CONTROL4 AND XR150/XR550 INTEGRATION
Application Note

INTRODUCTION

Easily integrate your network enabled XR150/XR550 control panel V171 into Control4 via IP.

The Control4 driver detects the XR150/XR550 panel with Control4's Simple Device Discovery Protocol (SDDP) broadcast. When the Control4 Composer V2.8 or greater sees the panels' SDDP broadcast, it asks if you want to integrate the DMP XR panel that's on your network. This makes the integration seamless, easy to detect and inexpensive.

Designed to remain generic and flexible, this driver gives dealers greater control over the security system. Arm or disarm the system and receive full zone status. The driver also allows for custom user codes defined inside Composer.

FEATURES

- 2.8 Alarm Proxy
- Arm/Disarm individual areas (does not support Home/Sleep/Away or All/Perimeter)
- Track zone status for each area
- Define user codes for each area (30 users per area)
- Set individual areas to bypass/force zones on arm
- Receive user disarmed events for use in Control4 programming:
  - User 1 Disarmed - turn lights on in User 1's office

DRIVER OVERVIEW

This driver integrates a DMP XR550 or XR150 security panel into your Control4 project. Composer Version 2.8 or greater is required for this driver. Please follow the setup below to use this driver with the panel. The driver is limited to a maximum of eight areas but is unlimited to the number of zones and outputs.

**NOTE: The keypad is featured with a six-character buffer limit that is cleared after 20 seconds of inactivity. This is intended for arming and disarming functionality. If the keypad is empty and a user tries to arm or disarm the system, a keypad will request a code.

DMP HARDWARE AND SOFTWARE SETUP

A DMP installer is recommended for this part of the setup.

Physical wiring and configuration of the panel are required for operation as well as configuration through the Remote Link™ software for setting up areas, zones, outputs and other panel information.

For real-time feedback for area status, zone status and output status, configuration for the Entré™ Connection must be done as well as enabling real-time status for zones and outputs.

For emergency setup, outputs must be assigned to fire, medical, panic and police.

COMPOSER SETUP

1. Add the DMP Security Panel driver to the project.
2. Enter the security panel's network address in the Connections tab.
3. Set the account number and the remote key in the Properties tab. For details on those properties, see documentation below.
4. At this point, the panel should be connected and authenticated. If the driver has not already gotten the information from the panel, click on the Read From Panel button to retrieve the panel configuration. This retrieval includes areas, zones, system info, outputs, user codes and profiles.

5. After the driver successfully reads from the panel, any initial zones or outputs will be created in the Connections tab for you. If any zones or outputs are added to the panel at any time after, just click the Read From Panel button again to retrieve those updates.

6. Bind up any connections and then refresh navigators.

PROPERTIES

Status: Current network status of the security panel

Mac Address: Mac address of the security panel

Serial Number: Serial number of the security panel

Model Number: Model number of the security panel

Software Version: Software version of the security panel

Account Number: A five-character account number given to the security panel for authorization

Remote Key: An eight-character key given to the security panel for authorization

Auto Bypass Bad Zones: Automatically bypasses zones that are faulted during an arm or disarm

Auto Force Bad Zones: Automatically forces zones that are faulted during an arm or disarm

Entry And Exit Delay: Delay, in seconds, for arming and disarming the system

Relay Mode: Mode to set the output devices of the panel

Emergency Fire Relay Number: Output number to set on the panel for this emergency — when this emergency is triggered on the UI, it will pulse the specified output number

Emergency Medical Relay Number: Output number to set on the panel for this emergency — when this emergency is triggered on the UI, it will pulse the specified output number

Emergency Police Relay Number: Output number to set on the panel for this emergency — when this emergency is triggered on the UI, it will pulse the specified output number

Emergency Panic Relay Number: Output number to set on the panel for this emergency — when this emergency is triggered on the UI, it will pulse the specified output number

Entré IP: IP Address of the Controller used for the Entré Connection IP Address field in the Remote Link programming software to provide live feedback to the driver

Entré Last Check In: Timestamp of the last known check in from the Entré connection — this check in interval is set from Remote Link remote options

Entré Outbound TCP Port: Port assigned to the Entré Connection section of programming on Remote Link to provide live feedback to the driver

DEBUG MODE: Used for printing and logging debugging messages

ACTIONS

Reset Bypass Zone: Resets a specific zone back to its original non-bypassable state

Bypass Zone: Sets a specific zone to be bypassed during arming and disarming

Refresh Zones: Retrieves the zone information from the panel

Refresh Areas: Retrieves the area information from the panel

Refresh Outputs: Retrieves the output information from the panel

Refresh System: Retrieves all pieces of information

Download User Profiles: Retrieves the user profiles from the panel

Download User Codes: Retrieves the user codes from the panel

COMMANDS

Sensor Reset: Resets master sensor on panel

Refresh System: – Gets latest information from system

Arm All: Arms all available areas

Disarm All: Disarms all available areas

EVENTS

- **Trouble Start**
- **Trouble Clear**
- **Armed**
- **Disarmed**
- **Arm Failed**
- **Disarm Failed**
- **Alarm**
- **Alarm Clear**
- **Partition State Changed**
- **Emergency Triggered**
- **WATCHDOG:** Control4 variable and event that changes every time the network status changes — this variable gets set to true when the panel is online and false when the panel is offline
- **LAST_VALID_CODE_ENTERED_NUMBER:** Control4 number variable and event that changes every time someone enters a valid user code for arming the system
- **LAST_VALID_CODE_ENTERED_STRING:** Control4 string variable and event that changes every time someone enters a valid user code for arming the system

CONNECTIONS

Panel

    Dynamic Zone Connections

    Dynamic Output Connections

Partition

    Room Selection Security Area 1-8