Control Programming LLC

Release Notes

CPLLC UI Tile TriState

Version 5.00 · November 5, 2026

Product	CPLLC UI Tile TriState (Crestron Home extension)
Version	5.00
Release date	November 5, 2026
Where to find it	Drivers › UI Tiles › Control Programming LLC › TriState
Requires	Crestron Home OS 4.12 or later, and the CPLLC License Manager 5.00 or later
Licensing	A TriState license key (cpllc.net/product/ui-tile-tristate) or a CPLLC site license key (cpllc.net/product/site-license)

Overview

The TriState is a Crestron Home tile with three commands, Open, Stop and Close, and the Opening and Closing transitions between them. It is made for anything that moves between two end positions and can be stopped part way: shades, drapes, screens, gates, pool covers, lifts. The installer names the states and picks their icons. The TriState controls no hardware by itself: sequences connect it to devices, relays or other extensions, and its events tell sequences each time it starts moving, stops, or reaches Open or Closed.

Capabilities

Capability	What it does
Open, Stop and Close	The control page has Open and Close buttons; Enable Stop Button adds Stop (default off). Stop works while the TriState is moving, which needs a transition time above 0: it ends the transition, shows Stopped and raises “TriState is Stopped”, so a sequence on that event stops the real device.

Capability	What it does
Opening and Closing transitions	After Open or Close, the tile shows Opening or Closing for the time set in the installer, then Opened or Closed. With a time of 0 it changes at once. Stop ends the transition where it is: the tile shows Stopped, and both Open and Close are available.
One-touch tile	Touching the tile starts the next move, Open or Close; touching it while moving stops it (Tile Clickable). The tile can stand alone with no control page (Only Display Tile), or keep a "..." button that opens the control page.
Auto Close	Opens, then closes again a set time later, in minutes, or in seconds with Auto Time in Seconds, up to the Maximum Auto Time (default 600). The timer starts once the TriState is fully open, and the tile counts down the time left. Close, Stop or Toggle cancels it.
Feedback-only operation	The tile shows only the state that a device reports through the Feedback actions. Until then it shows a spinner and "Waiting for Opened Feedback", so the user can see a command was sent but not yet confirmed.
PIN code	A keypad must be cleared before the controls are shown, and touching the tile opens the keypad instead of moving anything. The PIN can be changed from the keypad, and the controls lock again after a set time without touches.
Sequence actions	Open, Stop, Close, Toggle, Open with Auto Close, report feedback, and enable or disable the TriState.
Events	Opening, Opened, Closing, Closed and Stopped; enabled or disabled; PIN locked or unlocked.
Home and room screens	The tile can be shown in its room, on the Home screen, or both.
Remembers its state	The state is kept through a restart of the extension or the processor.
Live changes	Installer options take effect as soon as OK is pressed in Setup, with no reload; debug output turns on and off while the processor runs.

What's New in 5.00

- Upgrading from an earlier 5.00 build asks for reconfiguration once, because the Obtain License Key link has a new id: press Reconfigure, then Next through the pages. Every setting is kept.
- With Only Display Feedback, Open and Close raise only "TriState is Opening" or "TriState is Closing"; "TriState is Opened" and "TriState is Closed" come when a Feedback action reports the state (before, they were raised with the command).
- A TriState stopped part way stays Stopped until it is moved again or a Feedback action reports another state, and the end of a move reaches the app in one update.
- Setup's license help now says the TriState takes its own license key or a CPLLC site license key; the License Manager is not required, but is the convenient place for a site key.

