

FREQUENTLY ASKED QUESTIONS

COSEC

What
When
Which
Where
How
Who
Why



Date: 13th August, 2015

Version: V1R1

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How to configure IO Linking?

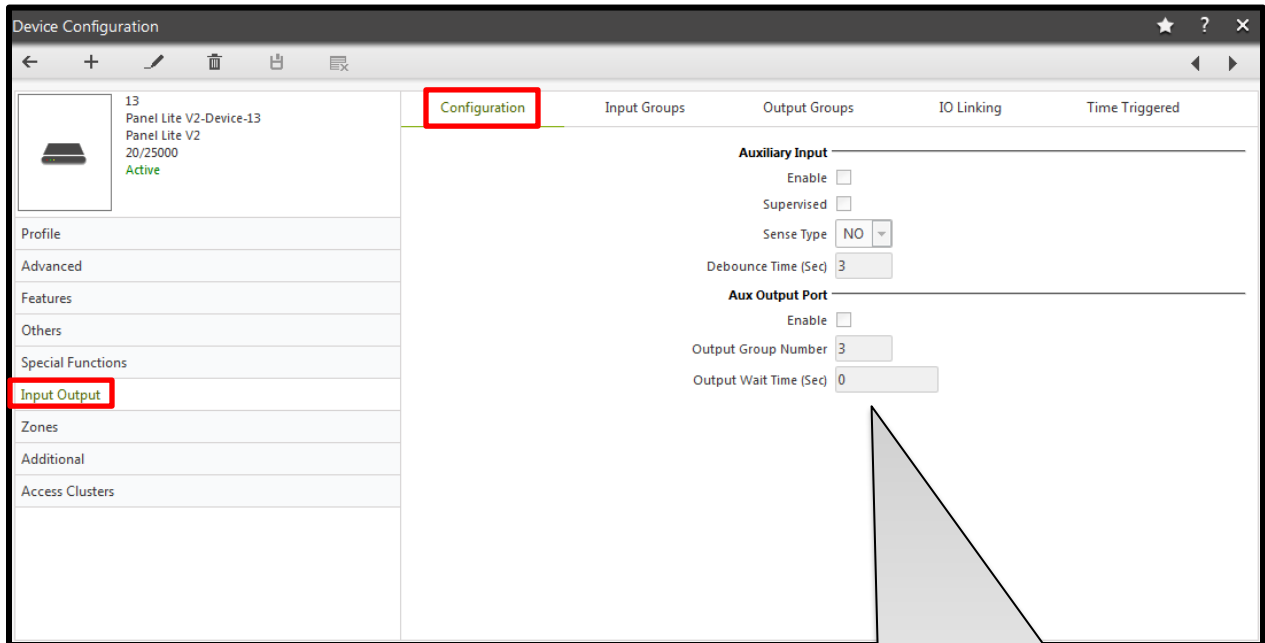
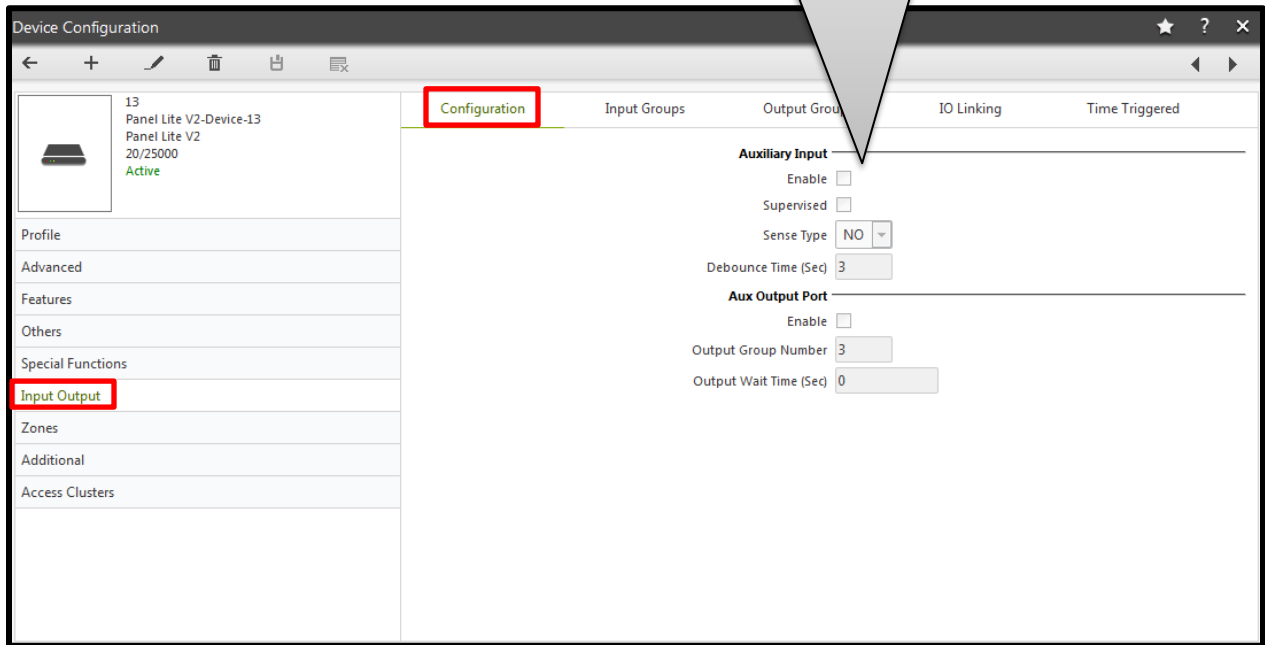
It would be really great if we can integrate cameras and Fire Alarm system with COSEC. Check the possibilities in COSEC and tell me when we are ready to implement



