

User Guide

Gateway Driver for Control4 Composer Pro

Version 1.0.5

CLIMAX[®]

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Introduction

This document purposes to demonstrate how to add Gateway driver to Composer Pro Control4 software and use it. Gateway driver for Control4 Composer Pro is the most basic driver provided for Climax products. This driver allows available serial ports to receive and transmit serial data and should be added at the very first stage of designing a project in Composer Pro with Climax products. Number of drivers you are able to add depends on the number of available serial ports on the project Home Controller(s), IO Extender(s), etc. This driver has not been specifically designed for RS-232 GatewayPro Climax module, it also may be used for any other Climax modules connected to Home Controller directly via RS-232 serial port.

Considering that RS-232 GatewayPro is equipped with eight relays as well as one input sensor channel, for using relay and sensor channels you should add Light Switch, Contact Input or Relay drivers for each channel individually and set their module addresses to 1.

Driver Version and File Name

Driver File: Gateway.c4i

Driver Version: 1.6.1

Adding and Activating License

Follow steps 1 to 4 to add and register the driver:

1. Select the driver file (get it from www.climaxgroups.co.uk website) and copy it to control4 driver folder in path below:

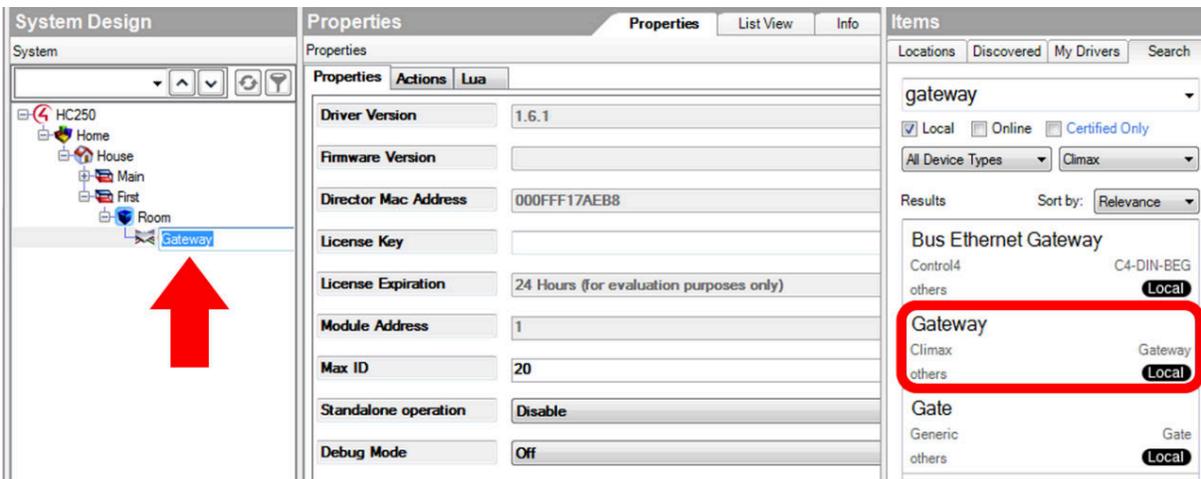
Libraries/Documents/Control4/Drivers

2. Start Composer Pro, go to *Items* view in *System Design* pane. In *All Manufacturers* tab select Climax, then type Gateway on *Search* tab and press Enter. Now find and select Gateway in search results.

Note: Before start searching, make sure that *Local* is checked (as shown in above picture).

