 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.

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Figure 91: Face Enrollment Best Practices







## 49-16. Send Logical Events to OnGuard

The following settings are needed in System Administration to receive logical events for two events from IXM WEB.

1. Temperature
2. Mask

Procedure

### STEP 1

In System Administration Click **Additional Hardware** → Select **Logical Sources**.

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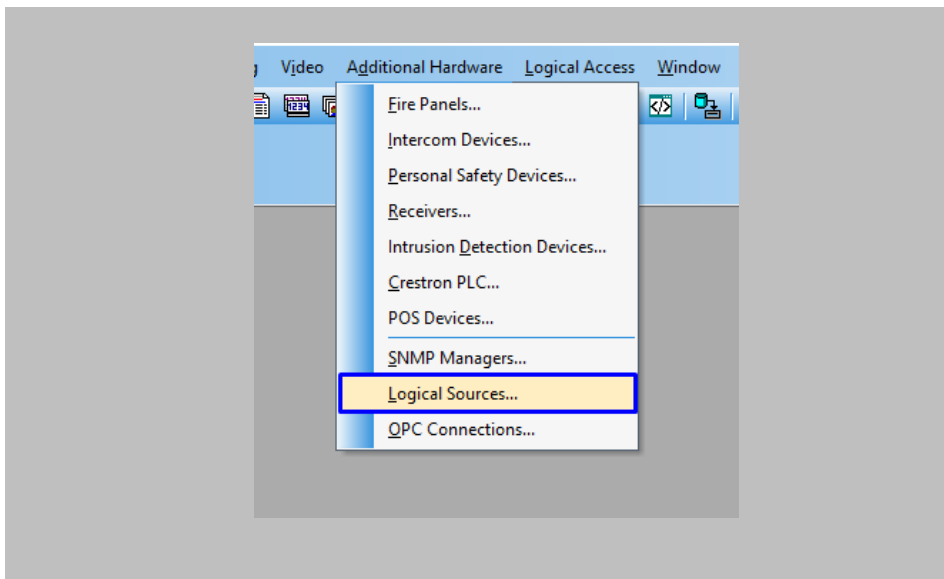


Figure 92: OnGuard - Add New Logical Source



## STEP 2

Click on **Add** button.

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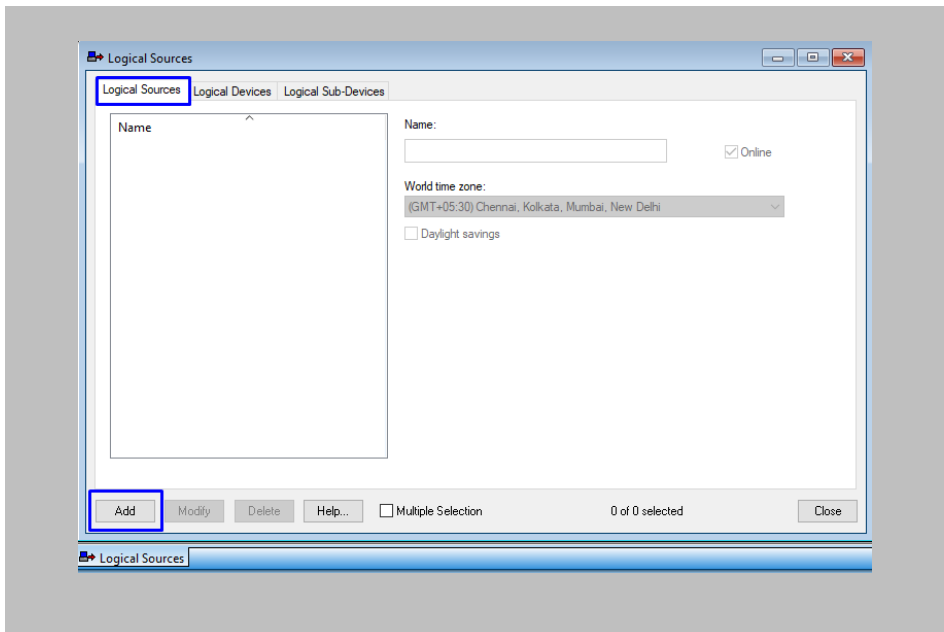


Figure 93: OnGuard – Logical Source



### STEP 3

Enter the following details:

- **Name:** Define the name of 'Logical Source'.
- **World TimeZone:** Select timezone from the 'World time zone' dropdown.

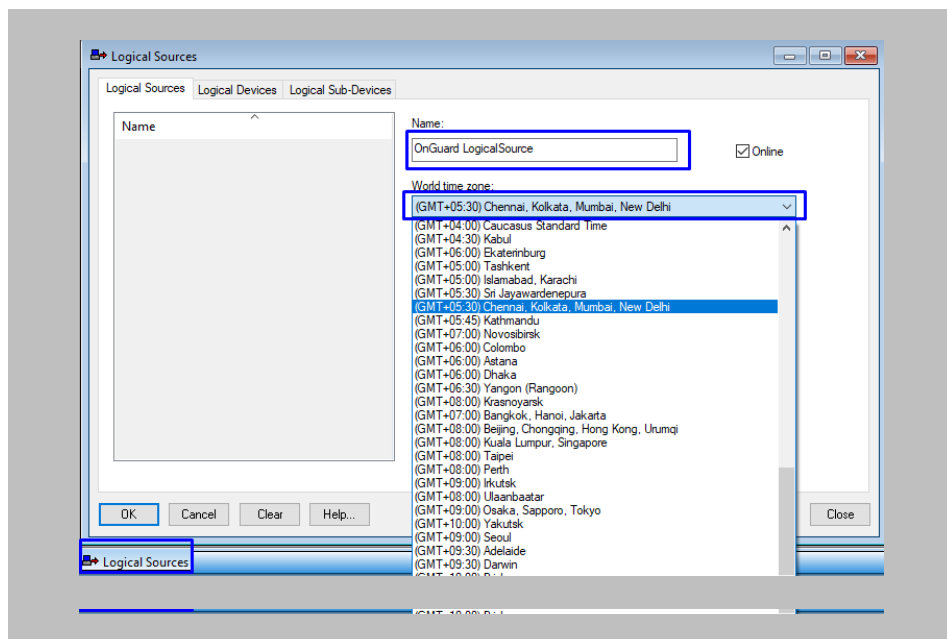


Figure 94: OnGuard - Add New Logical Source

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**STEP 4**

Click **OK**.

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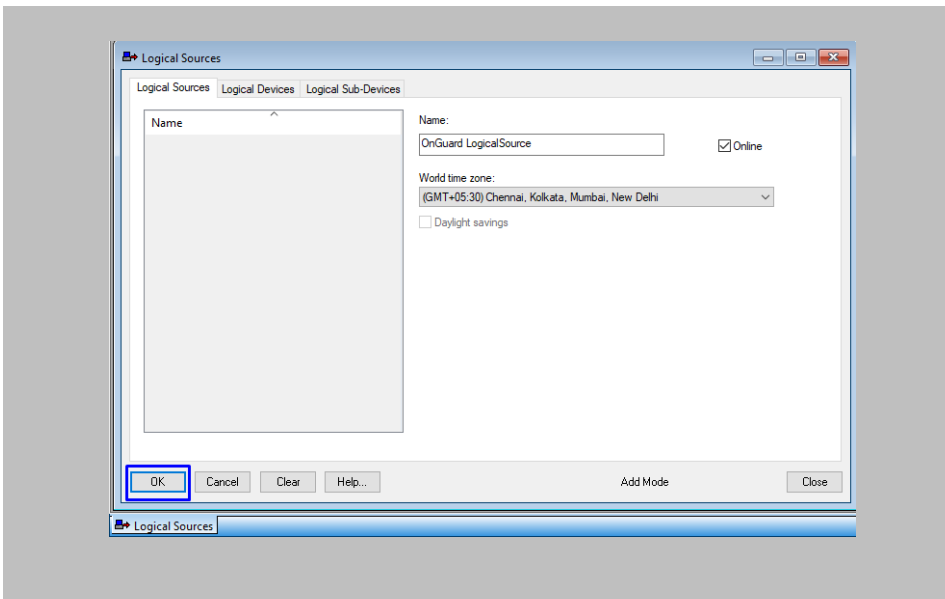
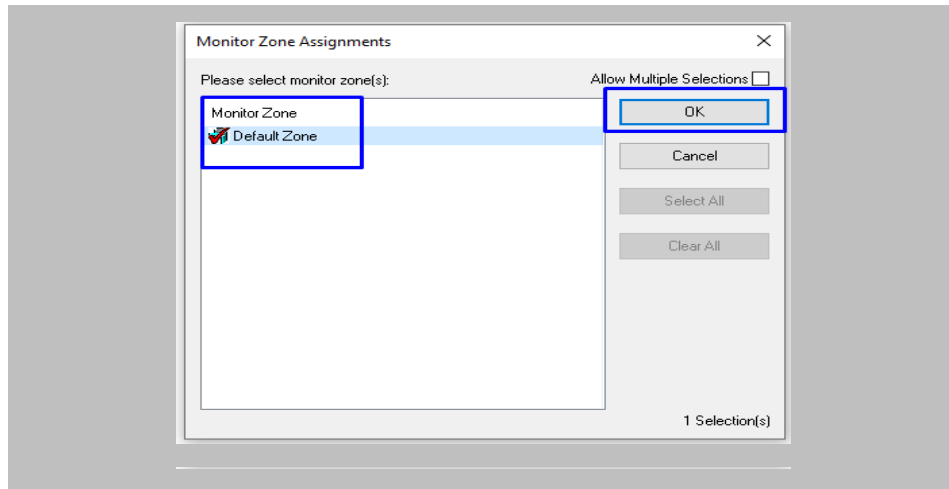


Figure 95: OnGuard - Save Logical Source



STEP 5

Select the **Monitor Zone** of your choice → Click **OK**.



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Figure 96: OnGuard - Logical Source Monitor Zone

Created '**Logical Source**' will be displayed as shown below.

