

Agora Controller User manual

Software version 2.3.X

(Ghost, Ghost Mk2, Ghost Mk2-HDC, Fast2, H1 firmware 1.10.16 and above, I-series)



AGORA

45, route de la Cassette

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In accordance with the company policy of continuous upgrade and products improvement, specifications and functions are subject to change without prior notice. This document was true at the time of writing, please contact our local distributor or visit our website to date with the latest updated versions.

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1. Introduction

Agora Controller is the software of Agora devices control and configuration software. This software is based on a two-layer application:

- Archon is the background service which connect the software to devices
- Agora Controller is the front-end user interface for configuring Agora devices

Agora Controller will run on 64 bits processors on Windows 7 to 11, MacOS 10.5 and later and Linux.

To be discovered and managed by Agora Controller, **Ghost series**, **F series** and **H series** devices must be **updated in 1.10.16** (or above) firmware version.

For **I-series**, please refer to the specific installation procedure documents.

To update the Agora units from the **legacy firmware versions 1.6.x, 1.7.x and 1.8.x** to the new ones please download **Agora Firmware Updater (Windows .exe)** and follow the specific instructions.

For the specific hardware features and service instructions please consult the dedicated user's manuals.

agora-network.fr

The first time you'll connect Agora Controller to a legacy device you'll need to do a Factory Update. Please refer to the 3.5 chapter to do it.

WARNING: AFTER DOING A FACTORY UPDATE ON A LEGACY DEVICE PLEASE NOT THAT YOU'LL NEVER BE ABLE TO USE GHOST MANAGER SOFTWARE AGAIN. THE LEGACY COMMUNICATION PROTOCOL IS TURNED OFF.

Key points:

- Agora Controller is a 64 bits software for Windows (7 to 11), Mac OS 10.5 and later, Linux
- Agora Controller can control Ghost, Fast and H devices with firmware version 1.10.16 and above and I-series
- Ghost Manager software does not support Agora devices anymore

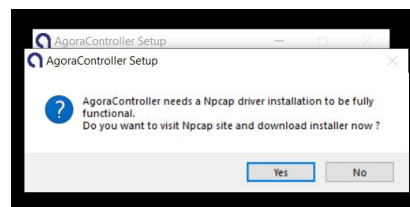
2. Getting Started

2.1. Download and install the latest version of “AgoraController Setup 2.3.X.exe” (from Windows 10) or “AgoraController-2.3.X.pkg” (from MacOS 10.15)

2.2. Agora Controller 2.3.X on Windows now needs the Npcap driver (from 1.7x) to be installed.

The installer will check if Npcap is already installed.

If it's not the case, it will invite you to visit Ncap site and install it.



2.3. **Reboot** your computer after first installation.

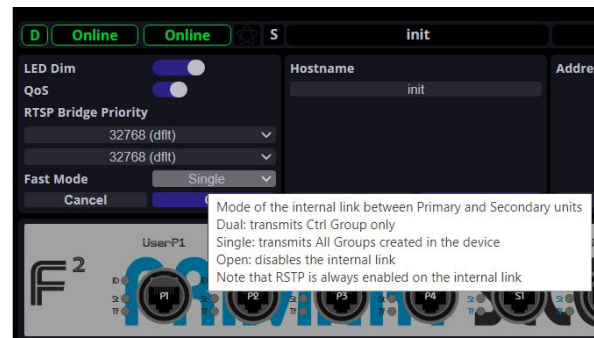
2.4. Connect your computer Ethernet card to a Control port of your one of your Agora devices.
Launch Agora Controller.

2.5. Once the **Interface** (network adapter) is **selected**, Agora devices will automatically appear:



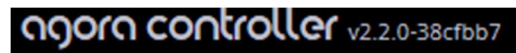
2.6. Text help:

You will find many “text help” by mousing over the different sections of Agora Controller



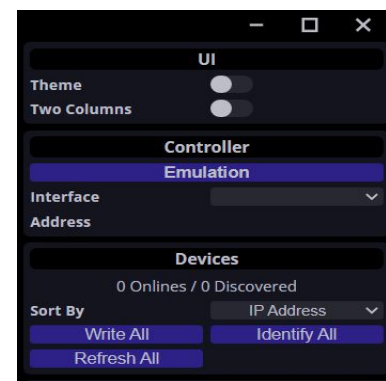
2.7. Software header:

Click on version number shows the software licenses



2.8. UI section:

- **Theme:** Choose Dark or Light theme
- **Two Columns:** Display the devices in two columns instead of one.



