

IXM WEB Integration with SIEMENS SiPort

Installation Instructions

V3.0





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1. Introduction

Purpose

This document outlines the process of configuring the software integration between SIEMENS SiPort (SSP) and Invixium's IXM WEB.

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

- SiPort API to support SiPort integration.
- <u>'Sync All' feature</u> to resynchronize the database from SSP to IXM WEB
- MIFARE DESFire custom layout to support SIEMENS access card.

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 SIEMENS SiPort Software (where access rules for the users and the organization are managed).



The following sections will describe how to set up and configure IXM Link to keep IXM WEB users in sync with SiPort by using SIEMENS SiPort API to import cardholders.

Acronyms

Acronym	Description
API	SIEMENS SiPort API
ACPCS	Access Control Panel Configuration Software
SSP	SIEMENS SiPort
IXM	Invixium



Field Mappings

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

SSP Field	IXM Field	Notes
Auto ID	Internal mapping with ACPID	
Person ID	Employee ID	
First name	First Name	First Name is a mandatory field in IXM WEB and not mandatory in SiPort. While importing, if the First Name is null in SiPort, then the Last Name will be considered as the First Name in IXM WEB. If the Last Name is also null, then the Card Number will be considered as the First Name in IXM WEB.
Last name	Last Name	
ValidTo	Employee End Date	The start date for IXM WEB will be the date and time of import.
Gender	Gender	
Status	Suspend	An employee who is "Inactive" in SiPort will be marked as suspended in IXM WEB.
Cards	Prox ID	Multiple cards will be imported using a card array if they exists in SiPort.
Profiles	Employee Group, Device Group, and Sync Group	Setting Map Access Group to YES in configuration will create an employee group, device group, and sync group in IXM WEB. Further employees imported from SSP will be added to this created employee group andwill be used for automatic transfer to IXM devices. Refer to separate Feature Description Documents (FDDs) accessible from Invixium Customer Portal for details on Employee/Device/Sync Groups.



Note: Multiple Cards - SSP can have multiple cards per user, and IXM WEB supports a maximum of 10 cards per user. IXM Link selects the available valid cards.

As SiPort does not maintain the status of the card, IXM Web will consider the card status as "Active".

The API will fetch all the cardholders with cards based on the Last Modified Date and Time.



2. Compatibility

Invixium Readers

TITAN	TFACE	TOUCH2	SENSE2	MERGE2	MYCRO
All models					

Software Requirements

Application	Version
SIEMENS SiPort	3.1.4.286
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 2016+
	Supported but not recommended: (Legacy)
	SQL Server 2014 Express Edition (Default Installation)
Internet Information Services (IIS)	Microsoft® Internet Information Services version 10.0
Web Browser	Google Chrome
	Mozilla Firefox
	Microsoft Edge (Internet Explorer not recommended)

Other Requirements

Server	2.4 GHz Intel Pentium or higher
RAM	8 GB or higher
Networking	10/100Mbps Ethernet connections



Note: Server requirements mentioned are ideal for 10-15 devices registered with 500 employees or fewer. For large enterprise installation server requirements, contact support@invixium.com.

Compatibility Matrix for IXM WEB & SiPort Integration



IXM WEB version	SiPort version	Compatible
IXM WEB 2.3.2.0	v3.1.4.286	Yes
IXM WEB 3.0.36.0	v3.1.4.286	Yes

Table 1: Compatibility Matrix for IXM WEB & SIEMENS Integration



3. Checklist

Item List	Interface
SiPort API	SIEMENS
IXM WEB Activation ID	Invixium
SQL Instance on SQL Server 2016+	Invixium
Install IXM WEB Application	Invixium
IXM WEB and IXM Link Activation	Invixium
Configure IXM Link to SIEMENS SiPort	Invixium
Configure Invixium Reader	Invixium
Face or Finger Enrollment	Invixium



4. Task List Summary

Task	IXM WEB Application Task List using IXM WEB	SIEMENS SiPort Task List using SSP
1	Activate IXM WEB and IXM Link for SSP	Create Cardholder. Assign Card and Access Profile to cardholder
2	Configure IXM Link for SSP	Define Reader and Door in SSP for integration with SiPort Controller on OSDP
3	Register IXM Devices and configure settings as per the requirement	Monitor Events
4	Configure Weigand or OSDP settings in the device for integration with SIEMENS SiPort	
5	Assign a specific Device Group to the device	

Table 2: Task List Summary



5. Prerequisites for SSP and IXM WEB Integration

SiPort API Configuration

SIEMENS has to deploy and configure the SiPort API package at the customer end. The integration between SSP and IXM WEB will be successful only once the API is up and running.

To access SiPort API, IXM Web is required to pass basic authentication which includes username and password. The data will be retrieved only after successful authentication.

On accessing the SiPort API, cardholder information will be fetched by using the CardholderWithChild API available on the following path:

https://{SIPORT-Server}:{port}/API/Cardholderwithchild



6. Prerequisites for Installing Invixium IXM WEB Software

Acquiring IXM WEB Activation Key

Procedure

STEP 1

Complete the online form to receive instructions on how to download IXM WEB: https://www.invixium.com/download-ixm-web/.

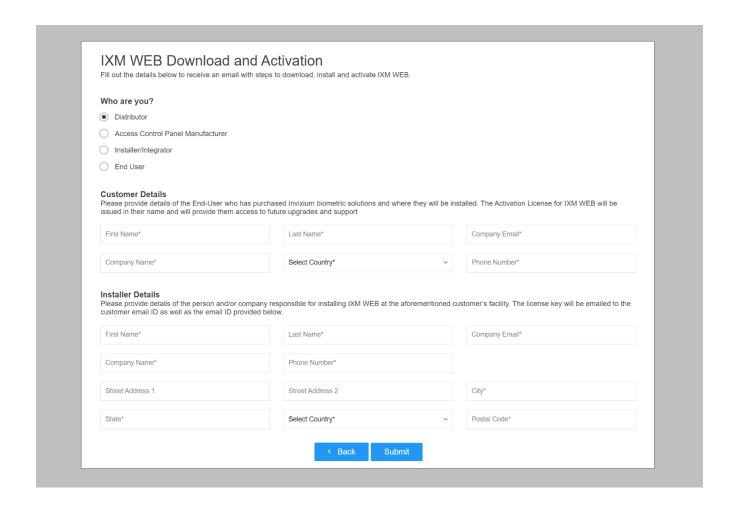


Figure 1: IXM WEB Online Request Form





After submitting the completed form, an email will be sent with instructions from support@invixium.com to the email ID specified in the form.

Please ensure to check the spam or junk folder.

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

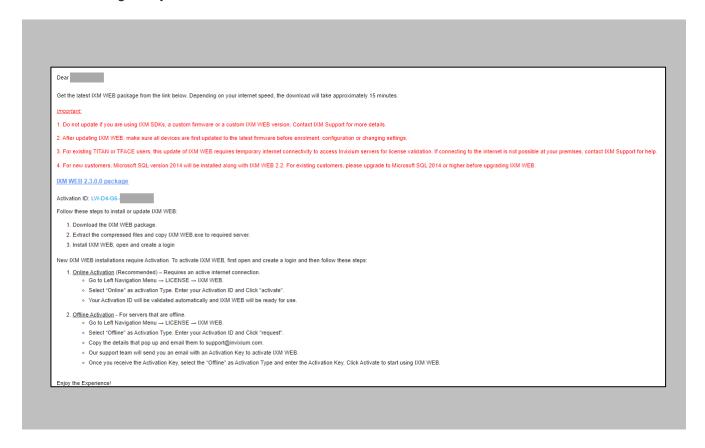


Figure 2: Sample Email After Submitting Online Request Form



Setting Up SQL instance

ů

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

Procedure

STEP 1

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

STEP 2

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

STEP 3

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

STEP 4

Install SQL Management Studio on the server.



Log into the new instance and create a new user.

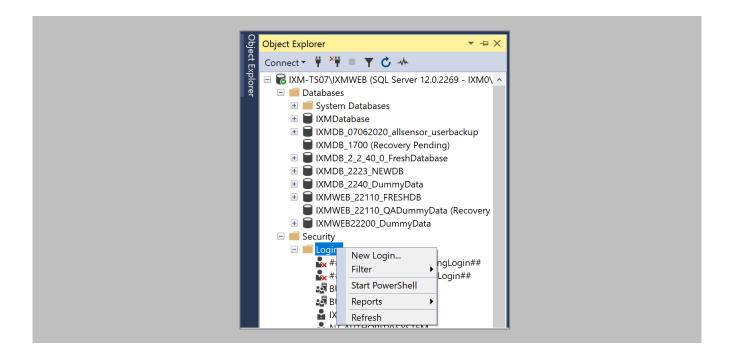


Figure 3: SQL New Login

STEP 6

Select SQL Server authentication.

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



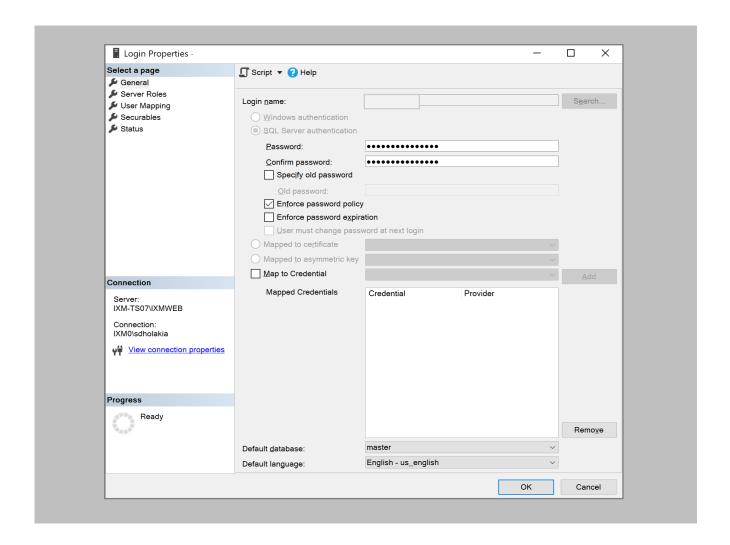


Figure 4: SQL Login Properties



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

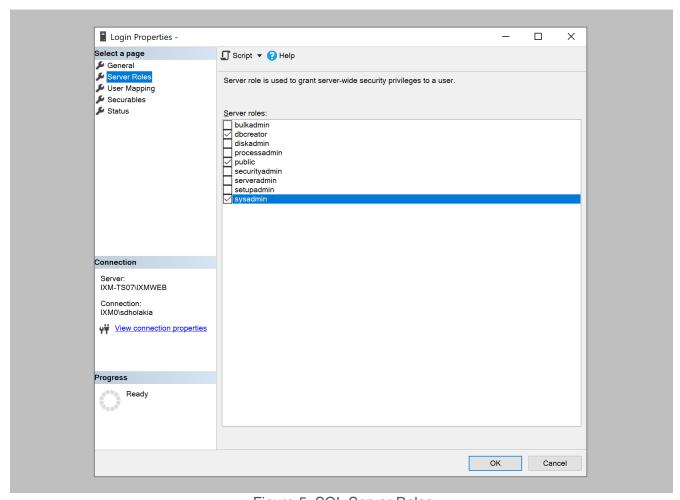


Figure 5: SQL Server Roles

RESULT

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





Minor Checklist and Considerations

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

Other Minor Checklist	
	Windows 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
SSP API Port	1255

Table 4: Port Information



7. Installing IXM WEB

Software Install

Procedure

STEP 1

Run the IXM WEB installer (Run as administrator).