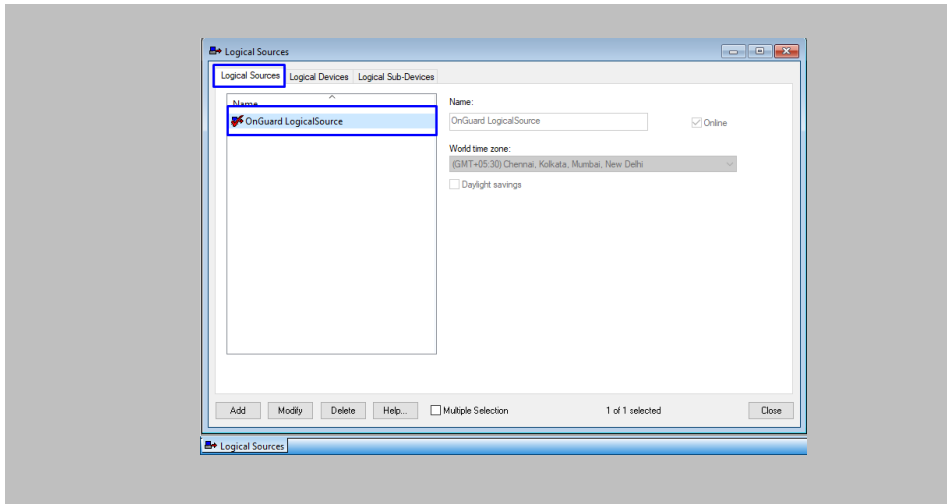


Figure 97: OnGuard - Logical Sources List

STEP 6

Click on the 'Logical Device' tab → Add.

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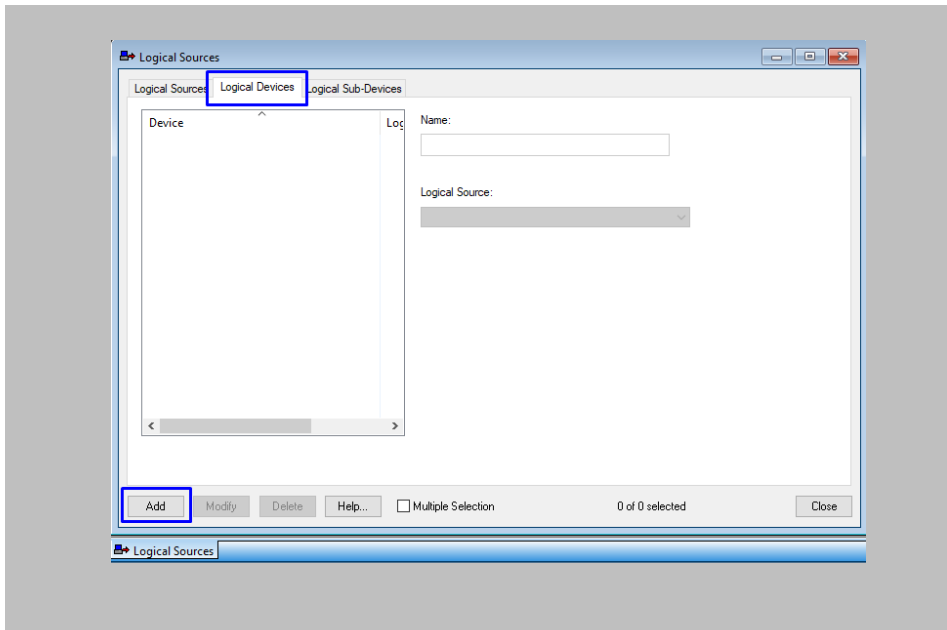




Figure 98: OnGuard - Logical Device





### STEP 7

Enter the following details:

- **Name:** Define the name of 'Logical Device' for which you want logical events.



Note: The name of 'Logical Device' should be the same as the name of the Invixium device for which you want logical events in OnGuard.

- **Logical Source:** Select 'Logical Source' from the dropdown.

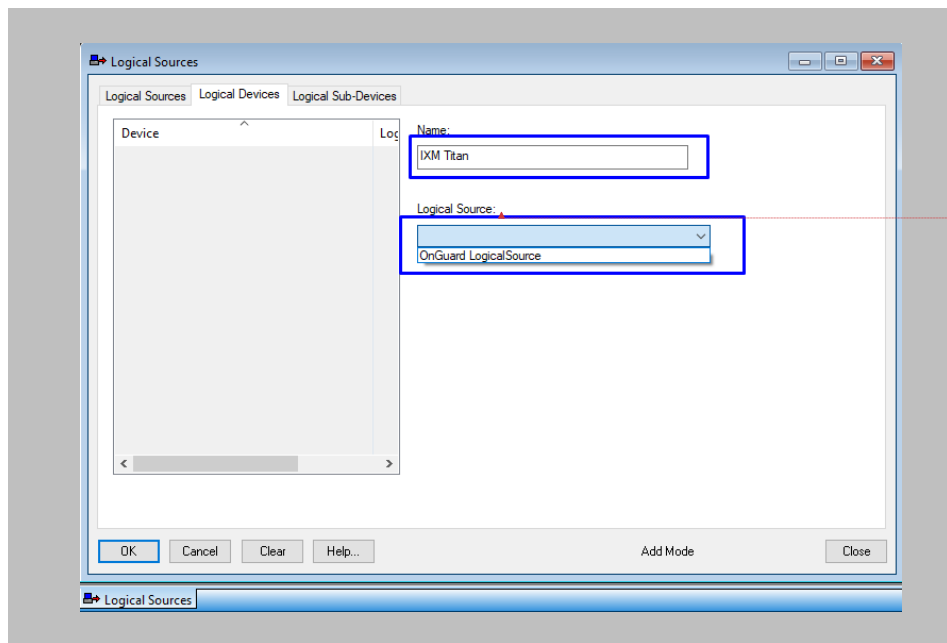


Figure 99: OnGuard - Logical Device Configuration



**STEP 8**

**Click OK**

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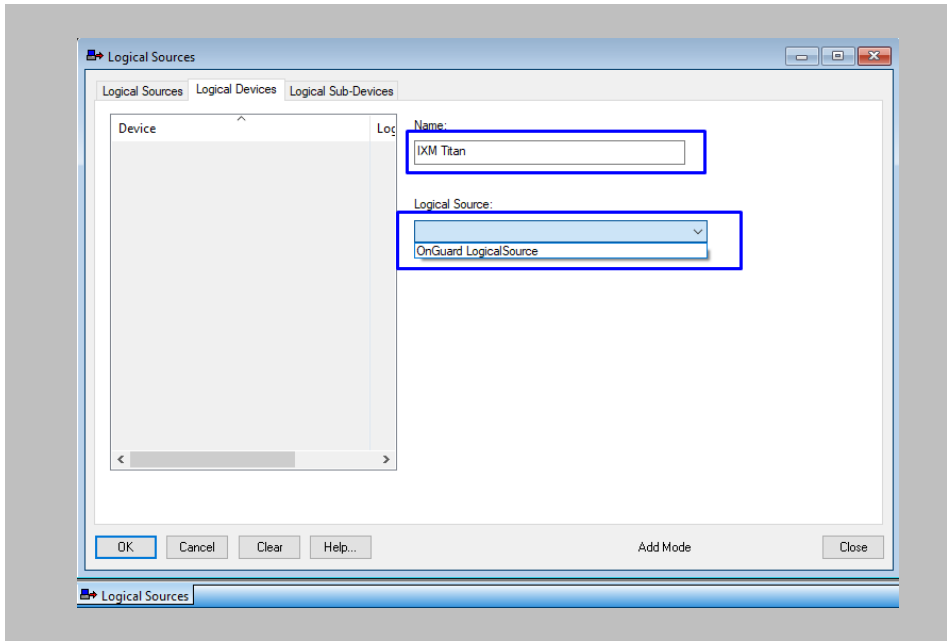


Figure 100: OnGuard - Logical Device Configuration



STEP 8

Click OK.

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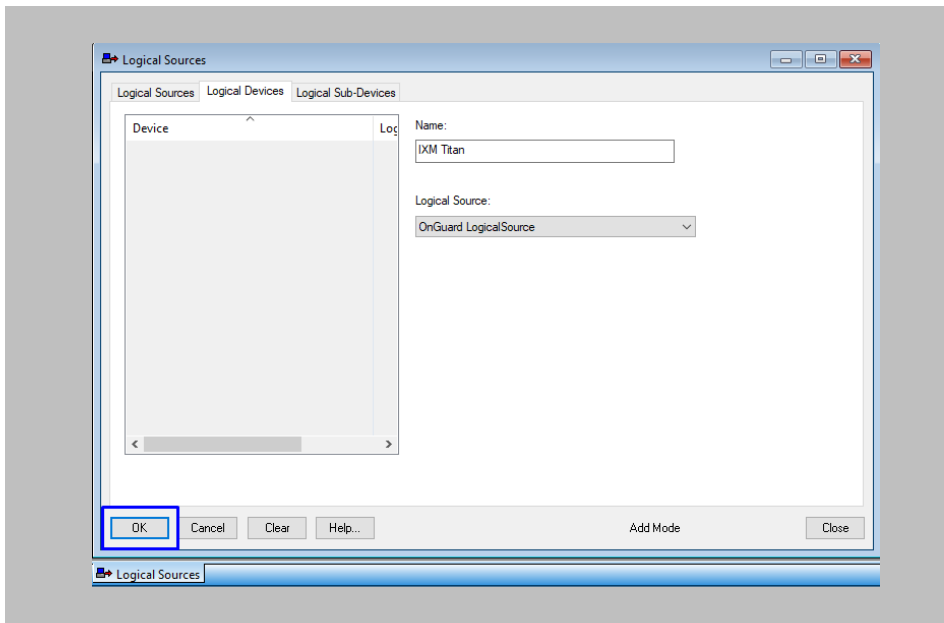


Figure 103: OnGuard Save Logical Device



The created 'Logical Device' will be displayed as shown below.

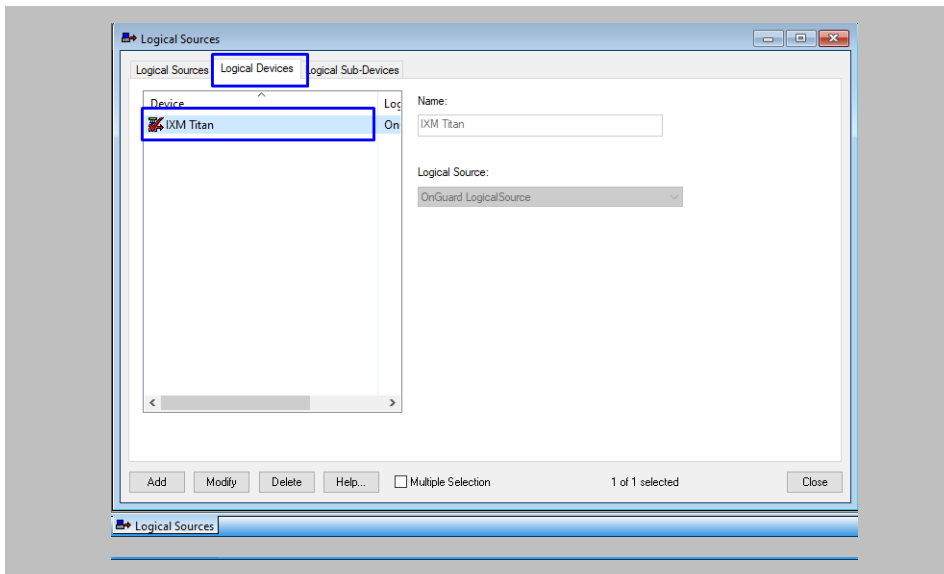


Figure 101: OnGuard - Logical Devices List

### STEP 9

When **mask** and **thermal** violations are observed during authentication on the **Invixium** device, EBT and mask events will be picked up from **EBTEventDetails** and sent to OnGuard.

