



**Barco ClickShare Button and App  
and MTR call state driven  
Taurus switcher  
for single and dual display setups**

**v 1.3.0**

**for LARA v1.2**

**Installation Manual**

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## 1. Solution overview

This solution provides automatic BYOD or content sharing switchover function for MTR conference rooms, and automatic BYOD switchover for conference rooms without MTR or conference PC, for single or dual display systems.

Generally, sources can be connected wirelessly with Barco ClickShare CX-30, CX-50 and CX-50 Gen 2 systems, or can be wired directly to the Lightware Taurus unit.

The dual display scenarios covered are the following:

- Dual display MTR with dual display Barco ClickShare CX-50 Gen 2
- Dual output MTR with single display Barco ClickShare CX and optional wired BYOD source
- Single output MTR with dual output Barco ClickShare CX-50 Gen 2 and optional wired BYOD source

The system diagrams for the single and dual display cases can be found in the Appendix.

For setups with dual display wireless connection the Barco ClickShare CX-50 Gen 2 can only be used since only this Barco ClickShare CX series model provides output for two displays. To fully utilize the capabilities of this dual display edition the Taurus UCX-4x3-HC-40 with 3 outputs needs to be used.

The wireless switchover is driven by the ClickShare button, the way of switching depends on the call status of the MTR conference system:

- When the MTR is out of call, the active source is automatically selected for BYOD type switching (video signal, USB room camera, microphone, speaker) by the LARA logic according to the parameter settings.
- When the MTR is in call, the video signal of the active source selected by the logic is switched to the Taurus output connected to the sharing input, the HDMI Ingest port of the MTR system.
- For conference rooms without MTR or without conference PC, the active source is automatically selected for BYOD type switching (video signal, USB room camera, microphone, speaker) by the LARA logic according to the parameter settings.

The solution can also be used without the MTR conference system, for ClickShare button driven wireless switchover according to the priorities set in the Wireless Presenter Switcher module instance for the Barco ClickShare CX Wireless Presenter unit and for the other BYOD sources configured.

## 2. Requirements of the solution

- A Lightware Taurus unit with firmware version 2.9.0 or higher
- A Barco ClickShare CX-30/CX-50/CX-50 Gen 2 unit, with firmware version v2.13 or higher  
**For a dual wireless presenter display setup the Barco ClickShare CX-50 Gen 2 can only be used**
- At least one display

Optional:

- An MTR Conference PC.  
**For a dual conference display solution an MTR Conference PC with at least 1 HDMI and 1 USB-C connection.**  
(MTR conference PCs with 2 HDMI outputs and without a DisplayPort alternate mode compatible USB-C connection can be used together with a HDMI/USB-C converter for the dual conference display setup.)
- BYOD / Laptop sources, up to 3 units according to the number of Taurus inputs available for connecting them in addition to those used by the Wireless Presenter (Barco ClickShare CX) and the Conference PC (MTR) connections.

## 3. Installation and configuration

### 3.1. Installation of the Lightware Companion app

The Lightware Companion app is an application running on the MTR system. It allows getting the MTR call status change in Taurus LARA with the help of a driver module instance.

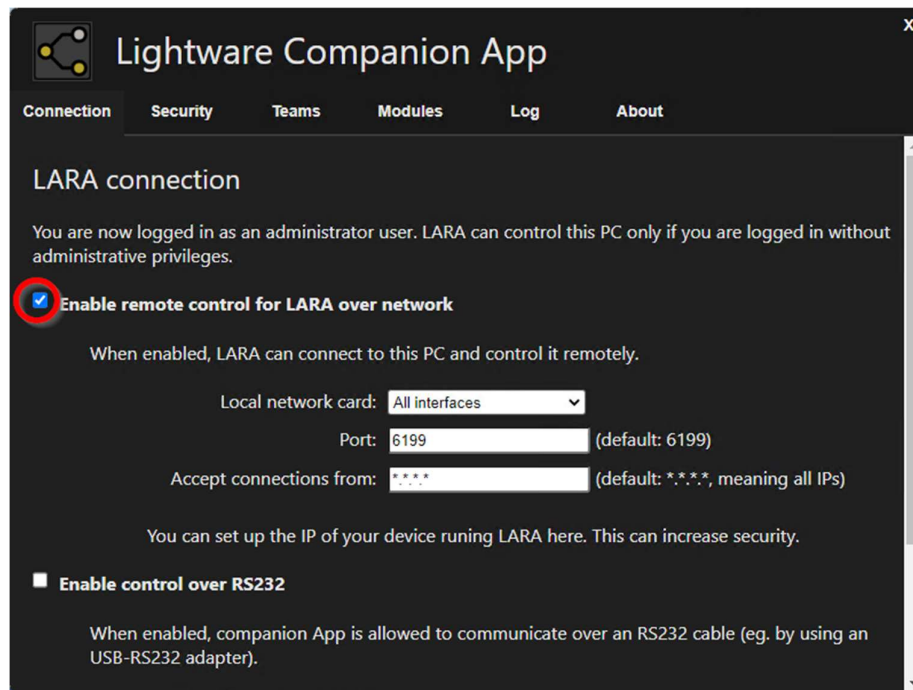
For MTR v4.19 and higher, use of Lightware Companion app version 1.2.0 or higher is necessary.

For the installation, log in as Administrator on the MTR system. All the other users should be logged off.

Run the installation file of the Lightware Companion app.

After the installation the following settings have to be done for the connection to use the Companion app:

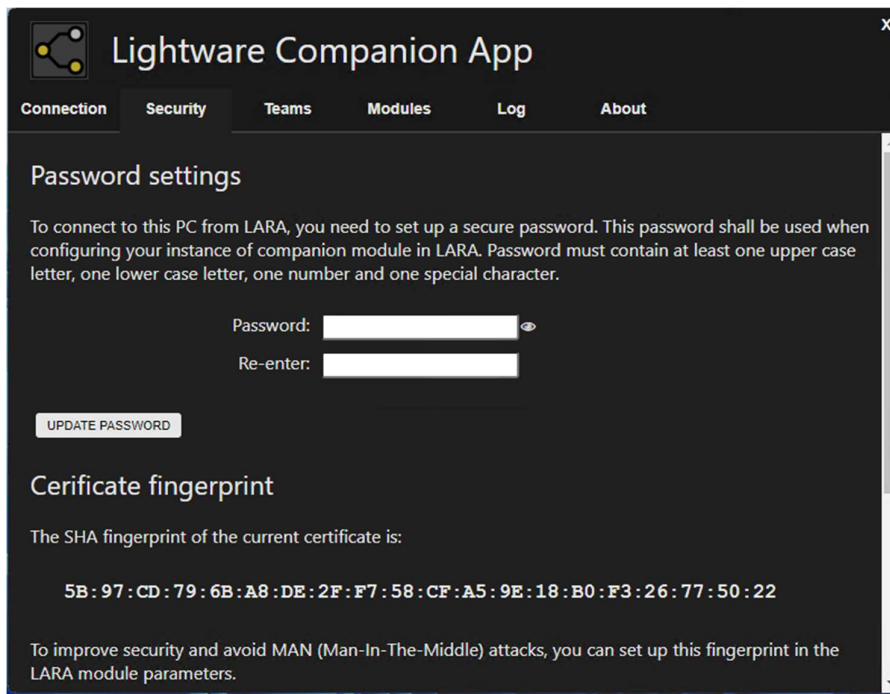
1. Connection:



Enable remote control for LARA over network has to be set.

Local network card can be selected, if necessary, otherwise use the default "All interfaces" setting.

2. Set password for LARA access by typing in the new password in both input boxes, and pressing the Update password button after that:



The screenshot shows the 'Lightware Companion App' interface with the 'Security' tab selected. The 'Password settings' section contains instructions on password requirements and input fields for 'Password' and 'Re-enter'. Below this is an 'UPDATE PASSWORD' button. The 'Certificate fingerprint' section displays the SHA fingerprint: 5B:97:CD:79:6B:A8:DE:2F:F7:58:CF:A5:9E:18:B0:F3:26:77:50:22, with a note about setting it in LARA module parameters.

**Lightware Companion App**

Connection Security Teams Modules Log About

### Password settings

To connect to this PC from LARA, you need to set up a secure password. This password shall be used when configuring your instance of companion module in LARA. Password must contain at least one upper case letter, one lower case letter, one number and one special character.