- First release of the TriState as a catalog product, built on the CPLLC 5.0 shared libraries and the same open / stop / close tile every CPLLC cover product uses, so its options, actions and events work the same way across products.
- Opening and Closing transition times are set in the installer, each on its own (0 for no transition).
- Enable Stop Button starts unchecked: Stop is offered while the TriState is moving, and shows Stopped.
- Stop part way shows Stopped, and the TriState can then be opened or closed from there.
- Auto Close, with a countdown on the tile; Auto Time in Seconds switches the time from minutes to seconds, and Maximum Auto Time sets the longest time allowed.
- Feedback-only operation shows that the tile is waiting, with a spinner, until the device reports its state.
- A Starting Pin Code protects the tile as well as the control page: touching the tile opens the keypad.
- The tile and control page are built by the extension itself, with no separate UI definition files.
- Debug output can be turned on and off while the processor runs, without a restart.
- Obtain License Key opens the TriState's own page on cpllc.net (it opened the UI Tile Shade page).

Installing

The TriState is a new driver. It does not replace any earlier CPLLC driver, and it needs the CPLLC License Manager 5.00 or later on the processor. Add it from Drivers › UI Tiles › Control Programming LLC › TriState, enter its license key (or leave it blank on a site with a CPLLC site license), and set the options below.

Installer Options

Every option has a working default: a new TriState is an Open / Close tile in its room with a 5-second transition each way, that starts a move when touched (or stops it while it moves), with no control page and no Stop button.

Option	Description
Obtain License Key	Opens CPLLC.net, where license keys and site licenses can be purchased.
Enter License Key	The TriState license key. Leave blank when the site has a CPLLC site license.
Show on Home Screen	Shows the tile on the Home screen (default off).
Show in Room Screen	Shows the tile in its room (default on).
Starting Pin Code	A numeric PIN that must be entered before the controls are shown. Blank means no PIN (the default). A new Starting Pin Code replaces a PIN changed from the keypad, so a forgotten PIN can be reset here.
Seconds Pin Active	How long the controls stay unlocked after the last touch (default 10 seconds; 0 also means 10).
Tile Clickable	Checked (the default): touching the tile opens or closes it, or stops it while it moves. Unchecked: touching the tile opens the control page.

Option	Description
Only Display Tile	Checked (the default): the tile has no control page. Unchecked: a "..." button on the tile opens the control page.
Auto Enabled	Adds the Auto Close slider, the − and + buttons and the Open w/Auto Close button to the control page (default off; default time 5). They can be used while the TriState is Closed.
Auto Time in Seconds	The Auto Close time is in seconds (default off: minutes). The number is kept when the unit changes, so 6 seconds becomes 6 minutes; sequences built with the other unit must be rebuilt.
Maximum Auto Time	The longest Auto Close time allowed, in minutes, or in seconds with Auto Time in Seconds (default 600). Used only when Auto Enabled is checked.
Only Display Feedback	The state changes only when a Feedback action reports it (default off). When off, the state follows the last button pressed or action run.
Seconds between Fully Closed/Opened	How long Opening is shown before the tile shows Opened (default 5 seconds; 0: Opened at once).
Seconds between Fully Opened/Closed	How long Closing is shown before the tile shows Closed (default 5 seconds; 0: Closed at once).
Enable Stop Button	Shows the Stop button and offers the Stop action (default off). Stop works only while the TriState is moving, so it needs a transition time above 0.
Control Page Title	The title at the top of the control page (default TriState).
TriState Close Icon / Text / Feedback / Transition to Open	The icon, button text and status text for Close, and the text shown while it moves from Closed to Opened (defaults icShadesClosed, Close, Closed, Opening).
TriState Open Icon / Text / Feedback / Transition to Close	The icon, button text and status text for Open, and the text shown while it moves from Opened to Closed (defaults icShadesOpen, Open, Opened, Closing). The Open transition text is also the Auto Close countdown ("Closing in 00:05:00").

Tile Clickable and Only Display Tile are ignored when the tile is shown on the Home screen (Crestron Home allows no touch actions there) or when a Starting Pin Code is set; the tile then opens the control page. Only Display Tile is also ignored when Tile Clickable is off, so the control page stays reachable.

The option names in Setup keep the default words: after Close Text is changed to "Shut", the options are still named "TriState Close Icon", "TriState Close Text" and so on, while the control page, tile and sequence names use "Shut".