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### STEP 10

To view these events open **Alarm Monitoring**.

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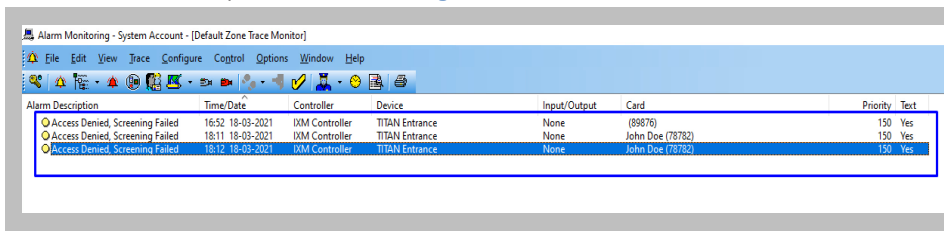




Figure 102: OnGuard - Mask and Thermal Events

**STEP 14**

**STEP 14**

To view the details of any event, select that **event** → Right Click → Click **View Associated Text**.

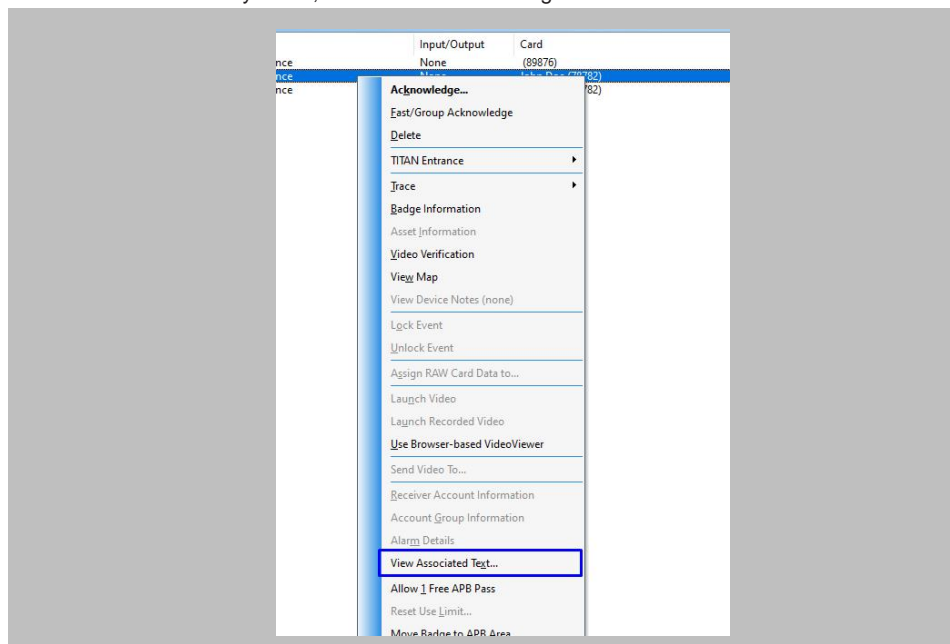
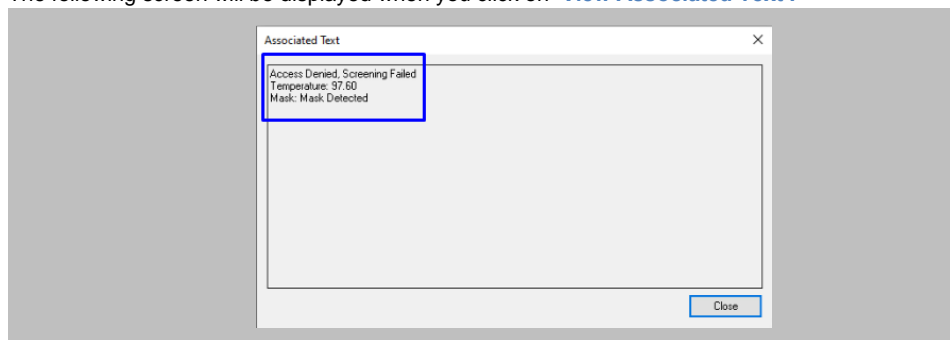


Figure 103: OnGuard - View Associated Text

The following screen will be displayed when you click on **'View Associated Text'**.




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Figure 104: OnGuard - View Associated Text

## 20.17. \_\_\_-Configure Custom PIN Fields in OnGuard

The following settings are needed in System Administration to synchronize the PIN number of the badge from OnGuard to IXM WEB.

 Note: Invixium and LenelS2 strongly recommend performing a backup before performing this step!

### STEP 1

Open **'Forms Designer'** → Select **'Cardholder'** → **OK**.

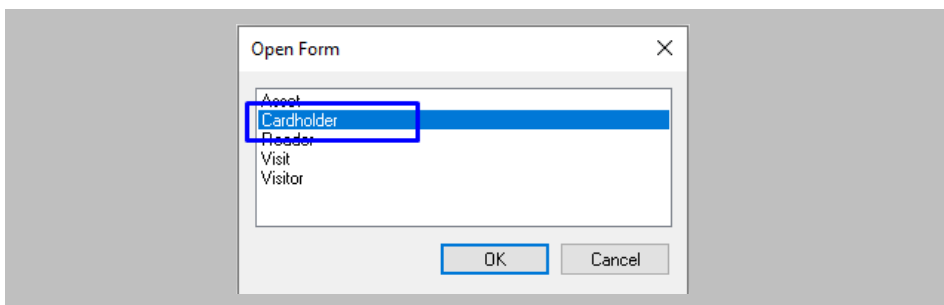


Figure 105: OnGuard - Custom Pin

### STEP 2

Once the **'Cardholder'** window appears → Select the **'Badge'** tab.

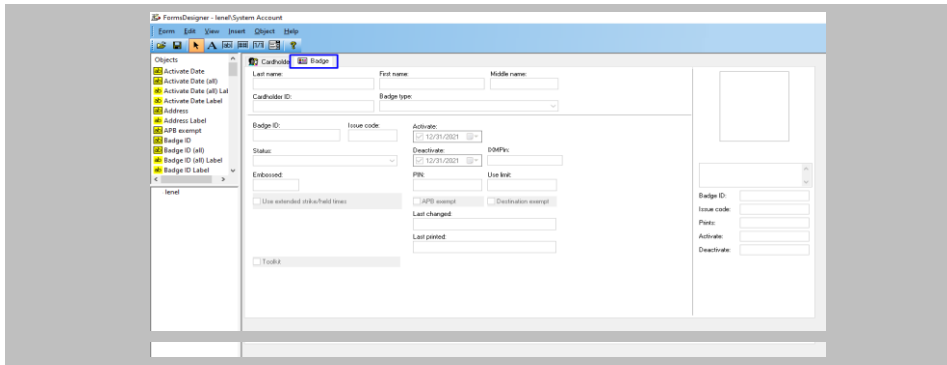


Figure 106: OnGuard - Badge Custom Pin

### STEP 3

Click **Insert** → **Numeric Field** → Design **Numeric Field** at the place where you want on the 'Badge' window.

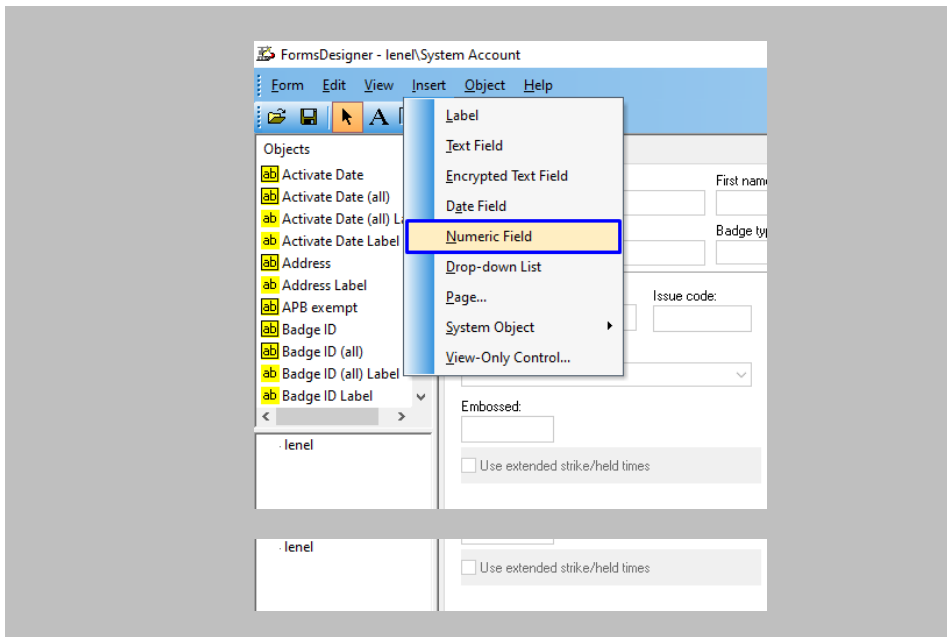


Figure 107: OnGuard - Add Numeric Field

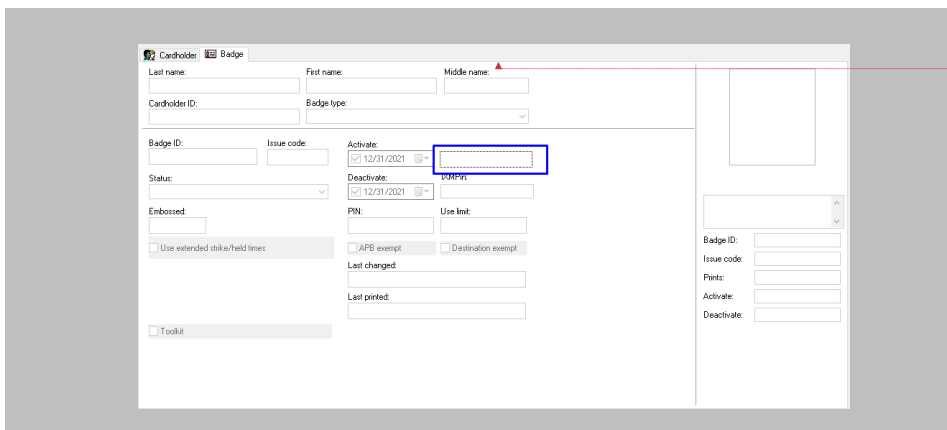


Figure 108: OnGuard - Add Numeric Field





Cardholder: Badge

Last name: First name: Middle name:

Cardholder ID: Badge type:

Badge ID: Issue code: Activate:  12/31/2021

Status: Deactivate:  12/31/2021

Embossed: PIN: Use link:

Use extended strike/hold times  AFB exempt  Destination exempt

Last changed: Last printed:

Toolkit

Badge ID: Issue code: Prints: Activate: Deactivate:

Figure 111: OnGuard – Design Numeric Field

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STEP 4

Enter 'Field Name' → OK.

