

INSTALLATION



MAC302M 2 Reader Interface Door Access



MAC302M: 2 Reader Interface Door Access

Description

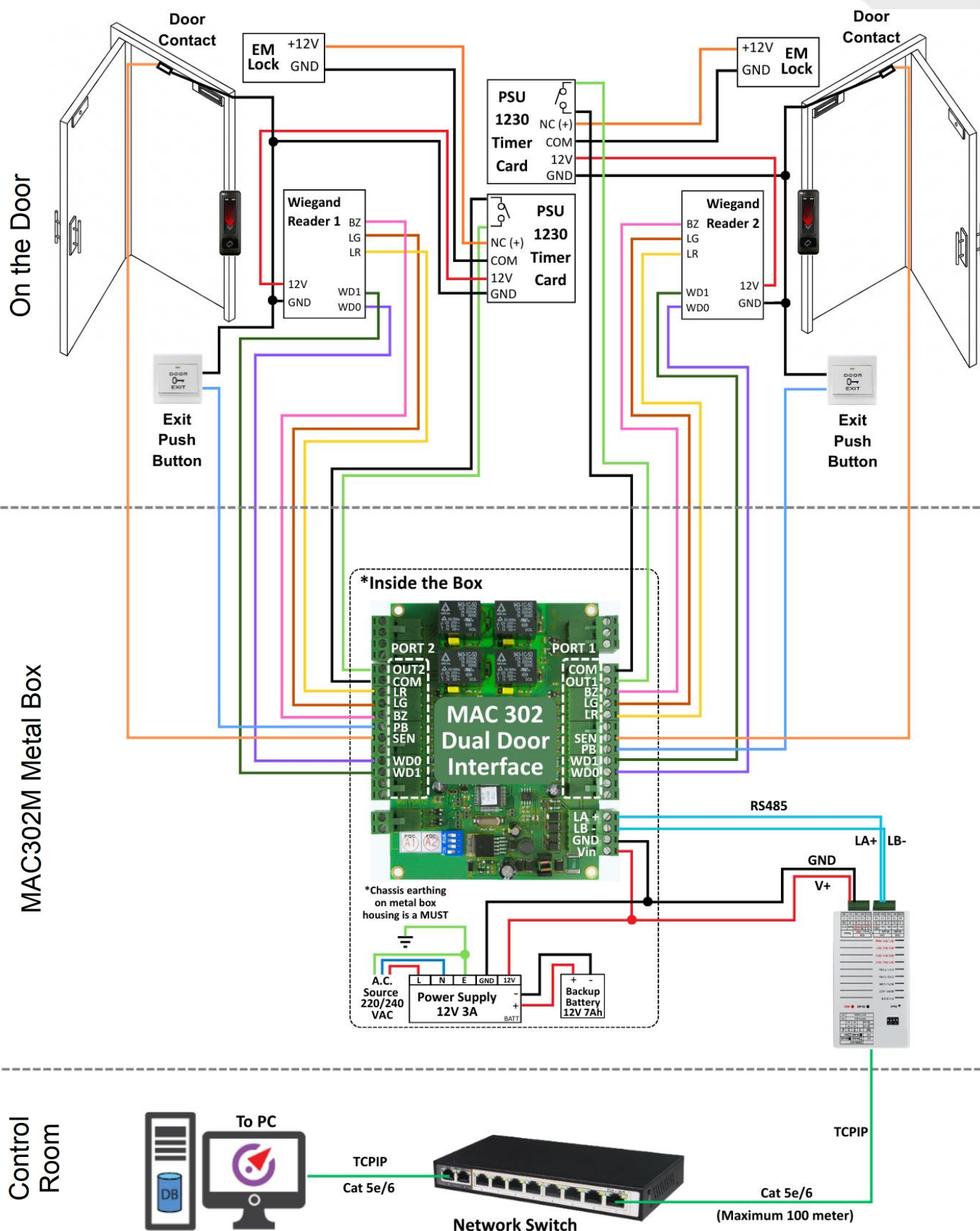
The MAC302M is a professional dual-door interface designed for high-security access control systems. It enables the independent management of two separate doors by connecting up to two Wiegand readers. Optimized for secure facility management, the MAC302M supports a user capacity of 3,000 card holders and features integrated anti-passback functionality to prevent unauthorized re-entry and credential sharing.

