



DOMOSAPIENS SECURITY ENHANCEMENTS DRIVER

This driver enables you to enhance most recent Security System drivers using the 'securitypanel' proxy, available since OS 2.8.

Specifically, the following functions are added to the Security System driver:

- Up to 19 Zone Groups with associated events, triggered when any zone in the group is faulted
- Special Zone Groups may also respond to specific keywords produced by the Security System driver (Fire, Medical, Panic)
- Zone groups allow easy but sophisticated control and programming
- Zone groups can also trigger Control4 relays for direct control
- Specific lights and/or Advanced Lighting Scenes may be turned On when an Alarm is triggered
- Specific lights and/or Advanced Lighting Scenes may also be flashed for up to 60 minutes when an Alarm is triggered
- Any light turned On by an Alarm is reverted to its original state when the Alarm is reset
- Ability to send notifications to one or more email addresses (including SMS addresses) for selectable security events (ARMED, DISARMED, ALARM, TROUBLE)
- Ability to expand the zones complement of the Security System by using Virtual Zones and Trigger Relays.

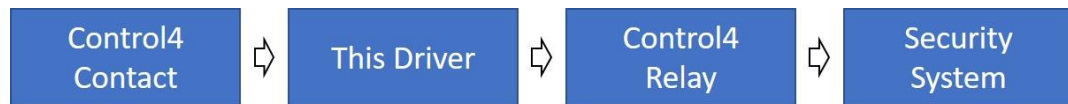
This driver automatically makes all the required connections with the selected Security System driver.

VERY IMPORTANT NOTE: Using Virtual Zones should be evaluated on a case by case basis as this setup using Control4 Contact Sensors and Relays to activate real Security System zones is not certified and must be used with caution.

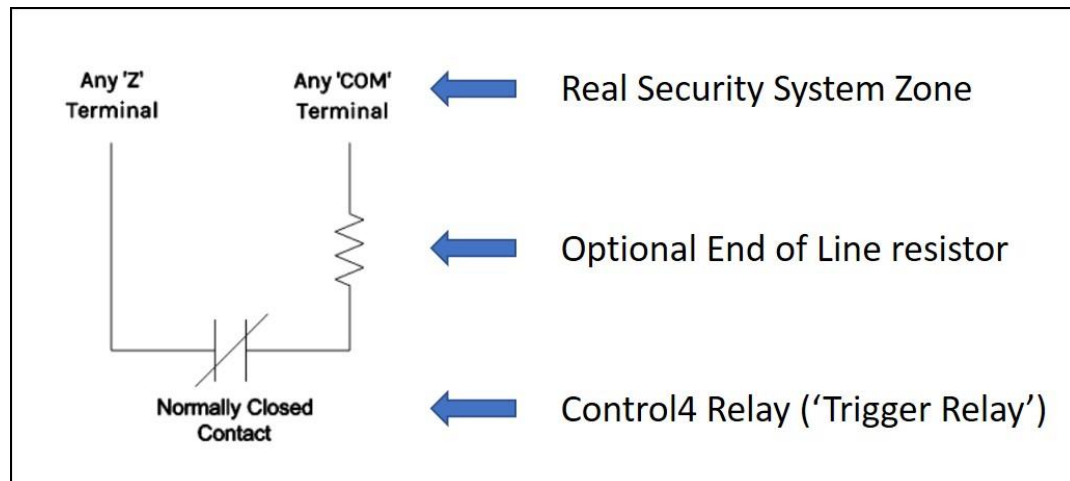
INSTRUCTIONS

- Use the free trial period or activate the driver at any time by assigning to this project the license you purchased from the DriverCentral website (requires the DriverCentral cloud driver). You may use multiple copies of this driver in your project, if you have more than one Security System active.
- Select the Security System to be enhanced. Only the main security driver may be selected in each Security System.
- Since it is difficult to determine the actual number of partitions in use, this needs to be specified.
- The driver will then automatically detect the number of zones and will connect to each zone. The field 'Highest Zone Found' shows this detection. IMPORTANT: although the zone bindings are hidden in the Security Enhancements driver, the connections are visible in the security driver itself. Should you delete such bindings by mistake, simply use this driver's Action to 'Reconnect All Zones'. All zones are also reconnected automatically upon restart.

