



# IXM WEB Integration with OnGuard by LenelS2

## Installation Instructions

V6V5.0

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P/N XAD-TPI-003-06G



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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. <b>PIN length must be 4-10 characters.</b>
Photo	Photo	
Access Levels	Employee Group / Device Group / Sync Group	Setting Map Access Group to YES in configuration will create an employee group, device group, and sync group in IXM WEB. Further employees imported 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

### Invixium Readers

TITAN	TFACE	TOUCH2	SENSE2	MERGE2	MYCRO
All models					



Note: Invixium 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>3536</del> .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. <del>20.0</del>	v8.0	Yes
IXM WEB 2.3. <del>20.0</del>	v8.1	Yes
IXM WEB 3.0. <del>3536.0</del>	v8.0	Yes
IXM WEB 3.0. <del>3536.0</del>	v8.1	Yes

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Table 1: Compatibility Matrix for IXM WEB & OnGuard



### 3. Checklist

Item List	Interface
Prerequisites for IXM WEB Installation	Invixium
Installation of IXM WEB	Invixium
Email Configuration in IXM WEB	Invixium
IXM WEB and IXM Link Activation	Invixium
Configure IXM Link for 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

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Table 2: Task List Summary



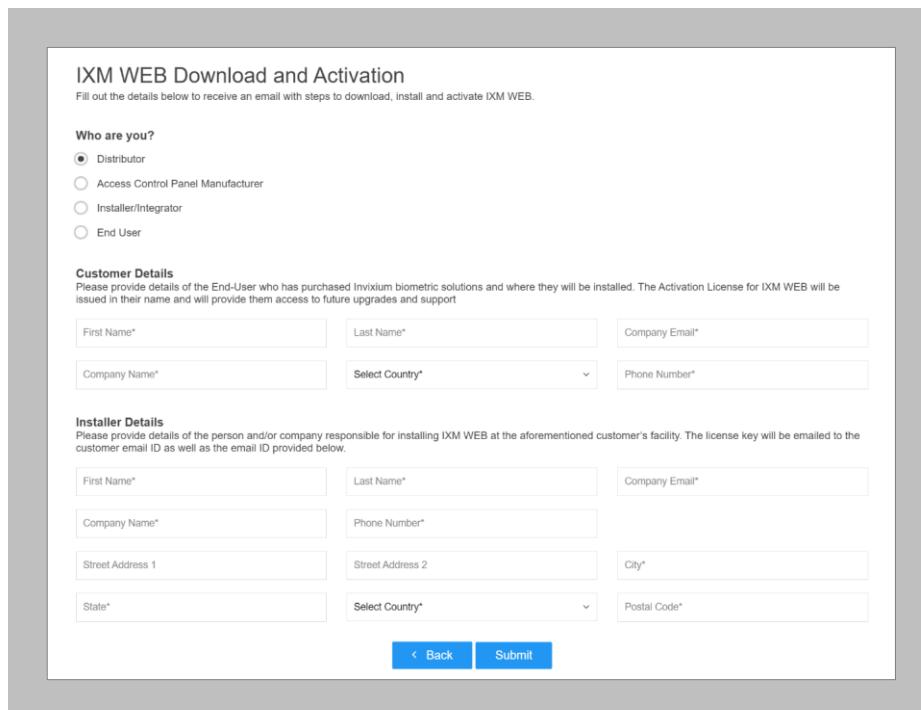
## 5. Prerequisites for Installing Invixium IXM WEB Software

### 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 the "IXM WEB Download and Activation" form. At the top, it says "Fill out the details below to receive an email with steps to download, install and activate IXM WEB." There are three sections: "Who are you?", "Customer Details", and "Installer Details".

**Who are you?**  
 Distributor  
 Access Control Panel Manufacturer  
 Installer/Integrator  
 End User

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

First Name*	Last Name*	Company Email*
Company Name*	Select Country*	Phone Number*

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

First Name*	Last Name*	Company Email*
Company Name*	Phone Number*	
Street Address 1	Street Address 2	City*
State*	Select Country*	Postal Code*

[Back](#) [Submit](#)

Figure 1: IXM WEB Online Request Form

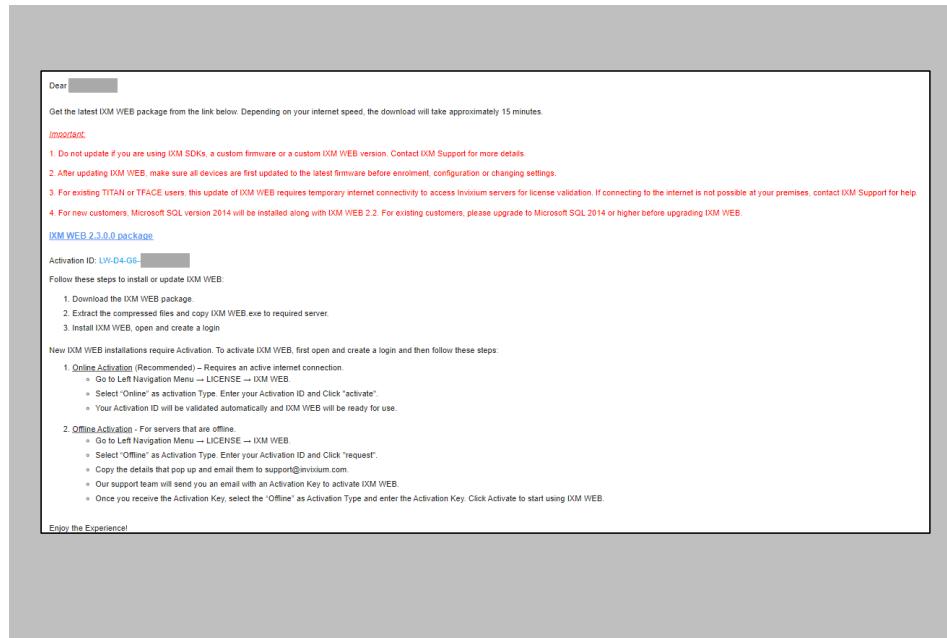




After submitting the completed form, an email will be sent with instructions from [support@invixium.com](mailto:support@invixium.com) to the email ID specified in the form.

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.



A screenshot of an email message. The subject line is partially visible as "Activation ID IXM WEB". The body of the email contains the following text:

Dear [REDACTED]

Get the latest IXM WEB package from the link below. Depending on your internet speed, the download will take approximately 15 minutes.

**Important:**

1. Do not update if you are using IXM SDKs, a custom firmware or a custom IXM WEB version. Contact IXM Support for more details.
2. After updating IXM WEB, make sure all devices are first updated to the latest firmware before enrolment, configuration or changing settings.
3. For existing TITAN or TFACE users, this update of IXM WEB requires temporary internet connectivity to access Invixium servers for license validation. If connecting to the internet is not possible at your premises, contact IXM Support for help.
4. For new customers, Microsoft SQL version 2014 will be installed along with IXM WEB 2.2. For existing customers, please upgrade to Microsoft SQL 2014 or higher before upgrading IXM WEB.

**IXM WEB 2.3.0.0 package**

Activation ID: IXM-D4-00-[REDACTED]

Follow these steps to install or update IXM WEB:

1. Download the IXM WEB package
2. Extract the compressed files and copy IXM WEB.exe to required server.
3. Install IXM WEB, open and create a login

New IXM WEB installations require Activation. To activate IXM WEB, first open and create a login and then follow these steps:

1. **Online Activation (Recommended)** – Requires an active internet connection.
  - Go to Left Navigation Menu → LICENSE → IXM WEB
  - Select “Online” as activation Type. Enter your Activation ID and Click “activate”.
  - Your Activation ID will be validated automatically and IXM WEB will be ready for use.
2. **Offline Activation** – For servers that are offline.
  - Go to Left Navigation Menu → LICENSE → IXM WEB
  - Select “Offline” as Activation Type. Enter your Activation ID and Click “request”.
  - Copy the details that pop up and email them to support@invixium.com.
  - Our support team will send you an email with an Activation Key to activate IXM WEB.
  - Once you receive the Activation Key, select the “Offline” as Activation Type and enter the Activation Key. Click Activate to start using IXM WEB.

Enjoy the Experience!

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

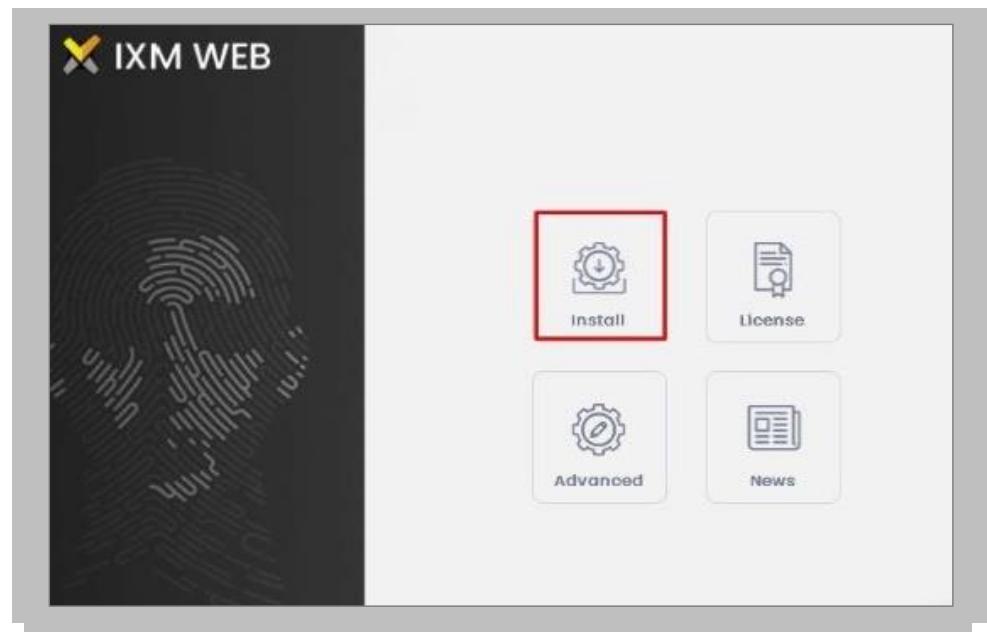
### Software Installation

#### STEP 1

#### 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

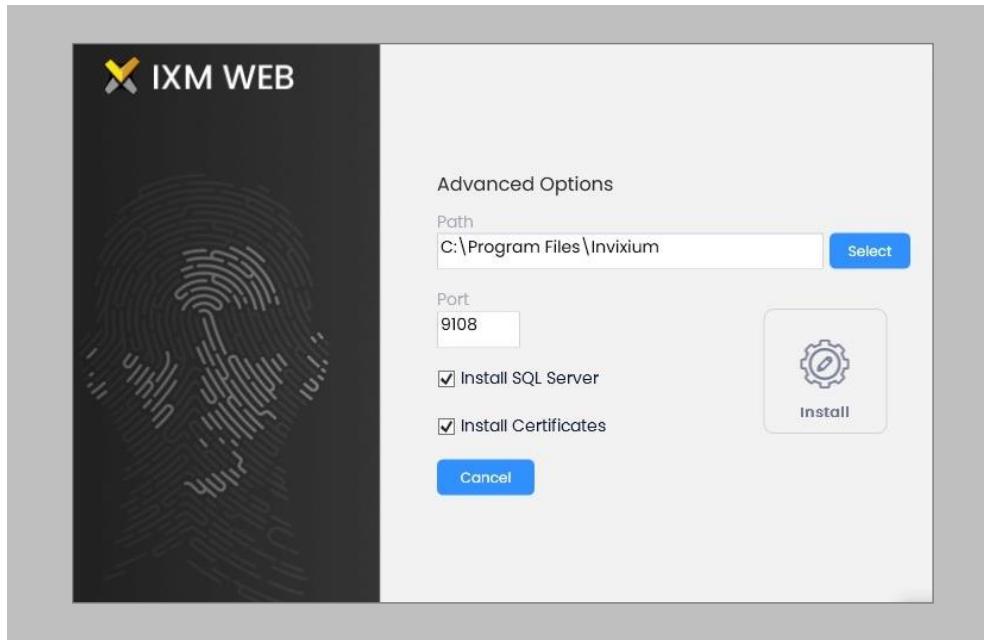


## STEP 2

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**.



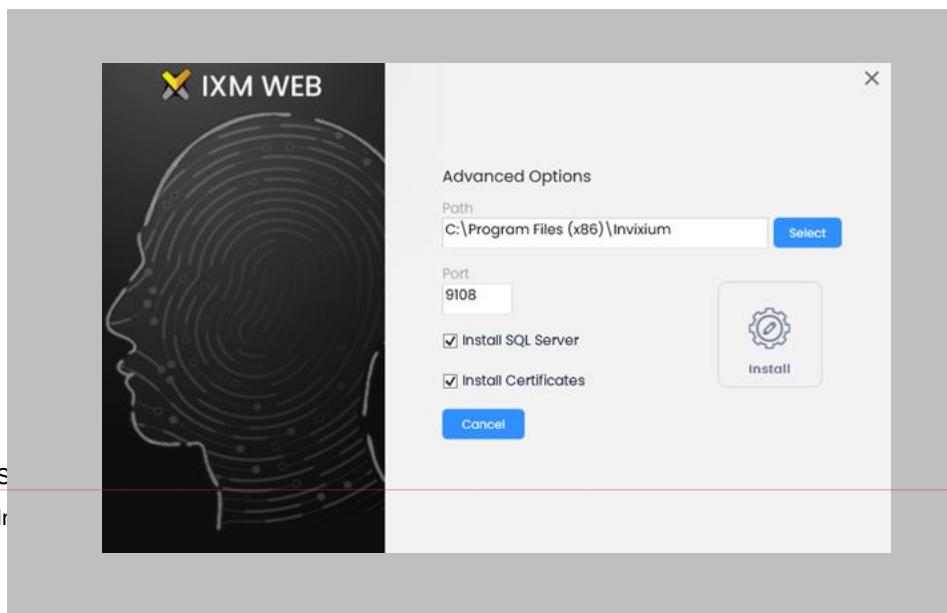
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machine where the IXM WEB package will be extracted.

- **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.

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- **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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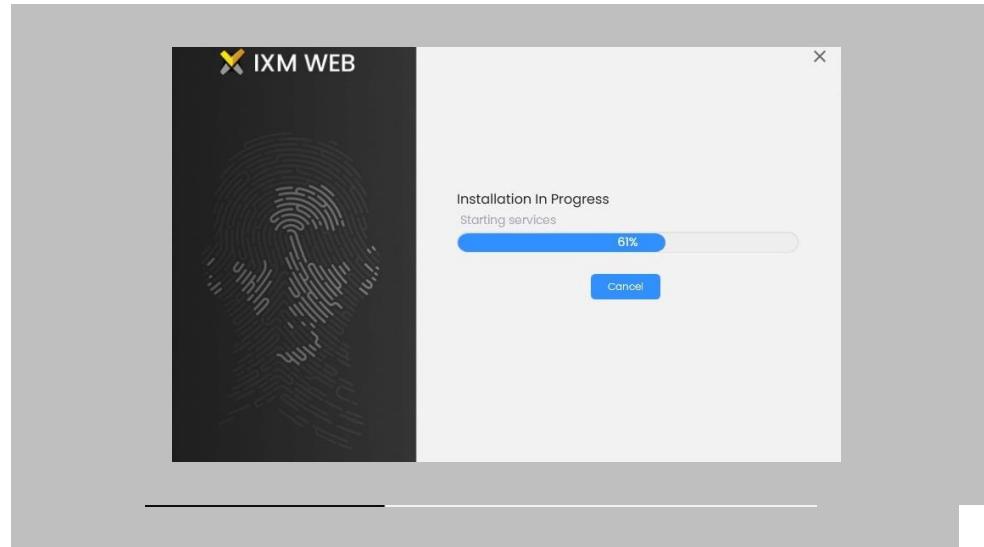


Figure 5: IXM WEB Installation

## STEP 6

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

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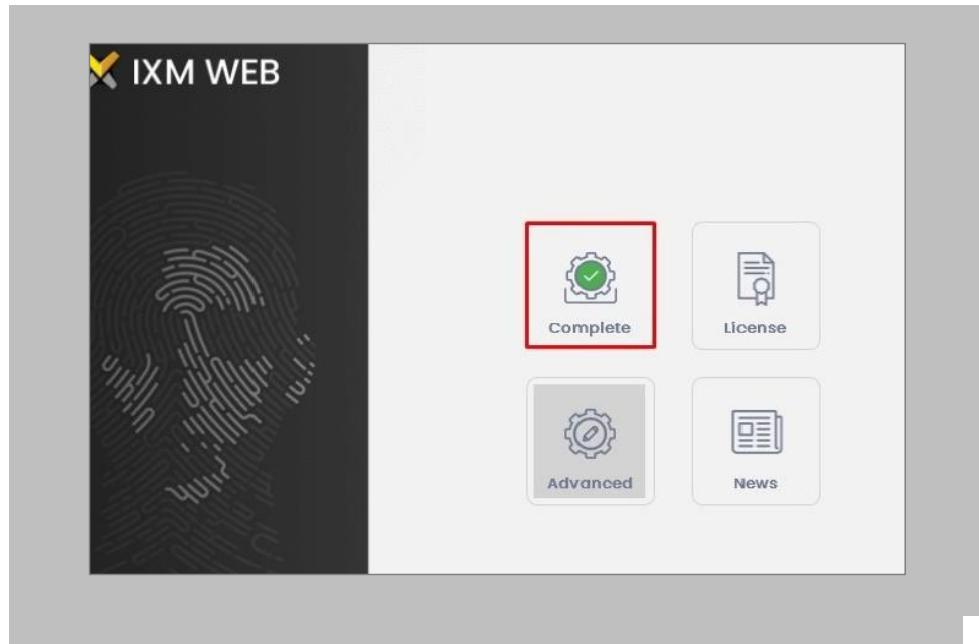


Figure 6: IXM WEB Installation Completed



## STEP 7

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



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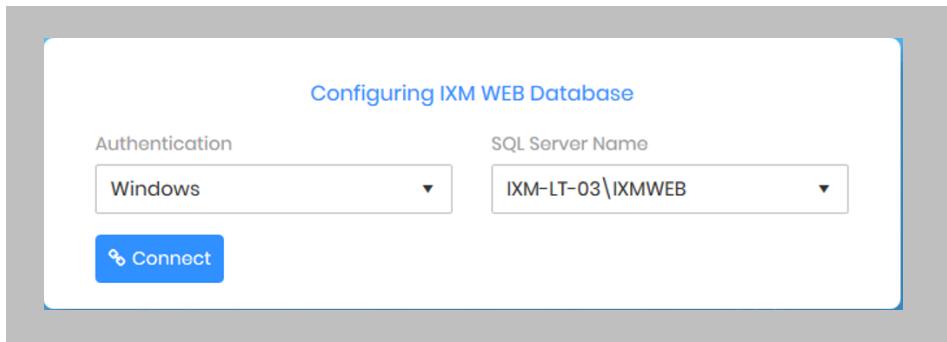
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Figure 7: IXM WEB Icon - Desktop Shortcut

## 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.



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Figure 8: IXM WEB Database Configuration

## 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.

Configuring IXM WEB Database

Authentication	SQL Server Name
SQL Server	IXM-TS25\SQLEXPRESS
SQL User Name	Password
admin	.....

**Connect**

A large, faint grayscale fingerprint watermark is visible in the background of the configuration window.

Configuring IXM WEB Database

Authentication	SQL Server Name
SQL Server	IXM-LT-03\SQL2019
SQL User Name	Password
admin	.....

**Connect**

Figure 9: SQL Database Configuration

## STEP 11



P/N XAD-TPI-003-06G



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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.



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## STEP 12

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

A screenshot of a configuration interface titled "Configuring IXM WEB Database". It shows three input fields: "Authentication" set to "Windows", "SQL Server Name" set to "IXM-LT-03\SQL2019", and "Database Name" set to "IXMDB". Below the fields are two buttons: "< Back" and a blue "> Next" button.

Figure 10: IXM WEB Database Name

## STEP 13

Click **Next**.

INVIXIUM

**Configuring IXM WEB Database**

Authentication: Windows | SQL Server Name: IXM-QA20\IXMWEB | Database Name: IXMDB

**CREATE ACCOUNT**

Admin ID	Password
Confirm Password	Email

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

**Save** | **Back**

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**STEP 14**

**STEP 11**

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:

36

P/N XAD-TPI-003-06G



- **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**.

The screenshot shows a configuration interface for an IXM WEB Database. It includes fields for Authentication (Windows), SQL Server Name (IXM-LT-03\SQL2019), Database Name (IXMDB), and a CREATE ACCOUNT section with fields for INVIXIUM ID (admin), Password (Medium strength), Confirm Password, Email (support@invixium.com), Server URI (http://192.168.0.12:9108), and Cloud Port (1255). A red box highlights the blue 'Save' button at the bottom right.

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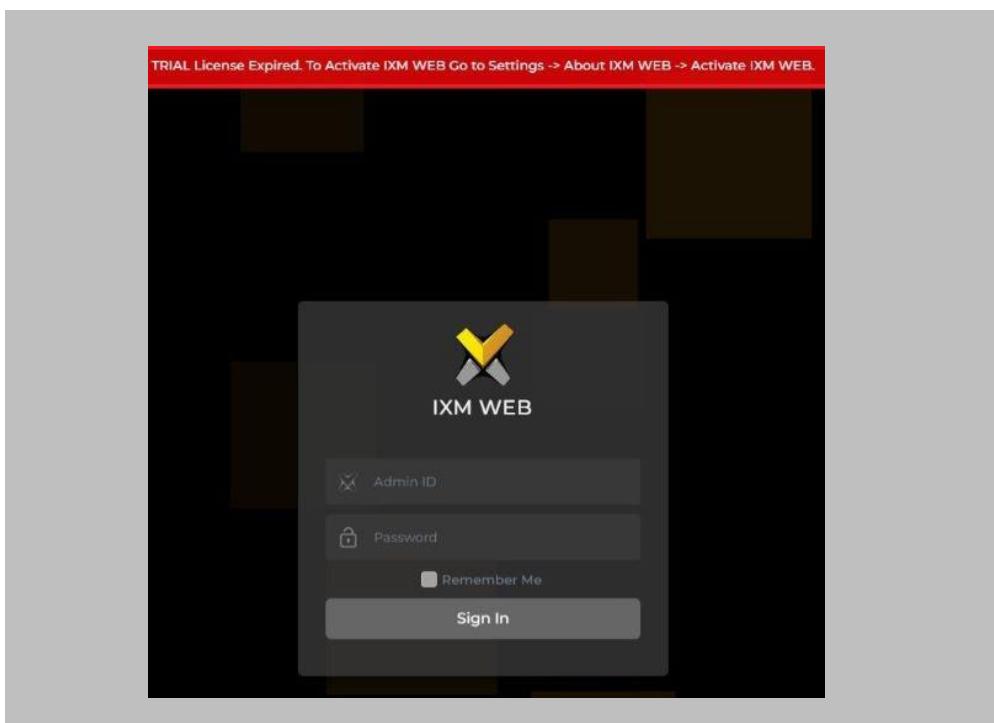
[Figure 12: Save Database Configuration](#)



## 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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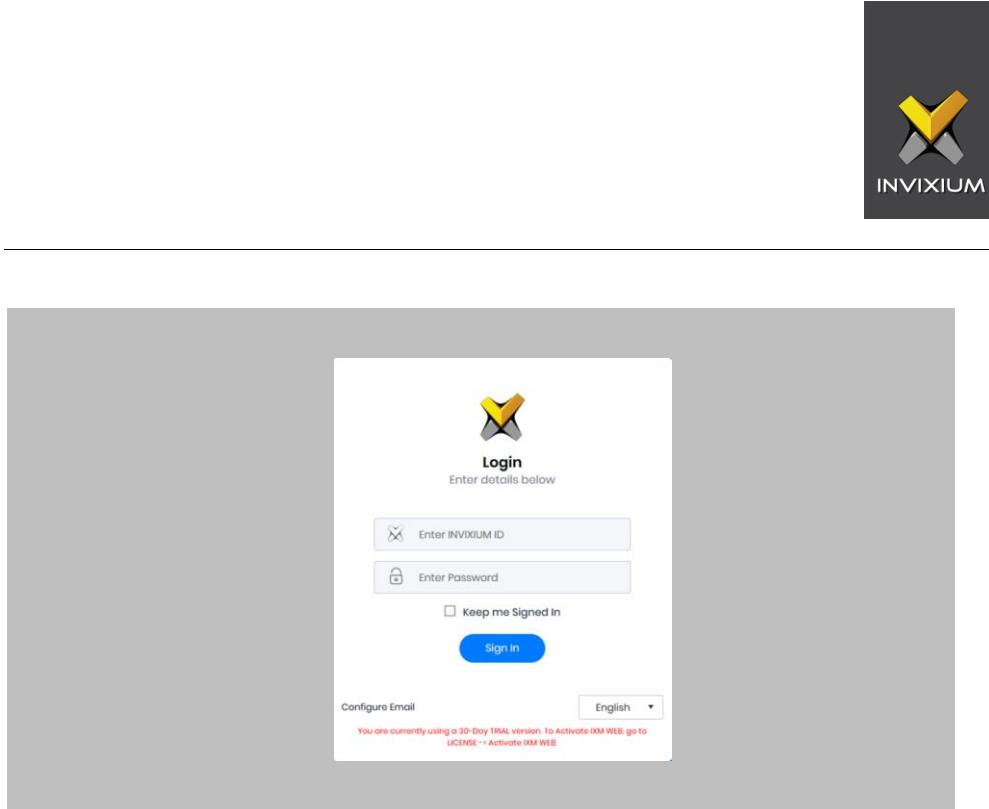


Figure 13: IXM WEB Login Page



**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 IXM WEB

Configuring 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 navigate page.

The IXM WEB interface shows the 'System Notifications' section. A yellow circle highlights the 'Device Down Notification' card. The card displays a message to 'Dear Admin,' stating 'Following devices are offline #Details#'. The message is preceded by a bold 'Device Down Notification' heading.

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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” fields.

The dialog box contains the following fields:

- Status (checkbox)
- SMTP Host: [REDACTED]
- SMTP Port: 587
- Send email messages from: [REDACTED]
- Secure Connection: StartTLS
- SMTP Login: [REDACTED]
- SMTP Password: [REDACTED]
- Send test email to: [REDACTED]
- Buttons: Test Connection, Save

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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.