FldNum866 (FLDNUM866) Properties

General Settings | Fonts | Field Settings | Field Styles

Object name: OnGuardPin  Required

Field name: OnGuardPin  Indexed

Type: Numeric  Unique

Length: 10 Decimate: 0

Date format: Short date, no time

Default:

Template:  Key >>

vCard:

GSC:

CAC (non PIV):

DMV/Passport:

PIV:

PIV:

FASC-N:

OK Cancel Help

Figure 109: OnGuard - Save Numeric Field

STEP 5



Click **Insert** → **Label** → Design **Label** at the place where you want on the **'Badge'** window.

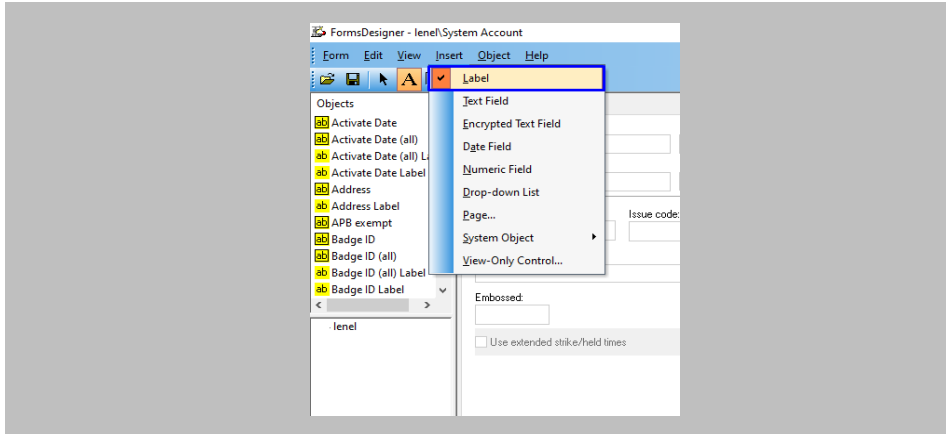


Figure 110: OnGuard - Add Label

**STEP 6**

Enter **'Text'** → **OK**.

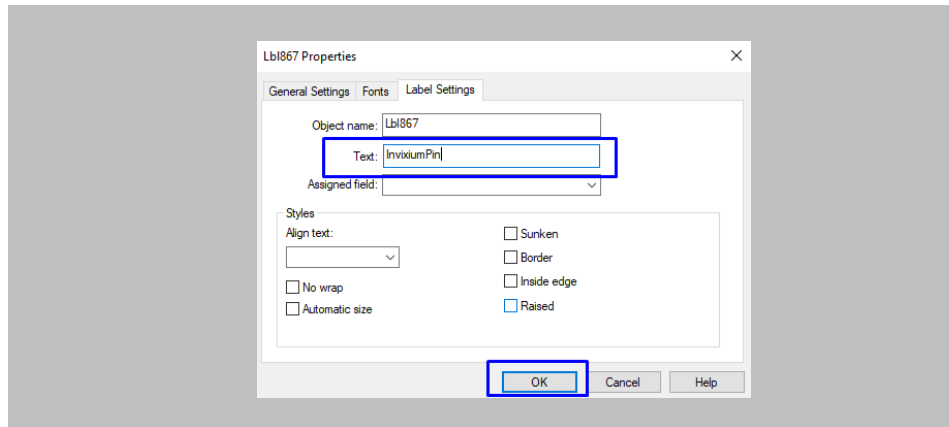
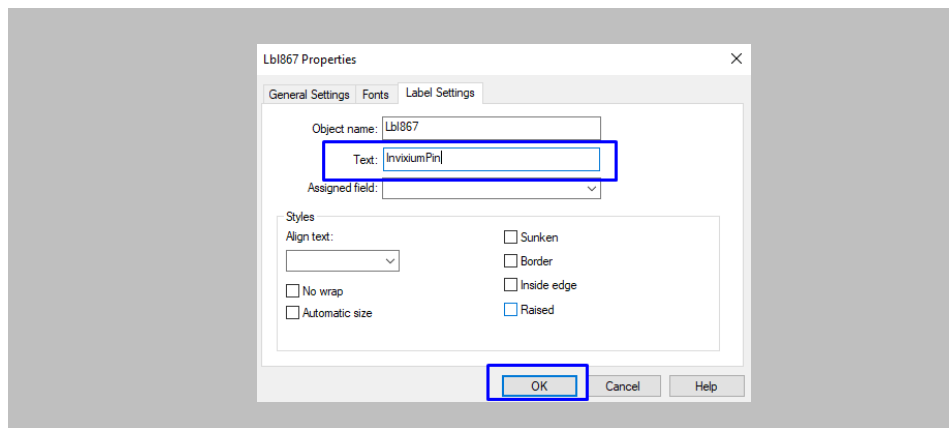


Figure 111: OnGuard - Add Label

**STEP 6**

Enter **'Text'** → **OK**.



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Figure 114: OnGuard – Save Label

Custom PIN Field will be visible on the 'badge' window as shown below.

A screenshot of the 'Badge' configuration window in the OnGuard system. The window has a tabbed interface with 'Cardholder' and 'Badge' tabs. The 'Badge' tab is active. The form contains several sections: 'Personal Information' with fields for Last name, First name, Middle name, Cardholder ID, and Badge type; 'Activation' with fields for Badge ID, Issue code, Activate date (12/31/2021), and Deactivate date (12/31/2021); 'Status' with a dropdown menu; 'Embossed' with a checkbox; 'Exemptions' with checkboxes for APB exempt and Destination exempt; 'Last changed' and 'Last printed' with text input fields; and 'Toolkit' with a checkbox. A 'PIN' field is present, and a blue box highlights the 'Invixium Pin' label next to it. On the right side, there is a 'Use limit' checkbox and a vertical scrollable list containing fields for Badge ID, Issue code, Prints, Activate, and Deactivate.

Figure 112: OnGuard - IXM WEB Custom Pin



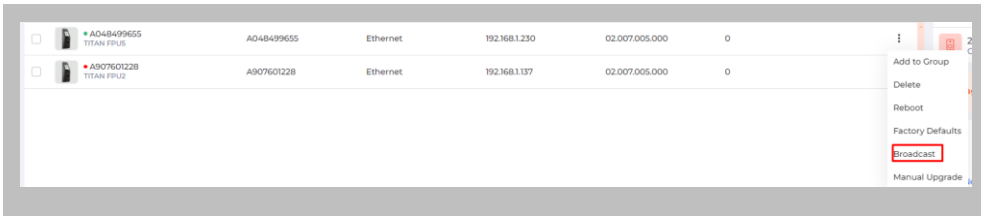
## 21.18. Appendix

### Pushing Configuration to Multiple Invixium Readers

Procedure

#### STEP 1

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



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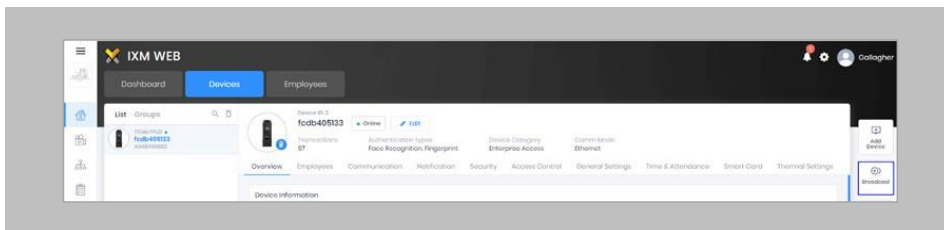


Figure 113: IXM WEB - Broadcast Option

#### STEP 2

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

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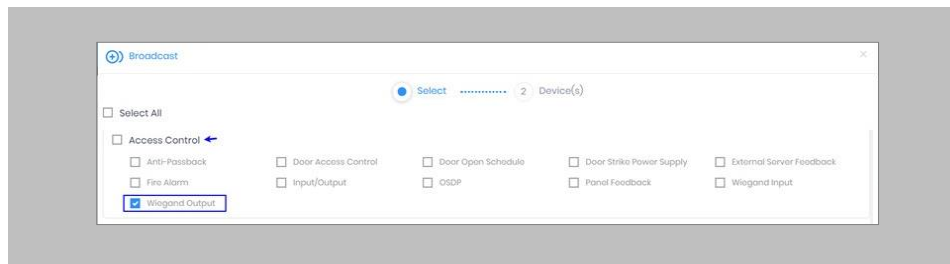
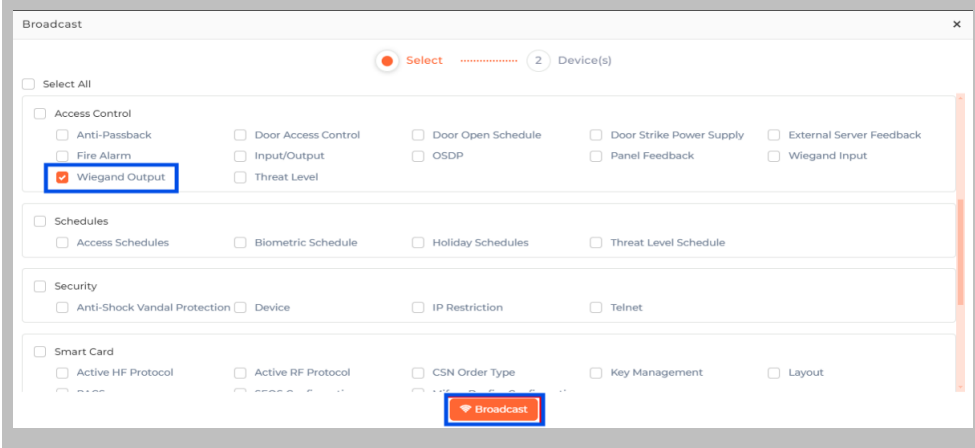


Figure 114: IXM WEB - Wiegand Output Selection in Broadcast.

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**STEP 3**

Click **Broadcast**.

