



# Incedo™

Overview for installers

**ASSA ABLOY**  
Opening Solutions

Experience a safer  
and more open world

# Introduction to Incedo™

We understand that security hardware and software are always in motion – and you need to keep moving too. Certainly, you can't afford the time delays and complications of installing and integrating complex systems. Instead, you need the simplicity, speed and future-focused flexibility of one common platform.

As an ecosystem, Incedo makes life a whole lot easier – speeding and simplifying setup of any ASSA ABLOY security system through a single, seamless platform that can satisfy every customer need.

All of which makes it easier to keep your business, work and offering moving.

Incedo is an access control system optimised for any small to medium-sized businesses yet easily upgraded to meet the demands of a large, multi-site organisation.

Designed around three core hardware components and three software management options, Incedo will meet your customer's requirements no matter how complex.

This powerful access control solution has features which punch well above its weight. An Incedo system is easy to install, configure and manage, thanks to its design and use of plug-and-play hardware with simple in-field configuration.

The system offers many enterprise features without the associated costs and has the best price-to-feature ratio of any system on the market.

## Which customer needs will the system fit?

- Improve security
- Reduce the risk of lost or duplicated keys and credentials
- Restrict access for unauthorised personnel
- Install a low-maintenance, reliable solution

## Customer benefits:

- Quickly add or remove personnel
- Extensive reporting
- True plug-and-play hardware
- Embedded software
- Control up to 32 doors
- No dedicated PC required\*
- Additional features by upgrading to Plus or Cloud versions

## To configure your Incedo system take the steps below:

**Step 1: Select management option**

- LITE
- PLUS
- CLOUD

**Step 2: Apply the relevant Software interface**

- Business
- Healthcare
- Education etc.

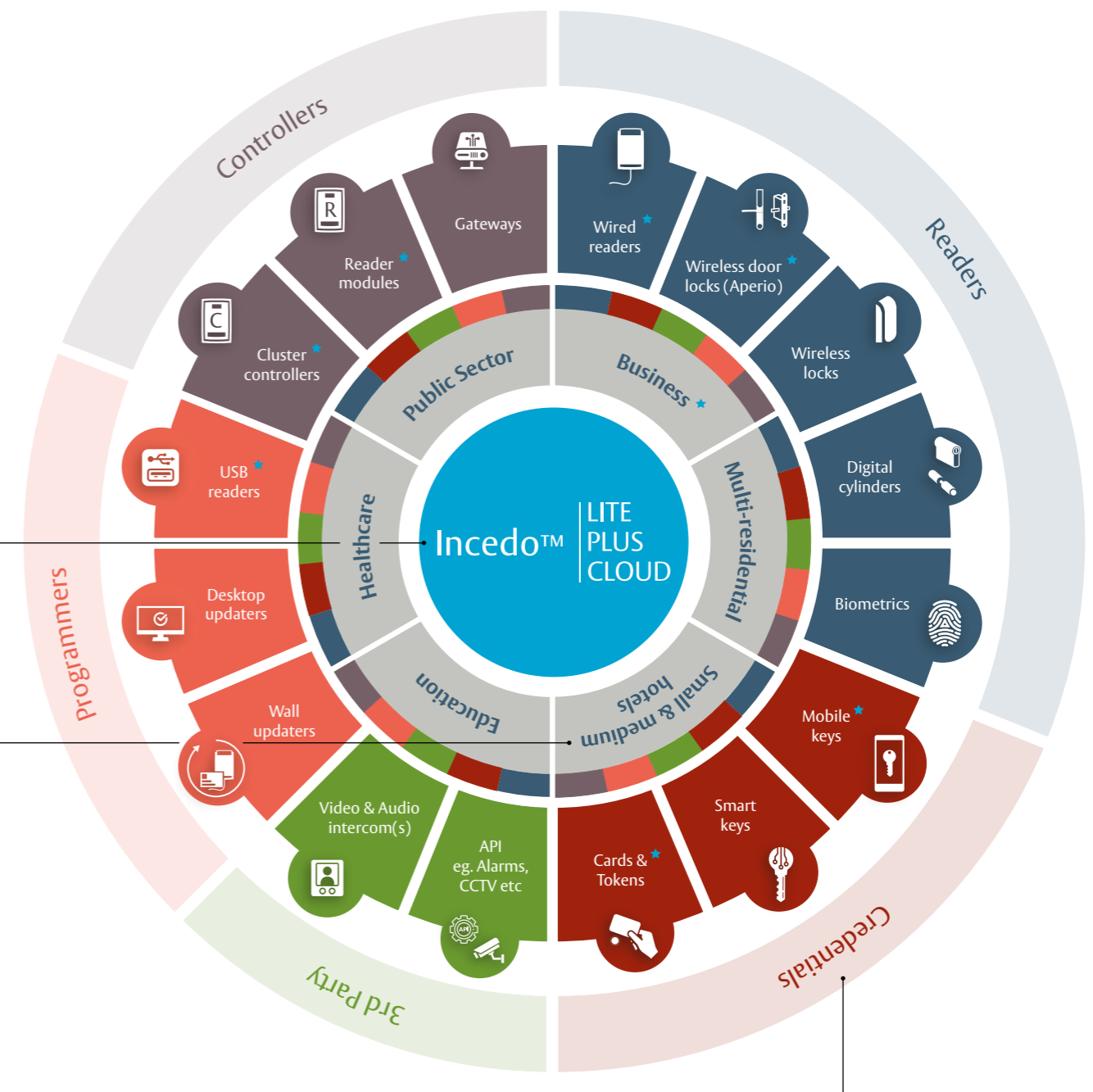
**Step 3: Select all relevant Enabled Hardware**