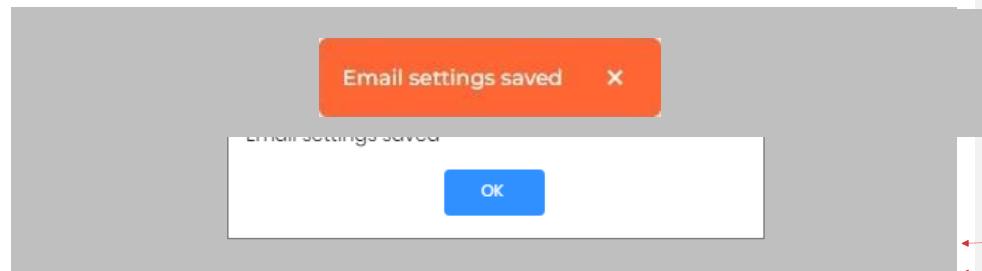


Figure 16: IXM WEB - Save Email Settings

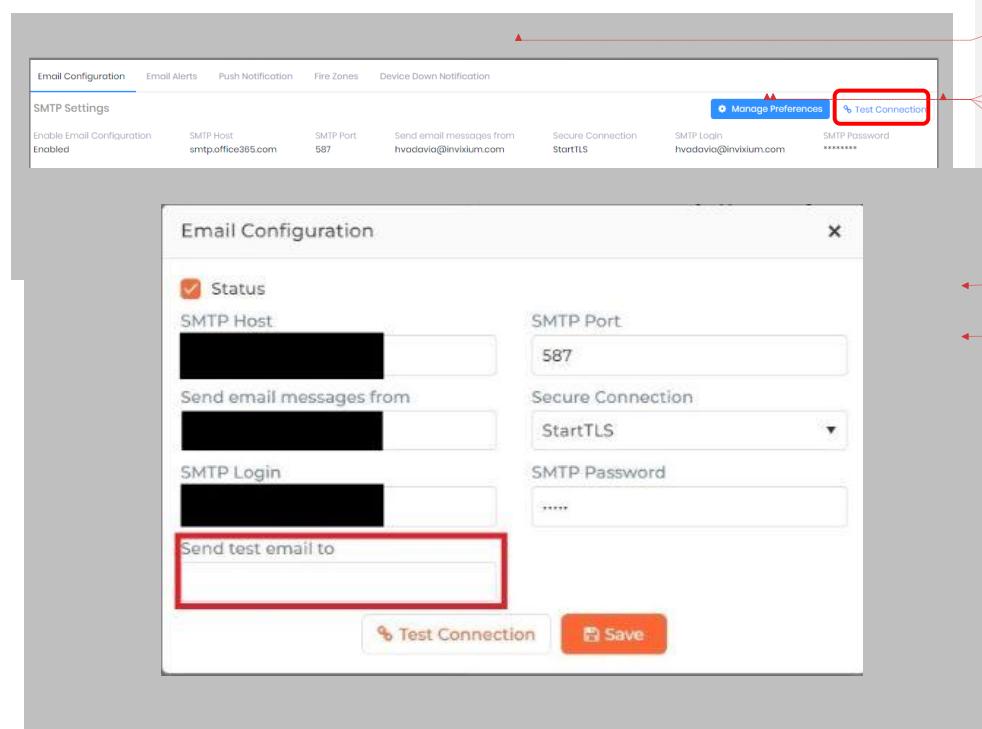




Figure 17: IXM WEB Test Connection

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

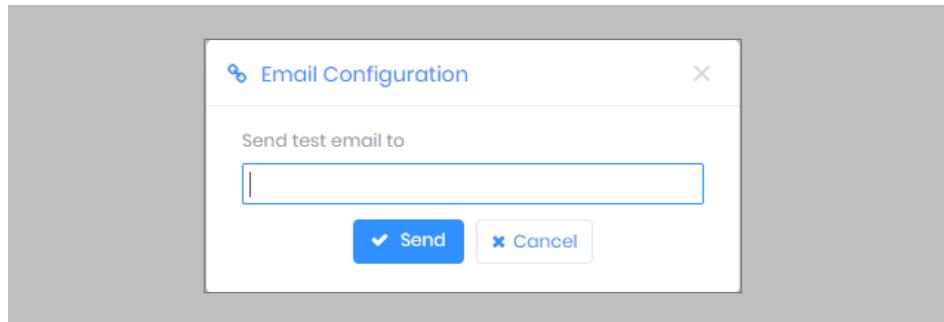
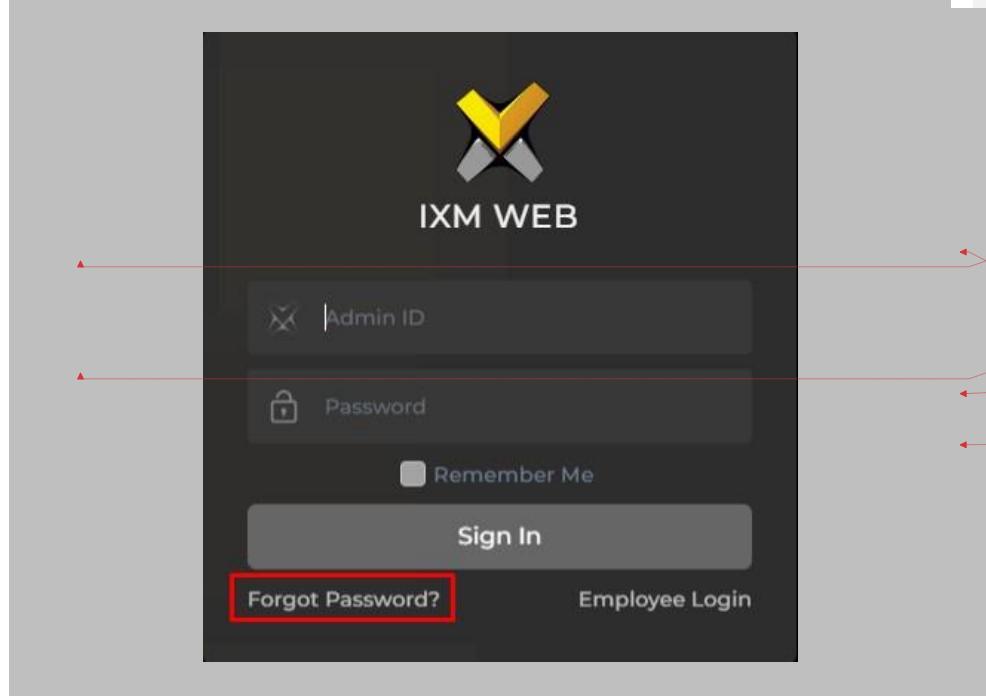


Figure 18: IXM WEB - Enter Email ID

#### STEP 4

Once [Email Configuration](#) is completed, a [Forgot 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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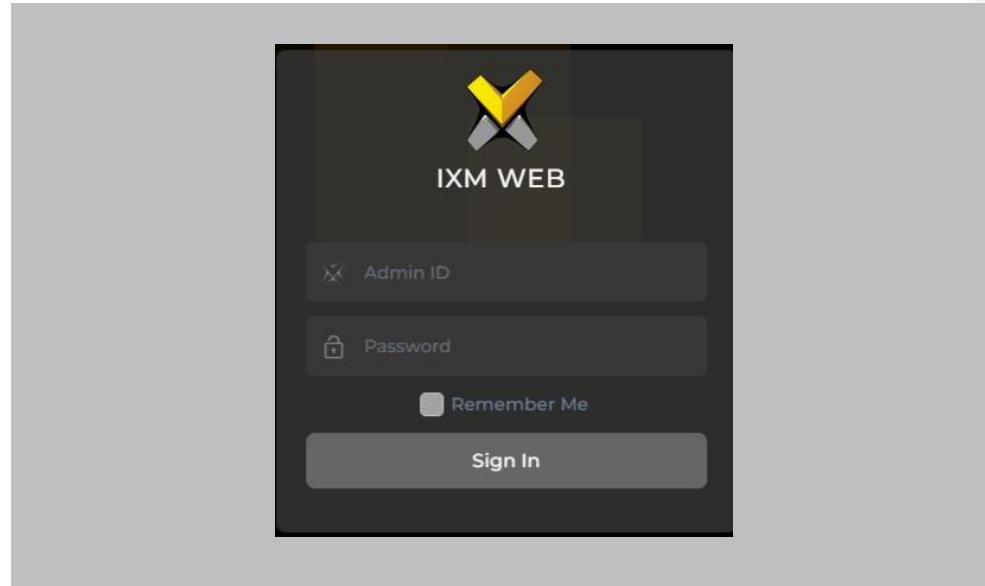
## 9.8. Software and Module Activation

### IXM WEB Activation

#### Procedure

##### STEP 1

Log into IXM WEB.



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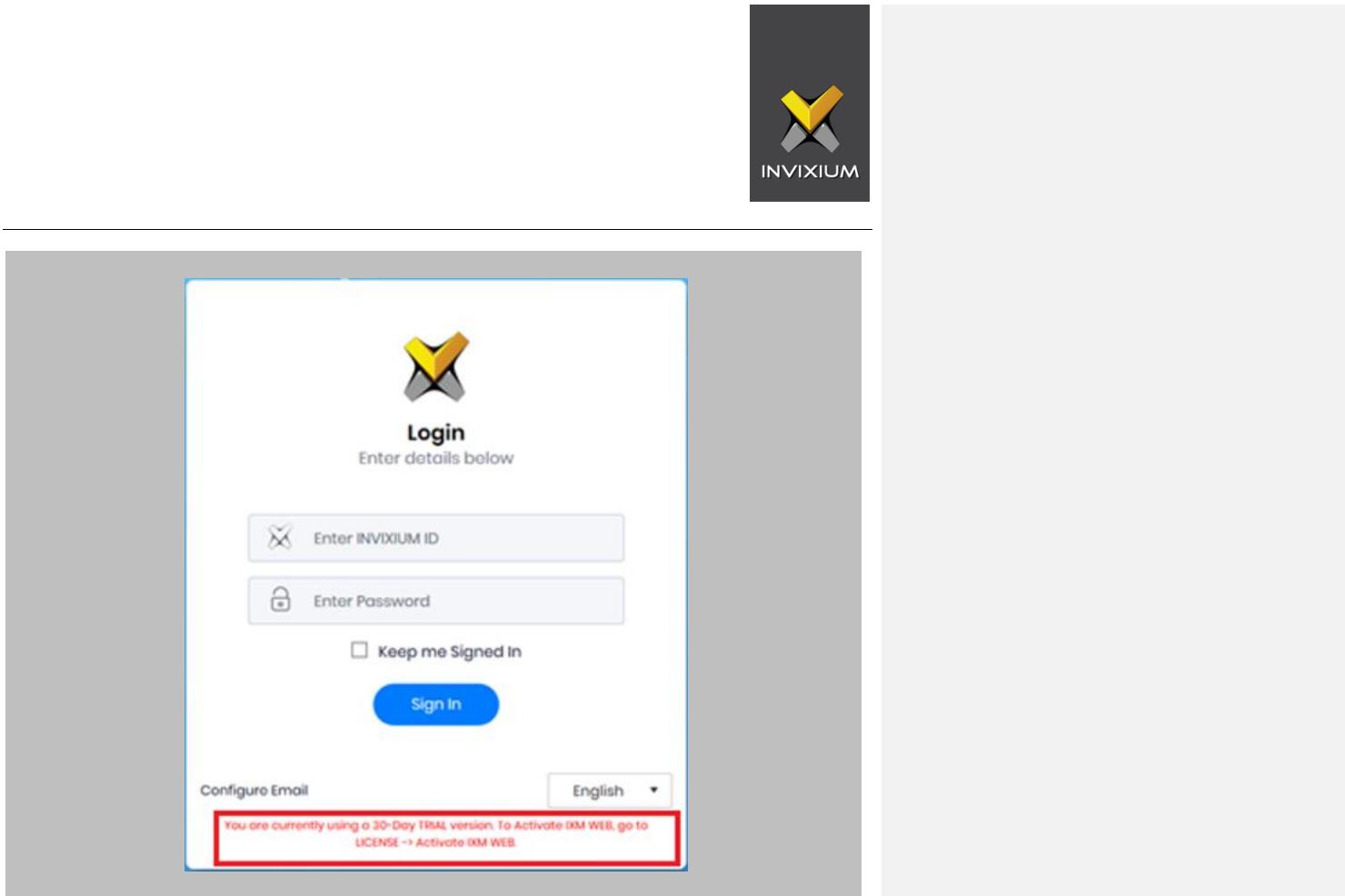


Figure 20: IXM WEB - Enter Login Credentials

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](#)

The screenshot shows the IXM WEB interface under the 'License' tab. It displays a grid of icons representing various licensed modules: IXM WEB, Convert, CREDENCE ID, Data Adaptor, IXM API, IXM Health, IXM Mobile, IXM Time, Translate, and Visitors. Below this is a section for 'IXM MOBILE FEATURES' with icons for Digital Card, Dynamic QR Card, and Face Enrollment. At the bottom is a section for 'IXM LINK INTEGRATIONS' featuring logos for Schneider Electric, Technologies, meridap, IndigoVista, inovaris, SIEMENS, Feenics, Paxton, LenelS2, and OnGuard, along with their respective sub-module names like Access Export, Access IT!, AEDS, Command Centre, Control Center, DNA Fusion, Koop, Net2, NotBox, and OnGuard.

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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#### STEP 4

**IXM Web**

Your current version of IXM Web is **Active**

Activation Date : **Expiration Date: 07/31/2025**

Activation Type  
Online

Activation ID  
Enter Key

**Activate**

Need Help? [Contact customer support](#)

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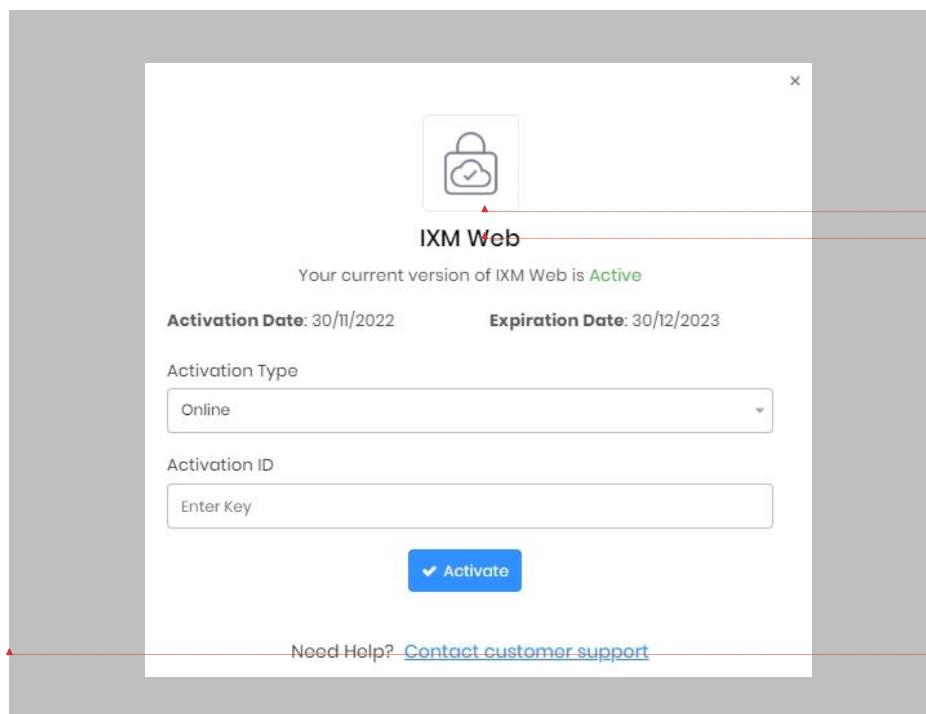


#### STEP 4

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

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The screenshot shows the IXM Web activation interface. At the top, there's a lock icon with a checkmark. Below it, the text "Your current version of IXM Web is Active". Underneath, the "Activation Date" is listed as "30/11/2022" and the "Expiration Date" as "30/12/2023". A dropdown menu for "Activation Type" is set to "Online". An input field for "Activation ID" contains the placeholder "Enter Key". A blue "Activate" button is visible. At the bottom, a link says "Need Help? [Contact customer support](#)".

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Need Help? [Contact customer support](#)

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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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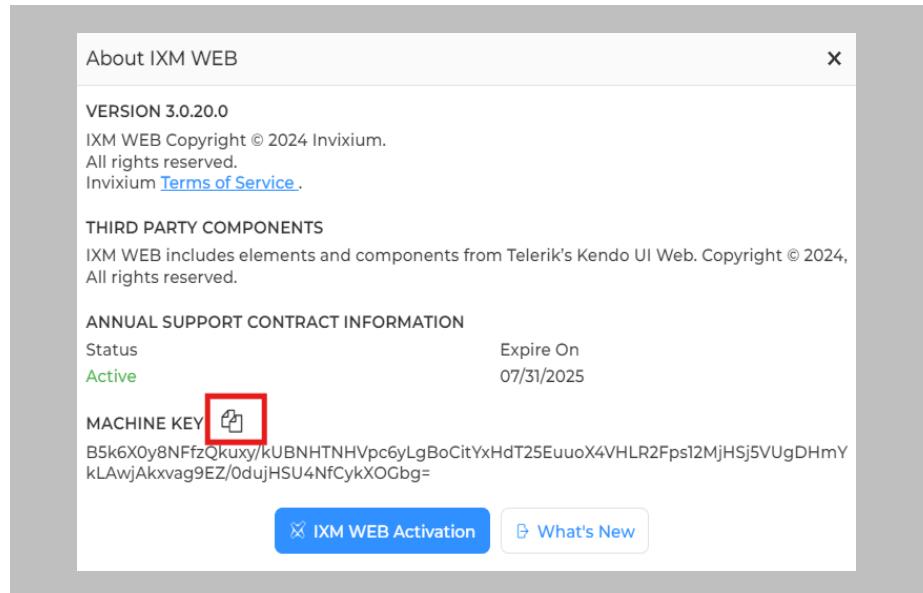


Figure 19: IXM WEB—Request Link License

[Request a License.](#)

### STEP 2

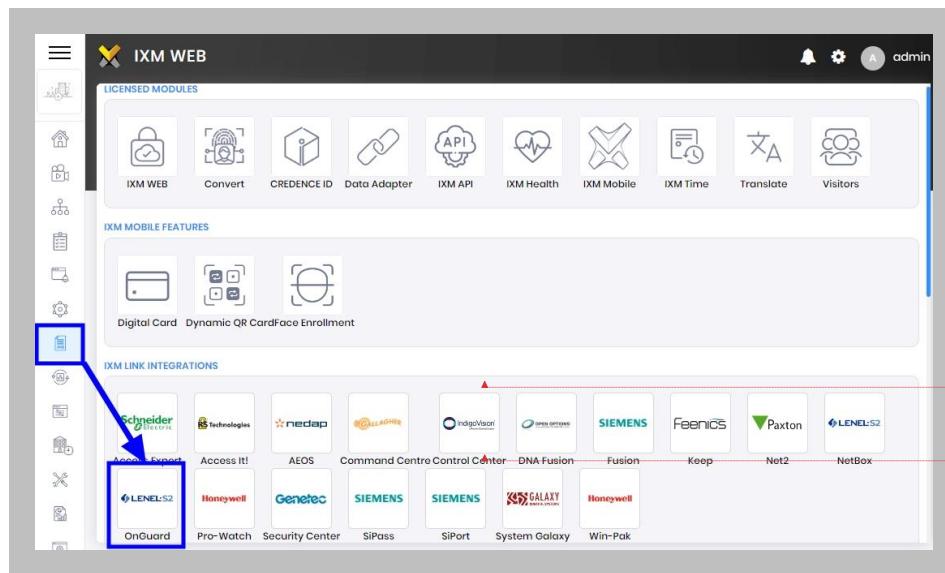
From [Home](#), expand the [Left Navigation Pane](#), and go to the [License](#) tab. Click on [OnGuard \(LenelS2\)](#).

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The screenshot shows the IXM WEB interface. At the top, there's a navigation bar with icons for Home, Devices, Reports, Settings, and Help. The main header says "IXM WEB". On the right, there's a user icon labeled "admin". Below the header, there are sections for "LICENSED MODULES" (IXM WEB, Convert, CREDENCE ID, Data Adapter, IXM API, IXM Health, IXM Mobile, IXM Time, Translate, Visitors) and "IXM MOBILE FEATURES" (Digital Card, Dynamic QR Card/face Enrollment). A sidebar on the left contains icons for Home, Devices, Reports, Settings, Help, and a search bar. The "Reports" icon is highlighted with a blue box and has a red arrow pointing to it from the bottom-left. The "IXM LINK INTEGRATIONS" section at the bottom lists various integration partners with their logos, including Schneider Electric, Technologies, nedap, Gallagher, IndigoVision, Open Systems, SIEMENS, Feenics, Paxton, Net2, and LENEL:S2. The "OnGuard" icon is also highlighted with a blue box and has a red arrow pointing to it from the bottom-left.

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

Email: [support@invixium.com](mailto:support@invixium.com)  
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 23: OnGuard License Key Email



#### STEP 4

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

Email: [support@invixium.com](mailto:support@invixium.com)  
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.

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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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A screenshot of the IXM WEB interface. At the top, there's a navigation bar with various links like DNA Fusion, Fusion Siemens, Feinds, Paxton, NetBox, OnGuard, Pro-Watch, Security Center, SiPass, SiPort, System Galaxy, and Win-Pak. Below the navigation bar, there's a modal window titled "OnGuard". The modal contains the text "Integrate Employees between IXM WEB and OnGuard by LENEL-S2 for easy management of users." Below this text is a blue-bordered input field labeled "Enter Key". Underneath the input field is a blue button with a checkmark icon and the text "Activate". At the bottom of the modal, there's a link "Need Help? [Contact customer support](#)". The entire "Enter Key" input field is highlighted with a red border. The "Activate" button is also highlighted with a red border. The "Contact customer support" link is underlined.

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Figure 21: IXM WEB – Activate LenelS2 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 1

Procedure

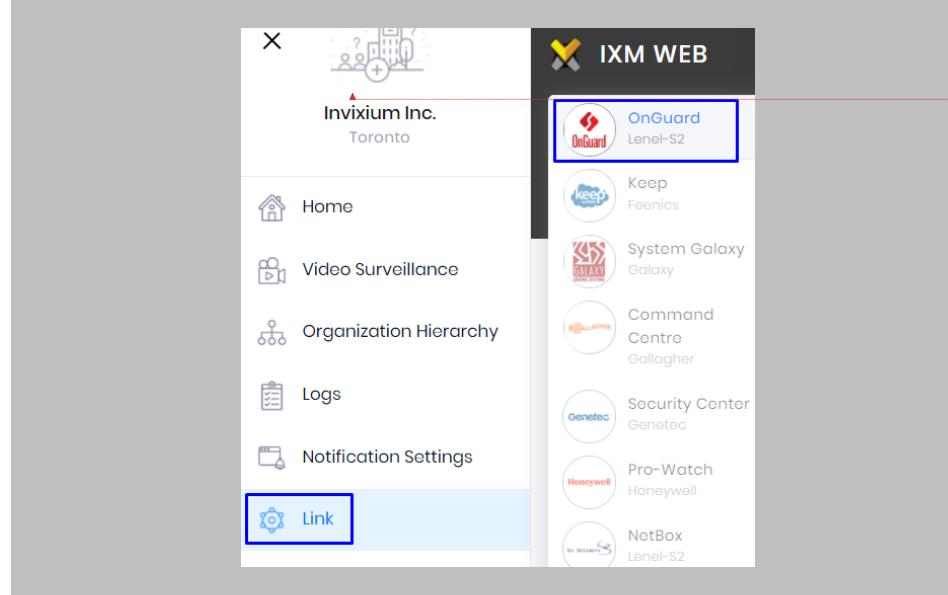


Figure 25: IXM WEB - Link Menu



## STEP 2

Toggle the **Status** switch to enable.

The screenshot shows the OnGuard Control Panel interface. In the top left corner, there is a small logo for LENE-S2. The main title is "OnGuard Control Panel". Below the title, there are several configuration fields:

- Mode:** A dropdown menu currently set to "Event Subscription".
- WEB API URL:** An input field containing the URL "https://192.168.1.207:8080/api/access/onguard/openaccess/".
- User:** An input field containing "IXLINK".
- Password:** An input field containing ".....".
- Web Event Bridge URL:** An input field containing the URL "https://192.168.1.207:8080/api/access/onguard/openaccess/eventbridge".
- Map Access Level to User Group:** A dropdown menu set to "Yes".
- Employee Group:** A dropdown menu set to "Select value".
- Directory:** A dropdown menu set to "<Internal>".
- PIN Custom Field Name:** An input field containing "PINNUM".
- Auto Transfer:** A dropdown menu set to "No".

At the bottom of the form, there are two buttons: "Apply" and "Reset".

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

## 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.

## 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/>



#### 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.

No: 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/>

Map Access Level to User Group

Yes

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 configuration interface titled 'Map Access Level to User Group'. A dropdown menu is open, showing the option 'Yes' selected.

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 configuration interface titled 'Auto Transfer'. A dropdown menu is open, showing the option 'No' selected.

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 the IXM WEB interface. It shows two dropdown menus: "Auto Transfer" set to "Yes" and "Employee Group" set to "All Employees".

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:

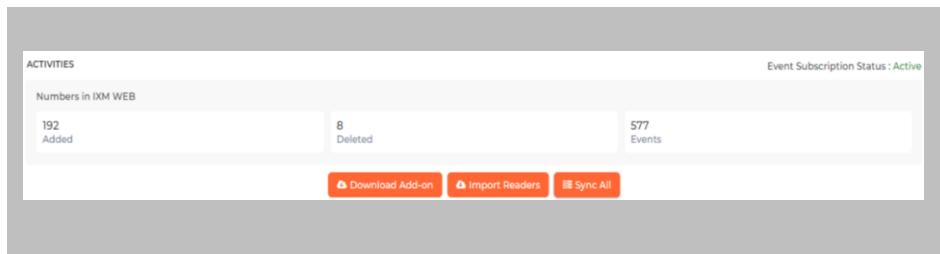


Figure 31: IXM WEB – Sync Activities Event Subscription Mode

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 (Lenel-S2)** icon.

Toggle the **Status** switch to enable.

A screenshot of the LenelS2 OnGuard Control Panel. The interface has a header 'OnGuard Control Panel' and a sub-header 'IXM WEB'. Below this, there's a section titled 'Mode' with a dropdown set to 'API'. Underneath, there's a 'WEB API URL' field containing 'https://192.168.1.207:8080/api/access/onguard/openaccess/'. To the right of this are fields for 'User' (set to 'sa') and 'Password'. Below the URL field are 'Interval (sec)' set to '30', 'Map Access Level to User Group' set to 'No', and 'Auto Transfer' set to 'No'. Further down are sections for 'Employee Group' (dropdown 'Select value'), 'Directory' (dropdown 'Internal'), and 'PIN Custom Field Name' (text input 'PINNUM'). At the bottom are 'Apply' and 'Reset' buttons.

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.

#### 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/>

#### 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.

## 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.

A screenshot of a dropdown menu titled "Map Access Level to User Group". The menu has two options: "Yes" and "No". The "Yes" option is highlighted with a blue selection bar.

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.

A screenshot of a dropdown menu titled "Auto Transfer". The menu has two options: "Yes" and "No". The "No" option is highlighted with a blue selection bar.

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-based configuration interface. It shows two dropdown menus side-by-side. The left dropdown is labeled 'Auto Transfer' and has the option 'Yes' selected. The right dropdown is labeled 'Employee Group' and has the option 'All Employees' selected. Both dropdowns have a small downward arrow indicating they are dropdown menus.

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:

A screenshot of the IXM WEB interface showing the 'Sync Activities' section. It displays statistics: 2 Added, 3 Updated, 0 Deleted. It also shows sync times: Last run at 25 Jun, 2024 3:52 PM and Next run at 25 Jun, 2024 3:53 PM. Below the stats are three buttons: 'Download Add-on', 'Sync Now', and 'Sync All'.

ACTIVITIES		
Numbers in IXM WEB		
2 Added	3 Updated	0 Deleted
Times		
25 Jun, 2024 3:52 PM Last run at		
25 Jun, 2024 3:53 PM Next run at		
<a href="#">Download Add-on</a> <a href="#">Sync Now</a> <a href="#">Sync All</a>		

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 4412

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.

### 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.

A screenshot of the IXM WEB System Users page. The page has a header with tabs for 'System' and 'System Users'. Below the header is a search bar and a table with columns: INVIXIUM ID, Active, Administrator, API User, and Email. Two rows are visible: one for 'admin' with email 'gopanya@invixium.com' and another for 'admin@invixium.com' with email 'gopanya@invixium.com'. At the bottom of the table are buttons for 'Add New' and 'Delete'. Below the table are navigation buttons for 'Page' and '1 of 1'.

A screenshot of the IXM WEB System Users page. The page has a header with the 'IXM WEB' logo and a search bar. On the left is a sidebar with various menu items like Home, Video Surveillance, Organization Hierarchy, Logs, etc., with 'System' selected. The main area shows a table with one row for 'admin' with email 'gopanya@invixium.com'. At the bottom are buttons for 'Add New' and 'Delete'. Below the table are navigation buttons for 'Page' and '1 of 1'.

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[Figure 31: IXM WEB - Create API User](#)



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## STEP 2

Click Add New API User.

A screenshot of the IXM WEB interface titled 'System Users'. The page shows a table with one row of data: INVIXIUM ID 'admin', Active 'Yes', Administrator 'Yes', API User 'No', and Email 'epandya@invixiu.com'. A blue box highlights the 'API User' column header. At the top right, there are 'Add New' and 'Delete' buttons, with 'Add New' being highlighted. Below the table is a pagination bar showing '1 to 1 of 1 System Users'.

Figure 32: IXM WEB - [Create API User](#)



## STEP 2

Click **Add New**.

A screenshot of a web-based user management interface. The top navigation bar includes links for 'System', 'System Users', 'ESS Portal Roles', and 'Password Policy'. A search bar is present. The main table lists two users: 'kiran.local@appliance' and 'admin'. The columns include 'Login ID', 'Email', 'Active', 'Administrator', 'User Type', and 'Login Type'. An 'Add New' button is located in the top right corner of the table area. The bottom of the screen shows pagination controls and a message '1 - 2 Of 2 Items'.

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Figure 34: IXM WEB—Add New API User

Creating an API user requires the following details:

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

## STEP 3

• User rights of enrollment Enter the Invixium 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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The screenshot shows a form titled "User Rights". It includes fields for "User Type" (set to "API"), "Login ID" (set to "IXMAPI"), "Email" (set to "hvadavia@ixm.local"), and "Password" and "Confirm Password" both containing ".....". A checkbox labeled "Status" is checked. A red "Next" button is at the bottom right.

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"/>

Figure 36: Enrollment and Employee Access Rights

The screenshot shows a "System Users" form for "INVIXIUM ID: Enroll". It includes fields for "Password" (containing "....."), "Confirm Password" (containing "....."), "Email" (containing "....."), and a "Status" checkbox which is checked. At the top right, there are four buttons: "None", "View", "Edit", and two "All" buttons, with the second "All" button being highlighted with a blue box. Below the form is a "Save" button and a "Cancel" button.

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Figure 34: IXM WEB

New API User

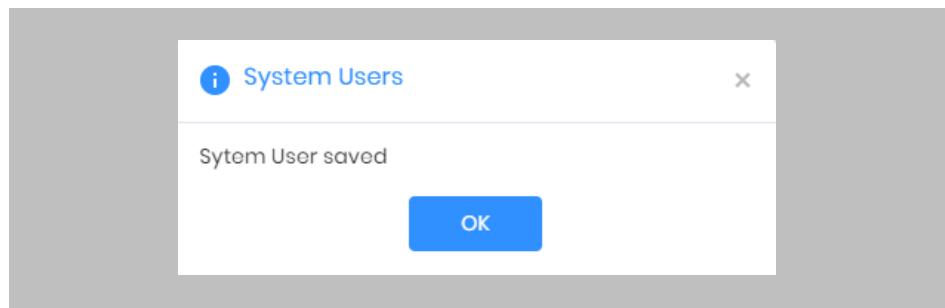
STEP 5

Click Save.

