

COSEC VEGA CONTROLLER

Quick Start



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Know Your COSEC Vega Controller

Fig.1. Front View

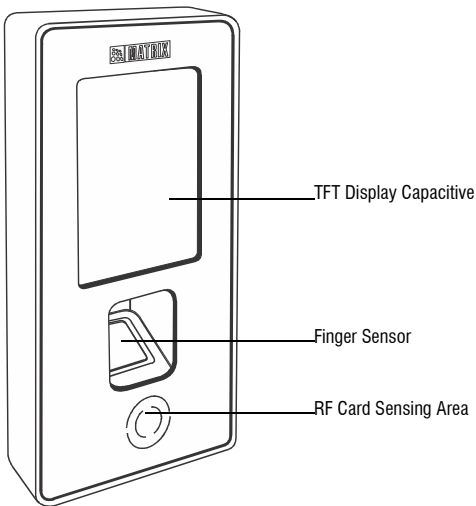
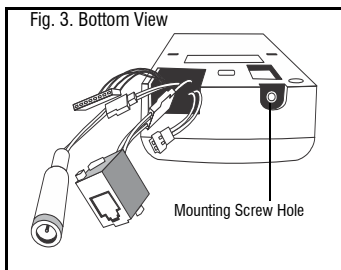
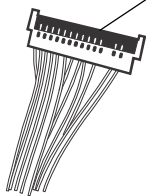
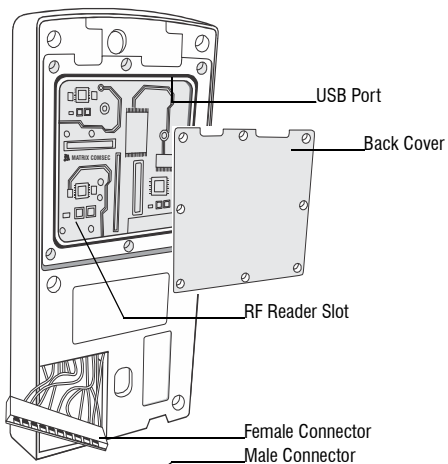


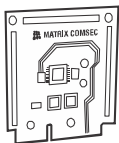
Fig.2. Back View



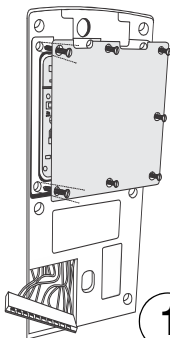
Inserting the RF Reader Module

1. Remove the back cover of your device by removing all screws as shown.

2. Hold the RF Reader Module with the smooth surface towards you, and the narrower end facing down.



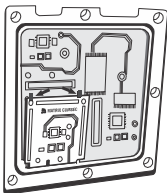
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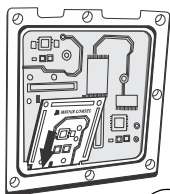
1

3. Lower the module in this position into the RF Reader Slot.

4. Press the free end of the module inwards with your fingertips to lock it in place.



4



3

5. Replace the back cover.

Pre-installation Information

What Your Package Contains

- COSEC Vega Controller Unit
- Mounting Plate with captive screw M 3/6
- Power Adapter 12VDC, 2A
- Two Screws M 5/25
- Two Screw Grips
- Power Supply Cable (with DC jack)
- Exit Switch Cable
- EM Lock Cable
- Ethernet Cable (with RJ45 Plug)
- Auxiliary I/O Cable
- External Reader Cable
- Quick Start
- Warranty Card

Things Needed For Installation

- A power hand drill
- A wire stripper
- A screw driver set
- Insulation tape
- Access to the COSEC Server Application to configure COSEC Vega Controller on the Server
- A stand-alone computer with a Web browser to change the network settings of COSEC Vega Controller.

Preparation For Installation

Follow these steps to prepare for installation:

- Unpack the COSEC Vega Controller and check your package contents.
- Select a Location. It must be a flat surface such as a wall, close to the access point (door).
- You can mount the COSEC Vega Controller on a wall surface either with surface wiring or concealed wiring, using the Mounting Plate provided in your package (See *Installing the Device*). Concealed wiring is recommended.
- Recommended height from ground level: Upto 4.5 feet.

