

Configuring Enhanced Access Control Integration on an Entrance Station

Introduction

This guide covers how to enable and configure enhanced access control on an IXG-DM7-HID or IXG-DM7-HIDA entrance station. This setting allows the IXG-DM7-HID(A) station to send a notification to the access control system whenever a tenant unlocks the door with an access code, from an answering station, or a mobile device. This enables the access control system to identify which tenant released a door, regardless of the method used.

To use these functions, IXG Support Tool must be updated to version 6.0.0.3 or higher. The IXG-DM7-HID(A)'s main firmware must be at 4.82 or higher, and the subsystem firmware must be at 3.01 or higher.

IXG Support Tool can be downloaded here: <https://www.aiphone.com/IXG-SupportTool>

The firmware updates can be downloaded from the Aiphone Technical Knowledge Base: <https://www.aiphone.com/kbtopic/ixg-series/>



Before updating the subsystem firmware, connect the station's Wiegand wires to the access control system. These provide power to the card reader and the subsystem.

IXG Support Tool Steps

In IXG Support Tool, navigate to **View(V)** on the top menu and select *Advanced*.



Navigate to **Entrance Station Settings**, **Access Control Settings** on the left side menu. Use the drop-down menus to set **Access Control Settings** to Enhanced Integration and **PIN Code Format** to 8 bit burst. Enter a random number under **Door Release PIN Code**. This can be any number between 1 and 24 digits. Once everything is configured, click **Save**.

Building Nu	Unit Number	Station Name	Entrance Station Settings		
			Access Control Settings	Access Control Settings	
				Wiegand I/F PIN Code Settings	
				PIN Code Format	Door Release PIN Code
01	204	Entrance Station1	Enhanced Integration	8 bit burst	2



IXG Support Tool Steps

Navigate to **Entrance Station Settings**, *Access Code*. Use the filters at the top of the page to select the building and entrance panel. The default code length is 4; it does not need to match the **Door Release PIN Code** setting from the previous step. This can be adjusted if needed. Click **Apply**.

Filter

Building Number / Building Name: 01/Building1

Station Number / Station Name: 2040/Entrance Station1

Length:

Fill in the desired access codes for the units. These can be used directly at the entrance station to release the door, and they will be transmitted to the access control system whenever stations or users associated with the unit release the door. Click **Save**.

Building Nu	Unit Numbe	Unit Name	Access Code	with Touch Panel	
				Relay Output 1	Relay Output 2
01	100	Outside Area 100			
01	200	Apartment 1	3497	A3497	

i All elements in the chart can be copied and pasted to an Excel spreadsheet for backup, if required by the site. Elements from the spreadsheet can also be pasted into the **Access Code** column as needed.

Navigate to **Connection(S)**, *Upload Settings* on the top menu. Select all stations and click **Settings**.

Setting File Upload

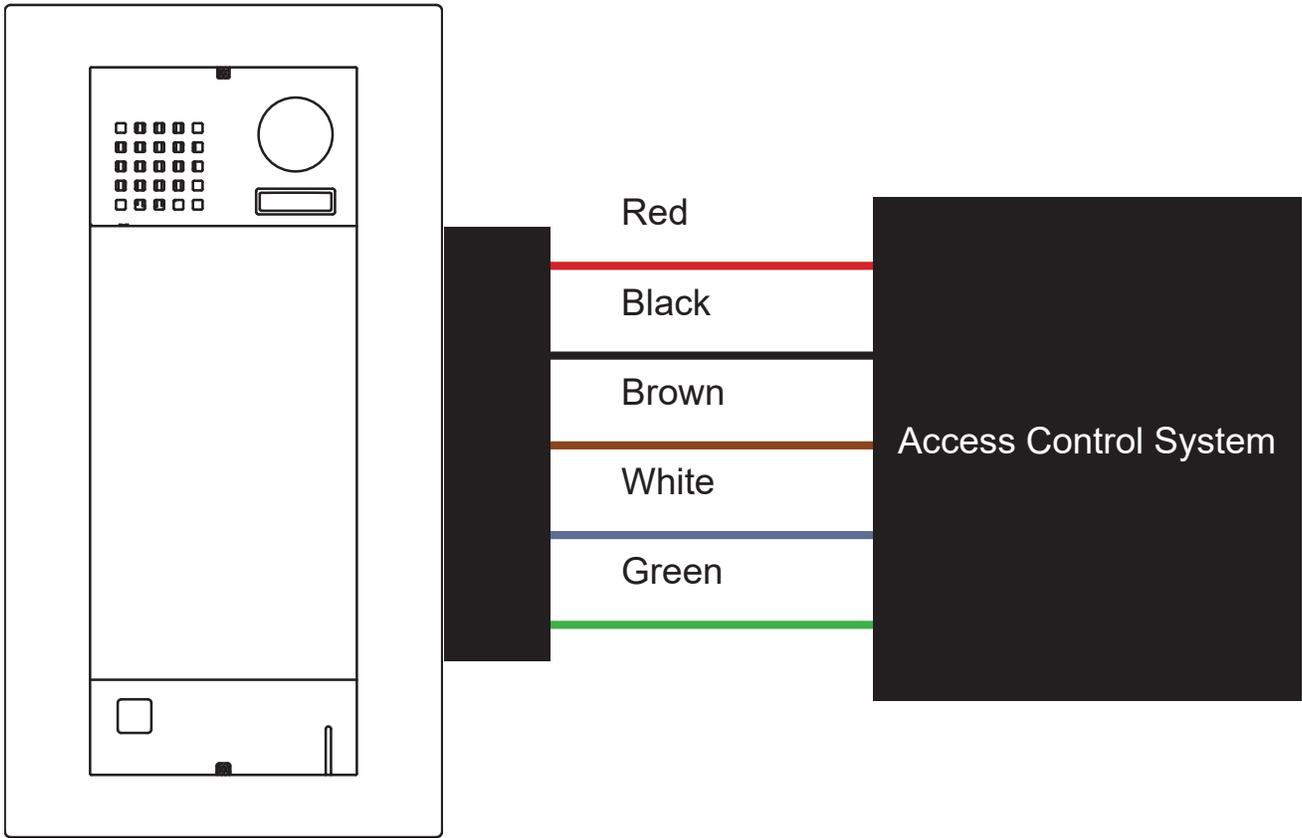
Select the station(s) to upload the Setting File(s):

