

# IXM WEB Integration with AEOS by Nedap

Installation Instructions

V6.0





# **Table of Contents**

1. Introduction	10
Purpose	10
Description	10
Acronyms	10
Field Mappings	11
2. Compatibility	12
Invixium Readers	12
Software Requirements	12
Other Requirements	13
Compatibility Matrix for IXM WEB & Nedap AEOS Integra	tion:
3. Checklist	14
4. Task List Summary	15
5. Prerequisites for AEOS and IXM WEB Integration	on16
Enable Soap WebService	
6. Prerequisites for Installing Invixium IXM WEB S	Software19
Getting IXM WEB activation key	19
Minor Checklist and Considerations	21
7. Installing IXM WEB	22
Software Installation	22
8. Configuring Email Settings Using IXM WEB	31
Email Setting Configuration	31
9. Software and Module Activation	35
IXM WEB Activation	35
Nedap AEOS Module Activation	38
10. Configuring IXM Link for Nedap AEOS	41
11. Configuring Events in Nedap AEOS	47
Prerequisite	47



Configure Events	53
12. Create System User(s) for Biometric Enrollment	59
13. Add and Configure Invixium Readers	63
Adding an Invixium Reader in IXM WEB	63
14. Adding an Invixium Device to a Device Group	68
Configuring Wiegand Format to Assign Invixium Readers	69
Assign Wiegand to Invixium Readers	72
Configuring Panel Feedback with Nedap	75
15. Enrollment from Nedap AEOS	77
Pre-configuration for enrollment	77
Enrollment using Nedap Dashboard URL (recommended)	88
Enrollment using Nedap AEOS application	90
16. Enrollment Best Practices	92
Fingerprint Enrollment Best Practices	92
Avoid Poor Fingerprint Conditions	92
Fingerprint Image Samples	93
Fingerprint Imaging Do's and Don'ts	94
Finger Vein Enrollment Best Practices	95
Face Enrollment Best Practices	96
17. Prerequisites for Getting Access in AEOS	97
18. OSDP Configuration	116
19. DIP Configuration	127
20. Wiegand Configuration	143
21. Appendix	149
Pushing Configuration to Multiple Invixium Readers	149
Wiring and Termination	152
WIRING	153
Wiegand Connection	155
Wiegand Connection with Panel Feedback	156



OSDP Connections	157
22. Troubleshooting	158
23. Support	163
24. Disclaimer and Restrictions	163
List of Figures	
List of Figures	
Figure 1: AEOS - Settings	
Figure 2: AEOS – System Properties	
Figure 3: System Properties – Soap WebService	
Figure 4: AEOS Application Server	
Figure 5: IXM WEB Online Request Form	
Figure 6: Sample Email After Submitting Online Request Form	
Figure 7: IXM WEB Installer	22
Figure 8: Advanced Option in IXM WEB Installer	23
Figure 9: IXM WEB Installation	24
Figure 10: IXM WEB Installation Completed	25
Figure 11: IXM WEB Icon - Desktop Shortcut	26
Figure 12: SQL Database Configuration	27
Figure 13: IXM WEB Administrator User Configuration	28
Figure 14: IXM WEB Login Page	30
Figure 15: Configure Email	31
Figure 16: IXM WEB - SMTP Settings	32
Figure 17: IXM WEB - Save Email Settings	32
Figure 18: IXM WEB – Test Connection	33
Figure 19: IXM WEB - Forgot Password	34
Figure 20: IXM WEB - Enter Login Credentials	
Figure 21: IXM WEB - License Setup	36
Figure 22: IXM WER - Online Activation	27



Figure 23: IXM WEB - Nedap Link Activation	38
Figure 24: Nedap AEOS License Key Email	39
Figure 25: IXM WEB - Activate Nedap AEOS Link License	40
Figure 26: IXM WEB - Link Menu	41
Figure 27: IXM WEB - Enable Nedap AEOS Link Module	42
Figure 28: IXM WEB - Sync Direction	43
Figure 29: IXM WEB - Auto Transfer No	43
Figure 30: IXM WEB - Auto Transfer Yes	44
Figure 31: IXM WEB - Sync Activities	45
Figure 32: AEOS aepu service	47
Figure 33: AEmon – Virtual AEpu	48
Figure 34: AEmon – Interface Server	49
Figure 35: AEmon – Interface Server Properties	50
Figure 36: AEmon – Identifier Type for incoming events	52
Figure 37: IXM WEB - Link Menu	53
Figure 38: IXM WEB – Events Configuration	54
Figure 39: AEmon – Interface Server Identifier Type	55
Figure 40: IXM WEB - Create System User	59
Figure 41: IXM WEB - Add New System User	60
Figure 42: IXM WEB - New System User	61
Figure 43: Employee and Employee Group Rights	62
Figure 44: IXM WEB - Save System User	62
Figure 45: IXM WEB - Devices Tab	63
Figure 46: IXM WEB - Search Device Using IP Address	64
Figure 47: IXM WEB - Register Device	65
Figure 48: IXM WEB - Device Registration Complete	66
Figure 49: IXM WEB - Dashboard, Device Status	67
Figure 50: IXM WEB - Assign Device Group	68
Figure 51: IXM WEB - Create Wiegand Format	69
Figure 52: IXM WEB - Create Custom Wiegand Format	70
Figure 53: IXM WEB - Custom Wiegand Format	70



Figure 54: IXM WEB – Custom Wiegand Format Created	71
Figure 55: IXM WEB - Upload Wiegand Format	71
Figure 56: IXM WEB - Navigate to Access Control Tab	72
Figure 57: IXM WEB - Wiegand Output	73
Figure 58: IXM WEB - Save Output Wiegand	74
Figure 59: IXM WEB - Panel Feedback	75
Figure 60: IXM WEB - Configuring Panel Feedback in IXM WEB	76
Figure 61: IXM WEB - Save Panel Feedback	76
Figure 62: AEOS- Import Trusted Certificate	77
Figure 63: AEOS - Identifiers	79
Figure 64: AEOS - Identifier Type Selection	80
Figure 65: AEOS - Add New Identifier Type	80
Figure 66: AEOS - New Identifier Type	81
Figure 67: AEOS- Settings	82
Figure 68: AEOS - System Properties	83
Figure 69: AEOS - System Properties Default Identifier	84
Figure 70: AEOS - System Properties Default BioAPI Verification	85
Figure 71: AEOS - System Properties Enable Biometric API	85
Figure 72: AEOS - Save System Properties	86
Figure 73: Nedap Dashboard Badge Editor	88
Figure 74: AEOS - Enroll Button	90
Figure 75: AEOS - Biometric Enrollment	91
Figure 76: Fingerprint Enrollment Best Practices	92
Figure 77: Fingerprint Images Samples	93
Figure 78: Finger Vein Enrollment Best Practices	95
Figure 79: Face Enrollment Best Practices	96
Figure 80: AEmon – Aepu	97
Figure 81: AEmon - AEpu Configuration	98
Figure 82: AEmon - Add Standard Door	99
Figure 83: AEmon - Rename Component	100
Figure 84: AEmon - Rename Standard Door	101



Figure 85: AEmon - Deploy Configuration	101
Figure 86: AEOS - Confirm Access Points	102
Figure 87: AEOS - Add Access Point	102
Figure 88: AEOS - Access Point	103
Figure 89: AEOS – Entrances	103
Figure 90: AEOS - New Entrance	104
Figure 91: AEOS - Create New Entrance	104
Figure 92: AEOS - Add Access Point in Entrance	105
Figure 93: AEOS - Save Entrance	105
Figure 94: AEOS – DayTimeSchedules	106
Figure 95: AEOS - New Weekly Schedule	106
Figure 96: AEOS - Define Weekly Schedule	107
Figure 97: AEOS - Entrance Groups	107
Figure 98: AEOS - New Entrance Group	108
Figure 99: AEOS - Add Entrance in Entrance Group	108
Figure 100: AEOS - Add Entrance Group	109
Figure 101: AEOS - Save Entrance Group	109
Figure 102: AEOS – Template	110
Figure 103: AEOS - New Template	110
Figure 104: AEOS Template - Add Entrance Group	111
Figure 105: AEOS Template - Add Entrance Group	111
Figure 106: AEOS Template - Assign Schedule to Entrance Group	112
Figure 107: AEOS Template - Add Entrance	112
Figure 108: AEOS Template - Save Entrance	113
Figure 109: AEOS Template - Assign Schedule to Entrance	113
Figure 110: AEOS - Save Template	114
Figure 111: AEOS - Assign Template to Person	115
Figure 112: IXM WEB - OSDP Settings	116
Figure 113: IXM WEB - Save OSDP Setting	119
Figure 114: IXM WEB - Edit Device	119
Figure 115: IXM WEB - Edit Device Options	120



Figure 116: IXM WEB - Disable Panel Feedback	120
Figure 117: AEmon - OSDP Device	121
Figure 118:AEmon - OSDP Device Behavior	121
Figure 119: AEmon - Standard Door Property	122
Figure 120: AEmon - Primary Identifier Type	123
Figure 121: AEmon - Configure Primary Identifier Type	124
Figure 122: AEmon - Generic Primary Identifier Type	125
Figure 123: AEmon - Deploy Configuration	126
Figure 124: AEmon - Configuration tab	127
Figure 125: AEmon - Add ACLabelConverter	128
Figure 126: AEmon - StandardDoor and ACLabelConverter Connection	129
Figure 127: AEmon - GenericDeviceInterface Properties	130
Figure 128: AEmon - Device Channel Address	131
Figure 129: AEmon - Add Channel Address	132
Figure 130: AEmon - Deploy Configuration	133
Figure 131: IXM WEB - Add DIP Settings	134
Figure 132: IXM WEB - Save DIP Settings	135
Figure 133: AEmon - DIP Device	136
Figure 134: AEmon - DIP Device Behavior	137
Figure 135: AEmon - Standard Door Property	138
Figure 136: AEmon DIP - Primary Identifier Type	139
Figure 137: AEmon DIP - Primary Identifier Configuration	140
Figure 138: AEmon DIP - Generic Primary Identifier Type	141
Figure 139: AEmon - Deploy Configuration	142
Figure 140: AEmon - Wiegand Device Behavior	144
Figure 141: AEmon - Standard Door Property	144
Figure 142: AEmon Wiegand – Primary Identifier Type	145
Figure 143: AEmon Wiegand - Configure Primary Identifier Type	146
Figure 144: AEmon Wiegand- Generic Primary Identifier Type	
Figure 145: AEmon Wiegand- Deploy Configuration	148
Figure 146: IXM WEB - Broadcast Option	



Figure 147: IXM WEB - Broadcast Wiegand Output Settings	150
Figure 148: IXM WEB - Broadcast to Devices	151
Figure 149: Earth Ground Wiring	152
Figure 150: IXM TITAN – Top & Bottom Connector Wiring	153
Figure 151: Power, Wiegand & OSDP Wires	154
Figure 152: IXM TITAN - Wiegand	155
Figure 153: IXM TITAN - Panel Feedback	156
Figure 154: IXM TITAN - OSDP Connections	157
Figure 155: IXM WEB - Device Communication Settings	158
Figure 156: IXM WEB - Server URL Setting	159
Figure 157: IXM WEB - Server URL Setting from General Setting	160
Figure 158: IXM WEB - Enable Device Logs	161
Figure 159: Save Device Log File	161
List of Tables	
Table 1: Compatibility Matrix for IXM WEB & Nedap AEOS	13
Table 2: Task List Summary	
Table 3: System Related Checklist	21
Table 4: Port Information	21
Table 5: AEmon – Data Type vs Identifier	56
Table 6: IXM WEB - OSDP Configuration Options	118
Table 7: IXM WEB - OSDP Text Options	118
Table 8: Logs Folder Location	162



# 1. Introduction

# **Purpose**

This document outlines the process of configuring the software integration between Nedap's AEOS 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 Nedap AEOS Software (where access rules for the users and the organization are managed).



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

The following sections will describe how to set up and configure IXM Link to keep IXM WEB users in sync with AEOS by using "Web Service" to import and export cardholders.

# **Acronyms**

Acronym	Description
IXM	Invixium



# Field Mappings

The following are the Nedap AEOS fields that are mapped to IXM WEB

Nedap AEOS Field	IXM WEB Field Notes	
First name	First Name	
Last name	Last Name	
Identifier (Identification)	Number (Card)	This is mandatory for adding users to Nedap AEOS from IXM WEB.
Identifier Type (Identification)	Card Type (Card)	
Status (Identification)	Status (Card)	Cards with the status "In Use" and "Replacement" in Nedap AEOS are only synchronized to IXM WEB as "Active Card". In the case of other statuses, card status will sync as "Inactive" in IXM WEB.
Photo	Photo	
Date from	Start Date Time	Default time will be considered as 00:00:00
Date until	End Date Time	Default time will be considered as 23:59:00  The employee is marked as suspended if the date of import is greater than the "Date until" of the employee. At the end of the day at 00:00, the existing employee gets suspended.
Template	Employee Group/ Device Group/ Sync Group	Setting the flag "Map Template to User Group" to YES in configuration will create an Employee Group, Device Group, and Sync Group in IXM WEB. Further, employees imported with respective Template from AEOS will be added automatically to the Employee Group in IXM WEB. Only Template entity mapped with IXM WEB Entrance Group and Entrance will not be considered.





Note: Multiple Cards – Nedap AEOS can have multiple identifiers (cards) per person, and IXM WEB supports a maximum of 10 cards per employee.

# 2. Compatibility

# **Invixium Readers**

TITAN	TFACE	TOUCH2	SENSE2	MERGE2	MYCRO
All models					

# Software Requirements

Application	Version
Nedap AEOS	2023.1
Invixium IXM WEB	3.0.36.0
Operating Systems	Windows 10 Professional Version
	Windows 11 Pro
	Windows Server 2016 Standard
	Windows Server 2019
Microsoft .NET Framework	.NET Framework 4.8
Database Engine	SQL Server 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)



# 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 <a href="mailto:support@invixium.com">support@invixium.com</a>.

# Compatibility Matrix for IXM WEB & Nedap AEOS Integration:

IXM WEB version	Nedap AEOS version	Compatible
IXM WEB 2.2.224.0	2021.1	Yes
IXM WEB 2.2.230.0	2021.1	Yes
IXM WEB 2.2.252.0	2021.1	Yes
IXM WEB 2.2.330.0	2021.1	Yes
IXM WEB 2.3.2.0	2021.1	Yes
IXM WEB 2.3.12.0	2023.1	Yes
IXM WEB 3.0.36.0	2023.1	Yes

Table 1: Compatibility Matrix for IXM WEB & Nedap AEOS



# 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 Nedap AEOS	Invixium
Creation of System Users in IXM WEB for Enrollment	Invixium
Configure Invixium Readers	Invixium
Add an Invixium Device to a Device Group	Invixium
Face, Fingerprint or Finger Vein Enrollment	Nedap AEOS
Prerequisites for Getting Access in Nedap AEOS	Nedap AEOS
OSDP Configuration	Invixium & Nedap AEOS
DIP Configuration	Invixium & Nedap AEOS
Wiegand Configuration	Invixium & Nedap AEOS



# 4. Task List Summary

Task	IXM WEB Application Task List	Nedap AEOS Task List
1	Activate IXM WEB and IXM Link for Nedap AEOS	Enroll biometrics (face, fingerprint, finger vein) from Nedap AEOS
2	Configure IXM Link for Nedap AEOS	Mandatory configurations for getting access in Nedap AEOS
3	Add new System Users in IXM WEB for enrollment	OSDP / DIP / Wiegand Configurations in AEOS and AEmon
4	Register IXM Devices and configure settings as per the requirement	
5	Configure OSDP settings on the device for integration with the Access Panel	
6	Configure DIP settings on the device for integration with the Access Panel	
7	Configure Wiegand settings on the device for integration with the Access Panel	

Table 2: Task List Summary



# 5. Prerequisites for AEOS and IXM WEB Integration

# Enable Soap WebService

Procedure

STEP 1

From the AEOS menu bar, go to **Administration** → **Maintenance** → **Settings**.



Figure 1: AEOS - Settings



# Click on System Properties.

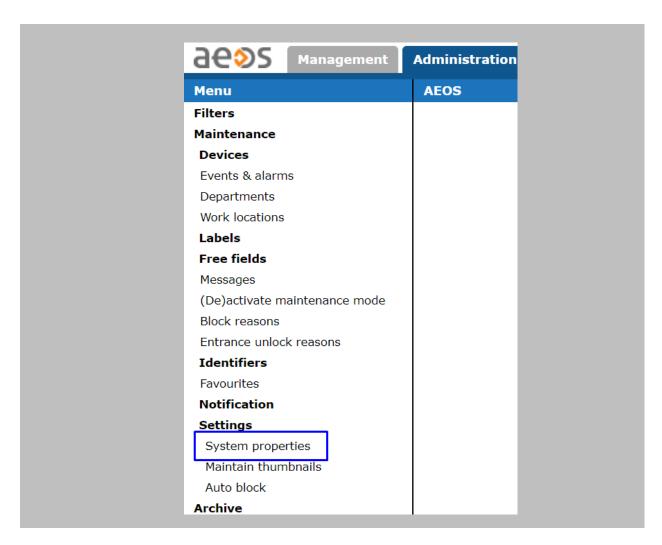


Figure 2: AEOS – System Properties



Select the checkbox "Soap WebService" to enable the service.

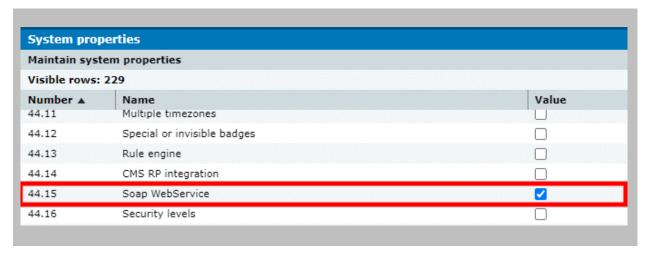


Figure 3: System Properties - Soap WebService

## STEP 4

Click on OK.

#### STEP 5

Once saved, restart the service. Once the service starts, wait for 5 minutes to make the application up and running.



Figure 4: AEOS Application Server



# 6. Prerequisites for Installing Invixium IXM WEB Software

# Getting IXM WEB activation key

#### Procedure

Complete the online form to receive instructions on how to download IXM WEB: <a href="https://www.invixium.com/download-ixm-web/">https://www.invixium.com/download-ixm-web/</a>

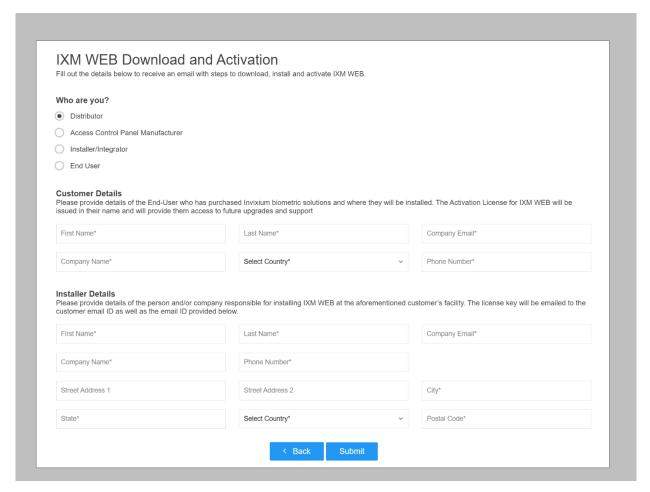


Figure 5: IXM WEB Online Request Form

After submitting the completed form, an email will be sent with instructions from <a href="mailto:support@invixium.com">support@invixium.com</a> to the email ID specified in the form.

