

# Auro 11.1 update for ICMP



Installation manual

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# 1. AURO UPDATE FOR ICMP

## Overview

- Steps from A-Z
- License settings, add license
- Import of the ICMP settings
- Player Audio channel, edit
- Perform a channel test

## 1.1 Steps from A-Z



An email with the following content is sent to the Barco customer:

- Auro License for ICMP
  - An XML file containing the ICMP's settings needed to have a correct audio mapping with the Auro system
- The customer is responsible for delivering all content to the installer.



License installation and configuration of the ICMP must be fully realized through Communicator, the Barco configuration software. Add License and Import of the ICMP settings sections are extracted from the communicator user guide. Do not hesitate to refer directly to this guide for more explanations on these topics.

### Steps from A-Z

1. Prior to start the installation, the following content should be available:
  - Auro License for ICMP.
  - The XML file containing the ICMP's settings needed to have a correct audio mapping with the Auro system.
2. Transfer the content on the PC where **Communicator**, the Barco configuration software, is installed (via USB drive or network).
3. Check the **ICMP software** version and the Barco **Communicator** software version.
  - **ICMP software** version should be **1.1.5.x** or higher.
  - Barco **Communicator** software version should be **4.8.4.12** or higher.

To display the current versions of these software please use Barco **Communicator** :

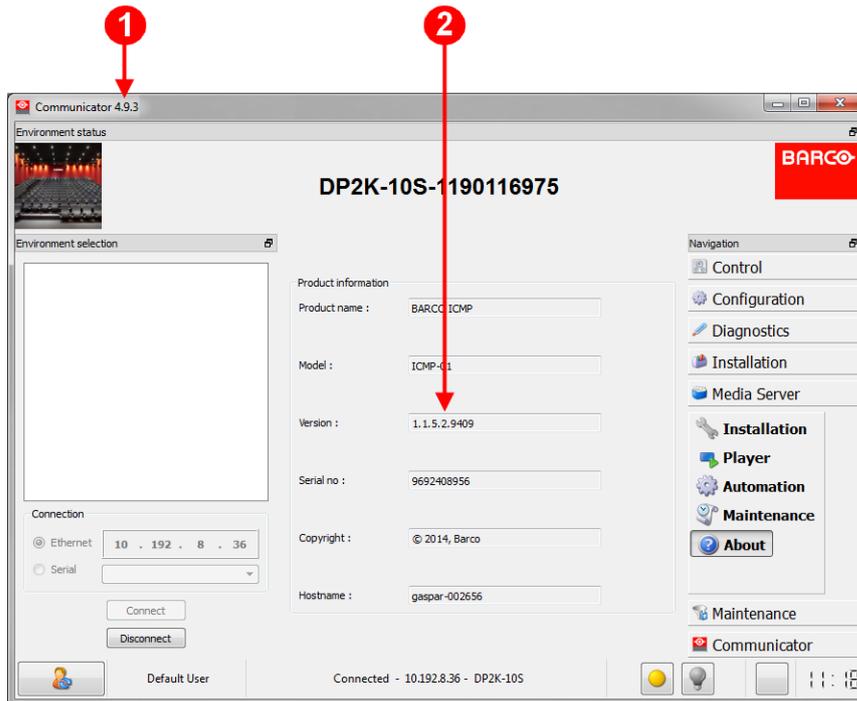


Image 1-1

1	Barco <b>Communicator</b> software version	The version is displayed on the top bar.
2	<b>ICMP software</b> version	Go to <i>Navigation</i> -> <i>Media Sever</i> -> <i>About</i> The version is displayed in the Product information section.

4. Install the Auro License for ICMP. See user guide Communicator or included procedure in this document "License settings, add license", page 4 .  
**Note:** *If no valid license is present then an invalid license is displayed to indicate that this feature is disabled.*
5. Import the setting file. With this action the user will modify the ICMP's settings to have a correct audio mapping with the Auro system. See user guide Communicator or included procedure in this document "Import of the ICMP settings", page 5 .

