COSEC CENTRA: Fire Alarm Integration with Door Controllers

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In many applications, safety protocol or local laws require access control to open all the doors when a fire is detected. On the other hand, Access Control and Fire Alarm are usually two separate systems. Therefore, there is a need to link the Fire Alarm and Access Control systems.

All Fire Alarm Systems offer an AUX-OUT port. When a Fire Alarm System detects a fire, it activates this AUX-OUT relay.

COSEC Door Controllers offers an AUX-IN port to connect with fire-alarm systems, smoke detectors, digital sensors, cameras, video recorders, etc. You need to connect this fire alarm system output to COSEC Controllers' AUX-IN port.

A COSEC Controller can respond to a trigger on its AUX-IN input and open its door. The Door Controller also sends this trigger to the COSEC CENTRA. You can use the IO Linking Program to instruct COSEC CENTRA to send commands to other doors to open their respective doors.

This document describes steps to integrate Matrix COSEC Door Controllers with a Fire Alarms System and automatically open doors in case of fire.

Basic Requirements:

COSEC Door Controllers having AUX ports.
 Following COSEC Controllers support AUX ports:
 COSEC VEGA, DOOR PVR, DOOR FOP V3, DOOR FMX, and ARC DCXXX.

2. COSEC CENTRA software installed on a server or a PC with COSEC License Dongle



3. Access Control Management (ACM) License

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- It is assumed a Fire Alarm System is already installed.
- COSEC Door Controllers must be connected with the COSEC CENTRA as Direct Doors.
- Usually, the Door Controller at the main entrance of the premise is directly linked to the Fire Panel.
- All other Door Controllers are in contact with the main Door Controller over LAN/WAN.
- In case of a trigger from the fire alarm system, the main door controller gets the trigger. It responds to the trigger. It also triggers all other connected door controllers to respond.

Integration:

Follow the below steps to integrate the Fire Alarm Panel with Direct Door Controller.

- Connect Fire Alarm output with the AUX-IN port of the Door Controller as shown in the below figure. In this example, COSEC DOOR FOP.
- Other door controllers are connected with the main door controller over LAN/WAN.



- As shown the output from the Fire Panel is connected to the AUX-IN of the main door controller.
- In the case of fire, the Panel will trigger its output.
- The Door Controller will sense this trigger input.
- As the first response, the main Door Controller shall unlock its door. In addition, it must trigger the other Door Controllers to unlock those doors.
- This is achieved by IO Linking AUX-IN.

COSEC CENTRA Configuration:

1. Auxiliary Input Configuration

• Login to COSEC Web with a User ID and Password.



• Select the **Devices** Module from the dashboard.

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• Select the **Device List**.

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• Select the main Door Controller from the list to which the Fire Panel System is connected.

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• Select the Input/Output section on the Device Configuration page.

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- Door Controller can sense two states of a door lock by default.
 - \circ $\,$ NO: Normally Open $\,$
 - NC: Normally Closed
- Any change in the door's normal state will trigger the system for output.
- For this, you can configure the Door Sense.

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• Configure Auxiliary Input for the Fire Alarm Panel connected, to sense and give Input to the controller.

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• Check **Enable** flag to enable the Auxiliary Input on the Controller.

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- Supervised: Check this box to enable the door for four-state monitoring.
- The Door Controller will monitor the door for all the four states:
 - **NO**: Normally Open
 - NC: Normally Closed
 - **Door fault**: If there is any fault in the door controller connectivity.
 - **Door disconnection**: If the door is not communicating with the server.

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- Here, we are not selecting the **Supervised** checkbox.
- Sense Type: Select the sense type from the drop-down list.

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- **Debounce Time (Sec)**: Enter the debounce time in seconds.
- CENTRA will sense the input trigger and will generate the output after the debounce time configured here.

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• Click on the Save icon.

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2. Linking

IO Linking enables us to define how an event at the input port will trigger the system and will generate the output on the door controller.

• Select the Linking section.

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- In this case, the trigger from the Fire Panel is an Input for COSEC CENTRA.
- We need output on the Door Controllers in the form of unlocking the Door Lock Relay.
- Select the Linking option **Aux Input** as Input.
- Select Output as **Door Relay**.

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• Click on the **Edit** icon to configure the linking program.

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• Enter an appropriate **Name** to the linking program.

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• Check the Active flag to activate this linking program.

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• Select the Output Type from the picklist.

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There are four options available:

- 1. Pulse: This type will activate the Relay Output for the given pulse time in seconds.
- 2. Interlock: This type will allow the system to trigger Output as long as the Input signal is applied. After that, it will return to its normal state.
- 3. Latch: This type will allow the system to generate continuous output until a manual reset is applied from COSEC Monitor.
- 4. Toggle: This type will allow the Relay Output to reverse its state on receiving the specific Input Signal.
- We will select **Latch** as Output Type so that the door remains unlocked till it someone manually resets from COSEC CENTRA.

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- **Reset Link**: Tick the box to reset the link automatically after the reset time ends.
- **Reset Time**: Configure the reset time in HH: MM format. After the configured hours or minutes, the controller will stop generating the output.

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- If the reset link is not enabled, the door controller will continuously generate the output until a manual reset is done from COSEC Monitor.
- IO Linking configured to this device can be applied to all supported and connected door controllers.
- Click on the **arrow** icon.

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• A **Supported Devices** window opens.

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• Select the Supported Devices pick-list on which the output must be generated.

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- Select all required Door Controllers.
- Click **Ok**.



• Close the pop-up window after adding all the Door Controllers.

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- COSEC CENTRA shows the total of all the selected Door Controllers.
- You can add up to 255 external Door Controllers in one IO linking.

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• Click on the **Ok** to save the configuration.

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• Click on the **Save** icon to save the entire configuration.

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- This completes the IO Linking configuration.
- Go to the Configuration option.
- Check the Enable flag so that this Device will accept commands from the other Device whose AUX-IN Port is enabled. This is to be done on all the devices which are to be Triggered.

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	Job Costing	Output Wait Time (Sec)	0	
	Assign Users	Accept External IO Linking		
	Identification Server	Enable		
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Whenever the Fire Alarm Panel triggers its output, the main Door Controller will sense this trigger. After the Debounce Time, Aux Relay will change from Normally Closed (NC) to Normally Open (NO) and the door controller will unlock its door.

In addition, the Door Controller will also send this trigger to the COSEC CENTRA to trigger the IO Linking program. COSEC CENTRA sends commands to all the Door Controllers to open their respective doors.