Please ensure to check the spam or junk folder.

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



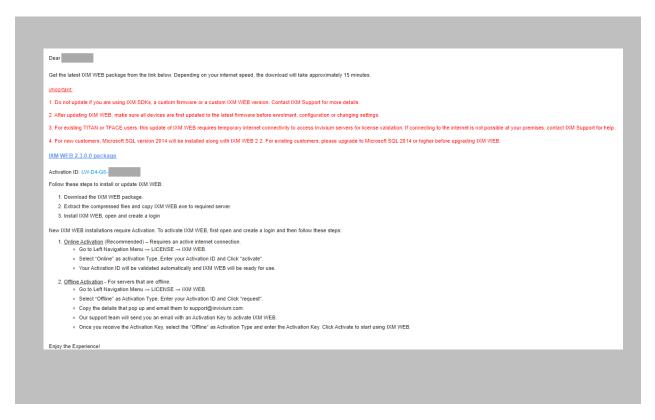


Figure 6: Sample Email After Submitting Online Request Form



# Minor Checklist and Considerations

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

Other Minor Checklist	
	Windows Operating system needs to be up to date.
Windows Updates	System updates should not be pending. If any update is downloaded, you will have to restart the system to complete the Windows update.
User Privileges	The person who is setting up IXM WEB 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
Nedap AEOS Port	8444

Table 4: Port Information



# 7. Installing IXM WEB

# **Software Installation**

## STEP 1

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



Figure 7: IXM WEB Installer



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**.

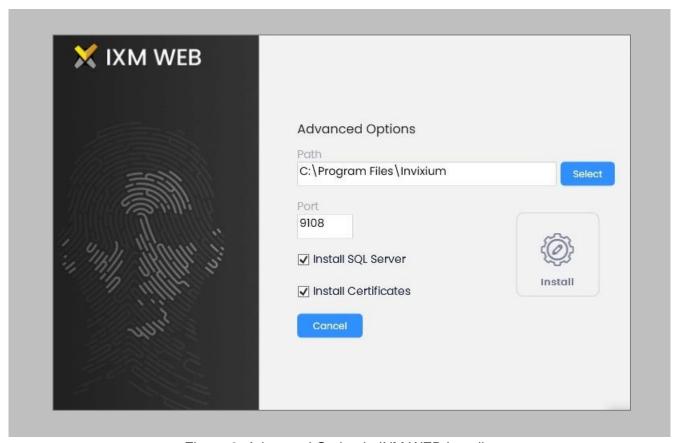


Figure 8: Advanced Option in IXM WEB Installer

# STEP 4

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

• Installation Path: In basic installations, the default path is — "C:\Program Files (x86)\Invixium". By changing the path, users can determine the new physical path on the machine where the IXM WEB package will be extracted.



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

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

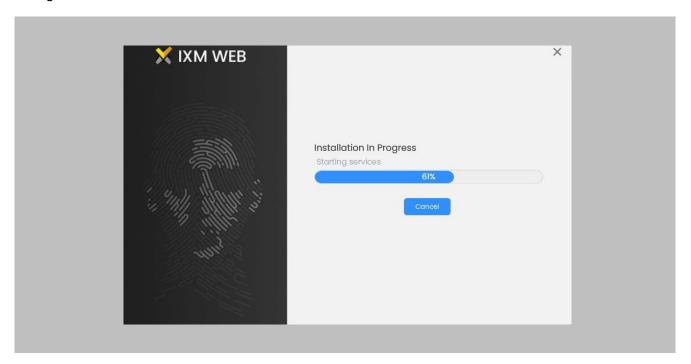


Figure 9: IXM WEB Installation





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



Figure 10: IXM WEB Installation Completed



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



Figure 11: 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.

## STEP 9

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



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.



Figure 12: SQL Database Configuration

#### STEP 11

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.



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

## STEP 13

Click Next.

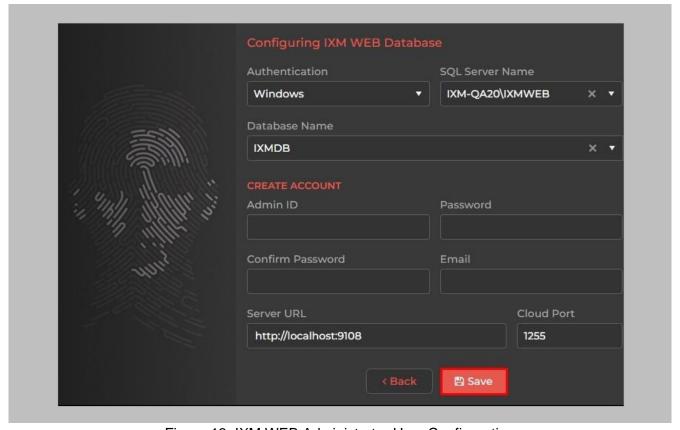


Figure 13: IXM WEB Administrator User Configuration

## STEP 11

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

## STEP 12

The fields and their functions are mentioned below:



- 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
- 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.

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



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

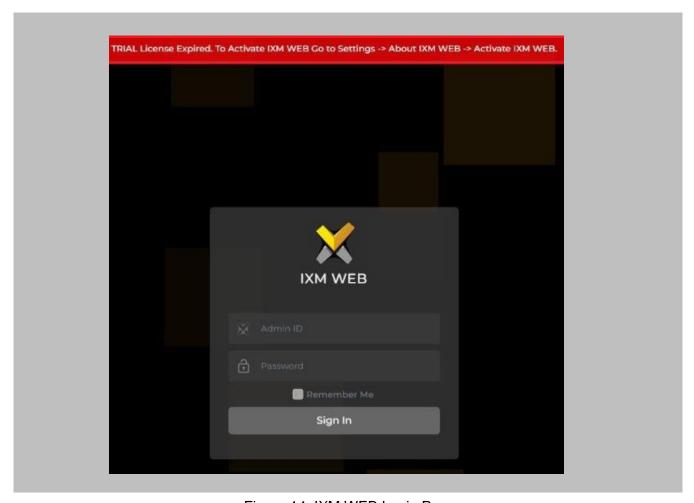


Figure 14: IXM WEB Login Page

Note: During an upgrade of IXM WEB from any previous release to 3.0.36.0, an internet connection is required for license validation. As this new version includes a face algorithm update, it will automatically convert templates without the need for re-enrollment of faces.



# 8. Configuring Email Settings Using IXM WEB

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

# **Email Setting Configuration**

#### Procedure

## STEP 1

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

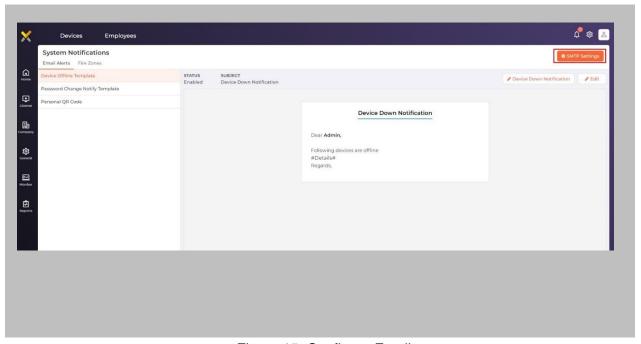


Figure 15: Configure Email



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

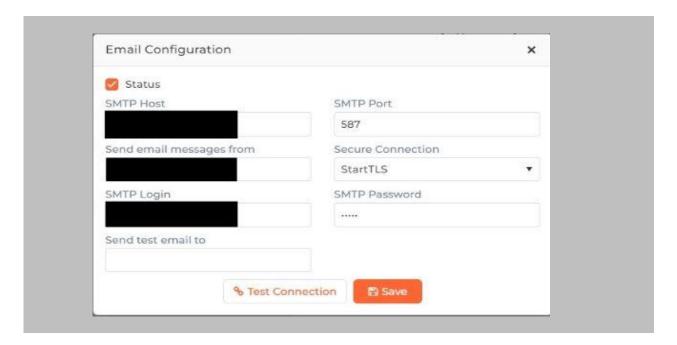


Figure 16: IXM WEB - SMTP Settings

ů

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

#### STEP 3

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

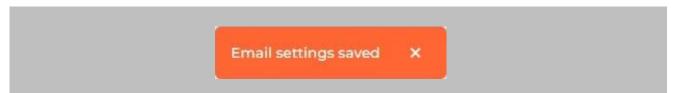


Figure 17: IXM WEB - Save Email Settings



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

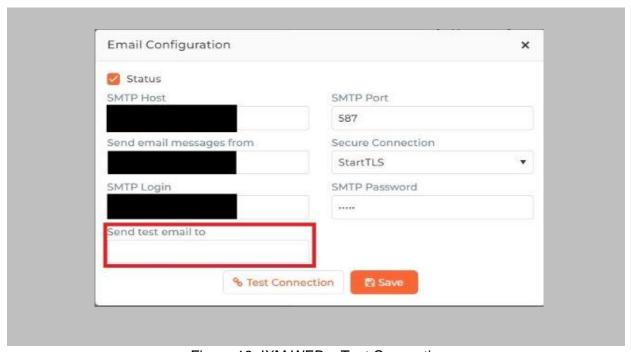


Figure 18: IXM WEB – Test Connection



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

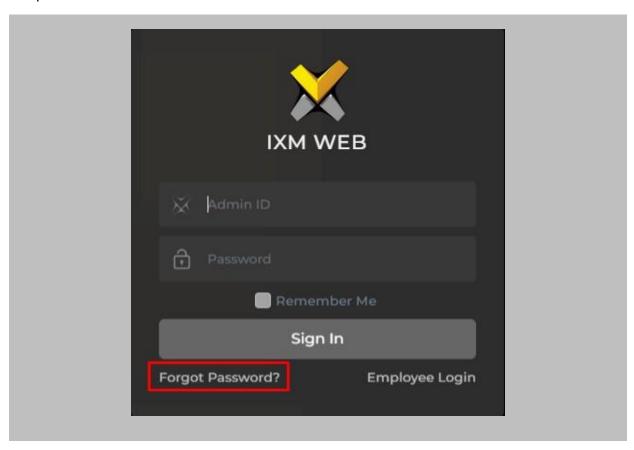


Figure 19: IXM WEB - Forgot Password



# 9. Software and Module Activation

# **IXM WEB Activation**

Procedure

STEP 1

Log into IXM WEB.

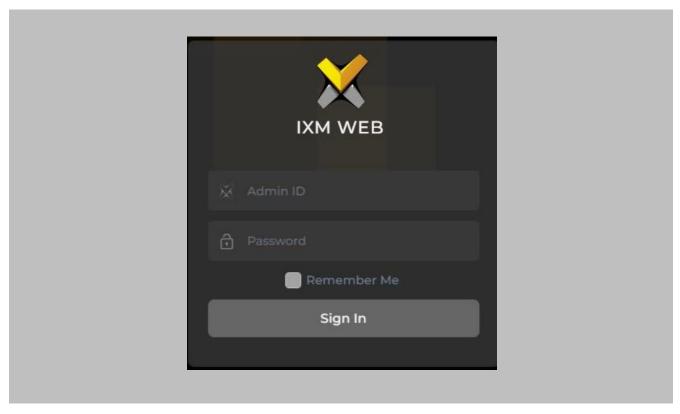


Figure 20: IXM WEB - Enter Login Credentials

## STEP 2

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





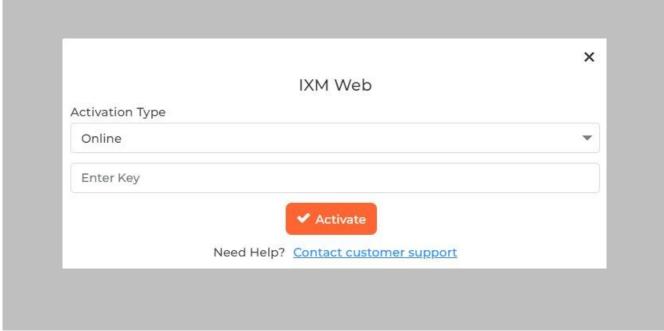


Figure 21: IXM WEB - License Setup

Request Activation Key Online or via Offline Activation Options.



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



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

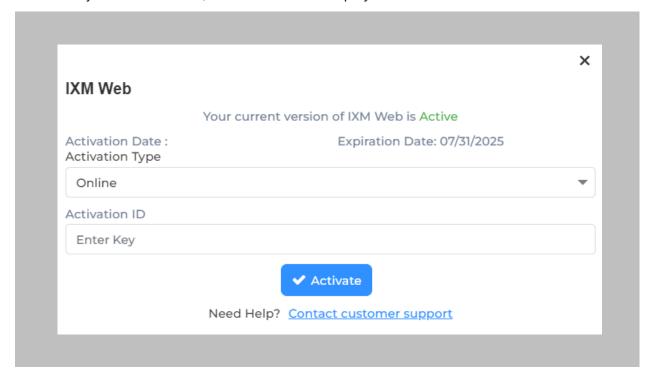


Figure 22: IXM WEB - Online Activation



### Nedap AEOS Module Activation

The option to activate a Nedap AEOS License is available under the License tab.

#### STEP 1

Request a **License**.

#### STEP 2

From Home, expand the Left Navigation Pane, and go to the License tab. Click on Nedap

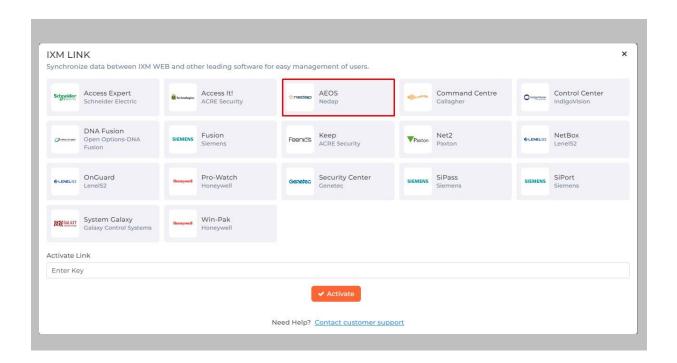


Figure 23: IXM WEB - Nedap Link Activation



You will receive an email from **Invixium Support** having a license key for the Nedap AEOS Activation.

To:	
Cc: Subject: IXM Link Activation For Nedap Integration	
Dear	
Thank you for purchasing IXM Link. Your license de	stalls are given below:
Access Control Panel: <b>NEDAP</b> Number of devices: <b>200</b>	
License Key:	
To activate your IXM Link license, follow these step:	S:
<ul> <li>Open IXM WEB and login</li> <li>Expand Left Navigation Panel</li> </ul>	
Click License tab	
<ul> <li>Select the required Access Control Panel m</li> <li>Enter the License Key given above and clic</li> </ul>	
Enter the License Key given above and clic	ACUVALE
IXM Link should be activated and ready to use.	
IXM Link should be activated and ready to use.  Enjoy the Experiencel	
Enjoy the Experiencel	es Team.
•	os Team.
Enjoy the Experiencel  For any queries, contact Invixium Technical Service	os Team.
Enjoy the Experiencel  For any queries, contact Invixium Technical Service Best Regards,  Invixium Technical Services Team	
Enjoy the Experiencel  For any queries, contact Invixium Technical Services Best Regards,  Invixium Technical Services Team  Contact US: +1 844 INVIXIUM (468 4948)	Email: support@invixium.com
Enjoy the Experiencel  For any queries, contact Invixium Technical Service Best Regards,  Invixium Technical Services Team	

Figure 24: Nedap AEOS License Key Email



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

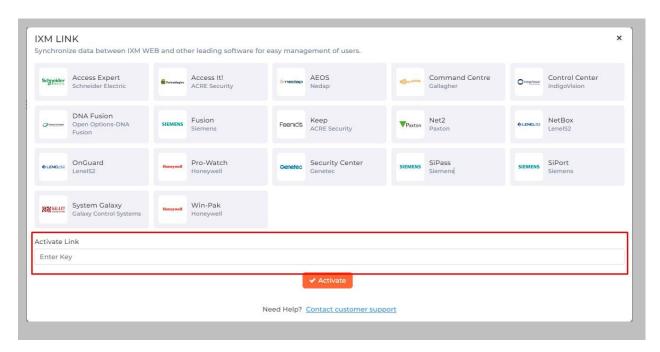


Figure 25: IXM WEB - Activate Nedap AEOS Link License

#### **RESULT**

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



# 10. Configuring IXM Link for Nedap AEOS

Procedure

STEP 1

From the Left Navigation Pane  $\rightarrow$  Link  $\rightarrow$  click the AEOS (Nedap) icon.

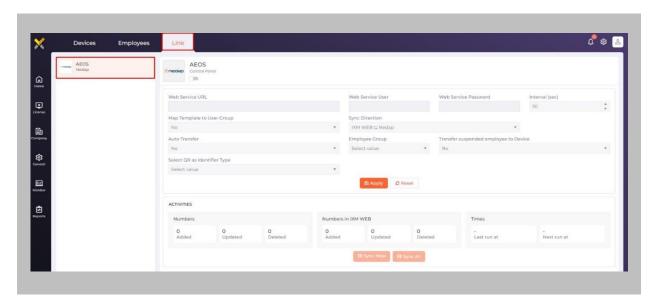


Figure 26: IXM WEB - Link Menu



Toggle the **Status** switch to enable.

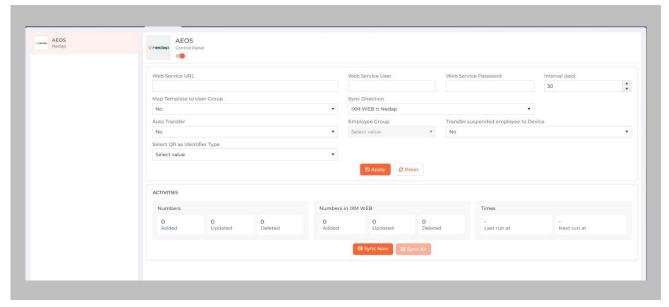


Figure 27: IXM WEB - Enable Nedap AEOS Link Module

#### Web Service URL:

Enter the Nedap AEOS WEB Service URL. For example: https://172.16.254.40:8444/aeosws

#### Web Service User:

Enter the Username to access the web service.

#### Web Service Password:

Enter the Password to access the web service.

#### Interval (Sec):

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

#### **Map Template to User Group:**

This option allows to specify whether the Templates should be imported from Nedap AEOS to IXM WEB. The Templates will be imported as Employee Group, Device Group, and Sync Group in IXM WEB.

Click on either 'Yes' or 'No'. By default, 'No' is selected.



No: Templates will not be imported from Nedap AEOS to IXM WEB.

Yes: Templates will be imported from Nedap AEOS to IXM WEB.



**Note :** Template entity up to 100 characters mapped with IXM WEB Entrance Group and Entrance will not be considered.

#### **Sync Direction:**

Click on the field to select the direction of data transfer.

Select one-way sync direction IXM WEB ← Nedap to import a person from Nedap AEOS to IXM WEB.



Figure 28: IXM WEB - Sync Direction

#### **Auto Transfer:**

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

Click on either 'Yes' or 'No'.

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



Figure 29: IXM WEB - Auto Transfer No



**Yes**: Employees synchronized from Nedap AEOS will be added automatically to the selected employee group.



Figure 30: IXM WEB - Auto Transfer Yes

#### **Employee Group:**

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

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

#### Transfer suspended Employee to device:

This option allows to specify whether the suspended Employees should be transferred from Nedap AEOS to the device. An Employee is considered as "suspended" when their expiry date is no longer valid. While importing Employees, the system will check their joining start date and leaving expiry date. If the current date is greater than the expiry date, the Employee will be marked as suspended.