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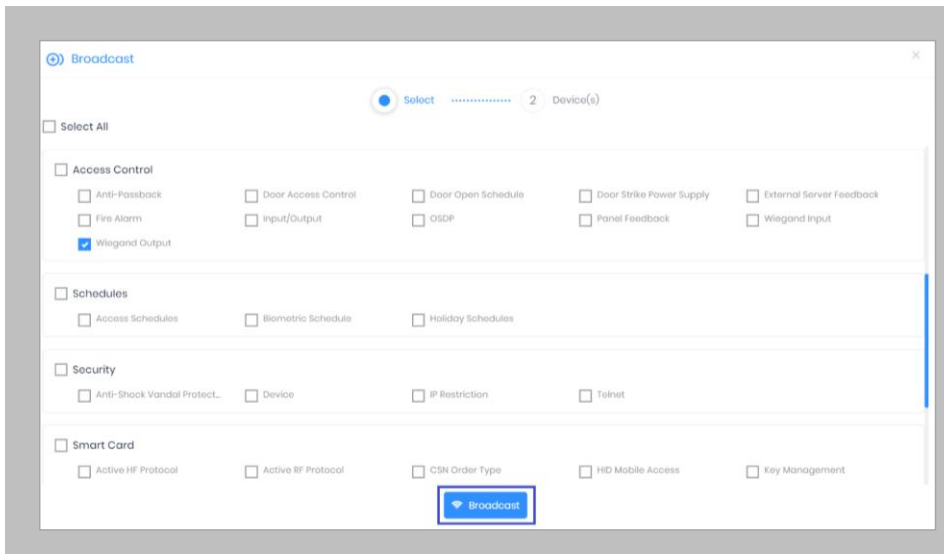


Figure 115: IXM WEB - Broadcast Wiegand Output Settings



### STEP 4

### 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.

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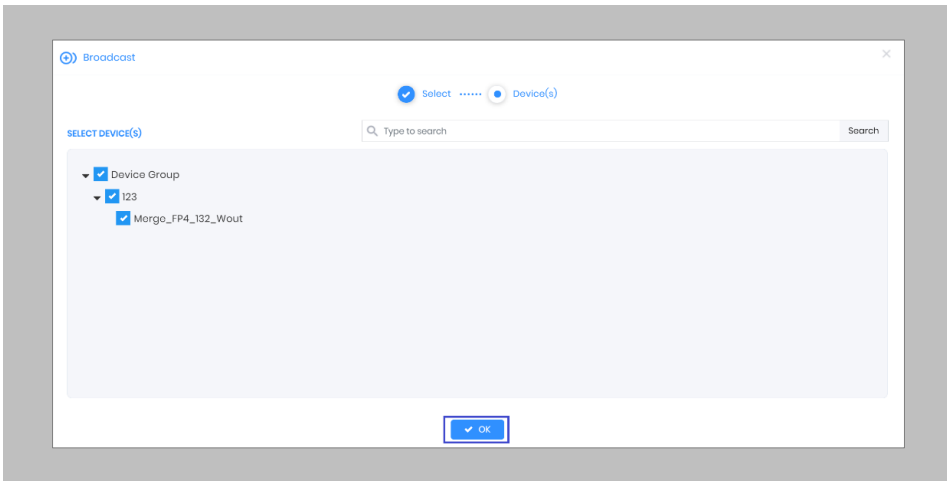
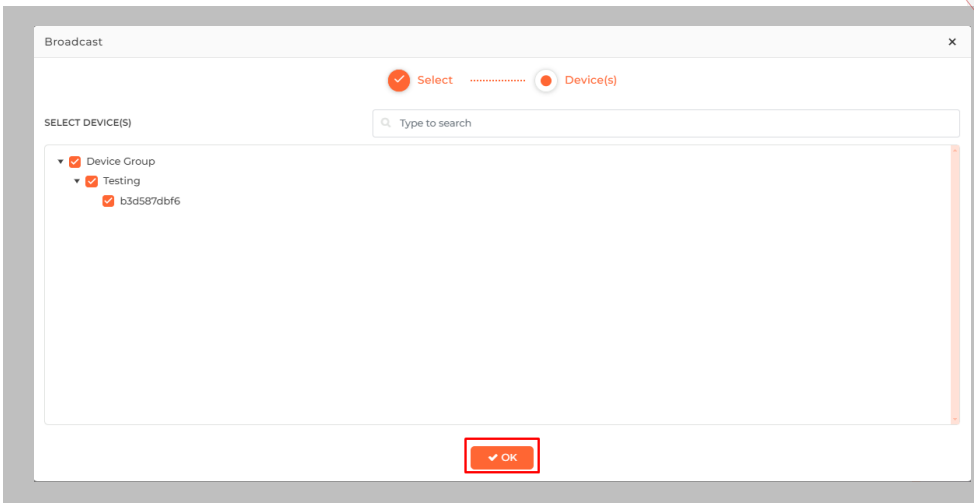




Figure 116: IXM WEB - Broadcast to Devices



Note: The popup will display devices of the same category only.

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## Configuring for OSDP Connection

### STEP 1

From [Home](#), click the [Devices](#) tab. Select the required [Device](#) and navigate to [Access Control](#). Click [OSDP](#).

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

EVENTS	ON COLOR	OFF COLOR	ON TIME (MSEC)	OFF TIME (MSEC)	DISPLAY MESSAGE
Access Granted	Green	Green	0	0	<input checked="" type="checkbox"/>
Access Denied	Red	None	0	0	<input checked="" type="checkbox"/>
Enter PIN	None	None	0	0	<input checked="" type="checkbox"/>
Dual Authentication	None	None	0	0	<input checked="" type="checkbox"/>

switch to **ON**.

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**COMMUNICATION SETTINGS**

Baud Rate: 115200 | Parity Bit: None | Stop Bit: 1 Bit | Timeout (msec): 500

**GENERAL SETTINGS**

Enable Log |  Display OSDP Text |  Smartcard Passthru |  Enable Biometric

**SECURE CHANNEL**

Secure Key Type: AES128 | Secure Key: | HEX

**OSDP EVENTS**

EVENTS	ON COLOR	OFF COLOR	ON TIME (MSEC)	OFF TIME (MSEC)	DISPLAY MESSAGE
Access Granted	Red	None	0	0	<input checked="" type="checkbox"/>
Access Denied	Green	None	0	0	<input checked="" type="checkbox"/>
Enter PIN	Yellow	None	0	0	<input checked="" type="checkbox"/>
Dual Authentication	Blue	None	0	0	<input checked="" type="checkbox"/>

Figure 117: IXM WEB - OSDP Settings



STEP 2

Provide Supply values for the configuration settings below:

<b>Baud Rate</b>	The baud rate of the serial communication. The value must be the same as the Access Control Panel's value.
<b>Parity Bit</b>	The parity bit of the serial communication. The value must be the same as the Access Control Panel's value.
<b>Stop Bit</b>	The stop bit of the serial communication. The value must be the same as the Access Control Panel's value.
<b>Timeout (msec)</b>	<u>The time duration (500 to 10000 milliseconds) up to which the Device should keep trying to connect to the Access Control Panel. The default timeout duration is 300 milliseconds. On timeout, the Device LCD flashes "Access Denied" message and the "Application Logs" window will show a failure message.</u>
<b>Enable Log</b>	This logs OSDP events for support and debugging purposes. Invixium recommends disabling this feature unless needed.
<b>SmartCardSmartcard Passthru</b>	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.
<b>Enable Biometric</b>	Enables biometric template verification.
<b>Secure Channel</b>	The secure key is provided by your Access Control Panel most of the time. However, provisions for manual entry

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	can be added as TEXT or HEX.
<b>Event</b>	<p>The OSDP static events for panel feedback and capture pin are:</p> <ul style="list-style-type: none"> <li>Access Granted</li> <li>Access Denied</li> <li>Enter <b>PINPin</b></li> </ul> <p>Dual <del>Authentication</del><b>Authentication</b> – It is an access mode <del>that</del><b>which</b> requires valid access by two authorized cardholders to enter an access zone within a specified time period. This feature is available only if <del>the</del><b>Multi-User Authentication</b> feature is enabled and configured. To configure <del>the</del><b>Multi-User Authentication</b> feature, from <b>Home</b>, click the <b>Devices</b> tab. Select the required Device and navigate to <b>General Settings</b>. Click on <del>the</del><b>Multi-User Authentication</b> section. <del>Upon</del><b>On</b> enabling this feature, the following actions will be performed:</p> <ul style="list-style-type: none"> <li>The Device will request <b>for</b> the credentials of the second user after the first user is authenticated successfully.</li> <li>Card numbers for both, the first and the second user will be transferred to the Access Control Panel.</li> </ul> <p>Two events, one for the first user and the other for the second user will be logged into the Access Control Panel.</p>
<b>On Color/Off Color</b>	<p>The LED color configuration <del>is</del> 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"> <li>Red</li> <li>Green</li> <li>Yellow</li> <li>Blue</li> </ul>
<b>Enable-VISITOR-OSDP</b>	<p><del>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"</del></p>

Table 5: IXM WEB - OSDP Configuration Options

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

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<b>Display OSDP Text</b>	<p>Enables to display OSDP Text.</p> <p>Notification on the device's screen.</p> <p>If enabled: Displays both the unit <del>hard-coded</del><b>hard-coded</b> notification and the Access Control Panel notification.</p>
<b>Display Message</b>	<p>JXM notification - Access Granted or Access Denied.</p> <p>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

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### STEP 3

Click **Apply** to save the settings.