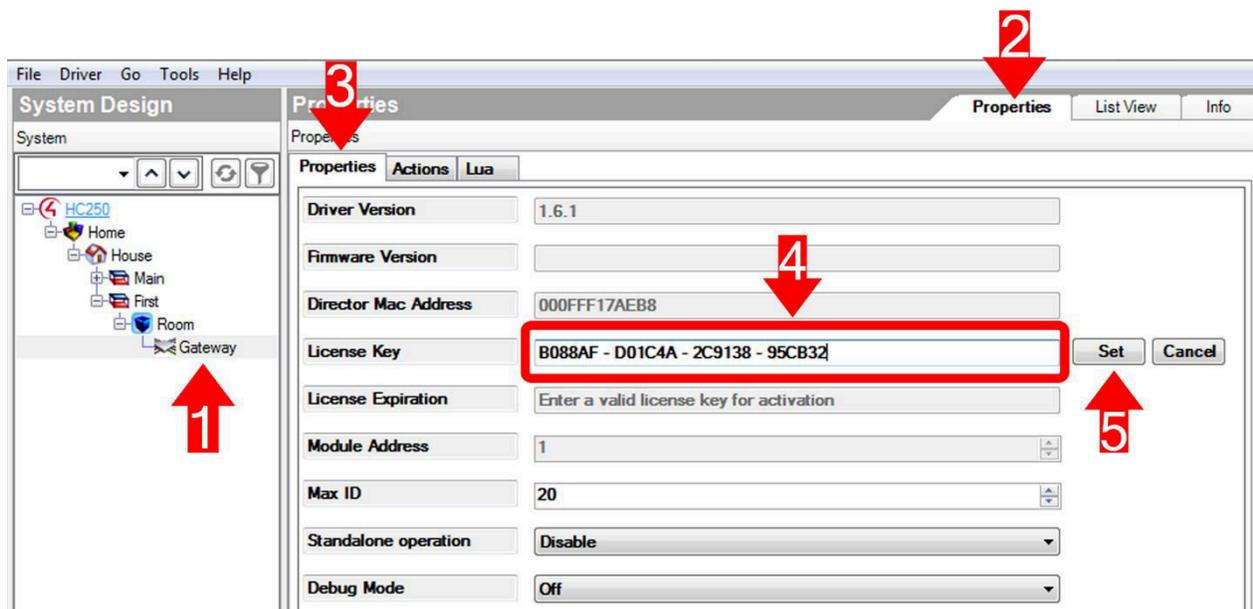


3. Select appropriate room in project tree, then double click Gateway driver to add it to selected room in the current project (Following picture).

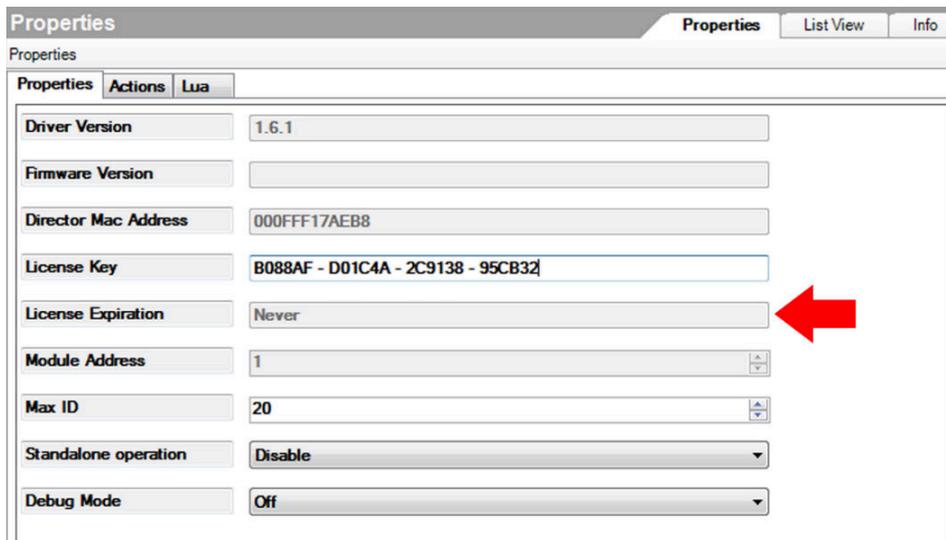


Note: when you add Gateway driver to Composer Pro you have 24 hours to use the evaluation version. After that you need to enter your license key to use the driver.

4. Click *Gateway* on *System Design* pane, then go to *Properties* tab in *Properties* pane and enter a valid key in the blank box next to *License Key*. Click *Set* to apply changes (The order is shown in the following picture).