Select Advanced.



Figure 6: IXM WEB Installer



Deselect Install SQL Server and select Install.

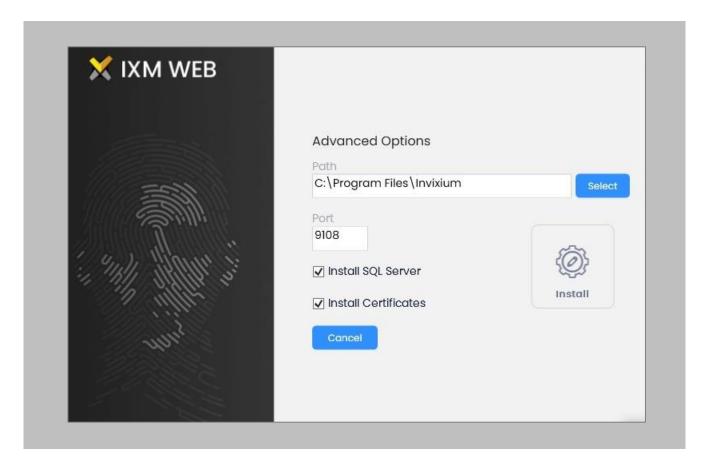


Figure 7: Advanced Options in IXM WEB Installer



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

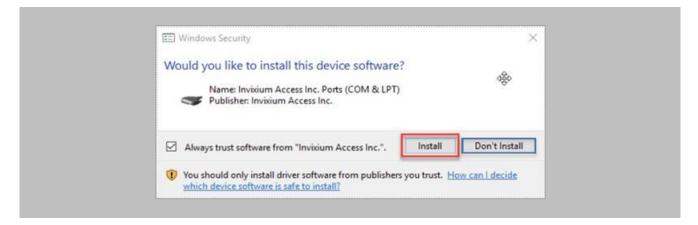


Figure 8: Invixium Fingerprint Driver Installation Message



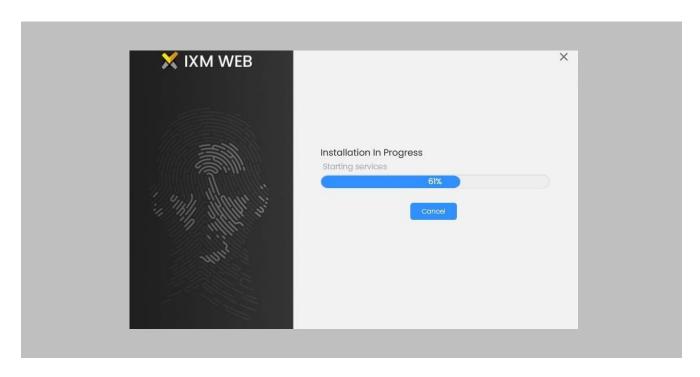


Figure 9: IXM WEB Installation Progress



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

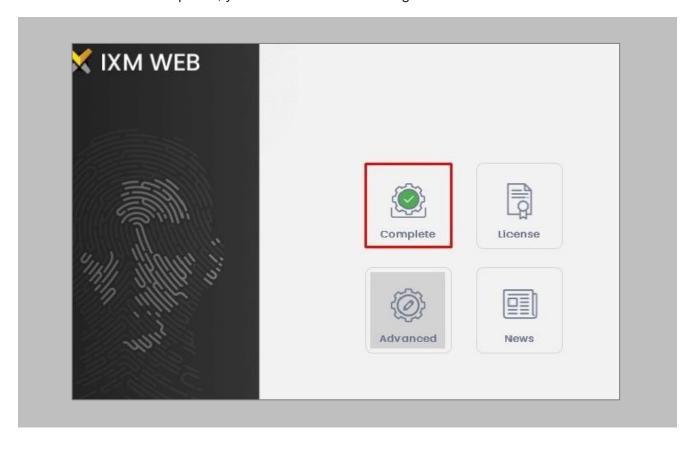


Figure 10: IXM WEB Installation Completed

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



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



Figure 11: IXM WEB Icon - Desktop Shortcut

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

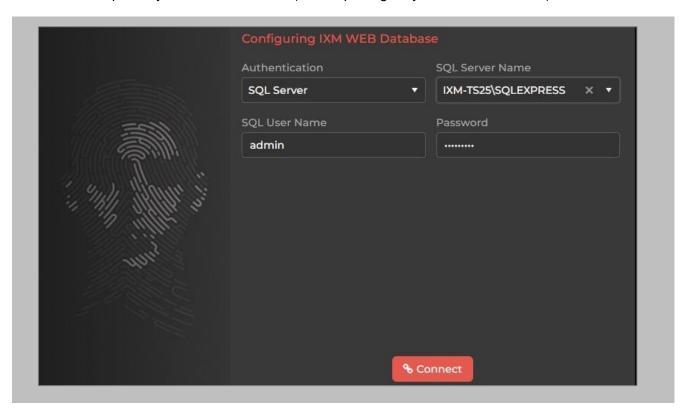


Figure 12: IXM WEB Database Configuration





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

STEP 7

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

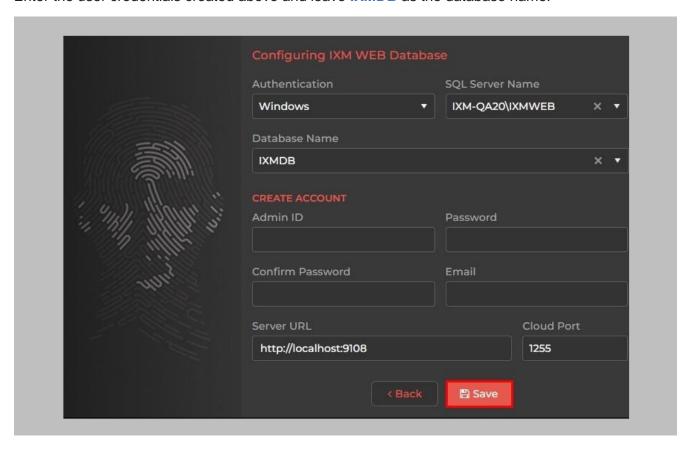


Figure 13: IXM WEB Administrator User Configuration

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



Create a **user account** (this is different from the identity used to connect to the SQL instance at the top of the page). The status bar will indicate the strength of the chosen password.

STEP 9

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

For example:

If the IP address of the server is 192.168.1.100, then specify the Server URL as the following:

http://192.168.1.100:9108

STEP 10

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



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

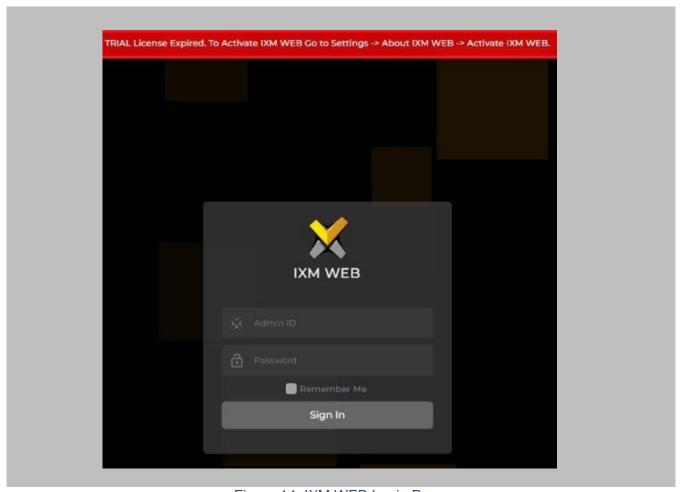


Figure 14: IXM WEB Login Page

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



8. Configuring Email Settings using IXM WEB

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

Email Setting Configuration

Procedure

STEP 1

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

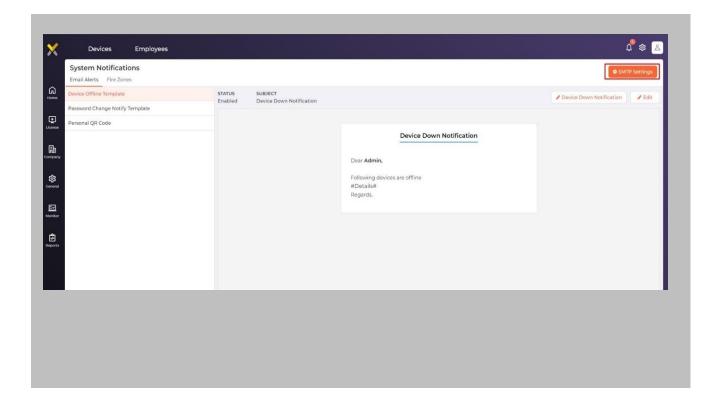




Figure 15: Configure Email

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

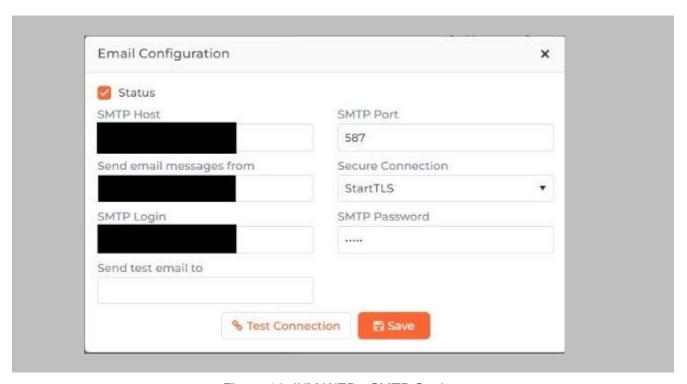


Figure 16: IXM WEB - SMTP Settings

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.