Let me open COSEC Web,
check the configurations
and integration possibilities



Using Auxiliary Input we can sense the output from 3rd party devices like Fire Alarm Panel



We can also connect other 3rd party devices which can be triggered from Panel Lite's Auxiliary Output port like an Alarm which is to be triggered in event of fire

We can configure different input groups over here

Device Configuration

13
Panel Lite V2-Device-13
Panel Lite V2
20/25000
Active

Configuration **Input Groups** Output Groups IO Linking Time Triggered

Name

Type AllActive

Members

Group No.	Name	Type	Members	
1	Aux Input Group	AnyOneActive	0	<input type="button" value="Delete"/>
2	Door Force Open	AnyOneActive	0	<input type="button" value="Delete"/>
3	Fire Alarm	AnyOneActive	1	<input type="button" value="Delete"/>
4	Duress	AnyOneActive	0	<input type="button" value="Delete"/>

Profile

Advanced

Features

Others

Special Functions

Input Output

Zones

Additional

Access Clusters

Device Configuration

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Panel Lite V2-Device-13
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Profile
Advanced
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We can add input Group as required or select any of the Input group available in the table and click configure

Device Configuration

13 Panel Lite V2-Device-13
Panel Lite V2
20/25000
Active

Configuration **Input Groups** Output Groups IO Linking Time Triggered

Name: Aux Input Group
Type: AnyOneActive
Members: **Configure**
Update Cancel

Group No.	Name	Type	Members	
1	Aux Input Group	AnyOneActive	0	
2	Door Force Open	AnyOneActive	0	
3	Fire Alarm	AnyOneActive	1	
4	Duress	AnyOneActive	0	

Profile
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Select a member from the table and select the desired source

Device Configuration

13 Panel Lite V2-Device-13
Panel Lite V2
20/25000
Active

Configuration Input Groups **Output Groups** IO Linking Time Triggered

Member Configuration

Member No. 1
Source: **Panel**
Port: Door
Zone: Zone
Panel 13 Panel Lite V2-Device-13
Update Cancel

Member No.	Source ID	Panel/Panel Door Name	Port	Clear
1			None	Clear
2			None	Clear
3			None	Clear
4			None	Clear
5			None	Clear
6			None	Clear
7			None	Clear
8			None	Clear