Sequences

The TriState adds these actions to Crestron Home sequences. The names shown are for the default text; they follow the text set in the installer.

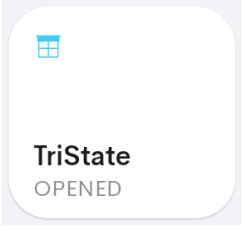
Action	Description
TriState Open / TriState Close	Starts opening or closing, as the Open or Close button does.
TriState Stop	Stops a move part way, as the Stop button does. Offered when Enable Stop Button is on.
TriState Toggle	Opens when closed, closes when open.
TriState Open w/Auto Close	Opens, then closes again after the number of minutes given (Minutes, in the action's settings). Offered when Auto Time in Seconds is off; it works whether Auto Enabled is on or off.
TriState Open w/Auto Close (Seconds)	Opens, then closes again after the number of seconds given (1 to Maximum Auto Time). Offered when Auto Time in Seconds is on.
TriState Feedback Open / Feedback Close	Reports the device's state: the TriState shows Opened or Closed at once, with no transition, and reports the Opened or Closed event. With Only Display Feedback on, these are the only way the state changes; with Auto Close, the timer starts when the Open feedback arrives.
Extension Enable / Extension Disable	Enables or disables the TriState. A disabled TriState shows Disabled and ignores the tile and buttons.

The TriState reports these events, under its name in Customize Actions & Events. Their names follow the moving and feedback text set in the installer.

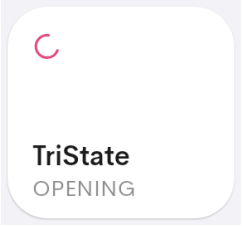
Event	Description
TriState is Opening / TriState is Closing	A move started.
TriState is Opened / TriState is Closed	A move finished, or a Feedback action reported the state. With Only Display Feedback on, only a Feedback action raises them.
TriState is Stopped	Stop was pressed, the tile was touched while moving, or the Stop action ran.
Extension Enabled / Extension Disabled	The TriState was enabled or disabled.
Pin Locked / Pin UnLocked	The PIN keypad locked again, or the right PIN was entered.

End-User Experience

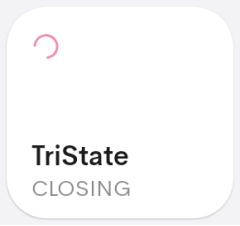
The tile shows the state with its icon and status text: Opened, Opening, Closing, Closed, or Stopped part way. Depending on the options, touching it starts or stops a move, or opens the control page.