- Readers
- Credentials
- 3rd party
- Programmers
- Controllers

The Incedo ecosystem will evolve and grow by adding new Incedo-enabled hardware and software features. With a totally flexible choice from a growing portfolio of products and applications, you have peace of mind today and are equipped to meet the security challenges of the future.

**Key**

- Sectors
- ★ Already available



\*Lite and Cloud versions only

# Enabled hardware

## Controllers

The three core hardware components of Incedo are available with or without plastic housing.

The Cluster Controller Module is the heart of the Incedo system, managing either wireless or wired access control readers and locks. The PSU included in the Metal box (EAC-M50) powers the Module to enable consistent communication between all devices.



The inbuilt TCP/IP port lets you manage the system from any browser or in the cloud.

The Door Reader Module is the bridge between the system and the readers, each can connect to several devices (see page 8) depending upon the number of doors.

### EAC-CP5 / EAC-CR5 Cluster Controller Module

- Control up to 32 doors
- Easy integration
- Plug and play system



### EAC-DP5 / EAC-DM5 Door Reader Module

- Connect two 'read in' or one 'read in/out' reader per Door Reader Module
- Manage up to two Door Position Sensors and Request to Exits from each Door Reader Module



### EAC-IP5 / EAC-IM5 IO Module

- Control elevators, alarm systems etc.
- Handles multiple integration options
- Multi-site possibilities
- IO Module is compatible only with the Plus software

## Readers

There are plenty of options to integrate Incedo hardware with various door locks and readers. These include, but are not restricted to:

### Wireless Door Locks and Aperio® Hub:

- Fits all types of interior openings
- Robust and reliable, fast to fit and wire-free
- Uses up to 75% less energy than comparable wired door locks
- Use RS485 hubs for Incedo Lite and Cloud, while Plus uses the IP version of Hub



### Wired Readers:

- Interoperable with a range of technologies\*
- Secure data model for additional identity protection
- Reduces power consumption by as much as 59%
- Supports NFC and option for BLE mobile access

\*iCLASS Seos®, iCLASS SE, iCLASS®, MIFARE® Classic, MIFARE DESFire® EV1 and various mobile devices

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ASSA ABLOY RDR-MPS (STD)  
RDR-MPB (BLE)



ASSA ABLOY RDR-PPS (STD)  
RDR-PPB (BLE)