2.9. Controller section:

- **Emulation** mode : see section 9.
- **Interface:** Select the network adapter connected to the Control port
- **Address:** Shows your computer's IPv4 address

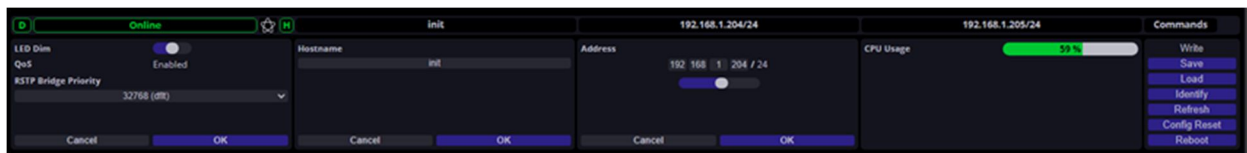
2.10. Devices section

- Shows X Online / Y Discovered
- **Sort by** : Sort devices by selected criterium : MAC address, IP address or Hostname
- **Write All** : Save settings in all devices' memory
- **Identify All** : Make all devices blink
- **Refresh All** : Rediscover the network

Key points:

- The computer running Agora Controller must be connected to a control port of one of your Agora devices
- The dedicated network adapter must be selected by the interface dropdown list
- Network discovery is automatic and does not depend on your IP configuration
- Emulation mode is an offline editor

3. Device header



- “D” means that the device is Discovered by the software.

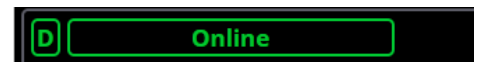
NB: Agora devices discovery is done by regular IP multicast packets @239.192.0.94:5055 in Ctrl VLAN (256)

- “N” means that the device is Not discovered anymore by the software (device lost)

NB: This can be caused by physical disconnection or high bandwidth multicast traffic sent by error in one Control port.

Devices in N status longer than 10s can be deleted by clicking on X

3.2. Connection status



- **Online** : the device is ready to be configured and monitored.
- **Online** (Dotted square) :the device processes changes. Refresh all or change adapter is forbidden.
- **Busy** : parameters changes are still in progress
- **Offline** : if Discovered, an IP configuration is needed (3.4)

If not Discovered, the Device is rebooting or has been lost.

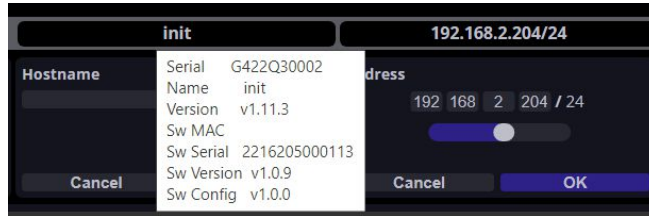
- **Init / Sync** : initialization of communication and synchronization of the device state.
- **NeedsUpdate** : the device needs a Config update (3.5)
- **NeedsFirmware** : the device needs a Firmware update (3.5)
- **Updating** : Factory reset is in progress



NB: Non green status leads to a blurred device, meaning that no change is possible

3.3. Bridge settings


- **Device hostname** Edit hostname (up to 24 alphanumeric or . characters) by clicking on the header and **validate by OK or enter**.
- Device's information is displayed by mousing over the hostname field in the device header:
Orange hostname means that configuration file of the switch is not up-to-date (see 3.5)



- **RSTP Bridge Priority** Edit the Bridge Priority for RSTP (32768 is the default)

Lowest Bridge Priority (or lower MAC address if equal priorities) becomes the Root Bridge for the entire network (Group independent)

Shows “this bridge ID”, the current Root Bridge ID and its hostname and address if it’s an Agora device.

The  symbol is highlighted in the current Root Bridge header

3.4. IP address




Shows current device IPv4 address in Ctrl group (management)

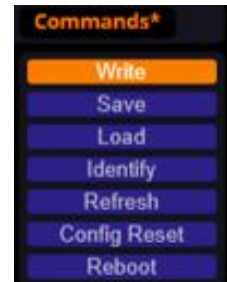
Edit IPv4 address and subnet mask (Network prefix length /16 to /31) by clicking and validate by OK.

To IP subnet mismatch between the devices and your Ethernet card will be detected and shown in **orange** in IP address section.

- **IP address conflicts** will be detected and shown in **red** in the IP address section.