Click on either 'Yes' or 'No'. By default 'Yes' is selected.

**No**: Suspended Employees will not be transferred from Nedap AEOS to the device. Instead, all suspended employees currently stored in the device will be removed.

Yes: Suspended Employees will be transferred from Nedap AEOS to the device.

#### Select Identifier Type as QR:

A list of all Identifier Types available in Nedap AEOS is displayed. By default "Select value" will be displayed.

Select the Identifier Type from the dropdown list to consider cards as QR cards. Cards of Employees belonging to the selected Identifier Type will be converted to QR Cards in the IXM WEB.

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



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



Figure 31: IXM WEB - Sync Activities

#### **Numbers**

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

#### **Times**

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

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

#### STEP 3

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

#### STEP 4

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

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

#### **RESULT**

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







# 11. Configuring Events in Nedap AEOS

### Prerequisite

To send events from a device to Nedap AEOS, it is essential to install the Virtual AEPU (Access Event Processing Unit) beforehand.

Install Virtual AEPU (Access Event Processing Unit)

Procedure

STEP 1

Navigate to the **setup folder** → **Additional Programs** → **Virtual AEpu** and execute the file named "setup\_aepu\_" + <version number> to install the Virtual AEPU.

#### STEP 2

Confirm successful installation by checking the service from Windows Services (Services.msc).

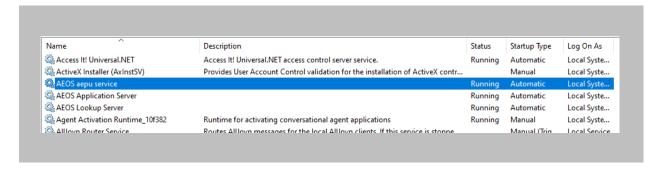


Figure 32: AEOS aepu service



Configure Virtual AEPU (Access Event Processing Unit)

Procedure

STEP 1

Open **AEmon** and select the virtual **AEpu**.

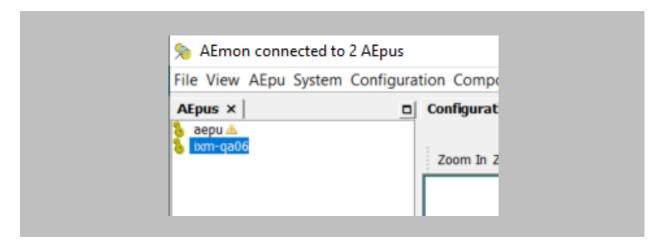


Figure 33: AEmon - Virtual AEpu

#### STEP 2

Navigate to **Component** tab and select **New**.



Create a separate Interface Server by giving it a name.

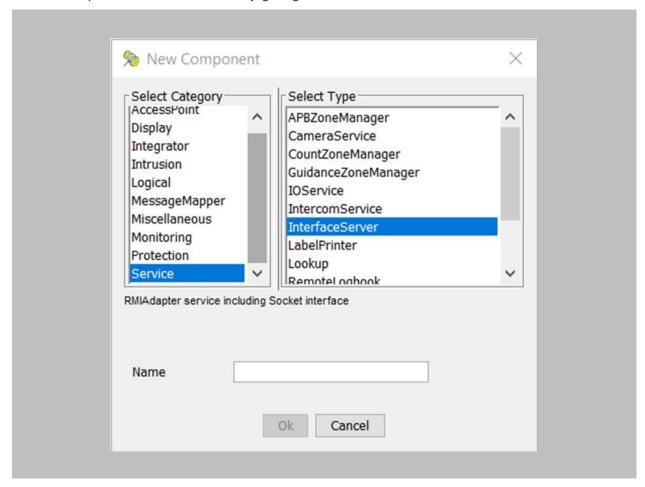


Figure 34: AEmon – Interface Server



Configure properties of the Interface Server.

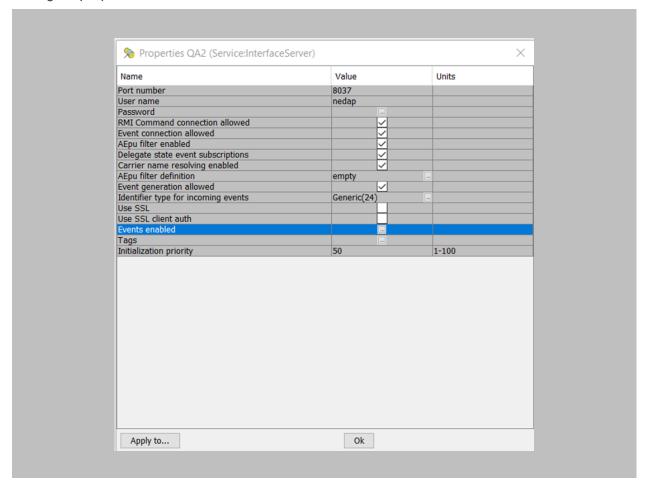


Figure 35: AEmon – Interface Server Properties

#### Port number:

The default Port number used by AEPU Controller for communication is 8035 but can be changed.

#### User name:

Enter the User name to connect to the server. The default user name is "nedap".





#### Password:

Enter the Password to connect to the server. The default password is "nedap".

#### **Event connection allowed:**

Enable this property by checking the box.

### **Event generation allowed:**

Enable this property by checking the box.

#### Identifier type for incoming events:

Configure the required identifier from the dropdown list.

🖺 Invixium recommends Generic Identifier Type.



Upon selection, the following screen is displayed:

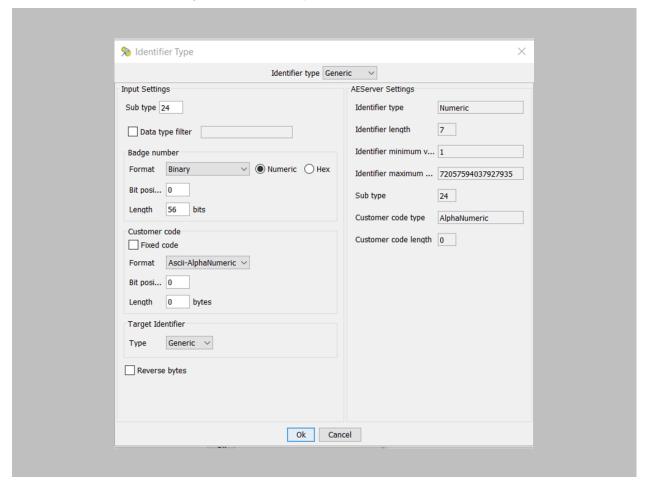


Figure 36: AEmon – Identifier Type for incoming events

#### STEP 6

<Right click> and select **Deploy configuration** to deploy the Interface Server.



# **Configure Events**

Follow the steps below to configure events on Nedap AEOS for a device.

Procedure

STEP 1

From the Left Navigation Pane → Link → click the AEOS (Nedap) icon.

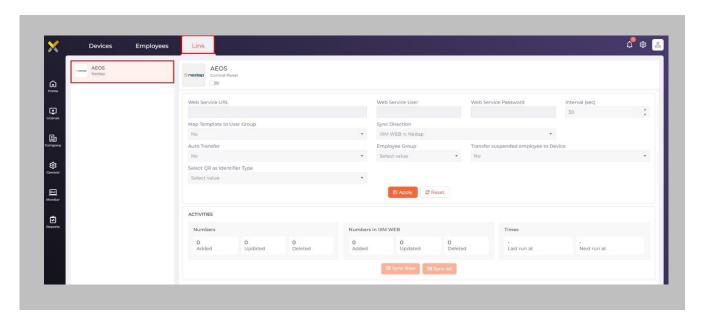


Figure 37: IXM WEB - Link Menu



Navigate to **Events Configuration** tab.

Note: This tab will be displayed only if there are registered device(s).

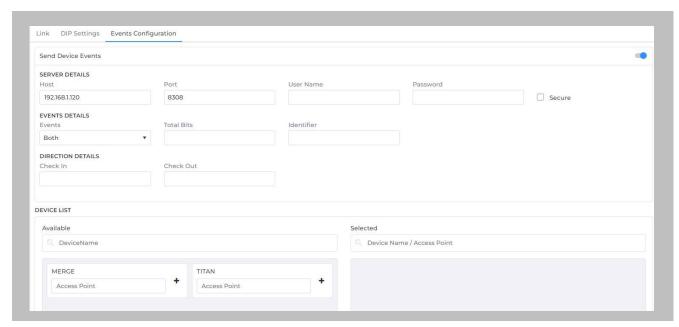


Figure 38: IXM WEB – Events Configuration

AEOS uses a Socket server to communicate with clients. The following information is required to connect with AEOS server:

#### **SERVER DETAILS**

#### Host:

Enter the Host name or IP Address where AEOS is running.

#### Port:

Enter the Port number of Interface Server.

#### **User Name:**

Enter the valid User name to connect to the Interface Server.

#### Password:

Enter the valid Password to connect to the Interface Server.

.



#### Secure:

Enable the checkbox to establish a secure stream and communicate with the server securely.

#### **EVENTS DETAILS**

#### **Events:**

Select the event(s) you want to send to AEOS server from the dropdown list.

- Both
- Access Granted
- Access Denied

#### **Total Bits:**

Enter the number of bits specified while configuring the Interface Server. Please refer the following screenshot for the same:

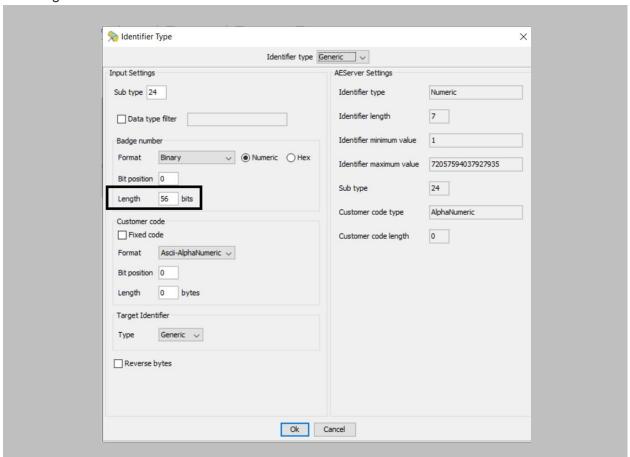


Figure 39: AEmon – Interface Server Identifier Type

#### Identifier:





In Aemon, during the configuration of the Access Point, it is necessary to specify the Identifier. This Identifier is then used to prepend additional bits to the Badge Number.

Specify the format based on the following screenshot:

If Wiegand 128 is selected in AEmon, then we need to set **0308** here.

#### For example:

Data type	ldentifier	
Nedap		
00 00	EF code	
00 01	A code	
00 02	EF (+ CB) code	
00 03	B code	
00 04	CF code	
00 05	CF (+XF) code	
00 06	DF code	
00 07	DF (+XF) code	
00 08	GF code	
00 09	GF (+XF) code	
00 0A	GF (+W) code	
00 OB	GF (+W XF) code	
00 OC	C code	
00 0D	D code	
00 OE	G code	
Serial		
01 xx	Serial protocols	
Omron		
02 01	Omron Track ISO 1	
02 02	Omron Track ISO 2	
02 03	Omron Track ISO 3	
02 04	Omron max 200 ISO 2	
Wiegand		
03 01	Wiegand 26	
03 02	Wiegand 32	
03 03	Wiegand 37	
03 04	Wiegand 32Bin	
03 05	Wiegand 44	
03 06	Wiegand 35	
03 07	Wiegand 64	
03 08	Wiegand 128	
03 09	Wiegand C1000	

Data type	ldentifier	
Mifare		
05 01	Mifare CSN	
05 02	Mifare Block data	
05 03	Mifare DESfire CSN	
05 04	Mifare DESfire Block data	
05 05	Mifare Ultralight CSN	
05 06	Mifare Ultralight Block data	
05 07		
05 08		
05 09	Mifare Plus Block data	
Legic		
07 01	Legic Prime CSN	
07 02	Legic Prime Data	
07 03	Legic Avant CSN	
07 04	Legic Avant Data	
	HID	
08 01	IClass CSN	
08 02	IClass Data	
	FM Marin	
00.01	EM Marin EM4102	
09 01 09 02	EM4050 Data	
09 02	EM4050 Data	
Converted from Input		
0A 00	Tamper state (0 false, 1 true)	
0A 01	InputToBadge data	
0		
NFC		
0B 01	ISO 14443A	
0B 02	ISO 14443B	
OB 03	ISO 14443A and B	

Table 5: AEmon – Data Type vs Identifier

Consider, **1051** is assigned badge to someone in IXM Web. And number of bits are 56 bits. So to send events related to this card number to AEOS, the following steps are required:



- 1. Convert card number to Hex. (As we are storing card as a decimal): 1051 = 41B
- Divide No. of bits by 4.
   56/4 = 14 bits will be sent to AEOS.
- 3. 0000000000041B number will be sent to AEOS.
- 4. But before sending this number, based on the selected Identifier Type we need to prepend the format. For example, if we have used **Wiegand 128** then we need to prepend **0308**. Hence our final number would be **0308**000000041B.
- In our case, for a Generic Identifier Type, our final number would be:
   000000000041B

#### **DIRECTION DETAIL**

#### Check In:

Enter Check-In value for FKey 1 that will be sent to Nedap server as a check-In event.

#### **Check Out:**

Enter Check-Out value for FKey 2 that will be sent to Nedap server as a check-Out event.



**Note:** Nedap AEOS will consider value "1" as in-direction, "2" as out-direction, and any other value as unknown direction.

#### **DEVICE LIST**

#### Available:

A list of available device(s) will be displayed. Click on the **+** icon of device to select. The selected device will be moved to the **Selected** list.

#### Selected:

A list of selected device(s) will be displayed. Click on **x** icon of device to deselect. The device will be moved back to the **Available** list.

Events of only selected devices will be sent to Nedap AEOS.

STEP 3

Click on Apply.



IXM Web will attempt to establish a connection with the AEOS server using the provided parameters. Only when the connection is successfully established, the details will be saved; otherwise, an error message will be displayed.

To send events to Nedap AEOS, a Badge Number is required. The default card of an Employee will be sent. If an employee does not have a card, no event will be sent to Nedap AEOS.



# 12. Create System User(s) for Biometric Enrollment

#### STEP 1

Log into IXM WEB.

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

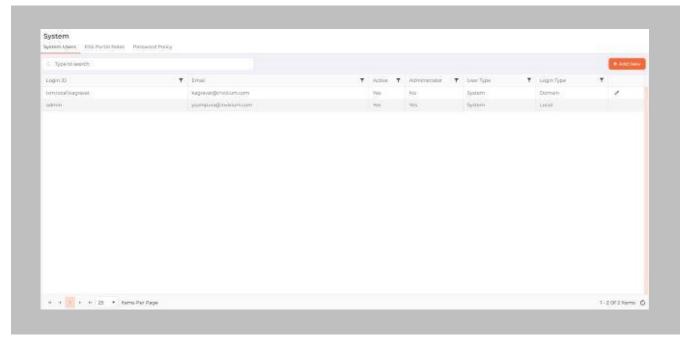


Figure 40: IXM WEB - Create System User



#### Click Add New.



Figure 41: IXM WEB - Add New System User

Creating a system user requires the following details:

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



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

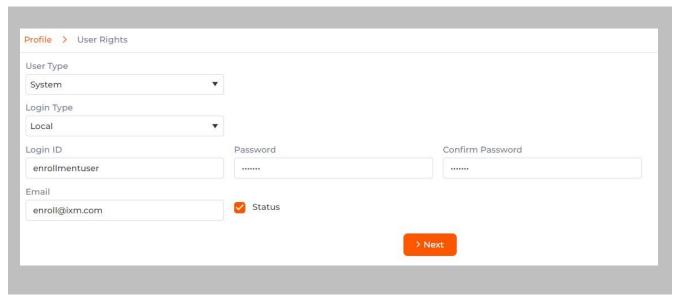


Figure 42: IXM WEB - New System User



Add an email address.

Apply for permission as "All" for Employee & Employee Group module.

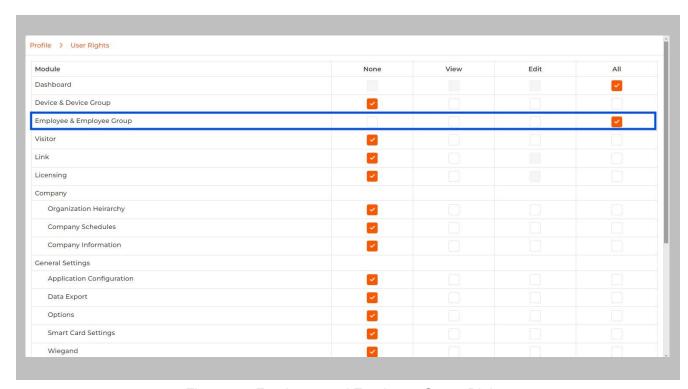


Figure 43: Employee and Employee Group Rights

#### STEP 5

Click Save.

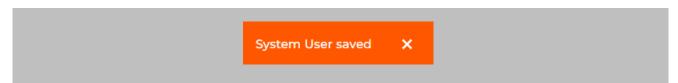


Figure 44: IXM WEB - Save System User



# 13. Add and Configure Invixium Readers

# Adding an Invixium Reader in IXM WEB

Procedure

STEP 1

Click the **Devices** tab.

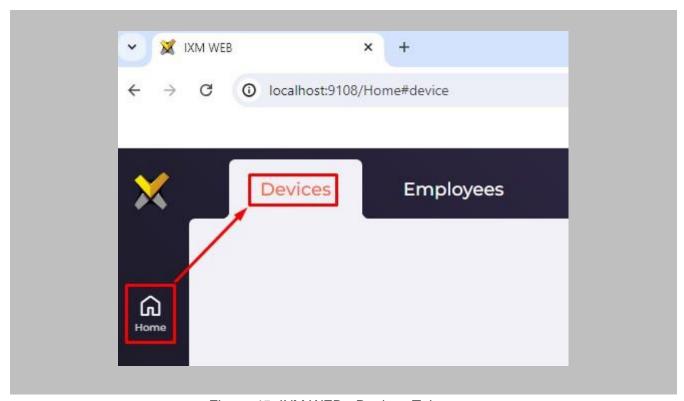


Figure 45: IXM WEB - Devices Tab



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

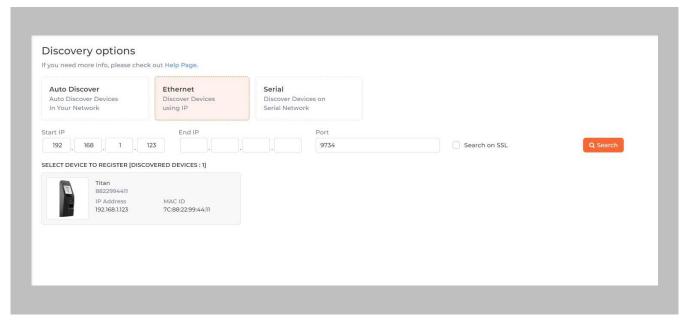


Figure 46: IXM WEB - Search Device Using IP Address



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

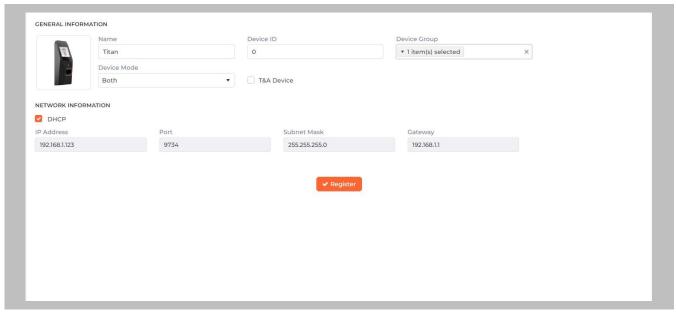


Figure 47: IXM WEB - Register Device

#### STEP 4

Name the **device** <u>exactly as the name of the door</u> it will be used for.