Password:

Re-enter:

UPDATE PASSWORD

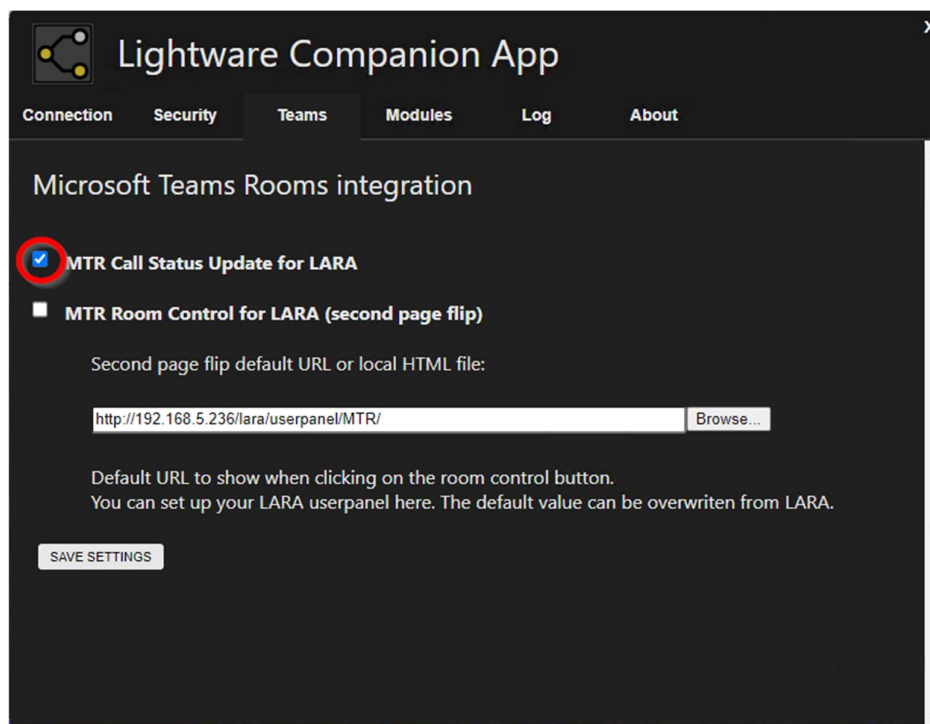
### Certificate fingerprint

The SHA fingerprint of the current certificate is:

5B:97:CD:79:6B:A8:DE:2F:F7:58:CF:A5:9E:18:B0:F3:26:77:50:22

To improve security and avoid MAN (Man-In-The-Middle) attacks, you can set up this fingerprint in the LARA module parameters.

3. Select Microsoft Teams Rooms integration:  
Enable MTR Call Status Update for LARA on this page.



The screenshot shows the 'Lightware Companion App' interface with the 'Teams' tab selected. The 'Microsoft Teams Rooms integration' section has two checkboxes: 'MTR Call Status Update for LARA' (checked) and 'MTR Room Control for LARA (second page flip)' (unchecked). Below the second checkbox is a text field for the 'Second page flip default URL or local HTML file:' containing 'http://192.168.5.236/lara/userpanel/MTR/' and a 'Browse...' button. A 'SAVE SETTINGS' button is at the bottom.

**Lightware Companion App**

Connection Security Teams Modules Log About

### Microsoft Teams Rooms integration

☒ MTR Call Status Update for LARA

☐ MTR Room Control for LARA (second page flip)

Second page flip default URL or local HTML file:

Browse...

Default URL to show when clicking on the room control button.  
You can set up your LARA userpanel here. The default value can be overwritten from LARA.

SAVE SETTINGS

Reboot the MTR system after the above settings have been done.

During the automatic startup the Companion app will start in the background, allowing the call state change detections in Taurus LARA.

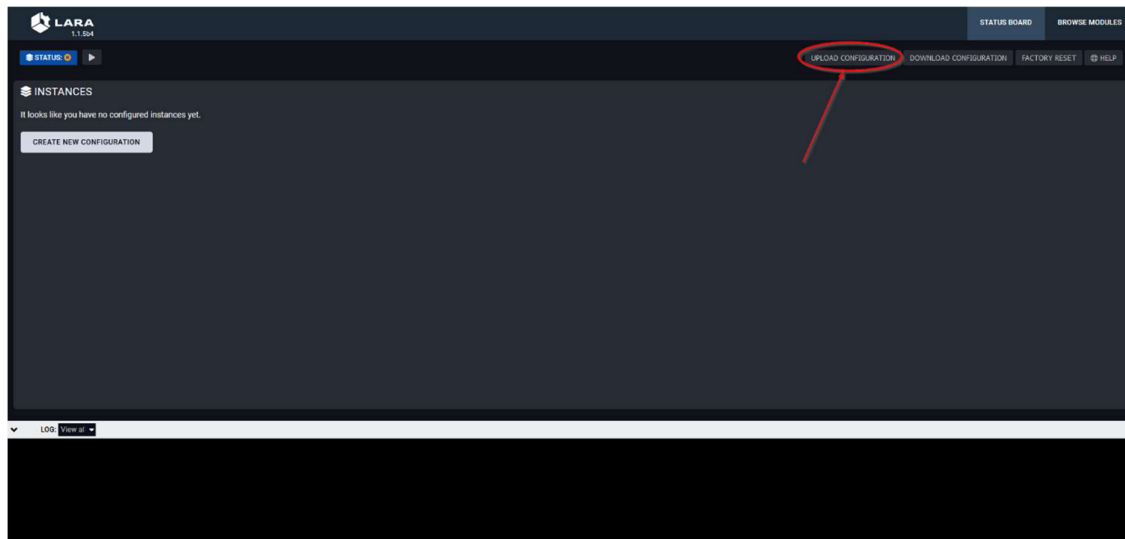
## 3.2. Installation of the LARA configuration file

Before uploading and configuring the LARA configuration file please download the latest firmware from <https://lightware.com/>, then upgrade your UCX Universal Matrix Switcher and activate LARA.

For further information please refer to the following links:

- [https://lightware.com/pub/media/lightware/filedownloader/file/User-Manual/Taurus\\_UCX\\_series\\_Users\\_Manual.pdf](https://lightware.com/pub/media/lightware/filedownloader/file/User-Manual/Taurus_UCX_series_Users_Manual.pdf)
- [https://lightware.com/pub/media/lightware/filedownloader/file/User-Manual/LARA\\_Users\\_Manual.pdf](https://lightware.com/pub/media/lightware/filedownloader/file/User-Manual/LARA_Users_Manual.pdf)
- <https://lightware.com/lara/>

Start LARA on the Taurus according to the Taurus User Manual and upload the configuration file using the menu item as shown in the picture below:

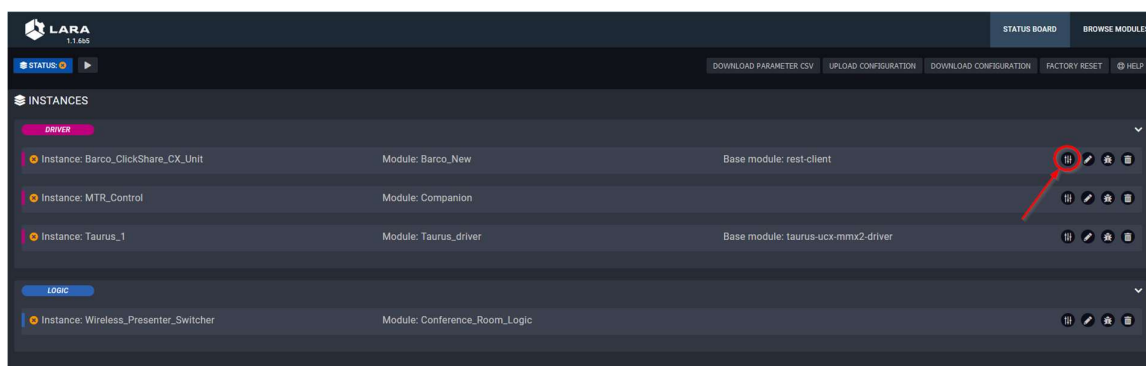


Next step is the setting of the module instance parameters.

## 3.3. Setting the instance parameters for the LARA configuration

### 3.3.1. Setting the parameters of the Barco\_ClickShare\_CX\_Unit instance

For setting the parameters of the Barco ClickShare CX series module instance named Barco\_ClickShare\_CX\_Unit, on the LARA Status Board click on the button shown in the picture below:



The window for setting the instance parameters:

#### Connection settings:

- IP address of the connected Barco ClickShare unit. - It is needed for the communication with the unit, for status polling, using REST API.
- Credentials for access for the polling:
  - Username
  - Password

#### Update options:

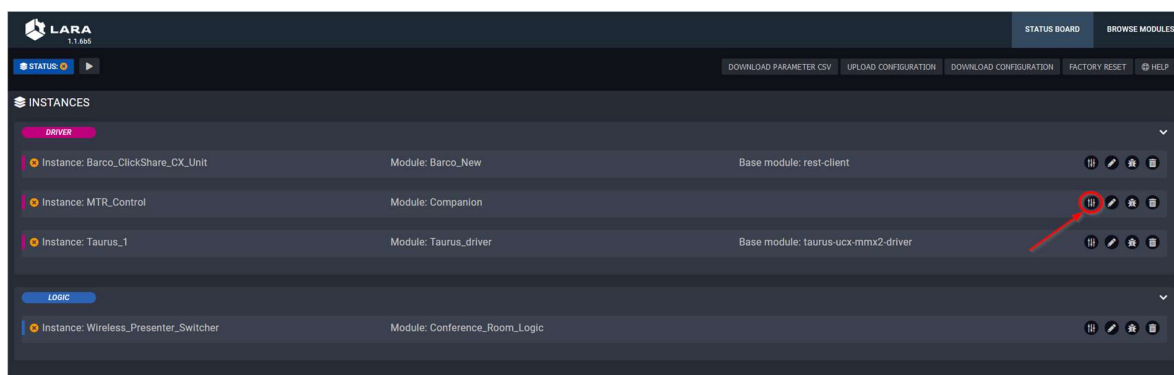
- Update period – Polling cycle time in msec, can be set between 2500 and 5000, the default and recommended value is 3000 (= 3 sec).

#### Status board options:

- Show error messages – Set to hide or show REST API polling error messages, default is show.