Profile
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Select the Port and click "Update". The member will be added in the table

13
Panel Lite V2-Device-13
Panel Lite V2
20/25000
Active

Configuration Input Groups Output Groups IO Linking Time Triggered

Member Configuration

Member No. 1
Source Panel
Port MC_AlarmInput
Panel 13 Panel Lite V2-Device-13

Update Cancel

Member No.	Source ID	Panel/Panel Door Name	Port	Clear
1	13	Panel Lite V2-Device-13	MC_AlarmInput	Clear
2			None	Clear
3			None	Clear
4			None	Clear
5			None	Clear
6			None	Clear
7			None	Clear
8			None	Clear

Similarly on selecting Source to be Door, one can choose among different Ports

13
Panel Lite V2-Device-13
Panel Lite V2
20/25000
Active

Configuration Input Groups Output Groups IO Linking Time Triggered

Member Configuration

Member No. 1
Source Door
Port
Panel Door No.

Member No. Source ID Panel/Panel Door Name Port Clear

1	13	Panel Lite V2-Device-13		Clear
2				Clear
3				Clear
4				Clear
5				Clear
6				Clear
7			None	Clear
8			None	Clear

So Panel Lite will check the occurrence of these events from Door controller. We can trigger output based on the occurrence of these events

The screenshot displays the 'Device Configuration' software interface. On the left, a sidebar shows the configuration for '13 Panel Lite V2-Device-13'. The main area is divided into tabs: 'Configuration', 'Input Groups', 'Output', 'IO Linking', and 'Time Triggered'. A 'Member Configuration' dialog box is open, showing a table with columns for 'Member No.', 'Source ID', and 'Panel/Panel ID'. A dropdown menu is open for the 'Source' field, listing various events from a door controller. The events listed are: DC_Offline, DC_Fault, DC_DoorForceOpen, DC_DoorAbnormal, DC_TamperFail, DC_AuxInput, DC_DuressAlarm, DC_PanicAlarm, DC_DeadManAlarm, DC_UserAllowed, DC_UserDenied, Tail_Gating, Multiple_Unauthorized_Attempts, User_Unidentified, and Dc_Aux_In_Inactive. The 'None' option is currently selected in the dropdown.

Member No.	Source ID	Panel/Panel ID	Clear
1	13	Panel Lite V2-E	Clear
2			Clear
3			Clear
4			Clear
5			Clear
6			Clear
7		None	Clear
8		None	Clear

Member Configuration

Member No.

Source

Port

Panel

Member No.	Source ID	Panel/Panel Door Name	Port	Clear
1	13	Panel Lite V2-Device-13	MC_AlarmInput	Clear
2	1	VEGA Controller floor 3	DC_Offline	Clear
3	1	VEGA Controller floor 3	DC_AuxInput	Clear
4	1	VEGA Controller floor 3	DC_DuressAlarm	Clear
5	1	VEGA Controller floor 3	DC_UserDenied	Clear
6	1	VEGA Controller floor 3	Multiple_Unauthorized_Attempts	Clear
7	1	Zone-1	Zone_Empty	Clear
8			None	Clear

Add multiple members as shown. Now we can trigger different outputs on occurrence of any of these events on Panel/Device/Zone

Select Input type as desired and then click on "Update"

Configuration **Input Groups** Output Groups IO Linking Time Triggered

Name:

Type:

Members:

Group No.	Name	Type	Members	
1	Aux Input Group	AnyOneActive	7	
2	Door Force Open	AnyOneActive	0	
3	Fire Alarm	AnyOneActive	1	
4	Duress	AnyOneActive	0	