6. Verify if all Auro channels, thus also the upper channels (reference 3) are configured as desired. See example below.

Enable	Outputs	Default	SMPTE 5.1	SMPTE 6.1	SMPTE 7.1 SDDS	SMPTE 7.1 DS	D-BOX 5.1	D-BOX 6.1	D-BOX 7.1 SDDS	D-BOX 7.1 DS	AURO
Yes	AES 1	L	L	L	L	L	L	L	L	L	L
Yes	AES 2	R	R	R	R	R	R	R	R	R	R
Yes	AES 3	C	C	C	C	C	C	C	C	C	C
Yes	AES 4	LFE	LFE	LFE	LFE	LFE	LFE	LFE	LFE	LFE	LFE
Yes	AES 5	Ls	Ls	Ls	Ls	Ls	Ls	Ls	Ls	Ls	Ls
Yes	AES 6	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Yes	AES 7	HI	HI	HI	HI	HI	HI	HI	HI	HI	HI
Yes	AES 8	VI-N	VI-N	VI-N	VI-N	VI-N	VI-N	VI-N	VI-N	VI-N	VI-N
Yes	AES 9										HL
Yes	AES 10										HR
Yes	AES 11										HC
Yes	AES 12										HT
Yes	AES 13										HLs
Yes	AES 14										HRs



Image 1-2

**Note:** The settings proposed in the XML configuration file provides a default audio channel mapping.

- In case the channel mapping is not as desired (conform the connected audio system), then change the mapping manually. See user guide Communicator or included procedure in this document "Player Audio channel, edit", page 6 .
- Check if a valid Auro license appears in the list of available license on the ICMP.  
To display the list of available license you can use:
  - Barco **Communicator** : Go to *Navigation* → *Media Sever* → *Installation* → *License settings*
  - Barco **Commander** : Go to *Menu* (Top bar) → *About*
  - Barco **Web Commander** : Go to *Menu* (Top bar) → *About*

**Note:** Please check that the Auro license is present and valid according to the displayed icon and time window.

- Perform a test to check the installation. Refer to the section "Perform a channel test", page 8 .

