

# VEGA®

ITALIAN STYLE FOR LIFTS



# DESTINY control system

TECHNICAL BROCHURE



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## 1 Introduction to the Vega Destiny system

### What it is and how it is implemented

The VEGA DESTINY is a system to manage a group of lift in destination control. Compared to a conventional system, in destination control systems the choice of the destination floor is not made inside the cabin, but already in the floor call phase, therefore the system, having received the request, assigns, and indicates to the user the elevator to go to. Once inside the cabin the passenger is taken directly to their destination without having to carry out any further actions.

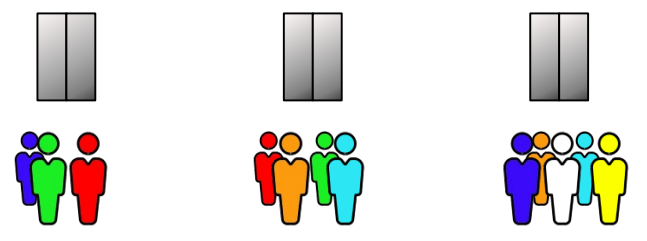
### Advantages

The advantages linked to VEGA DESTINY destination control management are several.

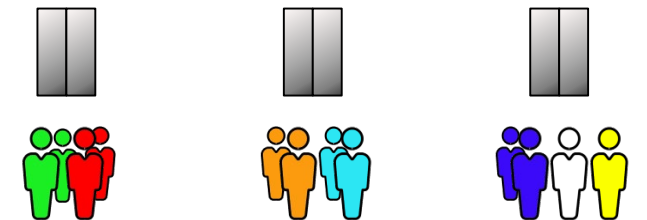


**Reduction of travel and waiting times:** grouping people going to the same destinations means fewer stops on each trip;

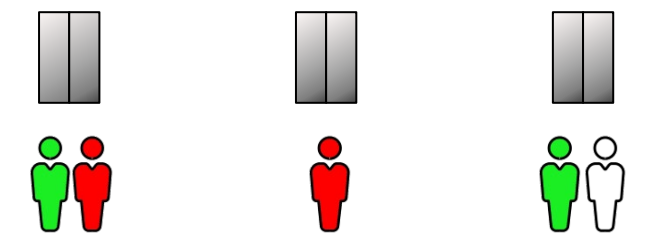
Conventional system



VEGA DESTINY system

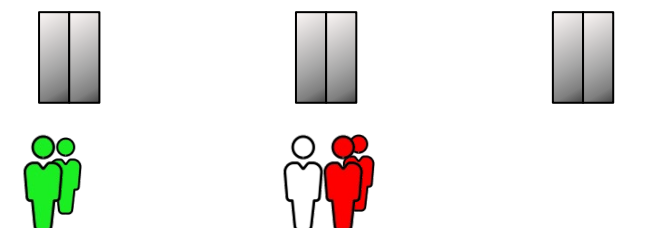


Conventional system



VEGA DESTINY system

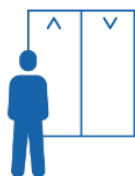
**Reduction of energy consumption and management costs:** thoughtful management of the cabin leads to the elimination of unnecessary trips;



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Destiny system

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**Reduced car overcrowding:**  
the system assigns each car to a maximum number of people and then proceeds with the assignment of the others;

Conventional system




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VEGA DESTINY system



**Intuitive and user-oriented system:** intuitive touch display, with functions dedicated to people with disabilities and VIP services.