**Device Mode:** select accordingly.

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



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

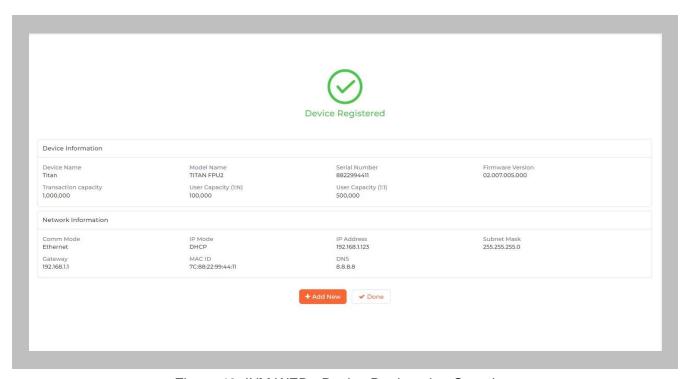


Figure 48: IXM WEB - Device Registration Complete



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

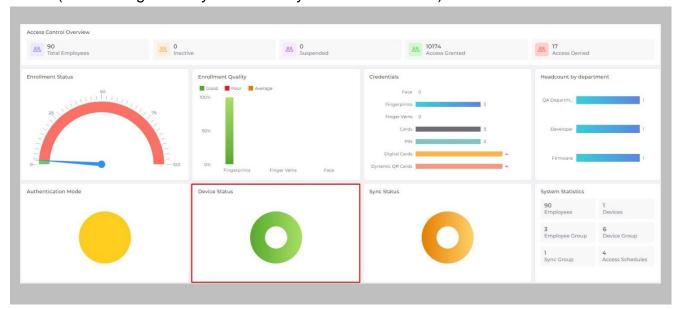


Figure 49: IXM WEB - Dashboard, Device Status



## 14. Adding an Invixium Device to a Device Group

Procedure

STEP 1

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

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

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

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

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

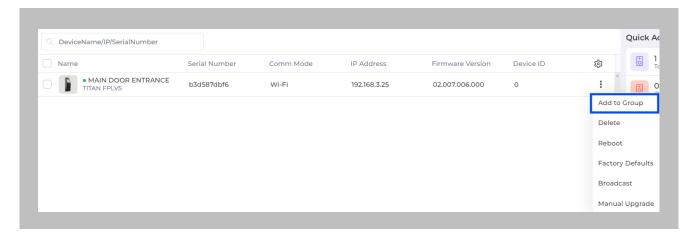


Figure 50: IXM WEB - Assign Device Group





### Configuring Wiegand Format to Assign Invixium Readers

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

#### STEP 1

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

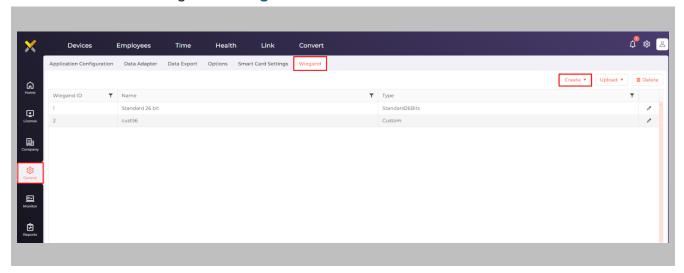


Figure 51: IXM WEB - Create Wiegand Format

#### STEP 2

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

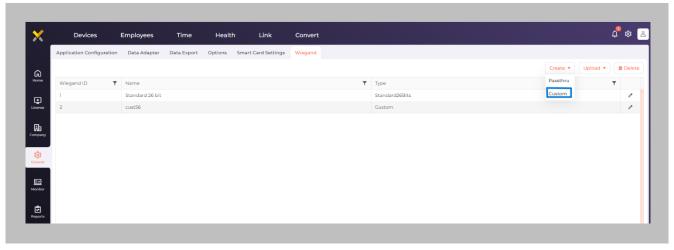




Figure 52: IXM WEB - Create Custom Wiegand Format

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

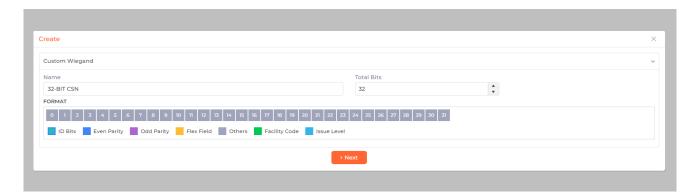


Figure 53: IXM WEB - Custom Wiegand Format



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



Figure 54: IXM WEB - Custom Wiegand Format Created

#### STEP 5

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

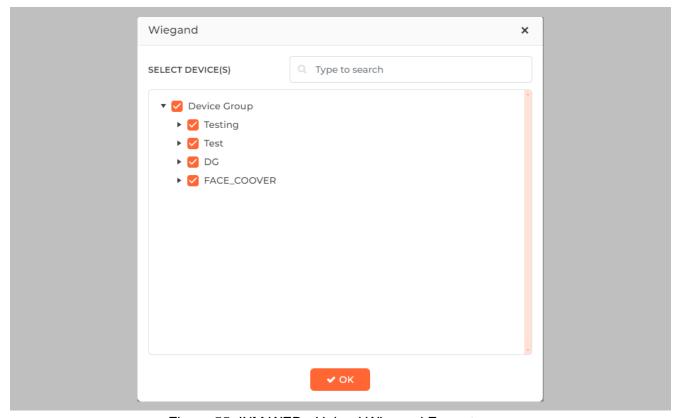


Figure 55: IXM WEB - Upload Wiegand Format



### Assign Wiegand to Invixium Readers

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

The created Wiegand will be used to define which output format will be sent to Pro-Watch.

#### STEP 1

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

#### STEP 2

Navigate to the Access Control tab.

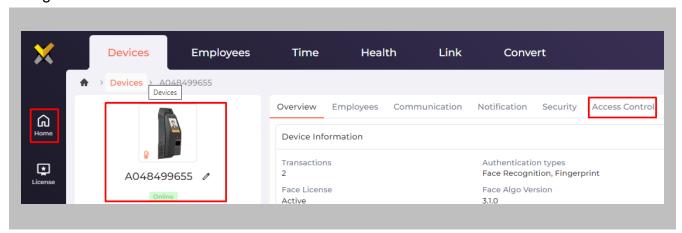


Figure 56: IXM WEB - Navigate to Access Control Tab



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

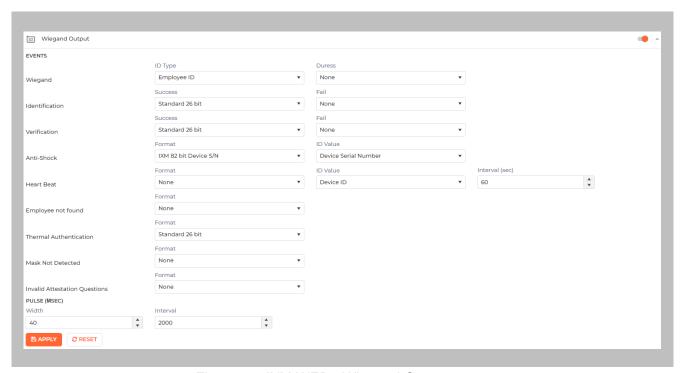


Figure 57: IXM WEB - Wiegand Output

ID types for Wiegand output are as follows:

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

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

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

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

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

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



(Î)

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

#### STEP 4

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

#### STEP 5

Click Apply.

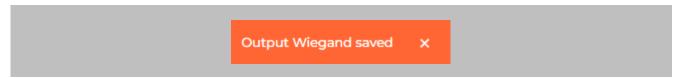


Figure 58: IXM WEB - Save Output Wiegand

#### **RESULT**

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



#### Note:

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



## Configuring Panel Feedback with Nedap

#### Procedure

#### STEP 1

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

#### STEP 2

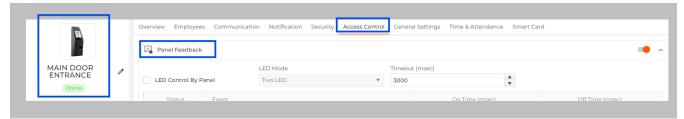
Connect the LED of the Honeywell Panel with ACP\_LED1 of the IXM device.

#### 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 59: IXM WEB - Panel Feedback

75



XAD-TPI-003-06G



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

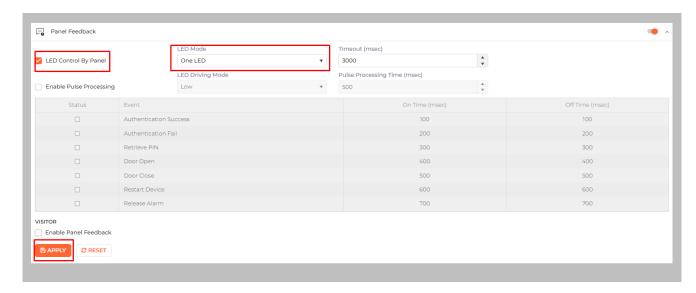


Figure 60: IXM WEB - Configuring Panel Feedback in IXM WEB

#### STEP 5

### Click Apply.



Figure 61: IXM WEB - Save Panel Feedback



## 15. Enrollment from Nedap AEOS

The Nedap AEOS application and IXM WEB should be browsed using https on the same browser session to overcome issues of a self-signed certificate.

## Pre-configuration for enrollment

Procedure

STEP 1

Host **IXM WEB** on https. A certificate will be required to configure IXM WEB on https. For example: https://172.16.254.40:9108

#### STEP 2

Go to the location where **AEOS** is installed →Open **Key Store Explorer** for importing IXM WEB's CA certificate.

**Default Location:** C:\AEOS\AEserver\standalone\certs

#### STEP 3

Go to Tools → Click on 'Import Trusted Certificate'.

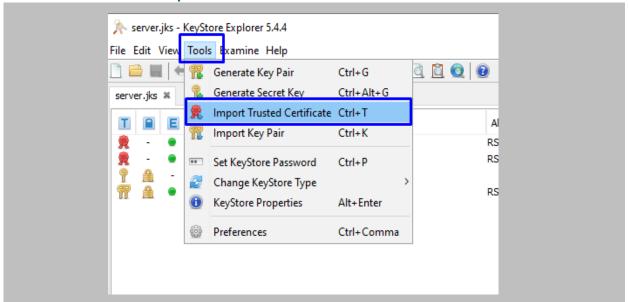


Figure 62: AEOS- Import Trusted Certificate



Select the SSL certificate and import it.

#### STEP 5

Go to the location where **AEOS** is installed  $\rightarrow$  Open the aeos.properties file to make changes related to enrollment.

**Default Location:** C:\AEOS\AEserver\standalone\configuration\aeos.properties

#### STEP 6

Add the below details in aeos.properties file:

bioapi.settings.server.bms1.name=IXMEnroll

bioapi.settings.server.bms1.uri=https:// 172.16.254.40:9108/Link/

bioapi.settings.server.bms1.optional.carrierName=true

bioapi.settings.server.bms1.optional.cards=true

bioapi.settings.server.bms1.optional.PIN=true

bioapi.settings.server.bms1.Content-Security-Policy=default-src 'self'

172.16.254.40:9108/Enrollment/Enrollment/ https://

172.16.254.40:9108/Link/EnrollNedapAEOSUser/ 'unsafe-inline' 'unsafe-eval'; script-src

'self' https:// 172.16.254.40:9108/Enrollment/Enrollment/ https://

172.16.254.40:9108/Link/EnrollNedapAEOSUser/ 'unsafe-inline' 'unsafe-eval'; object-src

'self' https:// 172.16.254.40:9108/Enrollment/Enrollment/ https://

172.16.254.40:9108/Link/EnrollNedapAEOSUser/ 'unsafe-inline' 'unsafe-eval'; img-src

'self' https:// 172.16.254.40:9108/Enrollment/Enrollment/ data:

Note: Replace <a href="https://172.16.254.40:9108">https://172.16.254.40:9108</a> with actual IXM WEB URL in above content security policy. Make sure there is no line break in above CSP



Open the **AEOS** application → From the AEOS menu bar, go to **Administration** → **Maintenance** →**Identifiers**.

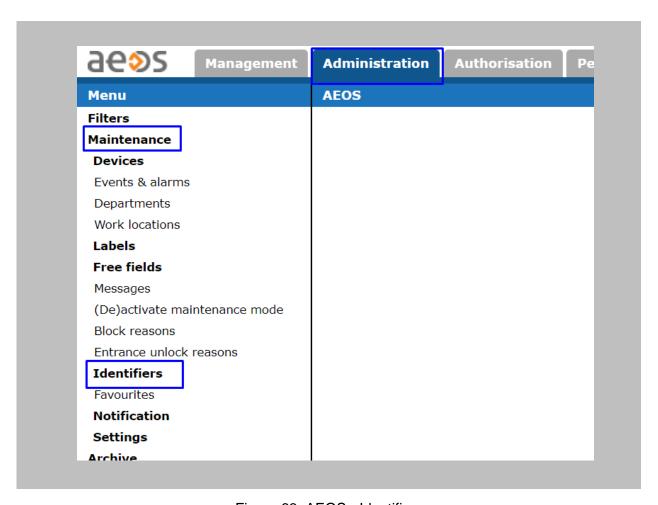


Figure 63: AEOS - Identifiers



Click on **Identifier Types**  $\rightarrow$  from the **Identifier Types** dropdown, select the type of identifier you want to create.

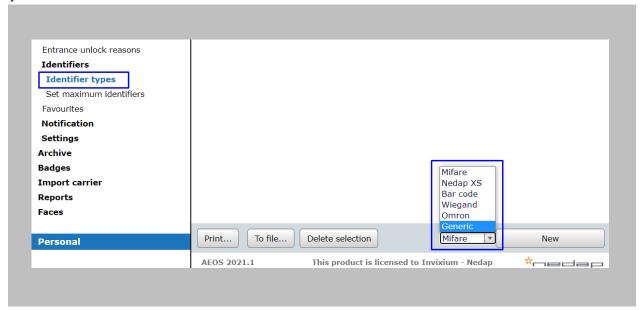


Figure 64: AEOS - Identifier Type Selection

#### Click on New.



Figure 65: AEOS - Add New Identifier Type



Enter the following details for creating an Identifier:

**Name:** Define an Identifier with the same name as mentioned for 'bms1.name' in the 'aeos.properties' file.

For example: IXMEnroll.

Also, enter other mandatory details and Click on OK.

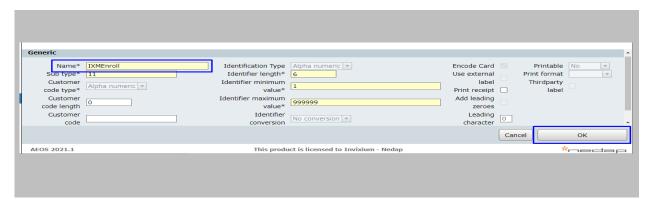


Figure 66: AEOS - New Identifier Type



From the AEOS menu bar, go to **Administration** → **Maintenance** → **Settings**.

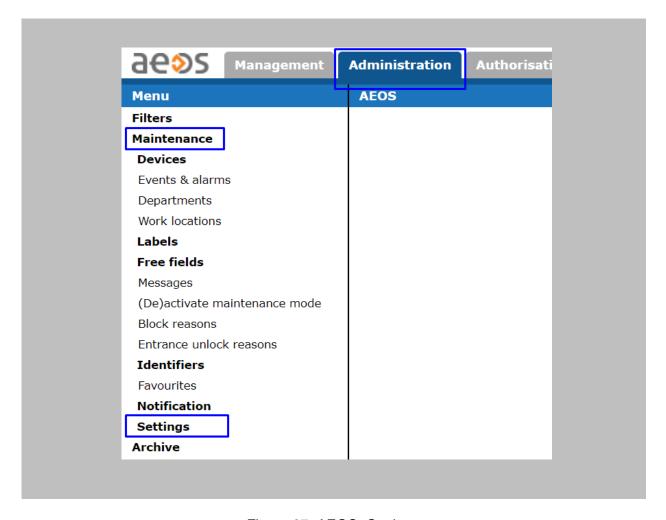


Figure 67: AEOS- Settings



Click on System Properties.

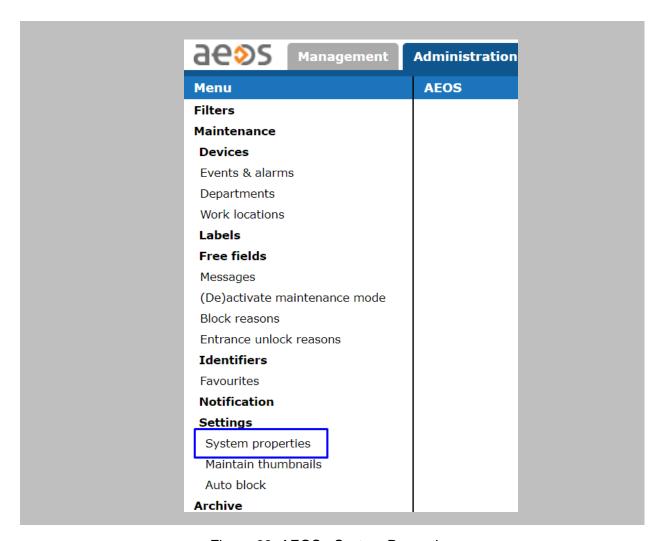


Figure 68: AEOS - System Properties



Update the below settings for performing enrollment from Nedap:

 04.01 - General Default Identifier Type: Select the identifier type created for enrollment. For example: 'IXMEnroll'.

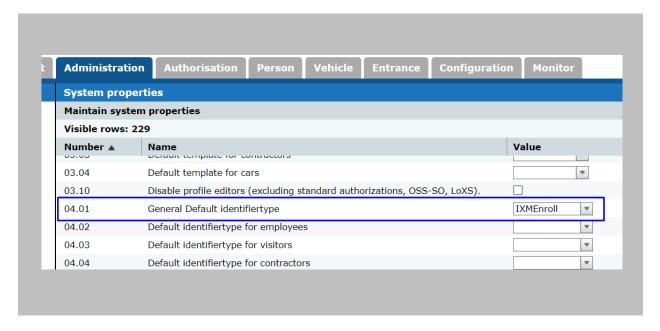


Figure 69: AEOS - System Properties Default Identifier



 12.36 - Default BioAPI verification method (overrides default verification method): Select the identifier type created for enrollment. For example: 'IXMEnroll'.

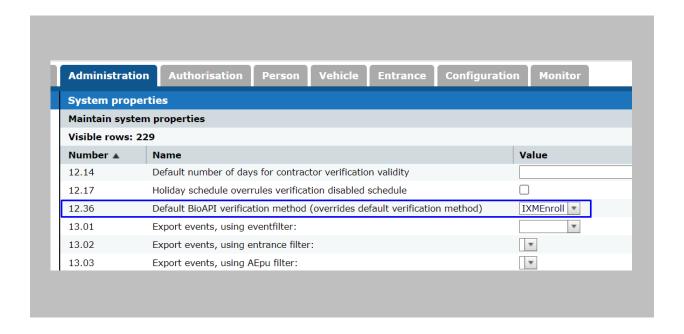


Figure 70: AEOS - System Properties Default BioAPI Verification

• 44.36 - Enable biometric API: Select the checkbox to enable biometric API.