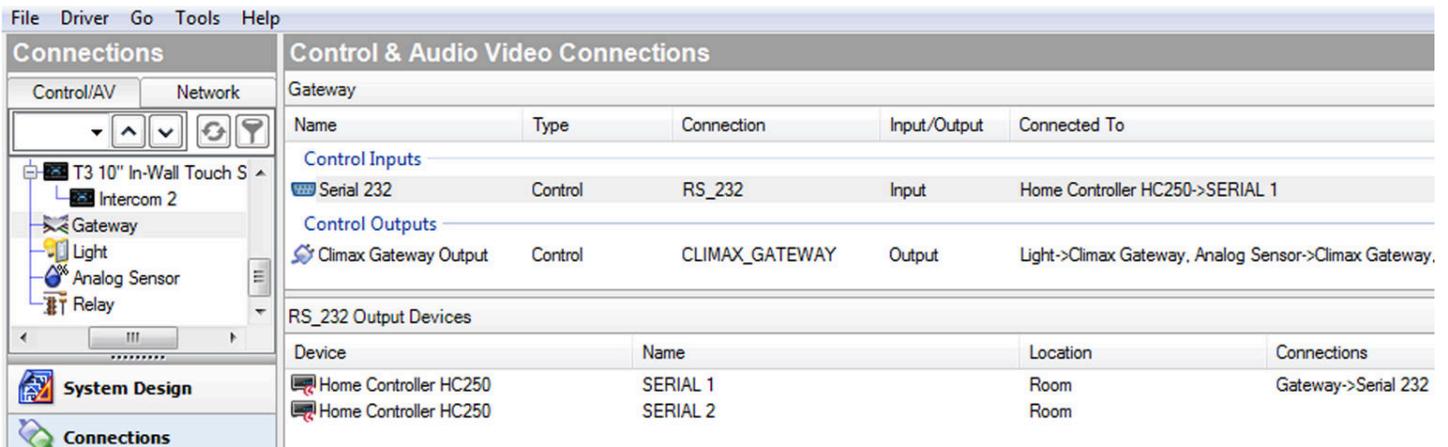


After you set the license key, the *License Expiration* will be changed to *Never* and the driver operates permanently.



Driver Parameters in “Connections” pane

Start Composer Pro, click *Connection* under *System Design*, select *Control/AV* tab and then find and select *Gateway* in project tree. *Control & Audio Video Connections* view will be shown in right side of the window. This view includes two parts. At the top you can see input and output of the driver and at the bottom there will be all available connections for them in the project.



Serial 232 Indicates how driver communicates with project's running *Director*. It should be connected to the desired serial port considering the physical connections.

Climax Gateway Output Indicates a general connection between Climax drivers. It should be connected to any other Climax drivers which will be added later to the project.

Note:

- When you add Gateway driver all connections will be established automatically. If you need to change any connection remember to disconnect old connection first.
- The driver Connections should properly reflect the physical configuration.
- If you want to use more than one Gateway driver in your project, all connections including *Serial 232* and *Climax Gateway Output* must be checked and set manually if needed in order to avoid conflicts with default settings.

Driver Parameters in “Properties” pane

In *System Design* pane select the Gateway driver, then go to the *Properties*. There are three different tabs on *Properties* view namely *Properties*, *Actions* and *Lua*. The items in each tab have been explained in the following sections.

Properties		
Properties	Actions	Lua
Driver Version	1.6.1	
Firmware Version	1.6.1	
Director Mac Address	000FFF17AEB8	
License Key	B088AF - D01C4A - 2C9138 - 95CB32	
License Expiration	Never	
Module Address	1	
Max ID	20	
Standalone operation	Disable	
Debug Mode	Off	

Properties

Driver Version: Version of Gateway driver that has been added to the project. Always use the latest version of the driver that is available on www.climaxgroups.co.uk.

Firmware Version: Version of the firmware of RS-232 GatewayPro Climax module. This firmware is updatable via “Climax Firmware Programmer” software.

Note: This item will be filled after you set the Max ID.

Director Mac Address: MAC address of the Control4 Home Controller which is running the project *Director*. This MAC address should be used when ordering the driver license.

License Key: Enter license key to activate the driver. License can be purchased from authorized dealers or on www.climaxgroups.co.uk.

Note: license is not transferrable to other projects. It has to be purchased for each project individually.