## 1.2 License settings, add license

### How to add

1. While in *Installation*, click on **License settings**.
2. Click **Add license**.

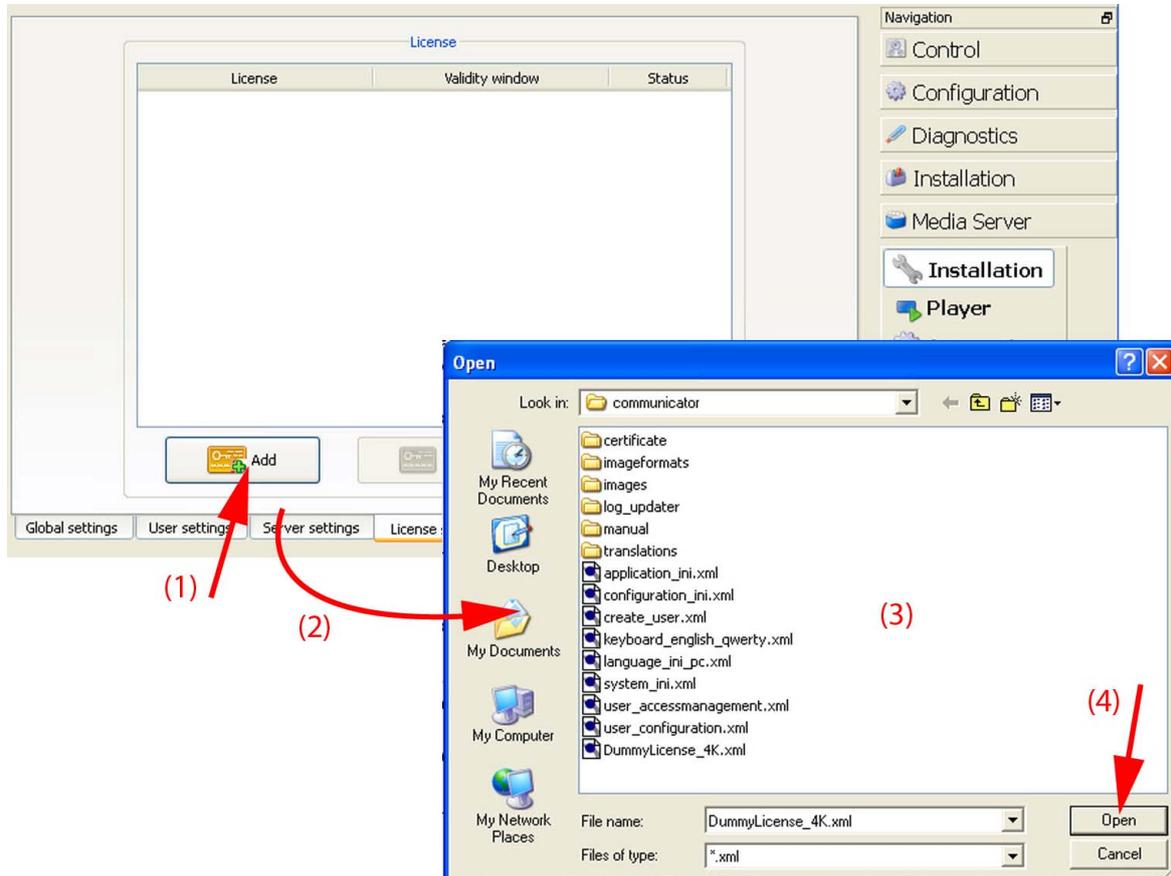


Image 1-3  
Add license

3. Browse to the license file and click **Open**.  
The file is uploaded. A message is displayed.

## 1.3 Import of the ICMP settings

### About import settings

Import of the ICMP settings allows loading all ICMP settings from file, necessary to operate the ICMP. Import of parameters is very useful to reload an existing configuration during a server exchange or when installing a multiplex with multiple identical installations.