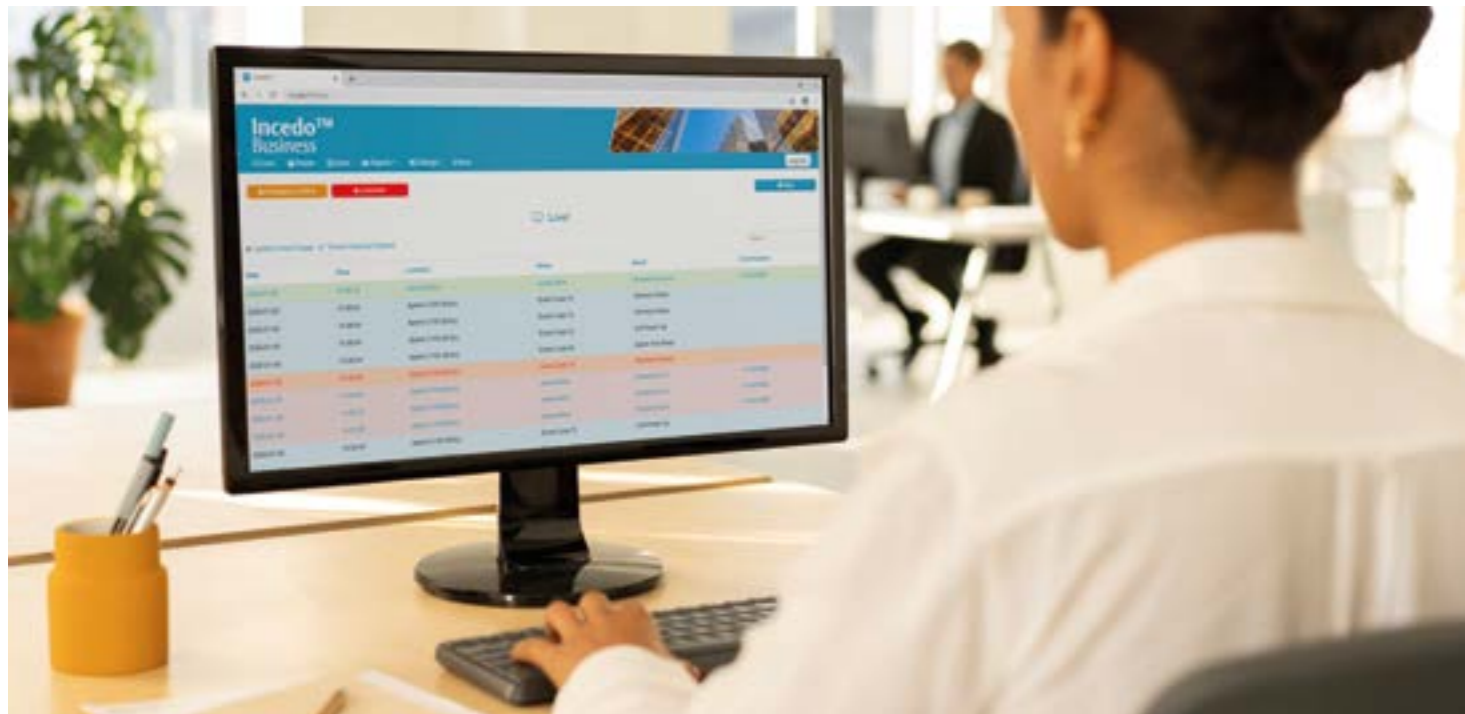
ASSA ABLOY RDR-SPS (STD)  
RDR-SPB (BLE)

## Credentials

### Cards, tokens and mobile keys:

ASSA ABLOY have a broad range of smart-card credentials enabled for Incedo. These include cards, tokens and mobile keys. Our offering includes standard single technology Seos type cards.





## Software management options

The Cluster Controller Module has the Lite software embedded within it. Connecting a PC with a web browser will launch it. If you wish to control access within buildings via the cloud, you can do so by changing the DIP switch settings.

### Lite

- A feature-rich, single platform solution
- Software embedded in system
- No dedicated PC required
- Easy to set up, quick to expand
- Manage up to 32 doors
- Access for up to 1,000 people
- Time saving auto ID of hardware

### Plus

Step up from Lite to enhanced access control features to manage multiple sites and integrate with third-party hardware.

### Cloud

Step up from Plus to control all sites via the cloud, access the system 24/7 via any smart device.

For more advanced options, Plus software will meet the needs of security control across multiple workstations and sites.