Seamlessly integrating with MagEtegra software, the MAC302M provides a user-friendly experience for managing access permissions, real-time event monitoring, and comprehensive reporting.

Features

1. **Dual Door Control:** The unit is a 2-door controller designed to manage two entry points independently.
2. **User Capacity:** It supports a medium capacity of up to **3,000 card users**.
3. **Flexible Reader Integration:** Includes two universal Wiegand ports (supporting WG 26 and WG 34) to integrate HID or other third-party reader brands as entry and exit pairs.
4. **Local Anti-Passback:** Prevents users from re-entering using the same card until they have first exited the premise.
5. **Time Zone & Access Management:** Supports up to **63 weekly time zones** and offers multiple access methods, including card only, card and PIN, or card or PIN.
6. **Comprehensive Alarm Monitoring:** Features two independent door sensor inputs that trigger a buzzer and log software events if a door is forced open or left ajar.
7. **Logging & Memory:** Stores a transaction log of up to **1,456 records**.
8. **Software Integration:** Works with **MAGEtegra software**, featuring a clean GUI, E-maps for pinpointing threats, and multi-shift time attendance support.
9. **Hardware Inputs/Outputs:** Equipped with two door open button inputs, two door sensors, two door relays, and one alarm relay.
10. **Continuous Operation:** Supports rechargeable battery integration to keep the system running during power outages.