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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**.

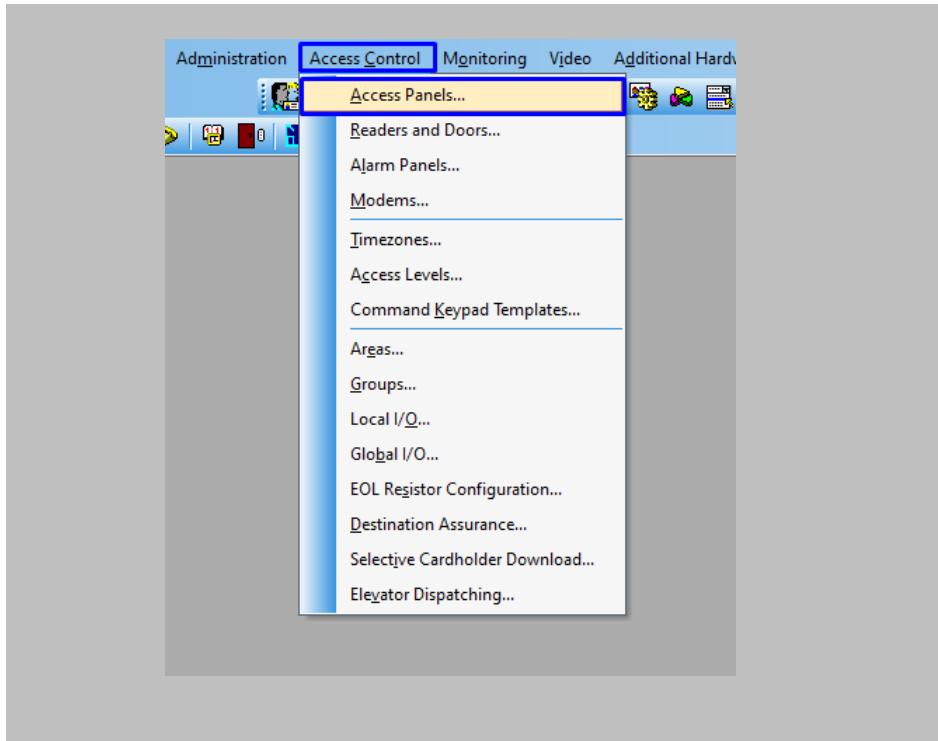
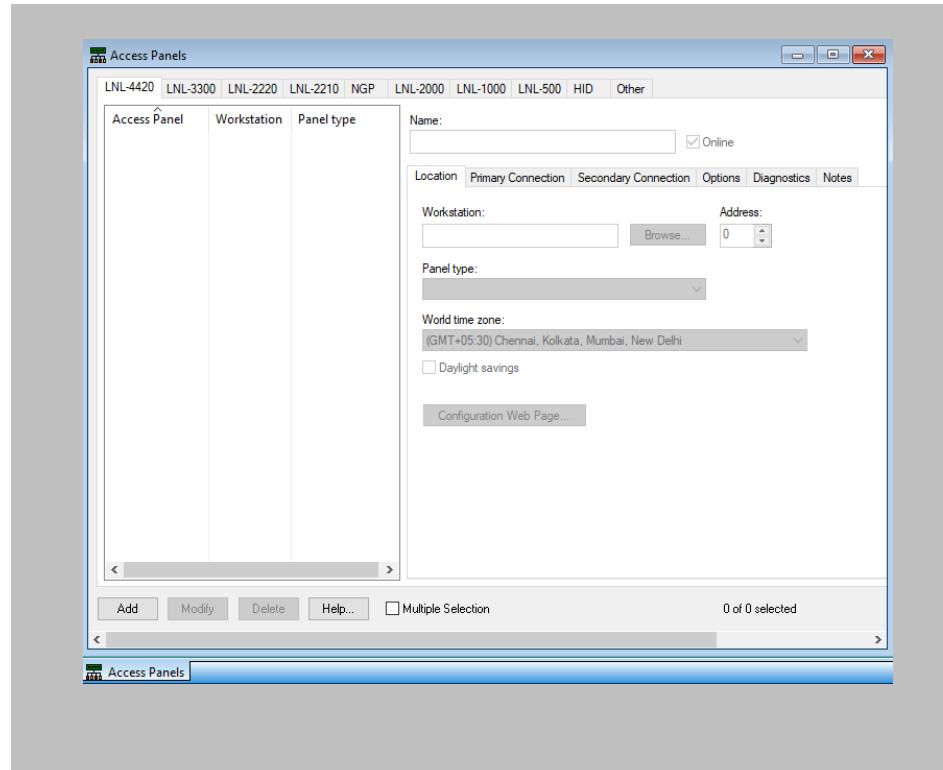


Figure 34: OnGuard - Access Panel



## STEP 2

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



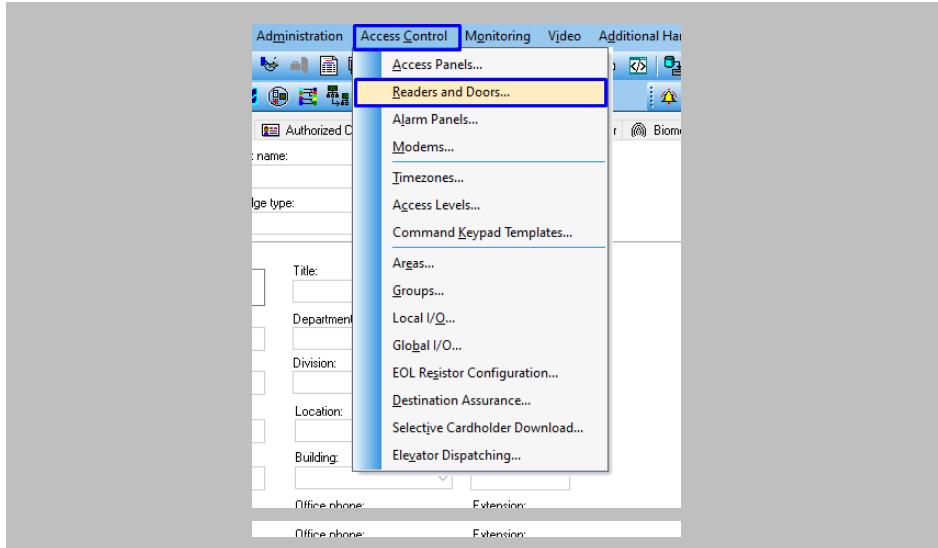
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Figure 35: OnGuard - Add Access Panel



### STEP 3

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

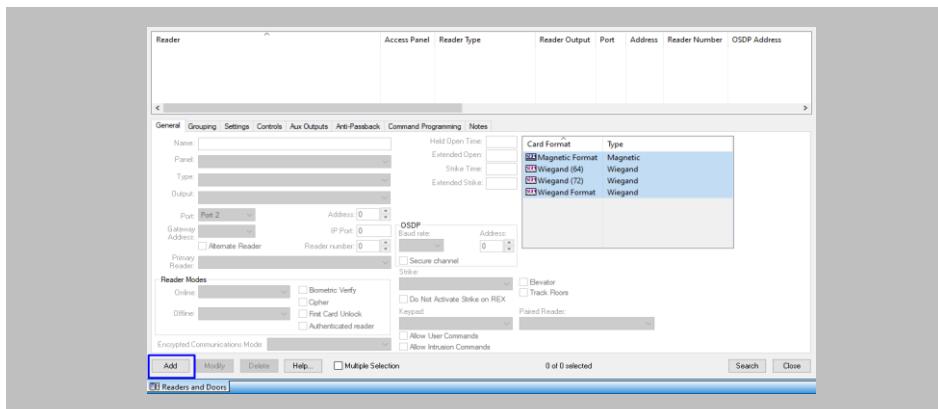


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Figure 36: OnGuard - Readers and Doors

### STEP 4

Click on the **Add** button.



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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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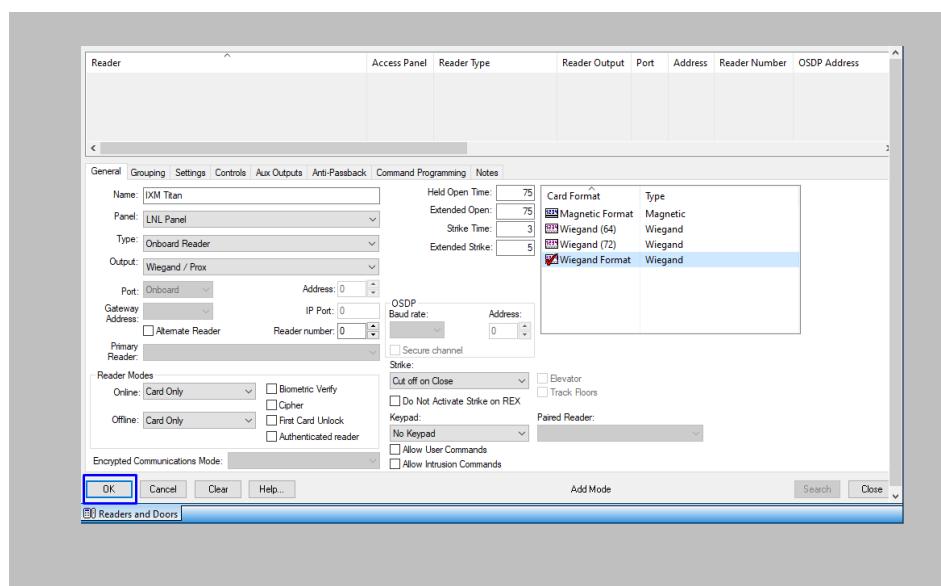


Figure 38: OnGuard - Reader Configuration

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

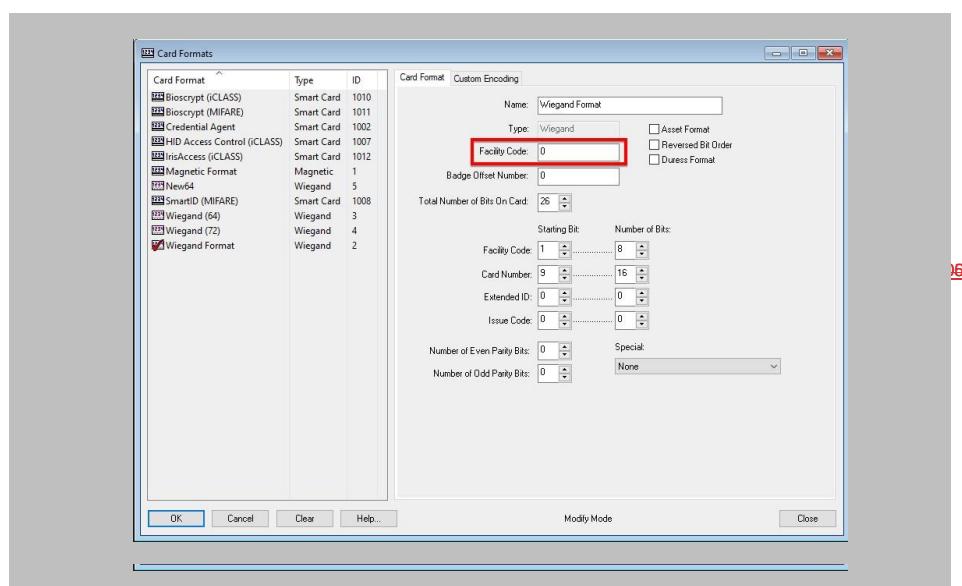




Figure 39: OnGuard – Facility Code

STEP 6

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

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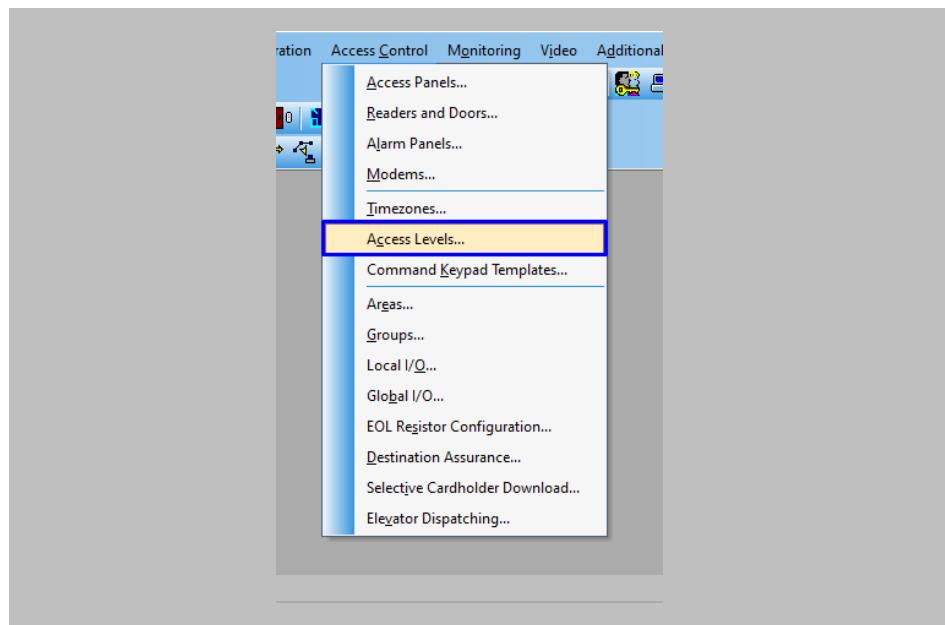


Figure 40: OnGuard - Access Level



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## STEP 7

Click on the **Add** button.

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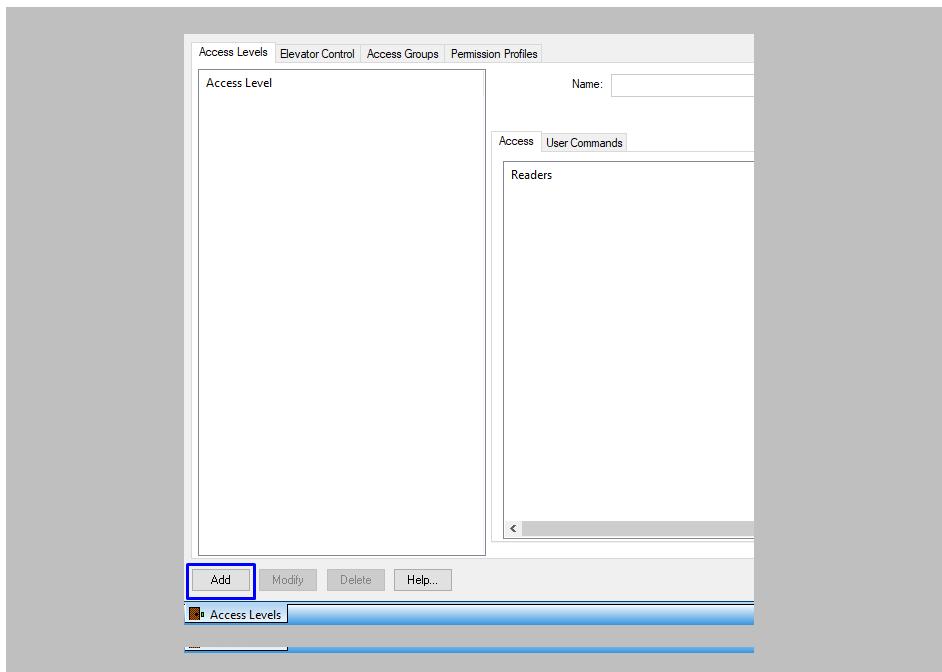


Figure 41: OnGuard - Add New Access Level



## STEP 8

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

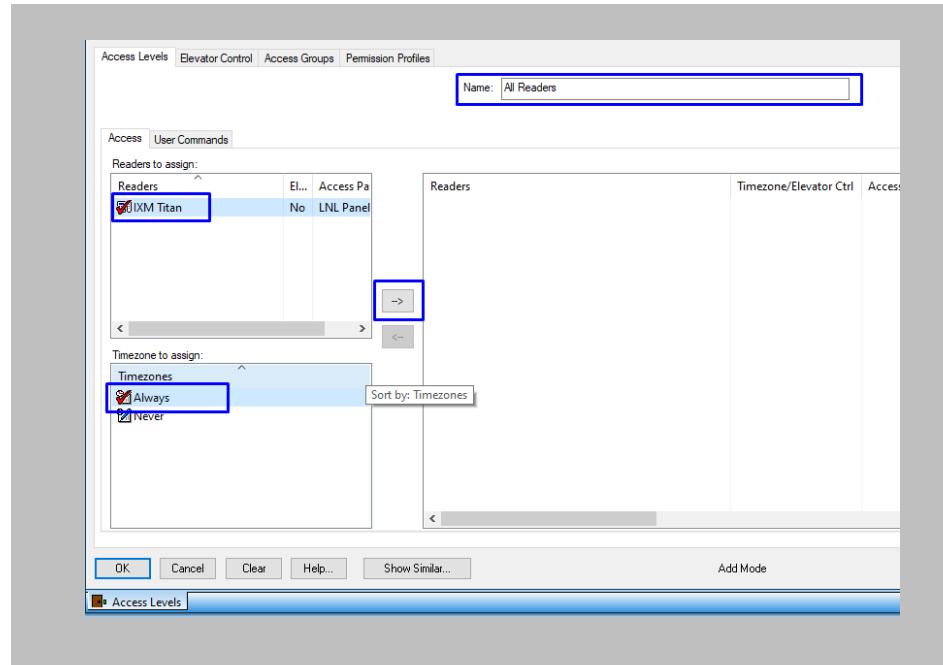


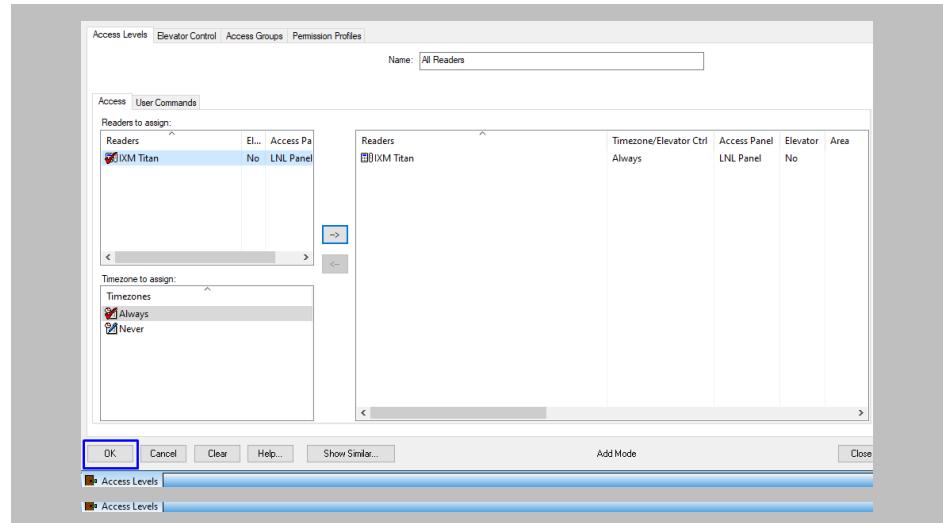
Figure 42: OnGuard - Add Reader to Access Level



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## STEP 9

Click **OK**.



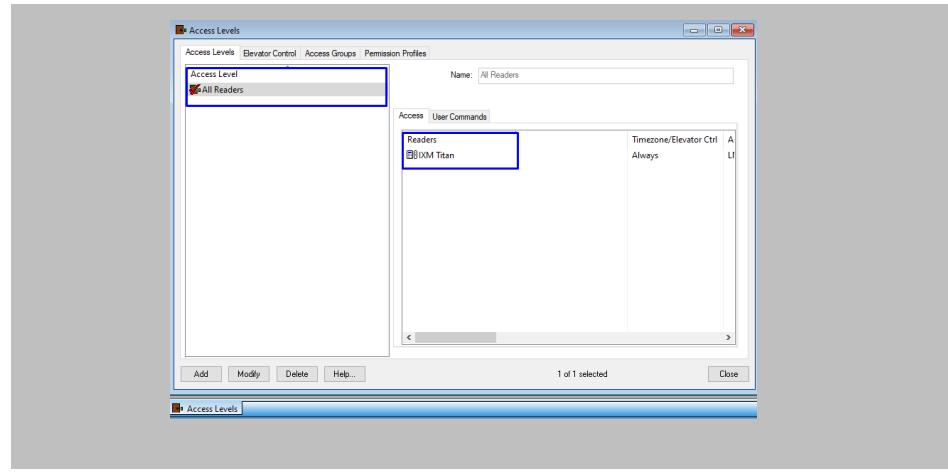
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Figure 43: OnGuard - Access Level Configuration



## RESULT

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



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Figure 44: OnGuard - New Access Level





## 15.12. -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.

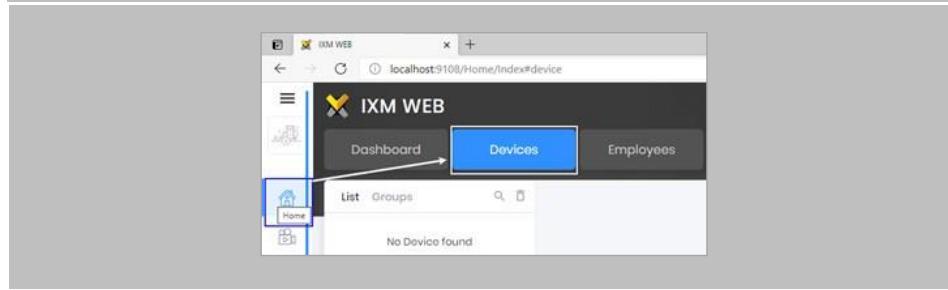
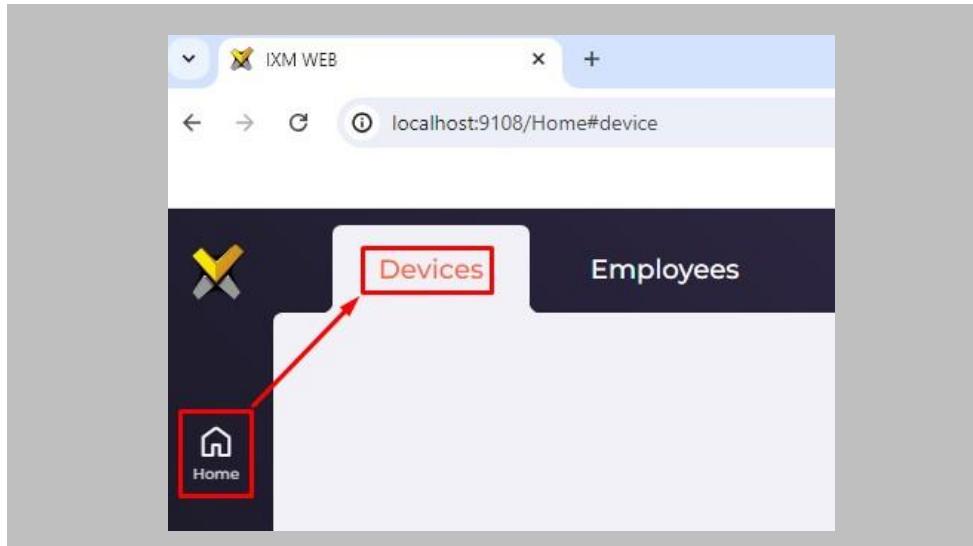


Figure 45: IXM WEB - Devices Tab



## 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.

The screenshot shows the 'Discovery options' page of the IXM WEB interface. It includes fields for Start IP (192), End IP (168), Port (9734), and a 'Search on SSL' checkbox. There are three tabs: 'Auto Discover' (selected), 'Ethernet' (Discover Devices using IP), and 'Serial' (Discover Devices on Serial Network). Below these tabs is a table titled 'SELECT DEVICE TO REGISTER [DISCOVERED DEVICES : 1]' showing one device entry: 'Titan' with IP Address 192.168.1.123 and MAC ID 7C:BB:22:99:44:11.

The screenshot shows the 'Add New Device' dialog box. It has three steps: 'Discover' (selected), 'Register', and 'Summary'. Under 'DISCOVERY OPTIONS', the 'Ethernet' radio button is selected. The 'Start IP' field contains '192' and the 'Port' field contains '9734'. A 'Search' button is visible. Below this is a table titled 'SELECT DEVICE TO REGISTER [DISCOVERED DEVICES : 1]' showing the same device entry as the previous screenshot: 'Titan' with IP Address 192.168.1.123 and MAC ID 7C:BB:22:99:44:11. The number '95' is circled in yellow at the bottom left of the dialog box. The URL 'P/N XAD-TPI-003-06G' is displayed at the bottom right.

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Figure 50: IXM WEB – Search Device Using IP Address



[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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Add New Device

Discover Register Summary

GENERAL INFORMATION

Name: TS TITAN FPU5 - EKIT	Device ID: 0	Device Group: 1 item(s) selected	Device Mode: Both
----------------------------	--------------	----------------------------------	-------------------

NETWORK INFORMATION

DHCP: checked	IP Address: 192.168.2.145	Port: 9734	Subnet Mask: 255.255.255.0	Gateway: 192.168.2.1
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#### STEP 4

Once the device has successfully been registered, click Done.

Device Registered

Device Information

Device Name: Titan	Model Name: TITAN FPU2	Serial Number: 8822994411	Firmware Version: 02.007.005.000
Transaction capacity: 1,000,000	User Capacity (tN): 100,000	User Capacity (tL): 500,000	

Network Information

Comm Mode: Ethernet	IP Mode: DHCP	IP Address: 192.168.1.123	Subnet Mask: 255.255.255.0
Gateway: 192.168.1.1	MAC ID: 7C:8B:22:99:44:11	DNS: 8.8.8.8	

Figure 47: IXM WEB - Register Device Registration Complete

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P/N XAD-TPI-003-06G



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#### STEP 4

[Click Register.](#)

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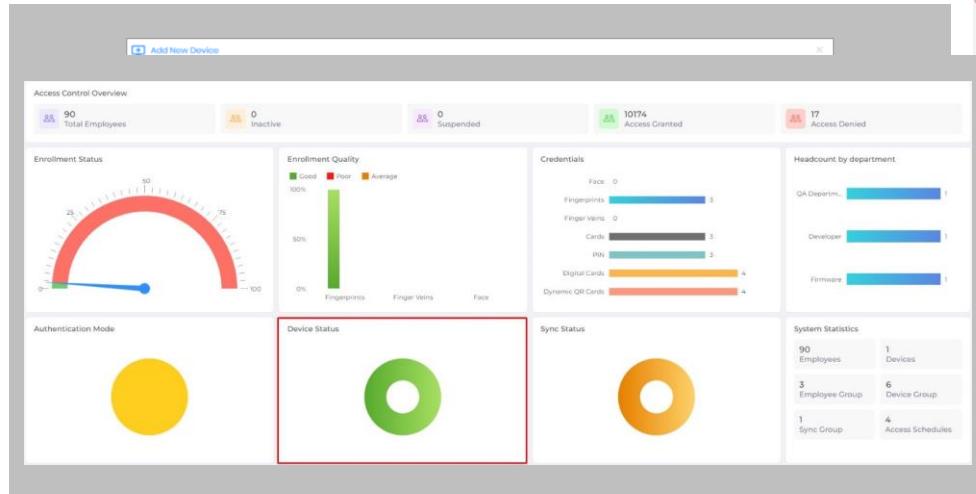
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[P/N XAD-TPI-003-06G](#)



## STEP 5

Once the device has successfully been registered, click Done.



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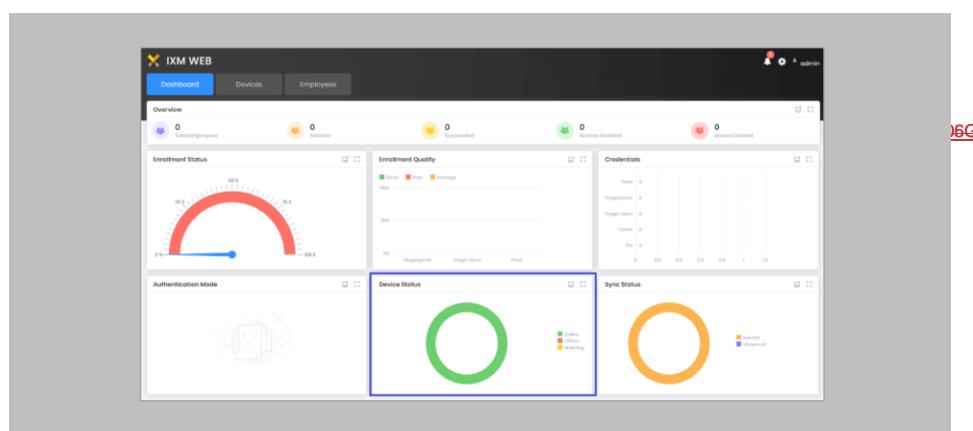
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Figure 48: IXM WEB - Device Registration Complete

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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Figure 49: IXM WEB - Dashboard, Device Status

404

P/N XAD-TPI-003-06G



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402

P/N XAD-TPI-003-06G



## 16.13. Adding Invixium Device to a Device Group

**i** 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.

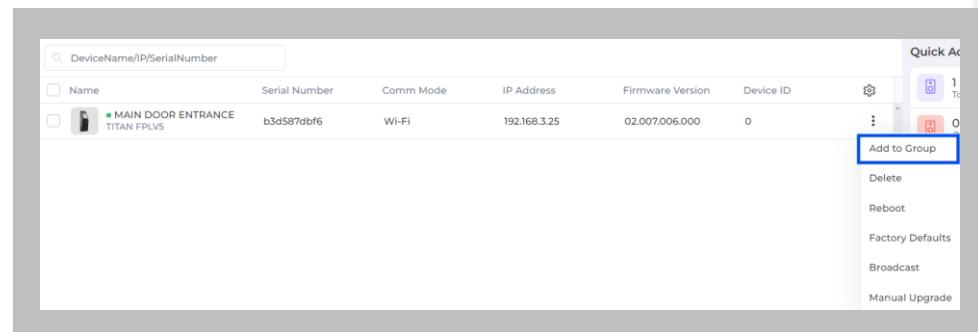
**METHOD 1:** Go to [Devices](#) → click on [Manage Device Group - Groups](#).