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

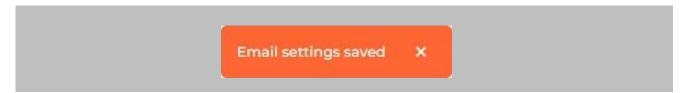


Figure 17: IXM WEB - Save Email Settings

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.

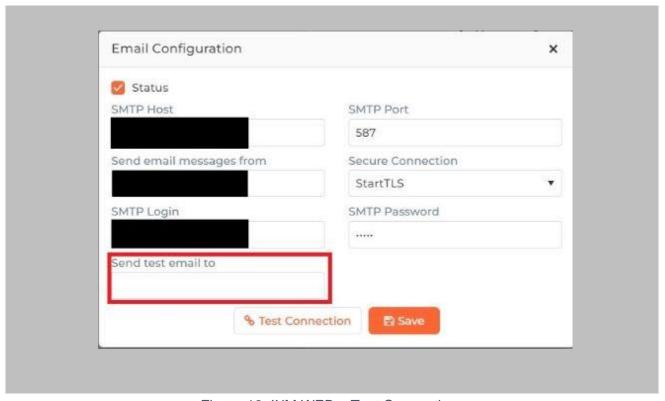


Figure 18: IXM WEB – Test Connection



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

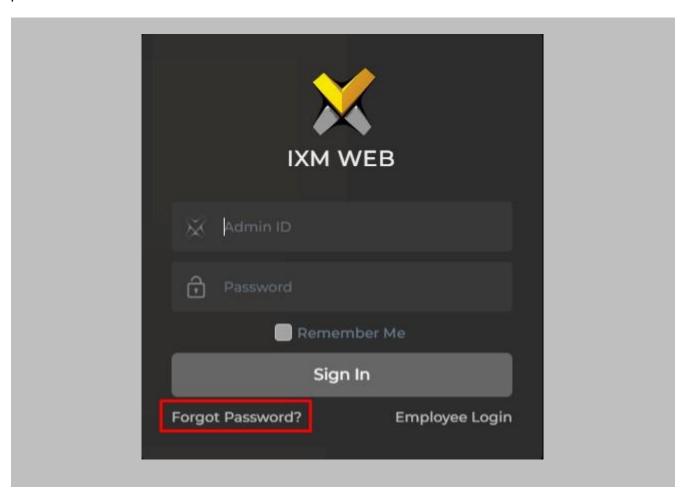


Figure 19: IXM WEB - Forgot Password



9. Software and Module Activation

IXM WEB Activation

Procedure

STEP 1

Log into IXM WEB.

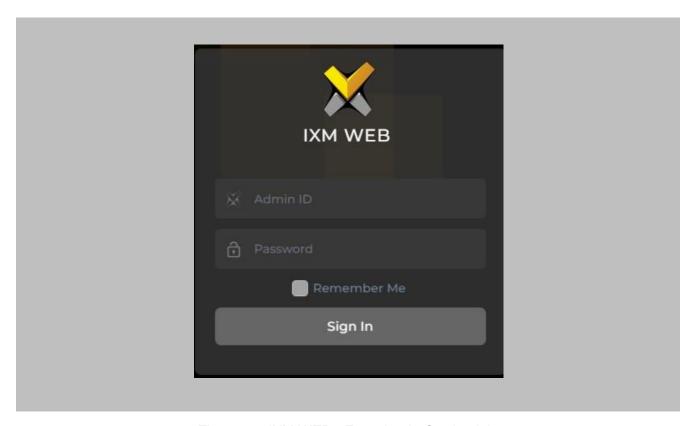


Figure 20: IXM WEB - Enter Login Credentials

STEP 2

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



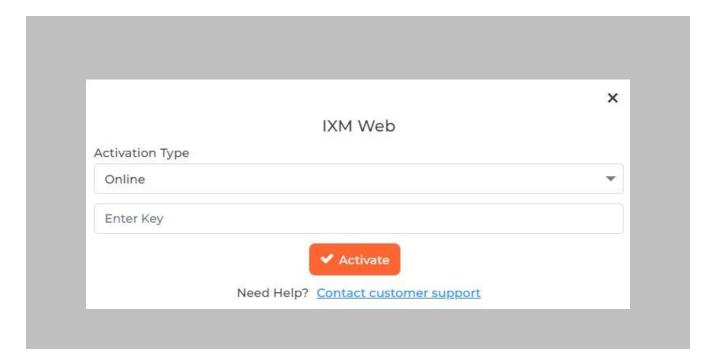


Figure 21: IXM WEB - License Setup

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.

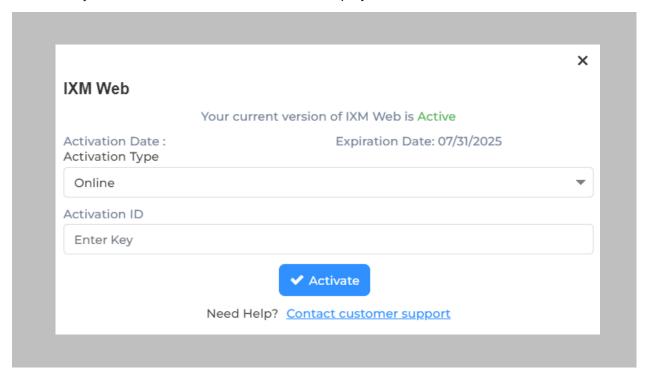


Figure 22: IXM WEB - Online Activation



SiPort Module Activation

The option to activate a SIEMENS SiPort License is available under the License tab.

STEP 1

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

Request a **License** by sending email to support@invixium.com. Paste the copied machine key in the email.

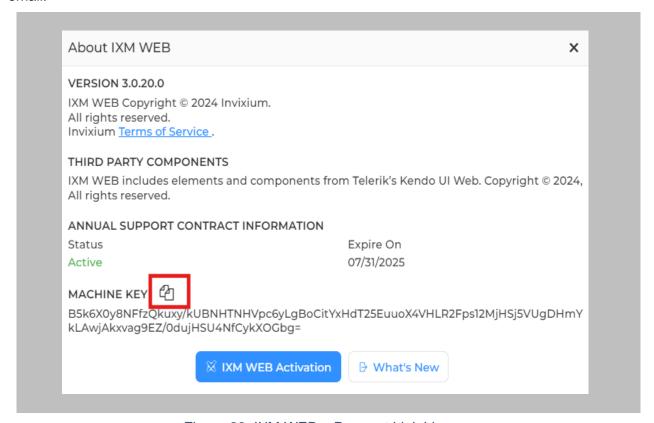


Figure 23: IXM WEB - Request Link License



You will receive an email from Invixium Support containing a license key for the SIEMENS SiPort Activation.

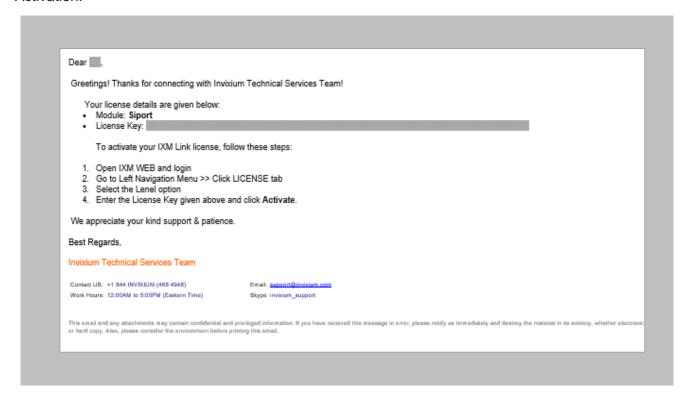


Figure 24: SIEMENS License Key Email



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

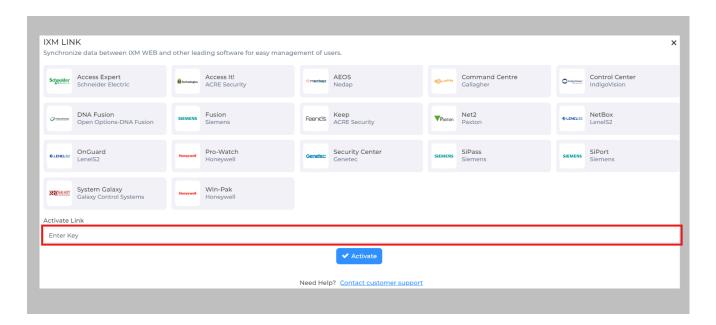


Figure 25: IXM WEB - Activate SIEMENS Link License

RESULT

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



10. Configuring IXM Link for SIEMENS

Procedure

STEP 1

From the Link → click the SiPort (SIEMENS) icon.

Toggle the **Status** switch to enable.

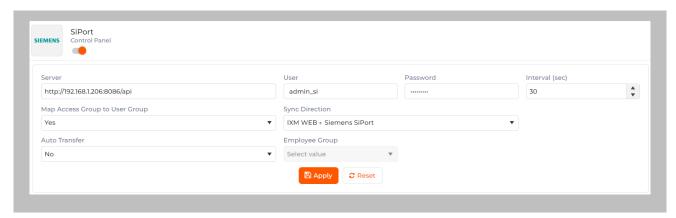


Figure 26: IXM WEB - Enable SIEMENS Link Module

Server:

Enter the Server URL. For example: http://{SIPORT-Server IP or hostname}:{port}/API/

User:

Enter the name of the authorized user to connect to the API of SIEMENS SiPort.

Password:

Enter the Password of the authorized user to connect to the API of SIEMENS SiPort.

Interval (Sec):

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

Map Access Group to User Group:

Select "Yes" or "No" from the dropdown list.





Yes: IXM WEB User Group, Device Group, and Sync Group will be created automatically with one-on-one mapping of User Group and Device Group.

As per the SIEMENS Access Profile selected by the cardholder, that cardholder will be assigned to the IXM WEB User Group. It will be assigned to the Invixium devices mapped with that particular User Group.

No: Cardholders won't be assigned to any IXM WEB user group.

Sync Direction:

Click on the field to select the direction of data transfer. Data can be transferred one way only.

Select one-way sync direction IXM WEB ß SIEMENS SiPort to import cardholders from SIEMENS to IXM WEB. SIEMENS SiPort is considered as the master data in this case and any changes made in IXM WEB data will be overwritten during transfer.

Auto Transfer:

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

Click on either 'Yes' or 'No'.

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

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

Employee Group:

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

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



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

In case of an unsuccessful connection, please refer to the <u>Troubleshooting</u> section.

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



Figure 27: IXM WEB - Sync Activities

Numbers

The first two colums display the number of records added and updated in SIEMENS 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 2

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".