Pre-installation Safety Instructions

Do not install the device:

- On unstable surfaces.
- In very hot or cold environment temperatures
- Near heating/airconditioning equipment
- In direct sunlight
- Under direct light of incandescent or halogen lamps
- Near infra-red radiation emitting equipment
- Where ferromagnetic field or noise is induced
- Where static is created, such as desks made of plastic, carpets
- Near volatile inflammable materials or inflammable goods such as drapes
- Where volatile gas and/or inflammable gas is created
- Where corrosive chemicals are present or fumes are generated



WARNING

- Installation and servicing should be done only by a qualified technician.
- There are no user-serviceable parts inside.
- Opening or removing the device cover may result in electric shock or exposure to other hazards.
- Use this product only for the purpose for which it was designed.

Installing the Device

Follow the steps to start installing the COSEC Vega Controller:

Step 1

Fixing the Mounting Plate

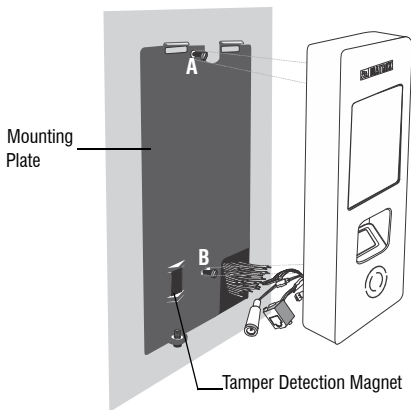


Fig. 4. Fixing the Mounting Plate

- Place the Mounting Plate on the installation surface.
- Trace out screw holes on the wall along the holes (A and B) on the Mounting Plate (Figure 4).
- If required, trace out the rectangular opening of the Mounting Plate.

- Remove the Mounting Plate.
- Drill two screw holes along the markings you traced on the wall. Cut out the rectangular hole on the wall.
- Insert the screw grips into the holes you drilled.
- Fix the Mounting Plate on the installation surface with the two supplied screws.

Step 2

Connecting the Cables

- If your wiring is from behind the surface/through an electrical box, first draw out sufficient length of the cables from the rectangular hole you have cut on the mounting surface.
- Make the electrical connections. The connector terminals and their respective wire color code mappings have been illustrated in Figure 5.

Wire Color Code Mapping (CN1-6)

POWER (CN1)			EXIT SWITCH (CN2)		
Terminal		Wire Color	Terminal		Wire Color
1	GND	BLACK	1	EXIT SWITCH	WHITE
2	12V DC IN	RED	2	GND	BLACK
EM LOCK CONN (CN3)			ETHERNET (CN4)		
Terminal		Wire Color	Terminal		Wire Color
1	LOCK TMRP	LIGHT-BLUE	1	COM2	YELLOW
2	LOCK RLY NO	YELLOW	2	COM1	GREEN

Wire Color Code Mapping (CN1-6)

EM LOCK CONN (CN3)		
Terminal		Wire Color
3	LOCK RLY COM	DARK-BROWN
4	LOCK RLY NC	DARK-BLUE
5	GND	BLACK
6	DOOR STS	WHITE
7	GND	BLACK
8	+12V LOCK	RED
AUX I/O CONN (CN5)		
Terminal		Wire Color
1	GND	BLACK
2	AUX IN+	WHITE
3	AUX RLY NO	YELLOW
4	AUX RLY COM	DARK-BROWN
5	AUX RLY NC	DARK-BLUE

ETHERNET (CN4)		
Terminal		Wire Color
3	Rx+	DARK-BLUE
4	Rx -	LIGHT-BLUE
5	Tx+	RED
6	Tx-	LIGHT-BROWN
EXTERNAL READER (CN6)		
Terminal		Wire Color
1	+12V RDR	RED
2	GND	BLACK
3	GREEN LED	ORANGE
4	RED LED	DARK-BROWN
5	STATUS	LIGHT-BROWN
6	ALARM	VIOLET
7	BEEPER	YELLOW

Wire Color Code Mapping (CN1-6)

EXTERNAL READER (CN6)		
Terminal		Wire Color
8	HOLD	DARK-BLUE
9	DATA0	GREEN
10	DATA1	WHITE
11	TMPR/CTRL	LIGHT-BLUE

EXTERNAL READER (CN6)		
Terminal		Wire Color
12	UNUSED	N/A
13	RS232 RX	PINK
14	RS232 TX	GREY
15	UNUSED	N/A