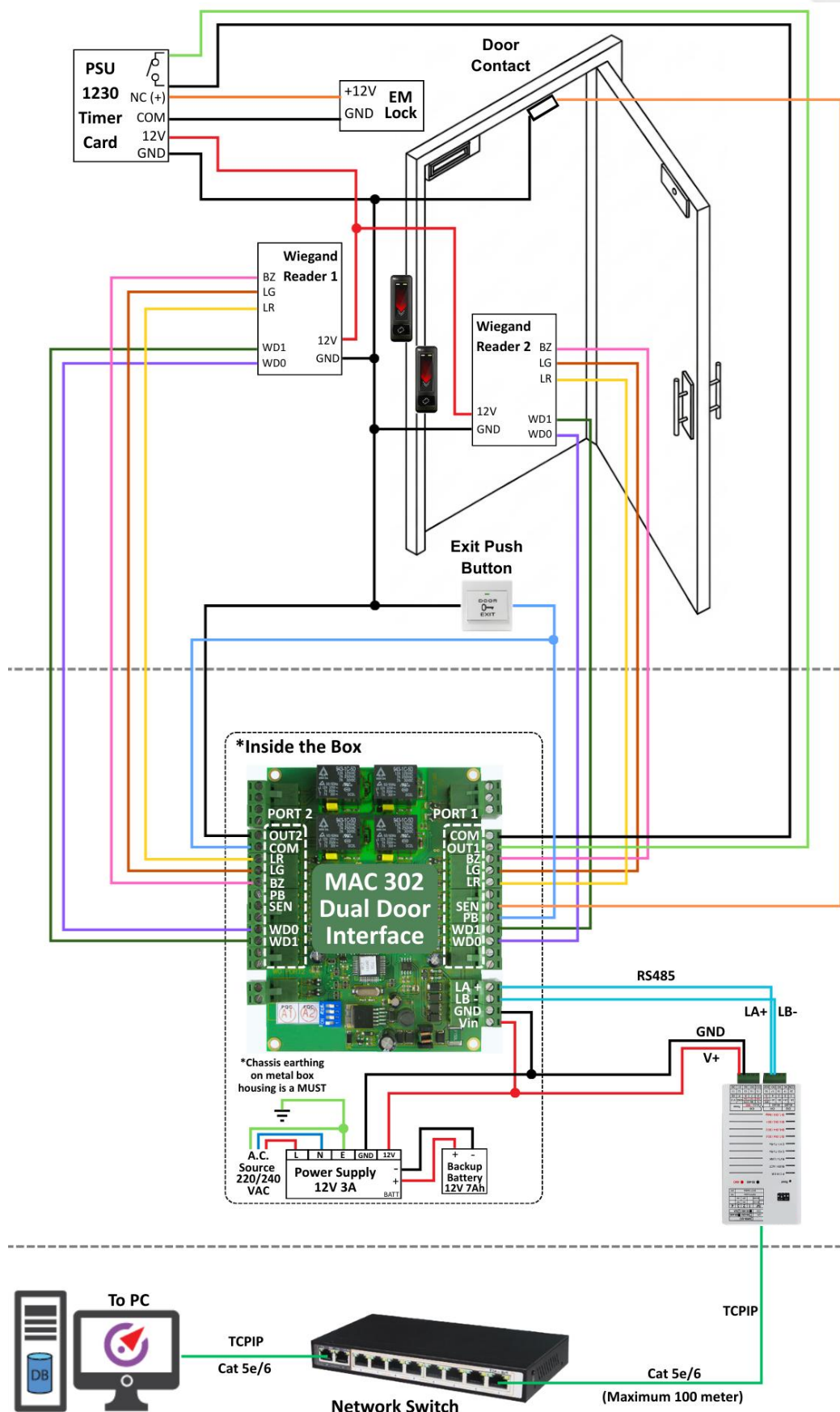
Two Door Wiring Diagram



Standalone Door Wiring Diagram

On the Door

MAC302M Metal Box

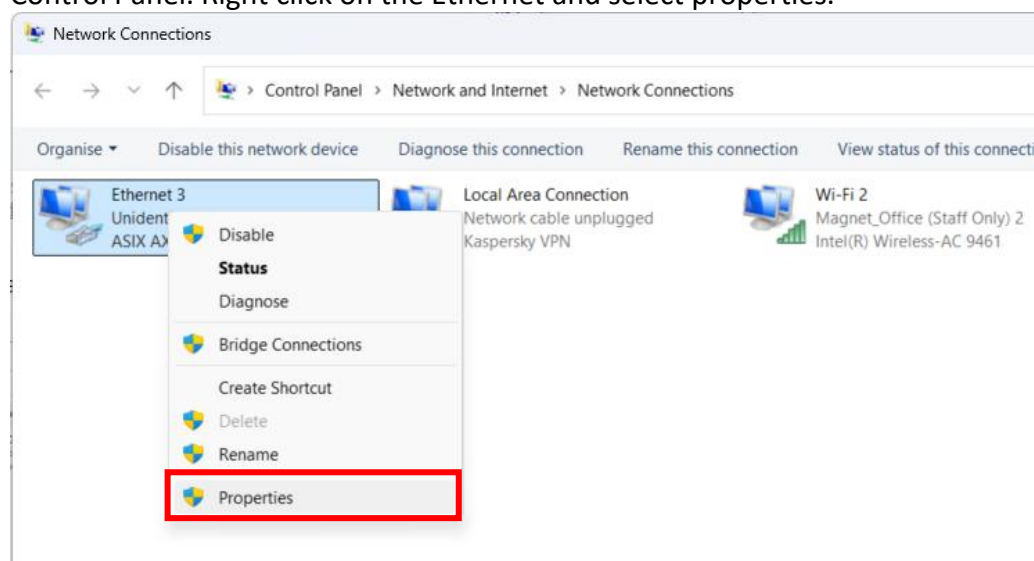
Control
Room

AR727CM hardware setup

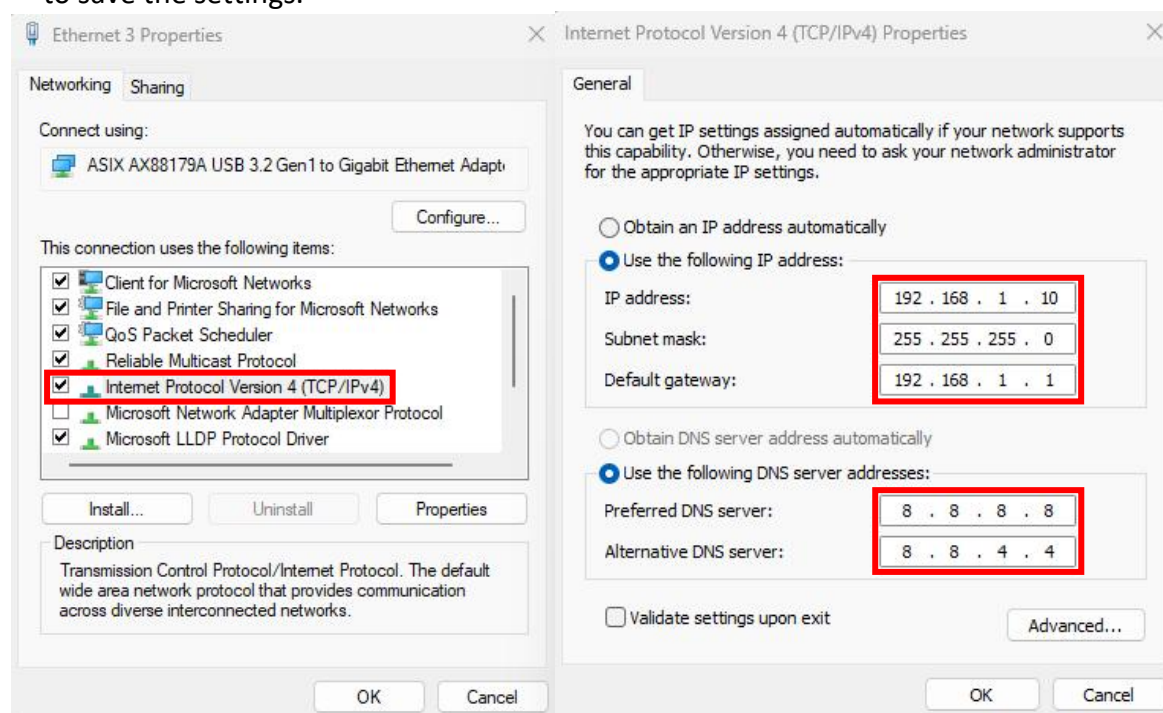
The default IP Address for AR727CM is 192.168.1.127. Ensure that the IP segment for the PC is similar.

1. Setting the PC's IP Address.

- a) Go to the “Network connections” setting under “Network and Internet” option in the Control Panel. Right click on the Ethernet and select properties.



- b) Double click “Internet Protocol Version 4 (TCP/IPv4)”. Tick the “Use the following IP Address”. Set the IP Address, Subnet mask and Default Gateway accordingly. Click “OK” to save the settings.



2. Set the IP Address for AR727CM.