License Expiration: Shows licensing status of the driver. The status will reflect one of the following:

- a. evaluation version which operates for 24 hours
- b. you entered a valid key and it works permanently
- c. you didn't enter a valid key and it is expired.

Module Address: Indicates RS-232 GatewayPro module address which is always set to 1.

Max ID: RS-232 GatewayPro scans all devices in the C-Bus network which their module address is equal to or less than *Max ID*. *Max ID* value can be set from 1 to 31. If there is a Climax module in the project with a module address higher than Max ID, the driver can send the command to that module, but it is not possible for driver to receive feedback and send report to the project Home Controller.

Note: It is recommended to set the *Max ID* value larger or equal to the highest module address in the C-Bus network. If you set the smaller value, the scanning process will be done faster.

Note: After you set the Max ID, if other parameters have been set properly, firmware version will be displayed. If it was not, check power, connections or data cable.

Standalone operation: Specifically created for RS-232 GatewayPro module to disable/enable standalone features.

Debug Mode: Set to *Print* to show the data under the *Lua* tab. It is commonly used for troubleshooting process. *Debug Mode* will automatically return to *Off* after 5 minutes.

Note: Before set the properties, make sure the module is physically installed and running. If not, you have to reset all driver configurations after the module is installed.

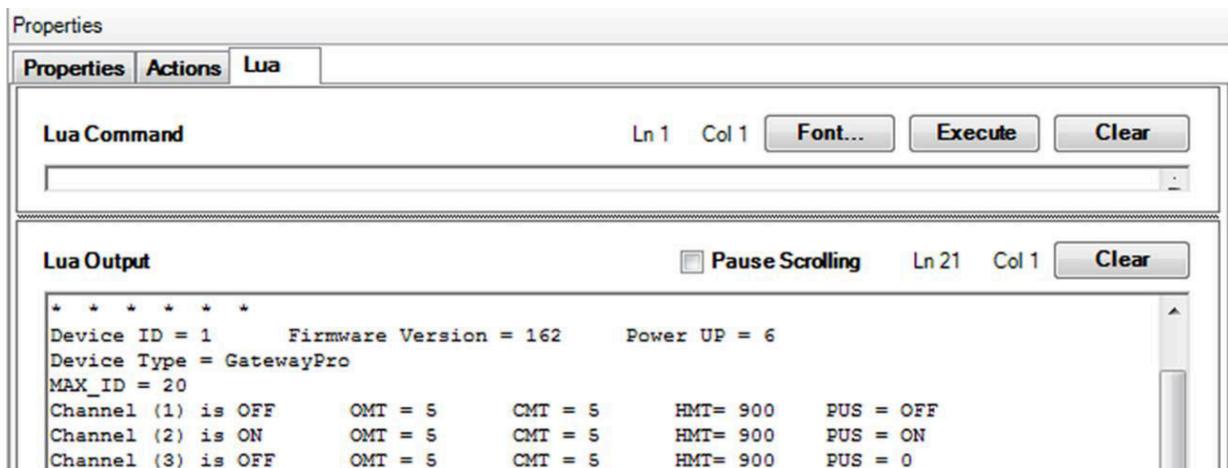
Actions

Actions tab contains button *Scan All Network Devices*. When this button is clicked, Climax module data on the C-bus network-up to set *Max ID*- will be sent to *Lua Output* tab. To make *Lua Output* data visible, you should set *Debug Mode* to *Print* first.



Lua

Lua Output part in *Lua* tab shows diagnostic and status data generated by driver.