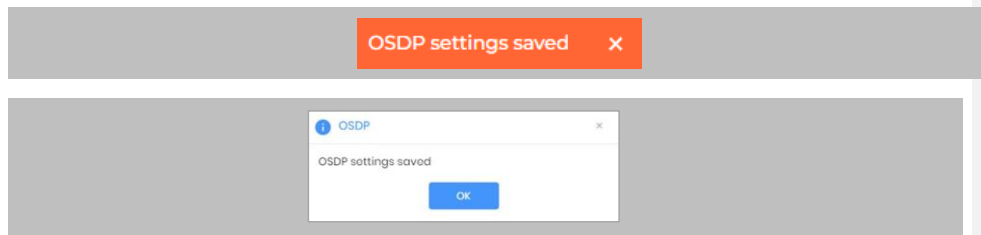


Figure 118: IXM WEB - Save OSDP Settings

### 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 OnGuard.

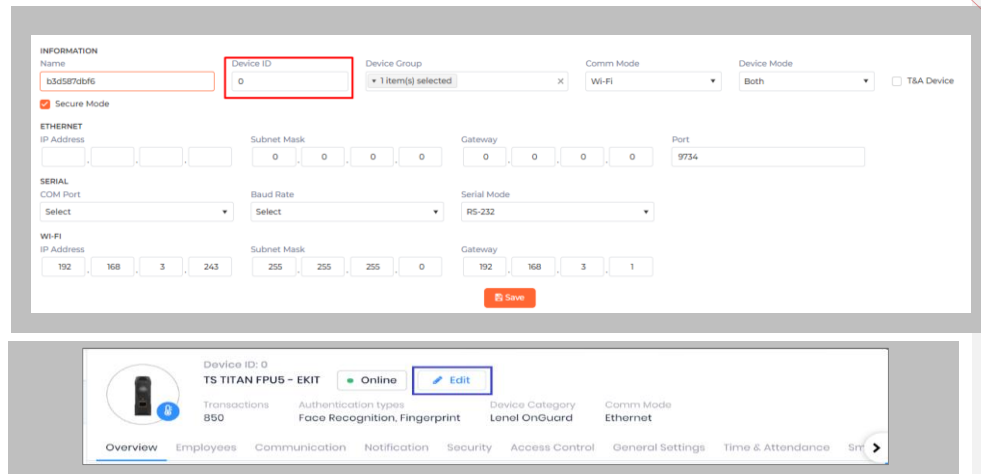


Figure 119: IXM WEB - Edit Device

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A screenshot of the 'Edit Device' web interface. The form is titled 'Edit Device' and contains several sections: 'INFORMATION' with fields for Name (TS TITAN FPUS - EKIT), Device ID (0), Device Group (1 item(s) selected), Common Mode (Ethernet), Device Mode (Both), and a checkbox for TSA Device; 'NETWORK' with Ethernet settings for IP Address (192.168.2.145), Subnet Mask (255.255.255.0), Gateway (192.168.2.1), and Port (0734); 'SERIAL' with COM Port (Soloct), Baud Rate (Soloct), and Serial Mode (RS-232); and 'WI-FI' with IP Address, Subnet Mask, and Gateway fields. A blue 'Save' button is located at the bottom right of the form.

Figure 120: IXM WEB - Edit Device Options



### STEP 5

Login to 'System Administration' → Click 'Access Control' → 'Readers and Doors'.

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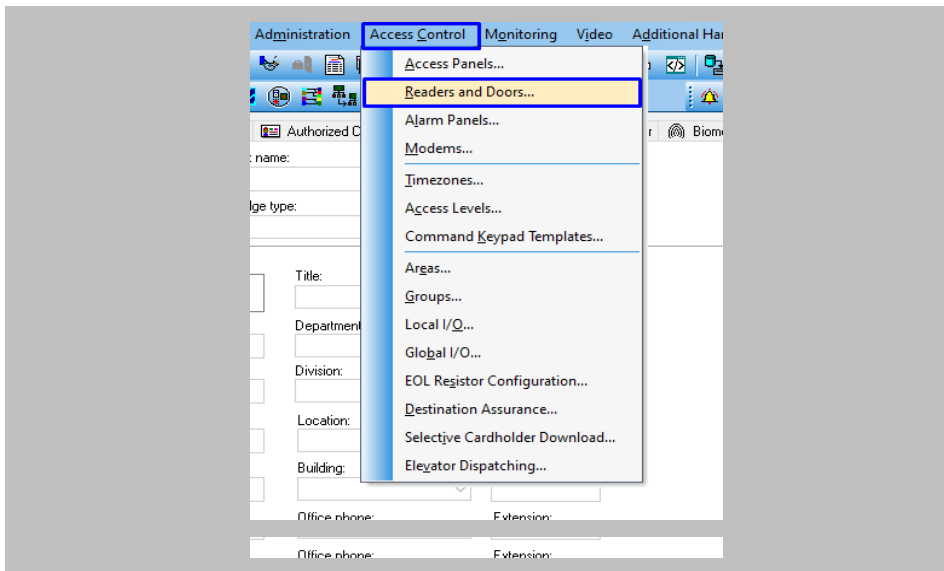


Figure 121: OnGuard - Add OSDP Reader





### STEP 6

Add new 'Reader' → Enter mandatory details → Select 'OSDP Protocol' as output → Click OK.

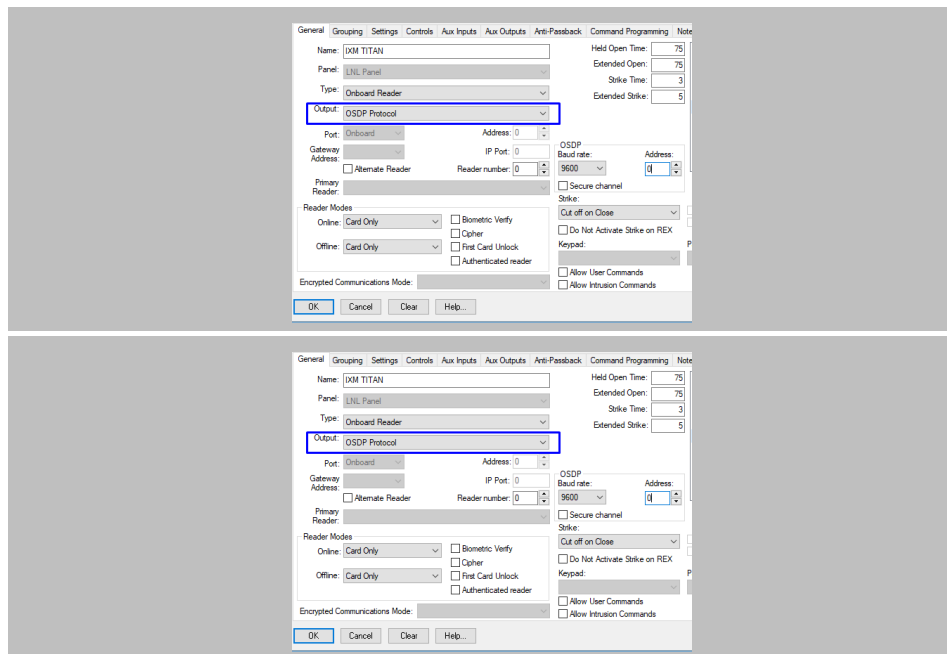


Figure 122: OnGuard - OSDP Reader



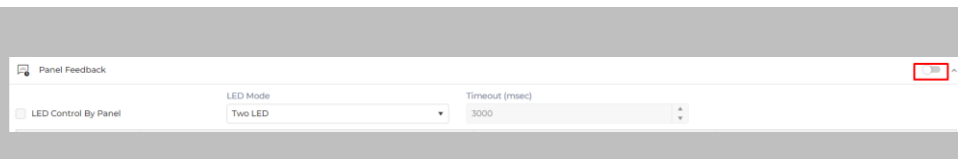
Note: The Invixium's reader address should be the same as the OSDP reader address.

### STEP 7

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 8

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



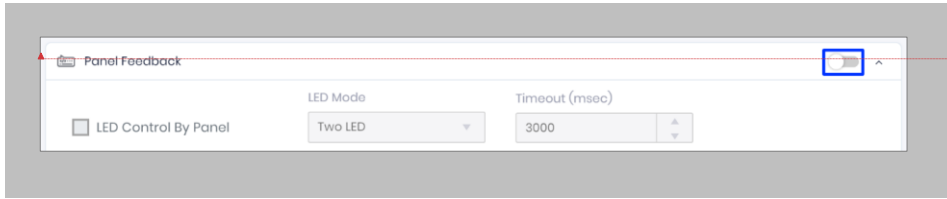
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Figure 123: IXM WEB - Disable Panel Feedback

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## 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

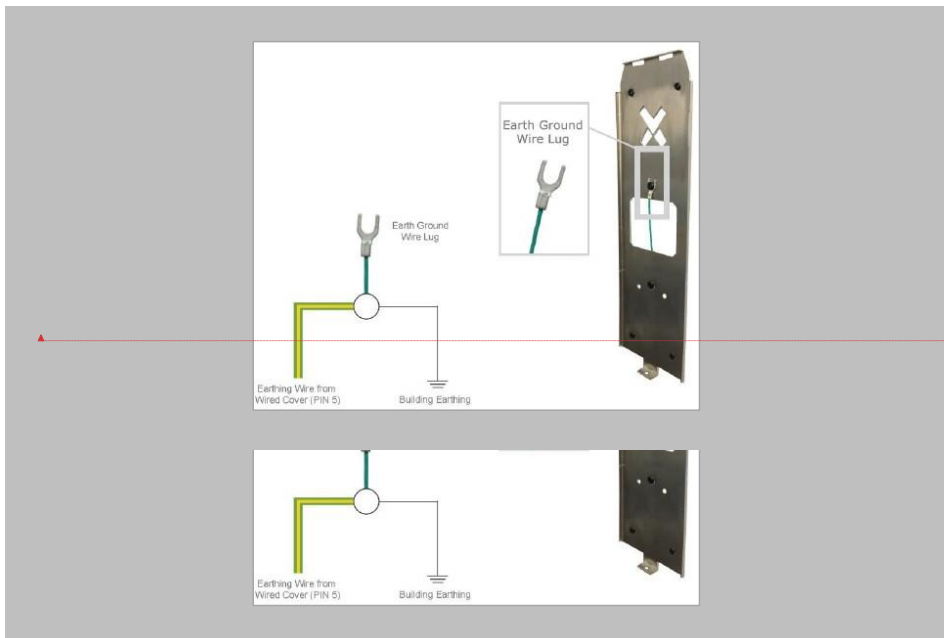
Connect the **green** and **yellow** earth wire from the wired back cover.

#### 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.



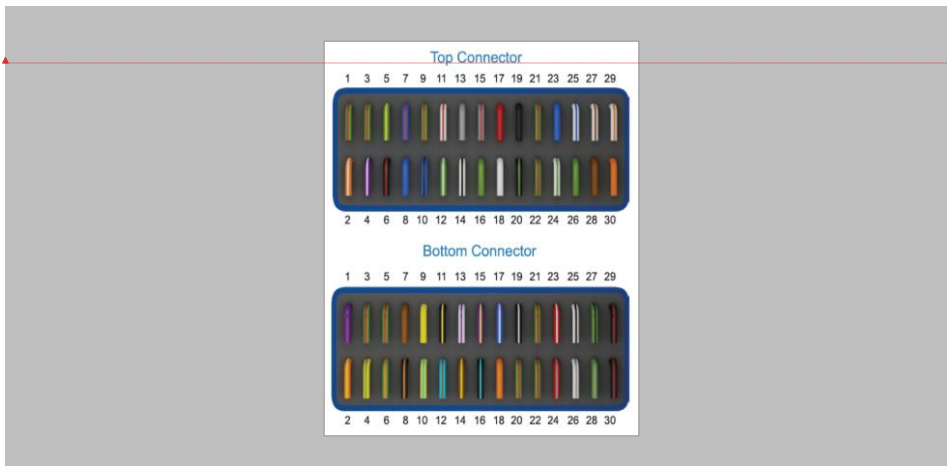
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Figure 125: Earth Ground Wiring

Wiring



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Figure 124: ~~IXM TITAN~~ ~~Top & Bottom Connector~~ Earth Ground Wiring

Wiring

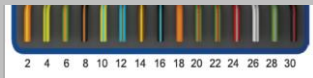


### Get Wired Top Connector

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



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### 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 126: Power, Wiegand & OSDP Wires



All Invixium devices support Wiegand and OSDP.