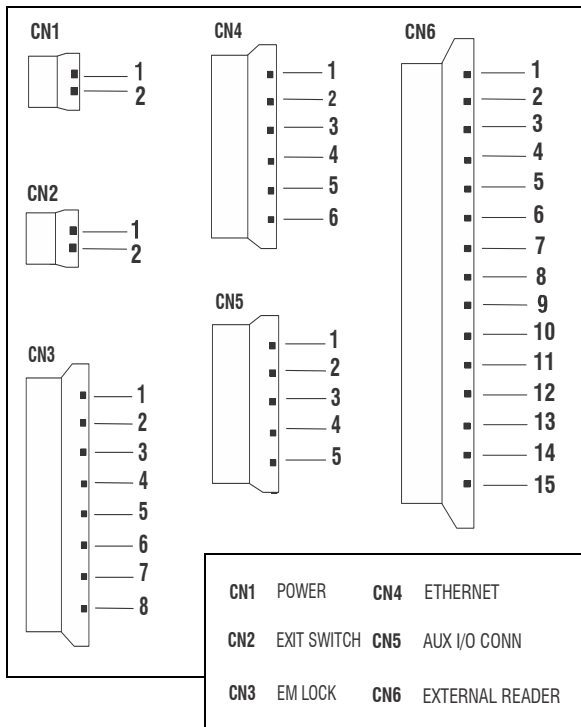


Fig. 5. Connector Terminals (CN1-6)

Power

Connect the DC jack (provided in the package) to the Power connector (CN1). Connect the DC jack to a power outlet using the power adapter.

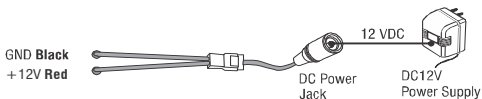


Fig. 6. Power Connection



NOTE:

If connecting the Matrix PSBB-Universal Mains Power Supply (13.8 VDC@2A) with battery backup to COSEC Vega Controller, be sure to maintain correct polarity.



CAUTION!

Do not apply Power to the unit until you have completed all the connections.

Exit Switch

If you are using an exit switch to open the door lock, connect the exit switch cable to the 'EXIT SWITCH' terminal (CN2).

Door Lock

Use the electromagnetic door lock cable to connect a Door Lock to the 'EM LOCK' terminal (CN3).



NOTE:

- Always use a standard hydraulic door closer to ensure that the door closes automatically after an entry or exit. This is to prevent “door open too long” or “door left open” alarms.
- The NO or NC output can operate DC-powered locking devices like electromechanical strikes and magnetic locks. The maximum permitted current is 500 mA @ 12VDC per output.
- If you are using a lock of higher capacity, you must use an external 12/24 VDC power supply, according to the technical specifications of the magnetic lock.

To use the 12VDC of the Door, short the terminals “Lock Relay COM” and “+12V Lock” as shown in Figure 7, before connecting the NC/NO and the GND terminal to the Door Lock.

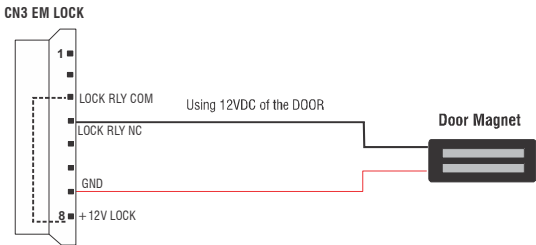


Fig. 7. Connecting a Door Lock

To connect a lock of higher capacity using external power supply, connect the wires as shown in the Figure 8, considering the technical specifications of the magnetic lock.

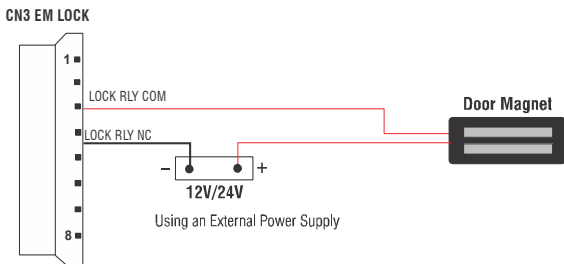


Fig. 8. EM Lock Connection Using External Power Supply



NOTE:

Fig. 7 & 8 represent connections with a Door Lock having a default “Normally Closed” (NC) state.