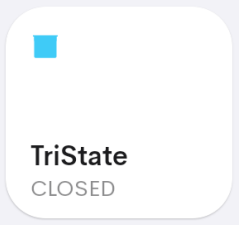
Opened



Opening

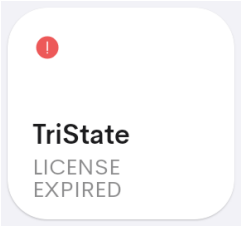


Closing



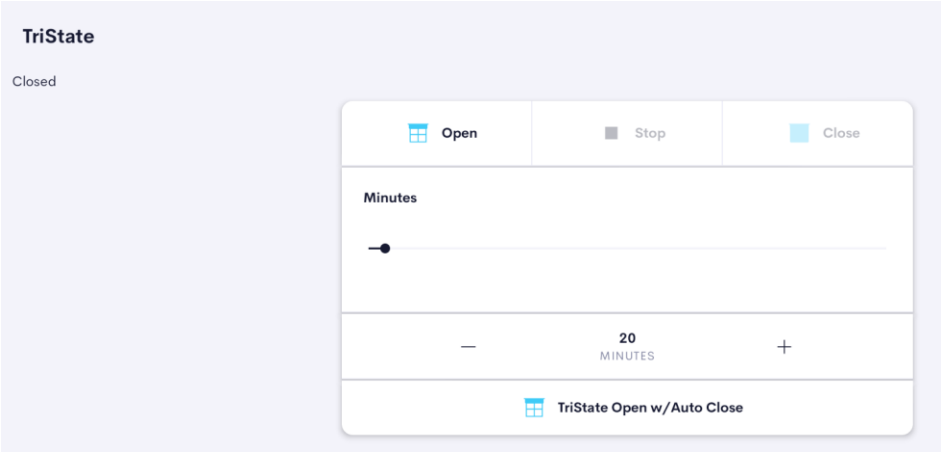
Closed

Without a valid license key or a CPLLC site license, the TriState runs for a two-hour grace period after it starts; then the tile shows License Expired with an alert icon. Entering a valid key, or adding a site license, clears it without a restart.



License expired

The control page has Open and Close buttons (and Stop, with Enable Stop Button on), with the button for the current state greyed out. While the TriState moves only Stop is available; once stopped, the status reads Stopped and both Open and Close are available. With Auto Enabled on, the page adds a Minutes slider (Seconds, with Auto Time in Seconds on), − and + buttons, and an Open w/Auto Close button, used while the TriState is Closed. While the timer runs, the tile and the page show the time left (“Closing in 00:05:00”).



Control page, Closed, with Auto Enabled and Enable Stop Button on

With Only Display Feedback on, a touch or button press shows Opening or Closing for the transition time, then a spinner and “Waiting for Opened Feedback” (or Closed) until the device’s Feedback action runs.

With a Starting Pin Code set, the tile and the control page first show a keypad. A wrong PIN keeps the keypad; entering the PIN and pressing Enter shows the controls. Change Pin opens a second keypad where a new PIN is

entered, then kept with Save or dropped with Cancel. The keypad returns once Seconds Pin Active has passed with no touches.

Known Limitations

- The TriState controls no hardware by itself; it is connected to devices through sequences.
- Position is not tracked: the TriState knows Opened, Closed, moving and stopped, not how far open it is.
- The Opening and Closing times are timers set in the installer, not the device's real travel; use Only Display Feedback when the device reports its own end positions.
- Stop can be pressed only while a move runs, so with a transition time of 0 there is nothing to stop.
- A TriState stopped part way counts as open: after the processor restarts, or an installer option is changed, it shows Opened.

Test Environment

Crestron Home 4.013.0134 on a DIN-AP4-R, set up with Crestron Home Setup (XPanel 2.16.05) and used from the Crestron Home app on Android. Every installer option, the tile and control page, the PIN, Auto Close in minutes and seconds, Only Display Feedback, and the sequence actions and events were tested. This update was tested on the same processor: an upgrade from the previous release (one reconfiguration, settings kept), the tile's Close, Open and Stop part way with their events, and Only Display Feedback with the Feedback actions.

Version History

Date	Version	Changes
2026-11-05	5.00	• Upgrade asks for reconfiguration once (new Obtain License Key link id); settings kept • Only Display Feedback: is Opened / is Closed come with the feedback, not the command • Stopped part way stays Stopped until the next move or feedback • License help: own key or site key; License Manager not required • Obtain License Key opens the TriState page
2026-11-01	5.00	• Enable Stop Button starts unchecked • Maximum Auto Time for Auto Close

Date	Version	Changes
2026-10-31	5.00	• First catalog release, on the CPLLC 5.0 shared libraries • Opening and Closing transition times • Stop part way shows Stopped; Open and Close both available • Auto Close, in minutes or (Auto Time in Seconds) seconds • Waiting for feedback shown with Only Display Feedback • Starting Pin Code also protects the tile • UI built by the extension; no UI definition files • Live debug on and off

Support

CPLLC Site License

A CPLLC site license is one key per processor, entered in the License Manager, that licenses every CPLLC extension and platform on that processor, current and future, so no product needs a key of its own. See the Site License page. Customers who already own CPLLC license keys can upgrade to a site license on the CPLLC website for the difference.

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Website	https://cpllc.net
Product page	https://cpllc.net/product/ui-tile-tristate/

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