**Typical configuration**

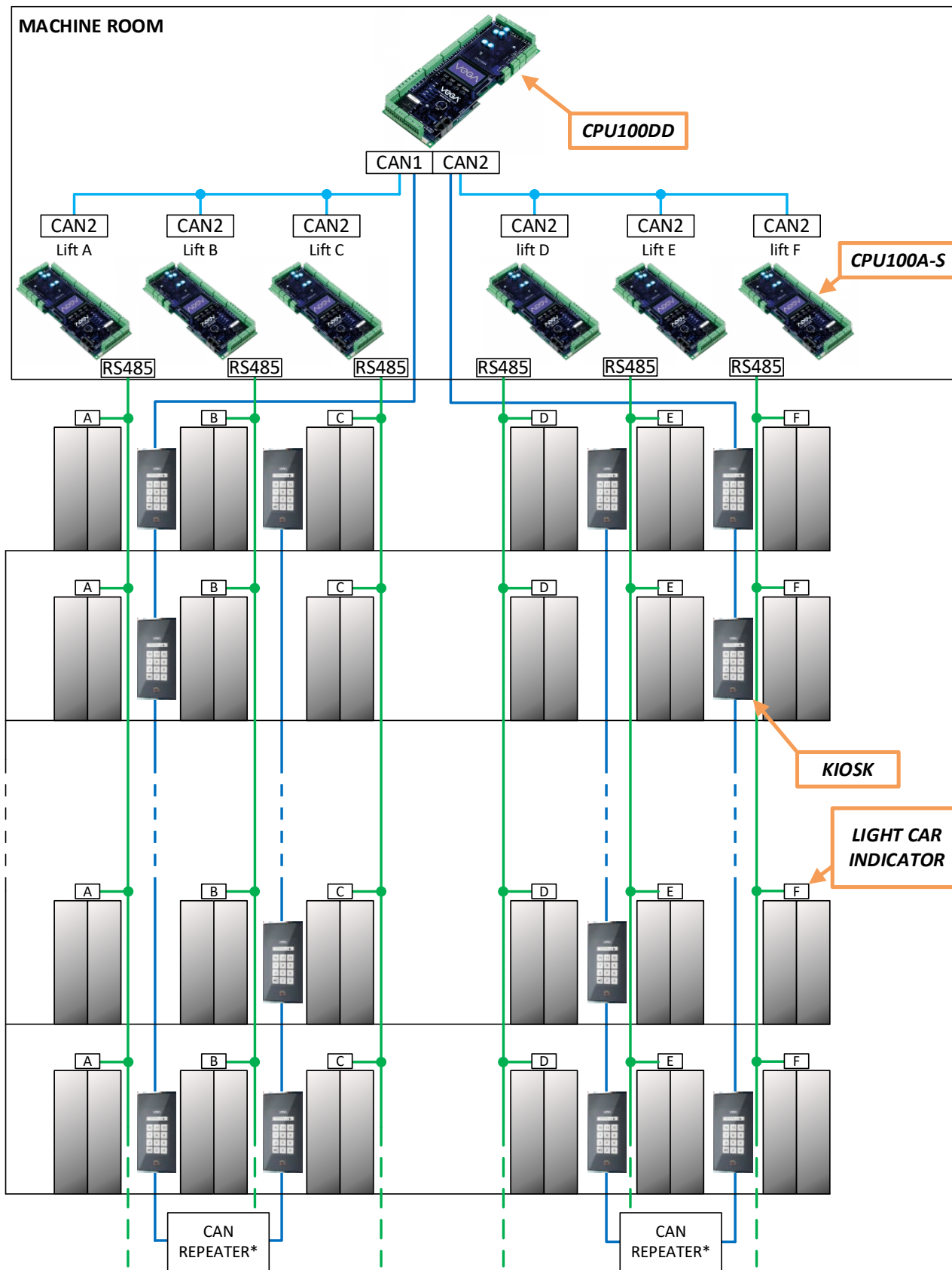
The system is made up of a CPU100DD board which manages and coordinates N elevators with a CPU100A-S control board (up to 8).

To make calls, there will be KIOSK touchscreen terminals, which will record them and indicate the assigned cabin to the passenger. Light car indicators will be installed at the floors, near each door, they show the assigned car and the arriving lift.

In the car, the COPs will not have the classic button panel for calls, they will instead be equipped with displays that show the position, the direction arrow, the next stop and in the case of large displays (15" or 22") the list of reservations in progress.