Ethernet

Connect the Ethernet male connector (with an RJ45 plug on the other end) provided in the package, to the female connector CN4. Connect the Ethernet cable to the RJ45 plug.

Auxiliary Input/Output

If you are connecting an input device such as a sensor for detecting alarm conditions, connect the wire pair from the sensor device to the 'AUX IN+' terminal of the AUXILIARY I/O Cable (CN5).

The Auxiliary output port can be used for activating alarm devices like hooter, energize some devices, control annunciation devices. For connecting an alarm device like a hooter or an annunciation device, connect the Auxiliary output from the door to the appropriate alarm device.

External Reader

COSEC Vega Controller supports external Serial and Wiegand readers. The maximum recommended length of wiring for exit readers is 500 feet.

Connect a Serial or Wiegand Reader to the 'EXTERNAL READER' terminal (CN6) of the Vega Controller using the External Reader Cable provided.



WARNING

Do not leave unused wires with stripped ends free. Seal them with insulation tape.

Step 3

Mounting the Device

After you have completed all the electrical connections, lead all the cables through the rectangular hole into the electrical box recessed in the wall. Attach the COSEC Vega Controller to the mounting plate you fixed on the wall.



NOTE:

If your wiring is not concealed, lead all the cables through the bottom of the device before you attach it to the mounting plate.

Slide the mounting hooks at the back of the door downwards into the respective mounting slots on the mounting plate. Refer Figure 9.

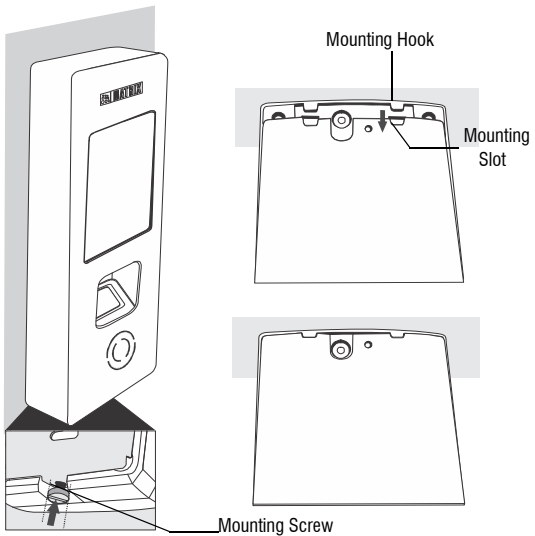


Fig. 9. Mounting the Device on Mounting Plate

Insert the captive mounting screw attached on the mounting plate into the mounting screw hole at the bottom of the device and tighten it. The Vega Controller is now mounted successfully.








Step 4 **Powering On the Device**


- Apply power to the COSEC Vega Controller and wait for the reboot cycle to complete.
- At power on, the Matrix Security Solutions logo will appear on the display accompanied by a long beep.
- Once the reboot cycle completes, the home screen will appear on the display as shown.








Fig. 10. Home Screen

Network Status Indications






ICON	LABEL	COLOR	DESCRIPTION
	LAN	Grey	Ethernet Connection ON
	Wi-Fi	Grey	Wi-Fi Connection available, but not connected to Wi-Fi Hotspot.
	Wi-Fi	Green	Wi-Fi Connection available, and connected to Wi-Fi Hotspot
	Server	Grey	Door is not connected to the COSEC server.
	Server	Green	Door is connected to the COSEC server.
	Modem	Grey	Broadband connection available, but not connected to the Service Provider.
	Modem	Green	Broadband connection available, and connected to the Service Provider.

ICON	LABEL	COLOR	DESCRIPTION
	USB	Grey	USB device plugged.





Status Indications for Events in Normal State

ICON	LABEL	DESCRIPTION
	Late In	Late In Activated
	Early Out	Early Out Activated
	Door Lock	Door Lock Activated
	Door Unlock	Door Unlock Activated
	Alarm	Alarm Activated





Other Status Indications (in Panel Door Mode)

ICON	LABEL	DESCRIPTION
	Downloading	Data transfer such as firmware, finger templates etc.
	DND Mode	“Do Not Disturb” Mode activated.
	Dead Man	“Dead Man” feature activated.
	Degrade Mode	Panel Door active on Degrade Mode.
	Network Fault	Failure to communicate with Panel device.