3.5. Commands:

- **Write** save settings in device memory
Write* and **Commands*** mean that latest changes have not been saved.
Save / **Load** save or load device settings in or from a file (.agf) See section 9.
- **Identify** device front panel flashes: Ghost/H1 series: IP address and hostname on LCDs, Fast2: Green led.
- **Refresh** Read all parameters from device.
- **Config Reset**
Load the default configuration file in the device.
 Clear all settings: Groups, Ports and IP address.
An alternative method to clear a device: delete all groups.
Hostname, Port labels and IP address will be kept.
- **Config Update** With **NeedsUpdate** status: Device configuration needs to be Updated to work with this version of Agora Controller.
 IP address and all settings will be reset to default configuration
Use the Save function before to keep your device settings
- **Firmware Update** With **NeedsFirmware** status: Firmware of MCU, switch or H-DC card need to be Updated to work with this version of Agora Controller.
- **Reboot** Reboot the device without saving in device memory.
 In **Write*** status, last changes will be **lost after power cycle**



NB: When the device is **Discovered** but “**Offline**” due to IP mismatch or conflict, **Identify** is possible (except for I-series)

3.6. Additional device header functions:

- **LED Dim** adjust brightness of ID, Status and Traffic leds.
- **QoS** Quality of service is always enabled and based on Group modes.
It uses “Class of traffic to Queue” strategy.
- **PTPv2 Transparent** I-2930m only : enable PTPv2 End-to-End Transparent clock capability for all ports, including SFP and optional SFP+ ports
- **gPTP Priority 1** I-4x50 and AVB switch mode only: Lower Priority or lower MAC becomes gPTP Grandmaster clock for the AVB domain.
- **GM ID** I-4x50 and AVB switch mode only: extended MAC of the elected gPTP Grandmaster
- **GM Priority 1** I-4x50 and AVB switch mode only: value of Priority 1 for the elected gPTP Grandmaster
- **Fast Mode** (Fast2 only) Mode of the internal link between Primary and secondary units.
 - **Dual**: transmits Ctrl Group only
 - **Single**: transmits All Groups created in the device
 - **Open** : disables the internal link
- **CPU** Show current and average CPU utilization.
- **POE** (Ghospit and I-series only) POE+ usage (%) and Available Power (W) are shown.

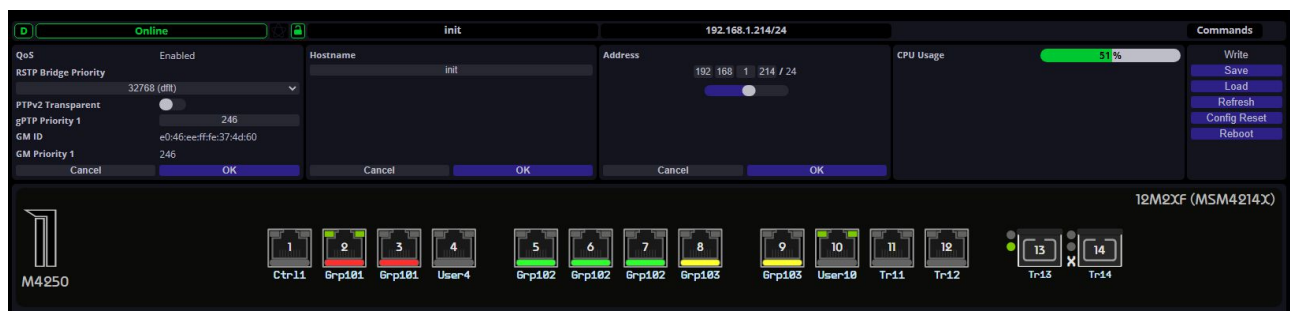
3.7. I-series locked/unlocked status:



- I-series device discovered but no valid key file is present on this computer.
All parameters of this device are locked.
Any Group parameter change or delete is forbidden if Group is assigned to this device.
Click on this icon to open dialog box and install the key file.



- I-series device is discovered and a valid key file is present on this computer.
Shift+Click to open dialog box and uninstall the key file.



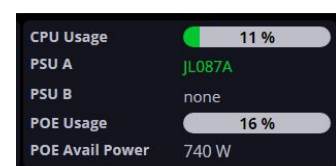
3.8. I-2930m PSU status

I-2930m devices show the recognized PSU models in slots A and B

Green: Present and Powered

Grey: Present and not powered, or none

Red: PSU error. This can either be a faulty module or two different modules detected in slot A and B (non-redundant status)



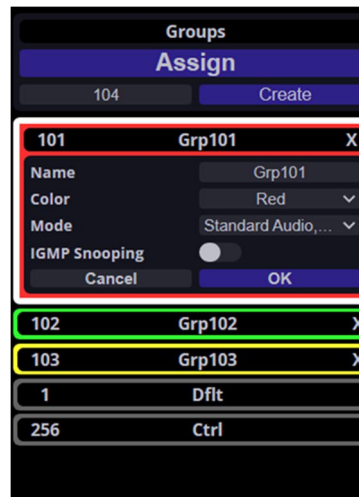
Key points:

- When a device is discovered the “D” letter appears in green on the left of the header
- An offline device can be discovered but not managed before being “Online”
- An orange status means the device is waiting for a full synchronization
- Only an “Online” device is fully manageable
- The “Write” function save the running configuration in the saved configuration (RAM>Flash memory). In case of reboot, unsaved parameters will be lost.