Add the device by clicking vertical ellipses button offrom 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](#).





A screenshot of the IXM WEB application interface. At the top, there's a navigation bar with tabs for 'Dashboard', 'Devices' (which is selected and highlighted in blue), and 'Employees'. Below the navigation, there's a sidebar titled 'Groups' with three entries: 'Default' (0 devices), '1st Floor' (0 devices, which is currently selected and highlighted in pink), and '2nd Floor' (0 devices). The main content area shows a list titled 'Added Devices (0)' with a search bar above it. On the right side, there's a panel titled 'Add Devices to Group' with a search bar and a list containing one item: 'TITAN PRO TITAN VH Entrance' (1 device). A small blue button labeled 'Message' is visible at the bottom left of the main content area.

Figure 50: IXM WEB - Assign Device Group

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i

405

P/N XAD-TPI-003-06G



## Assign Wiegand to Invixium Readers

**i** Note: Face and finger will always give a Wiegand output based on the initial card that was synced from OnGuard 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.

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### STEP 2

Navigate to the Access Control tab.

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The screenshot shows the IXM WEB interface with the Devices tab selected. A specific device, A048499655, is highlighted with a red box. The Access Control tab is also highlighted with a red box. Device information on the right includes Transactions (2), Authentication types (Face Recognition, Fingerprint), Face License (Active), and Face Algo Version (3.1.0).

The screenshot shows the IXM WEB interface with the Devices tab selected. A specific device, f0db405133, is highlighted with a blue box. The Access Control tab is highlighted with a blue box. Device information on the right includes Device ID (f0db405133), Transactions (66), Authentication types (Face Recognition, Fingerprint), and Device Category (Enterprise Access).

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.

Wiegand Output

EVENTS			
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	Interval	40	2000
<b>APPLY</b> <b>RESET</b>			

Wiegand Output

EVENTS			
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	Interval	40	2000
<b>APPLY</b> <b>RESET</b>			



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](#):

Wiegand	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](#).

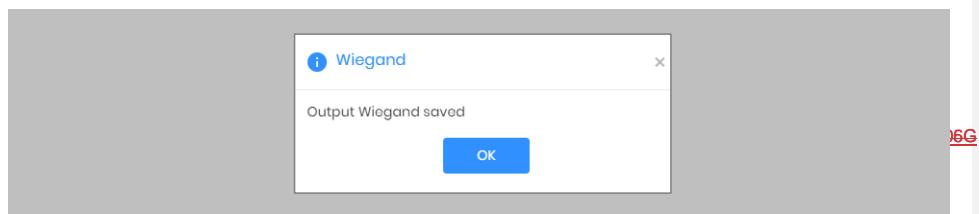
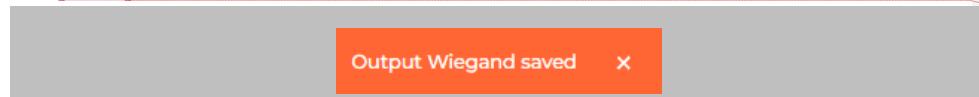




Figure 53: IXM WEB - Save Output Wiegand

#### 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**.

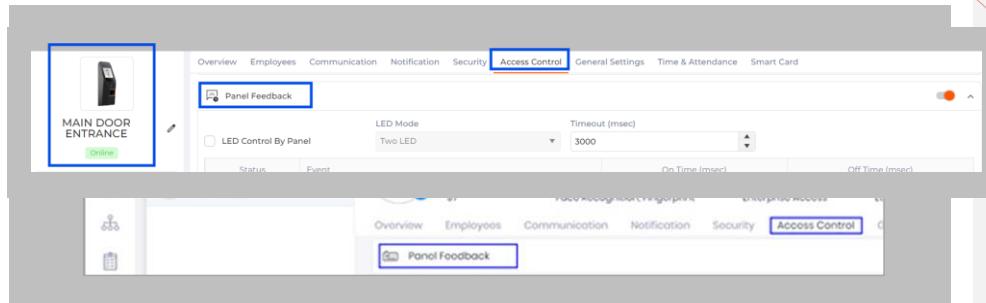


Figure 54: IXM WEB - Panel Feedback

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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

<input checked="" type="checkbox"/> LED Control By Panel	LED Mode One LED	Timeout (msec) 3000																																
<input type="checkbox"/> Enable Pulse Processing	LED Driving Mode Low	Pulse Processing Time (msec) 500																																
<table border="1"><thead><tr><th>Status</th><th>Event</th><th>On Time (msec)</th><th>Off Time (msec)</th></tr></thead><tbody><tr><td><input type="checkbox"/></td><td>Authentication Success</td><td>100</td><td>100</td></tr><tr><td><input type="checkbox"/></td><td>Authentication Fail</td><td>200</td><td>200</td></tr><tr><td><input type="checkbox"/></td><td>Retrieve PIN</td><td>300</td><td>300</td></tr><tr><td><input type="checkbox"/></td><td>Door Open</td><td>400</td><td>400</td></tr><tr><td><input type="checkbox"/></td><td>Door Close</td><td>500</td><td>500</td></tr><tr><td><input type="checkbox"/></td><td>Restart Device</td><td>600</td><td>600</td></tr><tr><td><input type="checkbox"/></td><td>Release Alarm</td><td>700</td><td>700</td></tr></tbody></table>			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
Status	Event	On Time (msec)	Off Time (msec)																															
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<input type="checkbox"/>	Authentication Fail	200	200																															
<input type="checkbox"/>	Retrieve PIN	300	300																															
<input type="checkbox"/>	Door Open	400	400																															
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<input type="checkbox"/>	Restart Device	600	600																															
<input type="checkbox"/>	Release Alarm	700	700																															
VISITOR																																		
<input type="checkbox"/> Enable Panel Feedback																																		
<b>APPLY</b> <b>RESET</b>																																		

Panel Feedback

<input checked="" type="checkbox"/> LED Control By Panel	LED Mode One LED	Timeout (msec) 3000																																
<input type="checkbox"/> Enable Pulse Processing	LED Driving Mode Low	Pulse Processing Time (msec) 500																																
<table border="1"><thead><tr><th>Status</th><th>Event</th><th>On Time (msec)</th><th>Off Time (msec)</th></tr></thead><tbody><tr><td><input type="checkbox"/></td><td>Authentication Success</td><td>100</td><td>100</td></tr><tr><td><input type="checkbox"/></td><td>Authentication Fail</td><td>200</td><td>200</td></tr><tr><td><input type="checkbox"/></td><td>Retrieve PIN</td><td>300</td><td>300</td></tr><tr><td><input type="checkbox"/></td><td>Door Open</td><td>400</td><td>400</td></tr><tr><td><input type="checkbox"/></td><td>Door Close</td><td>500</td><td>500</td></tr><tr><td><input type="checkbox"/></td><td>Restart Device</td><td>600</td><td>600</td></tr><tr><td><input type="checkbox"/></td><td>Release Alarm</td><td>700</td><td>700</td></tr></tbody></table>			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
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																															
<b>APPLY</b> <b>RESET</b>																																		



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

STEP 5

Click **Apply**.

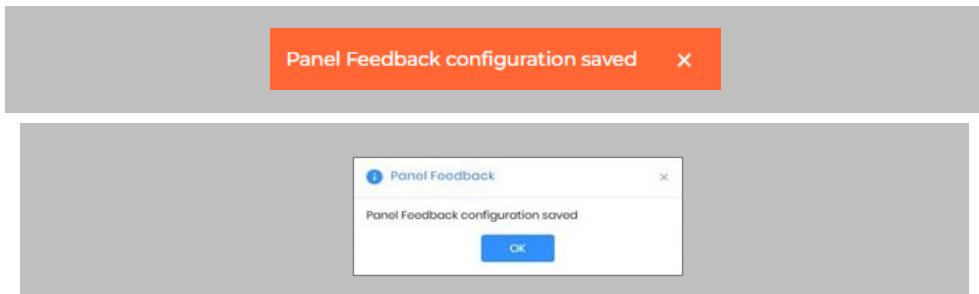


Figure 56: IXM WEB - Save Panel Feedback

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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 Authentication Settings** to view default settings.

The screenshot shows the 'Thermal Authentication Settings' tab selected in the navigation bar. The page displays various configuration options:

- DEVICE CONFIGURATION**: Temperature Unit (Fahrenheit selected), Threshold Temperature (100.4), Sensitivity (High), Authentication Mode (Strict).
- VISITOR SCREENING**: Options for Capture Image on EBT, Send Wiegand, Dunes Status, Thermal on VoIP Call, Show Temperature on LCD, and Temperature Logging.
- MESSAGES**: Display Message on EBT (Custom selected), EBT Display Message Time (sec) (3), and Second Trial on EBT.

At the bottom are **APPLY** and **RESET** buttons.

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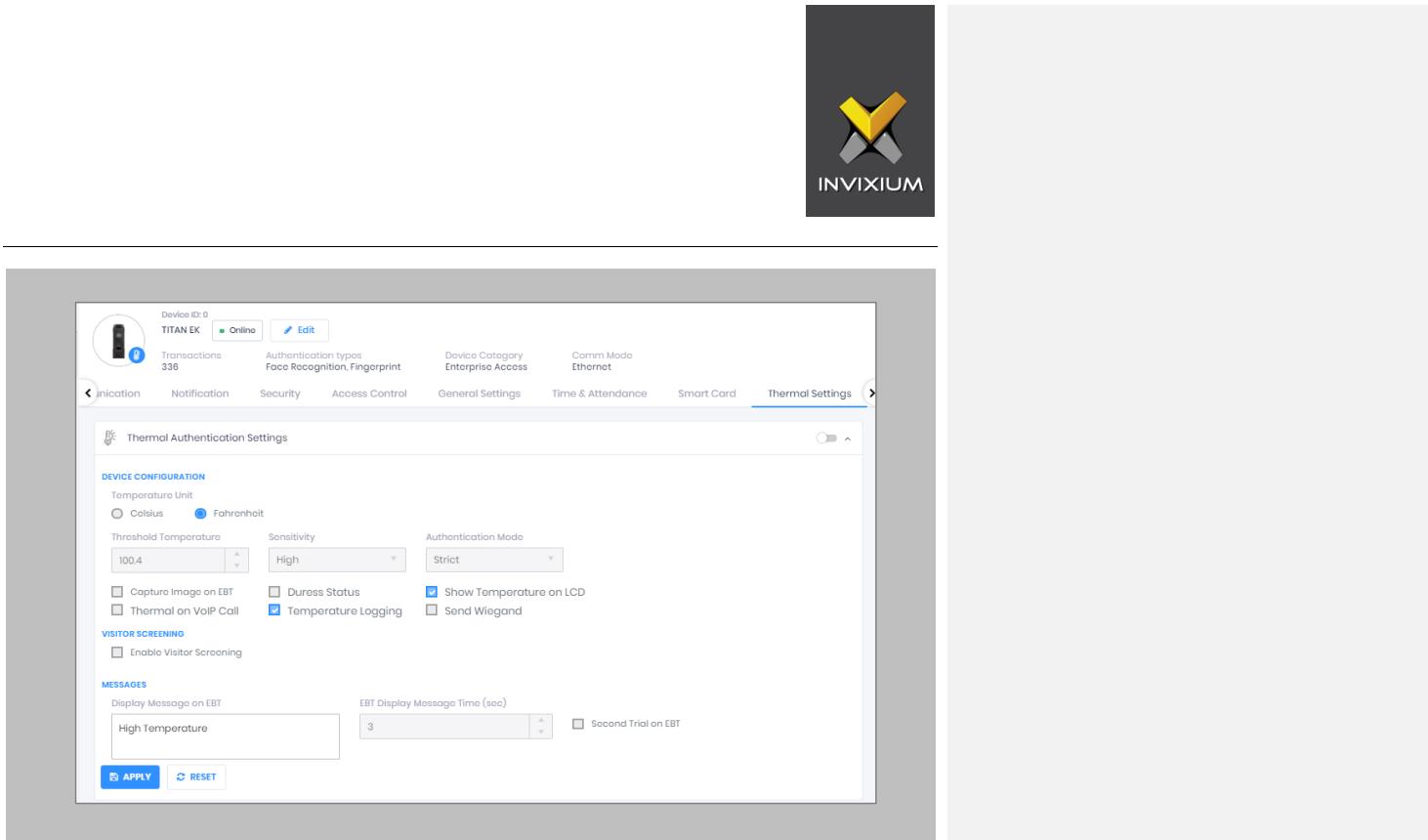


Figure 57: IXM WEB - Thermal Settings

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

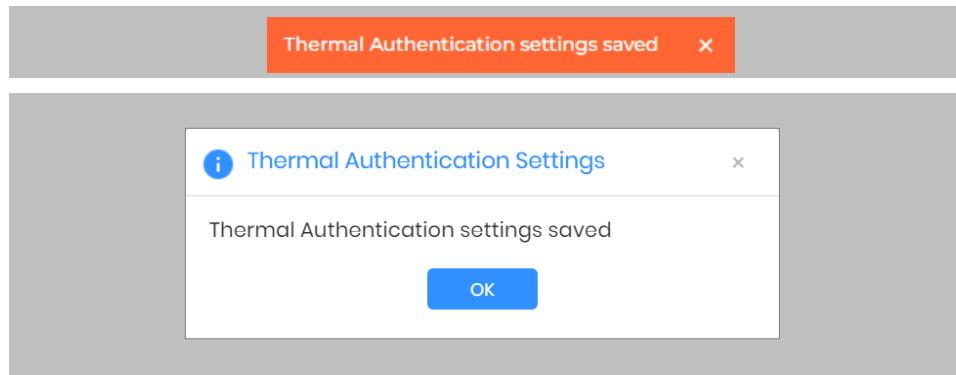


Figure 58: IXM WEB - Save Thermal Settings



## 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:**



- 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**.

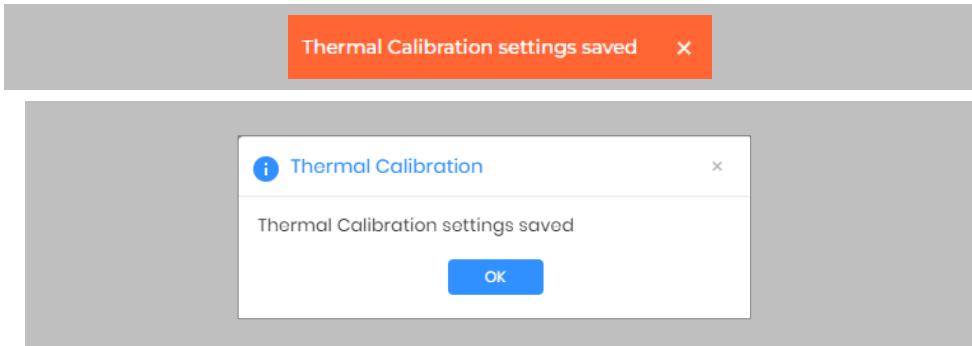
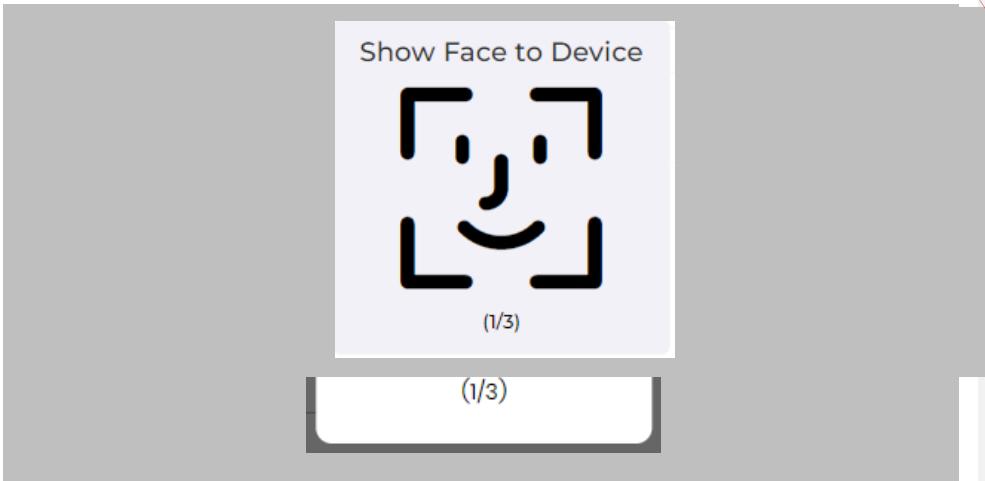


Figure 60: IXM WEB - Save Thermal Calibration Settings



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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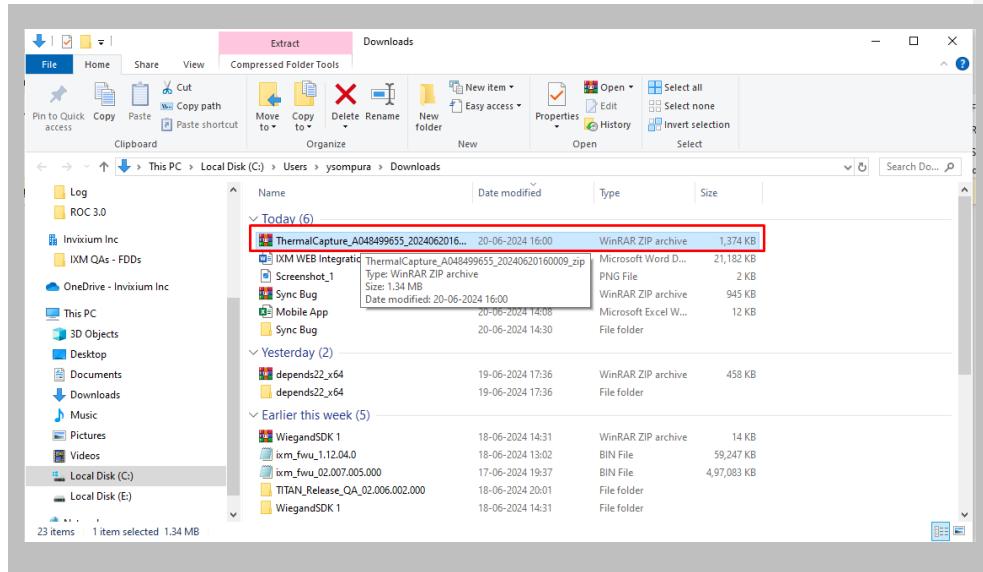
Figure 61: IXM WEB - Capture Thermal Data

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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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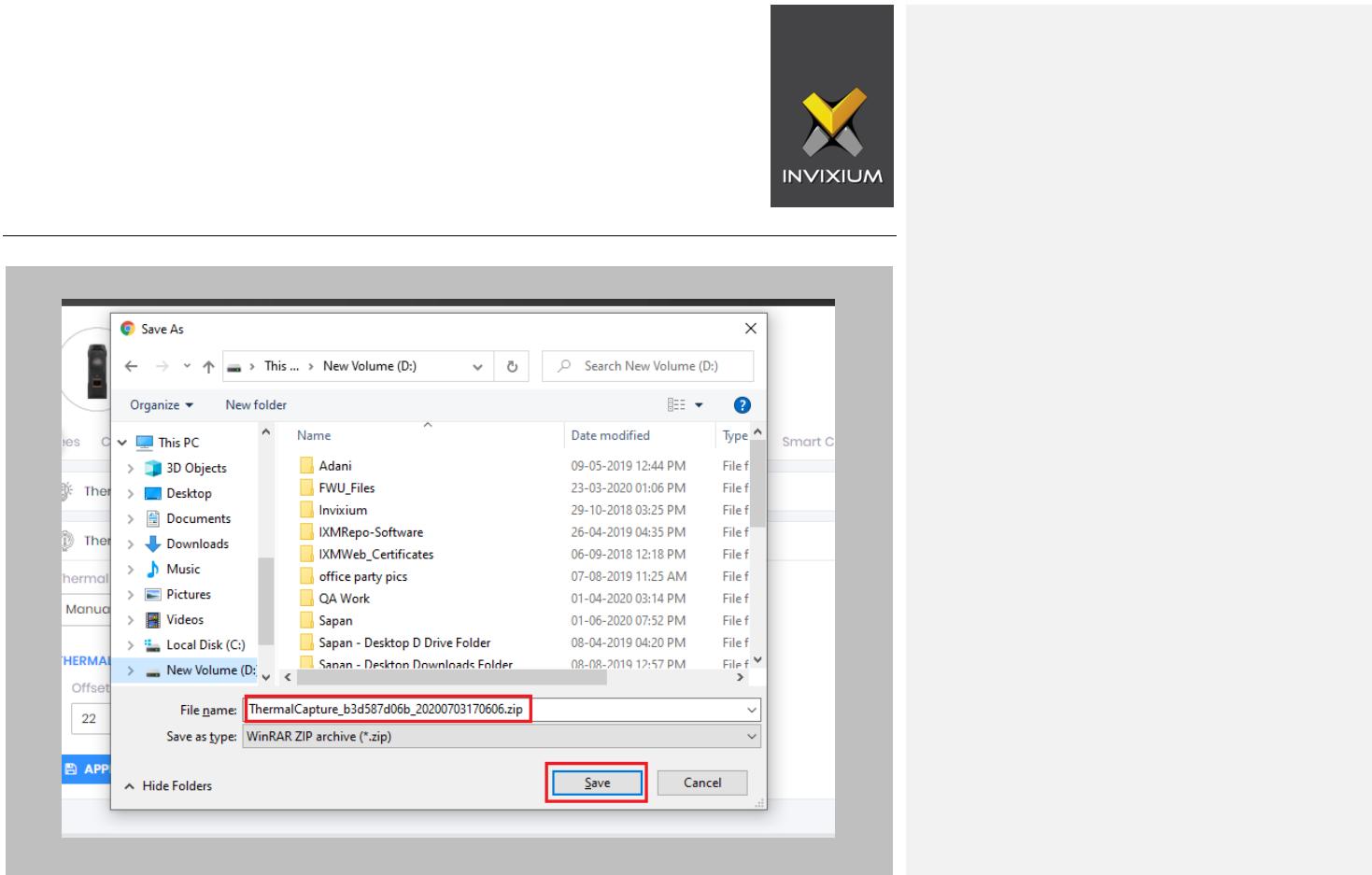


Figure 62: IXM WEB - Save Captured Thermal Data

## 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 [TITAN](#)'s camera.

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

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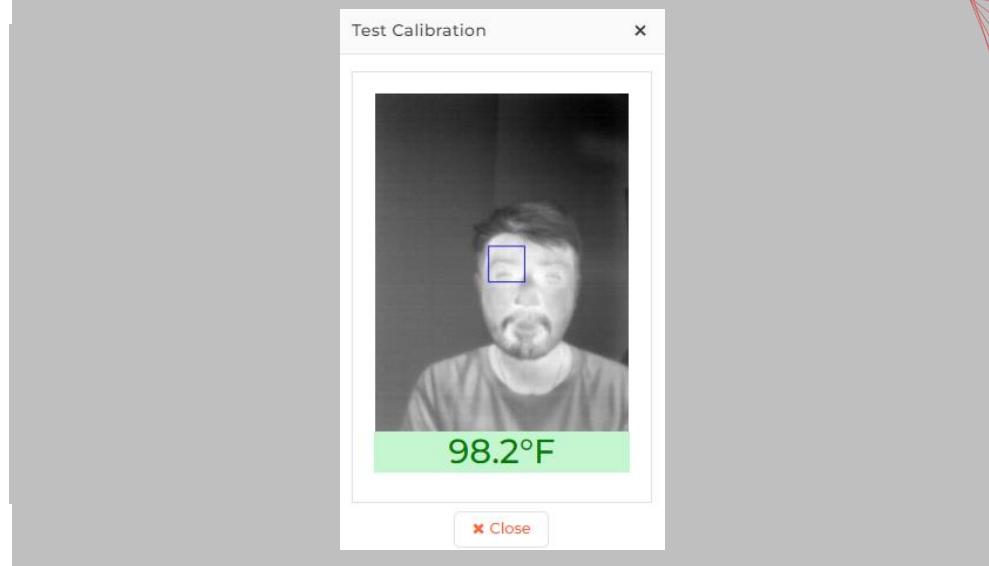
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## Test Calibration Options

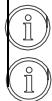
To test Thermal Calibration, click [Test Calibration](#).



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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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## Change Temperature Unit Settings

### STEP 1

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

The screenshot shows the IXM WEB application interface. On the left, there is a vertical sidebar with icons for Home, License, Company, and General. The General icon is highlighted. At the top, there are tabs: Application Configuration, Data Adapter, Data Export, Options (which is highlighted in red), Smart Card Settings, and Wiegand. Below the tabs, there are several configuration sections. One section is titled "TEMPERATURE UNIT" and contains a radio button group where "Fahrenheit" is selected. Another section is titled "DATE FORMAT" with a dropdown menu set to "mm/dd/yyyy". At the bottom of the page, there is a footer bar with icons for Help, Support, and Contact.

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



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## 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.

The screenshot shows the 'Manage Preferences' dialog box. A red box highlights the 'TEMPERATURE UNIT' section, which contains a radio button for 'Celsius' (unchecked) and one for 'Fahrenheit' (checked). Below this is the 'DATE FORMAT' section with a dropdown menu set to 'mm/dd/yyyy'. At the bottom right of the dialog are 'Save' and 'Reset' buttons, with 'Save' also highlighted by a red box. The background of the dialog has a light gray gradient.

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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.

A screenshot of the Invixium Device Management software interface. The top navigation bar includes links for Overview, Employees, Communication, Notification, Security, Access Control, General Settings (which is highlighted in red), Time &amp; Attendance, Smart Card, and Thermal Settings. On the left, there's a sidebar with device details: Device ID (AO4B499655), Firmware Version (02.00.000.000), Device Category (Enterprise Access), Comm Mode (Ethernet), Secure Mode (Yes), and Model Name (TITAN FRP5). The main content area shows the 'General Settings' tab selected, with 'Mask Authentication Settings' being viewed. Under 'CONFIGURATION', 'Authentication Mode' is set to 'Strict'. There are several checkboxes: 'Duress Status' (unchecked), 'Capture Image if Mask Missing' (unchecked), 'Log Mask Detection Data' (checked), and 'Send Wiegand' (unchecked). A dropdown menu for 'Missing Mask Message Timeout (sec)' is set to '3'. Below these are sections for 'FULL FACE AUTHENTICATION' (with 'Enable Full Face Identification' checked) and 'VISITOR SCREENING' (with 'Enable Visitor Screening' unchecked). At the bottom are 'APPLY' and 'RESET' buttons.

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A screenshot of the IXM WEB interface showing the 'General Settings' tab selected. The page displays configuration options for mask authentication, including 'Authentication Mode' set to 'Strict', 'Capture Image if Mask Missing' checked, 'Log Mask Detection Data' checked, and 'Send Wiegand' unchecked. It also shows 'Missing Mask Warning Message' set to 'Mask Not Detected' and 'Missing Mask Message Timeout (sec)' set to '3'. Other sections like 'Full Face Authentication' and 'Visitor Screening' are partially visible. At the bottom are 'APPLY' and 'RESET' buttons.

Device ID: 0  
TS TITAN THERMAL FV    Online    Edit

Transactions: 411    Authentication types: Face Recognition, Finger Vein    Device Category: Enterprise Access    Comm Mode: Ethernet

Overview Employees Communication Notification Security Access Control General Settings Time & Attendance Smart Card Thermal Settings

Video Surveillance

Mask Authentication Settings (On)

**CONFIGURATION**

Authentication Mode: Strict

Capture Image if Mask Missing    Log Mask Detection Data    Send Wiegand

Missing Mask Warning Message: Mask Not Detected

Missing Mask Message Timeout (sec): 3

**FULL FACE AUTHENTICATION**

Enable Full Face Identification

**VISITOR SCREENING**

Enable Visitor Screening

APPLY   RESET

Figure 66: IXM WEB - Mask Authentication Settings





- **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**.

