User Guide

Gateway Driver for Control4 Composer Pro

Version 1.0.5



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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	Items
www.climaxgroups.co.uk website) and copy it to control4 driver folder in path below: Libraries/Documents/Control4/Drivers	Locations Discovered My Drivers Search gateway
2. Start Composer Pro, go to <i>Items</i> view in <i>System</i> <i>Design</i> pane. In <i>All Manufacturers</i> tab select Climax, then type Gateway on <i>Search</i> tab and press Enter. Now find and select Gateway in search results.	Local Online Certified Only All Device Types Climax Results Sort by: Relevance Gateway
(as shown in above picture).	Climax Gateway others Local



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

System Design	Properties	Properties List View Info	Items
System	Properties		Locations Discovered My Drivers Search
	Properties Actions Lua		gateway -
HC250 Home Home House House	Driver Version Firmware Version	1.6.1	Local Online Certified Only All Device Types Climax
🕀 🔁 Main 🖃 😨 First 🖨 😨 Room	Director Mac Address	000FFF17AEB8	Results Sort by: Relevance
Gateway	License Key	24 Harry 6-2 and all a surgery set a	Bus Ethernet Gateway Control4 C4-DIN-BEG
	Module Address	24 Hours (for evaluation purposes only)	Gateway
-	Max ID	20	Climax Gateway others (Local)
	Standalone operation	Disable	Gate Generic Gate

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).

Destant Destant	1.5			
System Design	Provinties		Properties	List View Info
ystem	Propertys			
• ^ • •	Properties Actions Lua			
HC250	Driver Version	1.6.1		
Home	Firmware Version	1		
🔁 🔁 Main 🖃 🔁 First	Director Mac Address	000FFF17AFB8		
🖻 🐨 Room				
Gateway	License Key	B088AF - D01C4A - 2C9138 - 95CB32		Set Cancel
	License Expiration	Enter a valid license key for activation		
	Module Address	1	* *	5
	Max ID	20		
	Standalone operation	Disable	•	
	Debug Made)	

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

Propertie			Properties	List View	Info
operties					
Properties	Actions Lua				
Driver Ven	sion	1.6.1			
Firmware \	lersion				
Director M	ac Address	000FFF17AEB8			
License Ka	ey	B088AF - D01C4A - 2C9138 - 95CB32			
License E	piration	Never			
Module Ad	ldress	1	(A) (Y)		
Max ID		20			
Standalon	e operation	Disable	•		
Debug Mo	de	Off	•		

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.

File Driver Go Tools Help)									
Connections	Control & Audio Video Connections									
Control/AV Network	Gateway									
- ~ • • •	Name	Туре	Connection	Input/Output	Connected To					
T3 10" In-Wall Touch S	Control Inputs									
Les Intercom 2	wwww.Serial 232	Control	RS_232	Input	Home Controller HC250->SERIAL 1					
Gateway	Control Outputs									
∜i Light ૐ Analog Sensor ≡	💭 Climax Gateway Output	Control	CLIMAX_GATEWAY	Output	Light->Climax Gateway, Analog Sensor->Climax Gateway					
Relay -	RS_232 Output Devices									
	Device		Name		Location	Connections				
System Design	Rome Controller HC250		SERIAL 1		Room	Gateway->Serial 232				
Connections			SERIAL 2		Room					



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.

roperties				
Properties	Actions	Lua		
Driver Ver	sion		1.6.1	
Firmware '	Version		1.6.1	
Director M	Nac Addres	SS	000FFF17AEB8	
License K	ey 🛛		B088AF - D01C4A - 2C9138 - 95CB32	
License E	xpiration		Never	
Module A	ddress		1	A V
Max ID			20	×
Standalon	e operatio	'n	Disable	•
Debug Mo	de		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.

perties																
operties	Actio	ons	Lua													
Lua Com	mand									Ln 1 Col 1	Font		Exe	ecute	Clear	
Lua Outo	ut									Pause 9	Scrolling		Ln 21	Col 1	Clear	-
		*										_				
Device	ID =	1		Firmware	Ve	ersion	= 16	2		Power UP = 6						
Device	Type	= (Gatew	ayPro												
MAX ID	= 20															
			OFF	OMT	=	5	CMT	=	5	HMT= 900	PUS	=	OFF			
Channel	. (1)	13	022	~~~~												
Channel Channel	. (1)	is	ON	OMT	=	5	CMT	=	5	HMT= 900	PUS	=	ON			

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.

Programming	Script		Actions
Device Events	Script	Execute	Device Actions
Device Events	Script When the project New Project is loaded Set Maximum ID that will be scanned with Room.>Gateway to 10	Execute	
Constant Andra Constant Andra Constant Andra Constant Andra Constant Andra Cons			Gateway Actons Set Maximum ID that will be scanned with Room->Gateway to 10 Commands Conditionals Loops Device Specific Command Set Max ID Max ID 10

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.

Script		Actions			
Script	Execute	Device Actions			
When the project New Project is loaded	ırams: 1 , 0 , 7		oom Room Variables Home Controller HC300 Digital Media Internet Radio	c	
Current	New	Gateway Actions			
Address	Addres	Send Custom C Command: 14	Command _ Module A _ Params: 1 , 0 , 7	ddress: 2 _	
		Commands	Conditionals	Loops	
		O Device Specifi	ic Command		
		Custom Command		•	
		SourceAddress	250	÷.	
		DestinationAddress	2		Current Address
		Command	14		
		Parameter1	1	-	
		Parameter2	0	A	
		Parameter3	7		New Address

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