4. Groups

A Group is a set of settings concerning VLAN Id, Group Color (ID Led), Protocol mode and IGMP.

- **Group 1** (VLAN 1) is the default (**Dflt**) group for all User and Transmit ports
- **Group 256** (VLAN 256) is the control (**Ctrl**) group for Agora devices management. All Transmit and Control ports are assigned to Ctrl group.



4.1. Add groups by clicking on **Create** button.

VLAN IDs are automatically incremented from the user defined value (101 by default)

Name and Color are automatically set but can be changed by Group edit.

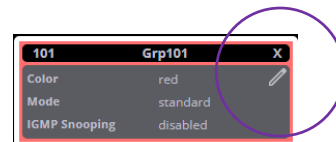
4.2. Delete group by clicking on **X** and confirm. Shift + Click deletes quickly without confirm.

4.3. Click on Group header shows Group status: Color, Mode, IGMP Snooping and Querier

- **Querier** status:
 - **None**: No Querier among Agora devices is assigned in this Group.
One Querier **MUST** be assigned per Group otherwise **multicast traffic will be blocked**.
 - **Assigned**: One of the Agora devices has been assigned as Querier
 - **Multiple**: Several Queriers are found on this group: it has to be unique
 - **Offline**: the assigned Querier is currently "Offline". **Multicast traffic will not be guaranteed**.

4.4. Click in the Group section allows Group edit, Validate by Ok

- **Name** up to 8 alphanumeric, _ or . characters
- **Color** Software and Front panel ID Led color associated to the Group



- **Mode** 9 Group settings templates based on protocols requirements are available:
 - **Standard Audio, Lighting & Control**
 Dante unicast, Artnet, NDI unicast and any TCP/IP control protocol
 IGMP snooping is disabled
 Flows and PTP are allocated to special priorities
 - **Multicast Lighting**
 sACN or other multicast lighting protocol
 IGMP snooping is mandatory
 Flows are allocated to special priorities
 - **Multicast Audio**
 Dante multicast, AES67 (ST3110-30), Ravenna
 IGMP snooping is mandatory
 PTP is statically authorized. Flows and PTP are allocated to special priorities
 Forward all is enabled on transmit ports
 - **Multicast Video**
 NDI multicast and any Video over IP multicast protocol
 IGMP snooping is mandatory. IGMP Fast Leave is enabled
 PTP is statically authorized
 Flow control is enabled
 - **Intercom**
 Intercom systems using AoIP and DECT
 Flows and PTP are allocated to special priorities
 IGMP snooping is mandatory
 PTP is statically authorized.
 PTPv2 is mandatory on PTP aware devices (I-series)
 Forward all is enabled on transmit ports
 - **AVB / TSN Tunnel**
 AVB point to point tunneling [Only Ghost Mk2 H-DC supports this mode](#)
 IGMP snooping is mandatory (for other traffic)
 Flows and PTP are allocated to special priorities. gPTP is activated
 (see Gmk2 user manual for further explanations)
 - **AVB switch**
 AVB bridge mode [Only I-4250 and I-4350 support this mode](#)
 IGMP snooping is mandatory (for other traffic). Only one AVB mode per device
 Flows and gPTP are allocated to special priorities. gPTP is activated
 - **Allen & Heath gigaACE**
 gigaACE or S Link (1G) point to point tunnel (from A&H firmware XX)
[Only Ghost Mk2 equipped with 10G fiber ports support this mode](#)
 Streams are allocated to special priorities
 IGMP snooping is forbidden
 - **Legacy 100Mbps Audio**
 Ethersound, CobraNet or other audio over ethernet (non PTP based)
 100Mbps speed is selected by default (auto is user configurable)
 Streams are allocated to special priorities. IGMP snooping is forbidden

IGMP Snooping (see 10.Software alerts)

- enabled: IP multicast traffic is forwarded to subscribers only
- disabled: IP multicast traffic is forwarded to all ports in this Group