### 3.3.2. Setting the parameters of the MTR\_Control instance

For setting the parameters of the Companion module instance named MTR\_Control, on the LARA Status Board click on the button shown in the picture below:



The window for setting the instance parameters:

The screenshot shows the EDIT MTR\_CONTROL INSTANCE PARAMETERS window. The window has a title bar with a hamburger menu icon and the text EDIT MTR\_CONTROL INSTANCE PARAMETERS. The main content area is divided into sections. The first section is CONNECTION DETAILS. It contains a dropdown menu for Method of connection, currently set to Network. Below this is a text input field for IP address of the ROOM PC, with the value 192.168.5.75. Below that is a text input field for TCP/IP port, with the value 6199. Below that is a text input field for Password. Below that is a text input field for Mac address, with the value 38:F3:AB:1C:DF:F1. At the bottom of the window, there are three buttons: SAVE, UPLOAD PARAMETERS JSON, and DOWNLOAD PARAMETERS JSON.

#### Connection details

- Method of connection

Can be selected from a drop-down list, as Network, Serial port 1 or Serial port 2

Default setting is Network.

- IP address of the Room PC

The IP address of the MTR PC where the Companion app runs, for Network type connection.

- TCP/IP port

The TCP/IP port the Companion app uses for the Network type connection.

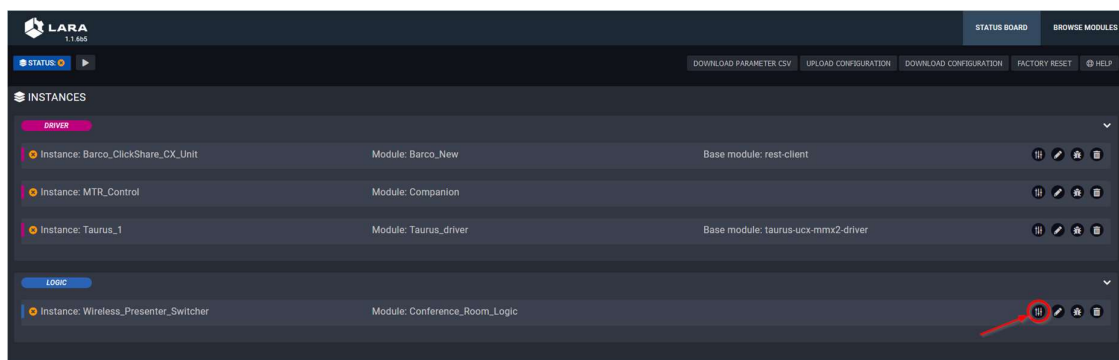
Default port is 6199

- Password

The password to connect to the Companion app that had been set according to section 2.1 has to be given here.

### 3.3.3. Setting the parameters of the Wireless\_Presenter\_Switcher instance

For setting the parameters of the Conference Room Logic module instance named Wireless\_Presenter\_Switcher, on the LARA Status Board click on the button shown in the picture below:



#### 3.3.3.1. Operation Mode, Taurus Input Configuration:

### EDIT WIRELESS\_PRESENTER\_SWITCHER INSTANCE PARAMETERS

Instance name

Wireless\_Presenter\_Switcher

#### OPERATION MODE CONFIGURATION

Operation Logic

Last detect

First detect or last detect (default) operation for sources with the same priority

Switch to MTR when getting In Call

true

True: Logic switches Displays and Usb peripherals to MTR right when it gets to In Call, False: Only after there is no more BYOD or WP in use

#### TAURUS INPUT CONFIGURATION

Input 1

BYOD Source / Laptop

Connected source to input 1 of Taurus

Input 1 Priority

1 - Highest

Input 1 priority default is 0 - High

SAVE

UPLOAD PARAMETERS JSON

DOWNLOAD PARAMETERS JSON

### Operation Mode Configuration

- Operation Logic

First detect or Last detect (default) mode can be selected for the operation logic. It defines the logic to be applied to sources having the same priority values set, as described below.

- Switch to MTR when getting to In Call state

true: when MTR gets to In Call state, the LARA logic switches the Display outputs and the USB room peripherals back to MTR (default setting)

false: when MTR gets to In Call state, the LARA logic switches the Display outputs and the usb room peripherals back to MTR only after there is no BYOD source or Wireless Presenter in In Use state

### Taurus Input Configuration:

For the operation the solution logic has to know to which ports of the Lightware Taurus the various sources are connected to. In addition, the priority parameters of the input ports that are used during the automatic selection can also be set here.

The priority of the inputs can be selected from a drop-down list as:

1 - Highest, 2 - High, 3 – Medium or 4 - Low.

When giving the same priority to multiple inputs, the logic selects the actual source at this priority level using the First detect or Last detect logic mode set as Operation Logic as shown above.

The input configured as Conference PC or Conference PC (2<sup>nd</sup> output) has a special priority assigned automatically, regardless of the priority set for this input as instance parameter.

- Input 1

Select the connected source from the dropdown list:

- Conference PC – The conference pc installed in the room
- Conference PC (2<sup>nd</sup> output)– The 2<sup>nd</sup> conference pc connection (for dual conference display setups)
- Wireless Presenter – The Barco ClickShare CX base unit (HDMI)
- Wireless Presenter (2<sup>nd</sup> output) - The 2<sup>nd</sup> Barco ClickShare CX-50 Gen 2 connection (USB-C, for dual wireless presenter display setups)
- BYOD Source / Laptop – as the name suggests
- Not used – as the name suggests

Default selection for Input 1 is BYOD Source / Laptop

- Input 1 Priority – it can be selected from a drop-down list with the following values:

- 1 – Highest
- 2 – High
- 3 – Medium
- 4 – Low

The default value for Input 1 is 2 - High.

- Input 2

Setting options are the same as for Input 1

Default selection for Input 2 is BYOD Source / Laptop

- **Input 2 Priority**  
Setting options are the same as for Input 1 Priority.  
The default value for Input 2 is 1 - Highest.
- **Input 3**  
Setting options are the same as for Input 1  
Default selection for Input 3 is Wireless Presenter
- **Input 3 Priority**  
Setting options are the same as for Input 1 Priority.  
The default value is for Input 3 is 1 - Highest.
- **Input 4**  
Setting options are the same as for Input 1  
Default selection for Input 4 is Conference PC
- **Input 4 Priority**  
Setting options are the same as for Input 1 Priority.  
The default value for Input 4 is 4 - Low.

The valid numbers of the connected sources by type are:

|                       |                                                                         |
|-----------------------|-------------------------------------------------------------------------|
| Conference PC:        | 0 or 1                                                                  |
| Conference PC 2:      | 0 or 1 (valid in case there is an input set as Conference PC too).      |
| Wireless Presenter:   | 0 or 1                                                                  |
| Wireless Presenter 2: | 0 or 1 (valid in case there is an input set as Wireless Presenter too). |
| BYOD/Laptop:          | 0, 1, 2 or 3                                                            |

The total number of the configured sources cannot be more than the number of inputs of the Taurus.

### 3.3.3.2. Taurus Output Configuration:

The screenshot shows a configuration window titled "EDIT WIRELESS\_PRESENTER\_SWITCHER INSTANCE PARAMETERS". Inside, there is a section "TAURUS OUTPUT CONFIGURATION" with three output settings:

- Output 1:** Set to "Display". Below it is a label "Taurus output 1 connection".
- Output 2:** Set to "MTR HDMI ingest port (Content Sharing)". Below it is a label "Taurus output 2 connection".
- Output 3:** Set to "Not used". Below it is a label "Taurus output 3 connection (if exists)".

#### Taurus Output Configuration

- **Output 1**  
Select from dropdown list:

- Display - This output is used for this switcher solution as room display
- 2<sup>nd</sup> Display - This output is used for this switcher solution as 2<sup>nd</sup> room display
- MTR HDMI ingest port (Content Sharing) – This output is used to connect to the HDMI ingest port of the MTR PC that is used as the input for content sharing,
- Barco CX HDMI ingest port (Content Sharing) – This output is connected to the HDMI input port of the Barco ClickShare CX-50 Gen 2 room dock port provided by a Barco dongle.

The system drawing for the use case using this type of output can be found in the Appendix, in section 5.1.5.

- Not used - This output is not used for this switcher solution, or does not exist on this Taurus

Default selection for Output 1 is Display

#### ▪ Output 2

Setting options are the same as for Output 1

Default selection for Output 2 is MTR HDMI ingest port (Content Sharing)

#### ▪ Output 3

Setting options are the same as for Output 1

Default selection for Output 3 is Not used

Set this Output 3 to other than 'Not used' only in case it exists on the Taurus unit used.

### Limitations for the output settings:

- Only the outputs that exist on the Taurus model used are allowed to be set to values other than Not used.
- In case the content sharing function is needed, one of the existing output ports has to be set as MTR HDMI ingest port.
- In case the dual display function is needed, one of the existing output ports has to be set as Display and another existing output has to be set as 2<sup>nd</sup> Display.