The **Sync All** feature allows a resynchronization of the database from SSP to IXM WEB. This will reimport missing cardholders or updated cardholders from SSP to IXM WEB.

No action will be taken on Employees that have been deleted in SiPort.

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

RESULT

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



11. Create System User(s) for Biometric Enrollment

Creating System User(s) for Biometric Enrollment

Procedure

STEP 1

Log into IXM WEB.

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

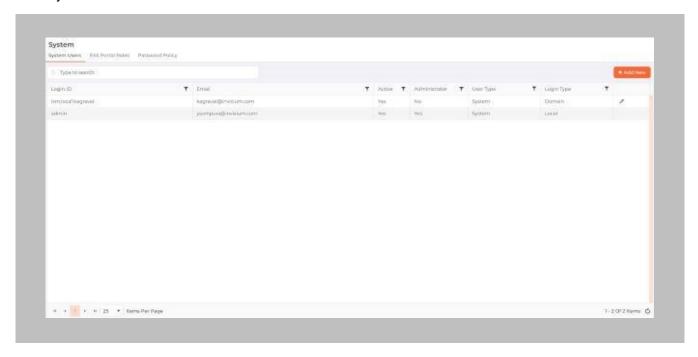


Figure 28: IXM WEB - Create System User



Click Add New.

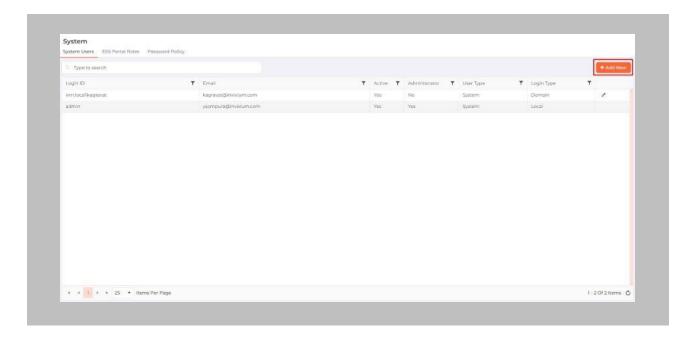


Figure 29: IXM WEB - Add New System User

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.

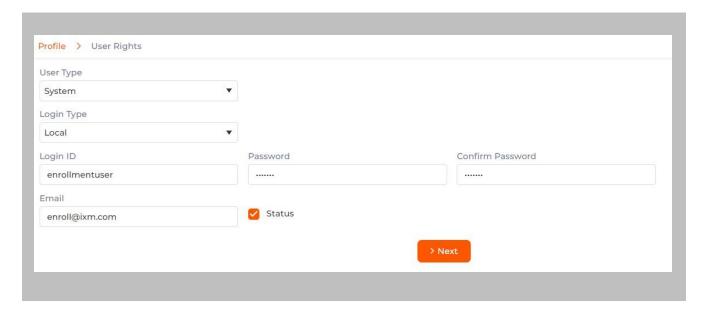


Figure 30: IXM WEB - New System User



Add an email address.

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

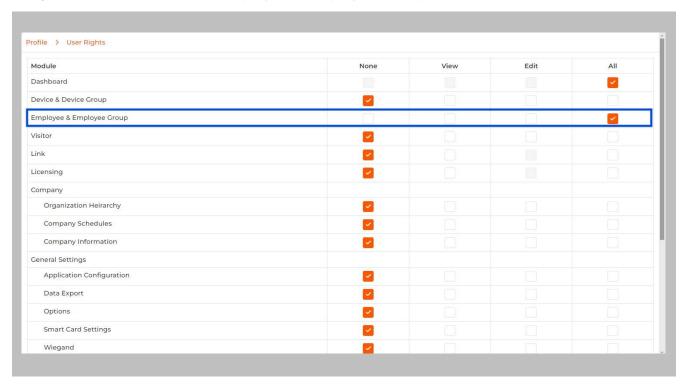


Figure 31: Employee and Employee Group Rights

STEP 5

Click Save.



Figure 32: IXM WEB - Save System User



12. Add and Configure Invixium Readers

Adding an Invixium Reader in IXM WEB

Procedure

STEP 1

Click the **Devices** tab.

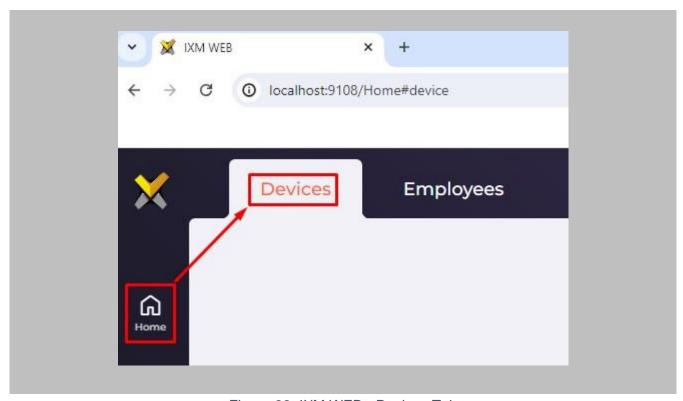


Figure 33: IXM WEB - Devices Tab



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.

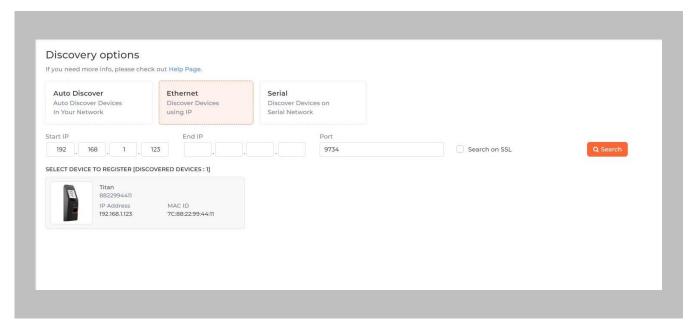


Figure 34: IXM WEB - Search Device Using IP Address



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

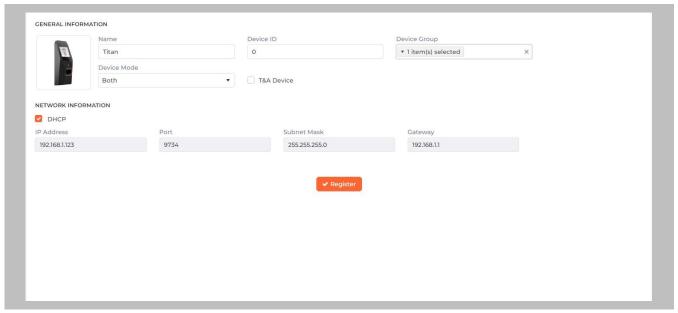


Figure 35: IXM WEB - Register Device

STEP 4

Name the device exactly as the name of the door it will be used for.

Device Mode: select accordingly.

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



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

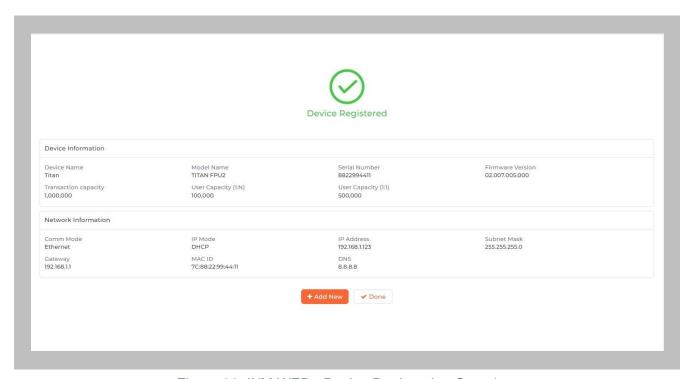


Figure 36: IXM WEB - Device Registration Complete



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).

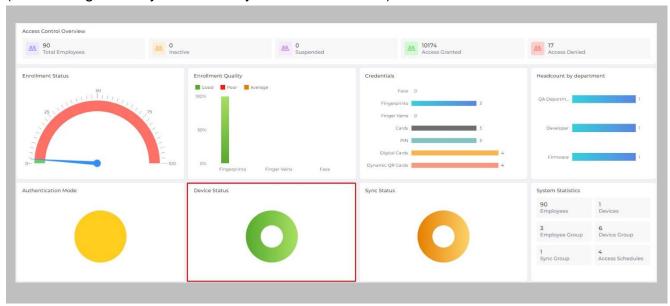


Figure 37: IXM WEB - Dashboard, Device Status



13. 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 38: IXM WEB - Assign Device Group



Configuring Wiegand Format to Assign Invixium Readers

ů

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**.

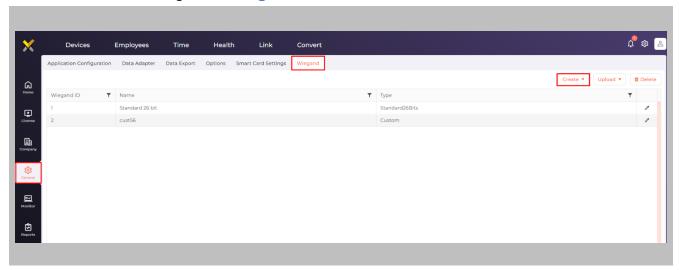


Figure 39: IXM WEB - Create Wiegand Format



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

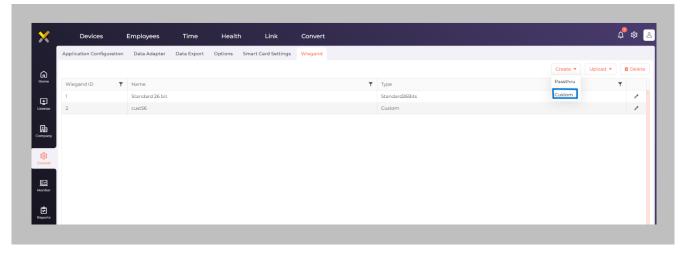


Figure 40: IXM WEB - Create Custom Wiegand Format

STEP 3

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



Figure 41: IXM WEB - Custom Wiegand Format



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



Figure 42: IXM WEB – Custom Wiegand Format Created

STEP 5

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

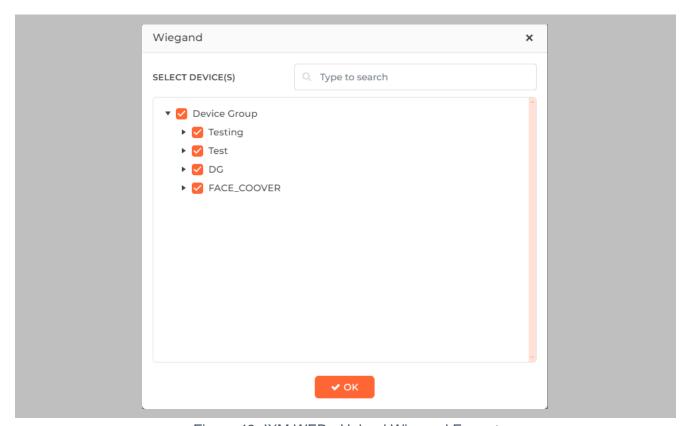


Figure 43: IXM WEB - Upload Wiegand Format



Assign Wiegand to Invixium Readers

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

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

STEP 1

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

STEP 2

Navigate to the Access Control tab.

