

Modulus Media Player



Compatible Control4 Systems:

Designed to work with OS 3.x.+ and X4

Compatible Hardware:

Modulus M2, M1 and Mx1

Documentation & Driver Download & Change Log:

<https://drivercentral.io/platforms/control4-drivers/audio-video/modulus-media/>

Overview/Features

This driver integrates Modulus Media Players (M1, M2, Mx1) with Control4 using a two-way REST/TCP interface. It supports media browsing, search, and playback through the Control4 Media Player Proxy, with configurable button mapping and polling-based status updates. Designed for the Modulus Movie Library, it exposes key Composer variables and events for advanced automation. Requires Modulus firmware 7.7.3+.

Key Features

- Native integration of Modulus Media Players using the Control4 Media Player Proxy
- Two-way network driver (REST/TCP-based communication)
- Modulus remote commands mapped to Control4 proxy commands
- Fully customizable via driver properties
- Supports Press-and-Hold for advanced control behavior
- Browse and play Movies, Trailers, and Personal Videos from Control4 UIs
- Full movie library browsing with title search and metadata display
- View detailed information for each title, including descriptions
- Composer variable `CURRENT\_MEDIA\_TITLE` tracks the currently playing title for use in Control4 When/Then logic

Dealer Notes & Limitations

- Modulus devices must be DHCP-reserved or assigned a static IP. Changing the IP address can disrupt control and access to the local database.
- The driver communicates locally over REST/TCP and must reside on the same subnet as the Modulus unit.
- Only the **Movie Library** section of the Modulus system is officially supported. Other sections (Live TV, Apps, etc.) have not been tested and may have limited functionality.
- App control is not supported. Modulus requires a mouse-like interface for apps, which is not compatible with the Control4 Media Player Proxy.
- Modulus does not support traditional Power On/Off states. However, you can assign API commands for these actions via driver properties.
- Control4 does not support displaying cover art at the room level. For conditional programming, use the Composer variable `CURRENT\_MEDIA\_TITLE`.
- Remote access via Control4's Control App does not support cover art display, though media selection and playback still function.
- Play/Pause commands may require multiple attempts. This is a known issue with Modulus firmware; improvements are in progress.
- The driver polls Modulus every 30 seconds. If two consecutive polls fail, the driver sets the connection status to **Failed to Check-In**.

- Each driver instance connects to a single Modulus player, which determines the available media.
 - Modulus firmware version **7.7.3** or later is required.
 - Button mappings are preconfigured to match common Modulus remote commands, but can be customized using the **Button Map Configuration** section in driver properties.
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Driver Setup

1. **Add the Driver:** Add the Modulus Media Player driver to your project
 2. **Network Configuration:** Configure the device IP address in Connections/Network
 3. **Make A/V Connections:** Bind *HDMI* Connection according to how unit was installed
 4. **Refresh Navigators**
 5. **Testing:** Use *Refresh Communication* Driver Action command to verify communication
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Driver Properties

Cloud/General Properties:

- **Cloud Status:** Displays licensing status and Auto-Update Cloud Support using the DriverCentral Platform.
- **Driver Status:** Displays general driver related information/updates
- **Driver Version:** Current driver version

Device Configuration Properties

- **Device Connection:** The current device communication status of the Modulus Player
- **Current Screen:** The current UI or Screen displayed on the Modulus HDMI Output
- **Current Media:** The current Movie Title playing
- **Polling Timer (seconds):** How often to poll device status (default: 30 seconds)

Button Map Configuration Properties

Note: API Commands listed are standard Modulus API Commands. For more information about a specific API command contact Modulus Directly or try it out and see what it does ;).

- **Button Map Config:** Selects which group of buttons you want to adjust/re-map to.
- **BUTTON_COMMAND Action:** Set which (if any) API command you want to execute when this BUTTON_COMMAND is received by Control4.
- Example, if you wanted the **RED** button to always go to the *Trailers* Library, you would select the API Command **jump.trailers**

Connections

Modulus Players only support a single HDMI Output. If you require other AV Connections, use the *Control4 AV Path Setter Driver*.

Programming

Composer Events

- Media Player Proxy Events:
 - **Power On/Off:** Modulus Players do not support ON/OFF commands, so event status (ON/OFF) are not functional.
 - **Play:** Triggers when a movie starts playing. Note, may be delayed up to 30 seconds due to Polling.
 - **Stop:** Triggers when a movie stops playing.
 - **Pause:** Not Functional or Supported by API.
- Additional Events:
 - **Connection State Changed:** Triggers when Modulus is Online/Offline.

Composer Variables

- **POWER_STATE:** (bool) True when unit is Online.
- **TRANSPORTS_BUTTONS:** Internal Variable. Do not use
- **TRANSPORTS_DASHBOARD_LARGE:** Internal Variable. Do not use

- **TRANSPORTS_DASHBOARD_SMALL:** Internal Variable. Do not use
- **TRANSPORTS_DEFINITIONS:** Internal Variable. Do not use
- **TRANSPORTS_SUPPORTED:** Internal Variable. Do not use
- **CONNECTION_STATE:** (bool) True when unit is Online.
- **CONNECTION_STATUS:** (string) A descriptive word when unit is Online/Offline/Failed to Check-In
- **CURRENT_MEDIA_TITLE:** (string) The Title of the Movie being played. Will revert back to nothing when NOT playing a movie
- **CURRENT_MEDIA_TYPE:** (string) The kind of Media being Played (MOVIE/TRAILER/ETC...)

Composer Commands

- Media Proxy Commands. The following Commands trigger the API Command if assigned in *Button Map Configuration*
 - *Power On, Power Off*
 - *Skip Backwards, Skip Forwards*
 - *Scan Backwards, Scan Forwards*
 - *Play, Pause, Stop*
 - *Menu, Up, Down, Left, Right, Enter*
 - *Keypad Buttons*
- Device Specific Commands:
 - *Play Movie by Name:* This command takes a Parameter **Movie Name** and searches for that movie. The driver will then play the first movie found in the search.
 - *Jump to Menu:* This command will trigger a specific *Jump* API command to a specific menu.
 - *Send API Command:* This command will trigger the selected API Command
 - *Send Advanced API Command:* This command allows dealers to enter a custom API command if needed.
 - Example: **play.movies:776** is the API command to play movie 776. Refer to Modulus API documentation for proper API syntax.

Support

If you require additional driver assistance or are having some issues please visit our help desk: <https://help.drivercentral.io>

Driver Licensing

This driver is owned and controlled by Modulus Media Systems and provided free-of-charge to Control4 dealers via the DriverCentral Driver Distribution Hub.

Warranty & Disclaimer

Hardware Support please visit: *Modulus Media Systems*

<https://modulusmediasystems.com/>

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Driver Support: *DriverCentral*

Submit a ticket @ <https://help.drivercentral.io>

Developer Information

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We are always looking to improve our drivers.
Please send your suggestions to: info@cindev.com