**EDIT WIRELESS\_PRESENTER\_SWITCHER INSTANCE PARAMETERS**

**CONSOLE LOGGING OPTIONS**

Enable verbose console logging  
true

**LOGIC CONNECTIVITY SETTINGS**

Name of Taurus instance  
Taurus\_1  
The name of the Taurus Instance

Name of ClickShare instance  
Barco\_ClickShare\_CX\_Unit  
The name of the Barco ClickShare Instance

Name of the Conference instance  
MTR\_Control  
The name of the Conference Instance

### Console Logging Options

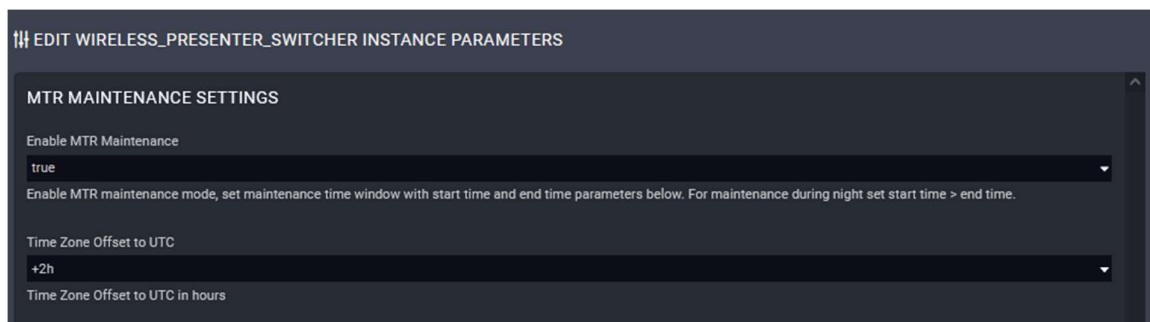
- Enable verbose console logging  
Enable detailed console logging during operation, used mainly for issue tracking during installation  
Default value is not enabled (false).

### Logic Connectivity Settings

The Logic module has to know the name of the driver module instances for operation:

- Name of the Taurus driver instance  
Default name is Taurus\_1
- Name of the Barco ClickShare driver instance  
Default name is Barco\_ClickShare\_CX\_Unit
- Name of the MTR driver instance  
Default name is MTR\_Control.

### 3.3.3.3. MTR Maintenance Settings:



The screenshot shows a configuration window titled "EDIT WIRELESS\_PRESENTOR\_SWITCHER INSTANCE PARAMETERS". Inside, there is a section for "MTR MAINTENANCE SETTINGS". It includes a toggle for "Enable MTR Maintenance" set to "true", a descriptive text line about setting maintenance time windows, and a "Time Zone Offset to UTC" dropdown menu set to "+2h".

### MTR Maintenance Settings

When the MTR Maintenance mode is enabled, and time is within the maintenance time period, the logic switches the video outputs and USB room peripherals from any active BYOD devices back to the MTR conference PC, and it does not allow for any BYOD devices to take the room resources from the MTR conference PC. This feature is meant to support the MTR system updates.

- Enable MTR Maintenance  
True: MTR Maintenance mode is enabled  
False: MTR Maintenance mode is disabled
- Time Zone Offset to UTC

The local Time Zone offset to UTC has to be set here in order to set the local time values for the maintenance time period

EDIT WIRELESS\_PRESENTER\_SWITCHER INSTANCE PARAMETERS

MTR Maintenance start date

MTR maintenance window start date. Format: dd.mm.yyyy, leave empty for today

MTR Maintenance start time

21:47

MTR maintenance window start time. Format: hour:min

MTR Maintenance end time

10:52

MTR maintenance window end time. Format: hour:min

MTR Maint duration minutes

5

Maintenance duration minutes

MTR Maint duration hours

0

Maintenance duration hours

MTR Maint duration days

0

Maintenance duration days

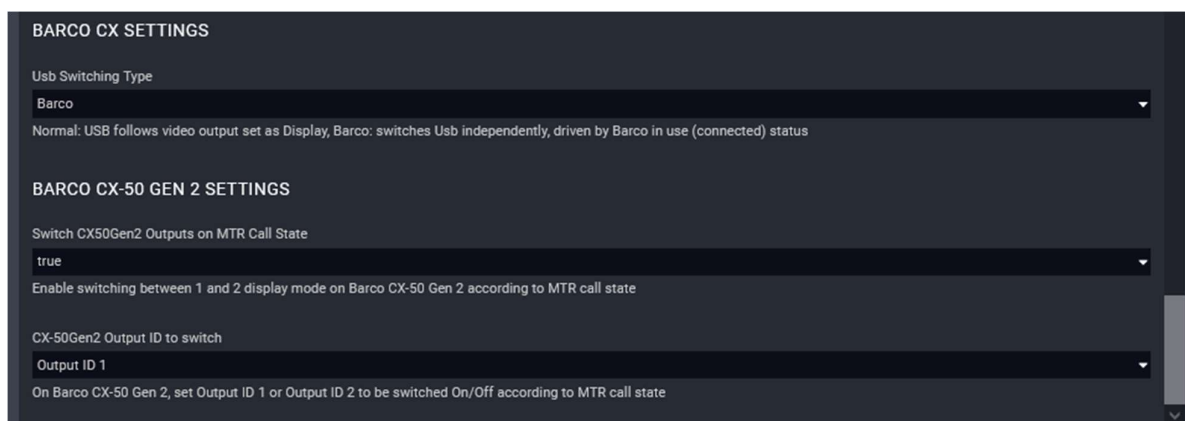
### Maintenance Time Period Settings

The maintenance time period can be set in two ways, either by start and stop time, or start time and duration.

- MTR Maintenance start date  
Format: dd.mm.yyyy, leave blank to set it to today
- MTR Maintenance start time  
MTR maintenance period start time: hour:min
- MTR Maintenance end time  
MTR maintenance period end time: hour:min,  
For overnight maintenance set it to a time value lower than the start time.  
Not used if any of the duration parameters listed below is set to a value greater than 0.
- MTR Maintenance duration minutes  
MTR maintenance period duration minutes
- MTR Maintenance duration hours  
MTR maintenance period duration hours
- MTR Maintenance duration days  
MTR maintenance period duration days

If all the duration parameters are 0, the MTR Maintenance period is defined by its start and stop time.

### 3.3.3.4. Barco CX settings:



#### Barco CX Settings

The maintenance time period can be set in two ways, either by start and stop time, or start time and duration.

- USB Switching Mode

Normal (this is default mode): USB follows video output set as Display,

Barco: Logic switches the USB layer independently from the video layer, the USB switching is driven by the in use (connected) status of the Barco CX unit.

The Active USB selection can be seen on the status bar of the logic module in this mode:



For example, the USB layer is switched when a ClickShare Button that is paired with the CX Unit is connected to a laptop, and showing a full white ring. Video switching happens when the Button is pressed, showing a full red ring afterwards, and the CX Unit goes into sharing state (provided MTR is not In Call, if present).

#### Barco CX-50 Gen 2 Settings

The Barco CX-50 Gen 2 has the following two additional settings.

- Switch CX-50 Gen 2 Outputs on MTR Call State

Enable switching between 1 and 2 display mode on Barco CX-50 Gen 2 according to MTR call state by switching one of its output (defined in the next parameter) to On when the MTR is in Out Of Call, and to Off when the MTR is in In Call state.

- CX-50 Gen 2 Output ID to switch

Defines by the Output ID, which Barco CX-50 Gen 2 output has to be switched On/Off according to MTR call state as described in the previous parameter. Output ID 1 (default) is the USB-C output, Output ID 2 is the HDMI output.

### 3.3.4. Handling configuration issues

For the proper operation, the instance parameters have to be set in accordance with the number of input and output ports of the Taurus, and with the required functionality.

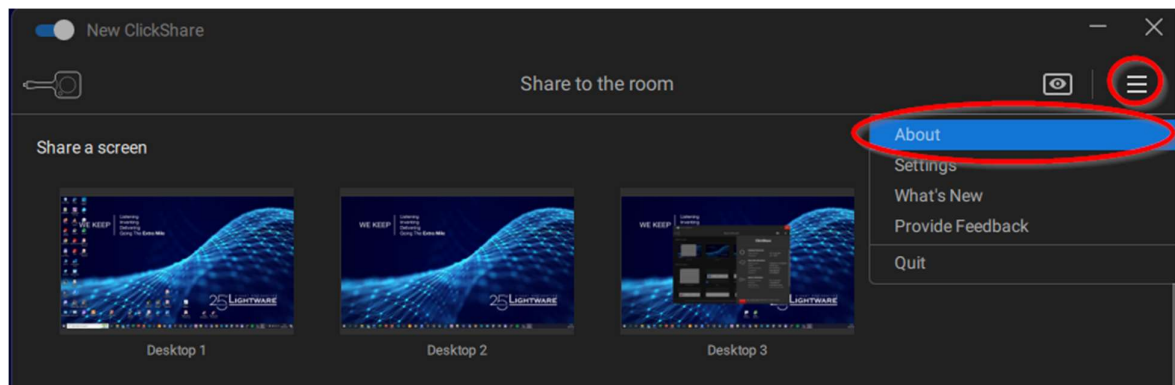
In case there is an error found during the checking of the parameter settings when starting the LARA configuration, it is shown on the status bar of the logic module, with a short description of the error. In this case the solution does not start operation. Please modify the settings and run the LARA configuration again.

If there is no error found, the Configuration field shows OK, and the solution starts the operation.