### How to import

1. While in *Maintenance*, click on **Import settings** (1).

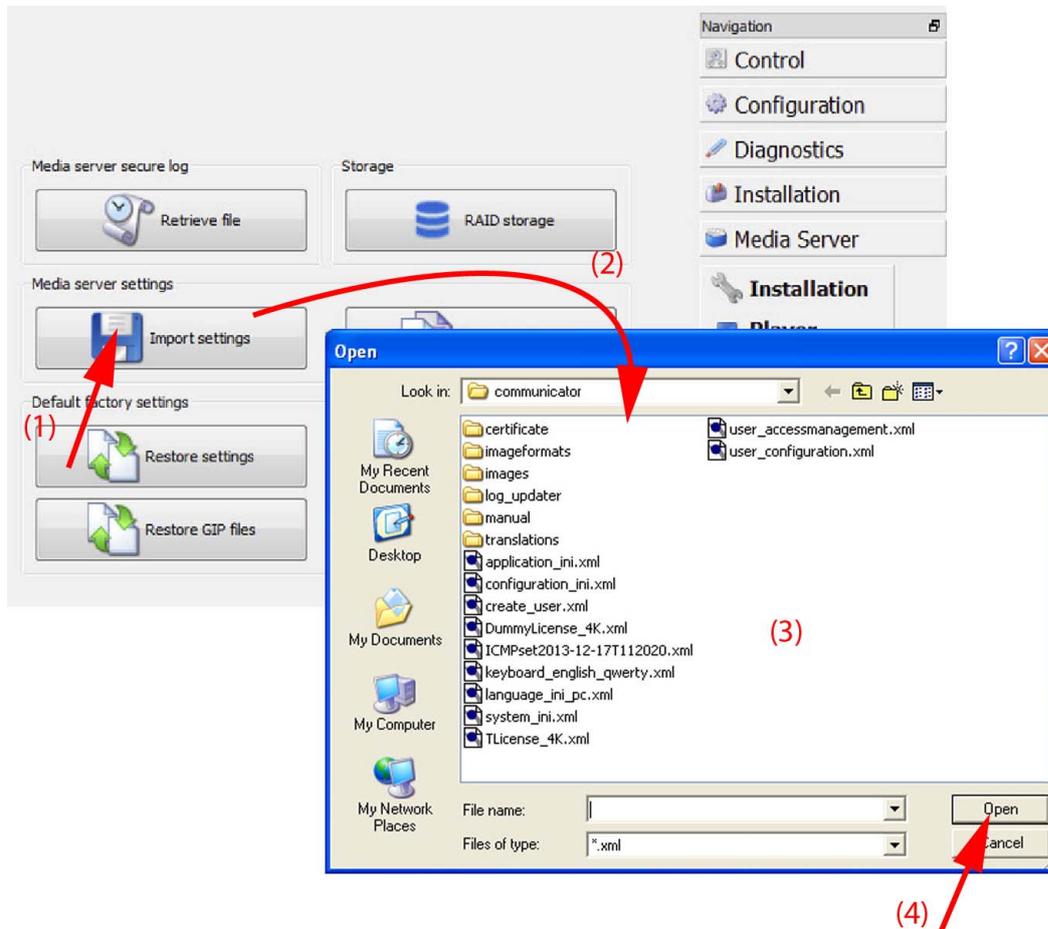


Image 1-4  
Import settings

- The *Open* window opens (2).
- Browse to the location of the configuration file (XML format) (3).
- Click **Open** (4).

The new settings are loaded and applied on the ICMP.

## 1.4 Player Audio channel, edit

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### About audio channel

The audio content in digital cinema is a multichannel sound system which can produce spatial sound signals to reproduce a sense of realism. Each channel is dedicated to a specific speaker.

The audio channel page allows to map the audio channels (content) on the audio output (AES outputs of the ICMP).

Within the content, audio channels are identified by labels (e.g. L, R, C...) according to predetermined standards (SMPTE 5.1, SMPTE 6.1 ...), or by default labels (CH01, CH02 ...). To assign an audio channel to an AES audio output, the desired label must be added to the output channel. Several input labels can be assigned to an AES audio output because a different source refers to different labels for input channels (e.g. "L", "CH01"). This will not lead to any conflict where two or more input channels from one source are assigned to the same output. Also note that an input channel could be assigned to several outputs if the user wants to clone that channel.

The ICMP has 16 AES audio output channels but all outputs must be activated. An optional attribute is used to indicate whether the AES output channel is physically connected or not. This is currently mainly informative for technicians.

Several standards are available by default, but via *Upload input configurations* it is possible to add more. An interested user might contact his Barco support representative to obtain those files.



**The units are leaving the factory preset for *Standard* channel mapping. These mapping is only changed in rare occasions or for troubleshooting reasons.**

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**Note on closed captioning devices: If the sound processor has no dedicated audio input for the HI (Hearing Impaired) – VI (Visually Impaired) channels you better adapt the channels to the range from 9 – 16 so you can use an extra cable from Alchemy to Sound processor.**

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### How to modify Audio Channel parameters