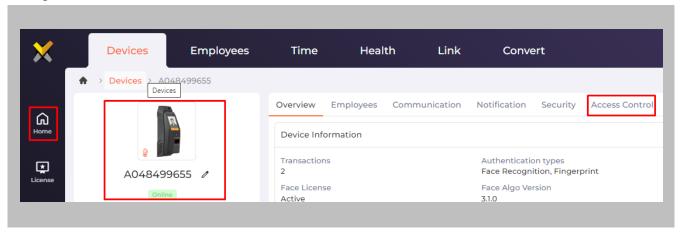


Figure 44: IXM WEB - Navigate to Access Control Tab



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

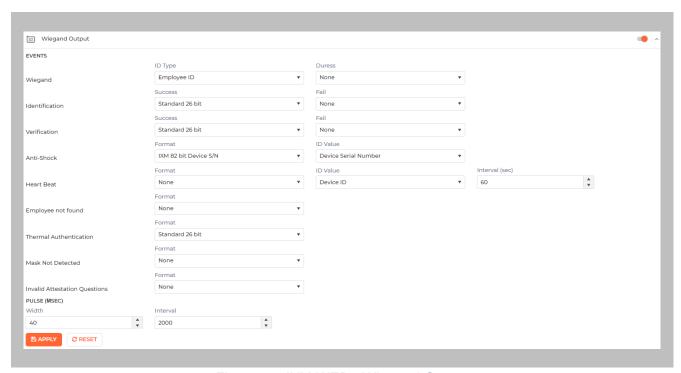


Figure 45: IXM WEB - Wiegand Output

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 SiPort, select either Default Card or Actual Card.

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



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

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



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

STEP 4

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

STEP 5

Click Apply.



Figure 46: 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 SiPort controller.
- To make this Wiegand output work on SiPort, you will need to make sure the Wiegand format is available in SiPort for use on the controllers talking to the Invixium reader (by Wiegand or OSDP).





Configuring Panel Feedback with SIEMENS

Procedure

STEP 1

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

STEP 2

Connect the LED of the SIEMENS 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**.

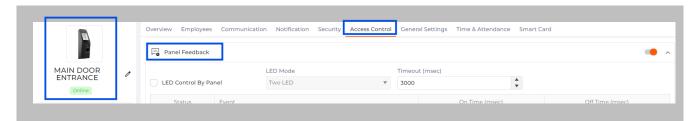


Figure 47: IXM WEB - Panel Feedback



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**.

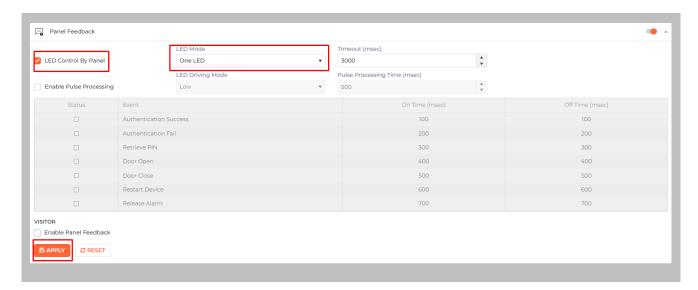


Figure 48: IXM WEB - Configuring Panel Feedback in IXM WEB

STEP 5

Click Apply.



Figure 49: IXM WEB - Save Panel Feedback



Configuring Thermal Settings

(i)

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

Procedure

STEP 1

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

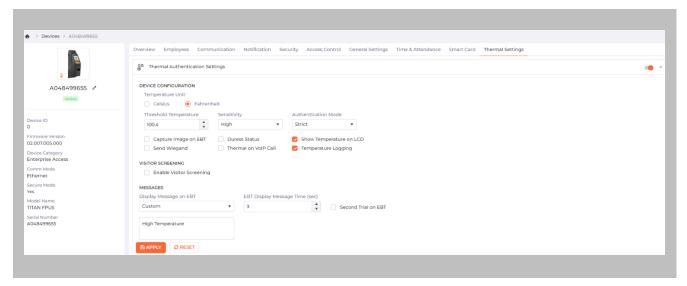


Figure 50: IXM WEB - Thermal Settings

STEP 2

The list of settings along with their functions are:

- **Temperature Unit:** IXM WEB supports Celsius and Fahrenheit temperature units. By default, the selected option will be Fahrenheit.
- Threshold Temperature: Users can set a threshold temperature. Elevated Body Temperature (EBT) workflows will trigger when any user whose temperature is above the threshold value. The default threshold temperature is 100.4 degrees Fahrenheit.



- Sensitivity: Users can set Thermal Sensitivity to low or high.
- Authentication Mode: The user will have two options for the Mode of authentication Soft / Strict, this mode of authentication is used to control the access of the user if fever is detected. The default mode of authentication is Strict.
 - o **Soft:** Access will be granted to the End-user even after the fever is detected.
 - Strict: Access will be denied if the fever is detected.
- **Send Wiegand:** This setting will be visible only if the user selects the "Strict" Authentication Mode. Enabling this setting will generate Wiegand whenever "High Face Temperature" is detected in the authentication process.
- Capture Image on EBT: Enable this setting to capture the image of the user if EBT is detected. By default, this setting will remain disabled. The same image will be used for sending email notifications from IXM WEB.
- Duress Status: Enabling this setting will allow access to the user even after detecting EBT if
 the user authenticates using their pre-programmed duress finger. The default setting is
 disabled.
- **Show Temperature on LCD:** By enabling this setting, TITAN will display the screened temperature upon authentication. By default, this setting is disabled.
- **Display Message on EBT:** Users can set a message to display after detecting EBT. Users can set a message up to a maximum of 50 characters.
- EBT Display Message Time (sec): Users can configure the length of time that the EBT message stays on the screen. The default time is 3 seconds.
- **Second Trial on EBT:** By enabling this setting, users will get a notification to retry after EBT detection. If this setting is enabled, Display Message for Second Trial, Second Trial Wait Time after EBT (mins), and Display Message Time After Second Trial (sec) fields will be visible.
- **Display Message for Second Trial:** Users can set a message to display after the second trial if EBT is detected. This message can be a maximum of 50 characters.



- **Second Trial Display Message Time (sec):** Users can configure the length of time that the second trial message stays on the screen. The default time is 3 seconds.
- **Enable Visitor Screening:** Enable this setting to start screening temperatures for visitors. By default, this field remains disabled.
- **Visitor Screening Message:** Users can set a message that will be displayed when a visitor is showing their face. Maximum 50 characters allowed.
- Visitor Screening Message on EBT: Users can set a message that will be displayed when the visitor has an EBT. Maximum 50 characters allowed.
- Visitor Message Display Time (sec): Users can configure the length of time that the visitor screening message stays on the screen. The default time is 3 seconds.
- Thermal on VoIP Call: Enable this setting to start screening temperatures for a user when a VoIP call is going on. By default, this field remains disabled.
- **Temperature Logging:** This setting keeps logging detected temperature in the Transaction Log. By default, this field remains enabled. Users can disable this feature using IXM WEB only. Enable/Disable this setting is not available in LCD.

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

Thermal Authentication settings saved X

Figure 51: IXM WEB - Save Thermal Settings



Thermal Calibration

STEP 1

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

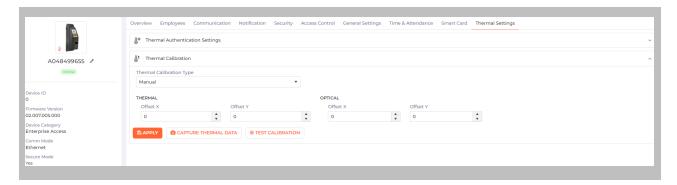


Figure 52: IXM WEB - Thermal Calibration Settings

STEP 2

The settings along with their functions are:

- Thermal Calibration Type:
 - Manual
 - o Face
 - o Black Body

Invixium supports only Manual Thermal Calibration and does not recommend the user to select any other option.

- Offset X (Thermal Section): Users can set the value for the offset X coordinate of the TIR camera.
- Offset Y (Thermal Section): Users can set the value for the offset Y coordinate of the TIR camera.



- Offset X (Optical Section): Users can set the value for the offset X coordinate of the TITAN camera.
- Offset Y (Optical Section): Users can set the value for the offset Y coordinate of the TITAN camera.

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

Thermal Calibration settings saved X

Figure 53: IXM WEB - Save Thermal Calibration Settings

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

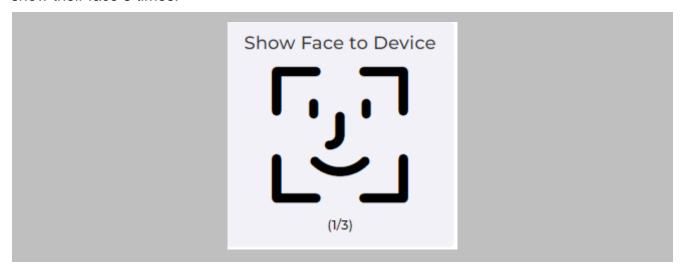


Figure 54: IXM WEB - Capture Thermal Data



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

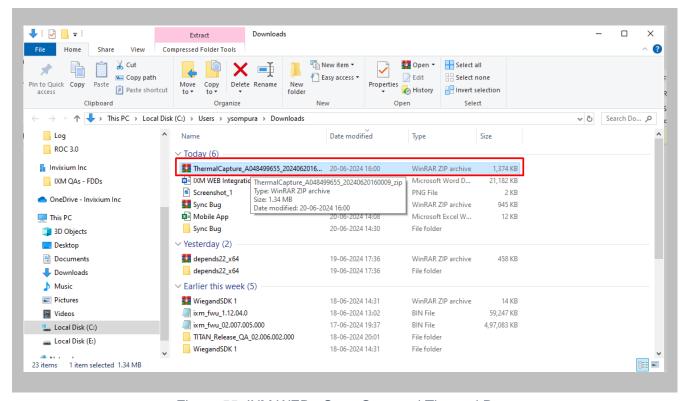


Figure 55: IXM WEB - Save Captured Thermal Data

STEP 5

Click **Save** to store the zip file, then send this file to support@invixium.com. Invixium's Technical Services team will process this file and respond to the user with calibrated values for "X" & "Y" coordinates for the TIR camera and TITAN camera.