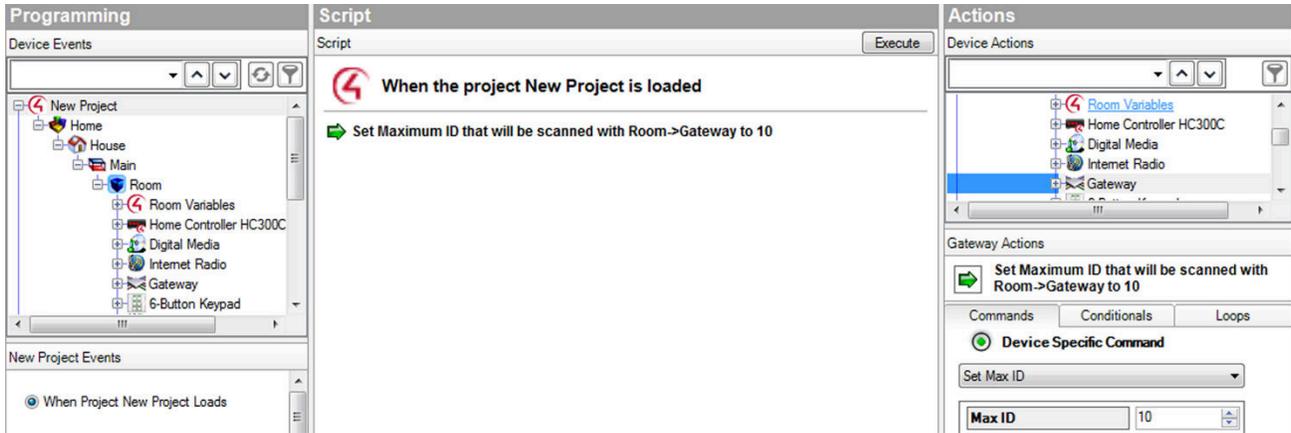


Driver Parameters in “Programming” pane

Driver has no *Events*, but there are a few *Actions* available for it. Start *Composer Pro*, and click *Programming*. In *Actions* view select *Gateway* driver and go to *Commands* tab (There are no *Conditionals* and *Loops* available for this driver). Select *Device Specific Command* to activate parameters. There will be two options available:

Set Max ID: You can change and set the Max ID via sending command in *Programming* pane as well as in driver *Properties*.

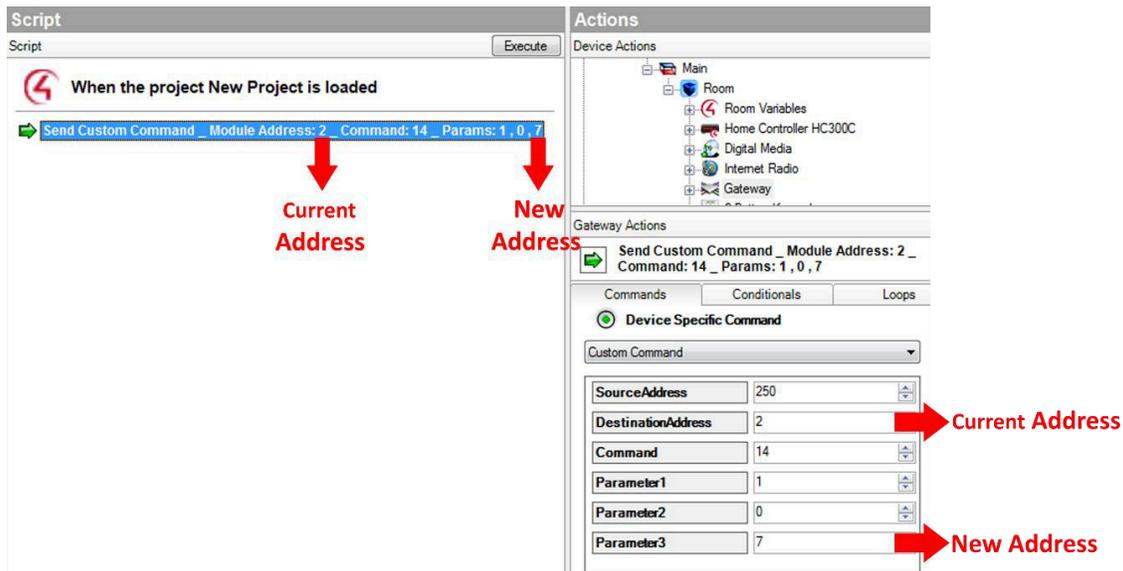
Example: You can command that receiving feedback from some devices get temporarily disabled.



Custom Command: Sends custom commands to any desired devices.

Example: Changing Module Address of a device.

Fill the empty boxes as picture below, press Enter and execute Script. You can use any desired event to send the command.



Warning: Never use the *Custom Command*, if you don't have proper knowledge of programming of Climax products.