Home Screen Options



ICON	LABEL	DESCRIPTION
	Going In	Special Time and Attendance options. Allows users to mark their entry.
	PIN	Keypad for PIN Authentication.
	Menu	Leads to the Main Menu.
	Going Out	Special Time and Attendance option. Allows users to mark their exit.

Main Menu



ICON	LABEL	DESCRIPTION
	Admin	Access Admin menu options.
	HRD	Access HRD menu options.
	e-Canteen	Access e-Canteen menu options.
	About Device	View device-related information.



Admin Menu

ICON	LABEL	DESCRIPTION
	Settings	Set Date and Time, Modify Display Settings, Change LAN, Server, Wi-Fi and Modem settings, Change Admin password.
	Door Control	Lock, Unlock the door and set the door in normal mode.
	Enrollment	Enroll users and special function cards.
	Late In Start	Activate and deactivate Late In
	Early Out Start	Activate and deactivate Early Out



ICON	LABEL	DESCRIPTION
	Backup and Update	Upgrade firmware, download event logs, and upload configurations via USB.
	Clear Alarm	Clear an existing alarm

HRD Menu

ICON	LABEL	DESCRIPTION
	Enrollment	Enroll users and special function cards.
	Late In Start	Activate and deactivate Late In

ICON	LABEL	DESCRIPTION
	Early Out Start	Activate and deactivate Early Out
	Password	Change HR Password

e-Canteen

ICON	LABEL	DESCRIPTION
	Manage e-Canteen	Mark items as “Sold-out” or “Available” and print the last bill.
	View Balance	View balance on pre-paid card.

Getting Started

Once the COSEC Vega Controller is in a powered-on state, follow these steps to start using it.

Step 1

Connecting the Device to a Network

The COSEC Vega Controller can be connected to a network over Ethernet, Wi-Fi and Mobile Broadband. The connection can be set up in one of the following ways:

- From the Door display
- From the Door Webpage

The COSEC Vega Controller is pre-configured with a default IP address and Subnet Mask.

- Default IP Address: 192.168.50.1
- Default Subnet Mask: 255.255.255.0

The Door IP address can be changed if required. Ask your network administrator for an IP Address for the Door. Also ask your network administrator, if you will need to change the Subnet Mask, or configure the Gateway IP Address and DNS.

Configuring Network Settings from the DOOR Display

- Tap the **Menu** icon on the home screen.
- Tap **Admin**.
- Use the keypad to enter the Admin Password (default: **1234**).
- Tap **OK**.
- On the Admin screen, tap **Settings**, and then tap LAN.
- Tap the **Door IP Address** field, the keypad will appear.
- Use the keypad to enter the IP Address you want to assign to the door.
- Tap **Save**.
- If required, you may change the Subnet Mask and enter the Gateway IP Address, configure the DNS. Tap on each field to invoke the keypad and tap **Save** to apply.
- On the Admin screen, tap **Settings**, and then tap **LAN**.
- Tap the **Door IP Address** field, the keypad will appear.
- Use the keypad to enter the IP Address you want to assign to the door.
- Tap **Save**.
- If required, you may change the **Subnet Mask** and enter the **Gateway IP Address**, configure the **DNS**. Tap on each field to invoke the keypad and tap **Save** to apply changes.
- To configure Server settings, tap **Back** to return to **Settings**.
- In **Settings**, tap **Server**.
- In **Connection via**, select **IP Address/Host Name**.
- Enter the **IP Address** of the COSEC server using the keypad.
- Tap **Save**.

You can go back one level on the menu by tapping the **Back** icon. To return to return to home screen, tap the **Home** icon.

You will need the MAC Address to connect the device to the COSEC monitoring computer. To know the MAC Address,

- Tap **Menu** on the home screen.
- Tap **About Device**.
- Make note of the MAC Address.

Configuring Network Settings from the DOOR Web page

- Open a web browser window on your computer/laptop.
- Enter the IP Address of the Door (default: **http://192.168.50.1**), in the address bar of the browser and press the Enter key on your computer keyboard.
- The COSEC Vega Controller Web page will open.
- In **User Level**, select **Admin**.
- In **Login Password**, type the default admin password **1234**, and then click **Login**.