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

Test Calibration Options





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

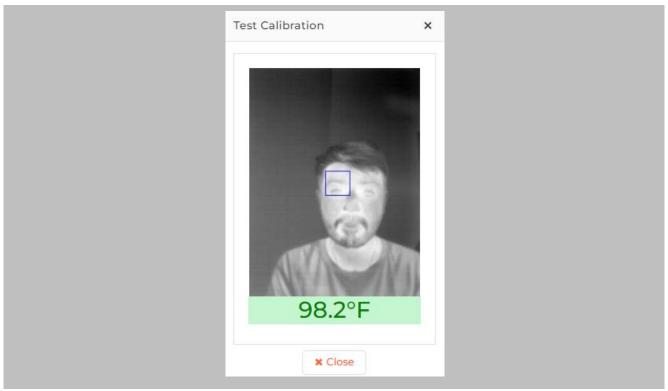


Figure 56: IXM WEB - Test Thermal Calibration

 $\hat{\mathbb{I}}$ Note: Square box position should be in the center and cover the tear duct area (Eye Inner Canthus).



Change Temperature Unit Settings

STEP 1

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

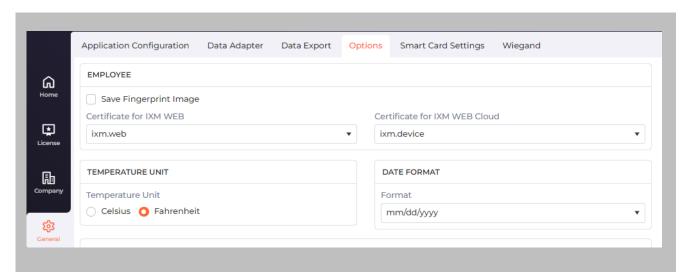


Figure 57: IXM WEB - Option to Change Temperature Unit



Select required temperature unit. Click Save.

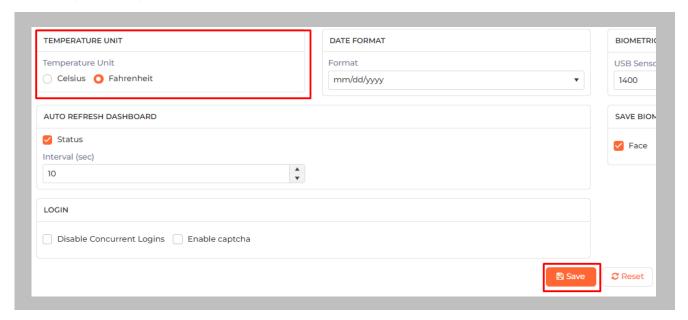


Figure 58: IXM WEB - Save Temperature Unit Setting



Configuring Mask Authentication Settings

STEP 1

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

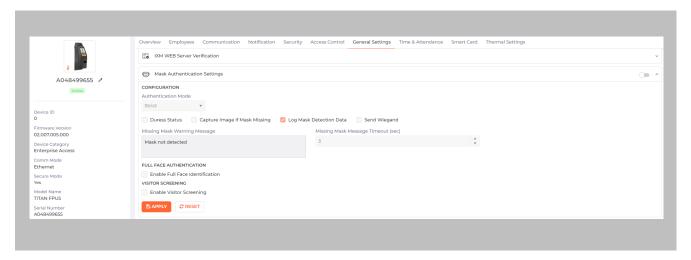


Figure 59: IXM WEB - Mask Authentication Settings

STEP 2

The list of settings is:

- **Authentication Mode:** There are two options for the mode of authentication used to control the access workflow if a mask is not detected. The default mode of authentication is strict.
 - Soft: Access will be granted to the user even if a mask is not detected.
 - Strict: Access will be denied if a mask is not detected.



- Duress Status: Enabling this setting would allow access to the user if a mask was not detected if the user authenticates using their pre-programmed duress finger. The default setting is disabled.
- Capture Image if Mask Missing: Enable this setting to capture an image of the user if a mask
 is not detected. By default, this setting is disabled. The same image will be used for sending
 email notifications from IXM WEB.
- Log Mask Detection Data: This setting tracks mask detection in the transaction log. By
 default, this setting is enabled. You can disable this feature using IXM WEB only, not on the
 device's LCD.
- **Send Wiegand:** This setting will be visible only in "Strict" authentication mode. Enabling this setting will generate Wiegand whenever a mask is not detected in the authentication process.
- Missing Mask Warning Message: Set a message to display after a mask is not detected. The
 message can be up to 50 characters.
- Missing Mask Warning Message Timeout (sec): Configure the length of time that the mask is not detected message stays on the screen. The default time is 3 seconds.
- Enable Full Face Identification: Invixium Periocular algorithms can achieve accurate identification using only the eye and eyebrow regions of the face. Full face identification is used to get more accuracy in authentication and capture a user's face without a mask in the image log. By default, this setting is disabled.
- Remove Mask Display Message: Set a message to display after a mask is detected when Full Face Identification is enabled. Messages can be up to 50 characters.
- Remove Mask Display Message Time (sec): Configure the length of time that the mask is detected message stays on the screen. The default time is 3 seconds.
- **Enable Visitor Screening:** Enable this setting to start screening visitors for masks. By default, this field is **disabled**.
- **Visitor Screening Message:** Set a message that will be displayed when a visitor is showing their face. Messages can be up to 50 characters.



- **Visitor Mask Missing Warning Message:** Set a message that will be displayed when a visitor is screened without a mask. Messages can be up to 50 characters.
- Visitor Message Display Time(sec): Configure the length of time that the visitor screening message stays on the screen. The default time is 3 seconds.

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

Mask Authentication settings saved X

Figure 60: IXM WEB - Save Mask Settings



14. Enrollment Best Practices

Fingerprint Enrollment Best Practices

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

Avoid Poor Fingerprint Conditions

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

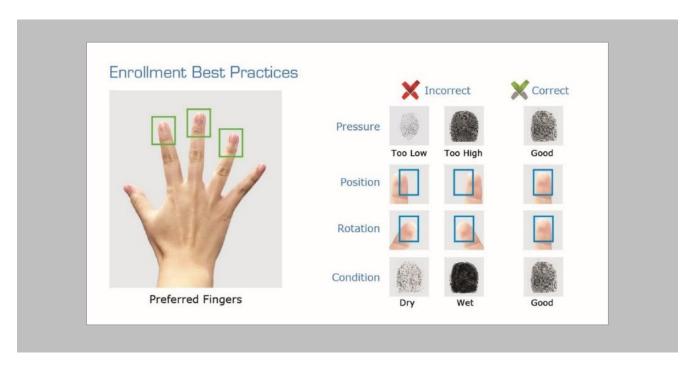


Figure 61: Fingerprint Enrollment Best Practices



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 62: 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.

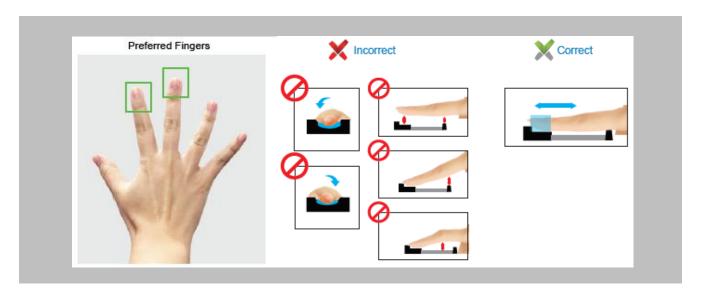


Figure 63: Finger Vein Enrollment Best Practices



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.

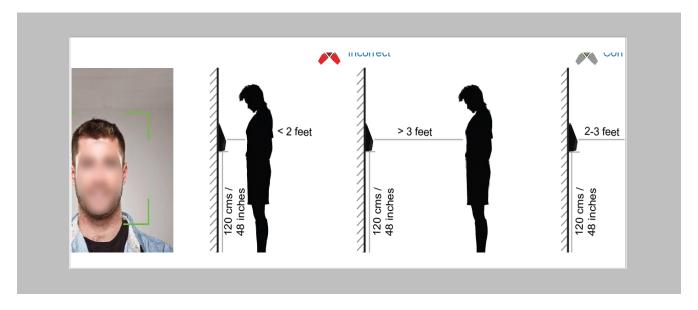


Figure 64: Face Enrollment Best Practices



15. Appendix

Installing Invixium IXM WEB with Default Installation using SQL Server 2014



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

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

Procedure

STEP 1

Run the installer.exe



Figure 65: Install IXM WEB





Note: Installs SQL 2014 Express.

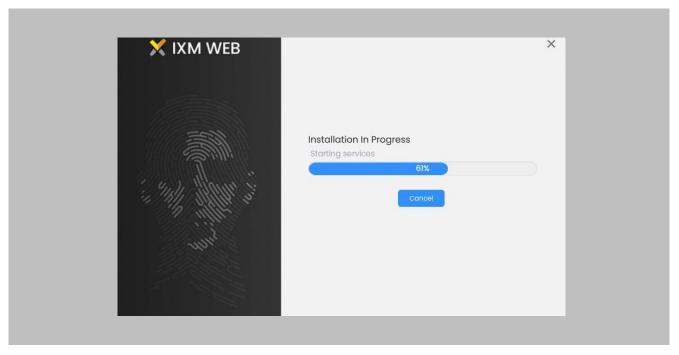


Figure 66: Loading SQL Express & Installation Progress

STEP 2

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

- Bonjour
- Invixium Device Discovery
- IXM WEB



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

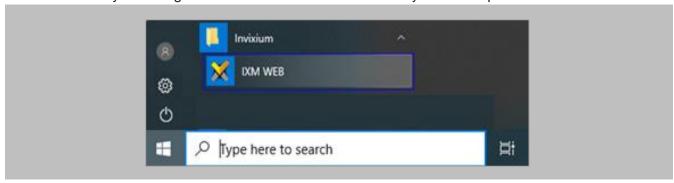


Figure 67: IXM WEB - Shortcut Icon on Desktop

STEP 4

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



Figure 68: IXM WEB - Configuring IXM WEB Database





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

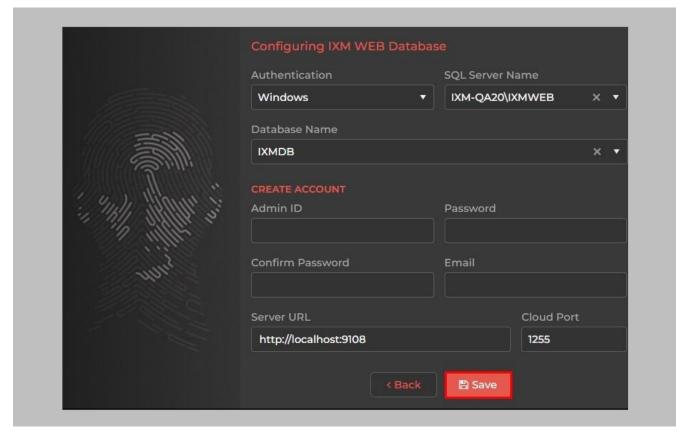


Figure 69: IXM WEB - Select Database Name

STEP 6

Create a **user account** (this is different from the identity used to connect to the SQL instance at the top of the page). The status bar will indicate the strength of the chosen password.