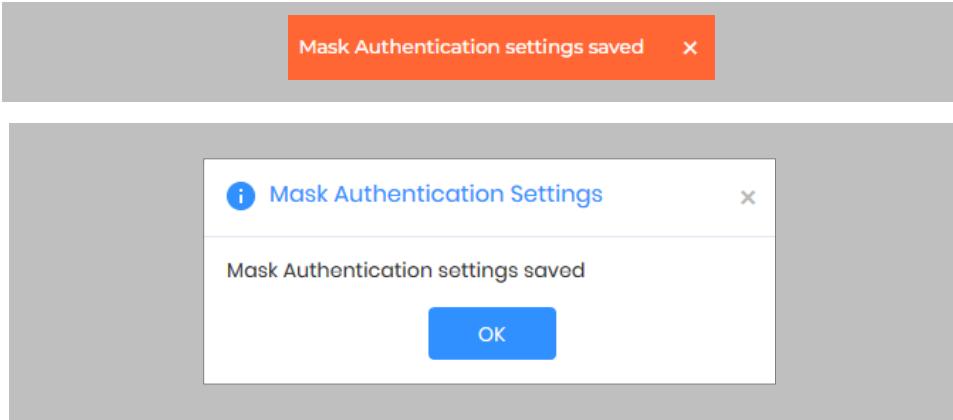


Figure 67: IXM WEB - Save Mask Settings



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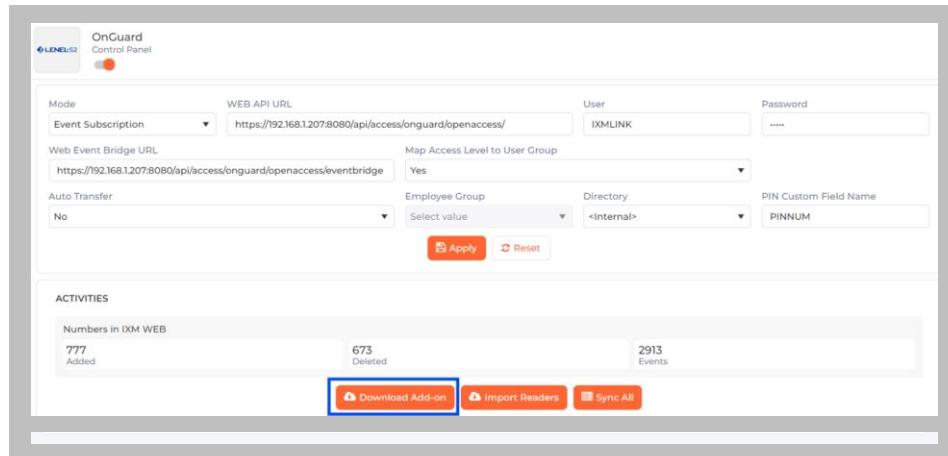


## Pre-Configuration for Enrollment

### 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)

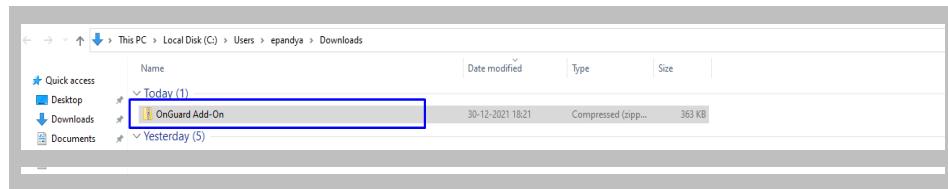


Figure 69: IXM WEB - Download Add-On Zip File



## 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.

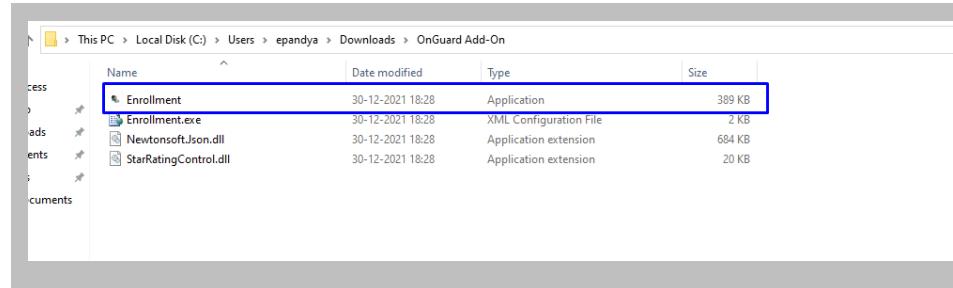


Figure 70: IXM WEB - OnGuard Add-On Enrollment.exe

## STEP 4

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

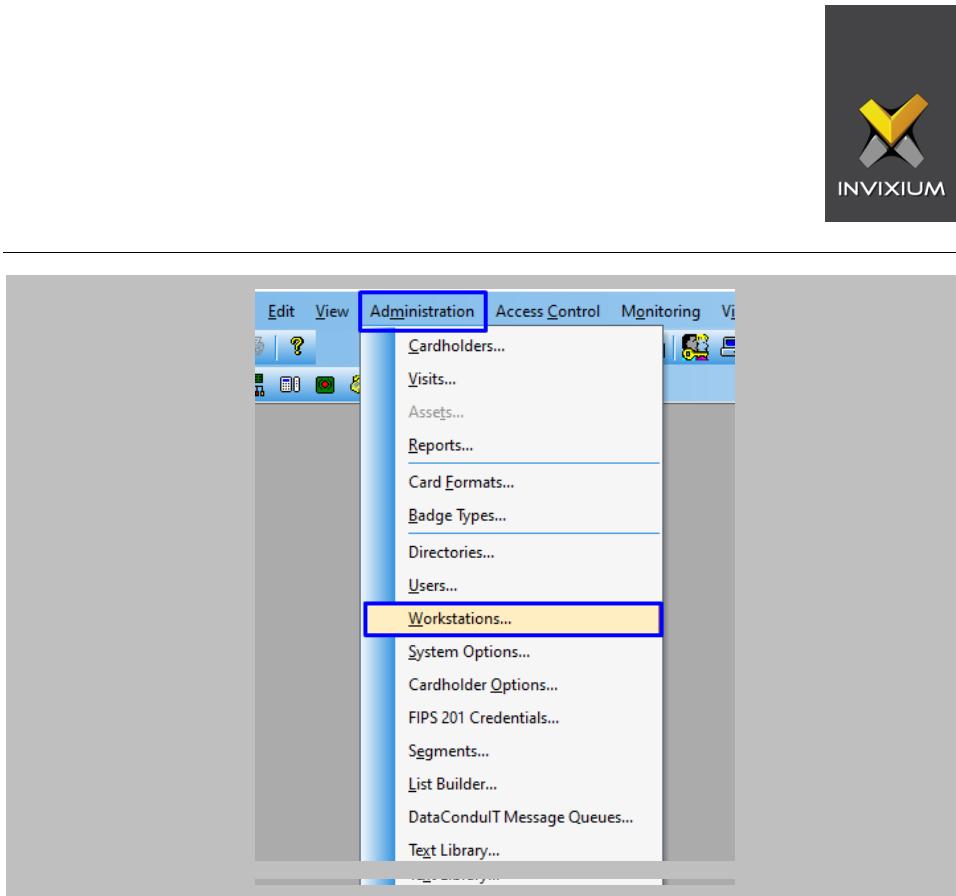
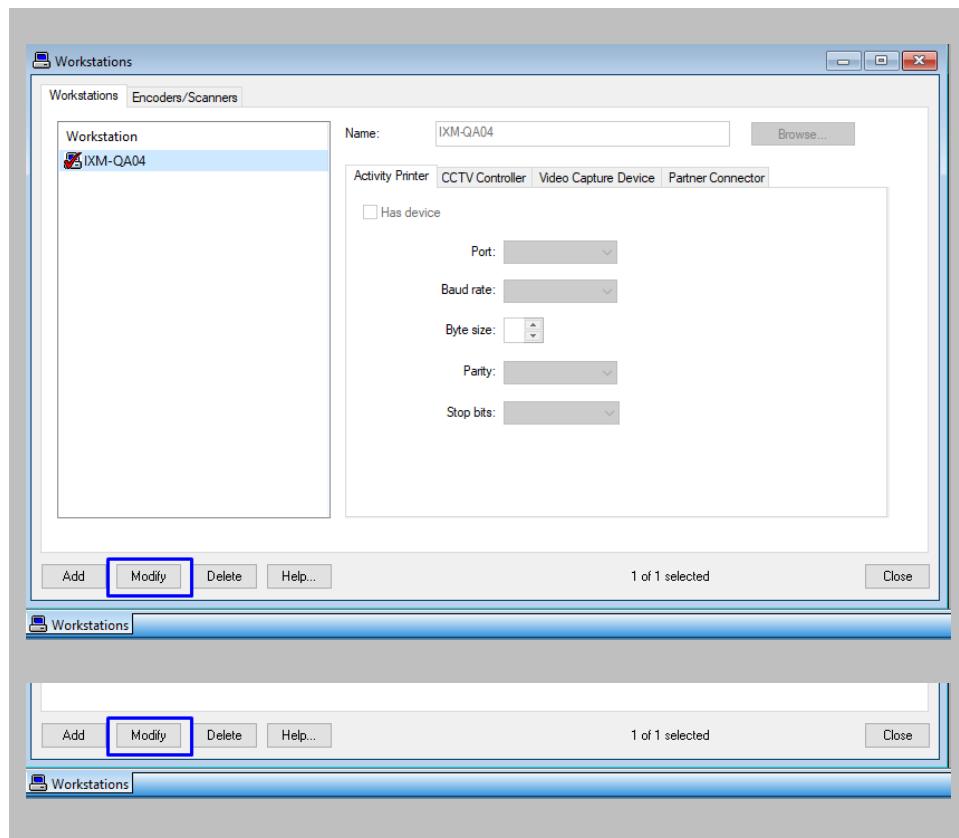


Figure 71: OnGuard - Workstation

## STEP 5

Click **Modify** for the existing Workstation.



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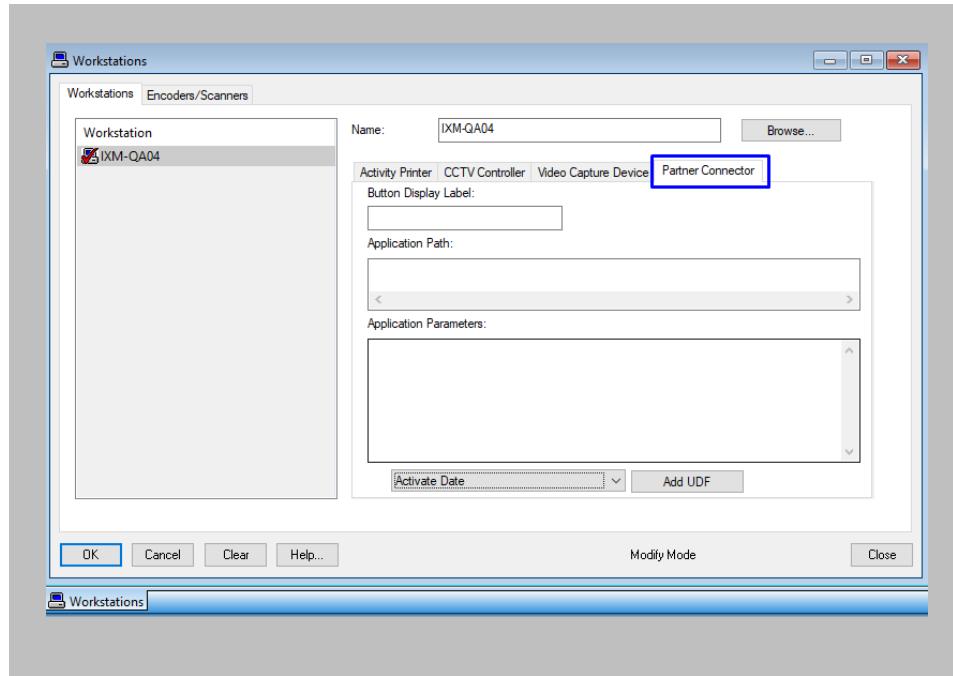


Figure 72: OnGuard - Modify Workstation



## STEP 6

Click **Partner Connector**.



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## STEP 6

Click Partner Connector.

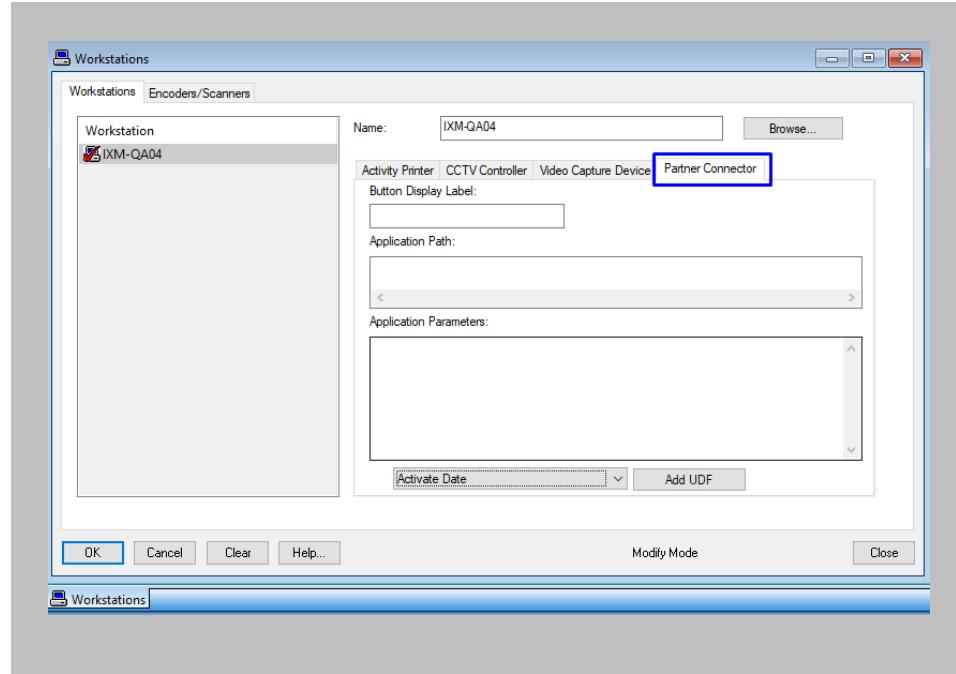


Figure 76: OnGuard - Partner Connector



## STEP 7

Enter the Following Details:

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- 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.

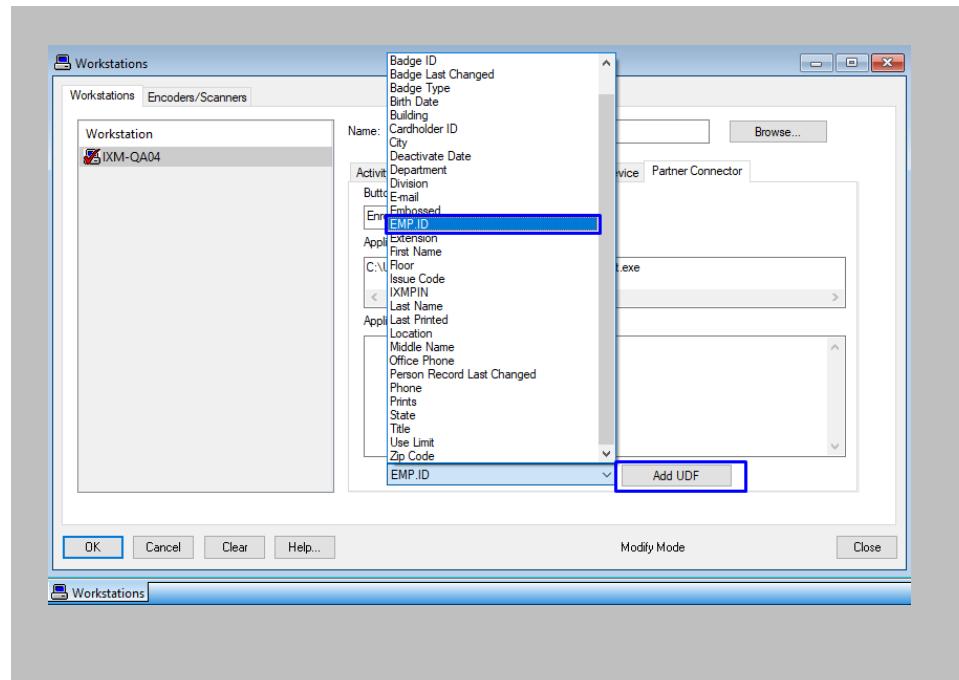


Figure 74: OnGuard - Add UDF



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**STEP 8**

**Click OK.**

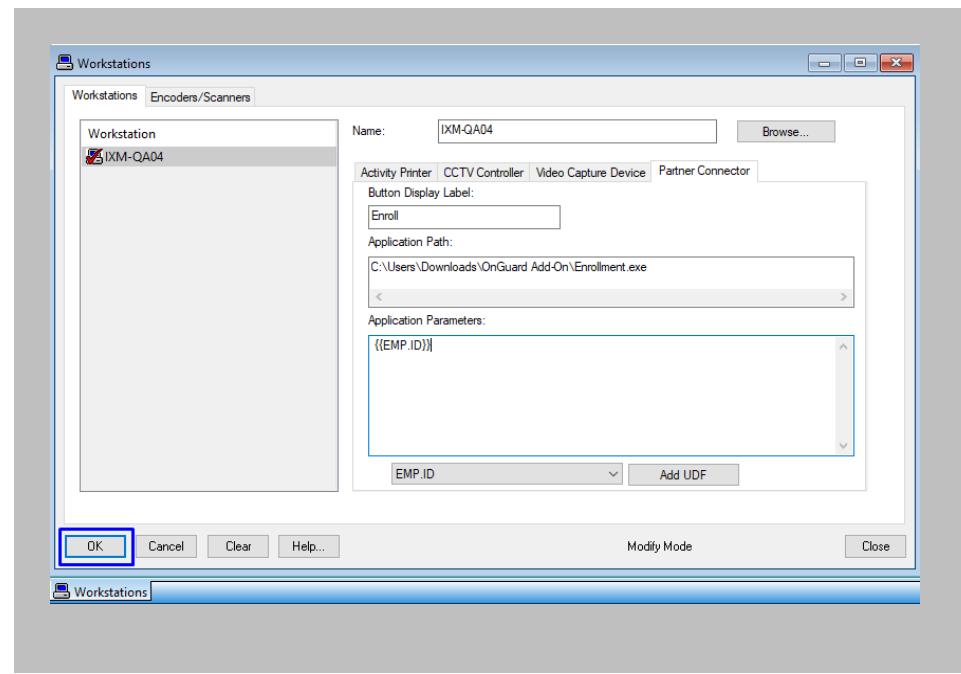
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**STEP 8**

**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.

The screenshot shows the 'Cardholders' window from the OnGuard software. The window has a title bar with tabs for 'Cardholder', 'Badge', 'Access Levels', 'Authorized Credential', 'Intrusion User', 'Device Owner', 'Biometrics', 'Visits', and 'Direct'. The 'Cardholder' tab is selected. The main area contains fields for Last name (Doe), First name (John), Middle name (empty), Cardholder ID (empty), Badge type (Employee Badge), Address (empty), City (empty), State (empty), Zip code (empty), Phone (empty), Birth date (empty), Location (empty), E-mail (empty), Building (empty), Floor (empty), Office phone (empty), Extension (empty), and Record last changed (12/31/2021 10:22:23 AM). At the bottom, there are buttons for Search, Add, Modify, Delete, Print, Encode, and Enroll. The 'Enroll' button is highlighted with a blue border. A red callout box with the text 'Formatted: Heading 3' points to the 'Enroll' button.

Figure 76: OnGuard - Enroll Button



## 17.14. Enrollment from LenelS2 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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A screenshot of the OnGuard software interface, specifically the Cardholders window. The window has a title bar with tabs for Cardholder, Badge, Access Levels, Authorized Credential, Intrusion User, Device Owner, Biometrics, Visits, and Directories. The Cardholder tab is selected. The main area contains fields for Last name (Doe), First name (John), Middle name, Cardholder ID, Badge type (Employee Badge), Address, City, State, Zip code, Phone, Birth date, E-mail, Record last changed (12/31/2021 10:22:23 AM), Title, Department, Division, Location, Building, Floor, Office phone, Extension, and a Notes section. At the bottom, there are buttons for Search, Add, Modify, Delete, Print, Encode, and Enroll. The 'Enroll' button is highlighted with a blue rectangle. The status bar at the bottom shows 'Cardholders'.

Figure 77: OnGuard - Click Enroll



## STEP 2

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

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- **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**.

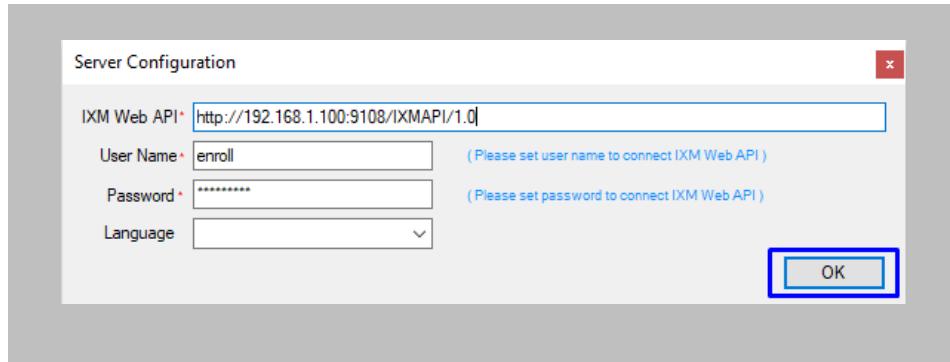


Figure 78: OnGuard - Enrollment Add-on Configuration



## 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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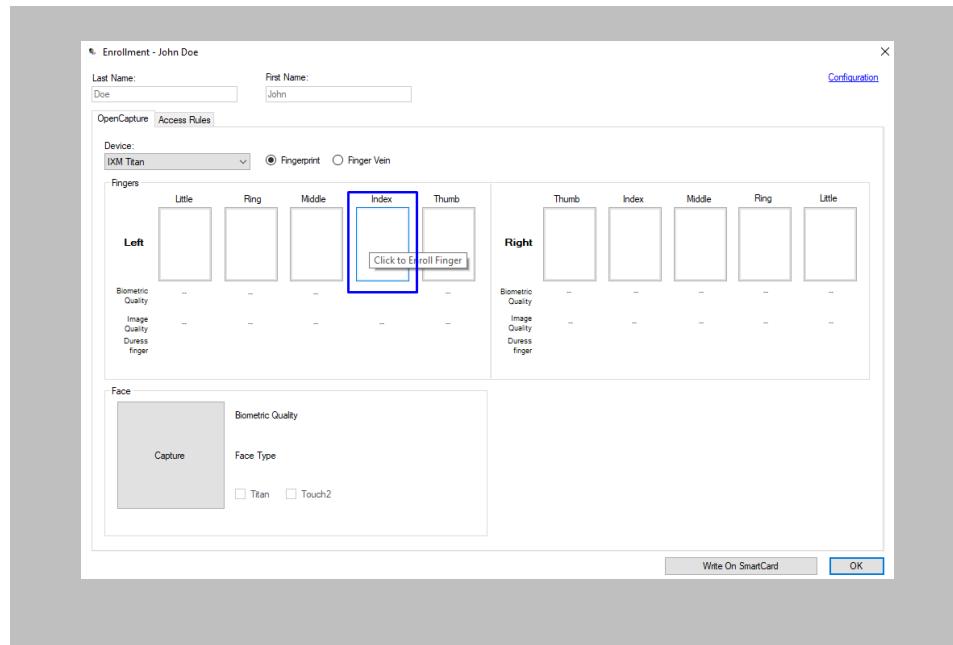
The screenshot shows the 'Enrollment - John Doe' dialog box. At the top, it displays 'Last Name: Doe' and 'First Name: John'. Below this, there are tabs for 'OpenCapture' (which is selected) and 'Access Rules'. The 'OpenCapture' tab contains a 'Device:' dropdown set to 'IXM Titan Fingers' and a radio button group for 'Fingerprint' (selected) and 'Finger Vein'. To the right, there are two sets of five empty boxes labeled 'Left' and 'Right' respectively, corresponding to the fingers: Little, Ring, Middle, Index, and Thumb. Below these are tables for 'Biometric Quality', 'Image Quality', and 'Dress finger' for both hands. At the bottom left is a 'Face' section with a 'Capture' button and a 'Face Type' dropdown containing 'Titan' and 'Touch2' options. At the bottom right are 'Write On SmartCard' and 'OK' buttons.

Figure 79: OnGuard – Fingerprint Device Selection



## STEP 2

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



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Figure 80: OnGuard - Fingerprint Enrollment



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### STEP 3

Click on '**Capture**' for face enrollment.

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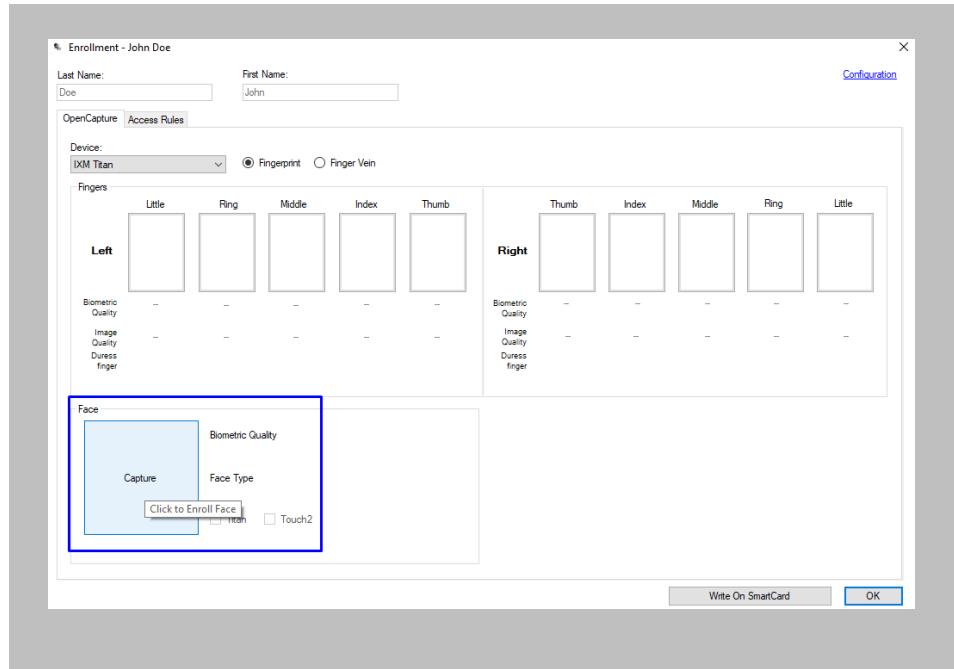


Figure 81: OnGuard - Face Enrollment



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#### 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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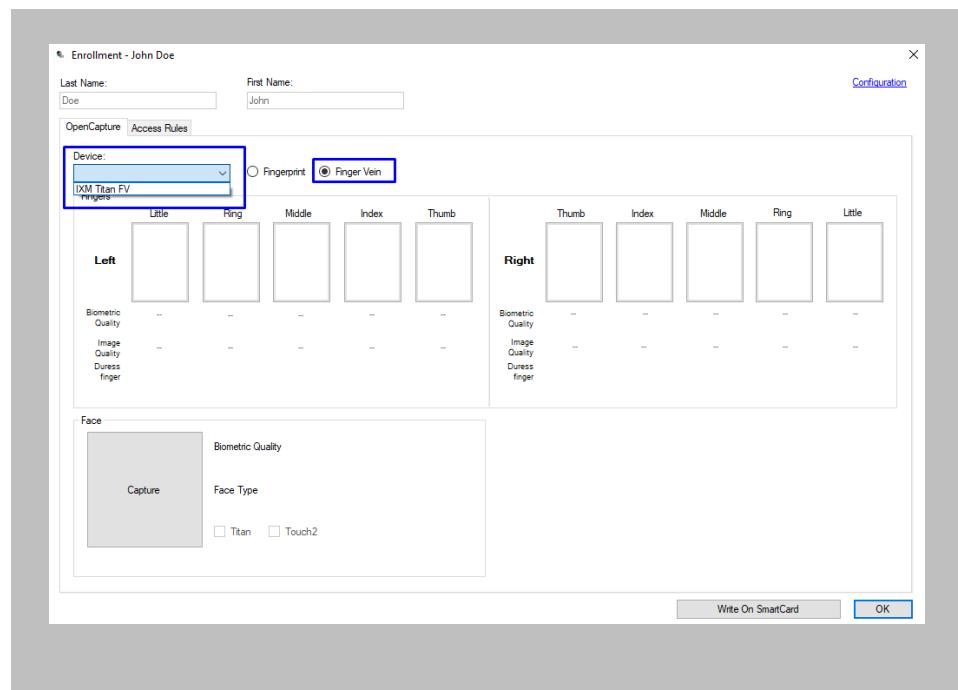


Figure 82: OnGuard – Finger Vein Device Selection



## STEP 5

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

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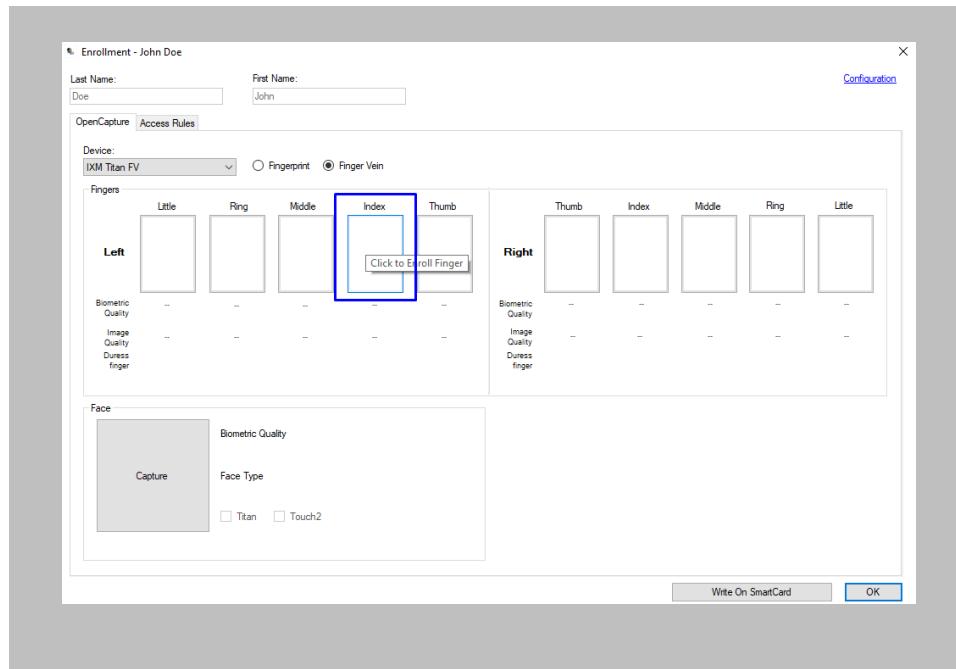


Figure 83: OnGuard – Finger Vein Enrollment



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## STEP 6

Click on **OK** to save enrollment.