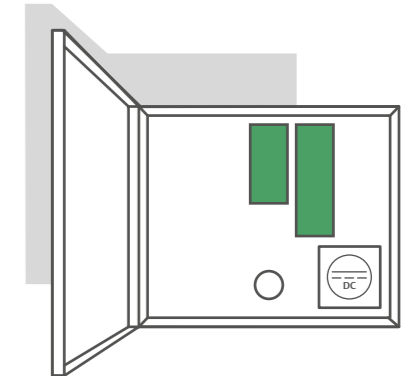


Launch dates for Plus and Cloud software versions vary per region

## System architecture

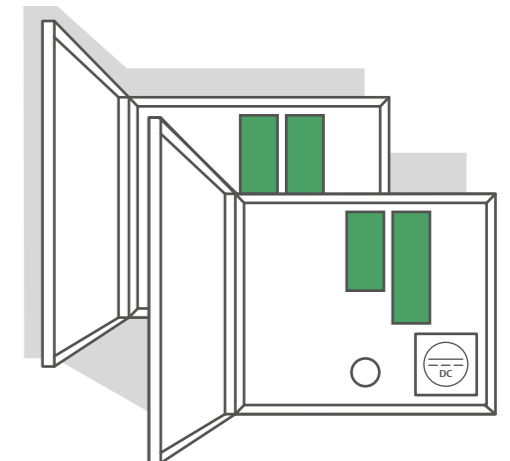
### ONE EAC-M50 enclosure

- With each EAC-M50, you receive a Cluster Controller Module and Door Reader Module which is sufficient for up to a maximum 32 wireless doors or 2 wired doors per Door Reader Module. There is the capacity to fit up to 4 Door Reader Modules per EAC-M50 enclosure, so ultimately, 32 wireless doors or 8 wired doors and up to 24 wireless doors can be connected



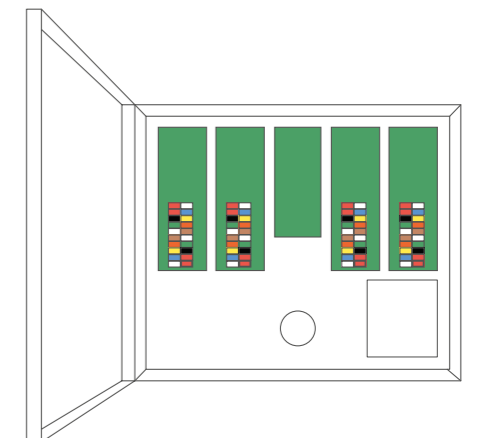
### TWO+ EAC-M50 enclosures are needed:

- For 9 to 32 wired readers
- The enclosures are linked with a RS485 cable, saving on long, multiple-reader cable runs (remember the total wired door count still cannot exceed the 8-door limit per enclosure.)
- For between 3 and 8 wired doors, additional Door Reader Modules would need to be fitted as per the diagram on page 8
- The Cluster Controller Module can then handle 32 wireless doors minus the number of wired door configurations fitted



### How many EAC-DM5 Door Reader Modules are needed?

- One EAC-DM5 Module is needed for every two doors which only require entry readers
- One EAC-DM5 Module is needed for each door that has both entry and exit readers
- Inside each EAC-M50 enclosure there is space to fit a further 3 x EAC-DM5 to total 4 x EAC-DM5





















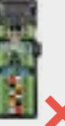




# Incedo EAC-M50 Configuration Options

## EAC-M50

The metal enclosure EAC-M50 contains a Cluster Controller, a Door Reader module and a power unit to get you started with Incedo. Further Door Reader Modules can be clicked into the Metal enclosure if the installation requires. See below examples of various standard configurations, before a Slave Cluster Controller would be required to be fitted to the Master Controller, marked with a red X below.

						
Configuration: 2 Door In 1 Door In/Out Lite, Plus, Cloud	 Cluster Controller IPS backplate	 Reader Module IPS backplate				
Configuration: 4 Door In 2 Door In/Out Lite, Plus, Cloud	 Cluster Controller IPS backplate	 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate			
Configuration: 6 Door In 3 Door In/Out Lite, Plus, Cloud	 Cluster Controller IPS backplate	 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate		
Configuration: 8 Door In 4 Door In/Out Lite, Plus, Cloud	 Cluster Controller IPS backplate	 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate	
Configuration: 10 Door In 5 Door In/Out Lite, Plus, Cloud	 Cluster Controller IPS backplate	 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate	 EAC-DM5 Reader Module IPS backplate

\*For 9 wired doors or more, slave controller(s) would be required either as additional EAC-M50 or further EAC-CP5 modules, up to 6 slave controllers can be connected via RS485 cables