STEP 7

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

For example:





If the IP address of the server is 192.168.1.100, then specify the Server URL as the following:

http://192.168.1.100:9108

STEP 8

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



Pushing Configuration to Multiple 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 70: IXM WEB - Broadcast Option

STEP 2

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

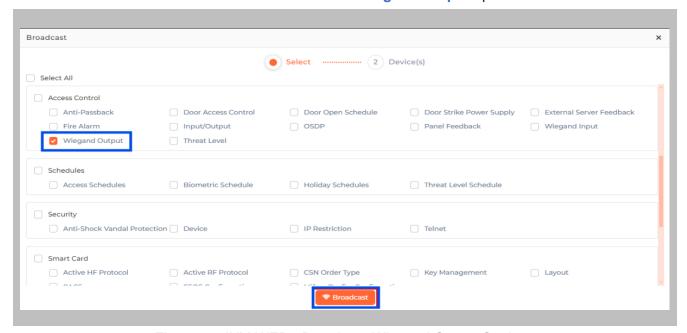


Figure 71: IXM WEB - Broadcast Wiegand Output Settings





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.

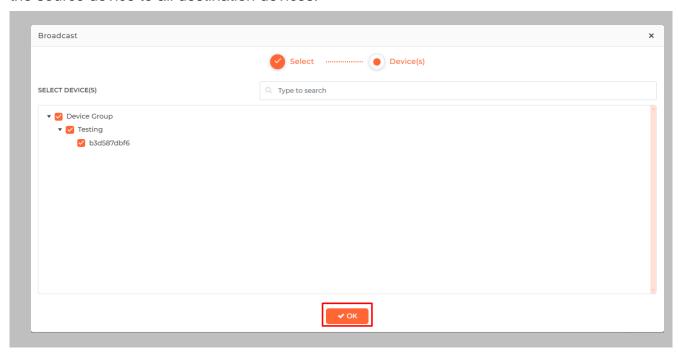


Figure 72: IXM WEB - Broadcast to Devices



Configuring for OSDP Connection

STEP 1

From the **Devices** tab. Select the required **Device** and navigate to **Access Control**. Click **OSDP**.

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

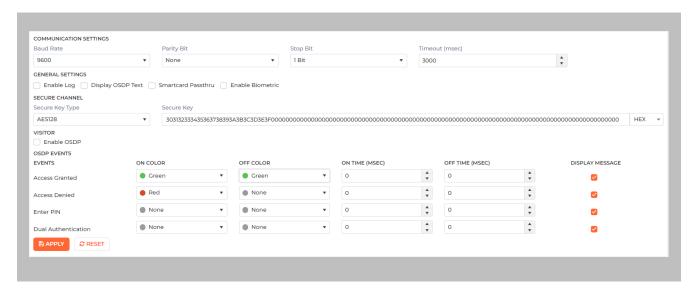


Figure 73: IXM WEB - OSDP Settings



STEP 2
Provide values for the configuration settings below:

Baud Rate	The baud rate of the serial communication. The value must be the same as the Access Control Panel's value.
Parity Bit	The parity bit of the serial communication. The value must be the same as the Access Control Panel's value.
Stop Bit	The stop bit of the serial communication. The value must be the same as the Access Control Panel's value.
Enable Log	This logs OSDP events for support and debugging purposes. Invixium recommends disabling this feature unless needed.
SmartCard Passthru	When presenting a smart card, the device passes the smart card CSN (Card Serial Number) to the Access Control Panel without taking any other action.
Enable Biometric	Enables biometric template verification.
Secure Channel	The secure key is provided by your Access Control Panel most of the time. However, provisions for manual entry can be added as TEXT or HEX.
Event	The OSDP static events for panel feedback and capture pin are: Access Granted Access Denied Enter PIN 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: • The Device will request the credentials of the second



	user after the first user is authenticated successfully. Card numbers for both, the first and the second user will be transferred to the Access Control Panel. Two events, one for the first user and the other for the second user will be logged into the Access Control Panel.
On Color/Off Color	The LED color configuration is 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 5: IXM WEB - OSDP Configuration Options

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

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

Table 6: IXM WEB - OSDP Text Options



Click **Apply** to save the settings.

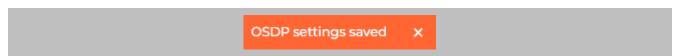


Figure 74: IXM WEB - Save OSDP Settings

STEP 4

Open the edit option on the reader and note the **Device ID**. This will be the address used in the configuration of the reader in the SiPort.

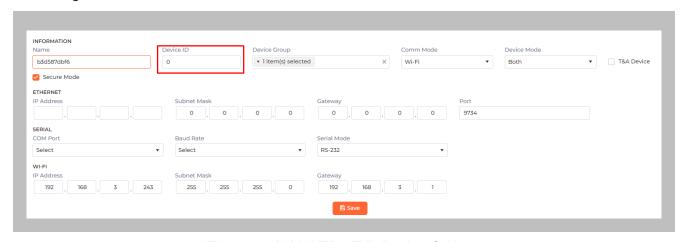


Figure 75: IXM WEB - Edit Device Options

STEP 5

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



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

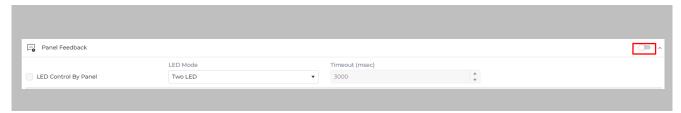


Figure 76: IXM WEB - Disable Panel Feedback



Configuring MIFARE DESFire Custom Cards

STEP 1

From **Home**, click the **Devices** tab. Select the required **Device** and navigate to **Smart Card**. Click **MIFARE DESFire Configuration**.

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



Figure 77: IXM WEB - MIFARE DESFire Configuration

STEP 2

Provide **values** for the configuration settings below:

Application ID	The application ID of the SIEMENS cards.
File ID	The file ID of the SIEMENS cards.
Data Length	Enter the data length of SIEMENS cards.
Data Offset	Enter data offset of SIEMENS cards.
Master Key	Enter the Master key of SIEMENS cards.



Master Key Encryption	Select Master Key Encryption from the dropdown as per requirement. Options are: • None • 2K 3DES • 3K 3DES • AES 128
Application Key	Enter the Application key of SIEMENS cards.
Application Key Encryption	Select Application Key Encryption from the dropdown as per requirement. Options are: • None • 2K 3DES • 3K 3DES • AES 128
Application Key Number	Enter the Application key Number of SIEMENS cards.
Data Communication Mode	Select Data Communication Mode from the dropdown as per requirement. Options are: • Plain • MAC • Enciphered
Mode	Select the Mode from the dropdown as per requirement. Options are:
Wiegand Mode	Enable Wiegand mode if data is encoded in Wiegand format.



Read ASCII	Enable Read ASCII so that the Device can read the ASCII data from the Smart Card as per the configuration.
Send ASCII	Enable Send ASCII so that the Device can send the ASCII raw data.

Table 7: IXM WEB – MIFARE DESFire Configuration Options

The below image shows the configuration for a sample **SIEMENS Card**.

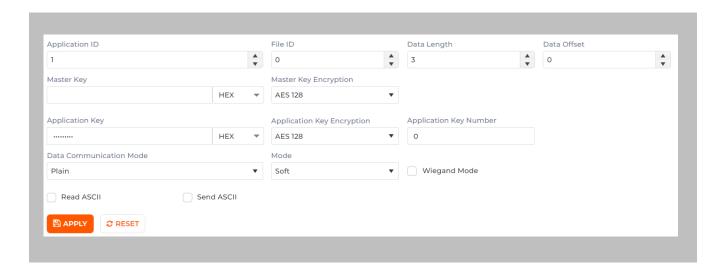


Figure 78: IXM WEB - MIFARE DESFire Sample Configuration



Wiring and Termination

Procedure

Earth Ground

For protection against ESD, Invixium recommends the use of a ground connection between each Invixium device to high-quality earth ground on site.

STEP 1

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

STEP 2

Connect the **open end** of the earth ground wire provided in the install kit box to the **building earth** ground.

STEP 3

Screw the lug end of the earth ground.

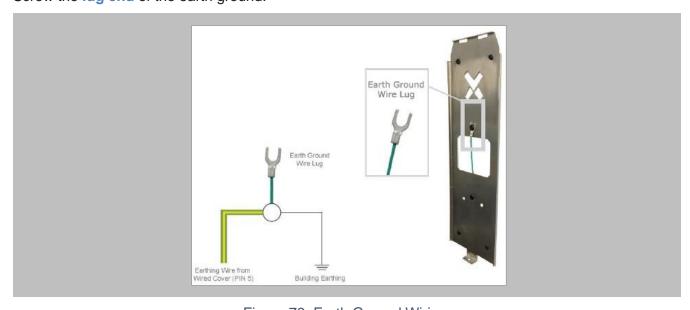


Figure 79: Earth Ground Wiring



Wiring

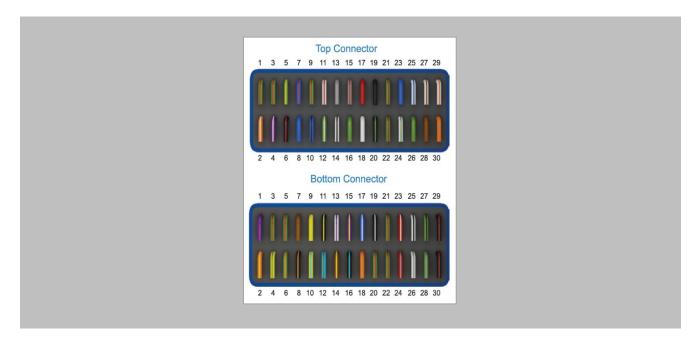
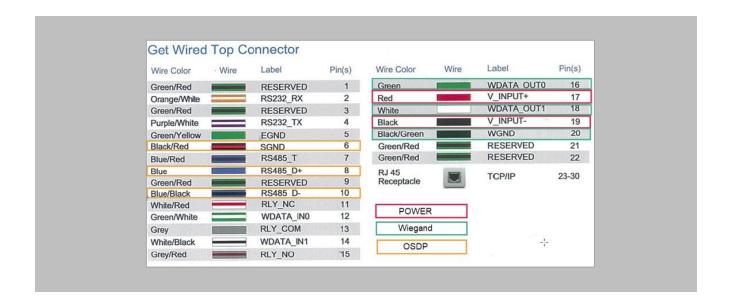


Figure 80: IXM TITAN – Top & Bottom Connector Wiring





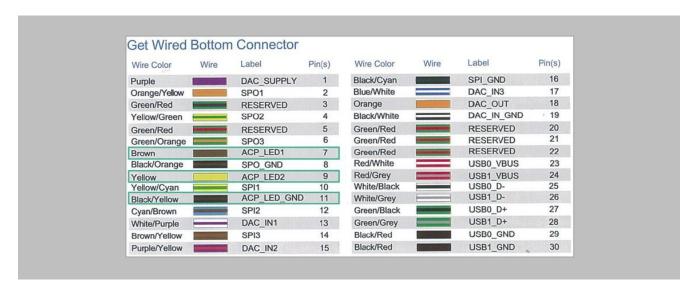


Figure 81: Power, Wiegand & OSDP Wires



All Invixium devices support Wiegand and OSDP.