COSEC VEGA

User Level	<input type="text" value="Admin"/>
Login Password	<input type="password" value="••••"/> <input type="button" value="Login"/>

- Connect a stand-alone computer/laptop to the Ethernet port of COSEC Vega Controller.
- On the welcome page, click the **Settings** link on the left navigation bar.
- Select **LAN Settings**.

- In **LAN Settings**, enter the **IP Address** to be assigned to the COSEC Vega Controller.

The screenshot shows the MATRIX COSEC VEGA web interface. On the left is a navigation menu with 'Settings' expanded to show 'LAN Settings' selected. Below it are 'Users', 'Manage', 'Personalize', and 'View'. The main content area is titled 'LAN Settings' and contains a form with the following fields:

IP Address	192.168.103.119
Subnet Mask	255.255.255.0
Default Gateway	192.168.103.1
Preferred DNS	8.8.8.8
Alternate DNS	
MAC Address	00:1b:09:ab:dc:3d

At the bottom of the form are three buttons: 'Submit' (with a checkmark icon), 'Default' (with a globe icon), and 'Refresh' (with a plus icon).

- If required, change the **Subnet Mask**, configure the **Gateway IP Address**, the **Preferred** and **Alternate DNS**.
- Note down the MAC address of COSEC Vega Controller. You will need it to connect the device to the COSEC Server.
- Click **Submit** to save your settings.
- Under **Settings**, select **Server Settings**.
- Under **Server Communication**, select Network Interface as **Ethernet**. Other network interfaces available for communication are Wi-Fi and Mobile Broadband.
- Under **Ethernet Interface**, enter **the IP Address** of the COSEC Server.

Settings

- ↳ LAN Settings
- ↳ Wi-Fi Settings
- ↳ Mobile Broadband Settings
- ↳ **Server Settings**
- ↳ CCC Settings
- ↳ Date-Time Settings

Users
Manage
Personalize
View
Server Settings
Server Communication

Connectivity	Online
---------------------	--------

Network Interface	Ethernet
--------------------------	----------

2nd Interface Option	None
-----------------------------	------

3rd Interface Option	None
-----------------------------	------

Ethernet Interface

IP Address	<input checked="" type="radio"/>	<input type="text" value="192.168.103.47"/>
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Host Name	<input type="radio"/>	<input type="text"/>
------------------	-----------------------	----------------------

Port	<input type="text" value="11000"/>
-------------	------------------------------------

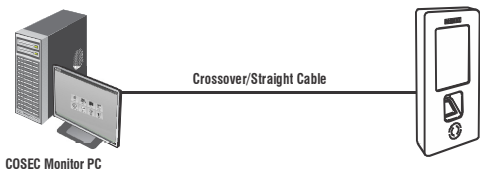
Wi-Fi Interface
Broadband Interface
Test Network Connection

<input checked="" type="button" value="Submit"/>	<input type="button" value="Default"/>	<input type="button" value="Refresh"/>
--------------------------------------------------	----------------------------------------	----------------------------------------

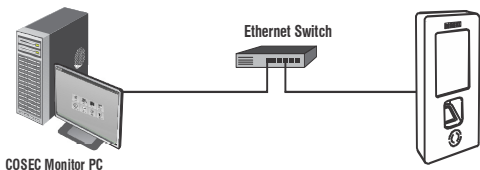
- If you are using Wi-Fi as communication interface, configure **Wi-Fi Network Settings** and **Wi-Fi Access Point Settings**.
- If you are using Mobile Broadband, configure **Broadband Interface** settings.
- Click the **Submit** button to save your settings.

Connecting to the Monitoring Computer

You can connect the COSEC Vega Controller directly to the monitoring computer using an Ethernet Crossover/Straight cable.



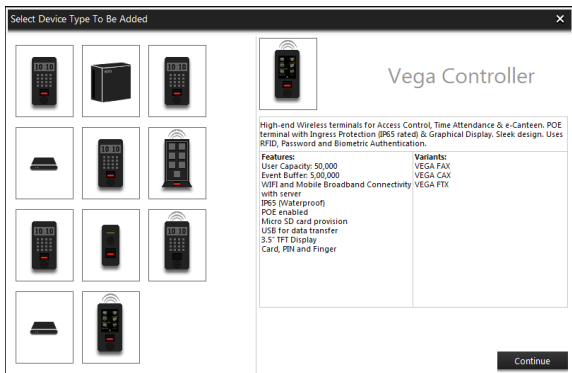
You can also connect the COSEC Vega Controller and the monitoring computer to an Ethernet Switch or hub using standard straight-through Ethernet cables.