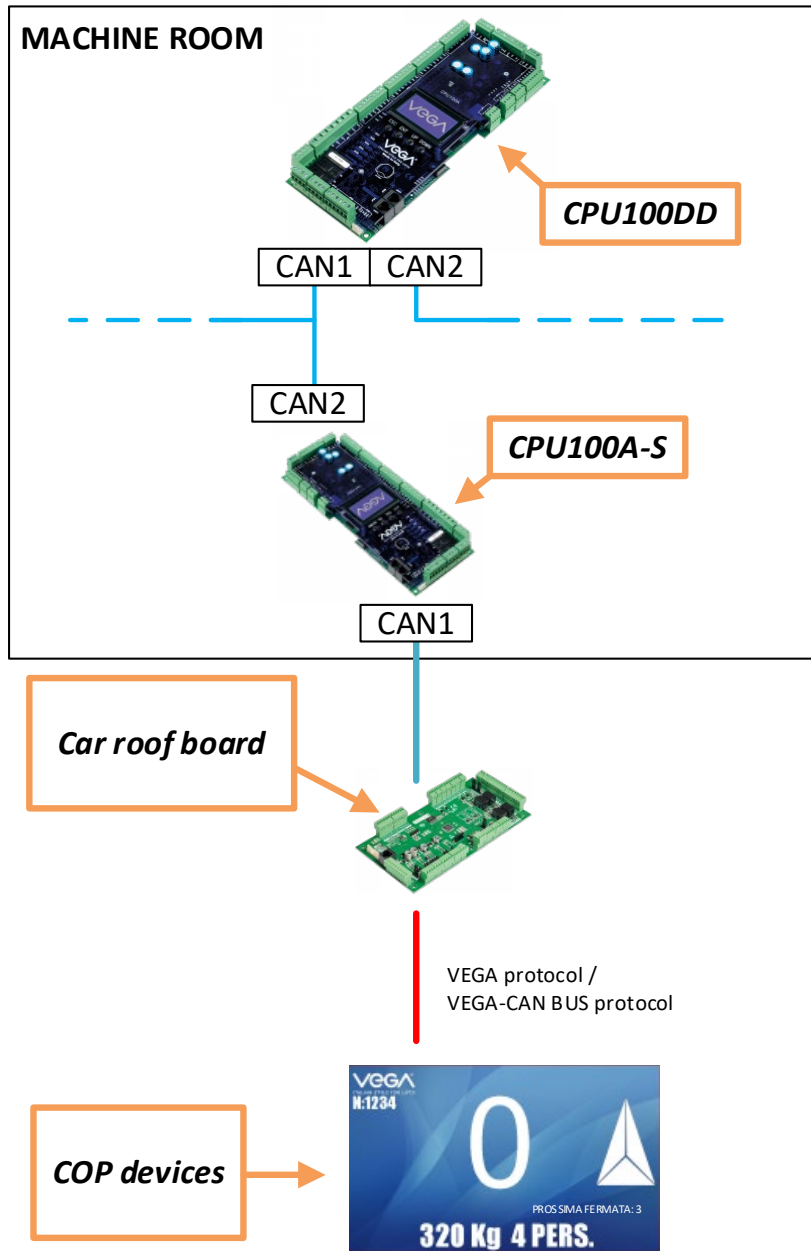
The COPs may be equipped with push-button panels for special operation, such as the firefighter's operation (mechanical push-button panel) or the service operation (mechanical push-button panel or touchscreen).

**FLOORS LINES TYPICAL CONFIGURATION**



\*Device provided only in case of very long lines

**CAR LINE TYPICAL CONFIGURATION**



## 2 KIOSK

Available in three versions, Tower, angled wall-mounted and flush wall-mounted, the Kiosk is equipped with a fully programmable 10" touchscreen, both for the call window and for the elevator assignment windows.

This allows for a decidedly more attractive and easier to use interface than the classic ten-digit numeric keypad.



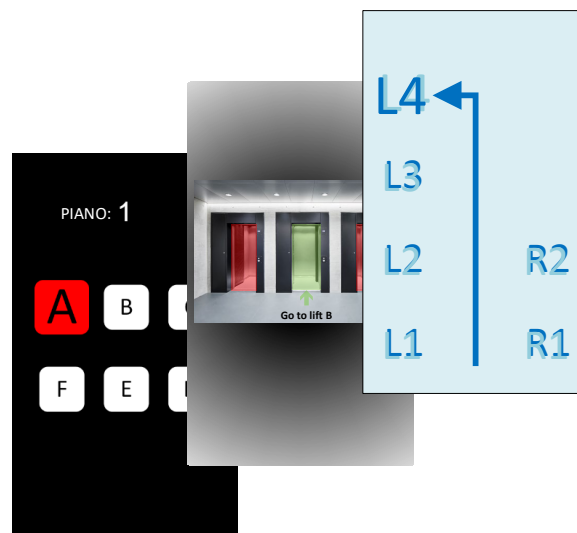
The classic functionality of the Kiosk requires the user to choose the destination floor by pressing on the screen in what is called the calls windows and receiving as a response on the screen the indication of the elevator that has been assigned to him by the Destiny system.