Invixium devices can be integrated with [LenelGallagher](#) Controller on:

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

### Wiegand Connection

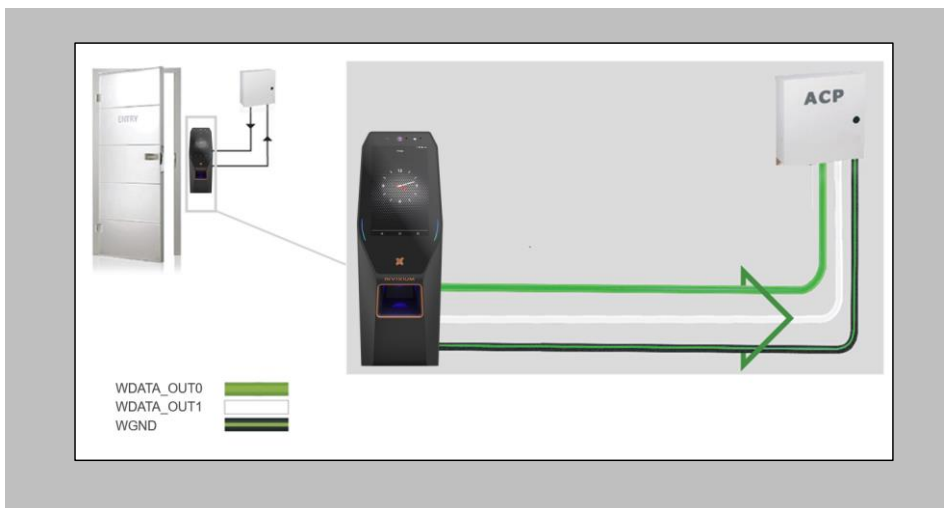


Figure 127: IXM TITAN - Wiegand



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



## Wiegand Connection with Panel Feedback

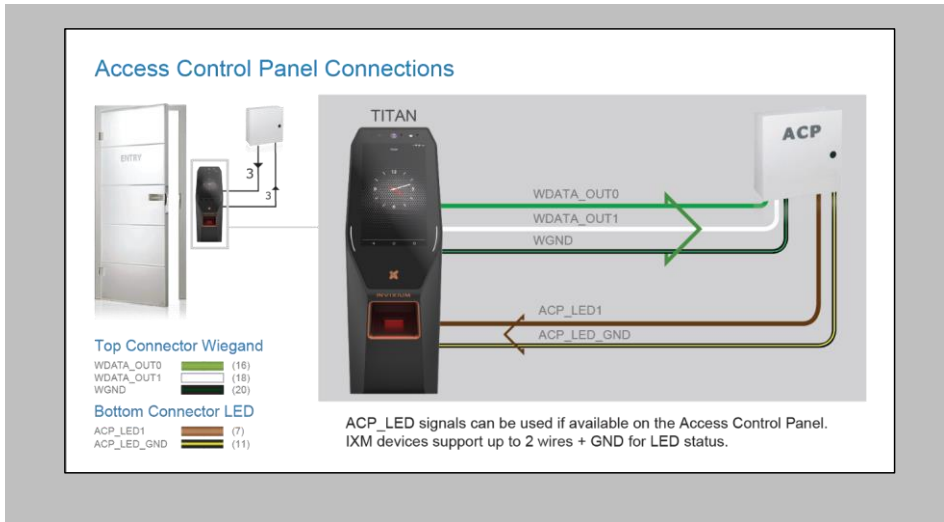


Figure 128: IXM TITAN - Panel Feedback

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## OSDP Connections

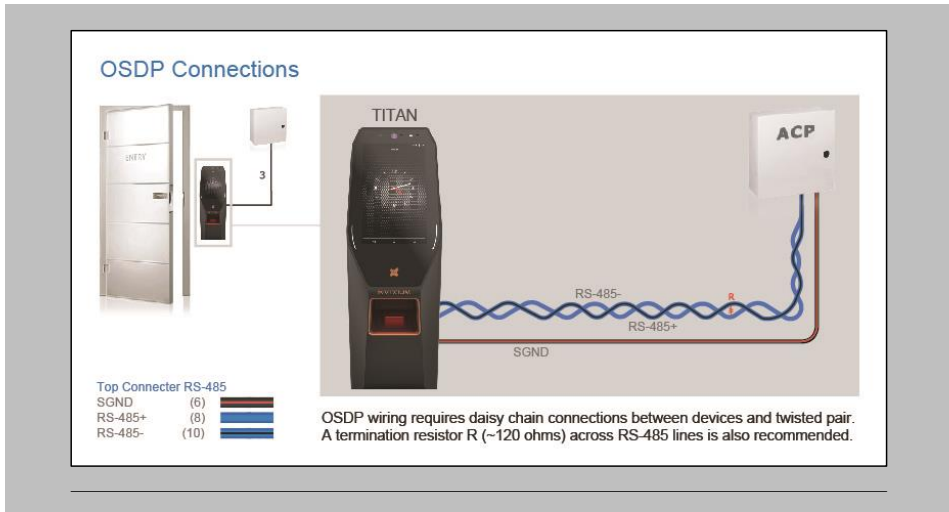


Figure 129: IXM TITAN - OSDP Connections



## 23-19. Troubleshooting

### Reader Offline from the IXM WEB Dashboard

Note: Confirm ~~communication between the~~ Communication of IXM WEB server ~~and the~~ to Invixium reader.

#### Procedure

##### STEP 1

From Home, click the Devices tab.

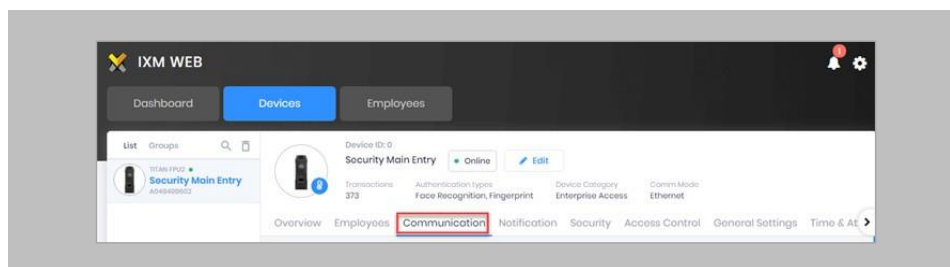
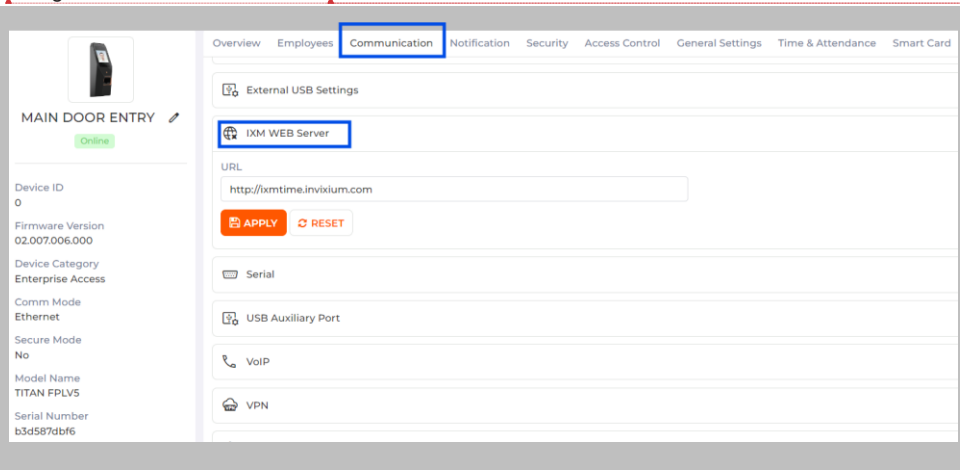
##### STEP 2

~~select~~ Select any device.

##### STEP 3

##### STEP 2

Navigate to the Communication tab.



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[Figure 130: IXM WEB - Device Communication Settings](#)