Included with EAC-M50

# Incedo EAC-CP5 Plastic Housing Controller Options

## EAC-CP5 / EAC-DP5

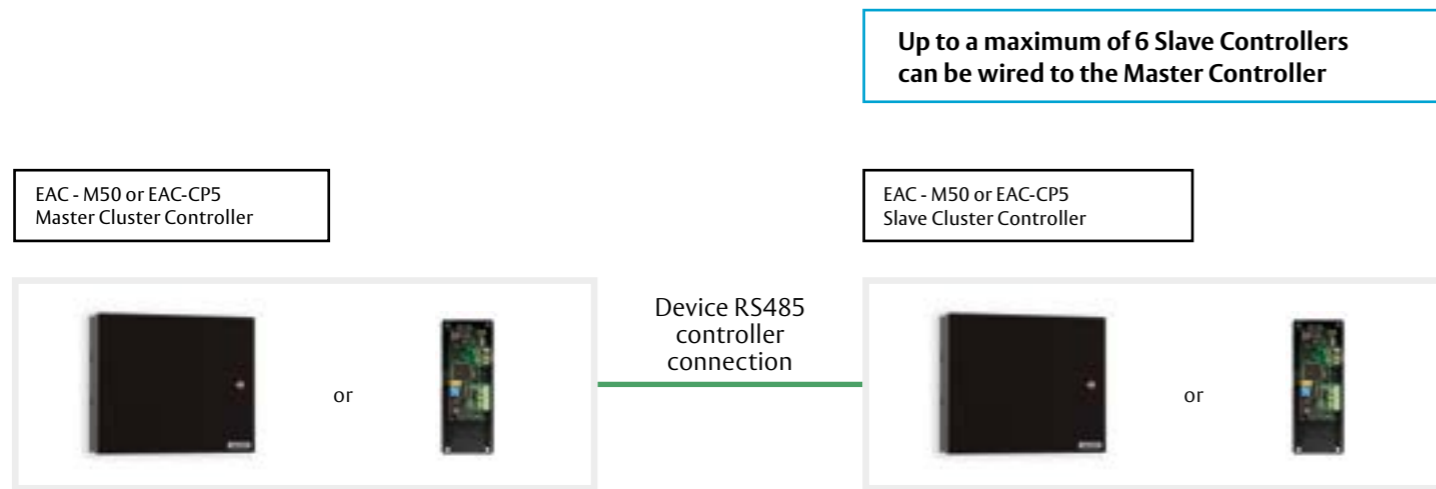
Plastic housing versions allow you to connect an external power source with no requirement for the EAC-M50 box. Installing the modules in plastic housing takes up less space. Below are configurations for up to 8 wired doors. You would then require another Cluster Controller (EAC-CP5).

						
Configuration: 2 Door In 1 Door In/Out Lite, Plus, Cloud	 EAC-CP5 Cluster Controller Plastic housing	 EAC-DP5 Reader Module Plastic housing				
Configuration: 4 Door In 2 Door In/Out Lite, Plus, Cloud	 EAC-CP5 Cluster Controller Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing			
Configuration: 6 Door In 3 Door In/Out Lite, Plus, Cloud	 EAC-CP5 Cluster Controller Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing		
Configuration: 8 Door In 4 Door In/Out Lite, Plus, Cloud	 EAC-CP5 Cluster Controller Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing	
Configuration: 10 Door In 5 Door In/Out Lite, Plus, Cloud	 EAC-CP5 Cluster Controller Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing	 EAC-DP5 Reader Module Plastic housing

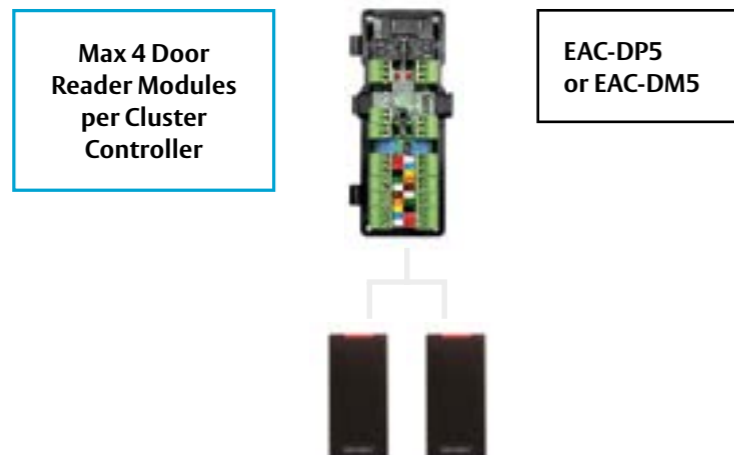
\*For 9 wired doors or more, slave controller(s) would be required either as additional EAC-M50 or further EAC-CP5 modules, up to 6 slave controllers can be connected via RS485 cables