From a functional point of view, it will be appropriate for the number of Kiosks installed on a given floor to be proportional to the traffic on the floor itself; therefore, there will usually be more devices in building access areas than on less frequented floors.

### Examples of calls windows



### Examples of car assignment windows



Scan the QR code to watch a video that shows how it works.



### Accessibility mode

On the Dispatch there is a raised ISA button with braille indication, pressing this button activates the accessibility mode.

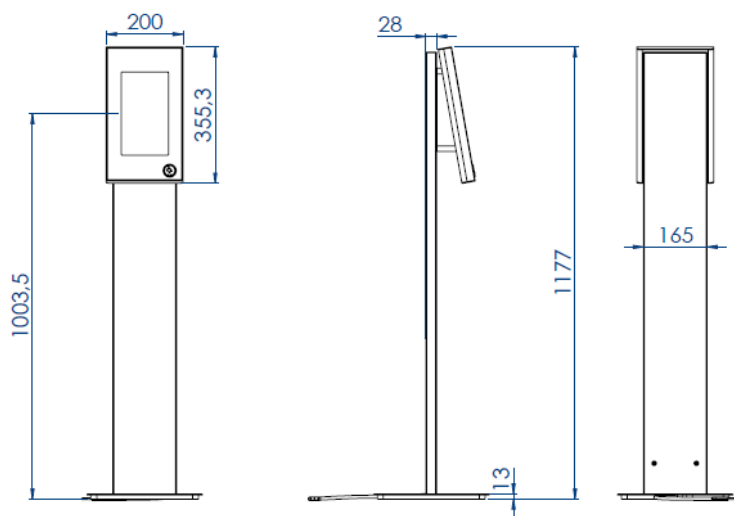
The device explains how the procedure works with a phrase like “Press the button to select the destination” and then begins to list all the available stops, until the user presses the button, at which point the call is recorded and the user is informed, again via an audio message, about the assigned lift and possibly also its location.

All audio messages associated with the procedure are customizable.



Scan the QR code to watch a video that shows how it works.

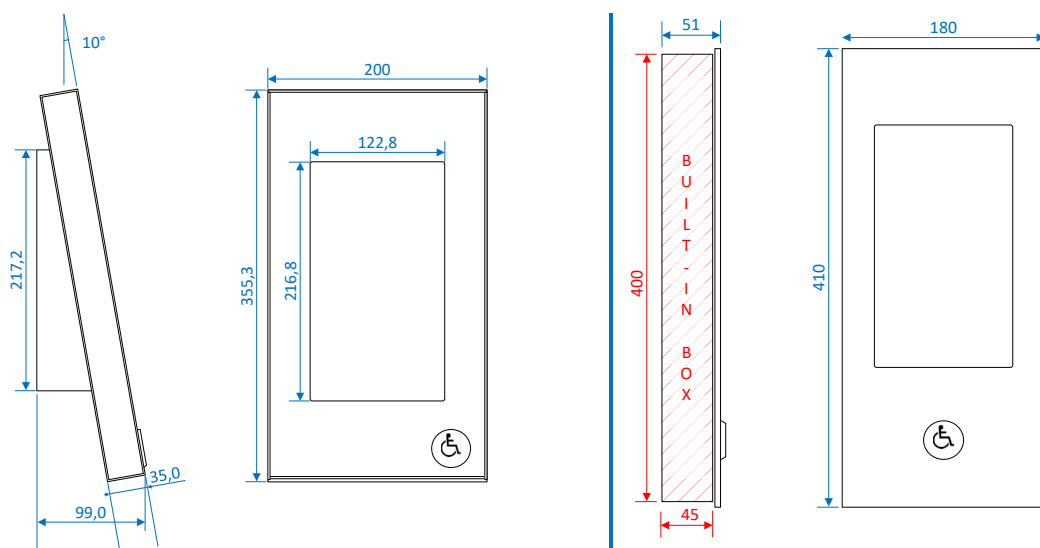
### Kiosk tower, dimensions (mm)