Step 2

Configuring the Device on the COSEC Server

- Open the COSEC Server application on a browser.
- Go to **Devices > Device List > Click the New icon.**
- On the **Select Device Type To Be Added** window, select **Vega Controller.**



- Click the **Continue** button. The **Device Configuration** window will open.
- Go to **Profile > Basic**.
- Enter the **Name** and **MAC Address** of the COSEC Vega Controller.
- Click **Save**
- After you have successfully added the door, the door will go online. Network connection status will appear on the status bar of the COSEC Vega Controller display.



NOTE:

This procedure is applicable only for configuration of Vega Controller as a Direct Door. For configuring Vega Controller as a Panel Door or for additional details on Door configuration on COSEC Server, refer to the 'COSEC Manual' provided in the COSEC software installation kit or use the **Help** option provided on the COSEC application user interface.

To access **Help** for the configuration parameters of a window, click the '?' icon that appears on the top right of the window.

Step 3

Creating Users

- Open the COSEC Server application on a browser.
- Go to **Users > User List** > Click the **New** icon.
- On the **User Configuration** page, fill the necessary user details.
- Click **Save** to save the user on the COSEC database.


Step 4

Assigning Users

- On the COSEC Server application, go to **Devices > Device List**
- Select the COSEC Vega Controller on which users are to be assigned.
- On the **Device Configuration** page, go to **Additional > Assigned Users**
- Select and add the users to be assigned.

Device Configuration

← + ✎ 🗑️ 🖨️ ☰



33
Vega_Door
Vega Controller
5/50000
Active

Profile

Advanced

Features

Others

e-Canteen

Daylight Saving Assigned Users

Add Users

ID	Name
00017	Manish Singh
00025	Shardul Shah
00039	Aneesh K Mohan
0014	Jinu Sam

Save

- Click **Save** to save your settings.

Step 5

Enabling Special Functions

- Select the COSEC Vega Controller on the COSEC Server application.
- Go to **Devices > Device Configuration > Others > Enrollment**
- Enable **Enrollment Through Special Function** and specify the **Enrollment Mode**.
- Now, go to **Devices > Device Configuration > Special Functions**
- Enable the functions that are to be activated for the COSEC Vega Controller.
- Click **Save** to save your settings.

Step 6**Enrolling Users**

- Ask your users to appear at the site where COSEC Vega Controller is installed.
- On the homescreen of the device, tap the **Menu** icon.
- Tap **HRD**.
- Tap the **Password** field to invoke the numeric keypad.
- Enter the HR Password and tap OK. Default HR Password: 1111
- Tap **Enrollment**, and then tap **Enroll User**.
- Tap the **User ID** field to invoke the keypad.
- Enter the unique User ID for the user to be enrolled.
- Enter the **User Name**, select the **Enrollment Type**, and specify the number of credentials to be enrolled.
- Tap **Enroll**.
- Ask the user to place their finger on the sensor or show their read-only card, as per the enrollment type selected.

**NOTE:**

- Enrollment can also be initiated from COSEC Server Application. The use of an Enrollment Station is recommended in the event of the COSEC Server being installed at an inconvenient distance from the COSEC Door location.
- For fingerprint enrollment, no. of templates per finger can be configured using the COSEC Server application.
- Enrollment of users can also be done from the **Admin** option on the **Menu**.

Step 7**Other Device Settings**

- Tap **Admin** and enter the **Admin Password**.
- Go to **Settings > Date and Time**
- Set the correct date and time to be displayed on the device.
- Go to **Settings > Display**
- Select a wallpaper of your choice, an analog or digital clock format and the keypad type for user input.
- Go to **Settings > Password**
- Tap the **Confirm Current Password** field to invoke the keypad. Enter the current password.
- Tap **OK**.
- Enter a new password in the **Choose New Password** field.
- Tap **Continue**.
- Re-enter the password in the **Confirm New Password** field.
- Tap **OK** to save the new password.

To change password for HRD login, go to **HRD > Password**

Step 8**Backup and Update**

- Tap **Admin** and enter the **Admin Password**.
- Tap **Backup and Update**.

