eKey Biometrics Driver For Crestron Home

Revision: 2.00
Date: 26 October 2026

Supported Installation

This is a Crestron Home driver for Crestron Home processors. For integration of eKey using the SIMPL programming environment, please refer to Ultamation's specific SIMPL modules and associated documentation.

Description

The extension module provides integration with the eKey Finger Scanner environment by associating events generated from the eKey system with Crestron Home programmable sequences. A single driver is used to present the communication with the eKey IP interface (CV LAN) which in-turn connects to the eKey installation (e.g. Home, Multi, NetV2).

The following events are supported:

- Generic "Open"
  This action will be triggered whenever the eKey system processes a successful "Open" command (i.e. a finger is successfully recognised). This is the simplest integration, but also the least flexible.
- User & Finger Recognition
  Up to 8 specific "patterns" can be recognised and used to trigger specific logic. Each pattern can describe two pieces of information; a user ID and a finger. The patterns can also use "wildcards" to recognise a finger for any user, or a user presenting any of their enrolled fingers. A wildcard used to represent both user and finger is therefore the same as the generic "open".

COPYRIGHT © 2026 ULTAMATION LIMITED

Installation

The eKey CV LAN must be configured to point at the Crestron Home processor and configured with a known UDP port. This configuration is not covered in this help file – please refer to the eKey documentation.

For Net V2 Protocol, only the event **"Switch local relay 1 with day switching"** will send the open command to Crestron Home. Please ensure, if you are using this protocol, that this is the event, to be triggered, inside eKey net admin for the user's finger, PIN Code or RFID.

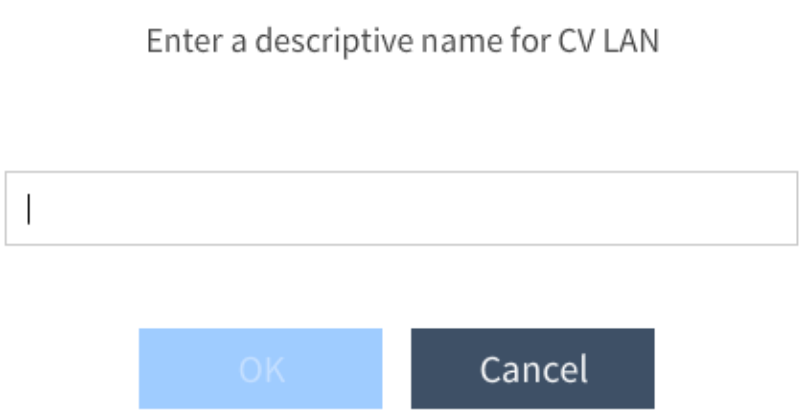
The driver can be found under:

Drivers > Door Access > eKey > CV LAN

Adding the Driver

Ensure a room is selected, and then click on the '+' against the appropriate device.

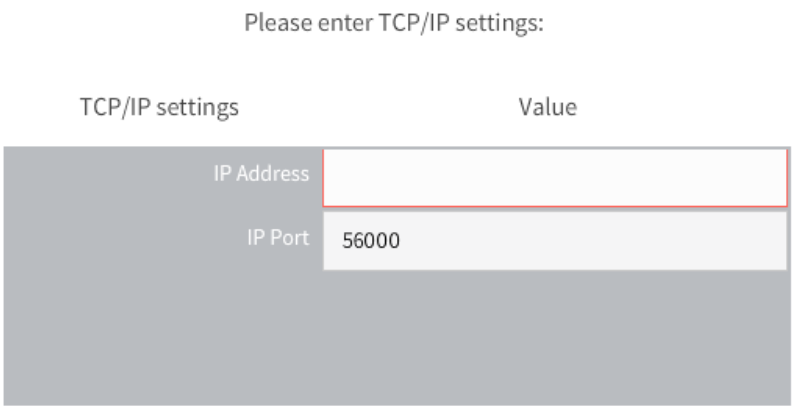
You will be asked to provide a descriptive name – this can be anything you wish.



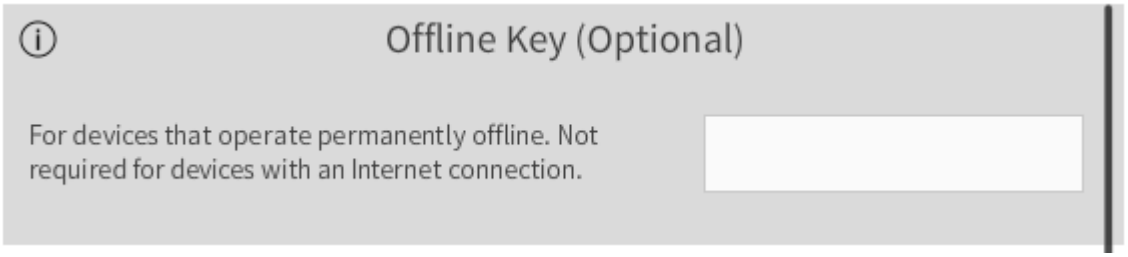
You will then be asked for the IP address of the CV-LAN which will have been set via the eKey configuration tool.