To make sure that the AR727CM successfully connected to the PC, open the command prompt and ping the device IP Address.

“ping 192.168.1.127 -t”

```

C:\> Command Prompt - ping 192.168.1.127 -t

Microsoft Windows [Version 10.0.26100.7623]
(c) Microsoft Corporation. All rights reserved.

C:\Users\marketing3>ping 192.168.1.127 -t

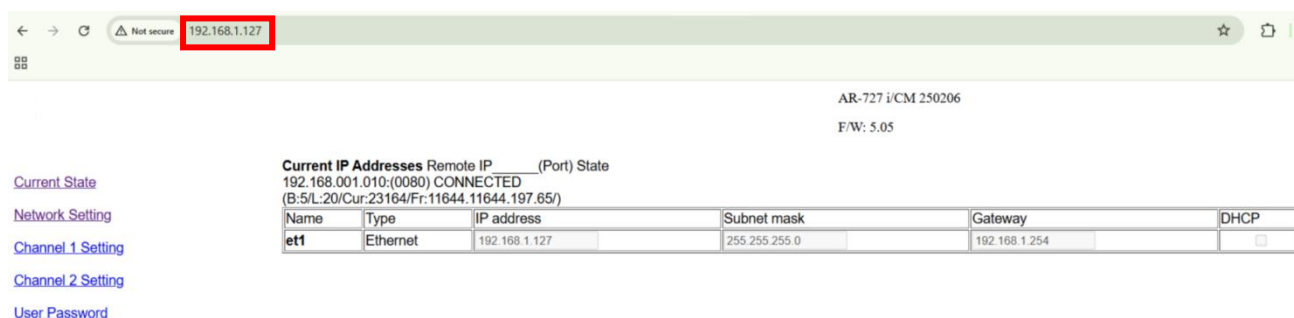
Pinging 192.168.1.127 with 32 bytes of data:
Reply from 192.168.1.127: bytes=32 time<1ms TTL=64
Reply from 192.168.1.127: bytes=32 time<1ms TTL=64
Reply from 192.168.1.127: bytes=32 time<1ms TTL=64
Reply from 192.168.1.127: bytes=32 time<1ms TTL=64
Reply from 192.168.1.127: bytes=32 time<1ms TTL=64
Reply from 192.168.1.127: bytes=32 time<1ms TTL=64
Reply from 192.168.1.127: bytes=32 time<1ms TTL=64
Reply from 192.168.1.127: bytes=32 time<1ms TTL=64