A screenshot of a computer window titled "Enrollment - John Doe". The window shows biometric enrollment details for a user named John Doe. It includes fields for Last Name (Doe) and First Name (John). The "Device" dropdown is set to "TITAN Entrance". The "Access Rules" tab is selected. The "Fingers" section shows fingerprint images for both hands: Left (Index finger) and Right (Index finger). Below each image are five star icons indicating quality. The "Face" section shows a grayscale portrait of a person and indicates Biometric Quality as five stars. There are checkboxes for "Titan" and "Touch2". At the bottom right is a blue "OK" button, which is highlighted with a red arrow pointing from the text "Formatted: Heading 3" located to its right.

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 Questionaries](#) 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



### STEP 3

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

The screenshot shows the 'Enrollment - John Doe' window. The 'Access Rules' tab is selected. In the 'Access Details' section, 'Access Rules' is set to 'None' and '1:N Security' is set to 'Medium'. In the 'Health Access Rule' section, 'Enable Mask Detection' and 'Enable Thermal Screening' are checked. Both 'Mask Detection Rule' and 'Thermal Screening Rule' dropdown menus show 'Use Device Rule'. Under 'Vital Signs', 'Attestation Questions' is checked, and both 'Vital Signs Rule' and 'Attestation Questions Rule' dropdown menus show 'Use Device Rule'. At the bottom, there are 'Write On SmartCard' and 'OK' buttons, with 'OK' being highlighted with a blue border.

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.

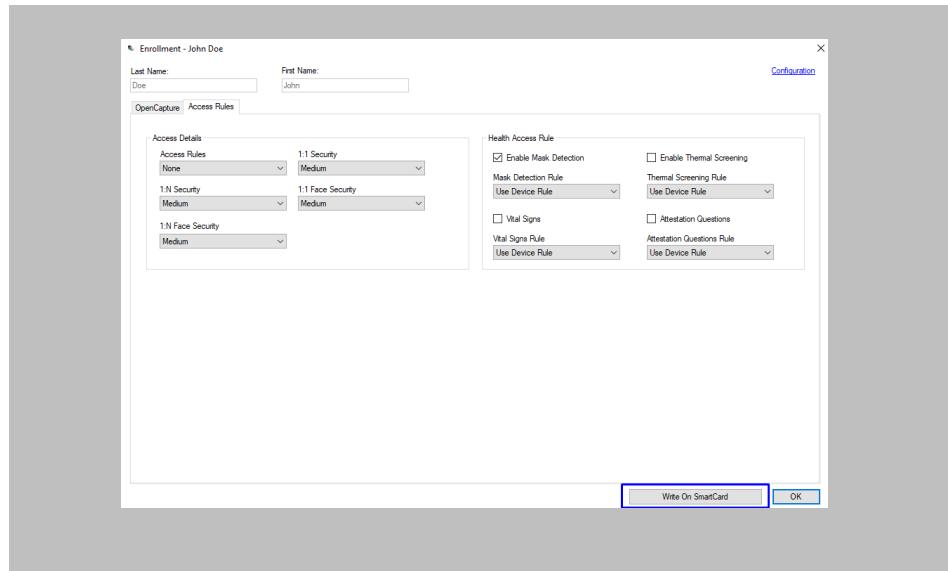


Figure 86: OnGuard - IXM WEB Save User Record on Card

### RESULT

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

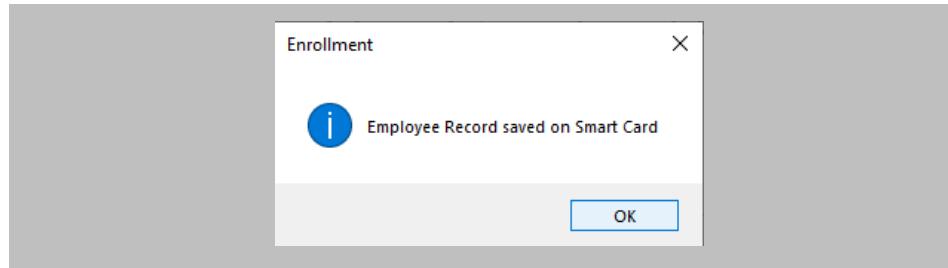




Figure 87: OnGuard – IXM WEB User Record Saved on Card

## 18.15. Enrollment Best Practices

### Fingerprint Enrollment Best Practices

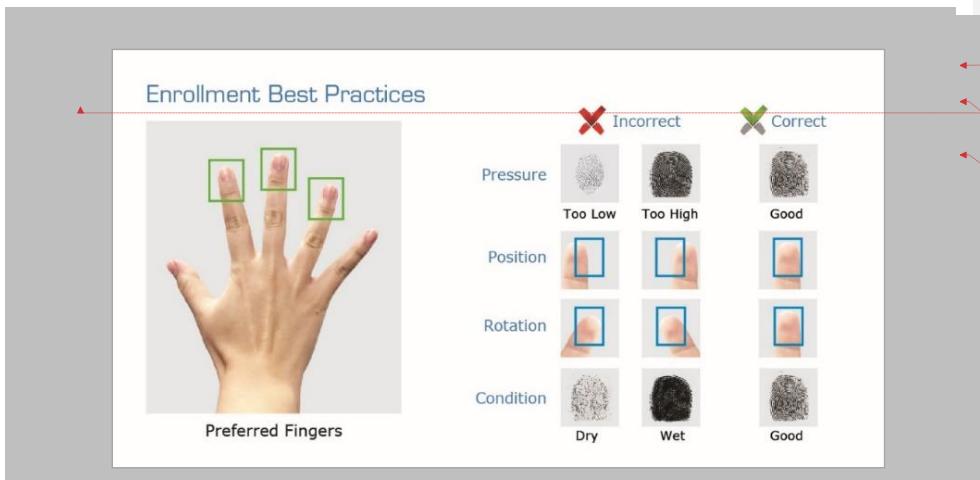
- Invixium recommends using the index, middle, and ring fingers for enrollment.
- Make sure your finger is flat and centered on the sensor scanning area.
- The finger should not be at an angle and should be straight when placed on the sensor.
- Ensure that the finger is not too dry or too wet. Moisten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

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### 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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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



## 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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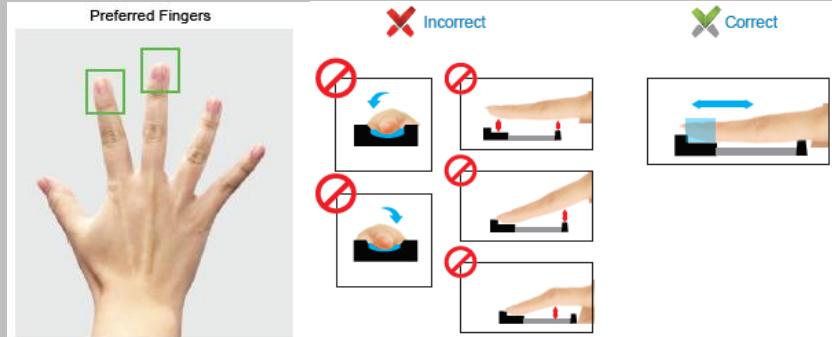
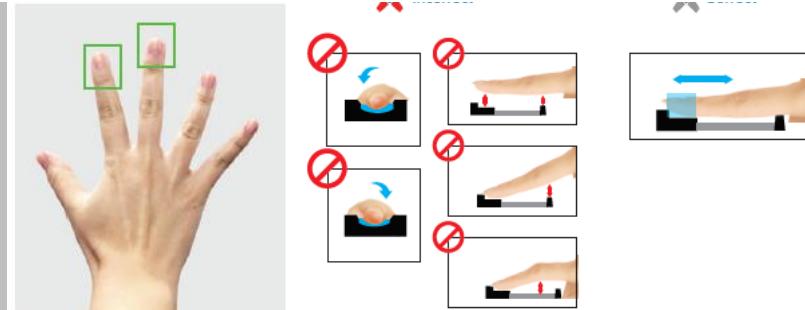


Figure 93: Finger Vein Enrollment Best Practices





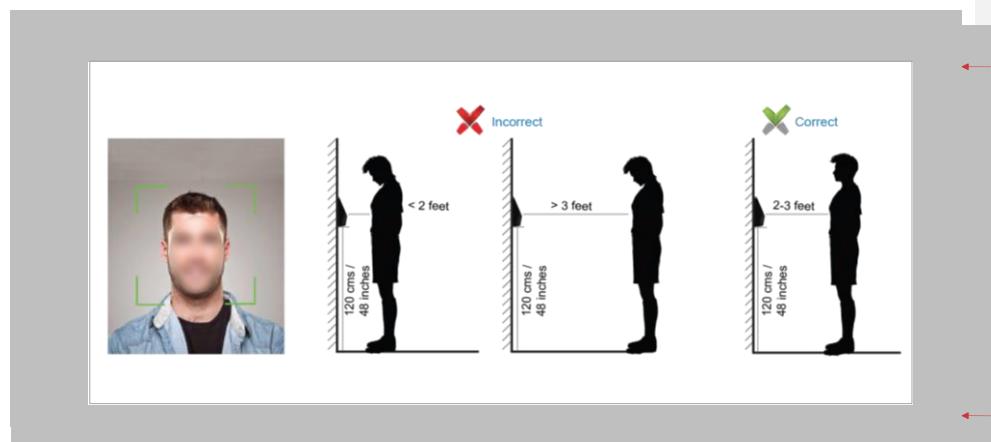
[Figure 90: Finger Vein Enrollment Best Practices](#)

#### 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



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P/N XAD-TPI-003-06G



## 19.16. 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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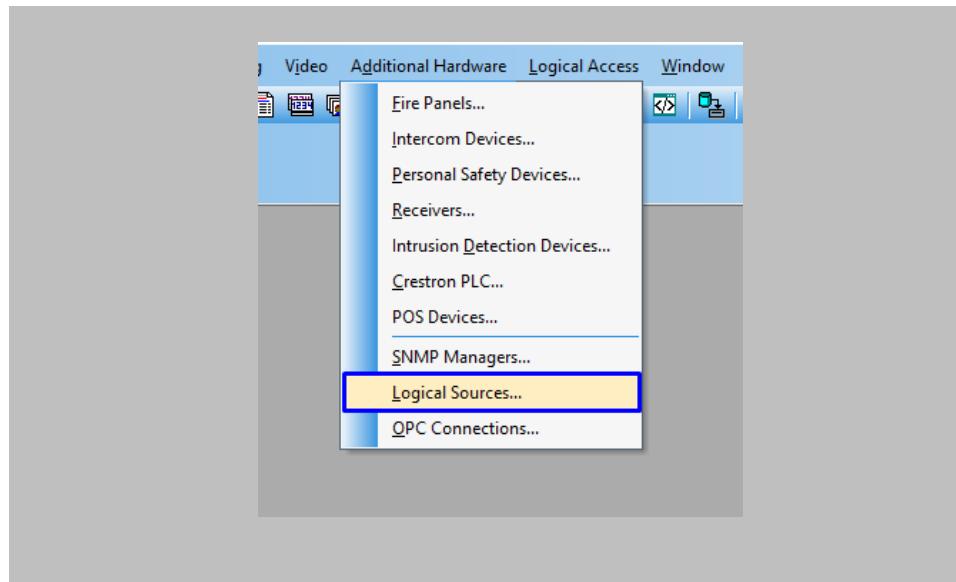


Figure 92: OnGuard - Add New Logical Source



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## STEP 2

Click on **Add** button.

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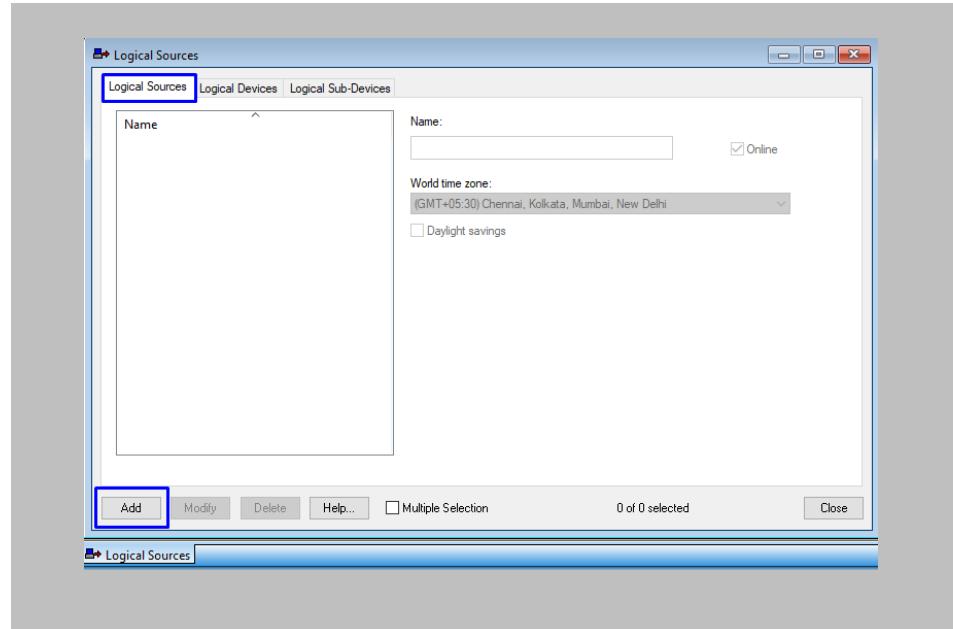


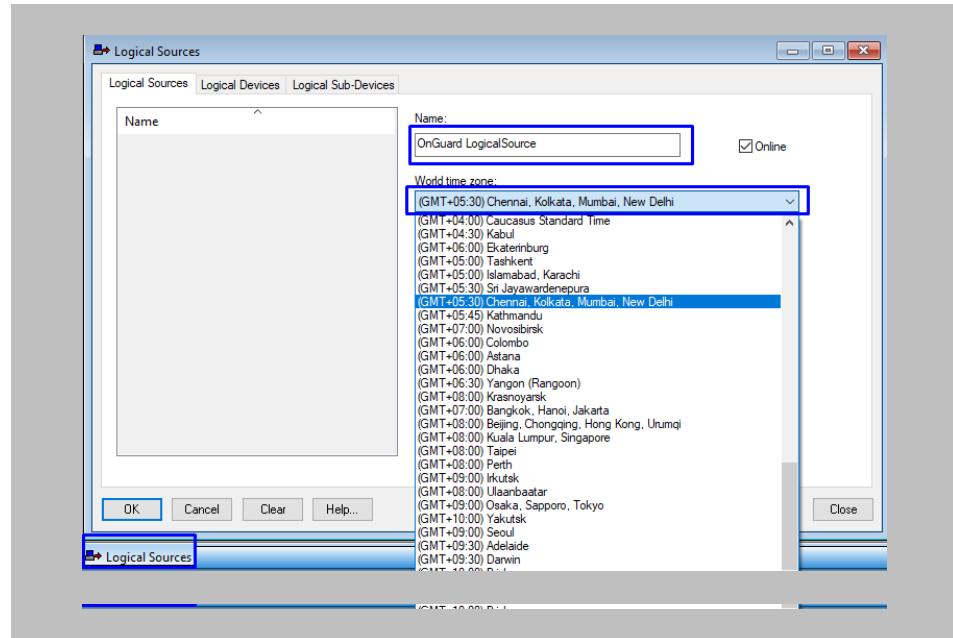
Figure 93: OnGuard – Logical Source



### STEP 3

Enter the following details:

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



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Figure 94: OnGuard - Add New Logical Source



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#### STEP 4

Click **OK**.

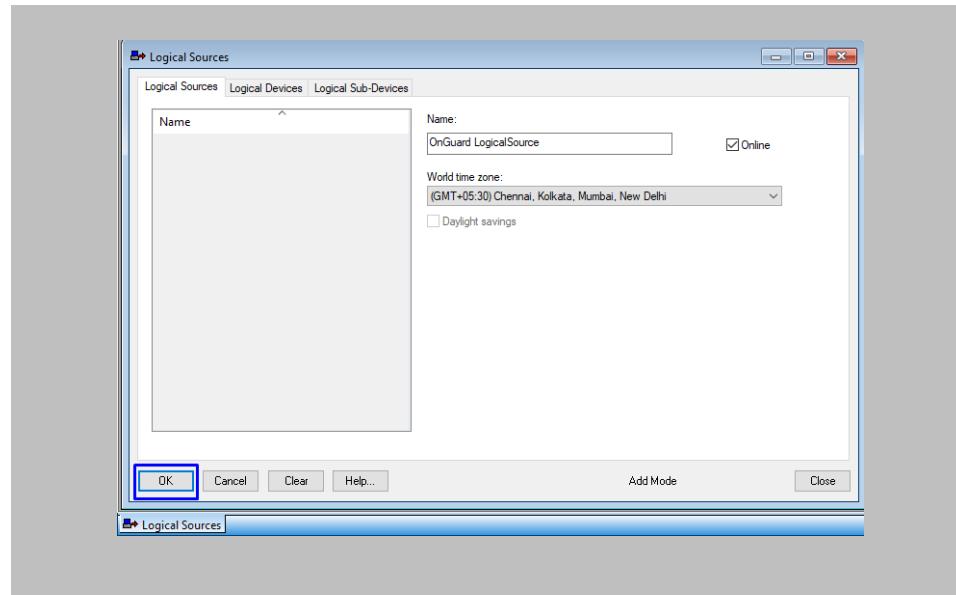


Figure 95: OnGuard - Save Logical Source



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## STEP 5

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

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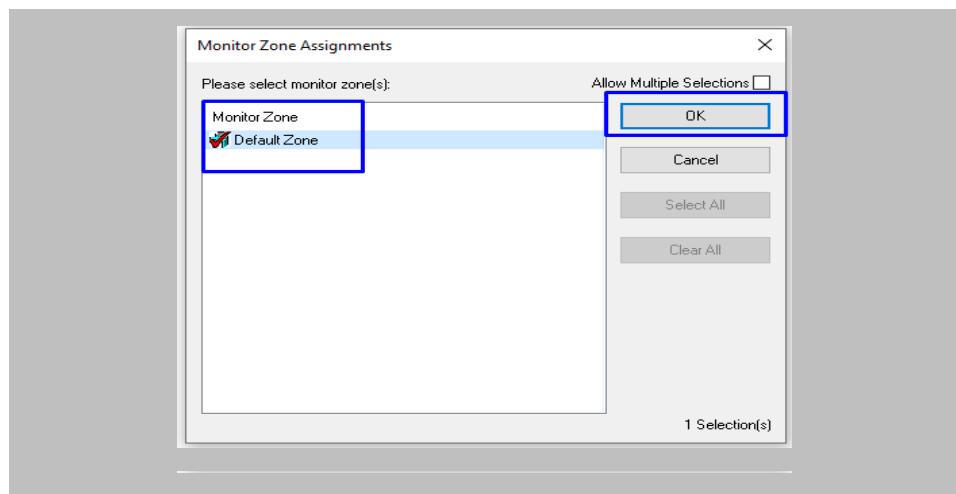


Figure 96: OnGuard - Logical Source Monitor Zone

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

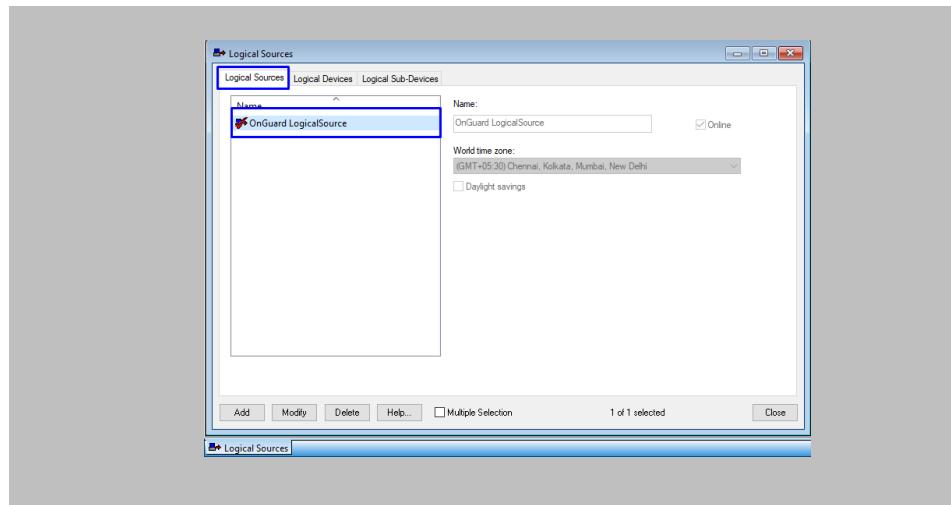
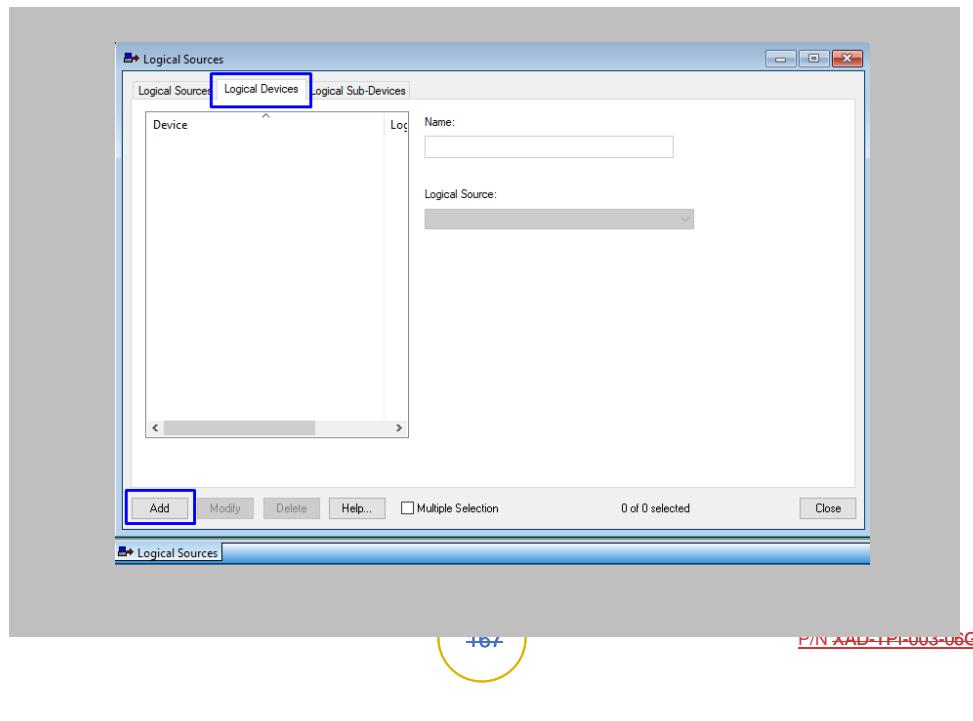


Figure 97: OnGuard - Logical Sources List

#### STEP 6

Click on the 'Logical Device' tab → Add.



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Figure 98: OnGuard - Logical Device

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P/N [XAD-TPI-003-06G](#)



## 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.

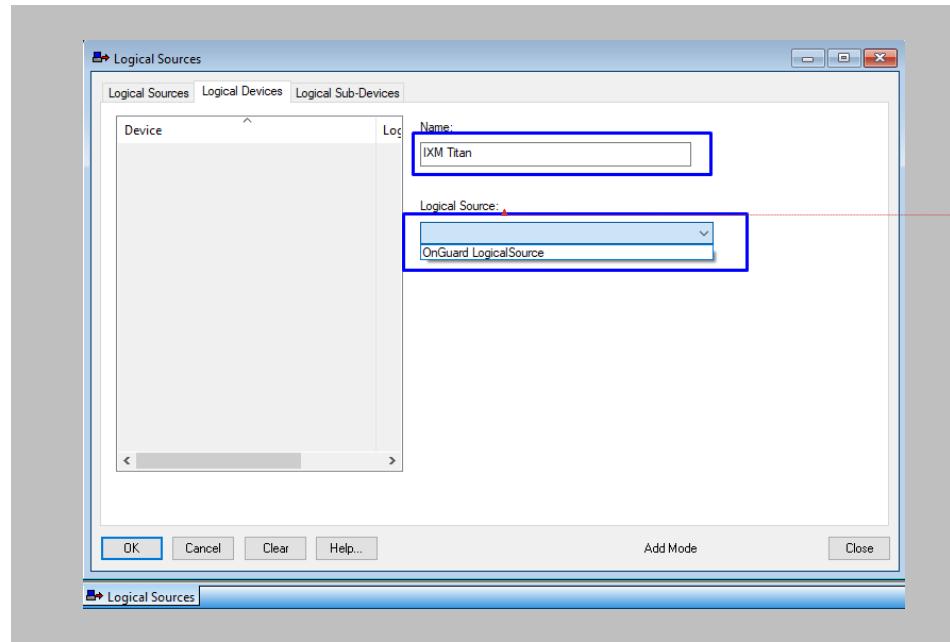


Figure-99: OnGuard - Logical Device Configuration



**STEP 8**

**Click OK**

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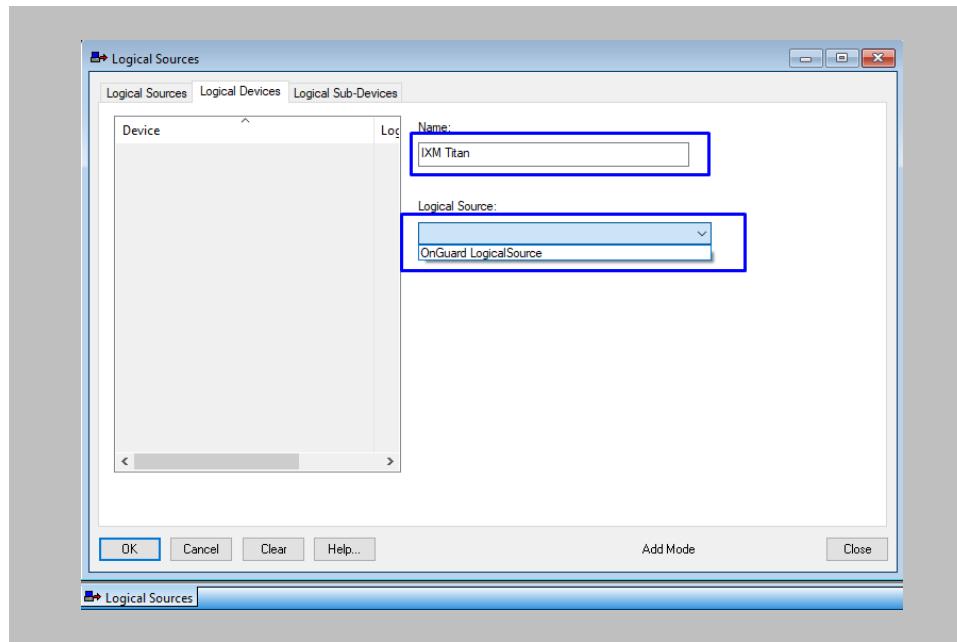


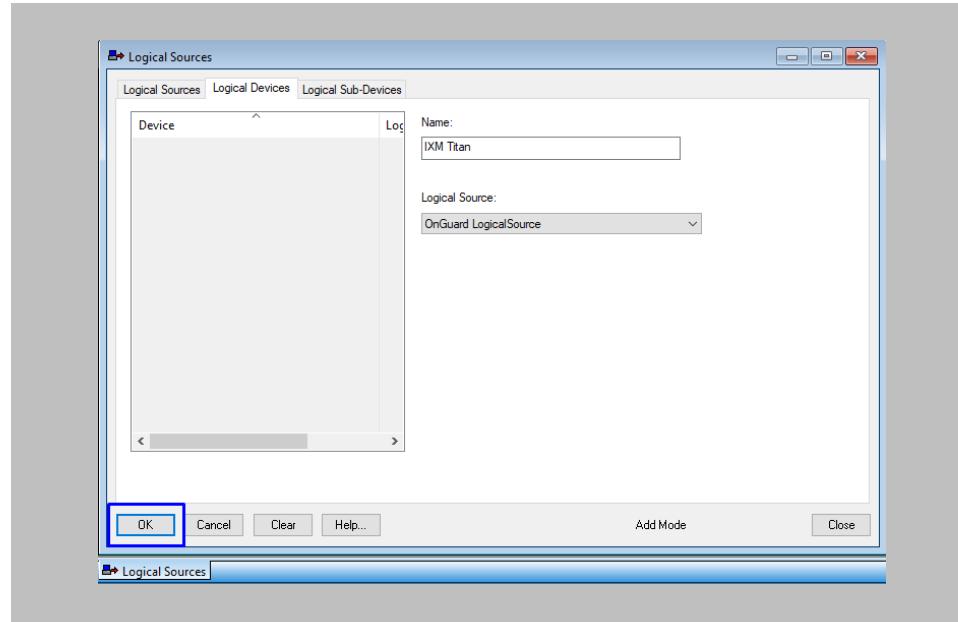
Figure 100: OnGuard - ~~Logical Device Configuration~~



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**STEP 8**

**Click OK.**



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**Figure 103:** OnGuard—Save Logical Device



The created '[Logical Device](#)' will be displayed as shown below.