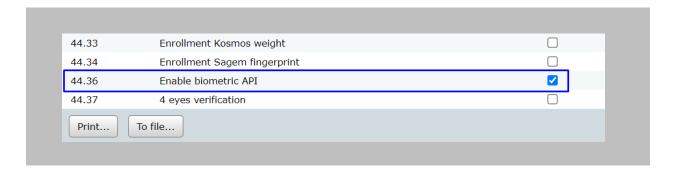


Figure 71: AEOS - System Properties Enable Biometric API

Click on OK.





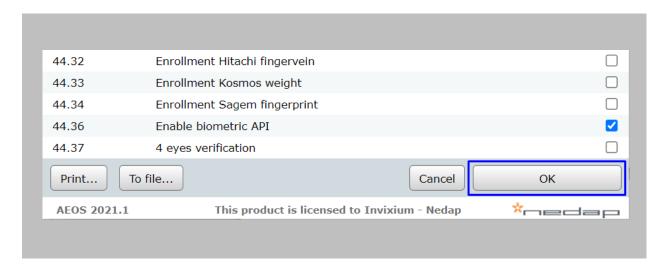


Figure 72: AEOS - Save System Properties

Once all the configurations are saved, restart **AEOS** services.

#### STEP 14

Go to the location where IXM WEB is installed. Open the web.config file to make changes related to the enrollment.

#### STEP 15

Note: In case of an upgrade of IXM WEB from any previous release to 3.0.36.0, preconfiguration for re-enrollment is required.

Update the below details in web.config file:

Under httpProtocol>> customHeaders replace Content Security Policy with below:
 <add name="Content-Security-Policy"</li>

value="frame-ancestors 'self' https://ixm-qa12:8443/aeos/; script-src 'self' 'unsafe-inline' 'unsafe-eval' http://localhost:1400; style-src 'self' 'unsafe-inline'"/>

Replace <a href="https://ixm-ga12:8443/aeos/">https://ixm-ga12:8443/aeos/</a> with valid AEOS URL



• For enrollment Set Cookiesamesite, Samesite to "None" and requireSSL to "true" like below:

```
<sessionState mode="InProc" timeout="60" cookieSameSite="None"
cookieName="Invixium_SID"
sessionIDManagerType="IXMWebMVC4.Helper.CustomSessionIDManager,IXMWe
bMVC4"/>
<httpCookies httpOnlyCookies="true" sameSite=" None" requireSSL="true"/>
<globalization culture="en-US" uiCulture="auto" enableClientBasedCulture="true"/>
<roleManager enabled="true"/>
<authentication mode="Forms">
<forms loginUrl="~/Home/Logout" timeout="60" slidingExpiration="true"
requireSSL="true" cookieSameSite=" None "/>
</authentication>
```

STEP 16

Reset IIS



## Enrollment using Nedap Dashboard URL (recommended)

Note: It is recommended to use Nedap Dashboard URL for enrollment purposes instead of Nedap AEOS application.

Procedure

STEP 1

Open the AEOS application using Dashboard URL (e.g. <a href="https://ixm-qa12:8443/dashboard">https://ixm-qa12:8443/dashboard</a>)

#### STEP 2

Click **Person** tab → Search person to enroll → Select Person from the list

#### STEP 3

Open Badge Editor → Select enrollment Badge type → Click Re(enroll) button

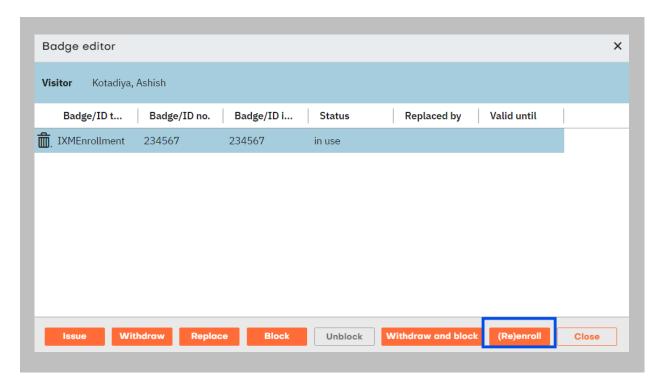


Figure 73: Nedap Dashboard Badge Editor



IXM WEB application will open → Enter login credentials. For first time login select **Remember** Me → click **Sign In**.

#### STEP 5

Complete enrollment of face, fingerprint or fingervien based on requirement  $\rightarrow$  Click on Save.  $\rightarrow$  close the browser.

Follow <u>Invixium Enrollment guidelines</u> for proper enrollment of faces, fingerprints, and finger veins



## **Enrollment using Nedap AEOS application**

#### STEP 1

Open the **AEOS** application using Dashboard URL (e.g. <a href="https://ixm-qa12:8443/dashboard">https://ixm-qa12:8443/dashboard</a>) → Select employee/visitor and click on the 'Enroll Biometric Identifiers' button → Perform enrollment from this view.

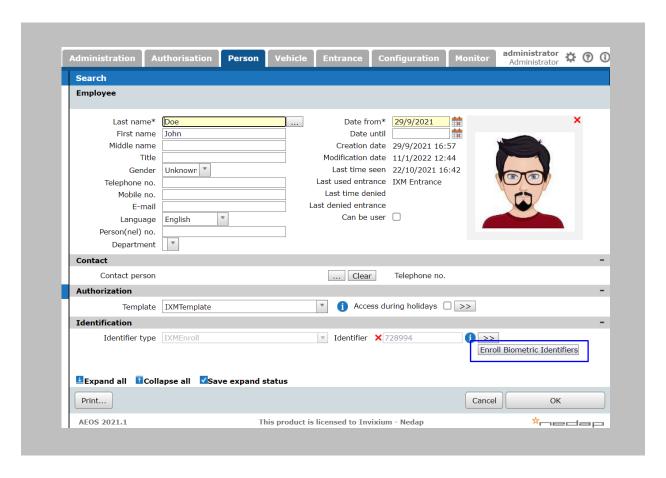


Figure 74: AEOS - Enroll Button



#### **RESULT**

The 'Enroll Biometric Identifiers' button will be displayed on the Employee/Visitors window.

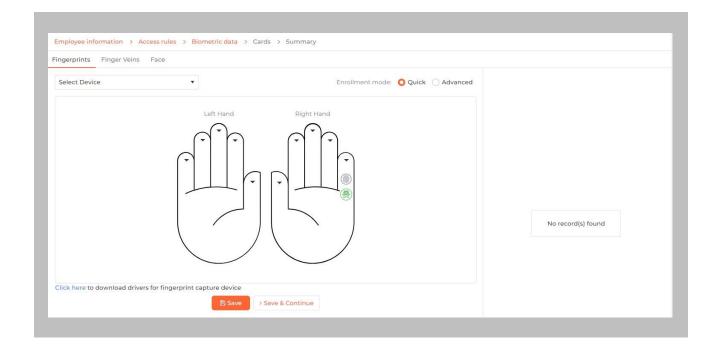


Figure 75: AEOS - Biometric Enrollment

Follow <u>Invixium Enrollment guidelines</u> for proper enrollment of faces, fingerprints, and finger veins.



### 16. Enrollment Best Practices

## Fingerprint Enrollment Best Practices

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

## **Avoid Poor Fingerprint Conditions**

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

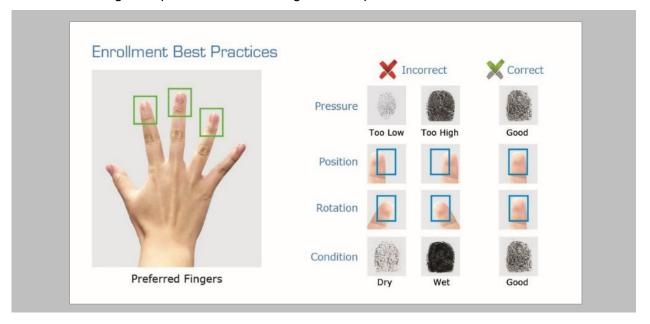


Figure 76: Fingerprint Enrollment Best Practices



## Fingerprint Image Samples

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

Figure 77: Fingerprint Images Samples



## Fingerprint Imaging Do's and Don'ts

#### Do's:

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

#### Remember to:

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

#### Don'ts:

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



## Finger Vein Enrollment Best Practices

- Invixium recommends using the index and middle fingers for enrollment.
- Make sure your fingertip is resting on the finger guide at the back of the sensor cavity.
- The finger should be completely straight for the best finger vein scan.
- Ensure that the finger is not turned or rotated in any direction.

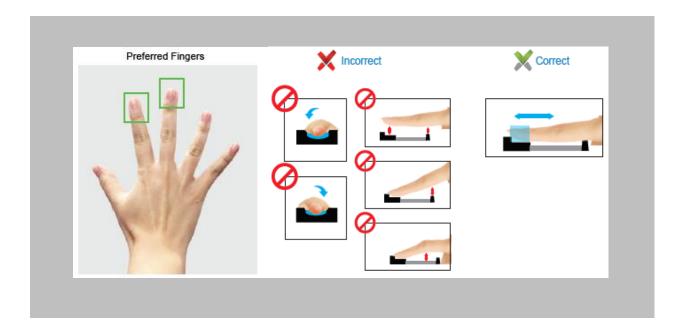


Figure 78: Finger Vein Enrollment Best Practices



## Face Enrollment Best Practices

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

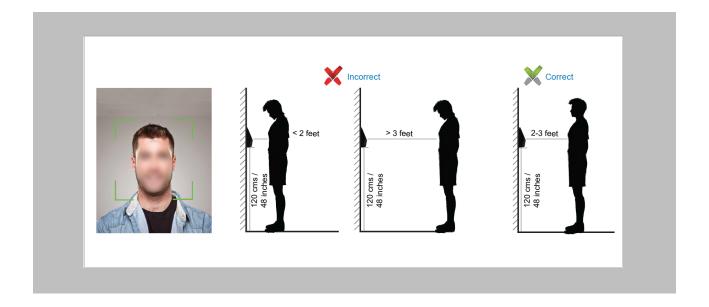


Figure 79: Face Enrollment Best Practices



## 17. Prerequisites for Getting Access in AEOS

The following configurations are required in Nedap AEOS for user access.

Procedure

#### STEP 1

Open **AEmon** and select the **AEpu** that is connected to the Invixium device.

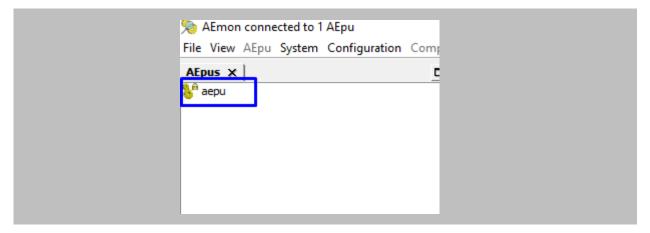


Figure 80: AEmon – Aepu



STEP 2
Go to View → Select Configuration.

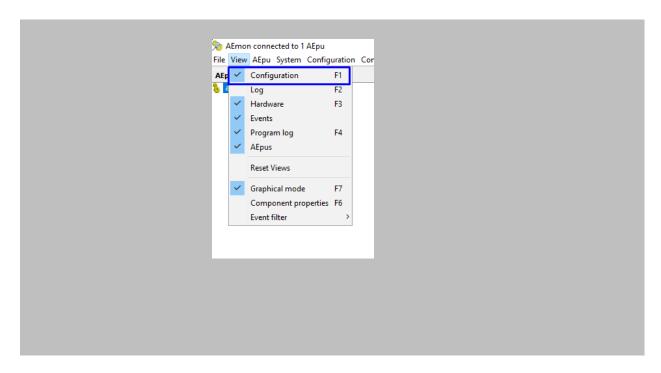


Figure 81: AEmon - AEpu Configuration



STEP 3
On the Configuration window search for StandardDoor → Add StandardDoor.

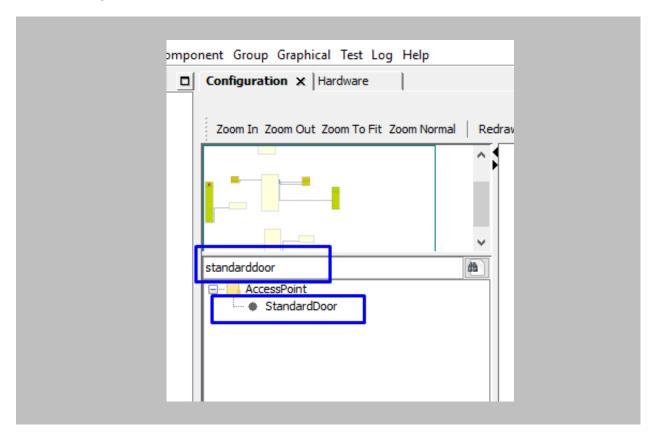


Figure 82: AEmon - Add Standard Door



STEP 4
Right Click on StandardDoor → Select Rename component.

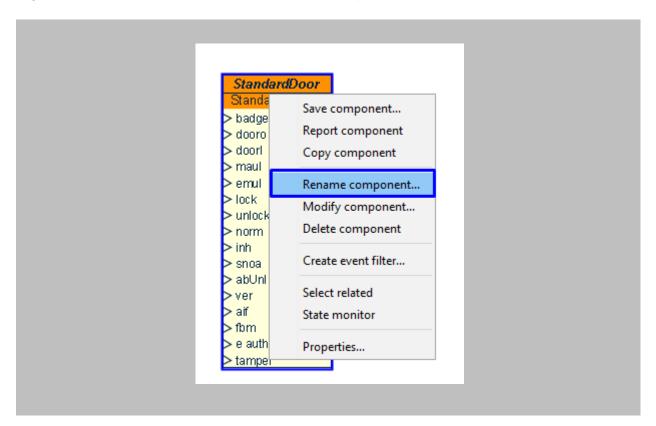


Figure 83: AEmon - Rename Component



Define the name of standard door → Click on OK.

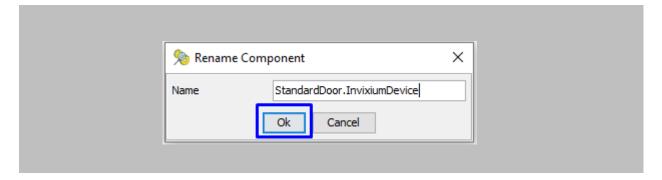


Figure 84: AEmon - Rename Standard Door

#### STEP 4

To deploy changes on the panel, right-click anywhere on the 'Configuration' window → click on Deploy Configuration.

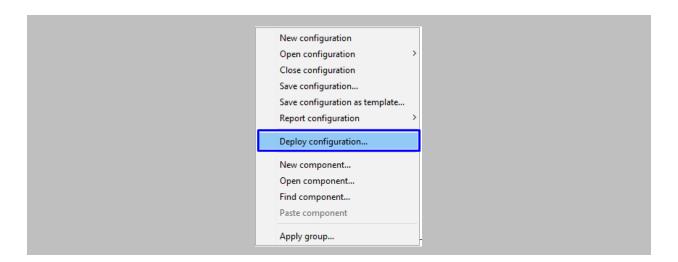


Figure 85: AEmon - Deploy Configuration



Open the **AEOS** application → From the AEOS menu bar, go to **Configuration** → **Maintenance** → **Confirm Access Points.** 

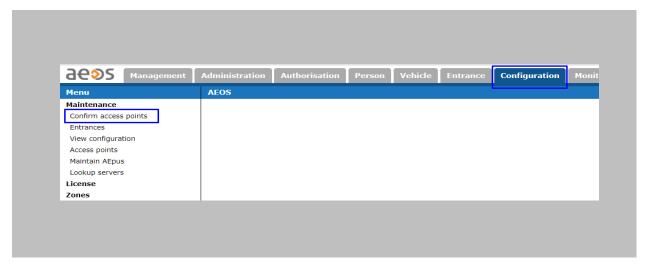


Figure 86: AEOS - Confirm Access Points

#### STEP 6

All the created **Access Points** will be displayed on this page → Select **Access Point** and click on the **Add** button.

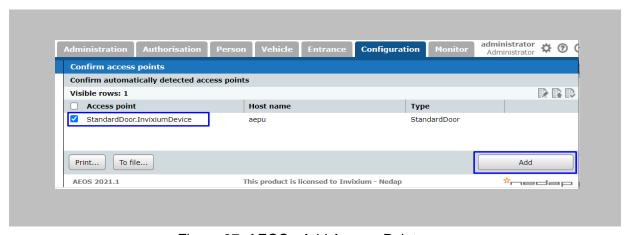


Figure 87: AEOS - Add Access Point



Once the **Access Point** is confirmed it will be displayed on the **Access Points** window $\rightarrow$  To verify, go to **Configuration**  $\rightarrow$  **Maintenance**  $\rightarrow$ **Access Points**.

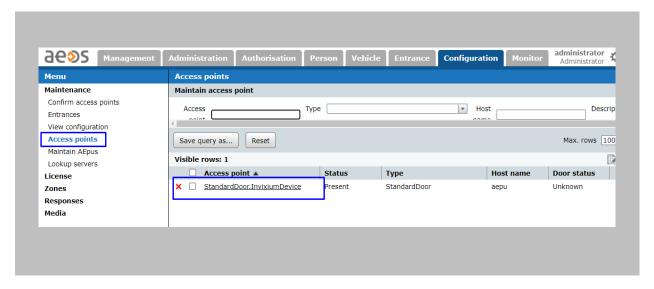


Figure 88: AEOS - Access Point

#### STEP 7

To add a new entrance, go to **Configuration** → **Maintenance** → **Entrances**.

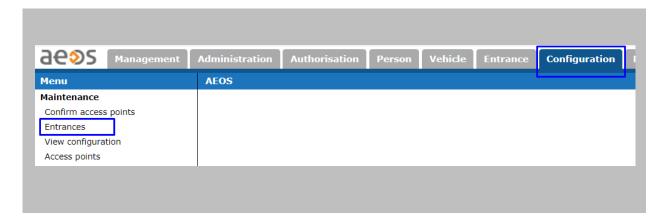


Figure 89: AEOS - Entrances

Click on the **New** button.





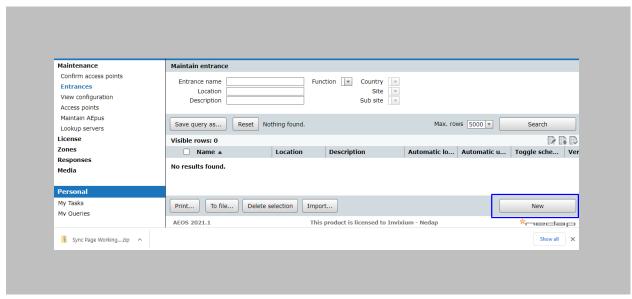


Figure 90: AEOS - New Entrance

# STEP 8 Define Entrance Name → Click on Add Access Points button.

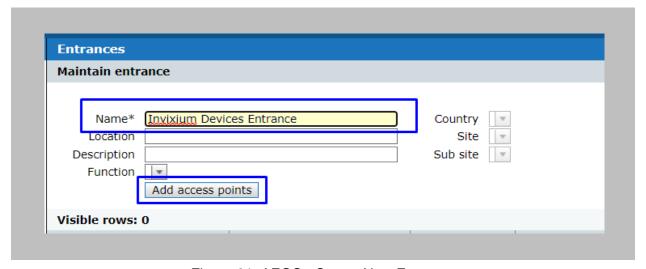


Figure 91: AEOS - Create New Entrance

Select the Access Point that you want to add for this Entrance and click on the OK button.

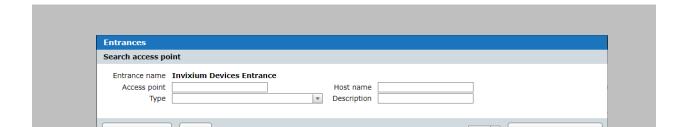




Figure 92: AEOS - Add Access Point in Entrance

Once the Access Point is added click on the OK button.