Go to Output groups and choose the desired output type and click update

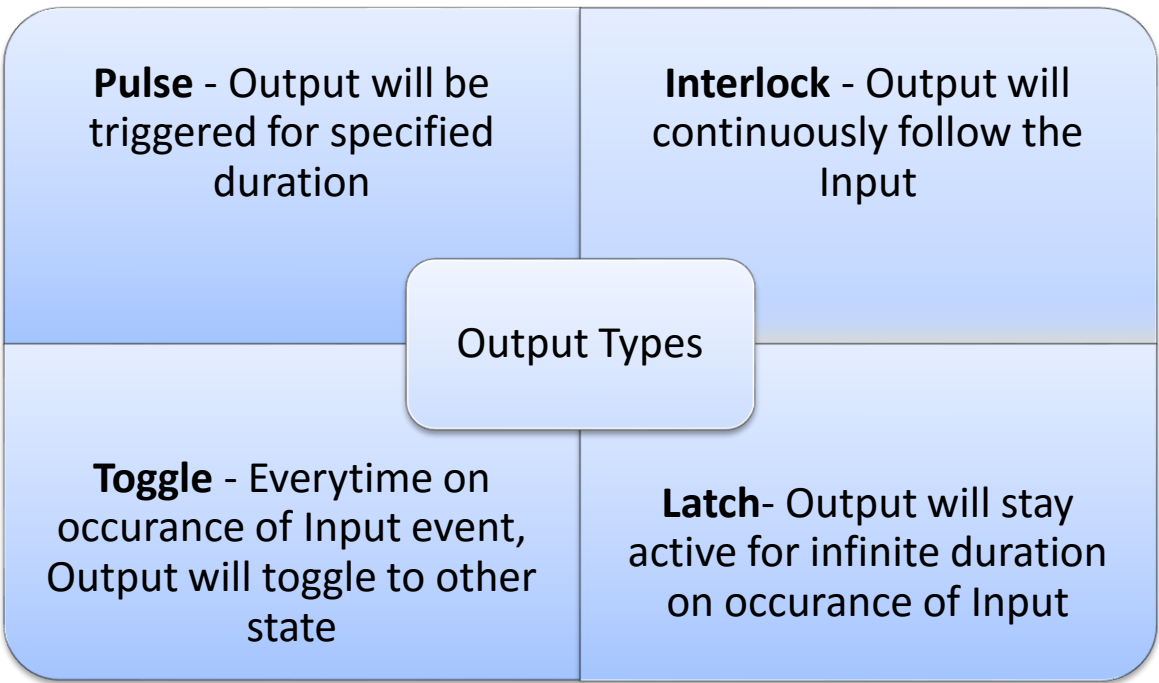
Configuration Input Groups **Output Groups** IO Linking Time Triggered

Name

Type

Pulse Time (Sec)

Group No.	Name	Output Type	Pulse Time (Sec)	
1	DC Aux Ports	Pulse	10	
2	Door Unlock	Latch		
3	Panel Output	Pulse	10	



In I/O linking, input group is linked with output group. So on occurrence of any event from Input group we can link it with desired output group and take action based on the output group configuration

Configuration Input Groups Output Groups **IO Linking** Time Triggered

Link Name

Active

Input Group No.

Output Group No.

Raise Alarm

I/O Linking Active Wait Timer (Sec)

Time Zone 1

Time Zone 2

Time Zone 3

No.	Name	Input Group	Output Group	Status	<input type="button" value="✖"/>
1	Aux Linking	Aux Input Group	DC Aux Ports	Inactive	<input type="button" value="✖"/>
2	Force Open link	Door Force Open	Panel Output	Inactive	<input type="button" value="✖"/>
3	Fire-Unlock	Fire Alarm	Door Unlock	Inactive	<input type="button" value="✖"/>

Specify the details in IO Linking and click on Add button to add it to the list of configured IO Linking

Configuration Input Groups Output Groups **IO Linking** Time Triggered

Link Name

Active

Input Group No.

Output Group No.