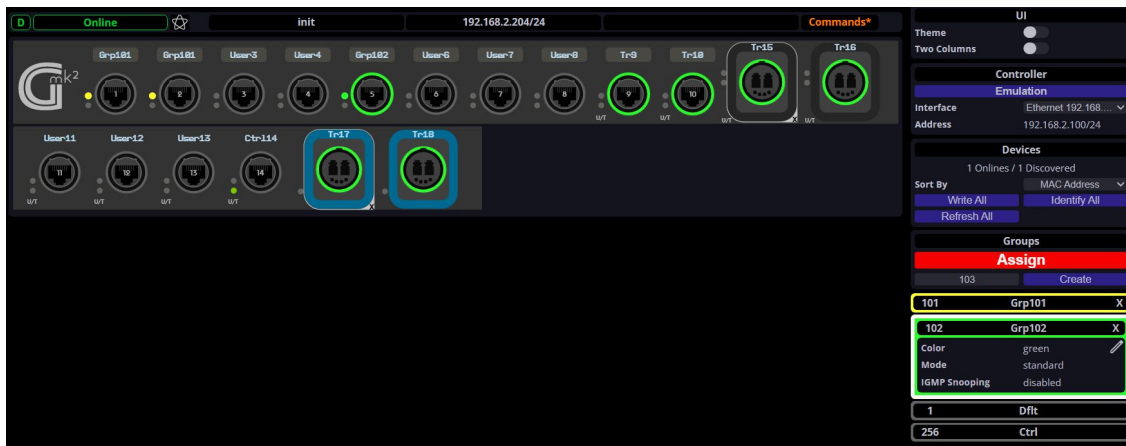
- **Query Interval** Time in seconds between 20 and 300.

NB: No Querier election mechanism is used with Agora devices. Querier IP is automatically computed.

Key points:

- The Group ID is the IEEE 802.1Q VLAN ID
- Agora Controller allows to manage up to 250 Groups in a unique session
- All the IEEE 802.1Q VID range is available except VID1 (Default VLAN), VIDs 255&256 (Agora service and management)
- An "IGMP" enabled Group needs to have one Querier assigned
- The Group mode is a pre-configured template for optimisation some specific protocols.

5. Port assignment




4.1. Click on the Group then on the **Assign** button in the Groups section. The button flashes in Red

4.2. Click on a **User** port of a device to assign this port to this Group.

Port Label follows “Group name” unless it was already edited.

4.3. All **Transmit** ports of this device are automatically assigned to this Group. (Unassign by clicking).

4.4. **IGMP Querier**  for this Group is automatically assigned during the first User port assignment.
Assign another device by clicking on IGMP Querier object.

4.5. Click again on already assigned User ports: the port is reassigned to Default group (Dflt: VLAN 1).

4.6. Transmit ports are always assigned to “Dflt” (VLAN 1) and “Control” (VLAN 256) group

4.7. Exit assign mode by clicking on **Assign**

Key points:

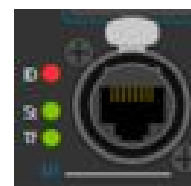
- A VLAN is untagged by User ports by Group assignment
- A VLAN is Tagged by Transmit ports by Group assignment
- The “Querier” object is assignable to a VLAN with the same process as a transmit port
- To assign a port or a querier to a VLAN, click on click on the concerned Group > click on “Assign” > click on each Port or Querier you need to assign
- During the assignment process all the members (Group, Ports, Querier) flashes in the group colour
- Out of assignment mode, by clicking on a group in the right column all the members (Ports & Querier) are highlighted with the group colour

6. User Port focus



5.1. Port leds

- **ID** (user ports only) : show Group color
- **St** status of the port : green = up (connected), grey= down (disconnected)
- **Tf** maximum of Rx/Tx utilization
- **Ghost Mk2 only** : St and Tf on one unique Led



NB (software only): **green** = < 65%, **orange (blinking)** = 65-80%, **red (blinking)** = > 80% or increasing drops

5.2. Click on a User port to open the Edit window. Validate any change by Ok.

5.3. **Group** Shows the assigned Group (Untagged VLAN)

5.4. **Label** Edit Port Label

5.5. **IGMP Mode** available only when IGMP snooping is enabled in the Group

- **Normal**: IP multicast traffic is forwarded to this port based on IGMP membership reports
- **Fast Leave**: Leaving a multicast group is immediate. Recommended for high bandwidth protocol such as Video over IP
- **Forward** : All multicast traffic is forwarded

See 10. Software Alert

5.6. **Enable** Shutdown the port when disabled

5.7. **Line** State of the port

- **Up** : the port is connected and active
- **Down**: the port is disconnected

5.8. **Speed** Select the speed of the port

- **Auto** : uses Autonegotiation mechanism
- **10 Mbps, 100 Mbps, 1 Gbps** : force the speed, duplex mode is auto

5.9. **Status** Shows the current speed of the port

5.10. Power Over Ethernet (POE+) (Ghostπ only)

- **POE On** Enable/disable
- **Priority** Critical: level ports are provisioned before "High" level ports. "Low" level ports are provisioned only if there is power available after provisioning any active PoE ports at the higher priority levels
- **Power Usage** Allocated power by this port.