COPYRIGHT © 2026 ULTAMATION LIMITED

The UDP Port should normally be left at the default value unless you have configured your CV_LAN specifically to use a different control port.



The driver is licensed via the cloud, but an optional "offline" key can be requested under special circumstances. Please FIRST refer to the "Licensing" section below and then contact support@ultamation.com if you REQUIRE offline activation. The same offline key can be used for multiple driver instances in the same system.



If you do not have a cloud licence and do not enter a valid offline licence key, the system will function for ONE hour and then control will be suspended. The offline licence key can be entered at any time after initial setup without having to reconfigure each tile.

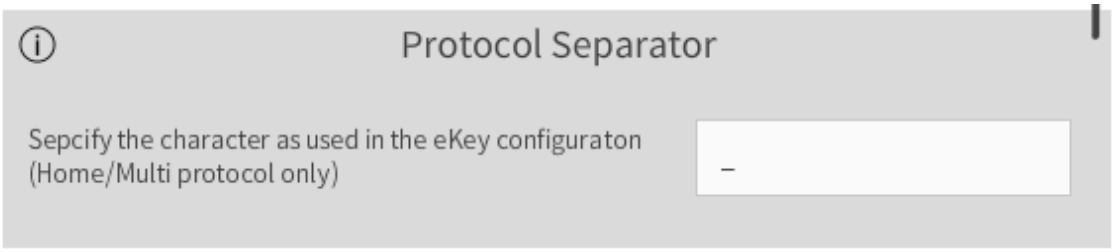
You will also be asked to enter some more settings.

These settings provide additional information required for the correct function of the eKey integration.

The Protocol Separator MUST match the special character defined in the eKey configuration. The default is '_'. If this character is incorrect, the module will be unable to decode the eKey messages. This character is only relevant if the eKey system is configured to use the "Multi", "Home" or "NetV2" protocols. There is another protocol known as "Rare" which does not require the Protocol Separator.

COPYRIGHT © 2026 ULTAMATION LIMITED

“Rare” is the default protocol for the CV-LAN.



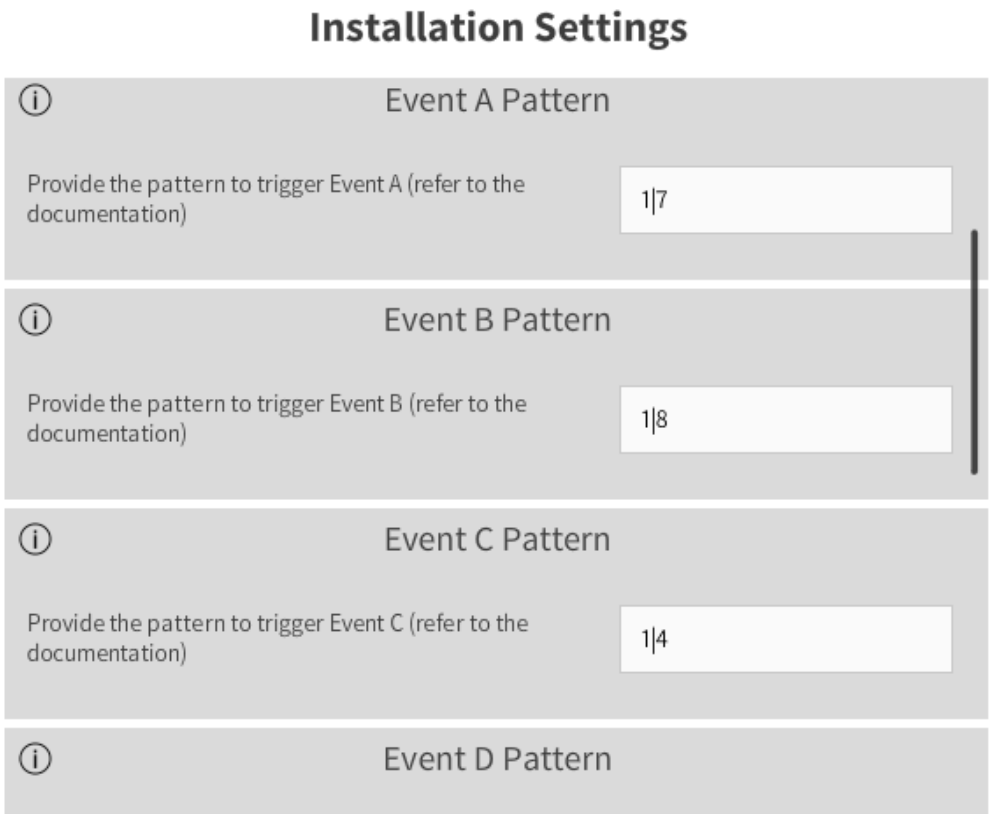
The next series of 8 fields provide a way to assign specific eKey events to actions within Crestron Home. Only valid “Open” actions will be acted upon.

The format is as follows:

<user Id>|<Finger Id>

User IDs are the user numbers assigned when a user is enrolled into the eKey system. For example, if user “Oliver” is assigned to slot 1 in the eKey controller, then specifying 1 on the left side of the pipe (‘|’) will match “Oliver”.