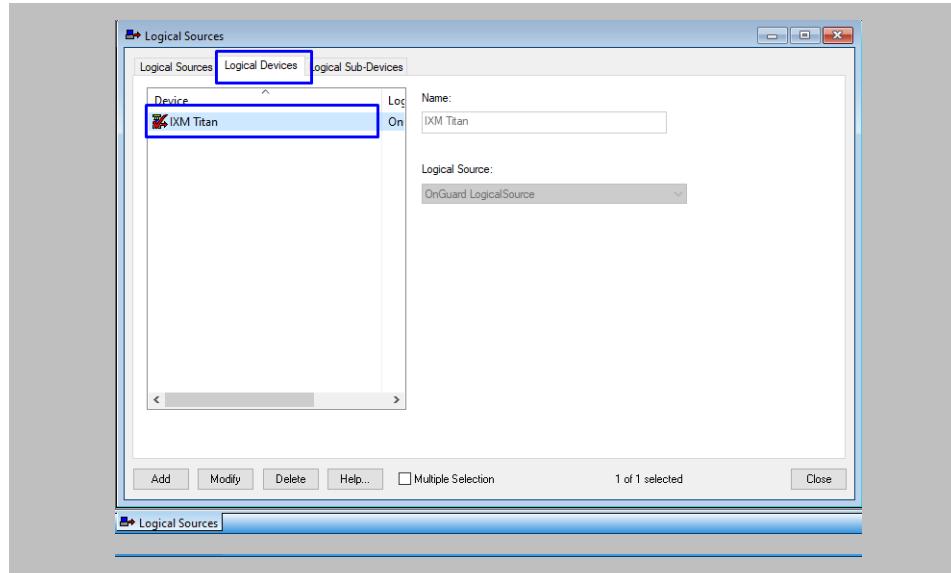


Figure 101: OnGuard - Logical Devices List

#### 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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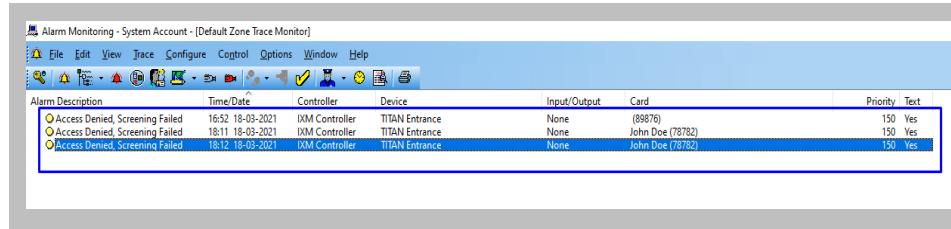




Figure 102: OnGuard - Mask and Thermal Events

**STEP 14**

**STEP 14**

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

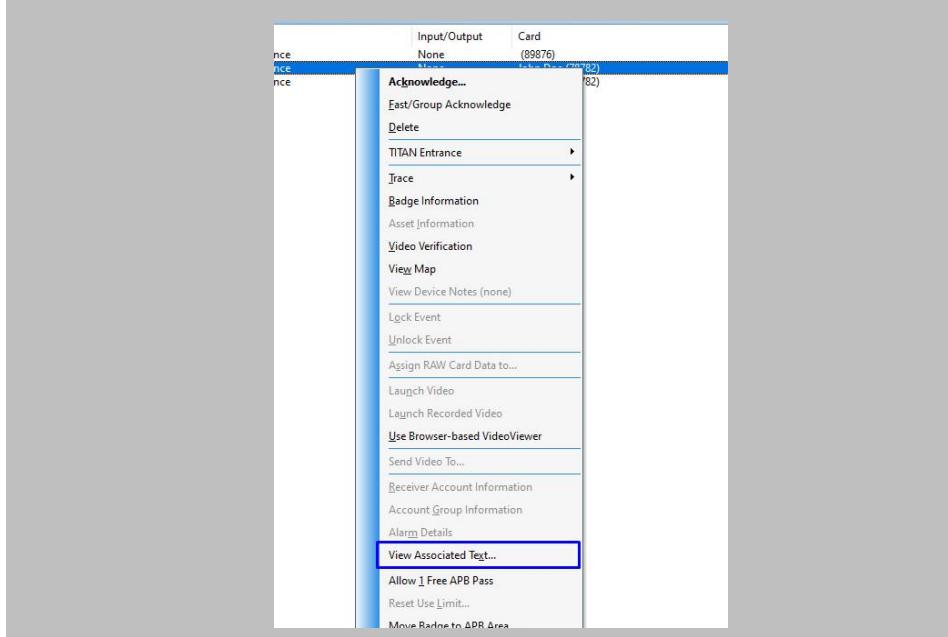
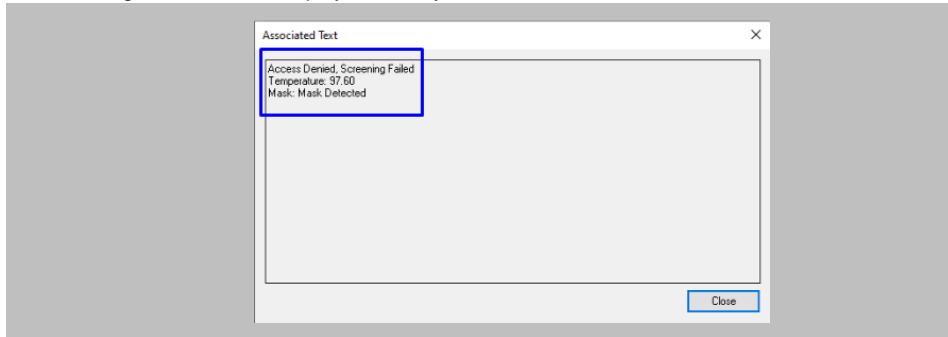


Figure 103: OnGuard - View Associated Text

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**.

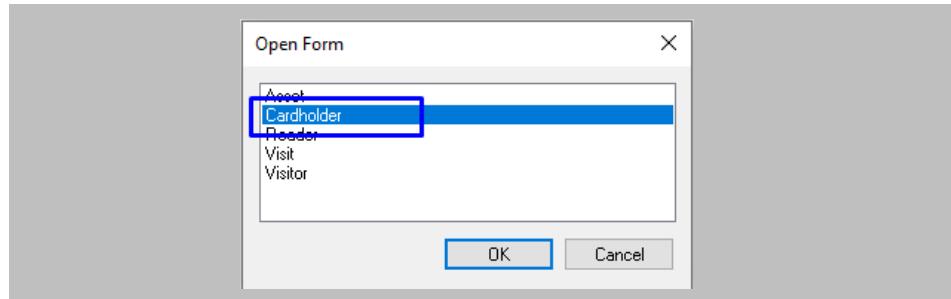


Figure 105: OnGuard - Custom Pin

### STEP 2

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

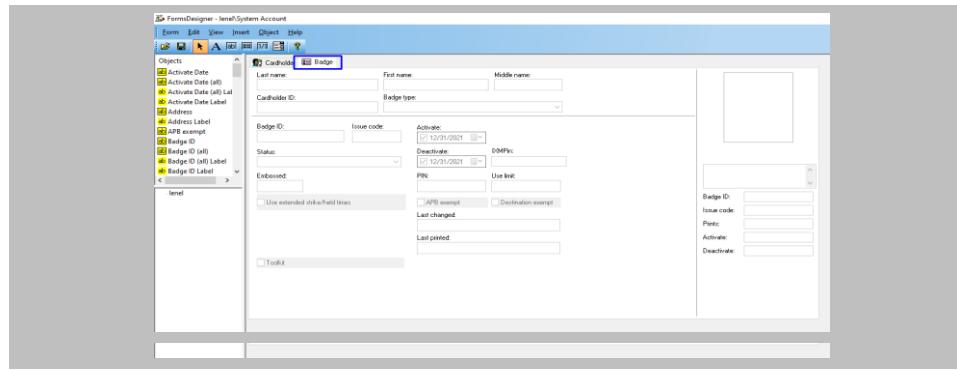


Figure 106: OnGuard - Badge Custom Pin

### STEP 3

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

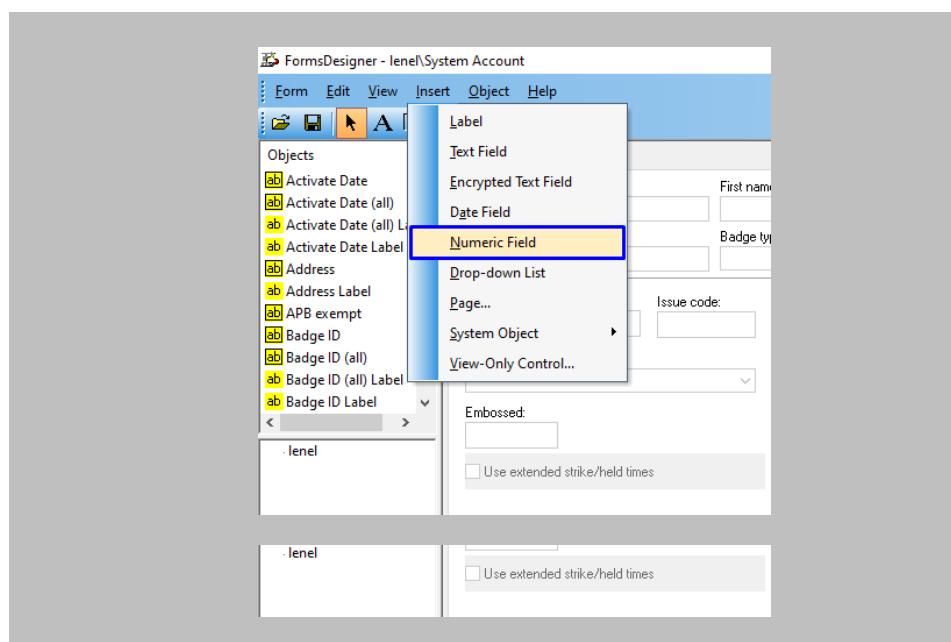


Figure 107: OnGuard - Add Numeric Field

A screenshot of the OnGuard application showing a form for managing badges. The form includes fields for Cardholder ID, Badge ID, Issue code, Activate date (set to 12/31/2021), Deactivate date (set to 12/31/2021), Status, Embossed, PIN, Use limit, APB exempt, Destination exempt, Last charged, Last printed, and Toolkit. A specific numeric field in the Activate date section is highlighted with a blue rectangle. To the right of the form, there's a note: "Formatted: Font: Font color: Custom Color(RGB(35,31,32))".

Figure 108: OnGuard - Add Numeric Field

A screenshot of the OnGuard software interface. The main window shows a form for managing badge information, including fields for Cardholder ID, Badge ID, Issue code, Activate date (12/31/2021), Deactivate date (12/31/2021), Status, Embossed, PIN, Use limit, APB exempt, Destination exempt, Last charged, Last printed, and Toolkit. To the right, there is a preview area showing a badge template with placeholder text for badge ID, issue code, print, activate, and deactivate fields. A red box highlights the 'Activate' date field.

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Figure 111: OnGuard—Design Numeric Field

#### STEP 4

Enter 'Field Name' → OK.

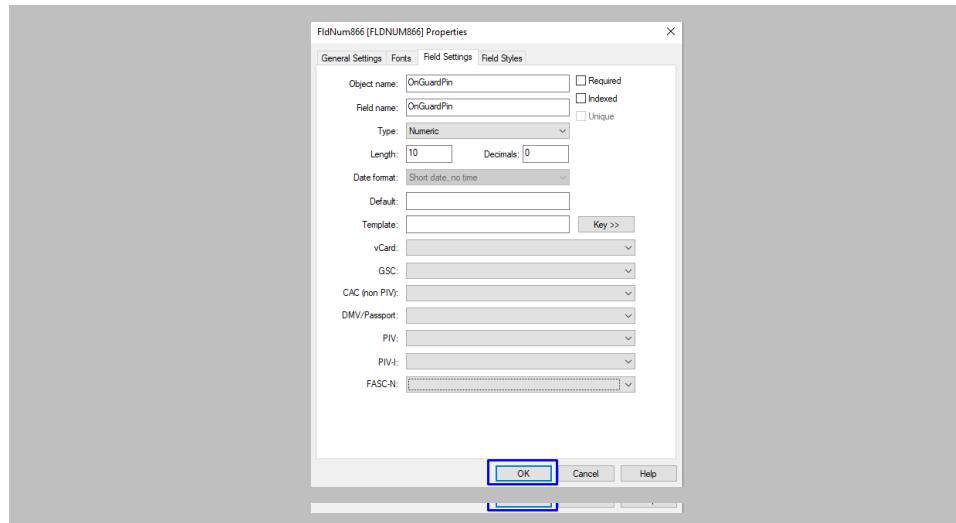


Figure 109: OnGuard - Save Numeric Field

#### STEP 5



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

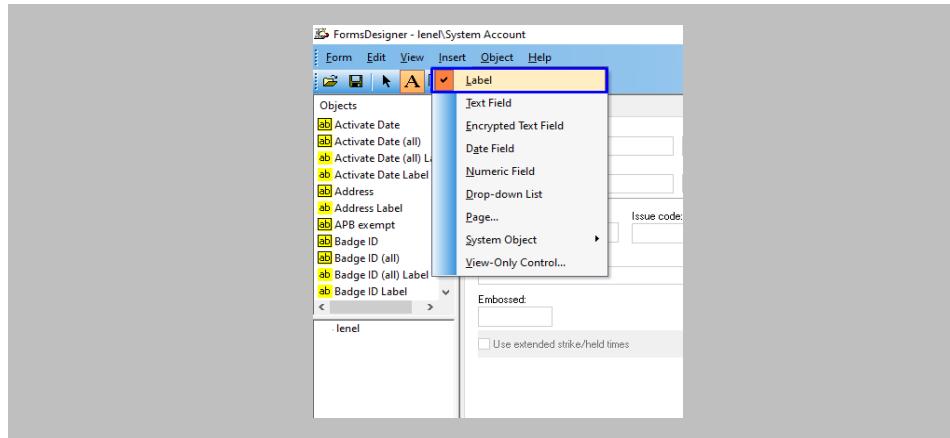


Figure 110: OnGuard - Add Label

**STEP 6**

**Enter 'Text' → OK.**

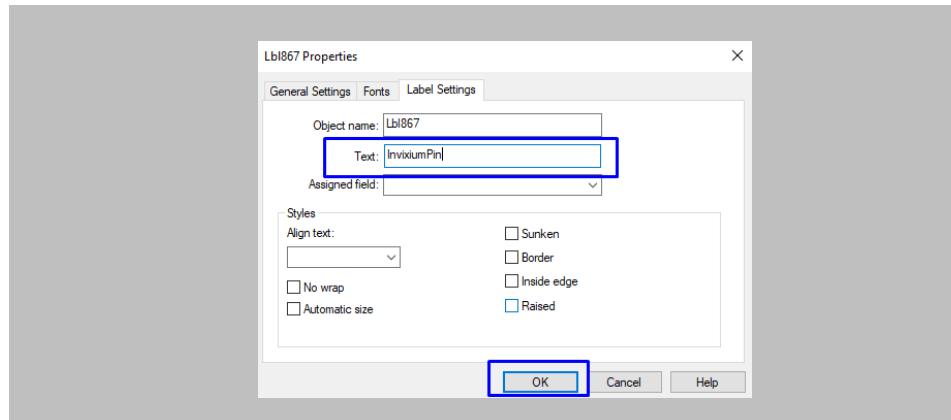


Figure 111: OnGuard - Add Label

**STEP 6**

**Enter 'Text' → OK.**

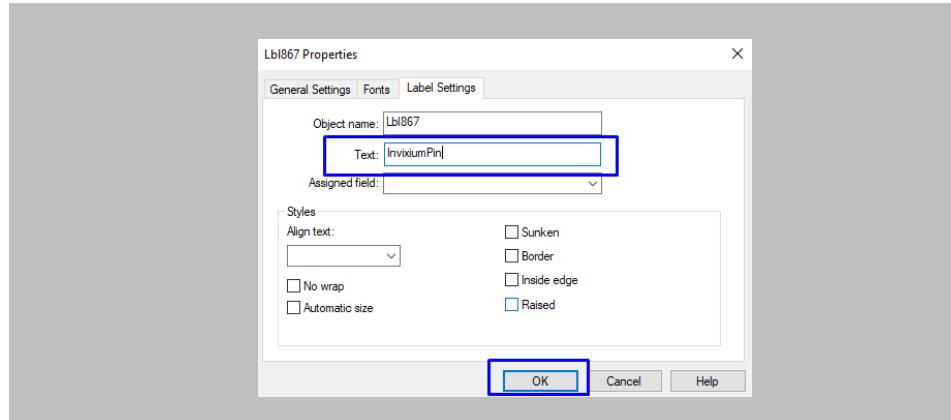




Figure 114: OnGuard—Save Label

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

The screenshot shows a software interface for managing badges. On the left, there's a 'Cardholder' tab and a 'Badge' tab. Under the 'Badge' tab, various fields are displayed: Last name, First name, Middle name, Cardholder ID, Badge type, Badge ID, Issue code, Activate date (set to 12/31/2021), Status, Deactivate date (set to 12/31/2021), and a custom field labeled 'Invixium Pink' which is highlighted with a blue rectangle. Below these are fields for Embossed, PIN, Use limit, and several checkboxes for extended strike/held times, APB exempt, Destination exempt, Last changed, and Last printed. At the bottom left is a 'Toolkit' button. On the right side, there's a preview area showing a badge template and a summary section with fields for Badge ID, Issue code, Prints, Activate, and Deactivate.

Figure 112: OnGuard - IXM WEB Custom Pin



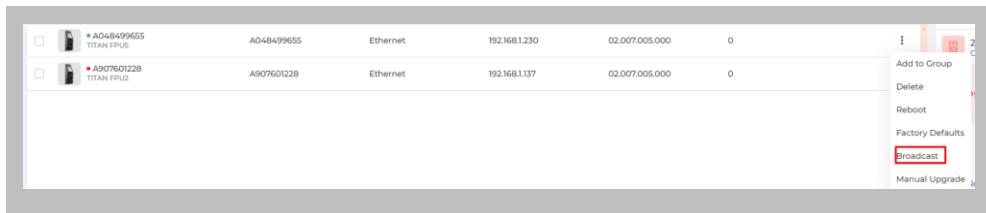
## 21.18. Appendix

### 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



side.

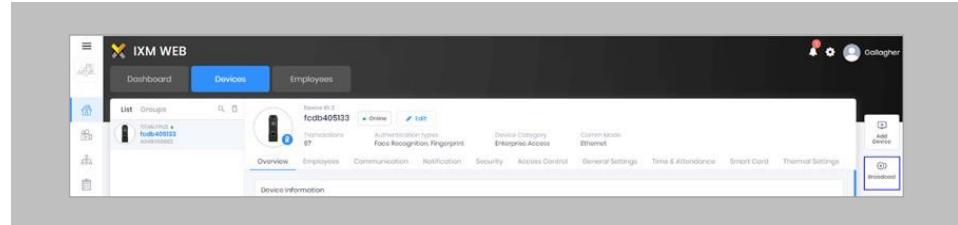


Figure 113: IXM WEB - Broadcast Option

#### STEP 2



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

The screenshot shows the 'Broadcast' interface with the 'Select' button highlighted. In the 'Access Control' section, the 'Wiegand Output' checkbox is checked and highlighted with a blue border. The 'Broadcast' button at the bottom is also highlighted with a blue border.

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This screenshot shows the same 'Broadcast' interface as above, but the 'Wiegand Output' checkbox is now unchecked. The 'Broadcast' button at the bottom is also unhighlighted.

Figure 114: IXM WEB - Wiegand Output Selection in Broadcast

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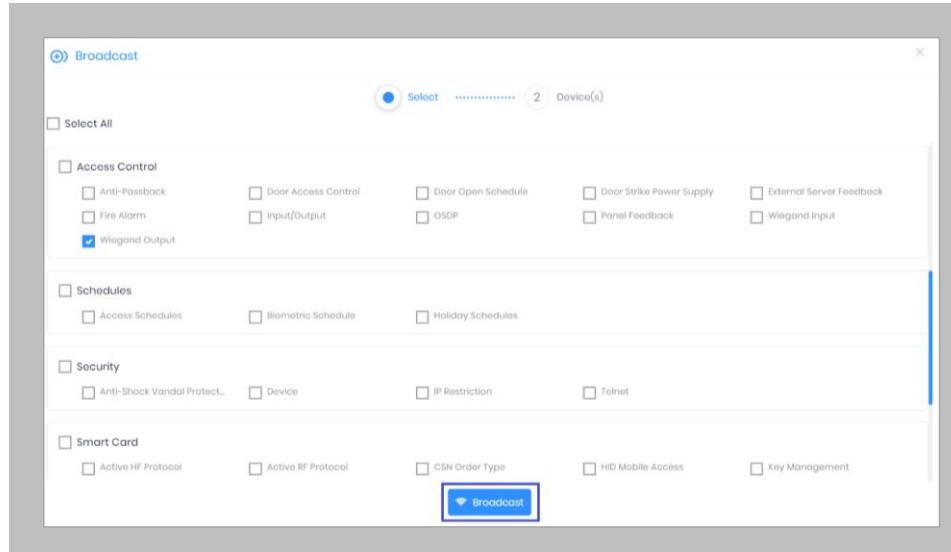
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**STEP 3**

**Click Broadcast.**



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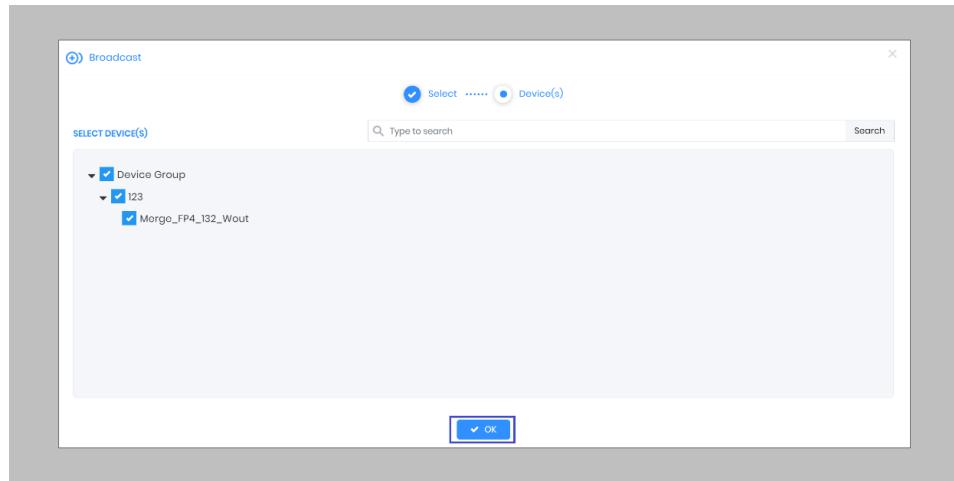
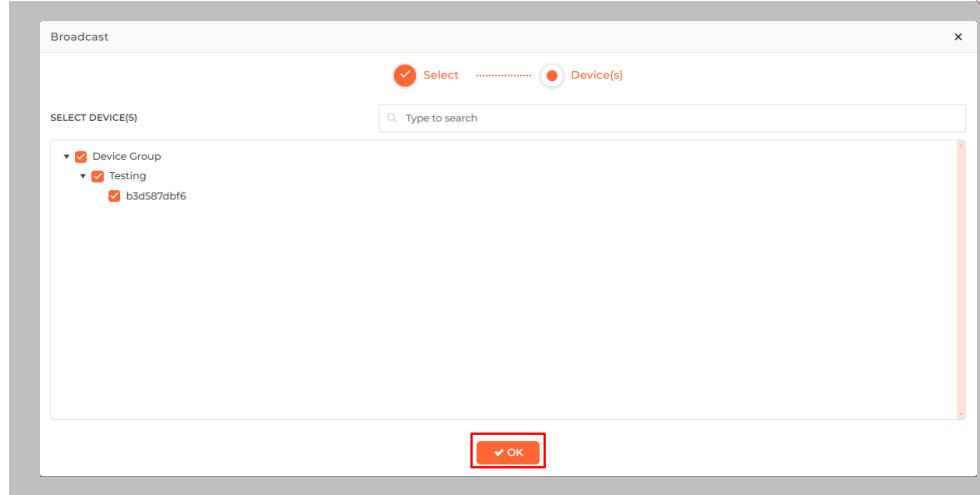
Figure 115: IXM WEB - Broadcast Wiegand Output Settings



#### 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

Event	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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A screenshot of the IXM WEB software interface showing the OSDP Settings page. The page includes sections for 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 input field, HEX dropdown), and OSDP Events (Events: Access Granted, Access Denied, Enter PIN, Dual Authentication). Each event has settings for On Color (Red, Green, Yellow, Blue), Off Color (None), On Time (0 msec), Off Time (0 msec), and Display Message (checkboxes checked for all four events). At the bottom are Apply and Reset buttons.

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>SmartCard</b> <b>Smartcard 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



	can be added as TEXT or HEX.
Event	<p>The OSDP static events for panel feedback and capture pin are:</p> <ul style="list-style-type: none"> <li>Access Granted</li> <li>Access Denied</li> <li>Enter PINPin</li> </ul> <p>Dual <u>Authentication</u> – It is an access mode <u>that which</u> requires valid access by two authorized cardholders to enter an access zone within a specified time period. This feature is available only if <u>the Multi-User Authentication</u> feature is enabled and configured. To configure <u>the Multi-User Authentication</u> feature, from <b>Home</b>, click the <b>Devices</b> tab. Select the required Device and navigate to <b>General Settings</b>. Click on <u>the Multi-User Authentication</u> section. <u>Upon On</u> enabling this feature, the following actions will be performed:</p> <ul style="list-style-type: none"> <li>• The Device will request <u>for</u> 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>
On Color/Off Color	<p>The LED color configuration <u>is</u> 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>
Enable VISITOR OSDP	<p>The option sends card details to ACP even if the card is not assigned to any employee on device. Based on response from ACP, device will display "Access Granted" or "Access Denied".</p>

Table 5: IXM WEB - OSDP Configuration Options

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

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

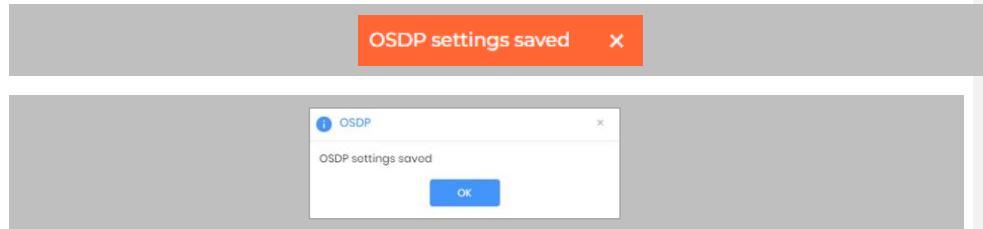


Figure 118: IXM WEB - Save OSDP Settings

### 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**.

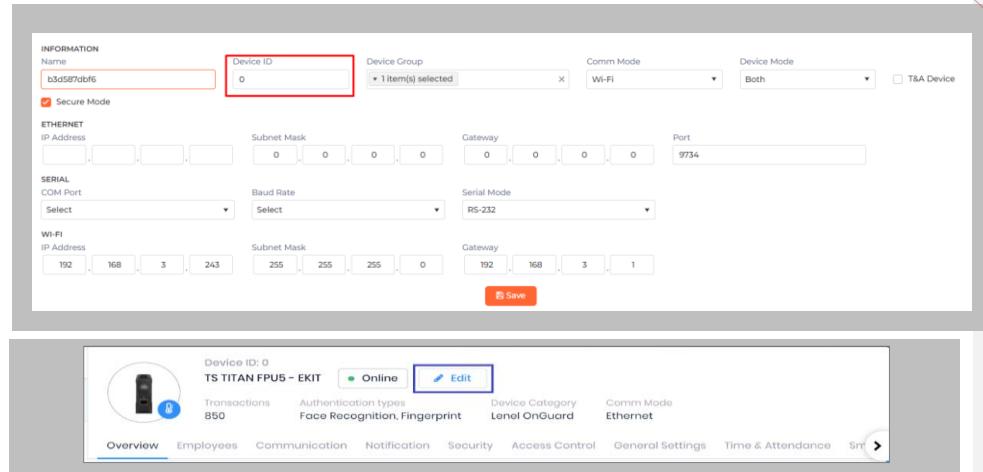


Figure 119: IXM WEB - Edit Device



Figure 120 shows the "Edit Device" interface from the IXM WEB application. The interface is divided into several sections:

- INFORMATION**: Fields include Name (TS TITAN FPLUS - EXIT), Device ID (0), Device Group (1 item(s) selected), Comm Mode (Ethernet), Device Mode (Both), and a checkbox for T&A Device.
- NETWORK**:
  - Ethernet**: IP Address (192.168.2.145), Subnet Mask (255.255.255.0), Gateway (192.168.2.1), Port (9734).
  - Serial**: COM Port (Select), Baud Rate (Select), Serial Mode (RS-232).
  - Wi-Fi**: IP Address (0.0.0.0), Subnet Mask (0.0.0.0), Gateway (0.0.0.0).
- Buttons**: A "Save" button at the bottom right.