Kiosk angled wall-mounted, dimensions (mm)

Kiosk flush wall-mounted, dimensions (mm)

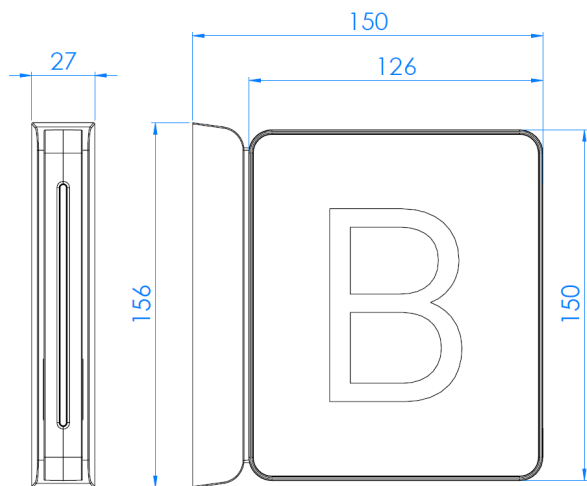
Destiny system



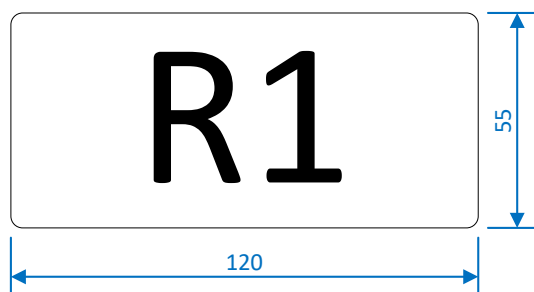
### 3 Light car indicators

Fundamental for visually indicating to the user the assigned lift and the incoming lifts, the light indicators can be installed as devices above the door flush with the wall, or as flag-shaped devices. They are installed on each floor and the choice between one or the other device is determined by the position of the Kiosks in relation to the lift doors position.

Flag-shaped indicator, dimensions (mm)



Flush indicator, dimensions (mm)



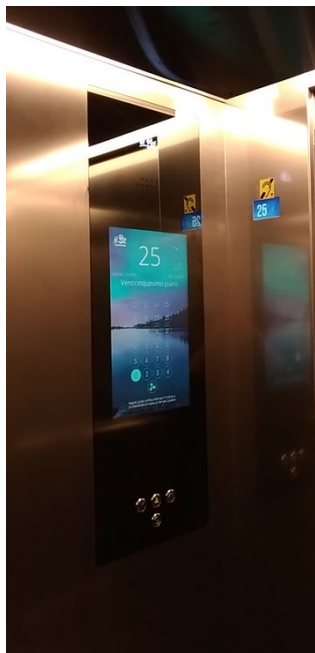
Scan the QR code to watch a video that shows how it works.

## 4 COP

In the case of the *Destiny system*, as for all destination dispatching systems, it will not be possible to make calls from the cabin during normal operation; so in this case the role of the COP is essentially limited to indicator functions: position, direction arrows.

If the COPs are equipped with a large display (TFT22" or TFT15") the list of active reservations will also be displayed on the screen, while if the display is smaller the additional information will only be the next stop. For special operations such as firefighter operation and service operation it will be possible to equip the COP with a mechanical button panel or touchscreen if you choose the solution with TFT22" or TFT15" display.