**STEP 4**

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

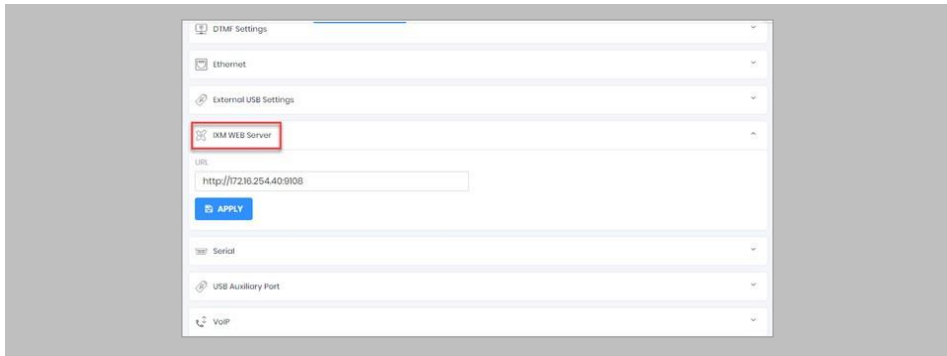


Figure 131: IXM WEB - Server URL Setting

**STEP 3**

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

Default Format: **http://IP-IXMServer:9108**

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

**STEP 5**

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

Format: **http://IP-IXMServer:9108**

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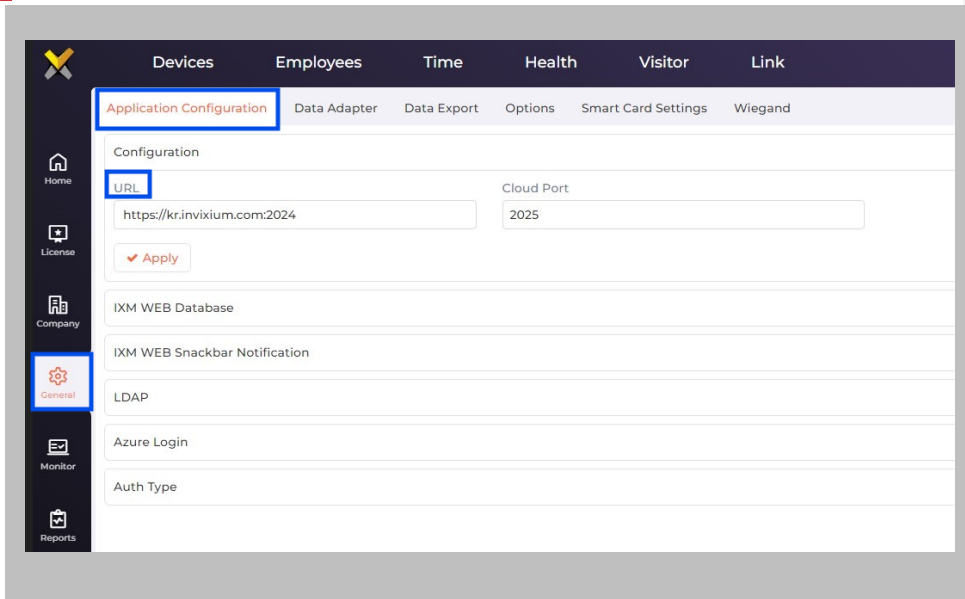
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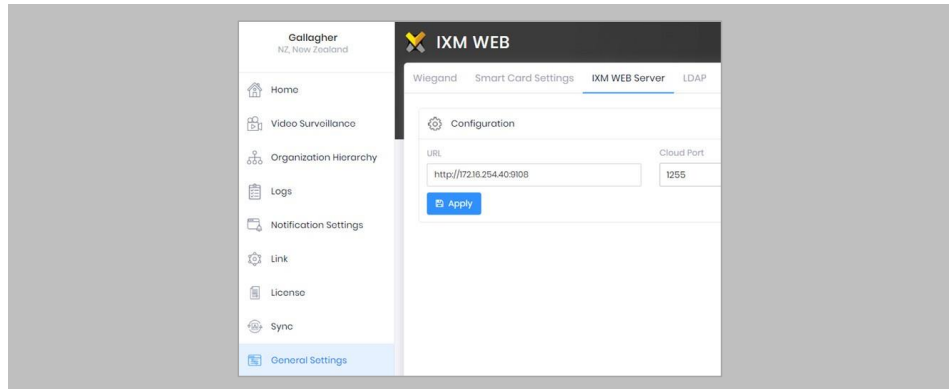


**STEP** In case of IP Address or URL of IXM WEB Server is changed; perform below step to update all registered device(s).

6



Navigate to **General** → **Application Configuration Settings**, and make sure that the **URL** is correct reflects the same setting.



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Figure 132: IXM WEB - Server URL Setting from General Settings



## Cardholder / Badges not importing from OnGuard to IXM WEB

### Procedure

#### STEP 1



Note: Confirm module activation

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

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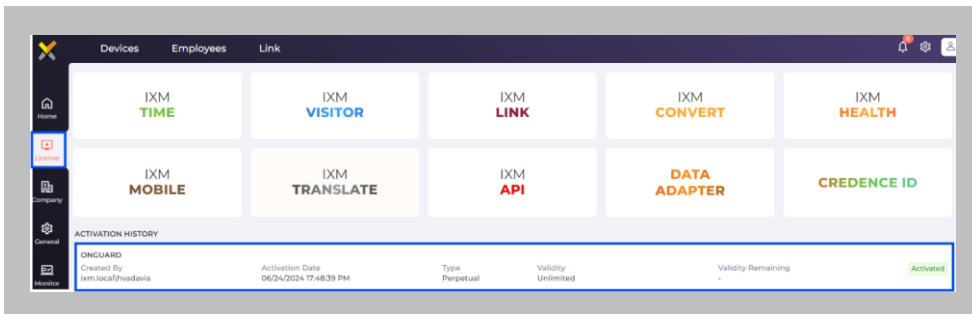


Figure 132: IXM WEB – License Module

#### STEP 2



Note: Confirm below Lenel OnGuard services are up and running.

This can be checked from Windows Services (services.msc)

1. LS OpenAccess
2. LS Web Event Bridge
3. LS License Server



**STEP 3**

Navigate to Link → OnGuard. Confirm error on the toast notification.

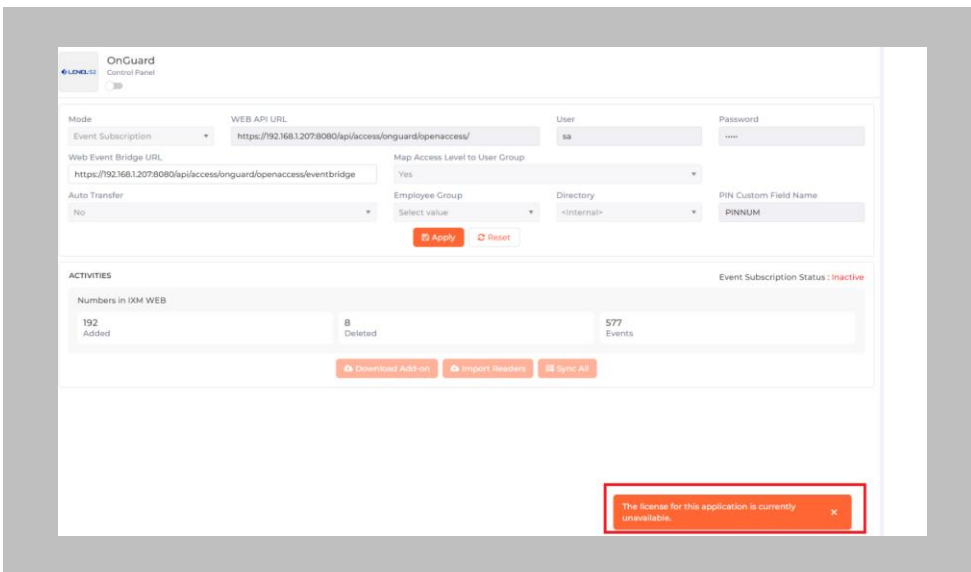


Figure 133: Error in OnGuard configuration

Take necessary actions such as reconfigure Link settings with valid details or check License of Open Access API.

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## Elevated Body Temperature Denied Access but Granted Access in OnGuard

### Procedure

#### STEP 1

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

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Wiegand Output

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

Security Main Entry

EVENTS	ID Type	Duress
Wiegand	Actual Card	None
Identification	Success: Gallagher 40 Bits	Fail: Gallagher 40 Bits
Verification	Success: Gallagher 40 Bits	Fail: Gallagher 40 Bits
Anti-Shock	Format: IXM 82 bit Device S/N	ID Value: Device Serial Number
Heart Beat	Format: None	ID Value: Device ID
Employee not found	Format: Gallagher 40 Bits	Interval (sec): 60
Thermal Authentication	Format: <b>None</b>	
Mask Not Detected	Format: Gallagher 40 Bits	



Figure 133: 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.

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## 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.

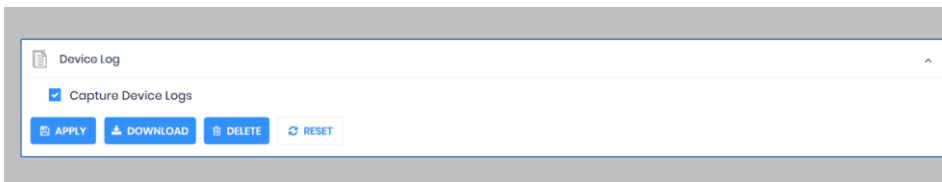
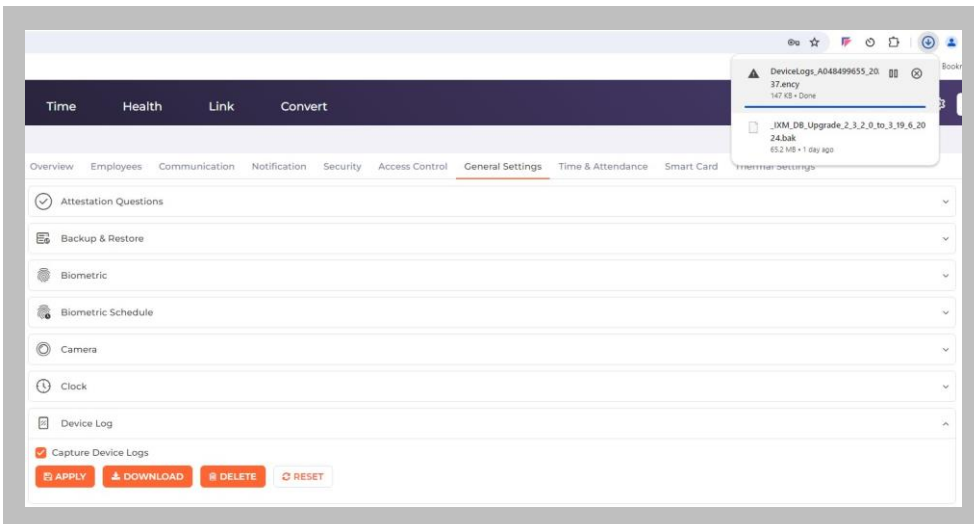


Figure 134: IXM WEB - Enable Device Logs



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

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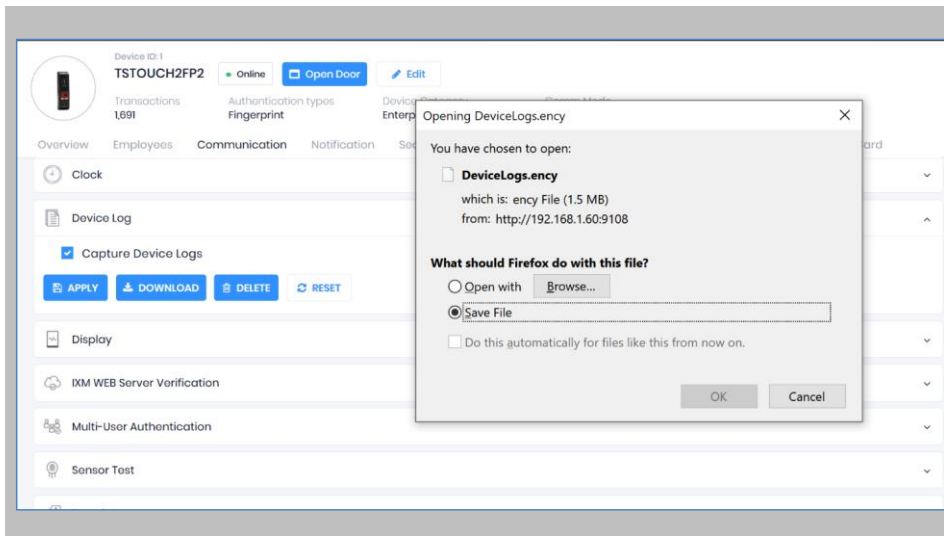


Figure 135: Save Device Log File

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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:

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

Table 7: Logs Folder Location

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## ~~24.20.~~ 24.20. Support

For more information relating to this document, please contact [support@invixium.com](mailto:support@invixium.com).

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