## 3.4. Barco ClickShare CX unit settings

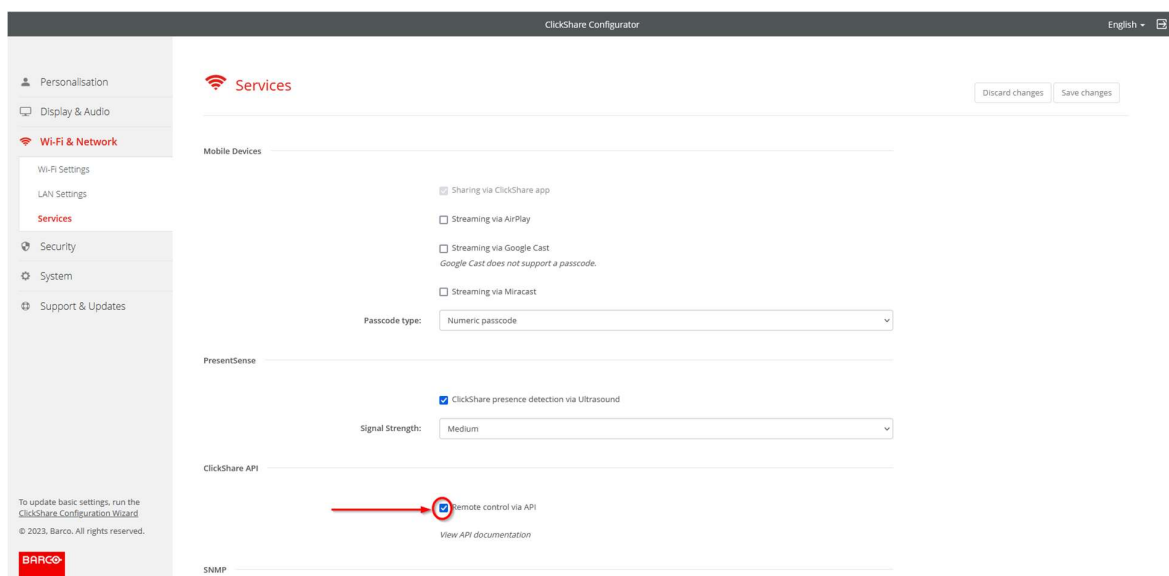
The IP address of the Barco ClickShare CX unit can be set according to the user manual of the unit.

If it is already set, the IP address can be obtained using the ClickShare app on a PC, under the About menu item:

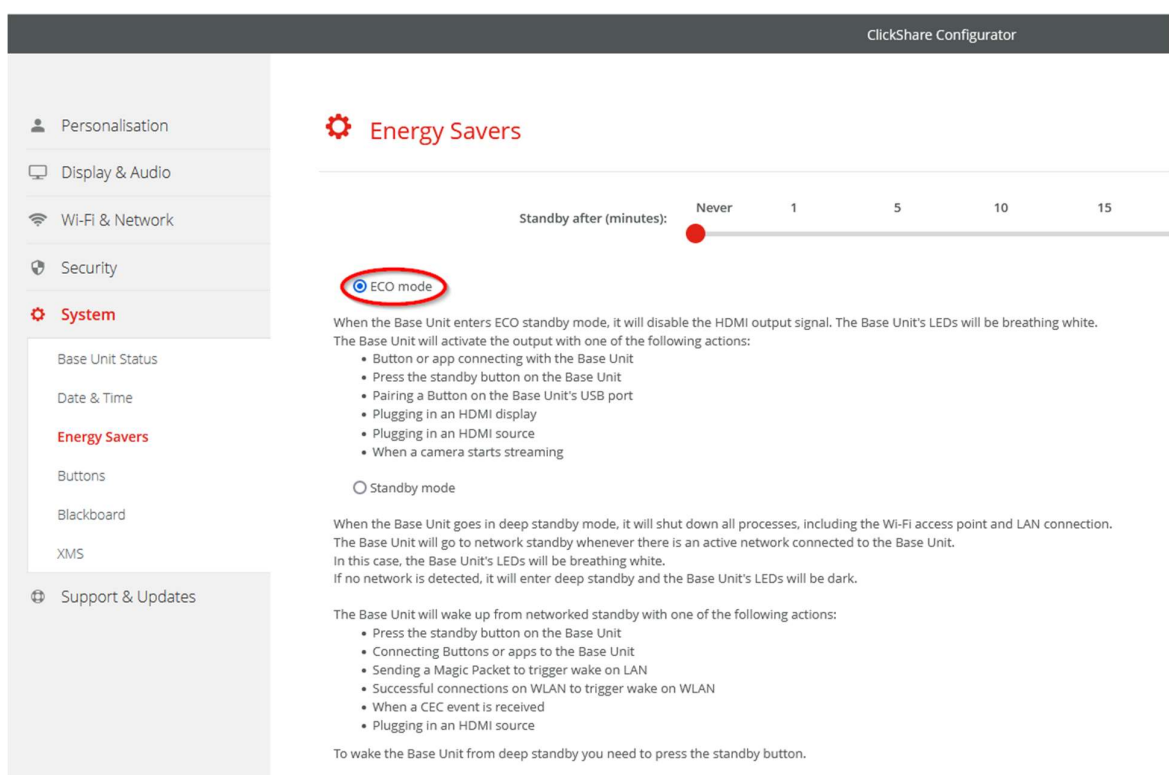


In the ClickShare Configurator that is accessible using a web browser and typing the IP address of the unit, after login please check the following settings:

In the Wifi & Network, Services section, make shure that the 'Remote control via API' option is set at the ClickShare API subsection:



In System / Energy Savers section, select the ECO mode in case you want the unit to wake up from standby when using the ClickShare Button or the ClickShare app:



In Standby mode the unit can go to deep standby mode, and it can be waken up only by pressing the standby button on the CX unit.

When the MTR system is not in a call, and the dual display Barco ClickShare is selected as BYOD source, the source connected to the screen position 1 of Barco ClickShare CX-50Gen2 gets the room USB peripherals. You can set the screen positions for the Barco outputs in the Display & Audio, Outputs section.

ClickShare Configurator

Personalisation

Display & Audio

Outputs

Inputs

Peripherals

Wi-Fi & Network

Security

System

Support & Updates

To update basic settings, run the [ClickShare Configuration Wizard](#)  
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BARCO

## Outputs

DisplayPort

Model & Vendor: Conference, LWR

☒ Enable

Resolution: Auto

ClickShare Position: 2

HDMI

Model & Vendor: Conference, LWR

☒ Enable

Resolution: Auto

ClickShare Position: 1

Display mode: Extended

☐ Enable CEC

The current connection (DisplayPort) does not support CEC

Please make shure the 'Enable CEC' option is disabled as shown above.

### 3.5. Initial automatic Taurus settings

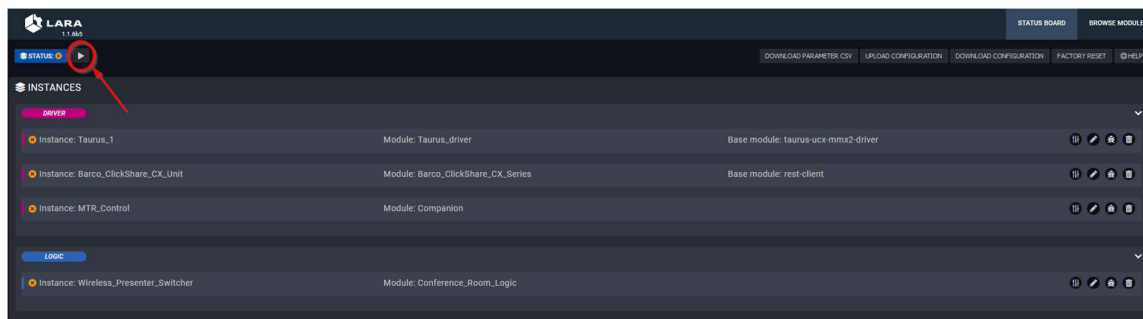
During the LARA configuration startup, after connecting to the Taurus unit the following initial settings are done:

- For all the outputs that are configured as either Display or MTR HDMI ingest port (Content Sharing):
  - Autoselect Policy to Off
  - Video Mute to false
- A custom EDID profile called Conference is downloaded to U1 slot in the Taurus User EDID table, and it is set for all the existing Taurus input ports.
- The names of the Taurus input ports are set according to the connected sources set in the Wireless\_Presenter\_Switcher instance parameters

## 4. Operation

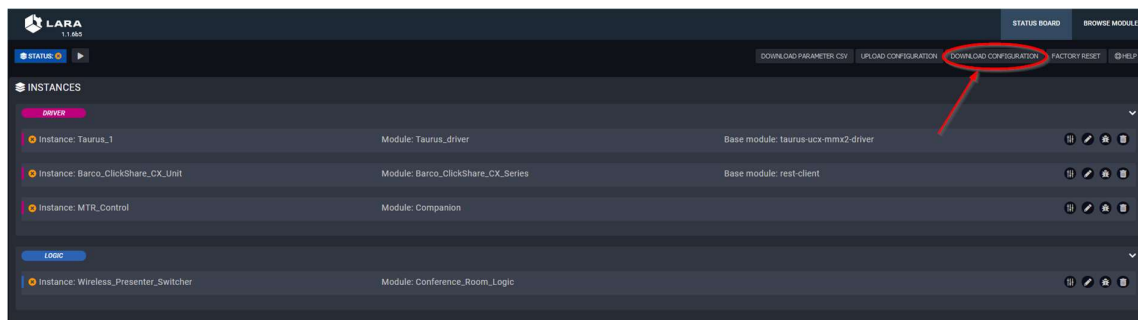
### 4.1. Starting LARA

After setting the parameters detailed in the previous chapter, the LARA configuration is ready to be run. Start the LARA service as shown in the picture below:



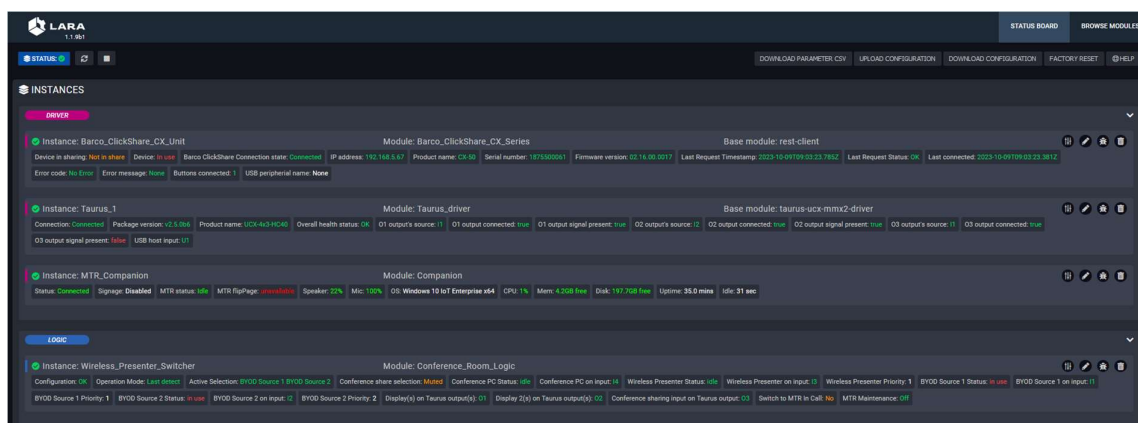
### 4.2. Downloading the LARA configuration

To save the settings you made use the download configuration function as shown in the picture below:



### 4.3. Details of the status bars

After the successful starting of LARA, the status of the instances and the connected devices can be checked on the Status Board:



### 4.3.1. Wireless\_Presenter\_Switcher instance

The status bar of the Wireless\_Presenter\_Switcher instance shows the following details:

- Configuration – Ok, if there is no error found during the initial configuration check at starting up the LARA configuration. Description of the configuration error found otherwise.
- Operation Mode – as configured when setting the instance parameters, either First detect or Last detect.
- Active Selection – The name of the source connected to the Lightware Taurus, that is switched to the Display(s) and to the USB hub for room peripherals (in case the USB switching mode is set to 'Normal' that is the default setting).  
The 2<sup>nd</sup> name that appears in case there is a Display 2 configured on any of the outputs shows the active selection for the 2<sup>nd</sup> display.
- Conference share selection - The name of the source connected to the Taurus that is switched to the output configured as MTR PC HDMI ingest - this selection appears only in this case – that is connected to the MTR PC sharing input
- Conference PC Status – in use, idle or inactive. In use, when the MTR system is in call. Idle, when the MTR is out of call. Inactive when is not connected to the Taurus
- Conference PC on input - the Lightware Taurus input port the Conference PC is connected to, according to the configured input parameters
- Conference PC 2<sup>nd</sup> Output Status – in use, idle or inactive. In use, when the MTR system is in call. Idle, when out of call. Inactive when is not connected to the Taurus. Appears only if configured.
- Conference PC 2<sup>nd</sup> Output on input - the Lightware Taurus input port the Conference PC 2 is connected to, according to the configured input parameters. Appears only if configured.
- Wireless Presenter Status – in use, idle or inactive. Appears only if configured.
- Wireless Presenter on input – the Lightware Taurus input port the Wireless Presenter is connected to, according to the configured input parameters. Appears only if Wireless Presenter is configured.
- Wireless Presenter Priority – 1, 2, 3 or 4, as set in the corresponding input parameter. Appears only if Wireless Presenter is configured.
- Wireless Presenter 2<sup>nd</sup> output Status – the status of the 2<sup>nd</sup> Wireless Presenter link: in use, idle or inactive
- Wireless Presenter 2<sup>nd</sup> output on input – the Lightware Taurus input port the 2<sup>nd</sup> link of the Wireless Presenter 2<sup>nd</sup> output is connected to, according to the configured input parameters
- Wireless Presenter 2<sup>nd</sup> output Priority – 1, 2, 3 or 4, as set in the corresponding input parameter. Appears only if Wireless Presenter 2<sup>nd</sup> output is configured.
- BYOD Source “n” Status - in use, idle or inactive. “n” is according to the configured BYOD sources
- BYOD Source “n” on input - the Lightware Taurus input port the n<sup>th</sup> BYOD Source is connected to, according to the configured input parameters
- BYOD Source “n” Priority – 1, 2, 3 or 4, as set in the corresponding input parameter. Appears only if BYOD Source “n” is configured.
- Display(s) on Taurus output(s) – shows the Lightware Taurus outputs that are configured as Display to be used by this solution.
- Display 2(s) on Taurus output(s) – shows the Lightware Taurus outputs that are configured as Display 2 to be used by this solution.
- Conference sharing input on Taurus output - shows the Lightware Taurus output that is configured as output connected to the HDMI ingest port of the MTR PC.

- Switch to MTR In Call – Shows the operation setting for the case when the MTR gets into In Call state.  
Yes: Logic switches Displays and USB peripherals back to MTR immediately when it gets to In Call state.  
No: Switching back to MTR only happens after there is no more BYOD or WP in use.
- MTR Maintenance – Shows the status of the MTR maintenance in accordance with the MTR Maintenance settings:  
On: MTR Maintenance is on, that means MTR Maintenance is enabled and we are in the maintenance time period. BYOD switching is not allowed for BYOD sources and for Wireless Presenter.  
Off: MTR Maintenance is off.

#### 4.3.2. Barco\_ClickShare\_CX\_Unit instance

The Barco Clickshare driver module instance has the following details on its status bar:

- Device in sharing – shows whether the connected Barco ClickShare CX base unit is in sharing mode.
- Barco ClickShare Connection state – shows whether the Barco ClickShare CX base unit with the configured parameters is connected to the driver instance
- IP address – IP address of the Barco ClickShare CX base unit
- Product type – shows the type of the connected Barco ClickShare CX base unit
- Serial number – shows the serial number of the Barco ClickShare CX base unit
- Firmware version - shows the current firmware version of the Barco ClickShare CX base unit
- USB peripheral name – The name(s) of the USB peripherals that are in connection with the Barco ClickShare CX base unit
- Buttons connected – Shows the number of the active buttons connected to the Barco ClickShare CX base unit

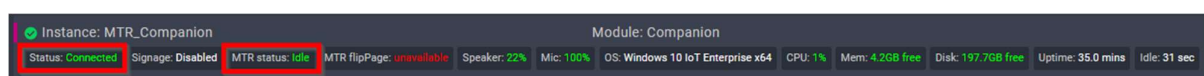
The following statuses are related to the REST API connection actions to the Barco ClickShare CX base unit:

- Last connected – Timestamp of the last successful REST API request sent to the Barco ClickShare CX base unit
- Error code - shows whether there was an error with the last REST API request sent to the Barco ClickShare CX base unit
- Error message - the error message received for the last REST API request sent to the Barco ClickShare CX base unit

#### 4.3.3. MTR\_Control instance

The MTR Control driver module instance has the following details relevant to this solution on its status bar:

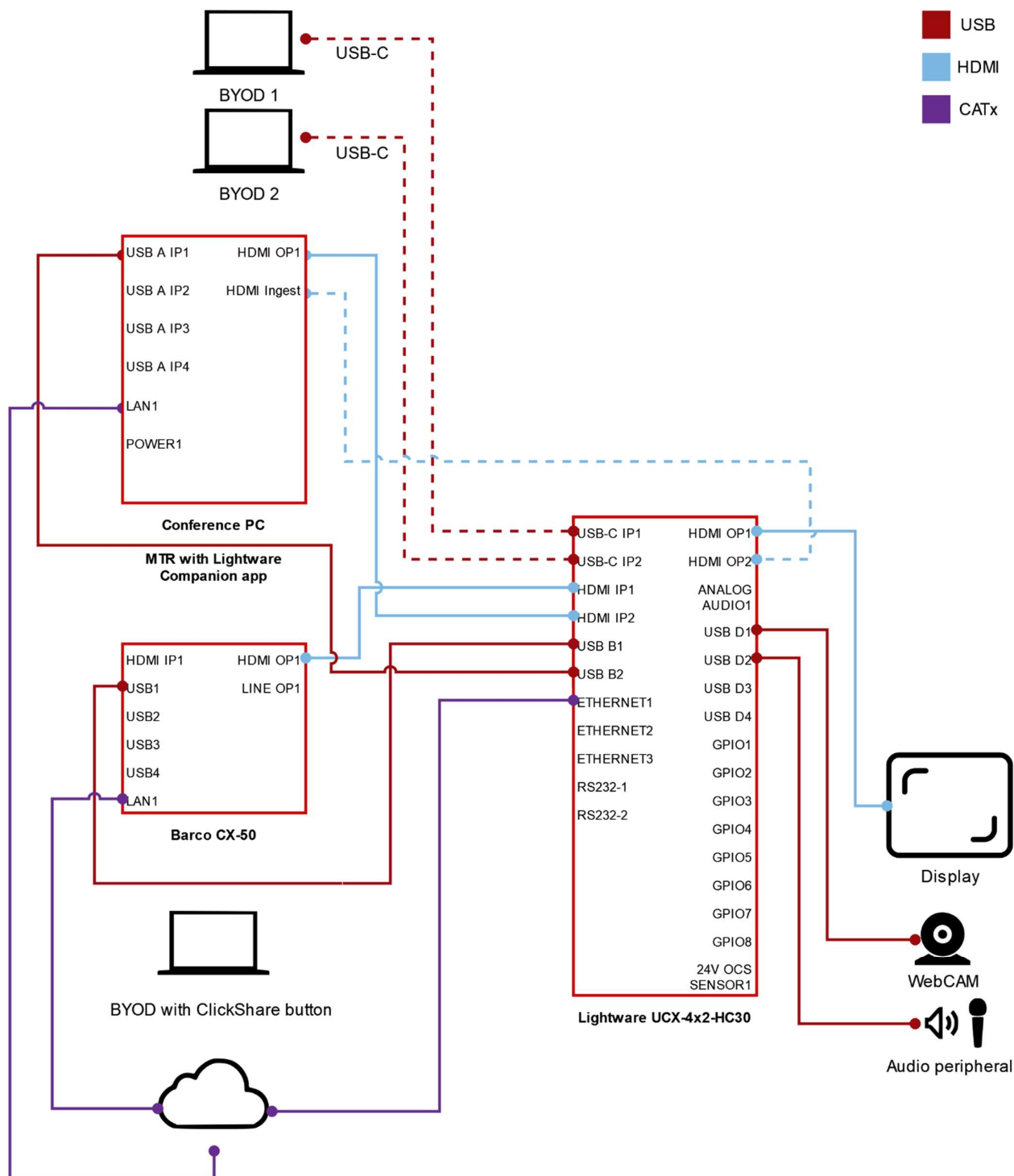
- Status – Shows the status of the connection of the LARA configuration and the Lightware Companion app running on the MTR PC
- MTR status - Shows the MTR Status



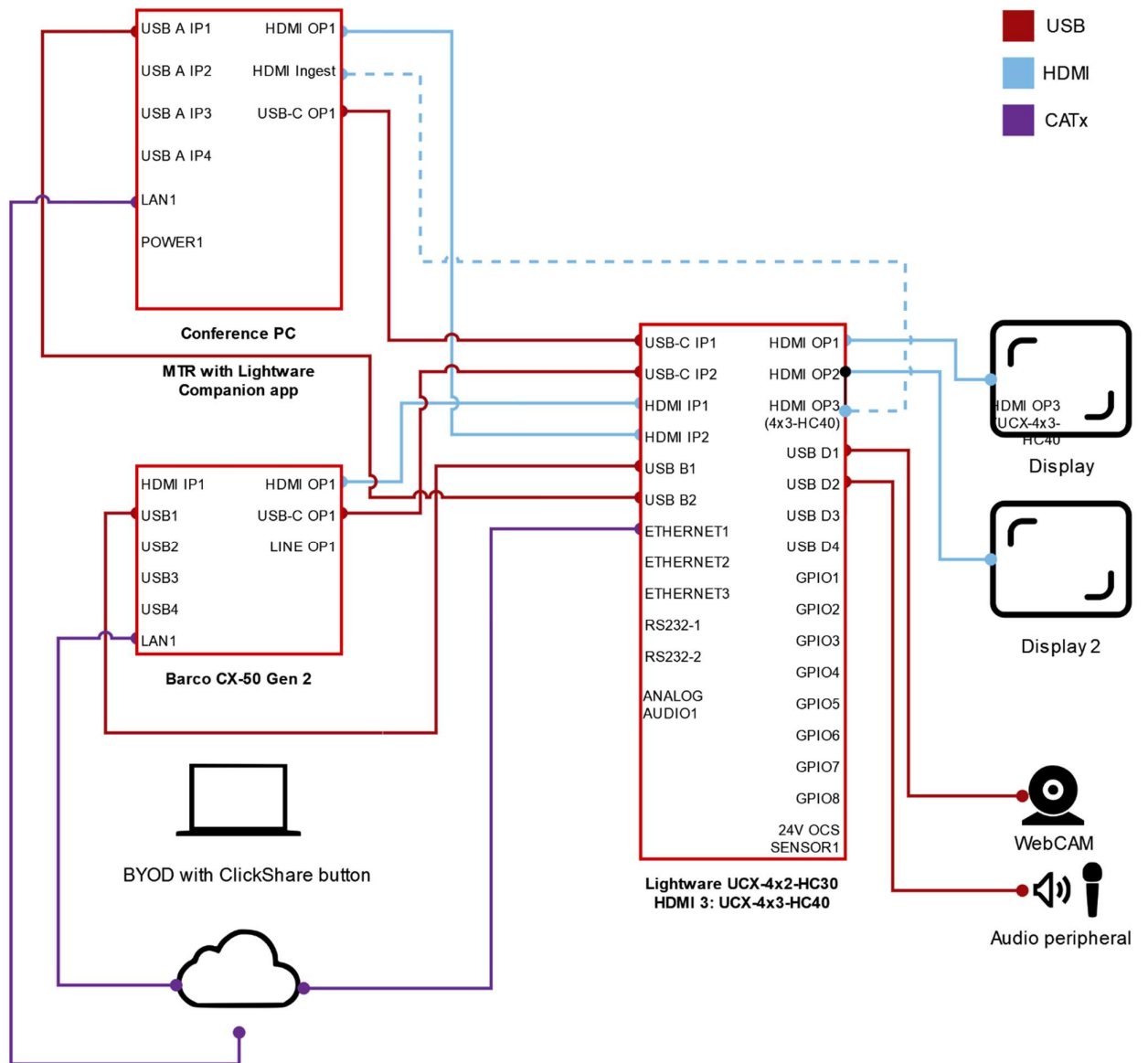
## 5. Appendix

### 5.1. System diagrams

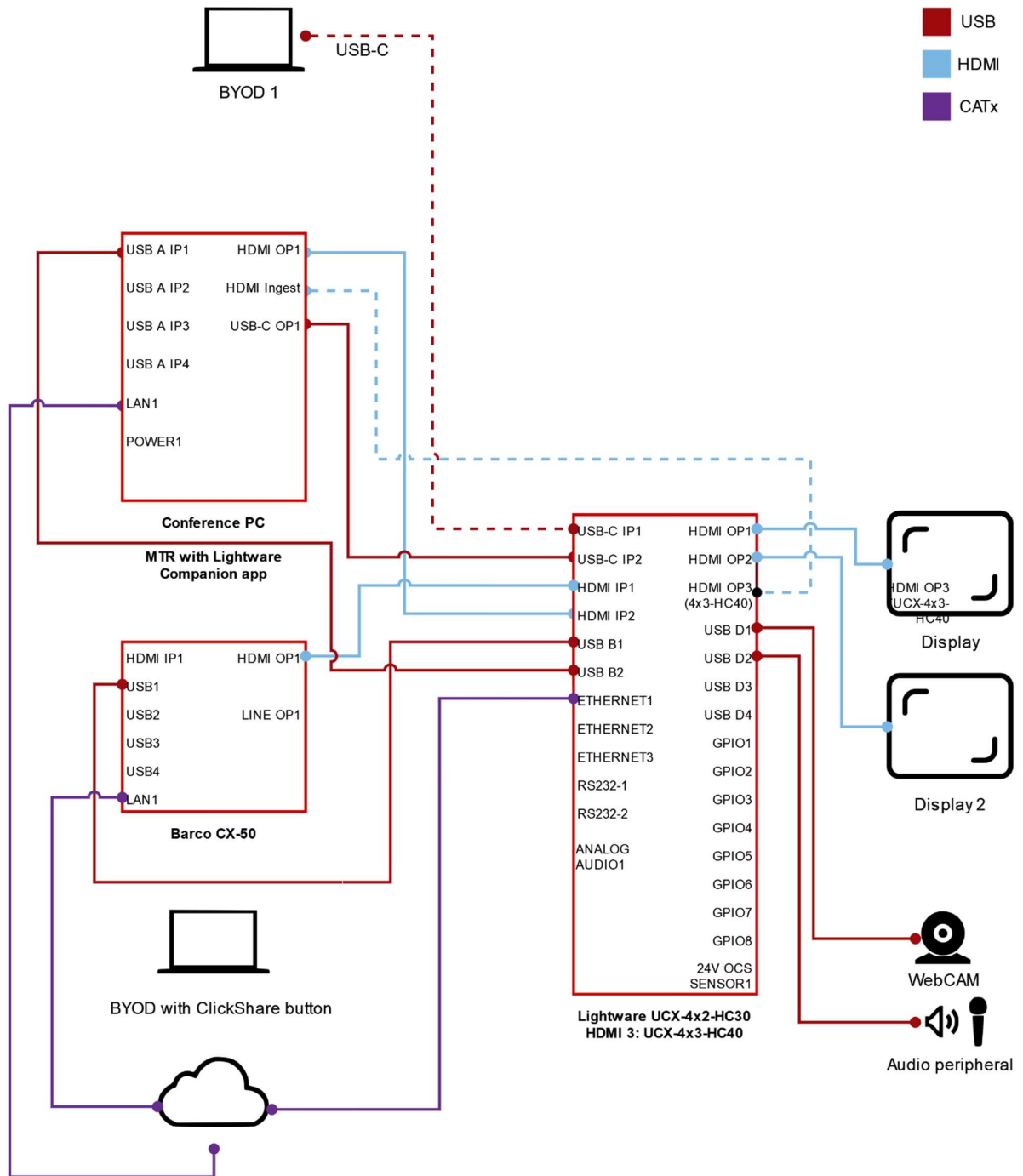
#### 5.1.1. Single display system with optional MTR PC HDMI ingest port connection