# Cluster controller configuration options

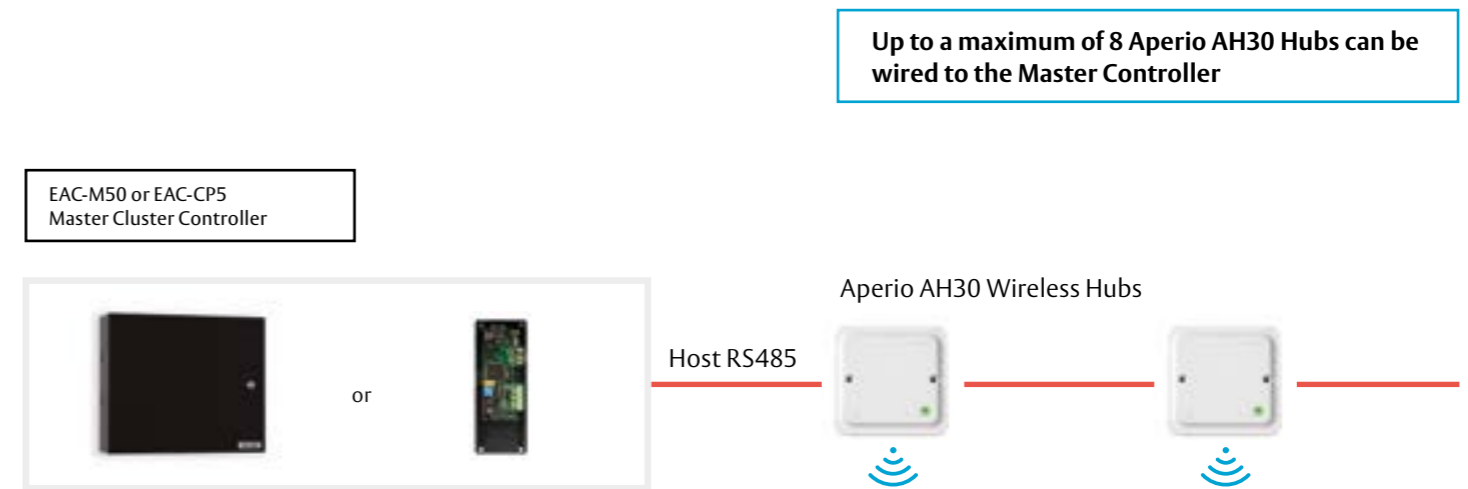
## Wired doors configuration



Reader Modules EAC-DM5 and EAC-DP5 connect locally to EAC-M50 or EAC-CP5 respectively



## Wireless door configuration



A wide range of Aperio products are available

A maximum of 8 Aperio locks can be connected to each AH30 Hub

**Note:**  
A maximum of 32 readers either wired, wireless or a combination of the two, can be connected to an Incedo system

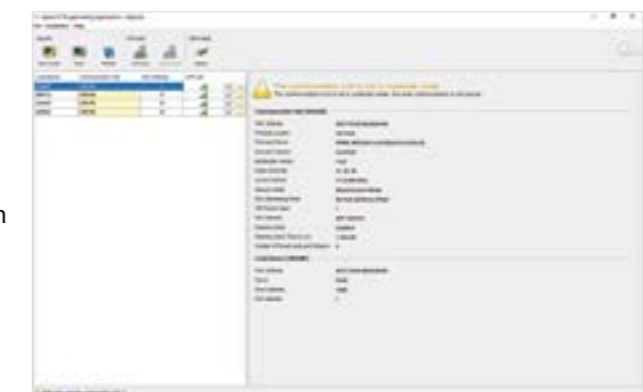


### Commissioning tools for Aperio products

The Aperio® Programming Application is the software tool used to set up and programme Aperio based products.

Using the software the installer simply plugs in the USB radio dongle to the PC to communicate directly to the Aperio lock via the Communication Hub.

For more details contact your local ASSA ABLOY Technical Support.



Aperio Wireless dongle



The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

**ASSA ABLOY**  
Opening Solutions

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, door and window hardware, locks, access control and service.

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