- You may select fields in the 'Lights and Notifications' as well as 'Zone Groups' areas. Please refer to the **PROPERTIES** section below for details.
- It is good practice to add Control4 'Sensors' devices to the project and to connect them to zones in the Security System driver. This Security Enhancement driver is then able to report the names of the connected sensors as Zone names for ease of use in Notifications.
- The purpose of Virtual Zones is to have Contact Sensors outside of the Security System trigger real Security System zones via Control4 Trigger Relays (up to 8 Trigger Relays are supported), thus able to 'FAULT' or 'READY' specific zones in the Security System. If you wish to use Virtual Zones, specify the number of zones desired (up to 64), the characteristics of each zone (its name, its normal state and the trigger relay it should be paired with). Also specify the real Security System zone each trigger relay will control.



IMPORTANT: Connect each selected Control4 trigger relay's **NC connection** to its corresponding Security System zone with an optional End of Line resistor in series. This way, the Security System will normally see a closed circuit and the Control4 relay, being open, will not normally draw any power. When a Virtual Zone is faulted via its Contact Sensor (NC or NO), the Control4 relay will be activated (closed) and the Security System will see a fault.



- Connect Control Inputs (Zone Group Relays, Virtual Zone Contact Sensors and Trigger Relays) and Outputs (Zone Groups), as appropriate. DO NOT connect Zone Group Relays to the Security System. When you are finished, Refresh Navigators.

PROPERTIES

Cloud Status displays the status of the DriverCentral license or trial.

Automatic Updates may be set to yes to allow for DriverCentral updates.

Driver Version displays the version of this driver.

Debug Mode turns Debug Mode Off or On (with output to the Lua Output window).

Debug Duration in Minutes sets the duration of Debug On.

Driver Information displays various status messages about the driver.

Security System allows you to select the Security System to be enhanced. Only the main security driver may be selected in each Security System.

Security System Driver Initialization in Minutes allows you to specify the delay this driver will wait for before acting on most Zone Groups and Virtual Zones. Although the 2-minute default should be adequate for most cases, some Security System drivers may take more time to perform their initialization tasks. During this delay, however, any alarm or security status (armed/disarmed) received from the security system driver will be acted upon by this driver while Zone Groups and Virtual Zones will be acted upon only after the specified initialization delay has ended.

Number of Active Partitions allows you to specify the number of partitions to be monitored, as the driver cannot easily determine this by examining the Security System driver.

Highest Zone Found displays the highest zone number the driver has found by examining the Security System driver. All connections are done automatically.

Number of Virtual Zones allows you to activate the Virtual Zones function. Up to 64 Virtual Zones may be connected to up to 8 Trigger Relays, in turn connected to real zones of the Security System. Set to 0 to disable the Virtual Zones function. See the **Virtual Zones** section below.

Real Security System Zones Connected to Trigger Relays applies to Virtual Zones only and allows you to optionally specify which real Security System zone each Trigger Relay is connected to. This information is used in the Virtual Zone Report as well as in messages produced when a Virtual Zone is activated.

Debounce Timer in msec or 0 to disable (applies to Virtual Zone Inputs only) is optional and allows you to debounce problematic Contact Sensors.

Alarm On Lights and **Alarm Flashing Lights**: optionally, you may specify lights which will be turned On when an Alarm state is triggered. An Advanced Lighting Scene (ALS) may also be connected (TOP is the ALS itself, BOTTOM is the same ALS, provided it has a Toggle scene properly defined in the Agent). When the Alarm is reset, the lights/ALS will return to their original state. Similarly, you may specify lights or Advanced Lighting Scene(s) which will be flashed during an Alarm state. For ALS, connect the scene to the TOGGLE (FLASH) connection and make sure the ALS has a properly-defined Toggle scene. These lights/ALS will return to their original state when the Alarm is reset or after the maximum duration selected (Property). If your project contains more than one partition, connections will be created for Advanced Lighting Scenes responding to Alarms in each partition. Otherwise, use the 'All Partitions' connections. An Action is available to test this function.

Maximum Alarm Flashing Duration allows you to specify the maximum light flashing time (in Minutes).