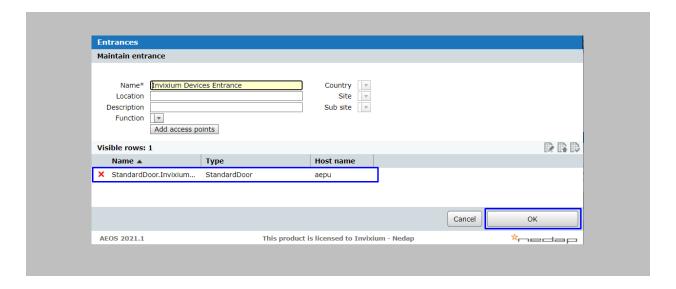


Figure 93: AEOS - Save Entrance

#### STEP 9

Go to Authorization → Maintenance → Day/time Schedules to create a new schedule.

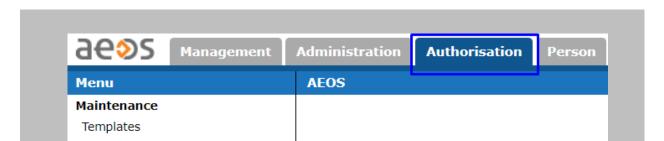




Figure 94: AEOS - DayTimeSchedules

Select Weekly Schedule from the dropdown and click on the New button.

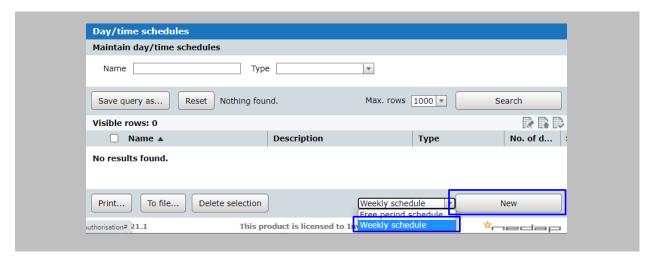


Figure 95: AEOS - New Weekly Schedule



Define **Schedule Name** → Define the start and end time for the new schedule as per your requirement → Click on the **OK** button.

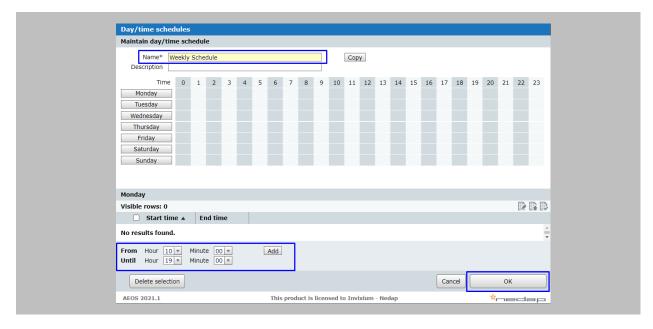


Figure 96: AEOS - Define Weekly Schedule

#### STEP 11

For Employee Groups creation, go to Authorization → Maintenance → Employee Group.

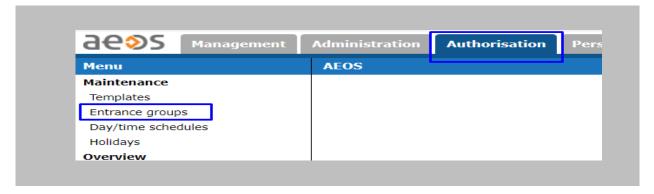


Figure 97: AEOS - Entrance Groups





Click on the New button.

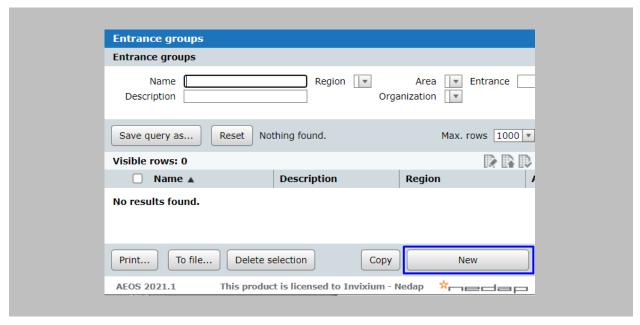


Figure 98: AEOS - New Entrance Group

#### STEP 12

Define Entrance Group Name → Click on Add Entrances button.

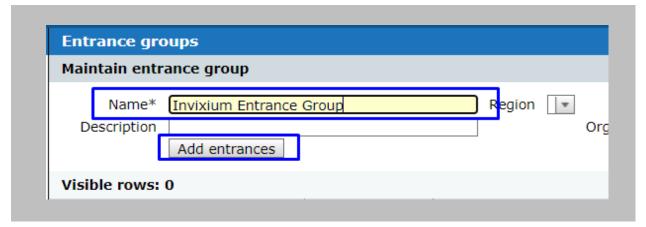


Figure 99: AEOS - Add Entrance in Entrance Group

Select the Entrance which you want to add to this Entrance Group and click on the OK button.





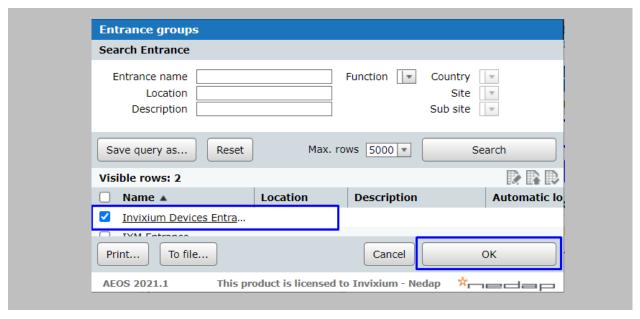


Figure 100: AEOS - Add Entrance Group

Once the **Entrance** is added click on the OK button.

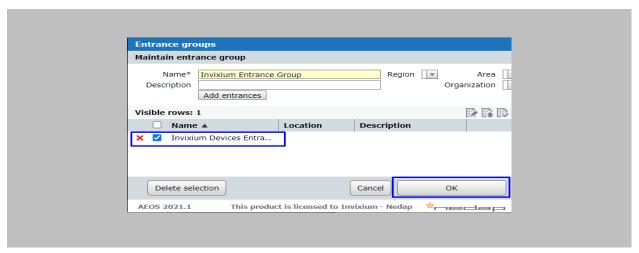


Figure 101: AEOS - Save Entrance Group



For Template creation, go to Authorization → Maintenance → Templates.

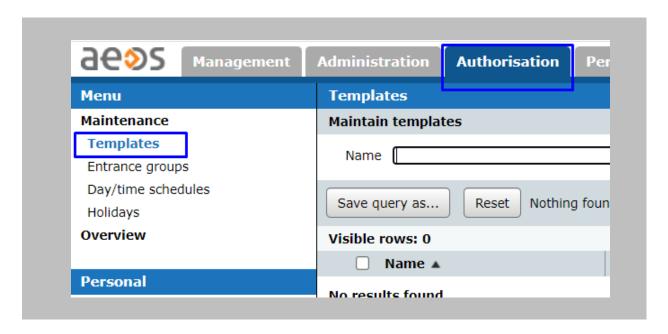


Figure 102: AEOS - Template

Click on the New button.

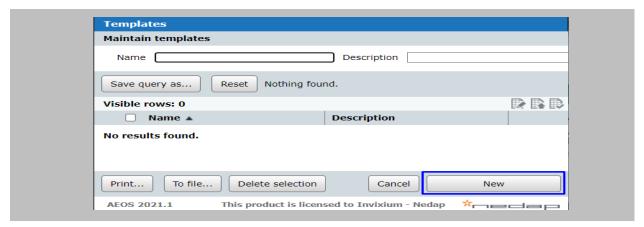


Figure 103: AEOS - New Template





Define Template Name → Click on the Add button for adding an Entrance Group to the Template.

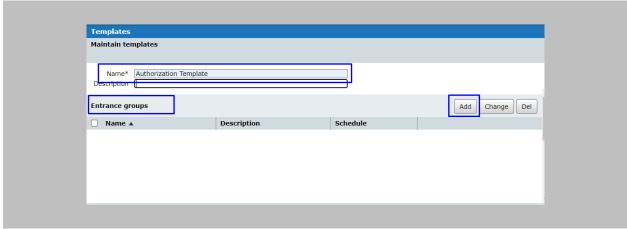


Figure 104: AEOS Template - Add Entrance Group

Select the Entrance Group from the list of Entrance Groups and click on the OK button.

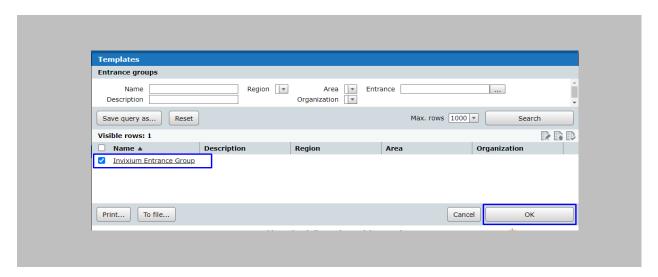


Figure 105: AEOS Template - Add Entrance Group



Select **Schedule** from the dropdown for the selected **Entrance Group** and click on the **OK** button.

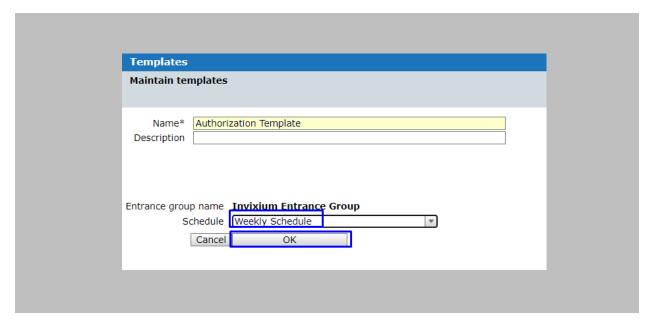
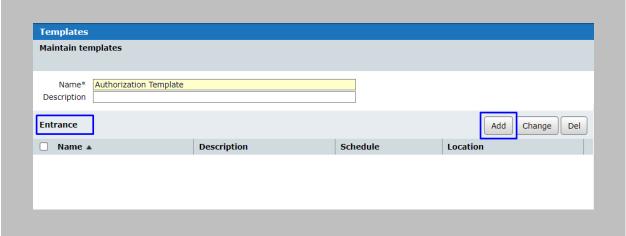


Figure 106: AEOS Template - Assign Schedule to Entrance Group

#### STEP 15

Click on the Add button to add an Entrance to the Template.



rigure 107. A⊏OS rempiate - Aud ⊑ntrance





Select the **Entrance** from the list of **Entrances** and click on the **OK** button.

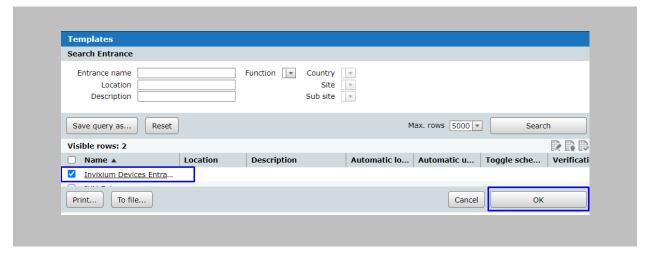


Figure 108: AEOS Template - Save Entrance

Select the **Schedule** from the dropdown for the selected **Entrance** and click on the **OK** button.

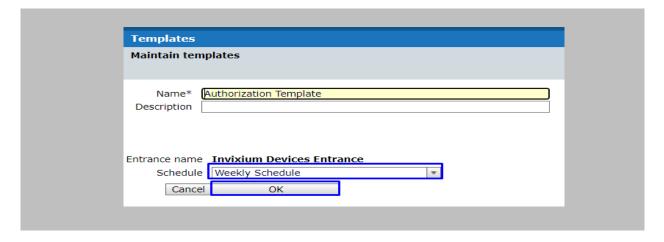


Figure 109: AEOS Template - Assign Schedule to Entrance



Once **Entrances** and **Entrance Groups** are added to the **Template**, click on the OK button.

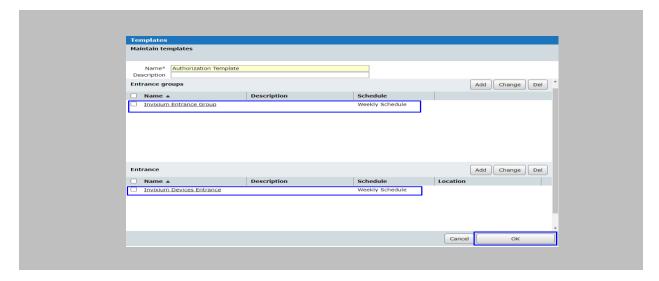


Figure 110: AEOS - Save Template



Assign the created **Template** to a new/existing person from the Authorization tab in order to grant access to the person.

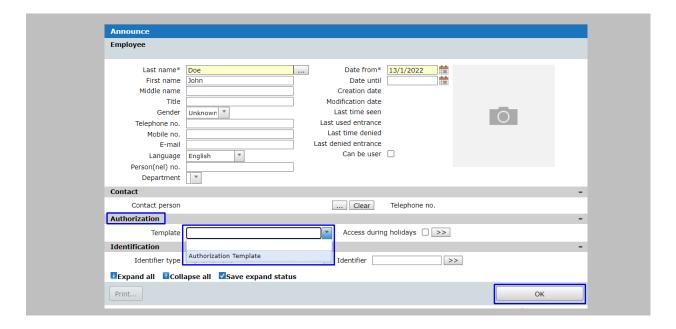


Figure 111: AEOS - Assign Template to Person

#### **RESULT**

All the **Employees/Visitors** with **Authorization Templates** will only get access in **Nedap AEOS**.

115



# 18. OSDP Configuration

The following configurations are required in IXM WEB and Nedap AEOS to use the OSDP feature.



#### Note:

- The Nedap panel needs OSDP-supported firmware to use OSDP communication with the Invixium device. It can be found at the default location of AEOS i.e., C:\AEOS\AEmon\firmware
- 2. Wiegand Out should be in the Invixium device (Refer <u>Assign Wiegand to Invixium Readers</u>).
- Standard Door should be created, and all the prerequisites should be configured to get access in the Nedap AEOS (Refer to <u>Prerequisites for getting Access in AEOS</u>).

#### Procedure

#### STEP 1

From Home, click the Devices tab. Select the required Device and navigate to Access Control 

Click on OSDP.

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

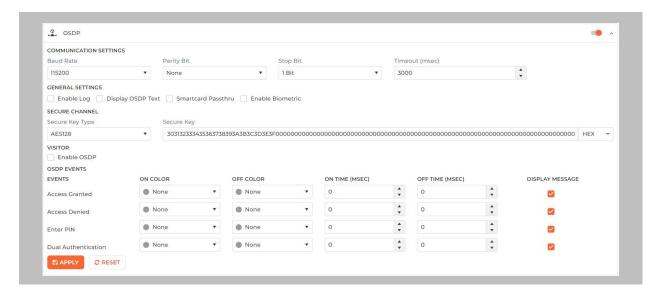


Figure 112: IXM WEB - OSDP Settings





# Supply values for the configuration settings below:

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



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

Table 6: IXM WEB - OSDP Configuration Options

ů

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

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

Table 7: IXM WEB - OSDP Text Options





Click **Apply** to save the settings.

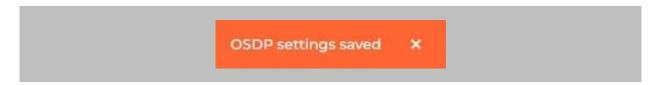


Figure 113: IXM WEB - Save OSDP Setting

#### 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 Nedap AEOS.

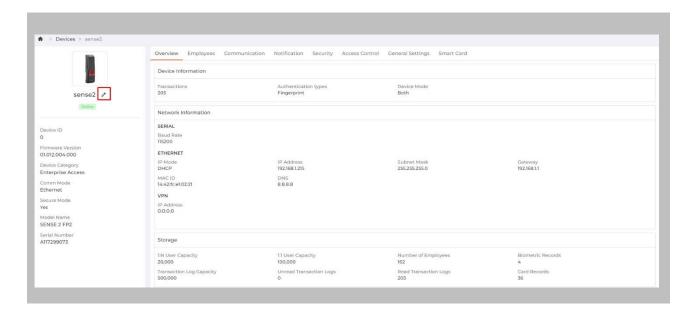


Figure 114: IXM WEB - Edit Device

119



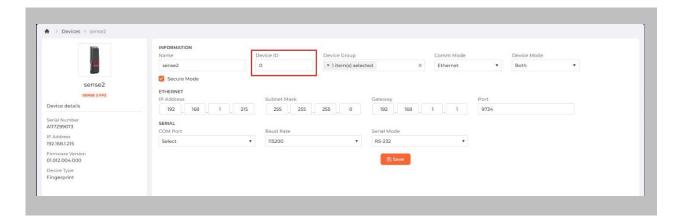


Figure 115: IXM WEB - Edit Device Options

 $\mathring{\mathbb{L}}$  Note: Invixium's reader address should be the same as the OSDP reader address.

#### STEP 5

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

#### STEP 6

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

#### STEP 7

Once OSDP settings are applied to the Invixium device, the device will be added to 'AEmon' as new hardware.



Figure 116: IXM WEB - Disable Panel Feedback





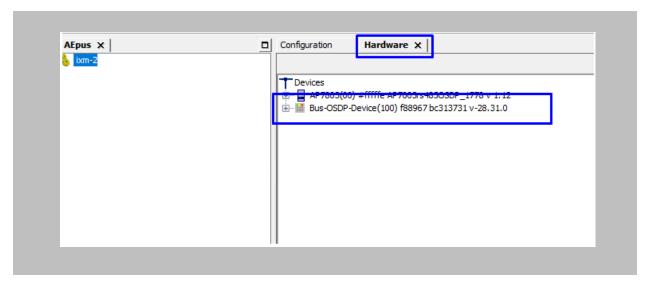


Figure 117: AEmon - OSDP Device

Click on  ${f Configuration} o$  Define behavior of the OSDP device as shown in the image below.

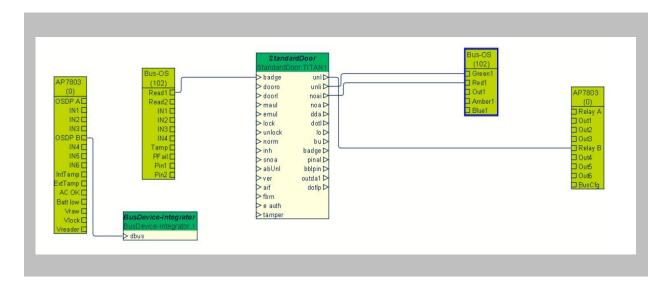


Figure 118:AEmon - OSDP Device Behavior





# STEP 9 Right click on Standard Door → Properties.

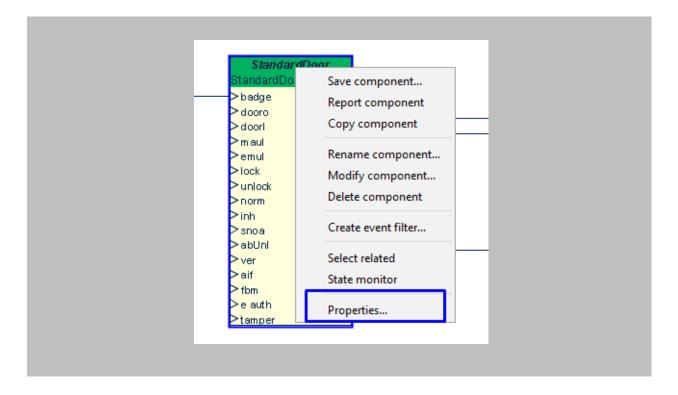


Figure 119: AEmon - Standard Door Property



Click on the ellipsis button of Primary Identifier Type.