Raise Alarm


I/O Linking Active Wait Timer (Sec)

Time Zone 1

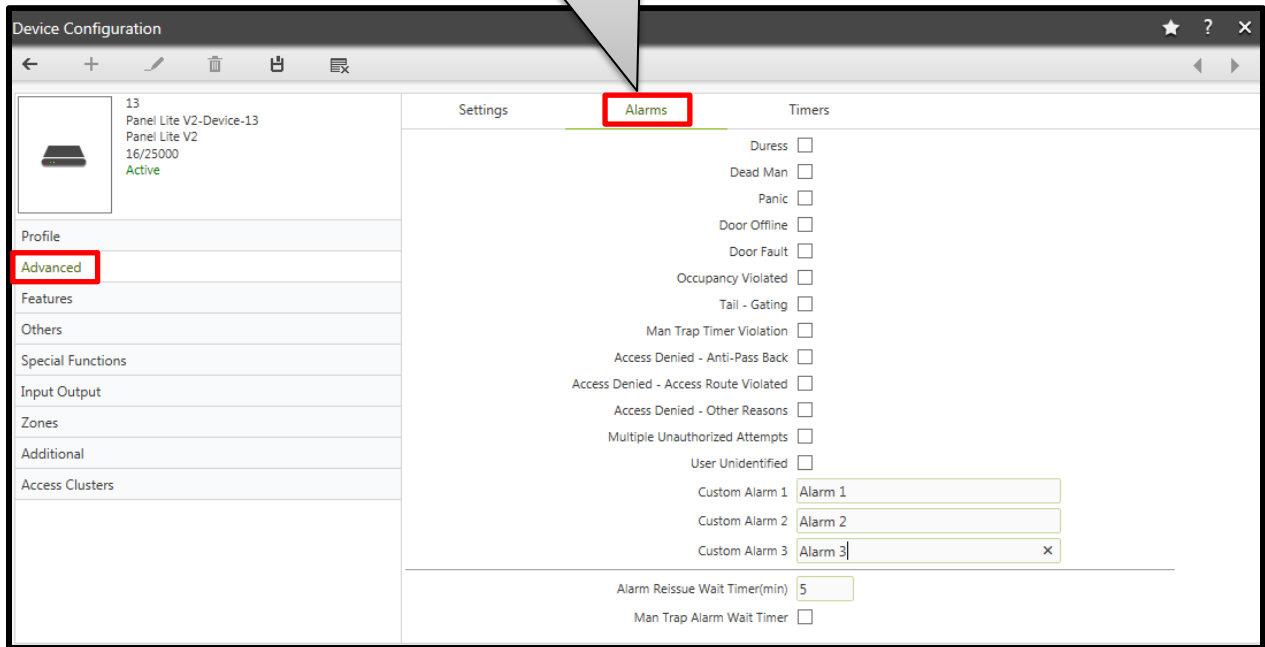
Time Zone 2

Time Zone 3


No.	Name	Input Group	Output Group	Status	
1	Aux Linking	Aux Input Group	DC Aux Ports	Inactive	
2	Force Open link	Door Force Open	Panel Output	Inactive	
3	Fire-Unlock	Fire Alarm	Door Unlock	Inactive	

 ... Selecting Raise Alarm will show the Alarm in COSEC Monitor window when the IO linking gets active.