Station List					
Select	Building Nu	Unit Number	Station Name	Station Type	Status
<input checked="" type="checkbox"/>	01	100	Video Door Station1	IX-DV:IX-DVF(-*)	-
<input checked="" type="checkbox"/>	01	200	Master Station1	IX-MV7-*	-
<input checked="" type="checkbox"/>	01	201	Master Station1	IX-MV7-*	-
<input checked="" type="checkbox"/>	01	202	Master Station1	IX-MV7-*	-
<input checked="" type="checkbox"/>	01	203	Master Station1	IX-MV7-*	-
<input checked="" type="checkbox"/>	01	204	Entrance Station1	IXG-DM7(-*)	-

Select Station by Type:

Select file type to be uploaded:

Access Control Wiring



IXG-DM7-HID(A)

Wiegand Wiring	
Wire Color	Function
Red	Power
Black	Ground
Brown	LED Control Unit
White	Output D1
Green	Output D0

i Take special care to wire these terminals correctly. If there are issues with initial integration, confirm the wiring first.

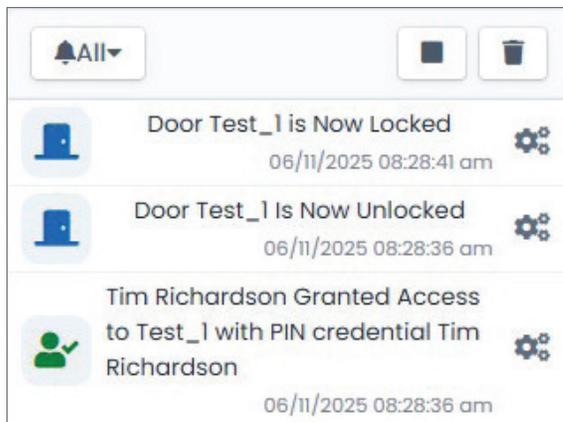
Access Control Notifications

Once the IXG-DM7-HID(A) is configured to send the 8 bit bursts, the access control system will need to be configured to associate the desired users with their access code. As mentioned on page 2, the unit numbers and access codes can be copied and pasted into an Excel spreadsheet and imported into the access control platform. The required format and steps to add users and access codes will vary depending on the access control system used.

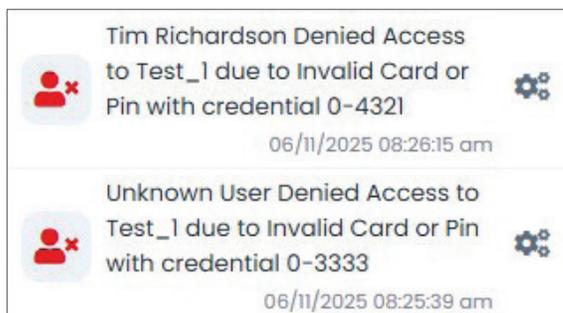
Building Number	Unit Number	Unit Name	Entrance Station Settings	
			Access Code	Access Code with Touch Panel Relay Output 1
01	100	Outside Area 100		
01	200	Apartment 1	3497	A3497
01	201	Apartment 2	4359	A4359
01	202	Apartment 3	2347	A2347
01	203	Apartment 4	7891	A7891

Once the access code is assigned to a user, the access control platform will receive a notification from the IXG-DM7-HID(A) whenever the entrance panel's door release is engaged.

The below example shows the AC Nio™ software from Aiphone. The user has been assigned to an access privilege group with permission to unlock the door when their access code is entered. The same message will appear when an answering station or IXG mobile app releases the door. The credential will not be displayed, instead referring to its name in AC Nio.



If the user attempts to access a door they are not assigned to, or uses their access code outside of their assigned schedule, a failure message will be sent. Notifications will also go out when an unknown code is entered. Both will show the credential with a site ID of 0.



For more details about the features and information above, please contact Technical Support.