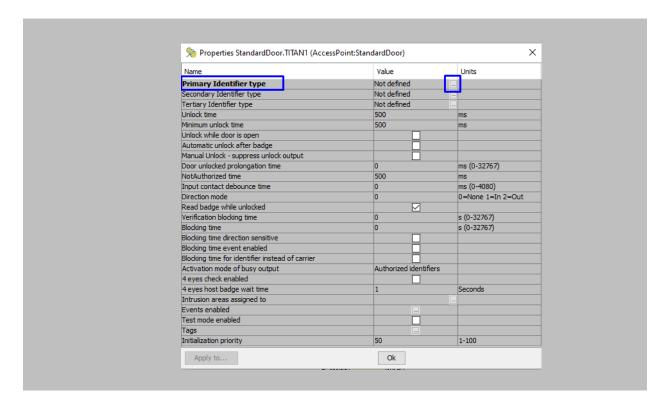


Figure 120: AEmon - Primary Identifier Type



Configure identifier type as shown in the image below and click on OK.

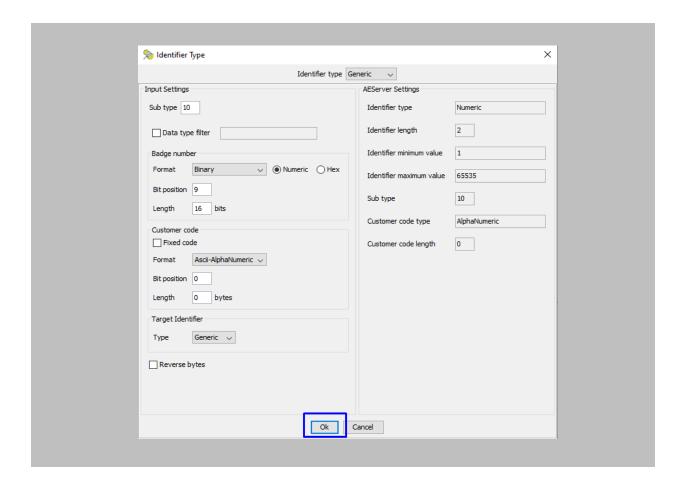


Figure 121: AEmon - Configure Primary Identifier Type



STEP 11

Configured Identifier Type will be displayed as **Primary Identifier Type** → click on **OK**.

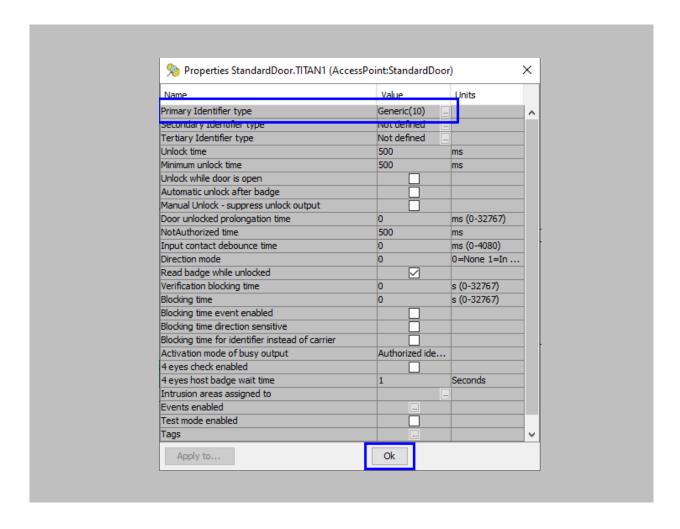


Figure 122: AEmon - Generic Primary Identifier Type



To deploy changes on the panel, right click anywhere on the 'Configuration' window → click on Deploy Configuration.

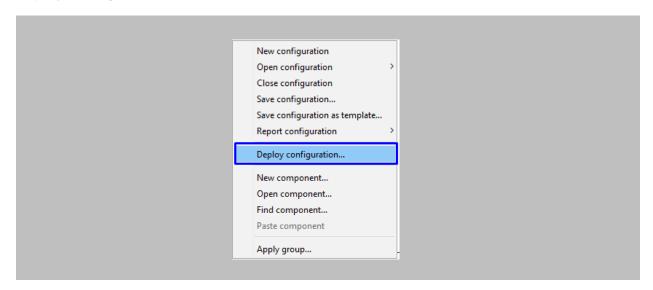


Figure 123: AEmon - Deploy Configuration



# 19. DIP Configuration

The following configurations are required in IXM WEB and Nedap AEOS to use the DIP feature.



#### Note:

- 1. Wiegand Out should be in the Invixium device (Refer <u>Assign Wiegand to Invixium</u> Readers).
- 2. Standard Door should be created, and all the prerequisites should be configured to get access in Nedap AEOS (Refer to <u>Prerequisites for getting Access in AEOS</u>).

#### Procedure

#### STEP 1

Open **AEmon**, select the **AEpu** that is connected to the Invixium device → go to the **Configuration tab**.

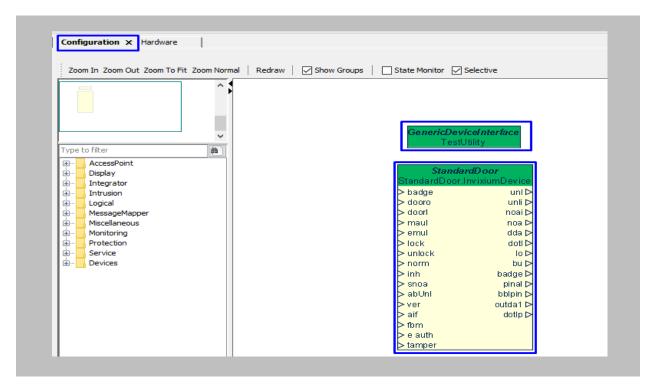


Figure 124: AEmon - Configuration tab

127



# STEP 2 Search for ACLabelConverter → Add ACLabelConverter.



Figure 125: AEmon - Add ACLabelConverter



STEP 3

Connect 'Output Data1' of StandardDoor with 'Access Point Status' of ACLabelConverter.

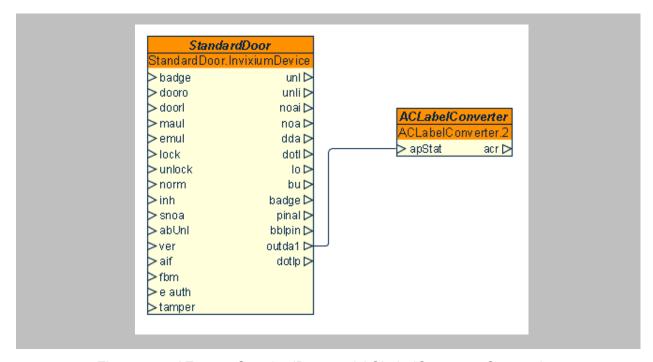


Figure 126: AEmon - StandardDoor and ACLabelConverter Connection



Right click on GenericDeviceInterface → click on Properties.

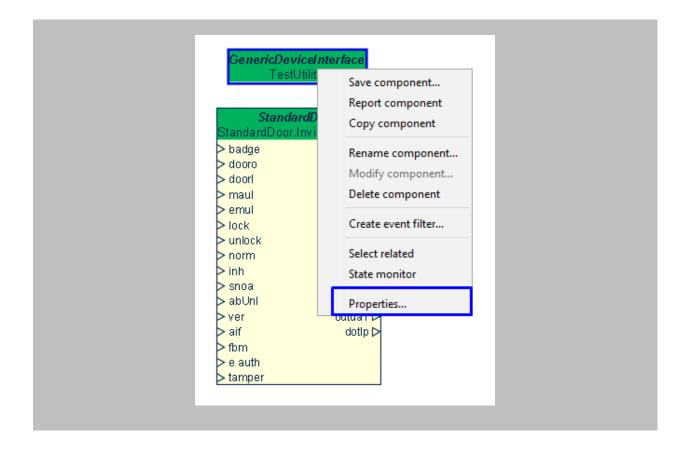


Figure 127: AEmon - GenericDeviceInterface Properties



Click on the ellipsis button of **Device Channel Address**.

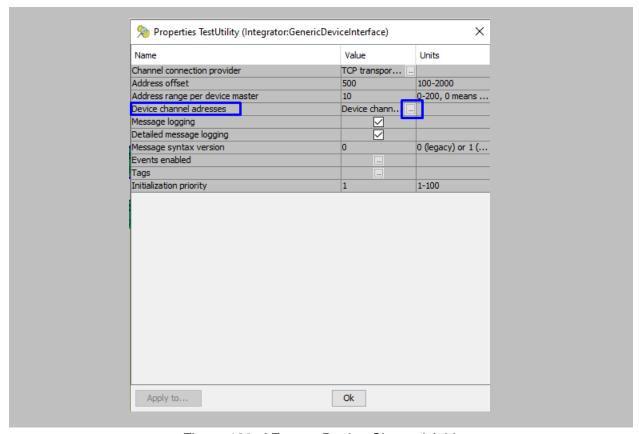


Figure 128: AEmon - Device Channel Address



Click on the Add button → Define 8 digits of the Channel address → click on the OK button.

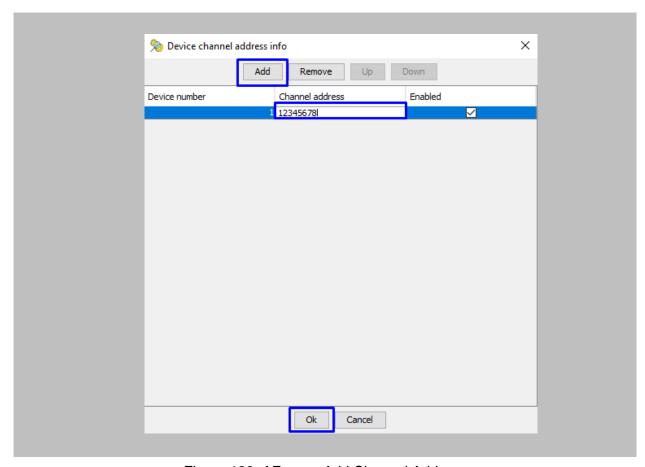


Figure 129: AEmon - Add Channel Address



Deploy changes on the panel. To deploy, right click anywhere on the 'Configuration' window → click on Deploy Configuration.

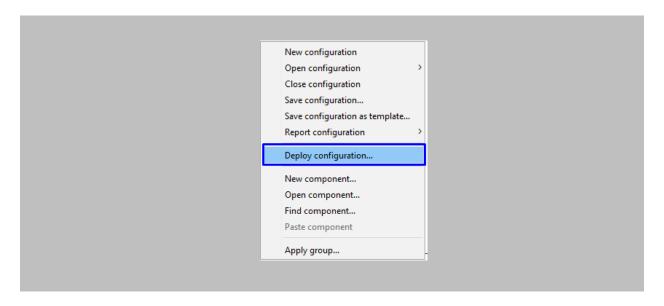


Figure 130: AEmon - Deploy Configuration



Open IXM WEB, from the Left Navigation Pane go to Link → click on the AEOS (Nedap) icon → click on the Add DIP Settings button.

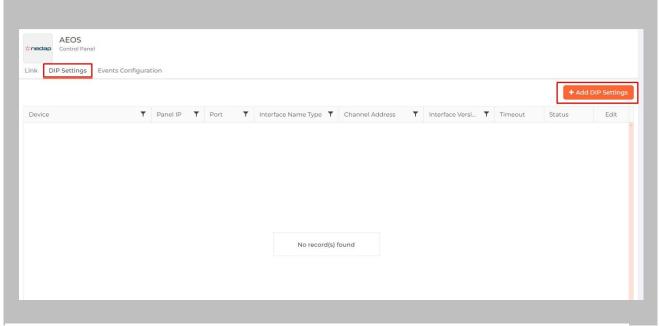


Figure 131: IXM WEB - Add DIP Settings

#### STEP 9

Enter the below details:

- Status: Select 'Status' to enable DIP settings on the device.
- Debug: This logs DIP events for support and debugging purposes. Invixium recommends disabling this feature unless needed.
- **Device:** Select the Invixium device on which you want to enable **DIP settings**.
- Port: Enter the communication port number which is used for communication between the Invixium device and the Nedap panel. Default value: 8001
- **IP:** Enter the **IP address** of the panel.
- Channel Address: Enter the Channel address specified in AEmon (Refer Add Channel Address in AEMon).
- **Timeout:** Provide a **timeout** value (in seconds) for getting a response from the Nedap panel. Default value: 10 seconds.

134



Click on the **Save** button.

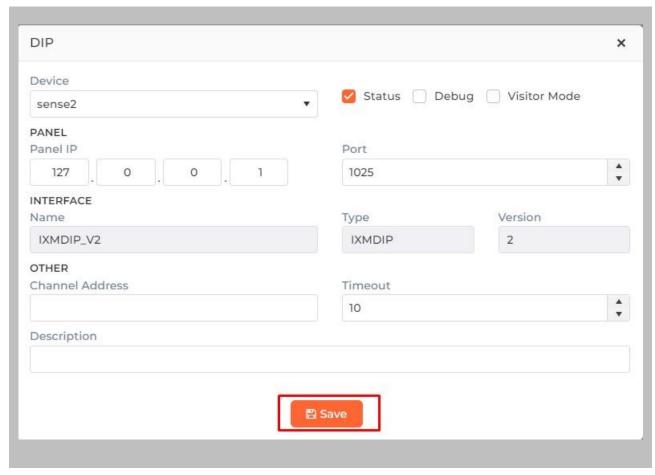


Figure 132: IXM WEB - Save DIP Settings



Once DIP settings are applied on the Invixium device, the device will be added in 'AEmon' as new hardware.

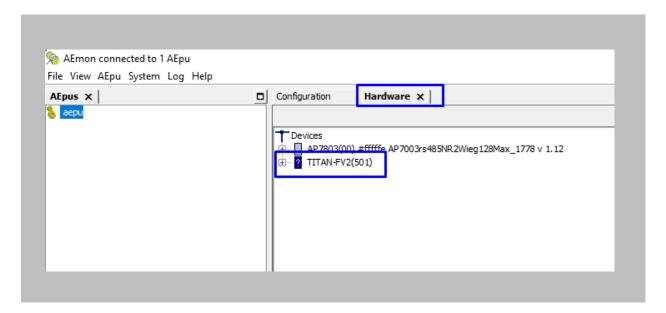


Figure 133: AEmon - DIP Device



Go to the **Configuration** taband define the behavior device and panel as shown in the below image.

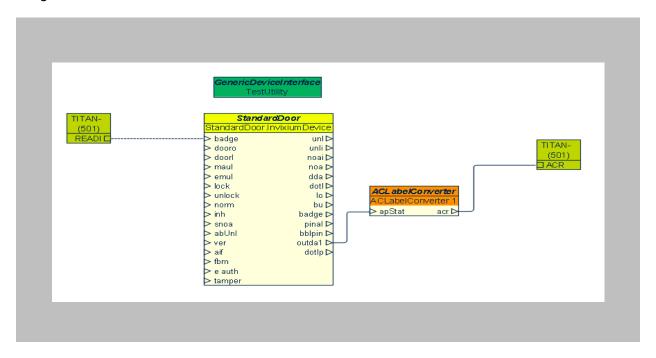


Figure 134: AEmon - DIP Device Behavior

137



STEP 12
Right click on Standard Door → Properties.

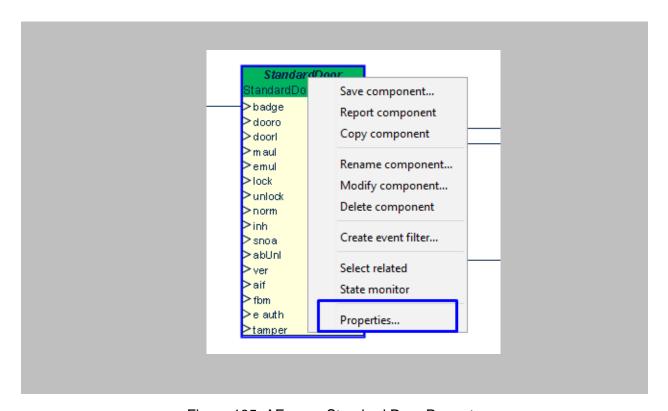


Figure 135: AEmon - Standard Door Property



STEP 13
Click on the ellipsis button of **Primary Identifier Type**.

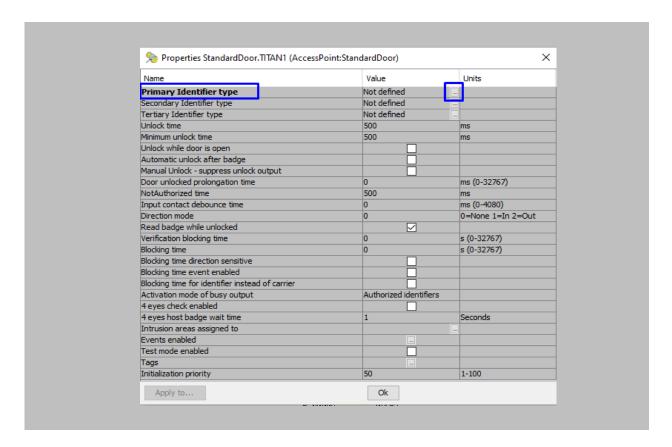


Figure 136: AEmon DIP - Primary Identifier Type



Configure identifier type as shown in the below image and click on OK.

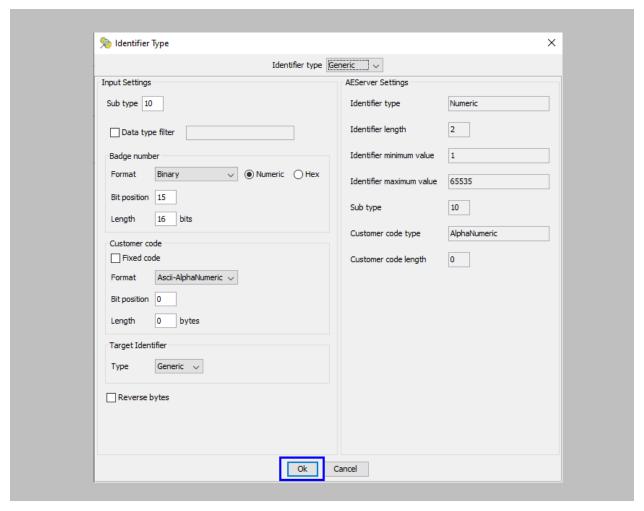


Figure 137: AEmon DIP - Primary Identifier Configuration



STEP 14

Configured Identifier Type will be displayed as **Primary Identifier Type** → click on **OK**.

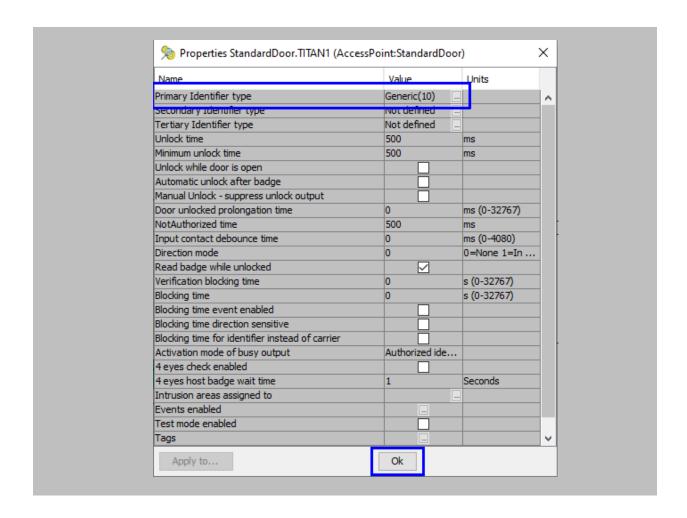


Figure 138: AEmon DIP - Generic Primary Identifier Type



In order to deploy changes on the panel, right click anywhere on the 'Configuration' window > click on Deploy Configuration.