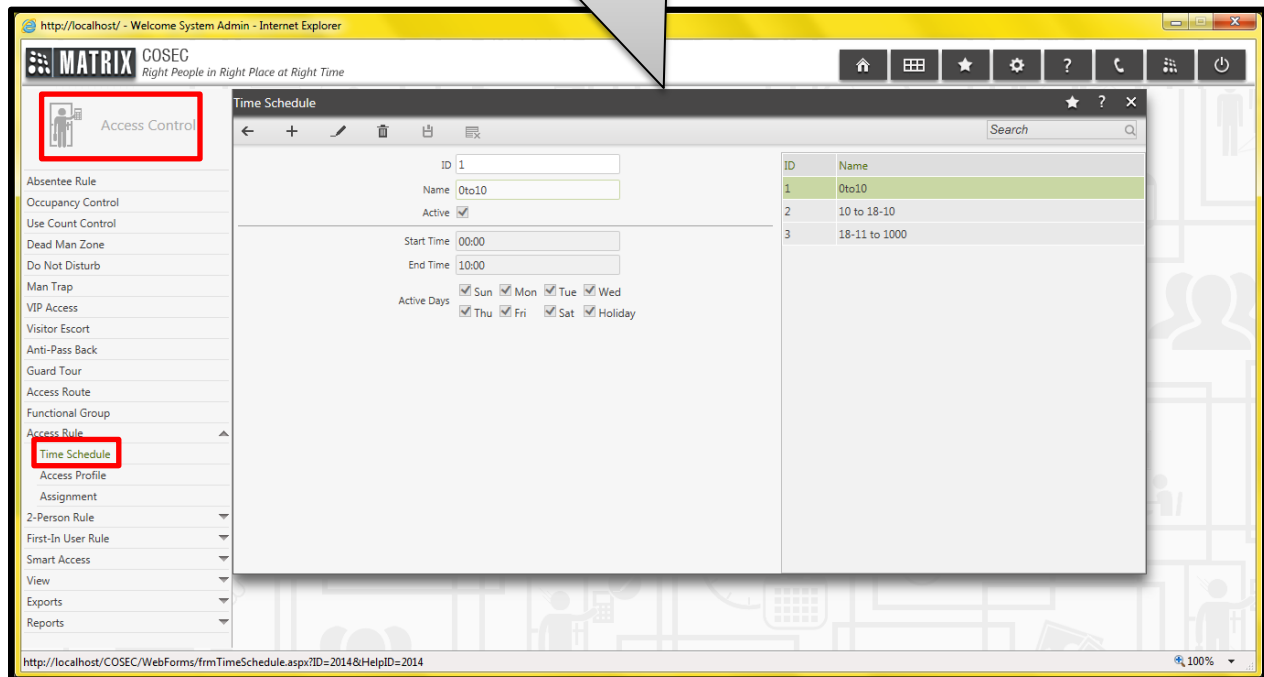
From here we can specify different Custom Alarms



The screenshot displays the 'Device Configuration' window for a 'Panel Lite V2-Device-13'. The 'Alarms' tab is selected and highlighted with a red box. On the left sidebar, the 'Advanced' section under 'Profile' is also highlighted with a red box. The main content area is divided into 'Settings' and 'Timers' sections. The 'Settings' section includes a list of alarm types with checkboxes: Duress, Dead Man, Panic, Door Offline, Door Fault, Occupancy Violated, Tail - Gating, Man Trap Timer Violation, Access Denied - Anti-Pass Back, Access Denied - Access Route Violated, Access Denied - Other Reasons, Multiple Unauthorized Attempts, and User Unidentified. The 'Timers' section includes three 'Custom Alarm' entries: 'Custom Alarm 1' with a text input field containing 'Alarm 1', 'Custom Alarm 2' with a text input field containing 'Alarm 2', and 'Custom Alarm 3' with a text input field containing 'Alarm 3' and a clear button (X). Below these sections, there are two more settings: 'Alarm Reissue Wait Timer(min)' set to '5' and 'Man Trap Alarm Wait Timer' with an unchecked checkbox.

 ... Make sure that appropriate Time Zone has been selected as the IO linking will be active only during the time dpecified in the Time Zone.

We can create/manage different Time Zones from here



The screenshot displays the 'Time Schedule' configuration page in the MATRIX COSEC web interface. The left sidebar shows the 'Access Control' menu with 'Time Schedule' highlighted. The main content area contains a form for editing a time schedule and a table of existing schedules.

ID	Name
1	0to10
2	10 to 18-10
3	18-11 to 1000

Members of Input Group:

1	13	Panel Lite V2-Device-13	MC_AlarmInput	Clear
2	1	VEGA Controller floor 3	DC_Offline	Clear
3	1	VEGA Controller floor 3	DC_AuxInput	Clear
4	1	VEGA Controller floor 3	DC_DuressAlarm	Clear
5	1	VEGA Controller floor 3	DC_UserDenied	Clear
6	1	VEGA Controller floor 3	Multiple_Unauthorized_Attempts	Clear
7	1	Zone-1	Zone_Empty	Clear

Output Group:

3	Panel Output	Pulse	10	
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As per the configurations done so far system will trigger Panel Aux Output in event of any member from the Input Group





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