5.11. **Rx** shows the current received bitrate by the port (in b/k/M/Gbps)

5.12. **Tx** shows the current transmitted bitrate from the port (in b/k/M/Gbps)

NB: **green** = < 65%, **orange** = 65-80%, **red** = > 80%

5.13. **Unicast (Rx | Tx)** average number of unicast packets per second

5.14. **Multicast (Rx | Tx)** average number of multicast per second

5.15. **Broadcast (Rx | Tx)** average number of broadcast packets per second

5.16. **Drops** total number of dropped frames since refresh / number of dropped frames per second

NB: dropped frames caused by undersized packets or CRC errors

Key points:

- A "User" port is dedicated to connect end points devices
- Fast Leave mode avoids bandwidth overload especially with Multicast Video over IP
- Forward all Multicast must be used only if IGMP devices needs to receive unregistered multicast stream (troubleshooting)

7. Transmit ports focus



6.1 Groups list of transmitted Groups (Tagged VLANs)

Dflt (VLAN 1) and Ctrl (VLAN 256) are transmitted by all Transmit ports

6.2 Rapid Spanning Tree protocol (IEEE 802.1) is enabled by default on all Transmit ports

This allows topologies with **redundant links**

RSTP Priority

Prioritize a port when multiple links exist between two devices.

The lowest prioritized "Designated" port (closest device to the Root Bridge) will have its traffic forwarded by the other device.

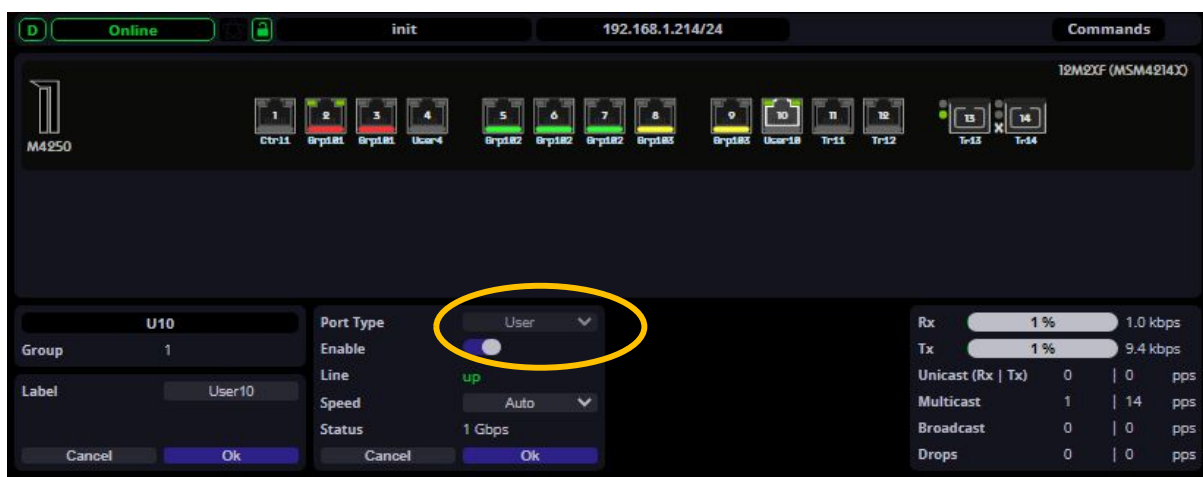
Higher priorities will be discarded.

When priorities are equal, same rules with port numbers (#)

NB: changing RSTP Priority cause traffic interruption. A confirmation is required.

6.3 Port type Depending on the device model, some ports can be User, Transmit or Control (see Chapter 8. table)

NB: Changing port type is not allowed when the port state is "Up" (connected)



6.4 Fiber ports (optional)

- Ghost2, Ghost PI, Fast2 and H1 have optional fiber ports with **fixed speed** at 1 Gigabits/s,
Fiber mode: Singlemode or Multimode
- Ghost Mk2 has optional fiber ports with, chosen at purchase for each port:
 - **fixed 1Gbps** transceiver, or selectable “Dual speed” **10Gbps/1Gbps** transceiver.
 - Fiber mode: Singlemode or Multimode.



