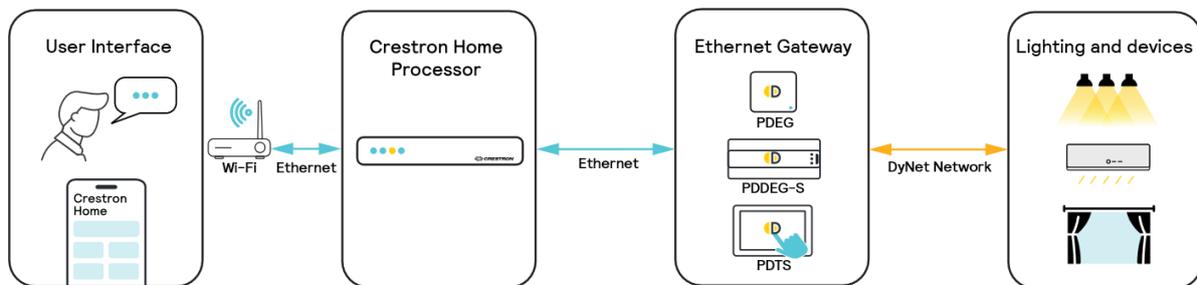# Crestron Home

Integration Overview

'Works with Dynalite' certification provides customers with confidence that a partner's integration with the Dynalite system is functionally sound and performs as designed. This helps integrators reduce deployment risk, lower total cost of ownership, and improve the user experience related to the integrated service.

Purpose

Chowmainsoft has developed a Dynalite driver for Crestron Home. This integration bridges the gap between professional lighting and effortless home control, unlocking the full potential of Dynalite within the intuitive Crestron Home interface. Instantly transform the mood of any room, trigger an automation in Crestron Home from a Dynalite UI (User Interface) and create custom scenes. This integration marries the world's most powerful lighting system with the ultimate smart home experience, elevating your residence from simply lit to truly alive.

Capabilities

- Loads device and preset names from data files so there is less programming when adding loads.
- Automatically detects a switched or dimmable load (switched, dimmable, colour temperature or RGB load) and adds respective controls
- Obeys hidden fields in System Builder to only show the presets and areas you need.
- Unused load names are matched to standard names and filtered out.
- Tracks Dynalite preset changes and reflects those on Crestron Home.
- Tracks changes made in Crestron Home and updates the state of relevant Dynalite UI.
- The preset extension driver has events for each preset allowing you to use Dynalite UIs to control anything in Crestron Home.
- The preset extension driver has preset triggers allowing Crestron Home to trigger Dynalite scenes and tasks.
- The preset extension shows the current preset, preset offset and temperature (if supported) for each area.
- There is a property (variable) for the temperature that can be used to trigger custom automation based on the current temperature.

Integration method

The driver requires a Dynalite Ethernet Gateway for communications. Note that the gateway device must be configured in a specific way, outlined in the Chowmainsoft [Dynalite Installation and Usage Guide](.).
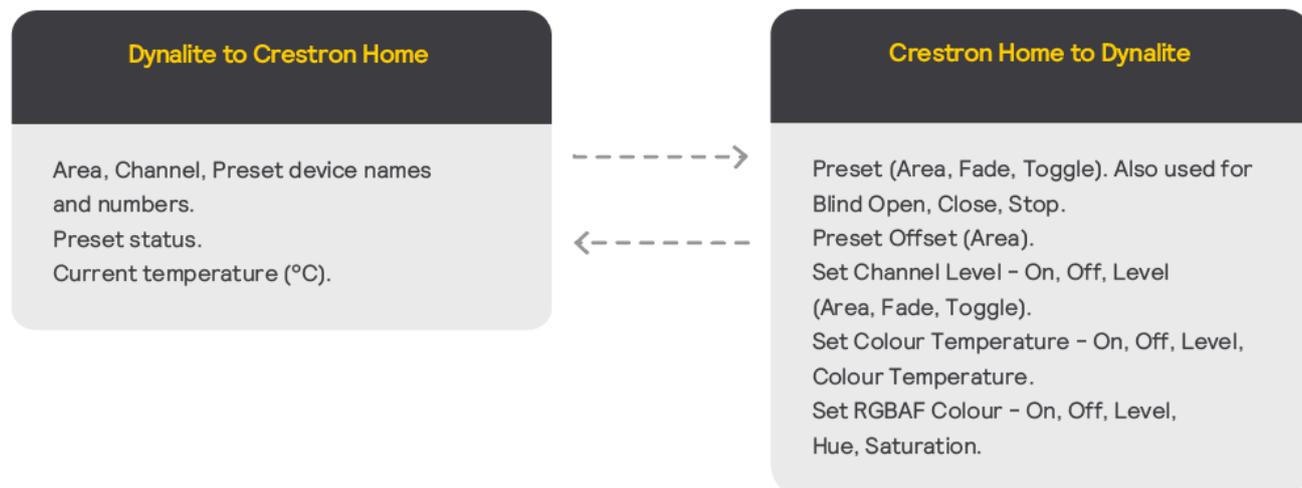
This driver automatically loads in device and preset names from the Dynalite Project.xml file. This speeds up programming when adding in loads. Dynalite preset scenes are the most efficient way of controlling the lighting or when multiple actions need to be performed.

The driver is installed in the Crestron Home app without requiring any specialized programming in Dynalite, giving dealers full advantage of the advanced Dynalite programming they are accustomed to, whilst also capitalising on the features of Crestron Home.

Technical Requirements

Dynalite environment	Partner environment
Dynalite Ethernet Gateway (PDEG, PDDEG-S, or PDTS) configured for Crestron Home communication	Crestron Home control processor and OS
System Builder Job configured for Crestron Home	Licensed Chowmainsoft driver
Project.xml file uploaded to Dynalite Ethernet Gateway	Installed Chowmainsoft Project Agent and project code
	Crestron Home setup app with: • Ethernet Gateway IP address • Installed driver • imported project data • Configured project
	Crestron Home app

Dataflow Diagram

Dynalite to Crestron Home

Area, Channel, Preset device names and numbers.
Preset status.
Current temperature (°C).

Crestron Home to Dynalite

Preset (Area, Fade, Toggle). Also used for Blind Open, Close, Stop.
Preset Offset (Area).
Set Channel Level – On, Off, Level (Area, Fade, Toggle).
Set Colour Temperature – On, Off, Level, Colour Temperature.
Set RGBAF Colour – On, Off, Level, Hue, Saturation.

Contact Details

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