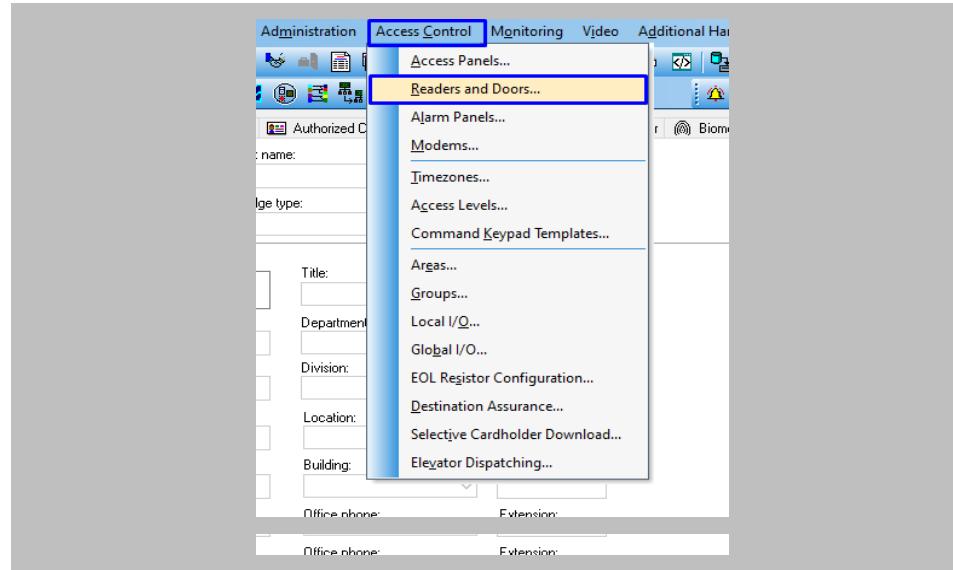
Figure 120: IXM WEB - Edit Device Options



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## 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**.

The screenshot shows the 'General' tab of the 'Reader' configuration window in OnGuard. The 'Name' field is set to 'IXM TITAN'. The 'Panel' dropdown is set to 'LNL Panel'. The 'Type' dropdown is set to 'Onboard Reader'. The 'Output' dropdown is highlighted with a blue box and set to 'OSDP Protocol'. Other settings include 'Port: Onboard', 'Address: 0', 'Gateway Address: 0', 'IP Port: 0', 'Reader number: 0', and 'Primary Reader'. Under 'Reader Modes', 'Online' is set to 'Card Only' and 'Offline' is also set to 'Card Only'. The 'Encrypted Communications Mode' dropdown is set to 'None'. At the bottom are 'OK', 'Cancel', 'Clear', and 'Help...' buttons.

This screenshot shows the same configuration window after the changes have been applied. The 'Output' dropdown remains highlighted in blue and set to 'OSDP Protocol'. All other fields and settings are identical to the first screenshot.

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.

The screenshot shows the 'Panel Feedback' configuration window. Under 'LED Control By Panel', 'LED Mode' is set to 'Two LED' and 'Timeout (msec)' is set to '3000'. There is a red box highlighting the 'LED Control By Panel' checkbox.

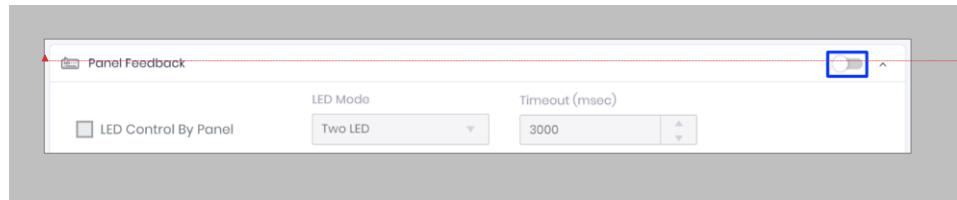
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Figure 123: IXM WEB - Disable Panel Feedback

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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

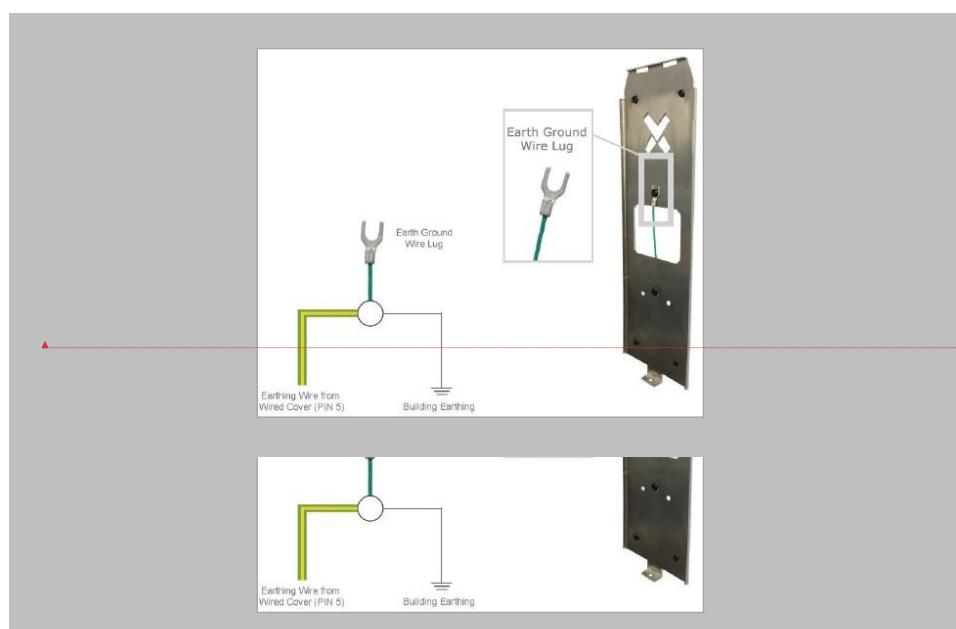
Connect the **green** and **yellow** earth wire from the wired back cover.

#### 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.

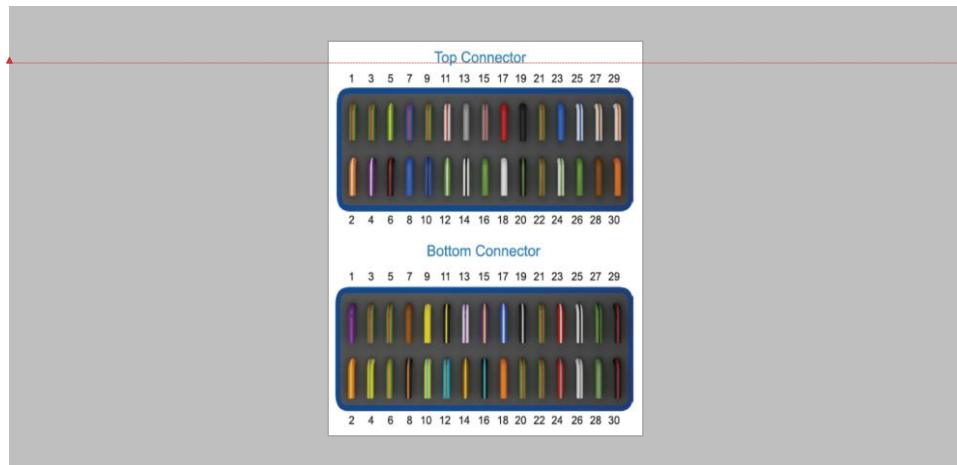


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[Figure 125: Earth Ground Wiring](#)

### Wiring



[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		SQND	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				
Blue/Black		RS485_D-	10				
White/Red		RLY_NC	11				
Green/White		WDATA_IN0	12				
Grey		RLY_COM	13				
White/Black		WDATA_IN1	14				
Grey/Red		RLY_NO	15				

POWER  
 Wiegand  
 OSDP

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		SQND	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				
Blue/Black		RS485_D-	10				
White/Red		RLY_NC	11				
Green/White		WDATA_IN0	12				
Grey		RLY_COM	13				
White/Black		WDATA_IN1	14				
Grey/Red		RLY_NO	15				

POWER  
Wiegand  
OSDP

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

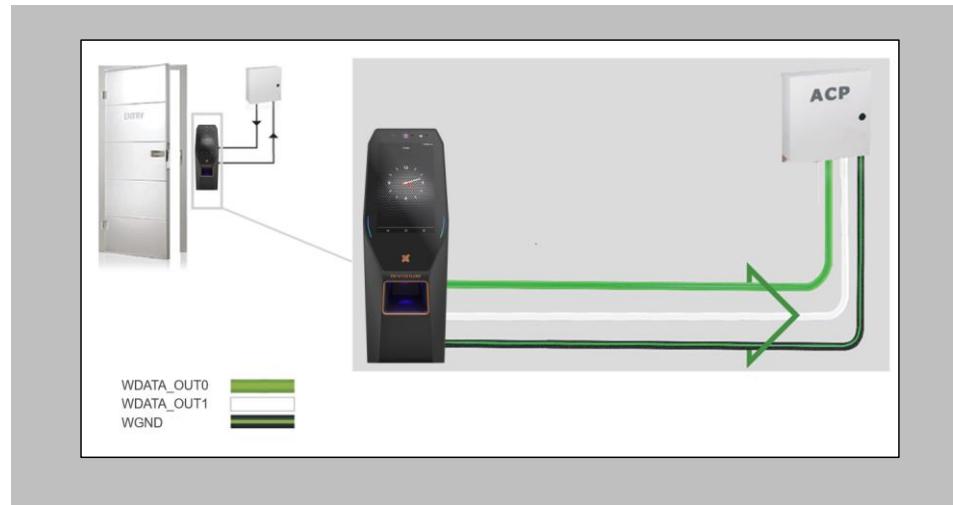


Figure 127: IXM TITAN - Wiegand



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



## Wiegand Connection with Panel Feedback

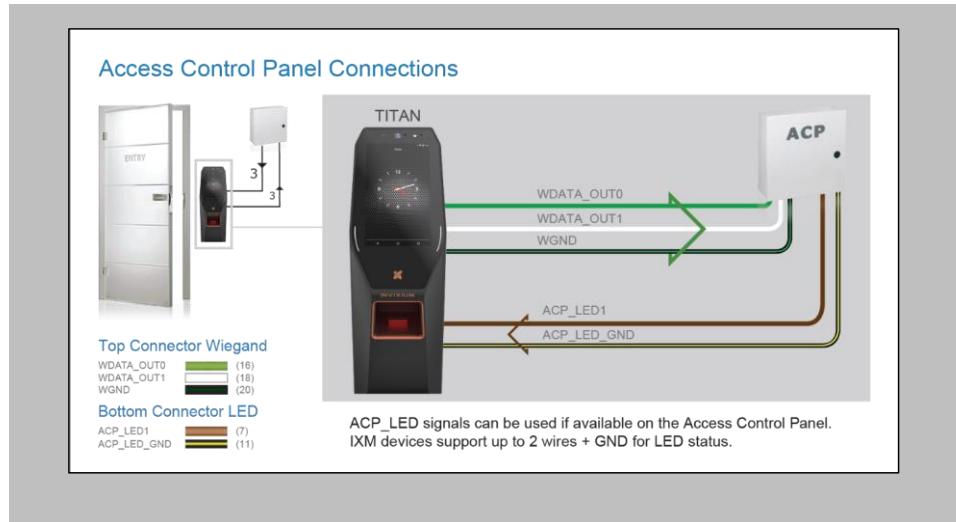


Figure 128: IXM TITAN - Panel Feedback

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## OSDP Connections

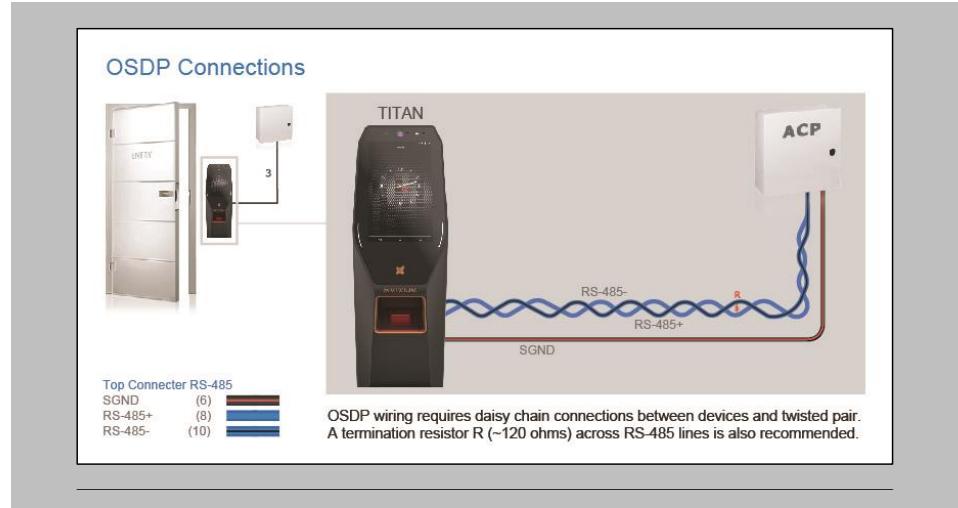


Figure 129: IXM TITAN - OSDP Connections



## 23.19. -Troubleshooting

### Reader Offline from the IXM WEB Dashboard

**i** Note: Confirm communication between the Communication of IXM WEB server and the Invixium reader.

#### Procedure

##### STEP 1

From Home, click the Devices tab.

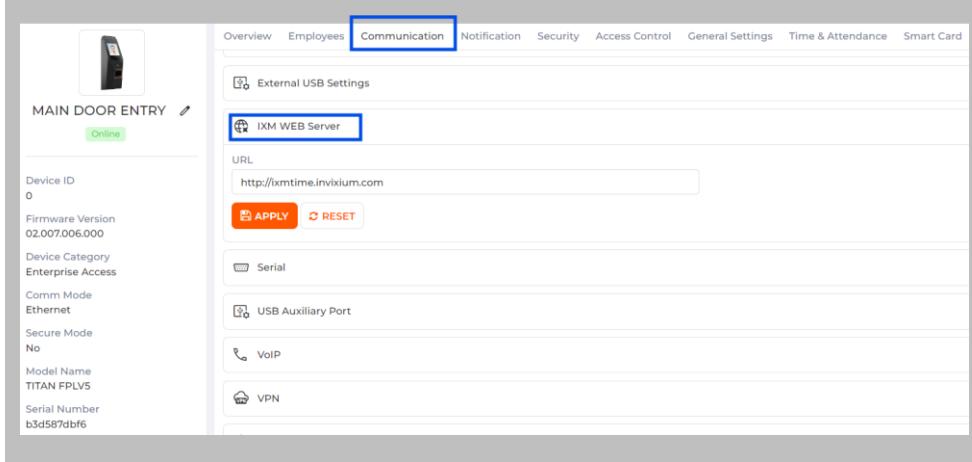
##### STEP 2

Select any device.

##### STEP 3

##### STEP 2

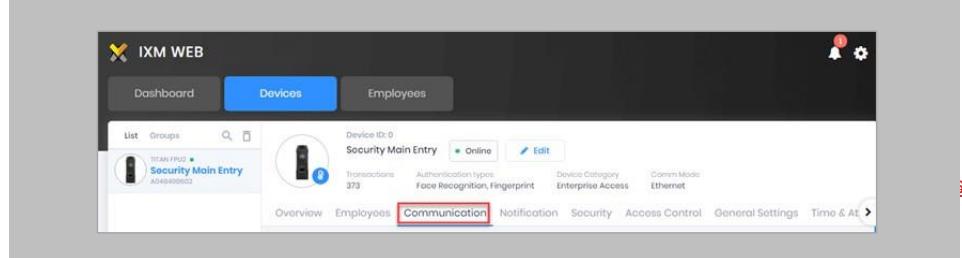
Navigate to the Communication tab.



The screenshot shows the IXM WEB dashboard with the 'Devices' tab selected. A specific device, 'MAIN DOOR ENTRY', is highlighted. The 'Communication' tab is active, showing the following configuration:

- External USB Settings: Enabled (checkbox checked).
- IXM WEB Server: URL is set to <http://ixmtime.invixium.com>. Buttons: **APPLY** and **RESET**.
- Serial: (checkbox)
- USB Auxiliary Port: (checkbox)
- VoIP: (checkbox)
- VPN: (checkbox)

Device details on the left:  
Device ID: 0  
Firmware Version: 02.007.006.000  
Device Category: Enterprise Access  
Comm Mode: Ethernet  
Secure Mode: No  
Model Name: TITAN FPLV5  
Serial Number: b3d587dbf6



This screenshot shows the same IXM WEB dashboard interface, but the 'Communication' tab is not highlighted. The 'Devices' tab is selected. The device 'MAIN DOOR ENTRY' is listed with its status as 'Online'. The 'Communication' tab is visible in the bottom navigation bar.

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



#### STEP 4

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

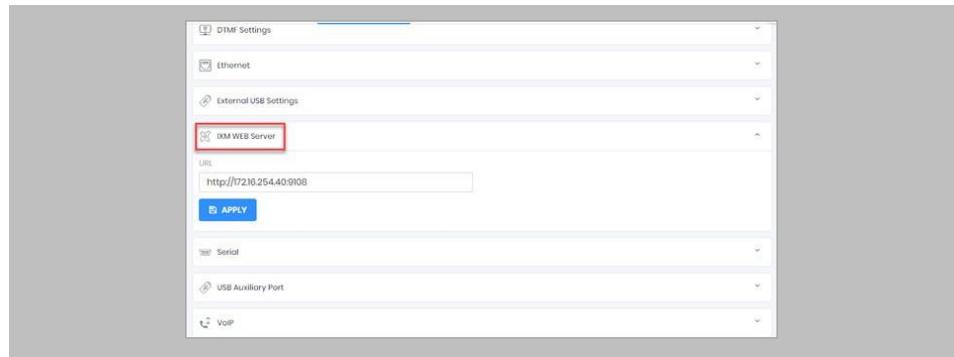


Figure 131: IXM WEB - Server URL Setting

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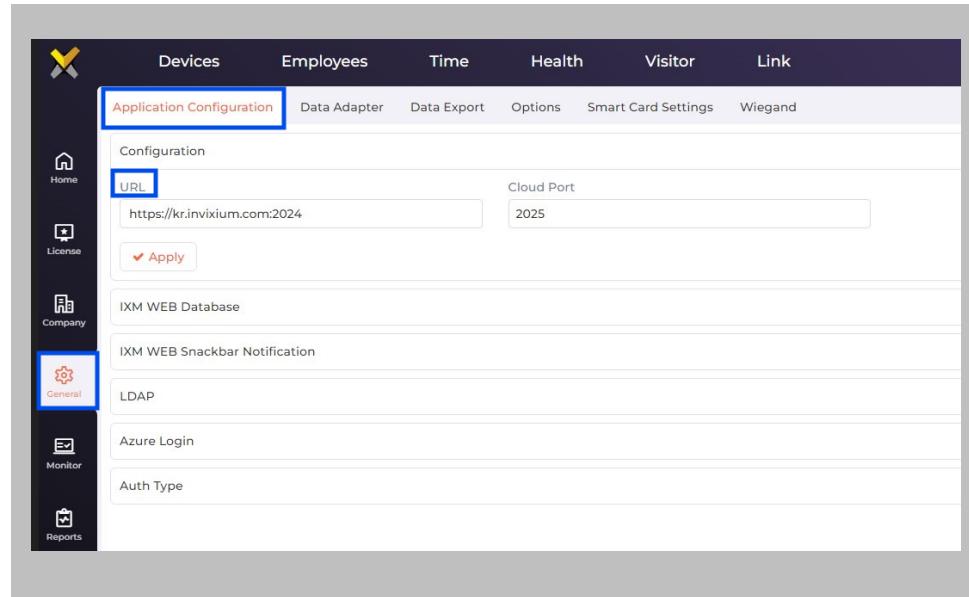
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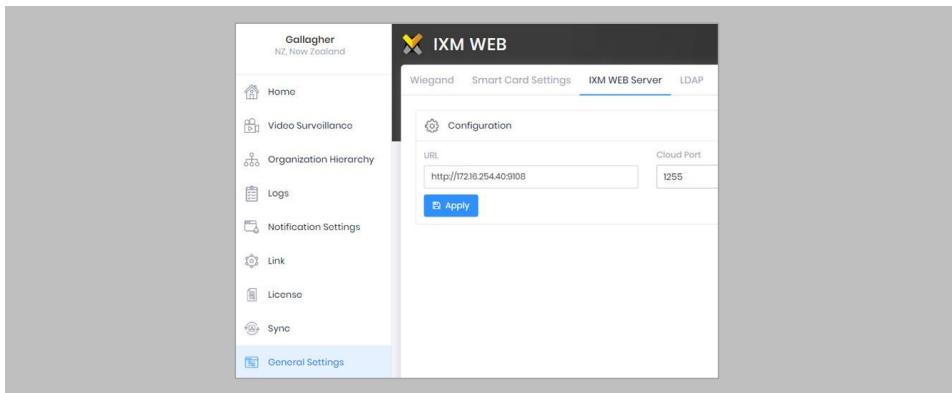
~~STEP~~ In case of IP Address or URL of IXM WEB Server is changed; perform below step to update all registered device(s).

6



The screenshot shows the IXM WEB application's configuration interface. The top navigation bar includes tabs for Devices, Employees, Time, Health, Visitor, and Link. The 'Application Configuration' tab is selected, highlighted with a blue border. Below the tabs, there's a 'Configuration' section with a 'URL' field containing 'https://kr.invixium.com:2024'. To its right is a 'Cloud Port' field with the value '2025'. A blue rectangular box highlights the 'URL' field. A red box highlights the 'Apply' button. On the left sidebar, under the 'General' category, there are several other settings like 'IXM WEB Database', 'IXM WEB Snackbar Notification', 'LDAP', 'Azure Login', and 'Auth Type'. The 'General' icon is also highlighted with a blue box.

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



This screenshot shows the 'IXM WEB' application's configuration interface. It has a similar structure to the previous one, with tabs for Wiegand, Smart Card Settings, IXM WEB Server (which is selected), and LDAP. The 'Configuration' section shows a 'URL' field with 'http://172.18.254.40:9108' and a 'Cloud Port' field with '1255'. A blue box highlights the 'URL' field. The left sidebar includes 'Organization Hierarchy', 'Logs', 'Notification Settings', 'Link', 'License', 'Sync', and 'General Settings', with 'General Settings' being highlighted by a blue box.

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



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

Procedure

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**STEP 1**



~~Note: Confirm module activation~~

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

A screenshot of the IXM WEB interface. The top navigation bar includes 'Devices', 'Employees', and 'Link'. Below the navigation is a grid of service modules: IXM TIME (green), IXM VISITOR (light blue), IXM LINK (light blue), IXM CONVERT (orange), IXM HEALTH (light blue), IXM MOBILE (light blue), IXM TRANSLATE (light blue), IXM API (red), DATA ADAPTER (orange), and CREDENCE ID (green). A sidebar on the left shows icons for Home, License (highlighted in red), Company, General, and Monitor. At the bottom, a 'ACTIVATION HISTORY' section displays details for an activation by 'ONGUARD' (Created By: ixm.local\havdavia) on '06/24/2024 17:48:39 PM' with a Type of 'Perpetual', Validity of 'Unlimited', and Validity Remaining '&gt;'. A green button labeled 'Activated' is visible.

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.

A screenshot of the OnGuard Control Panel. The interface includes fields for Mode (Event Subscription), WEB API URL (https://92.168.1.207:8080/api/access/onguard/openaccess/), User (sa), Password (\*\*\*\*\*), Map Access Level to User Group (Yes), Employee Group (Select value), Directory (&lt;internal&gt;), PIN Custom Field Name (PINNUM), and Auto Transfer (No). Below these are sections for ACTIVITIES and Numbers in IXM WEB (192 Added, 8 Deleted, 577 Events). A red toast notification at the bottom center states: "The license for this application is currently unavailable." A small 'X' icon is in the top right corner of the toast.

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 to none from **IXM WEB** → **Device** → **Access control settings** → **Wiegand Output**.

Overview Employees Communication Notification Security **Access Control** General Settings Time & Attendance Smart Card Thermal Settings

**Wiegand Output**

	ID Type	Duress
Wiegand	Employee ID	None
Identification	Standard 26 bit	None
Verification	Standard 26 bit	None
Anti-Shock	IXM 8bit Device S/N	ID Value
Heart Beat	Format	Device Serial Number
Employee not found	Format	ID Value
Thermal Authentication	Format	Device ID
Mask Not Detected	Format	Interval (sec)
Invalid Attestation Questions	Format	60

List Groups Q **Device ID: 2** Security Main Entry Online Edit

Transactions Authentication types Face Recognition Fingerprint Device Category Enterprise Access Comm Mode Ethernet

Overview Employees Communication Notification Security **Access Control** General Settings Time & Attendance Smart Card

**Wiegand Output**

	ID Type	Duress
Wiegand	Actual Card	None
Identification	Gallagher 40 Bits	Gallagher 40 Bits
Verification	Gallagher 40 Bits	Gallagher 40 Bits
Anti-Shock	IXM 8bit Device S/N	ID Value
Heart Beat	Format	Device Serial Number
Employee not found	Format	ID Value
Thermal Authentication	Format	Device ID
Mask Not Detected	Format	Interval (sec)
Pulse (msec)	Width	60
	Interval	3000

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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** →

A screenshot of the IXM WEB application showing the 'Device Log' section. It includes a checkbox for 'Capture Device Logs', four buttons ('APPLY', 'DOWNLOAD', 'DELETE', 'RESET'), and a large empty text area below.

Navigate to the **General Settings** tab for the device → Click on **Device Log** → Enable Capture Device Logs.

A screenshot of the IXM WEB application showing the 'General Settings' tab selected. Under the 'Device Log' section, the 'Capture Device Logs' checkbox is checked. Below it are the same four buttons ('APPLY', 'DOWNLOAD', 'DELETE', 'RESET').

Figure 134: IXM WEB - Enable Device Logs

A screenshot of the IXM WEB application showing the 'General Settings' tab selected. A file download overlay is visible in the top right corner, showing two files: 'DeviceLog\_A048499655\_20.37.ency' (147 kB) and '.IXM\_DB.Upgrade.2\_3\_2\_0\_to\_3\_19\_6.20.24.bak' (652 MB). The bottom of the screen shows the 'Device Log' section with the 'Capture Device Logs' checkbox checked and the same four buttons ('APPLY', 'DOWNLOAD', 'DELETE', 'RESET').



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

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The screenshot shows the Invixium TSTOUCH2FP2 device configuration interface. On the left, there's a navigation menu with sections like Overview, Employees, Communication, Notification, and Sensors. Under the 'Communication' tab, there's a 'Capture Device Logs' checkbox. Below it are buttons for APPLY, DOWNLOAD, DELETE, and RESET. The 'DOWNLOAD' button is highlighted in blue. On the right, there's a 'DeviceLogs.ency' download dialog from Firefox. The dialog says: 'You have chosen to open: DeviceLogs.ency which is: ency File (1.5 MB) from: http://192.168.1.60:9108'. It has two options: 'Open with' (with a 'Browse...' button) and 'Save File' (which is selected). There's also a checkbox 'Do this automatically for files like this from now on.' At the bottom are 'OK' and 'Cancel' buttons.

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



## 24.20. -Support

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

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25.

## 26.21. -Disclaimer and Restrictions

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