You can also use the special asterisk (‘*’) wildcard for the user id. This will match any valid user.



COPYRIGHT © 2026 ULTAMATION LIMITED

PLEASE NOTE: User ID 1 is reserved for “admin” and IDs 2-100 are reserved “do not use”. Normal user IDs will lie in the range 101-999.

Next MUST follow the pipe (‘|’) separator.

Finally, specify a finger you wish to match using the numeric code below.

- 1 = Left Little Finger
- 2 = Left Ring Finger
- 3 = Left Middle Finger
- 4 = Left Index Finger
- 5 = Left Thumb
- 6 = Right Thumb
- 7 = Right Index Finger
- 8 = Right Middle Finger
- 9 = Right Ring Finger
- 0 = Right Little Finger
- P = Pin Code (For Net v2 Protocol Only)
- @ = RFID (For Net v2 Protocol Only)
- * = Any Finger

Examples:

- 1|7 = User 1, Right Index Finger
- *|5 = Anyone, Left Thumb
- 104|* = User 104, Any finger
- 121|P = User 121, PIN Code (For Net v2 Protocol Only)
- 134|@ = User 134, RFID (For Net v2 Protocol Only)

Leaving a field blank will leave the action unassigned.

Once configured, the Crestron Home UI will show a tile for the eKey system in the room you have configured the device within.

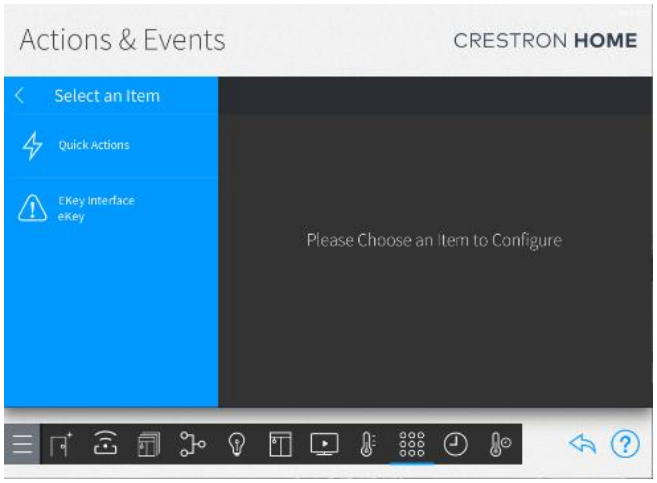
Tapping on the tile will open an informational panel which will indicate the last event received (user id and finger presented) and also explain which protocol has been identified.

The eKey CV LAN can be configured to use Multi, Home, Rare, NetV2 protocols and all are supported. The driver will automatically decipher which protocol is being used.

COPYRIGHT © 2026 ULTAMATION LIMITED

EVENTS

There is no control of the eKey system *from* Crestron Home. Only events from the eKey interface can be used to trigger actions within Crestron Home.



Select the room in which you have added the eKey driver. Then select the eKey device, and assign actions to the available events.

"Finger Verified" is the most generic event which will trigger on ANY "Open" event, regardless of user or finger.

The "Matched Pattern A-H" events are triggered when the pattern matches the specified user/finger. This is described earlier in the document.

The protocol decoding and pattern matching events are logged to the Crestron Home event logger – this, and the processor's error log provide useful information when diagnosing why a particular event does, or does not fire.

COPYRIGHT © 2026 ULTAMATION LIMITED

Support

If you have any issues with an integration solution please let us know by contacting Ultamation support on support@ultamation.com and please include as much detail about your issue as possible, such as a recent processor error log.

Licence verification messages are posted to the error log, so please ensure you have checked this.

Licensing

This integration solution (including software, images and all other associated assets distributed as part of the purchased download package) is licensed on a PER PROCESSOR basis.

A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

This is an electronic product and there is no physical delivery.

The integration solution is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the integration solution's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this integration solution and this will be a separate, purchasable, product.

COPYRIGHT © 2026 ULTAMATION LIMITED

Cloud Licence

This integration solution contacts Ultamation's licensing server at startup. If the server finds a matching licence for the integration solution and processor then the integration solution will be licensed. Otherwise, the integration solution will check the offline licence key. If you purchase a licence **after** you have loaded the integration solution, please reboot the system to see changes take effect.

If you purchased a licence **before** it was migrated to the cloud service, i.e. you have a licence key already, you must enter this into the **Offline Key** user attribute. If you purchased the integration solution **after** it was migrated, and you don't have a licence key, no further action is required.

If no licence exists for the product/processor the integration solution will enter a short trial period (ONE HOUR) to allow for verification of correct control or evaluation.

To request an OFFLINE key, please contact support@ultamation.com with your order details and a brief explanation why you REQUIRE offline activation. Ultamation reserve the right to refuse offline activation.

NOTE: Once an offline key has been issued no further licence changes will be granted. Moving the integration solution to a new processor will require an additional licence purchase.

COPYRIGHT © 2026 ULTAMATION LIMITED