COP with 22" touchscreen display



COP with hidden mechanical button panel



## 5 RFID reader option

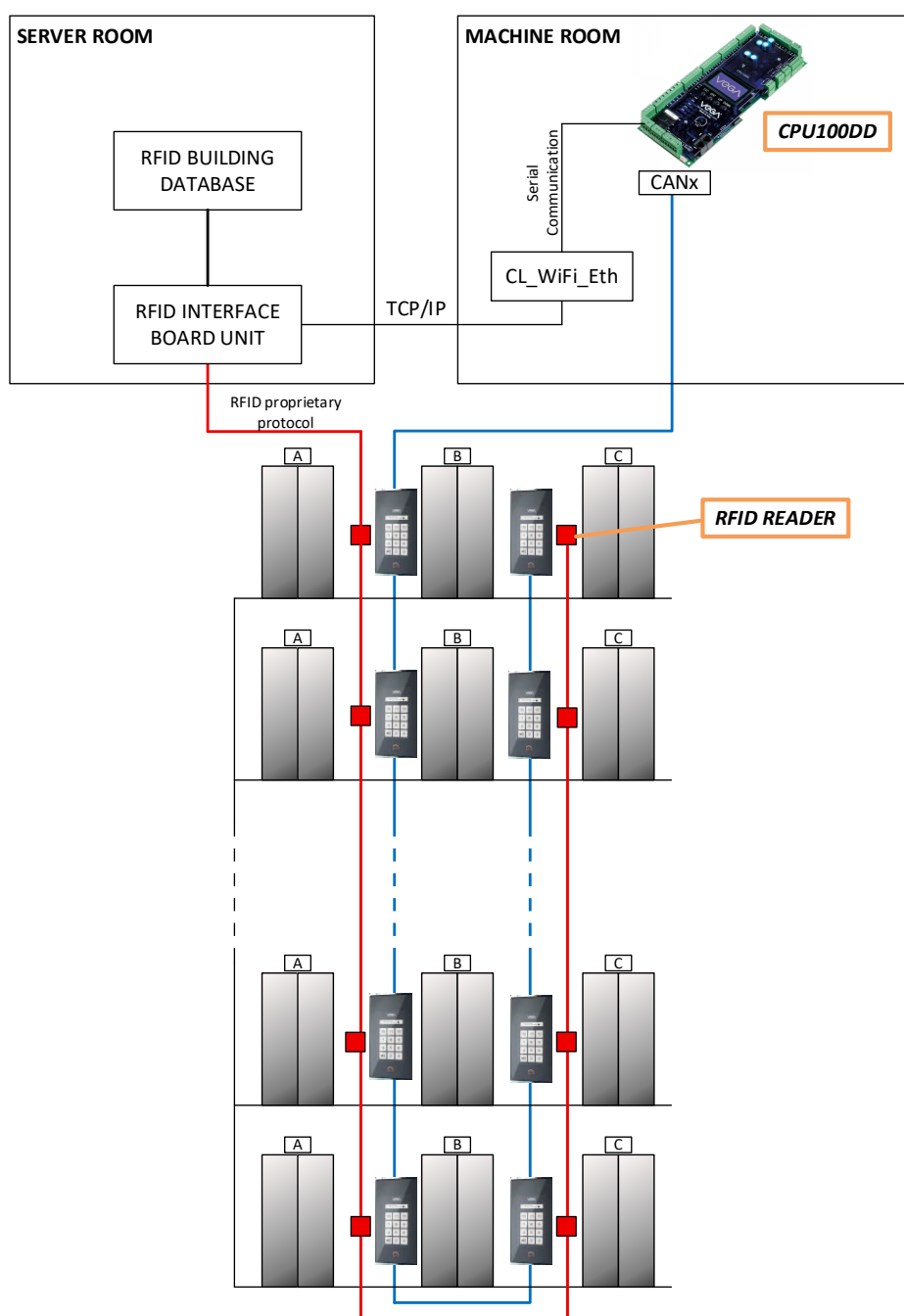


In this chapter we're showing the system capability (that has to be defined and developed case by case).  
Any alternative options must be evaluated with VEGA Technical dptm.

Destiny system isn't provided of an its own RFID reader for a simple reason: this kind of application is generally used in high rise building where a RFID already exists.

VEGA offers his capability to adapt Destiny system to the RFID building system.

Here below an example:



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## Destiny system

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Imagine an hotel application: all the cards will be registered in the hall, and the permissions will be stored in the RFID database. All the RFID communicates (through proprietary serial protocol) to some interface board, and this one communicates to this database.

Every time someone passes a card, the reader send the ID of the card to the database, and this one shows all the allowed floors. Sending the table of all the allowed floors to our CPU100DD (in the example we showed TCP/IP protocol, but it could be something else), Destiny system will be capable to show to the user only the allowed floors.

In this application we showed the case of a RFID system fully serial, but we could have the possibility to have a parallel system too.

In this application, we expect that each reader at landing has a parallel interface board that could activate some digital outputs to show the allowed (or inhibited floors). Thanks to the on-board parallel input of TFT10", we could be able to show the map of the allowed floors only.





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