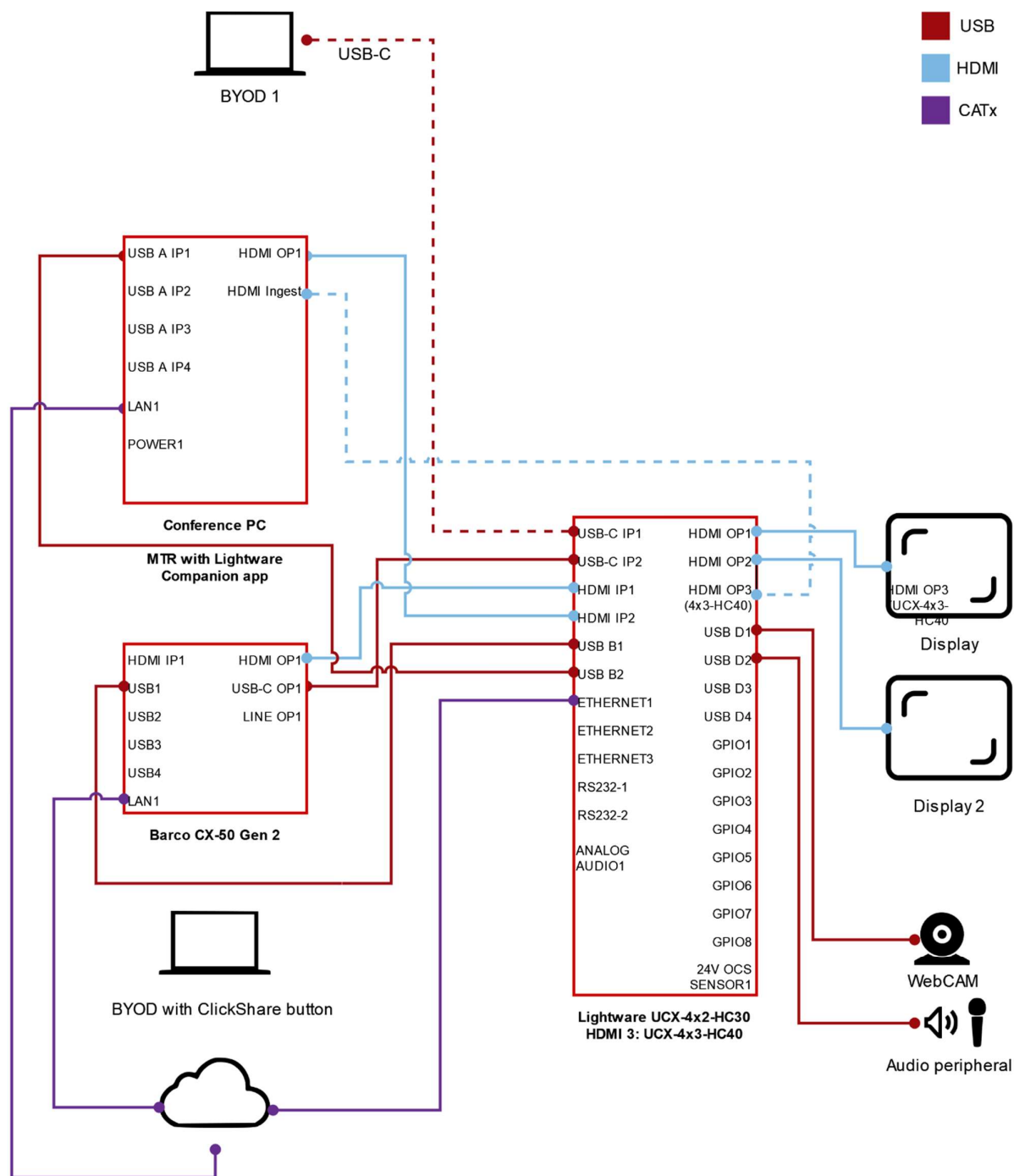
### 5.1.2. MTR and Barco ClickShare CX-50 Gen 2 dual display system with optional MTR PC HDMI ingest port connection (Taurus UCX 4x3-HC40)



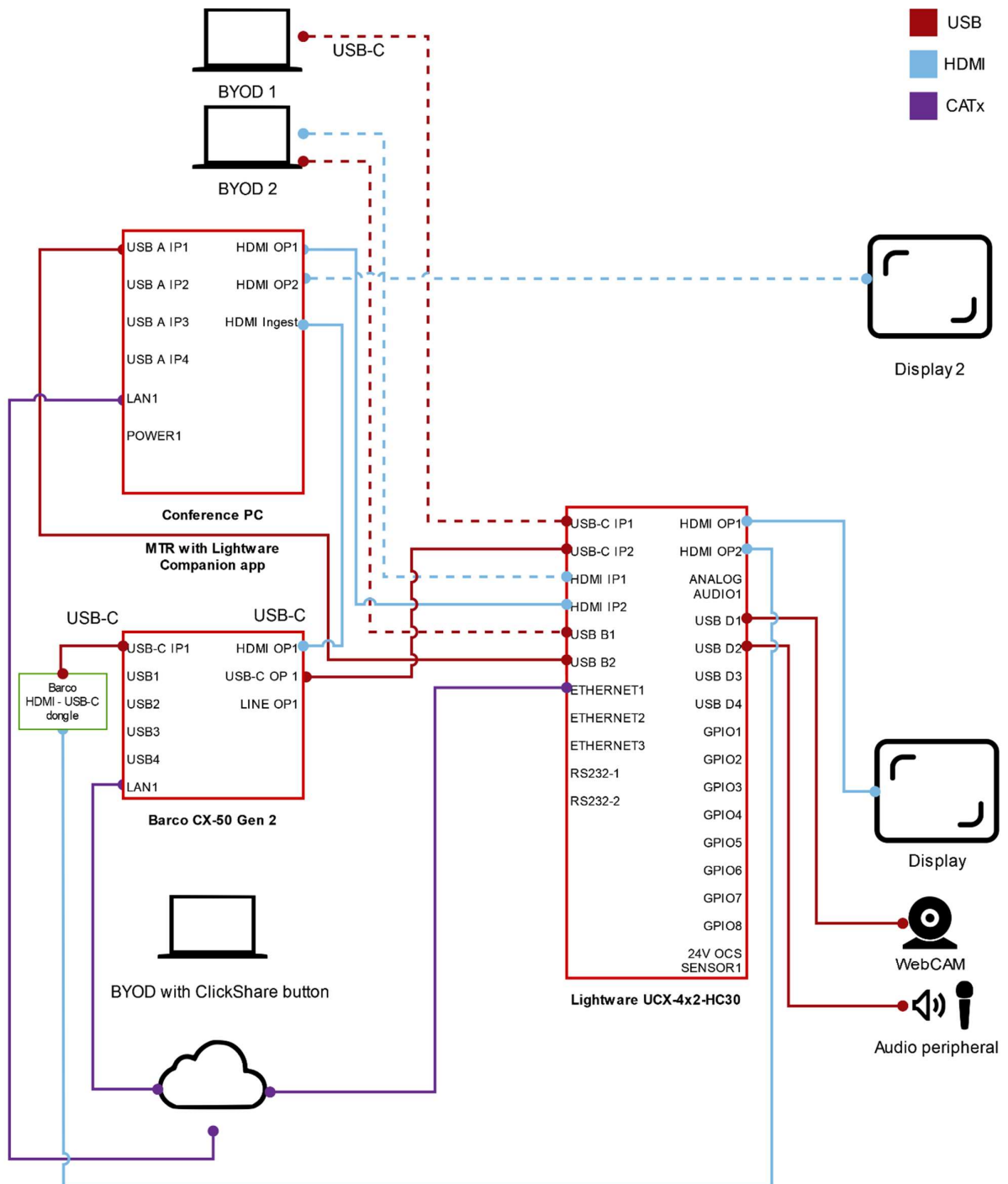
### 5.1.3. MTR dual display system with Barco ClickShare CX series unit with optional MTR PC HDMI ingest port connection (with Taurus UCX 4x3-HC40)



#### 5.1.4. Barco ClickShare CX-50 Gen 2 dual display system with single display MTR with optional MTR PC HDMI ingest port connection (with Taurus UCX 4x3-HC40)



5.1.5. **Barco ClickShare CX-50 Gen 2 dual display system with single display MTR**  
and with Barco CX-50 Gen 2 HDMI ingest port connection using Barco HDMI to USB-C converter dongle, and optional 2<sup>nd</sup> display for dual display MTR



## 5.2. Document Revision History

| Rev.  | Release date | Changes                    | Editor         |
|-------|--------------|----------------------------|----------------|
| 1.1.0 | 28.07.2023   | Initial version            | Miklós Lengyel |
| 1.2.0 | 10.10.2023   | Updated with new functions | Miklós Lengyel |
|       |              |                            |                |