Notification Addresses: optionally, you may specify email addresses to receive a notification when specific event occur. Prefix the email address with Flags and a colon. Flags may be 'A' (Alarm), 'S' (Armed or Secured), 'D' (Disarmed) and 'T' (Trouble). Several addresses may be separated by a semicolon. For example:

ASD:myaddress@mymail.com;A:myphonenummer@myprovider.com;T:mydealer@hismail.com

In this example, Alarms and Arming/Disarming notifications will be sent to 'myaddress@mymail.com'. Alarms will also be sent to the cell phone (verify the specific address used by your provider) and Trouble reports will be sent to the dealer. A property also allows to specify the Subject field to be used in notifications. An Action is available to test this function.

Notification Subject Field allows you to specify Subject field in email/SMS notifications. If not specified, a generic Subject fields will be generated.

Zone Groups

If desired, enter the Zone numbers for your Fire detectors, Medical contacts, Panic buttons and Zone Groups, separated by commas (ex.: 12, 22, 51). Zone ranges may also be specified (ex.: 1-6, 10-12). Leading spaces for each are ignored. For Zone Groups A to P, you may start the list with a non-numeric group name (ex.: Water Detectors, 17, 32, 35). A zone may be specified in more than one group, if appropriate. Virtual Zones may also be part of Zone Groups, but if Virtual Zones also trigger real Security System zones, you may specify the latter instead. In such cases, you should not specify both a Virtual Zone AND the real zone it triggers via a Trigger Relay in the same Zone Group.

Select Zone Group to show allows you to specify which Zone Group (or All) will be displayed in Composer. Any Group which is not displayed but contains zone numbers remains active. It is therefore best to 'Show all Zone Groups'.

Fire Detector Zone Group allows you to specify the zones which, when faulted, will trigger the 'When Fire Alarm detected' event. This would typically be used for Fire/Smoke detector zones. This is also triggered if your Security System driver issues alarm types containing 'FIRE' or 'SMOKE' (case is not important). When activated, its Contact Sensor becomes "OPENED" and if a Control4 relay is connected to the group's RELAY connection, it will be energized ("CLOSED").

Medical Zone Group allows you to specify the zones which, when faulted, will trigger the 'When Medical Alarm detected' event. This would typically be used for zones related to health sensors. This is also triggered if your Security System driver issues alarm types containing 'MEDIC' or 'AMBUL' (case is not important). Its operation, including its relay, is similar to that of the Fire Detector Zone Group above.

Panic Button Zone Group allows you to specify the zones which, when faulted, will trigger the 'When Panic Alarm detected' event. This would typically be used for Panic Button zones. This is also triggered if your Security System driver issues alarm types containing 'PANIC' or 'DURESS' (case is not important). Its operation, including its relay, is similar to that of the Fire Detector Zone Group above.

Zone Groups A to P allow you to specify the zones which, when faulted, will trigger the 'When Zone Group x Not Ready' event. When all the zones in a Group are reset, the driver will trigger the 'When Zone Group x Ready' event. Its operation, including its relay, is similar to that of the Fire Detector Zone Group above.

Virtual Zones

Virtual Zone nnn allows you to specify the name of a Virtual Zone, its normal state (NC for Normally Closed and NO for Normally Open) as well as the Control4 Trigger Relay it will be associated with. This last part is optional, and you may specify 0. To be effective, a Virtual Zone must be associated with a Trigger Relay and/or part of one or more Zone Groups. Otherwise, the Virtual Zone would have no effect at all. It is important to note that the Trigger Relay number entered here refers to a Control Input in this driver's Connections ('Virtual Zone Trigger Relay 1' to '... 8'). Examples (omit the quotes): 'Front Door,NC,1' or 'Garage Door,NC,2' or 'Inside Door,NO,0'.

SUPPORT

For support on this driver please go to <https://help.drivercentral.io/>. Give a detailed description of the problem and also include the version number of the driver and the version of Control4 OS that you are using.

AUTO UPDATE

This driver is updated with fixes and new features from time to time. To ensure your project uses the latest version, set the Automatic Updates property of the driver to On.

CHANGELOG

10.0.0	May 3, 2020	Initial Release
10.1.0	September 5, 2020	Licensing update, issues fixed with Zone Groups
11.0.0	May 27, 2021	Added 9 Zone Groups