```

(if unsuccessful, try resetting AR727CM. Hold for 5 seconds.)



a) Open the web browser, key in the IP Address on the search bar, then click “Network Setting”.



b) Enter “Username : SuperAdm” & “Password : 721568” then click “Sign in” to enter the network setting.

Sign in

http://192.168.1.127

Your connection to this site is not private

Username

Password

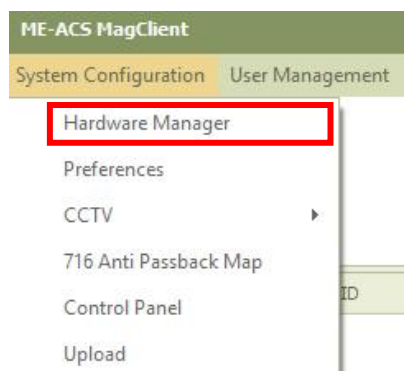
c) Set the IP Address, subnet mask and gateway accordingly. Click update to save the setting. If the IP segment is different, make sure to change the IP Address for the PC same IP segment same with the device.

Item	Setting
Device Name	S2E-Device
LAN IP Address	192.168.1.127
LAN Net Mask	255.255.255.0
Default Gateway	192.168.1.254
Primary DNS Server	168.95.1.1
Secondary DNS Server	168.95.192.1
MAC Address	00-13-57-07-06-5A
HTTP Server Port	80 (80~65530)
TCP I/O Control Port	1601 Set to 502:Enable Modbus-TCP IO and Modbus-TCP to RTU on CH1/2 port 1621/1623
DHCP Client	☐
	Update

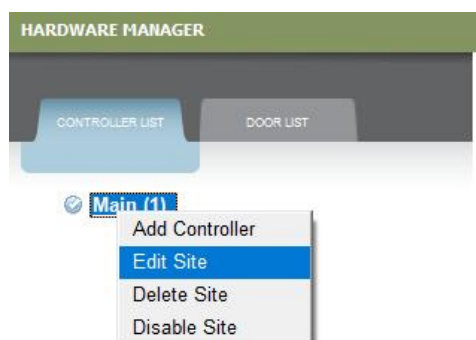
MagEtegra ME-ACS software setup

1. Add AR727CM into Hardware Manager

a) Run MagClient --> System Configuration --> Hardware Manager



b) Right click on Main--> Click "Edit Site"



INSTALLATION

c) Select “TCPIP” and key-in the Site Name, AR727CM’s IP address and port number.



EDIT SITE [X]

Site ID: 1

Site Name: North Wing

Server Location: ☒ Local ☐ Remote

COM/TCPIP: TCPIP

IP Address: 192.168.1.127

Port: 1621

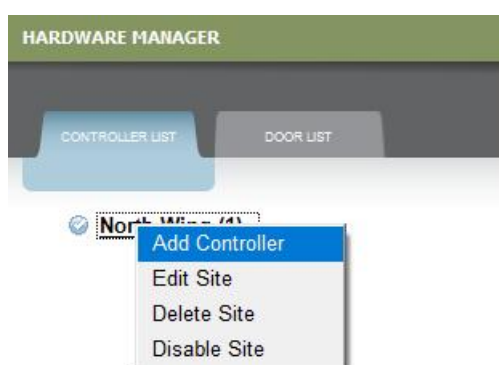
TCPIP

Timeout: 5000

Polling Speed: 1000

SAVE CANCEL

d) Click on the selected site to highlight it, then right click and select “Add Controller” to add controller.



e) Key in the Reader Node ID (Default is 1) --> Select Reader Model MAC302 --> Key in Door Name --> Tick Wiegand reader connected --> key in reader name --> Click "Save" to save Settings.