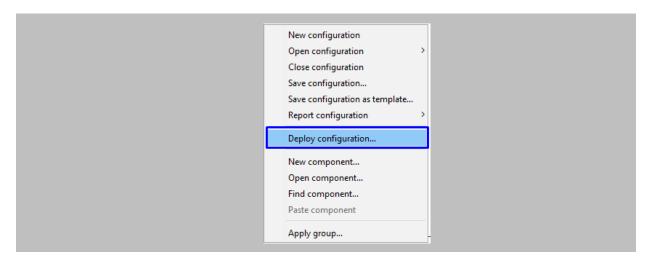


Figure 139: AEmon - Deploy Configuration



# 20. Wiegand Configuration

The following configurations are required in IXM WEB and Nedap AEOS to use the Wiegand feature.



#### Note:

- 1. Nedap panel's firmware must be compatible with Wiegand to use the Wiegand feature with the Invixium device. It can be found at the default location of AEOS i.e., C:\AEOS\AEmon\firmware
- 2. Wiegand Out should be in the Invixium device (Refer <u>Assign Wiegand to Invixium Readers</u>).
- 3. Standard Door should be created, and all the prerequisites should be configured to get access in Nedap AEOS (Refer to <u>Prerequisites for getting Access in AEOS</u>).

#### Procedure

#### STEP 1

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



Open **AEmon**, select the **AEpu** that is connected to the Invixium device → go to the **Configuration tab** → Define the behavior of the device as shown in the image below.

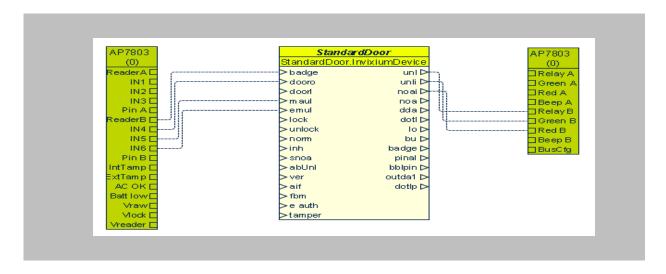


Figure 140: AEmon - Wiegand Device Behavior

#### STEP 3

Right Click on Standard Door → Properties.

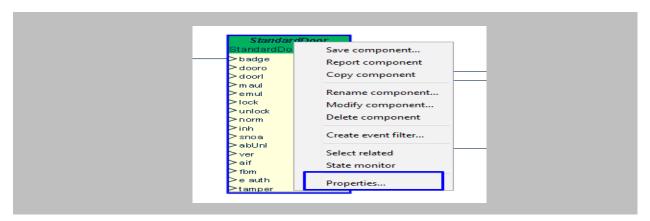


Figure 141: AEmon - Standard Door Property



Click on the ellipsis button of Primary Identifier Type.

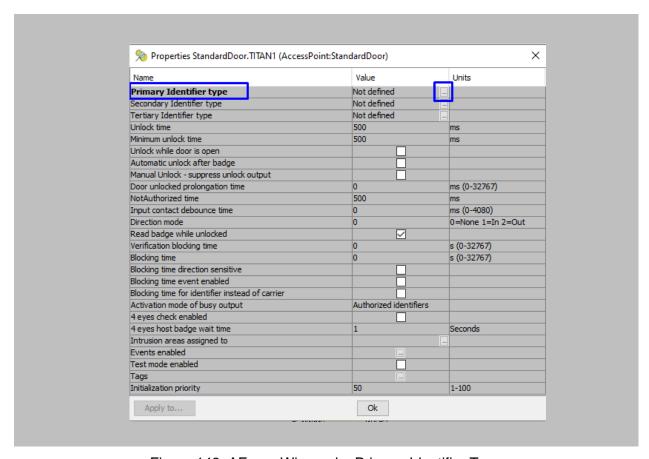


Figure 142: AEmon Wiegand - Primary Identifier Type



Configure identifier type as shown in the image below and click on OK.

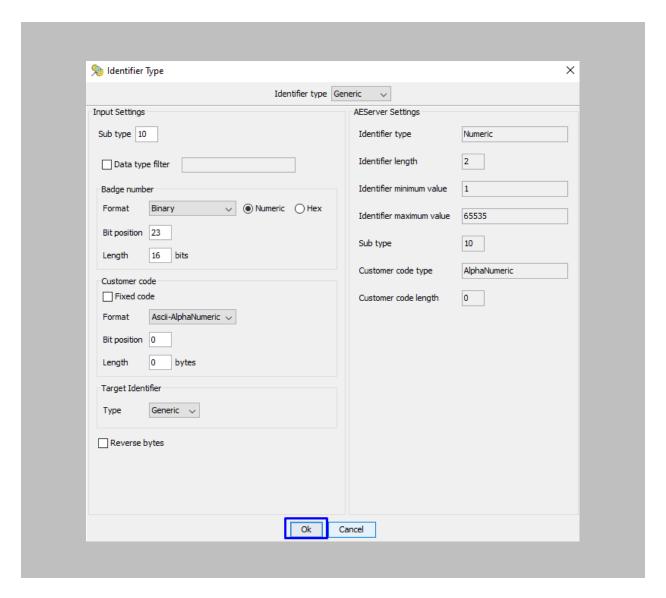


Figure 143: AEmon Wiegand - Configure Primary Identifier Type



STEP 5
Configured Identifier Type will be displayed as **Primary Identifier Type** → click on **OK**.

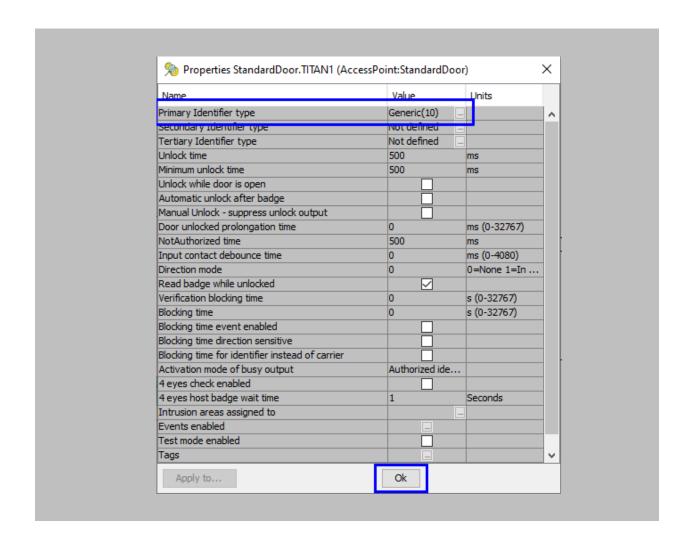


Figure 144: AEmon Wiegand- Generic Primary Identifier Type



In order to deploy changes on the panel, right click anywhere on the 'Configuration' window > click on Deploy Configuration.

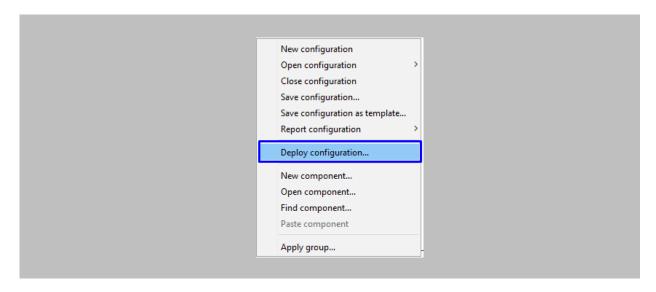


Figure 145: AEmon Wiegand- Deploy Configuration



# 21. Appendix

# Pushing Configuration to Multiple Invixium Readers

Procedure

STEP 1

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

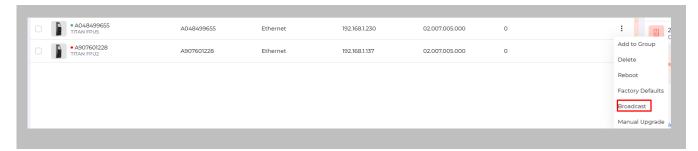


Figure 146: IXM WEB - Broadcast Option



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

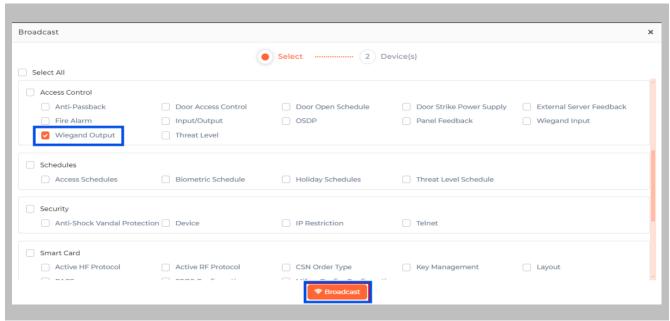


Figure 147: IXM WEB - Broadcast Wiegand Output Settings



Select the rest of the devices in the popup. Click **OK** to copy all Wiegand output settings of the source device to all destination devices.

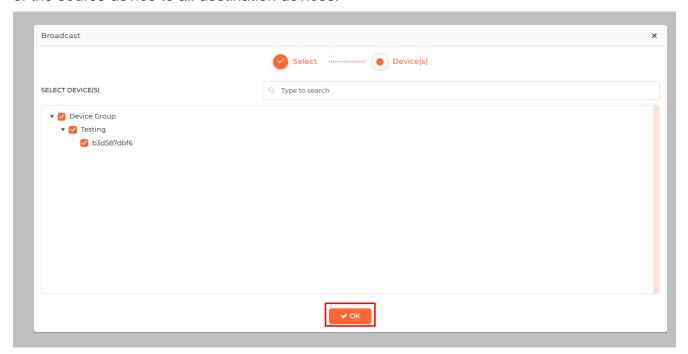


Figure 148: IXM WEB - Broadcast to Devices



# 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 earth ground wire provided in the install kit box to the **building earth** ground.

### STEP 3

Screw the **lug end** of the earth ground.

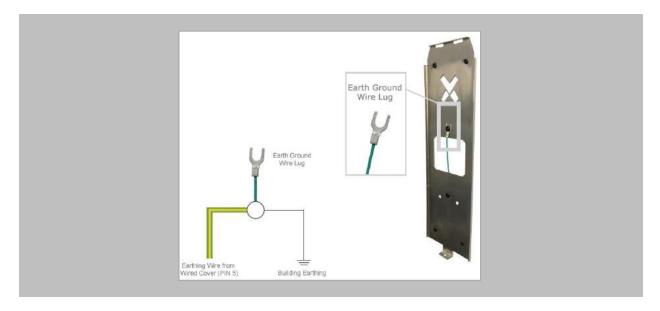


Figure 149: Earth Ground Wiring



# **WIRING**

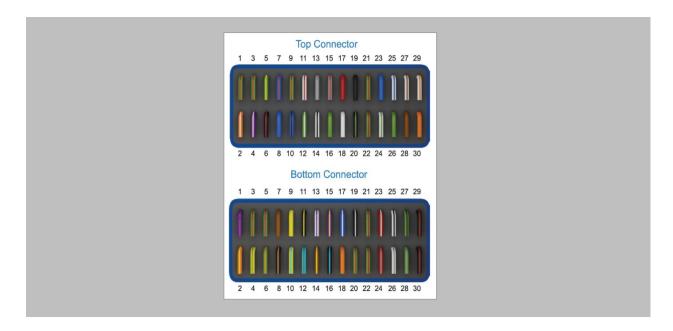
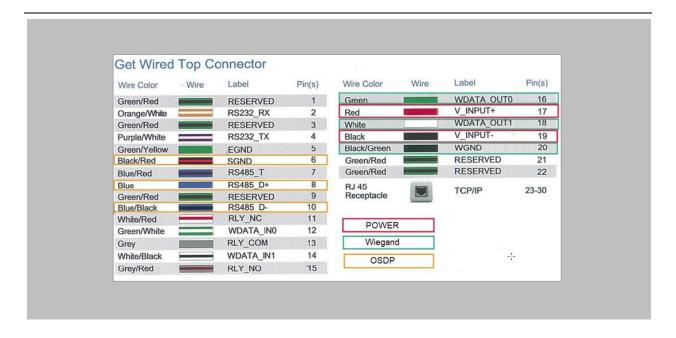


Figure 150: IXM TITAN – Top & Bottom Connector Wiring





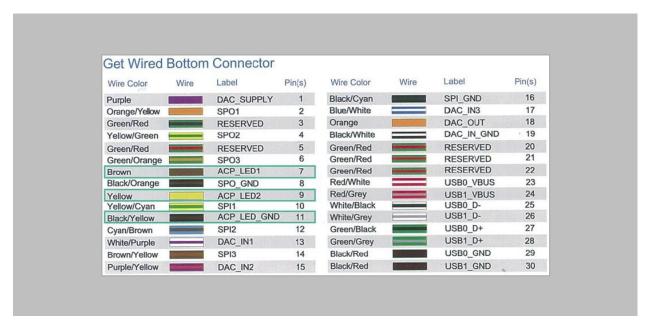


Figure 151: Power, Wiegand & OSDP Wires



All Invixium devices support Wiegand and OSDP.

Invixium devices can be integrated with a Nedap Controller on:

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

# Wiegand Connection

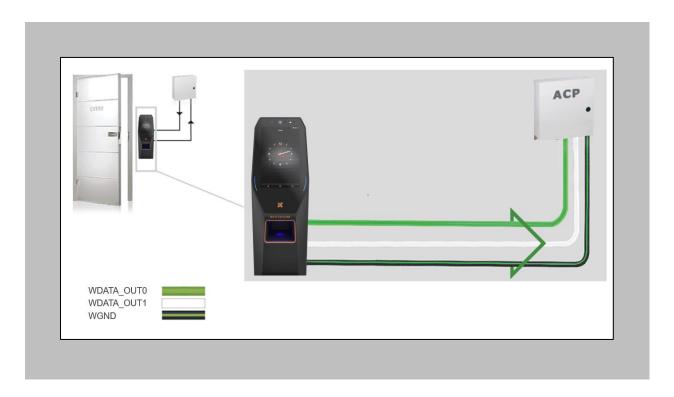


Figure 152: IXM TITAN - Wiegand

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

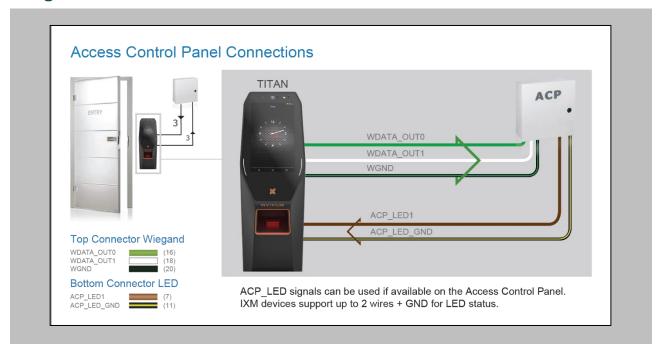


Figure 153: IXM TITAN - Panel Feedback

Please refer to the INGUIDE document provided for each product on <a href="Invixium.com">Invixium.com</a> under the **Download** section of the **Products** menu.



## **OSDP** Connections

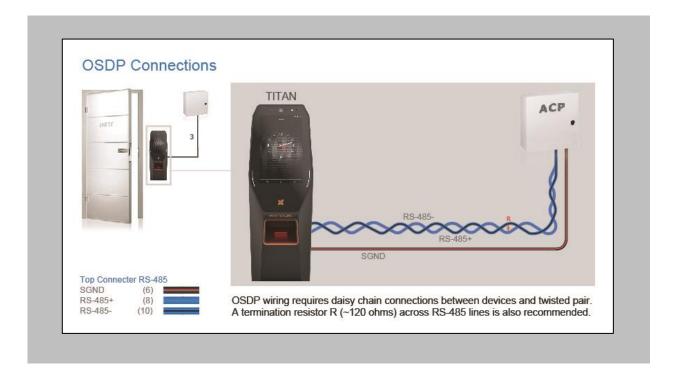


Figure 154: IXM TITAN - OSDP Connections

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



# 22. Troubleshooting

## Reader Offline from IXM WEB Dashboard

(i)

Note: Confirm communication of the IXM WEB server to the Invixium reader.

Procedure

### STEP 1

From Home, click the Devices tab.

### STEP 2

Select any device.

### STEP 3

Navigate to the Communication tab.

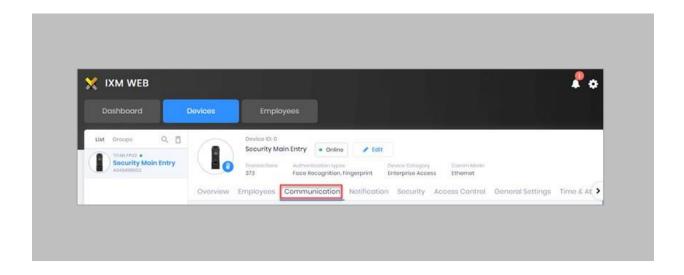


Figure 155: IXM WEB - Device Communication Settings



Scroll down and click on IXM WEB Server.



Figure 156: IXM WEB - Server URL Setting

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

### STEP 5

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

Format: <a href="http://IP\_IXMServer:9108">http://IP\_IXMServer:9108</a>



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

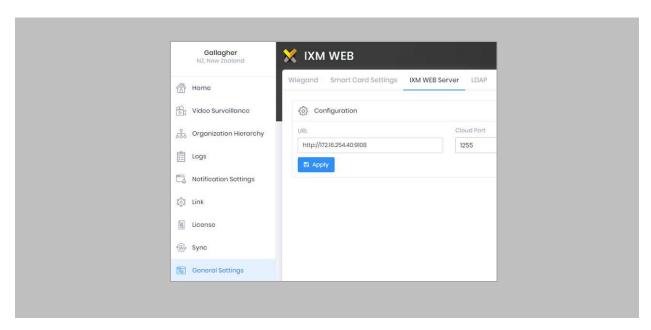


Figure 157: IXM WEB - Server URL Setting from General Setting



## Logs in IXM WEB Application

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

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



Figure 158: IXM WEB - Enable Device Logs

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

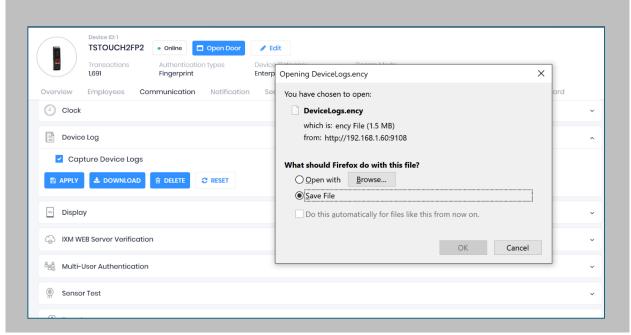


Figure 159: Save Device Log File

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



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

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

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

- Application 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. A filter option is available in the Application Log column.

### Logs folder location on IXM WEB Server:

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

Table 8: Logs Folder Location



# 23. Support

For more information relating to this document, please contact <a href="mailto:support@invixium.com">support@invixium.com</a>.

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