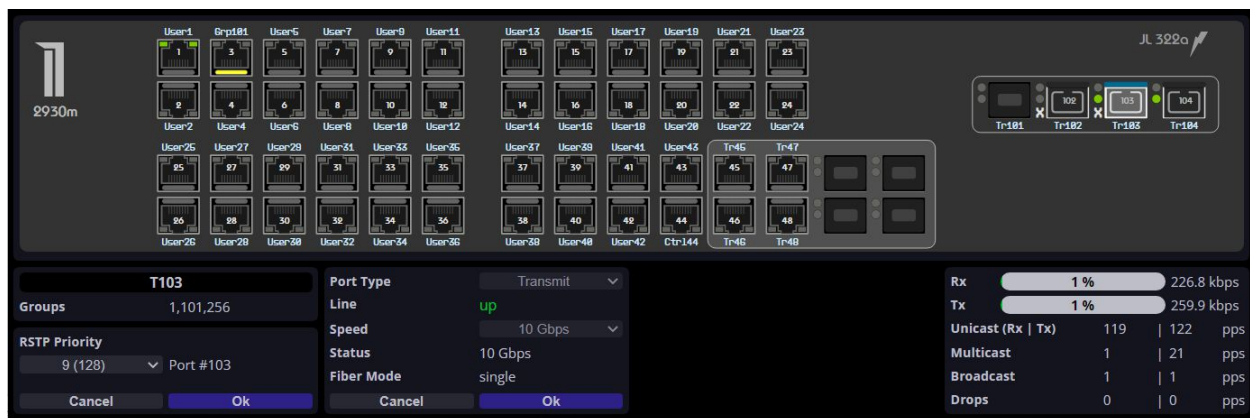
- I-2930m series have **4 SFP fixed 1Gbps** ports on “Dual personality ports” or “Combo ports”
NB: on Combo ports, when a transceiver is detected, the RJ45 is deactivated.

Optional: j1083a module can be equipped with up to **4 SFP (1gbps) or SFP+ (10Gbps)** transceivers

Fiber mode: Singlemode or Multimode

Please refer to I-2930m datasheets for transceiver compatibility list.

NB: if you change transceiver speed, Agora Controller must be launched once to validate SFP/SFP+ port speed.



Key points:

- Transmit can be assigned to multiple groups at a time
- It is dedicated to connect to other Transmit ports
- Transmit ports are RSTP enabled to manage redundant topologies

8. Ports configuration

See below Port type possibilities and Default configuration depending on device model:

G-mk2																		
ports	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Default Config	U	U	U	U	U	U	U	U	T	T	U	U	U	C	T	T	T	T
User Capable																		
Transmit Capable																		
Control Capable																		
PTP v2 TC aware																		
PoE+ Capable																		
H-DC Capable	Optional																	

Ghost 2 / Ghost π / Ghost X																	
ports	U1	U2	U3	U4	U5	U6	U7	U8	U9	U10	U11	U12	T1	T2	T3	T4	Ctrl
Default Config	U	U	U	U	U	U	U	U	U	U	U	U	T	T	T	T	C
User Capable																	
Transmit Capable																	
Control Capable																	
PTP v2 TC aware																	
PoE+ Capable	π	π	π	π	π	π	π	π	π	π	π	π					

FAST2																
ports	P1	P2	P3	P4	P5	P6	T1	T3	S1	S2	S3	S4	S5	S6	T2	T4
Default Config	U	U	U	U	U	C	T	T	U	U	U	U	T	T	T	T
User Capable																
Transmit Capable																
Control Capable																
PTP v2 TC aware																
PoE+ Capable																

H1									
ports	U1	U2	U3	U4	Int.P	Int.S	T1	T2	T3
Default Config	U	U	U	C	U	U	T	T	T
User Capable									
Transmit Capable									
Control Capable									
PTP v2 TC aware									
PoE+ Capable									

I-2930m JL319a				
ports	1-19	20	21-24	Rear Slot
Default Config	U	C	T	T
User Capable				
Transmit Capable				
Control Capable				
PTP v2 TC aware				
PoE+ Capable				

I-2930m JL320a				
ports	1-19	20	21-24	Rear Slot
Default Config	U	C	T	T
User Capable				
Transmit Capable				
Control Capable				
PTP v2 TC aware				
PoE+ Capable				

I-2930m JL321a				
ports	1-43	44	45-48	Rear Slot
Default Config	U	C	T	T
User Capable				
Transmit Capable				
Control Capable				
PTP v2 TC aware				
PoE+ Capable				

I-2930m JL322a				
ports	1-43	44	45-48	Rear Slot
Default Config	U	C	T	T
User Capable				
Transmit Capable				
Control Capable				
PTP v2 TC aware				
PoE+ Capable				

I-4250 POE				
ports	1	PoE ports	Non Poe ports	SFP/SFP+
Default Config	C	U	T	T
User Capable				
Transmit Capable				
Control Capable				
PTP v2 TC or gPTP				
PoE+ Capable				

I-4250 non POE			
ports	1	Copper ports	SFP/SFP+
Default Config	C	U	T
User Capable			
Transmit Capable			
Control Capable			
PTP v2 TC or gPTP			
PoE+ Capable			

9. Save/Load file - Emulation



Online device settings can be saved (exported) in a file (.agf extension for “agora file”)

- Click on **Save** Current settings are saved, even if device is in **Write*** status.