Restore Configuration

- Copy the configuration you want to upload on the device, from the COSEC Server, on to a USB device.
- Connect the USB device to the COSEC Vega Controllers.
- To restore configuration, go to **Backup and Update > Restore Configuration**

Upgrade Firmware

- Copy the firmware you want to upload on to a USB device from the COSEC Server.
- Connect the USB device to the COSEC Vega Controller.
- To upgrade the firmware on the door, go to **Backup and Update > Upgrade Firmware.**

Write Events

- To download event logs from the Vega Controller, go to **Backup and Update > Write Events.**
- Connect the USB device to the computer on which the COSEC Server is installed.
- To view the event logs, open the COSEC Monitor application.
- On COSEC Monitor, go to **Tools > Data Transfer**
- In **Data Transfer**, select **Download**

Technical Specifications

Specification Parameter	Vega Controller - Product Variants		
	FAX	CAX	FTX
Credential Support	Card, Pin and Finger	Card and PIN	Same as FAX
User Capacity	50,000	Same as FAX	Same as FAX
Template Capacity	9600 (1:N mode), and 1 lakh (1:1 mode)	Same as FAX	Same as FAX
Templates per User	Up to 10 (Single Template per finger mode), and Up to 5 (Dual Template per finger mode)	Same as FAX	Same as FAX
Cards per User	Up to 2	Same as FAX	Same as FAX
Sensor	Suprema SFM 3030 module and OC-4 Sensor	Same as FAX	Same as FAX
Display	3.5" TFT Display with Capacitive Touch Panel	Same as FAX	Same as FAX
Verification Method	1:1, and 1:N	Same as FAX	Same as FAX

Specification Parameter	Vega Controller - Product Variants		
	FAX	CAX	FTX
Type of Card	EM Prox, HID i-class & Mifare and UHF card	Same as FAX	Same as FAX
USB	1 USB Port (for Data Transfer and for 2G-3G Dongle)	Same as FAX	Same as FAX
Communication Port	Ethernet, Wi-Fi, Mobile Broadband (2G-3G)	Same as FAX	Same as FAX
Events Buffer	5,00,000	Same as FAX	Same as FAX
Communication Speed	10/100 Mbps on Ethernet	Same as FAX	Same as FAX
Reader Types	1 Port for Card Reader / Finger Reader / Card Finger Combo Reader / UHF Reader	1 Port for Card Reader /UHF Reader	No
Reader Interface Types	RS-232 and Wiegand	RS-232 and Wiegand	No
Reader Power Output	Internal 12 VDC @ 0.2 A or External	Internal 12 VDC @ 0.2 A or External	No
Exit Switch Port	Yes	Same as FAX	Same as FAX

Specification Parameter	Vega Controller - Product Variants		
	FAX	CAX	FTX
Door Status Sense	Programmable NO, NC, Supervised	No	No
Door Lock Relay	Relay SPDT, Form C, 1A @ 30 VDC	No	No
Door Lock Power	Internal 12 VDC @ 0.5 A or External	No	No
Auxiliary Input Ports	Programmable NO, NC, Supervised	No	No
Auxiliary Outputs Relay	Relay SPDT, Form C, 1A @ 30 VDC	No	No
Input Power	12 VDC @ 2 A	Same as FAX	Same as FAX
Tamper Detection	Yes	Same as FAX	Same as FAX
Buzzer	Yes	Same as FAX	Same as FAX
Micro SD Card	Yes	Same as FAX	Same as FAX
CPU	800 MHz ARM Cortex A8 based Processor	Same as FAX	Same as FAX
Flash Memory	256 MB Flash	Same as FAX	Same as FAX
RAM	512 MB DDR3 RAM	Same as FAX	Same as FAX

Specification Parameter	Vega Controller - Product Variants		
	FAX	CAX	FTX
Built In POE	Yes	Same as FAX	Same as FAX
Built in Wi-Fi	Yes	Same as FAX	Same as FAX
Backup Battery	No Internal battery backup, External Through PSBB	Same as FAX	Same as FAX
Operating Temperatures	0 °C to + 50 °C	Same as FAX	Same as FAX
Dimensions (H x W x D)	185mm x 90mm x 37mm	Same as FAX	Same as FAX



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