Node ID	1	COM/TCPIP	TCP/IP
Model	MAC302	IP Address	192.168.1.127 Port 1621

RESET ANTI-PASSBACK

DELETE ALL CARD

EMPTY TRANSACTION

RECOVER USER DATA

Door ID

Door Name

☒ Wiegand reader connected

Location Picture

BROWSE

(show hardware settings applicable to the controller selected)

*Corresponding to Wiring Diagram's connection of readers to doors

ADD

EDIT

DELETE

SAVE

CANCEL

f) Clickon "Expand" to see all available readers

CONTROLLER LIST

DOOR LIST

North Wing (1)

1.0.1 - MAC302

EXPAND

COLLAPSE

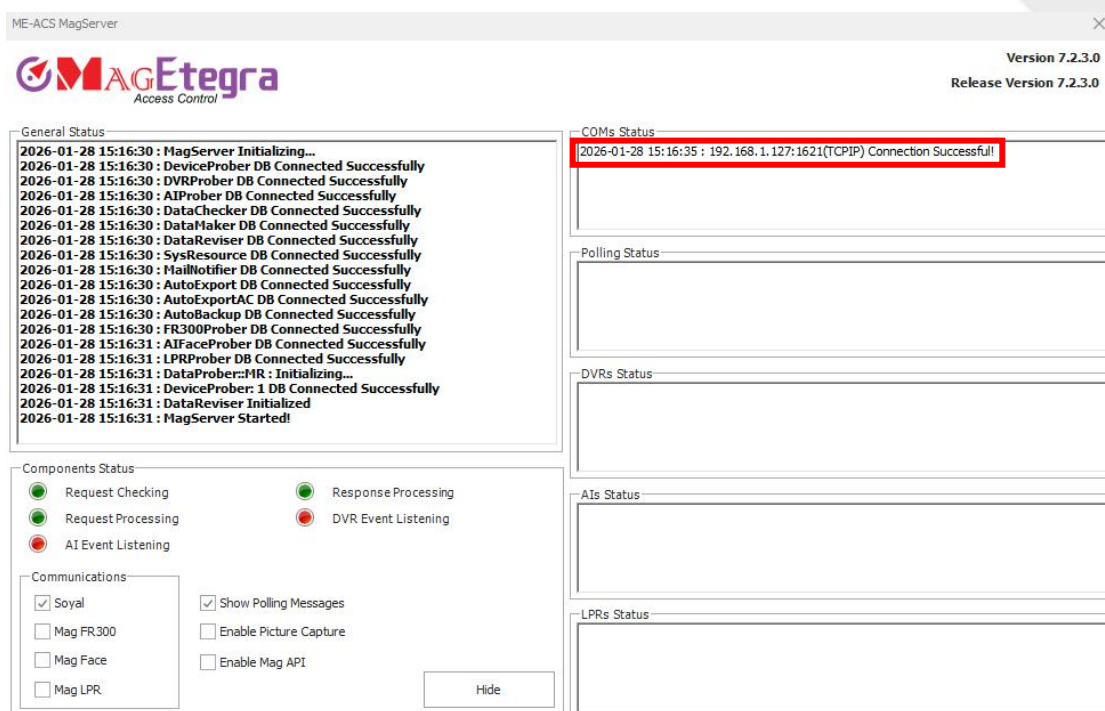
SEARCH

ADD SITE

REMOVE SITE

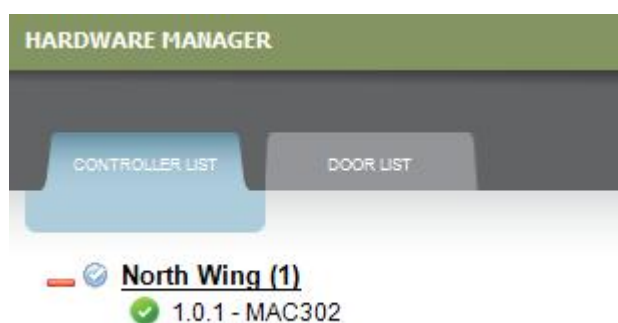
REFRESH

g) Launch “MagServer” and wait for COMs Status



*If unsuccessful, check for loose cable connections or mistyped IP Address.
By default, AR727CM's IP Address is “192.168.1.127”

h) Green Icon means connection of MAC302 to MagEtegra Software is successful



***Product performances is based on testing in a controlled environment. Your result may vary due to several external and environment factors.**

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