Invixium devices can be integrated with SIEMENS Controller on:

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

Wiegand Connection

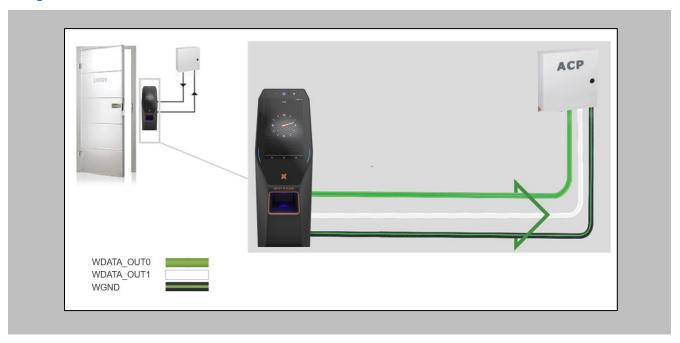


Figure 82: IXM TITAN - Wiegand

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

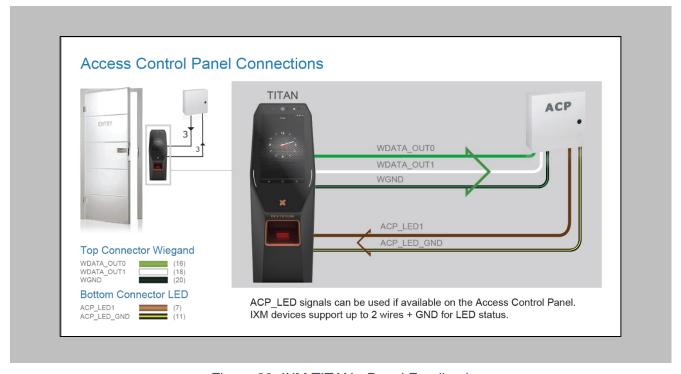


Figure 83: IXM TITAN - Panel Feedback

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



OSDP Connections

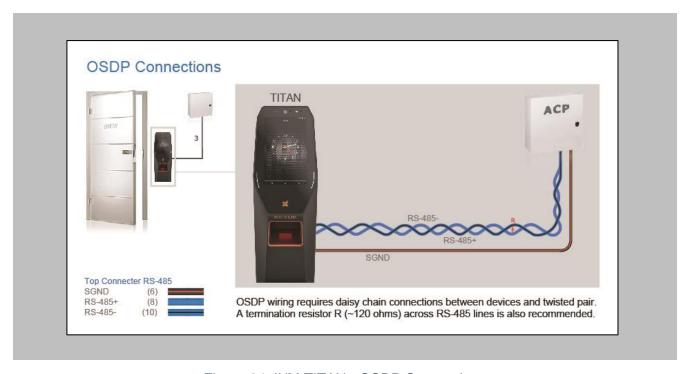


Figure 84: IXM TITAN - OSDP Connections

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



16. Troubleshooting

Reader Offline from the IXM WEB Dashboard

 $\left(\right)$

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

Procedure

STEP 1

From **Devices** tab select any device.

STEP 2

Navigate to the Communication tab. Scroll down and click on IXM WEB Server.

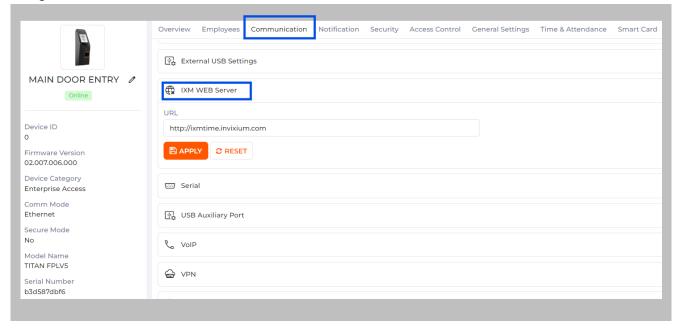


Figure 85: IXM WEB - Server URL Setting

STEP 3

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

Default Format: http://IP IXMServer:9108





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

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

Navigate to General -> Application Configuration and make sure that the URL is correct.

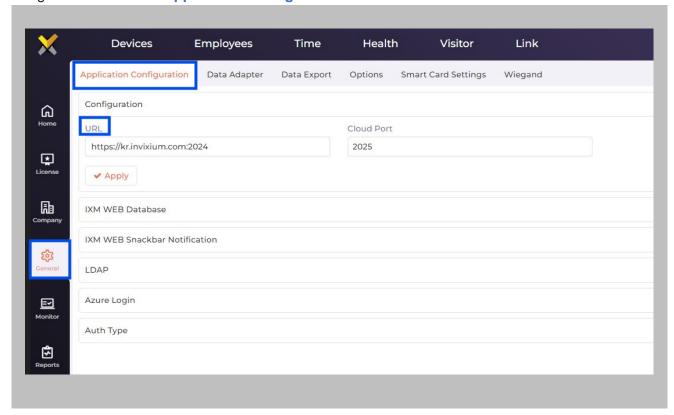


Figure 86: IXM WEB - Server URL Setting from General Settings



Elevated Body Temperature Denied Access but Granted Access in SiPort

Procedure

STEP 1

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

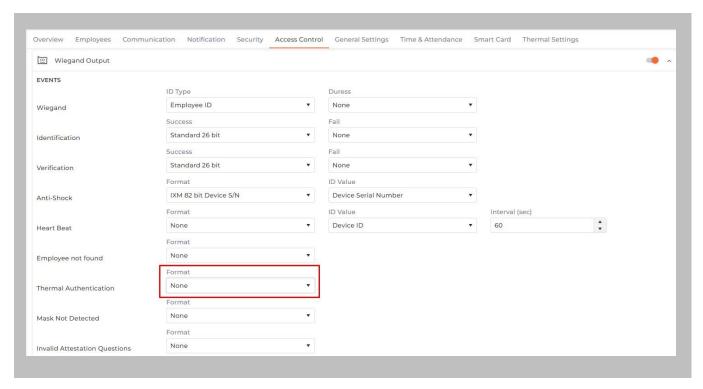


Figure 87: IXM WEB - Thermal Authentication Wiegand Output Event

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



Logs in IXM WEB Application

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

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



Figure 88: IXM WEB - Enable Device Logs

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

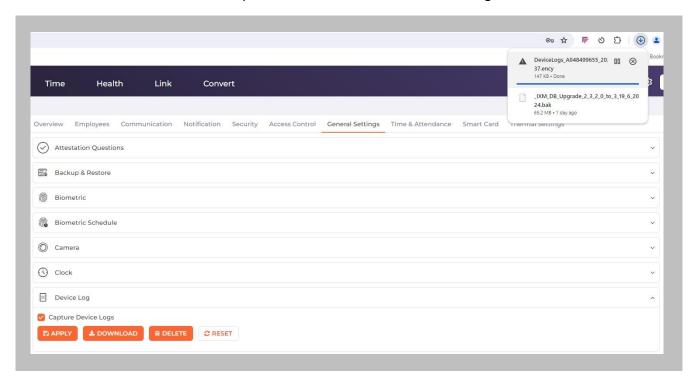


Figure 89: Save Device Log File





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

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

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

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

- Applications Logs can be viewed and exported from IXM WEB.
- Go to Logs in the Left Navigation pane in IXM WEB and click on Application Logs. The filter option is available in the Application Logs columns.

Logs folder location on IXM WEB Server:

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

Table 8: Logs Folder Location



Unable to connect to the SiPort Server

Procedure

STEP 1

(j) Note: Confirm module activation

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



Figure 90: IXM WEB - Licence Module



Note: Confirm SiPort API is up and running using some REST API Client.

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

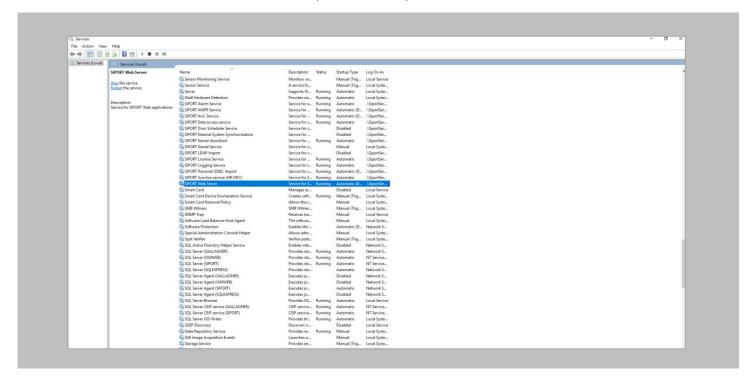
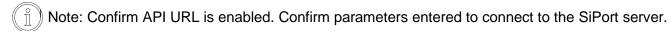


Figure 91: SIEMENS - SiPort Web Service





Ensure the correct **User** who is authorized to connect to the API of SIEMENS SiPort is listed here. If not, **correct** and **apply**.

Ensure the correct **Password** of the user who is authorized to connect to the API of SIEMENS SiPort is listed here. If not, **correct** and **apply**.

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

This file is available at the following path:

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



17. Support

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

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