Notes:

- Default file name is Model-Hostname. e.g: *fast2-init.agf*
Manage carefully Hostnames or file names for better clearness.

Online device settings can be overwritten by loading from a .agf file.

- Click on **Load** and Confirm. File settings are loaded.

Notes:

- **IP** address is **not changed** by Load function
- **Hostname** is **changed** by Load function
- Connected (**Up**) ports will **not change** their **Port type** (User, Transmit, Control)

Always think to **Write all** your devices to keep your settings after power cycle.



By selecting **Emulation** mode, Agora Controller will allow you to create virtual devices.

In this mode, you can emulate any Agora device by selecting its Model and Options in the list and clicking on **Create**

Notes:

- Group and port assignment are exactly the same as explained in the former sections.
- IP addresses is not used for Virtual devices, as they may not be relevant in an Offline context.
- Save/Load functionalities are exactly the same as explained above for Online devices
- Contrary to Online hostnames, Virtual hostnames must be unique. By default: 01,02,03, etc...
- Use your own Hostname strategy for a better filing clarity.

Key points:

- Save/Load functions allow to export/import device settings to/from a .agf file
- Emulation mode is an Offline editor for Virtual devices. It also allows Save/Load functions

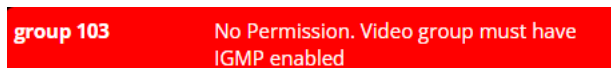
10. Software alerts

Agora Controller will alert you when an action is needed, mandatory or forbidden.
Orange color concerns non critical alerts.
Red color concerns critical alerts.

General alerts



Example of orange alert: it is forbidden to change the IP address of an Agora device if this address is already used



Example of red alert: it is forbidden to disable IGMP on Multicast Video mode

Confirmation alerts



Example of confirmation box when deleting a Group

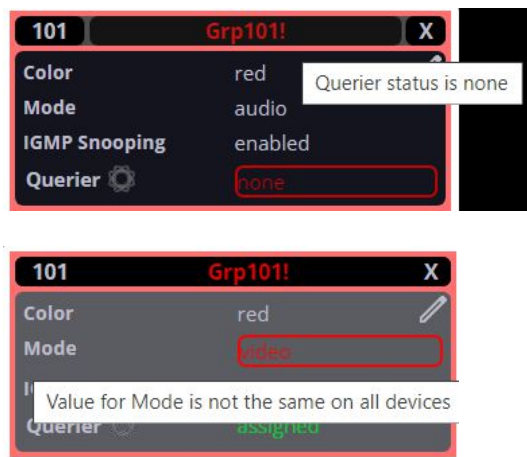
Group inconsistencies



Orange texts in a Group square means that some parameters (Group name or Color) have different states among the connected network. This happens when different configurations are merged into one.

Edit and confirm will force the Group parameter to be the same on all devices.

Group Mode or IGMP alert



Red alert in Group means that Mode or IGMP settings are not the same in all devices for this group, or No IGMP Querier is assigned. This will cause Multicast traffic interruption.



Orange alert on Querier status: waiting for initialization can occur on Ghost2, Pi, X and I-2930m devices.

This status can last several minutes and multicast traffic may not work during this initialization.



Always check that IGMP Querier is finally well assigned.

General IGMP alert



As IGMP snooping acts on multicast traffic, any action on a port **IGMP Mode** function or Group IGMP snooping enable/disable will activate the blinking IGMP alert in the Devices section.

When IGMP alert is confirmed by click, multicast protocols or flows will be interrupted and some devices may have to be rebooted before changes take effect

This alert means that last changes on IGMP will take effect only after Confirm.

NB: If you close the application during an IGMP alert, the IGMP configuration may have inconsistencies. In that case, you have to delete et recreate the Group.

Key points:

- Agora Controller sends orange alert for non-critical needed action
- Agora Controller sends red alerts for critical state or action needed to be confirmed.
- IGMP alert appears in red when IGMP Mode (Port) or IGMP enable/disable (Group) is being modified on some devices (Fast2 and H1)
- Only IGMP alert confirmation validates these IGMP changes

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