1. While in *Player*, click on **Audio channels**.
2. Click **Edit** (1).

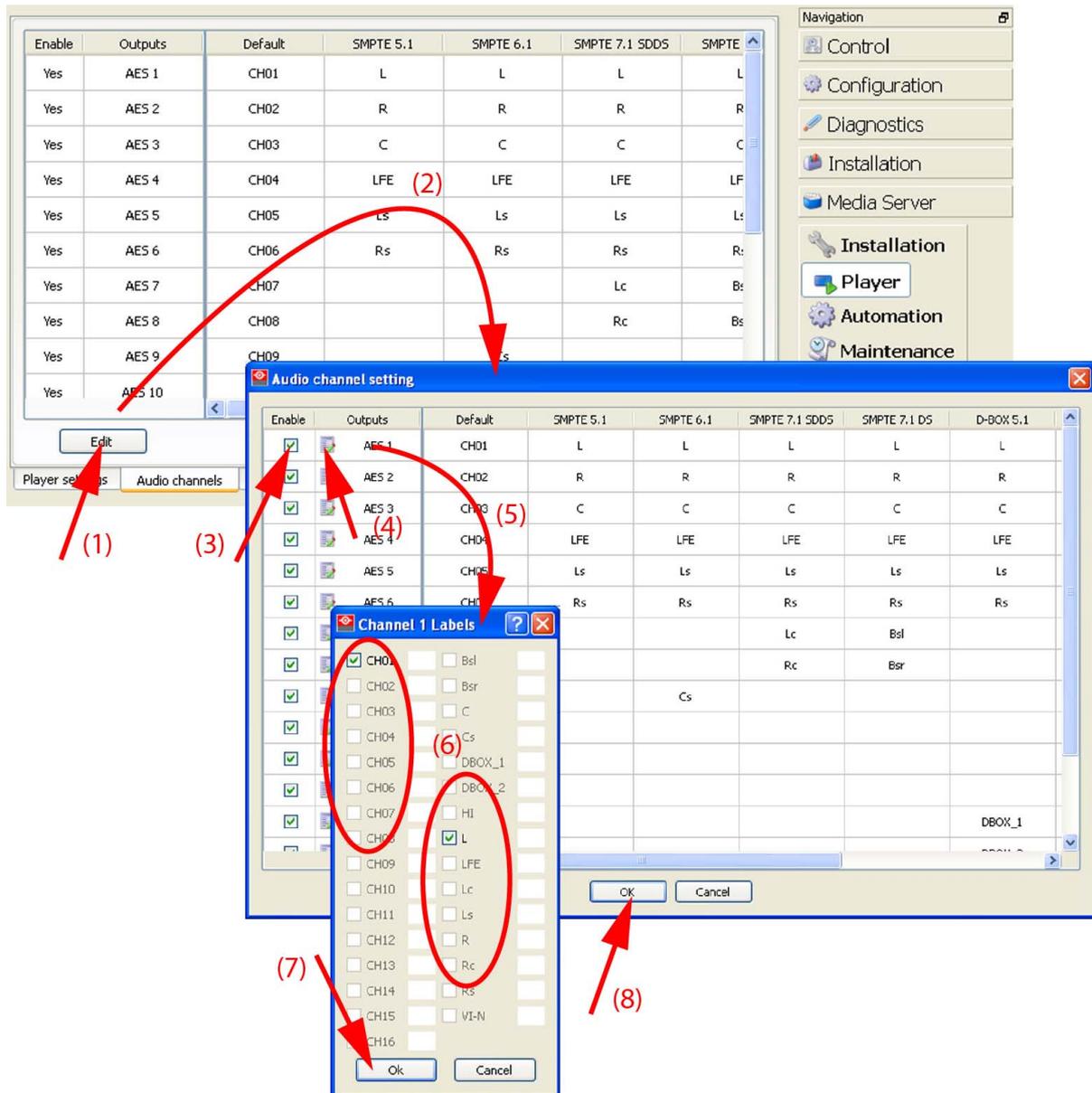


Image 1-5  
Audio channels

- The *Audio channel setting* edit box appears (2).
  - 3. Check the checkbox before an output to indicate that this output is enabled (e.g. AES1) (3).  
When not checked, the output is disabled.
  - 4. Click the Edit icon (4) next to the AES output to edit.  
The *Channel label* edit box appears (6).
  - 5. Select one or more labels (6). Inconsistent choices are automatically hidden.
  - 6. Click **OK** to activate the selection (7).
  - 7. To edit other outputs, repeat from step 3.
  - 8. Once configuration is finished, click **OK** to activate (8).
- The modified configuration is displayed in the *Audio channel* page.

## 1.5 Perform a channel test

### How to perform a channel test?

1. Download the channel test from the following location:  
[ftp://ftp.auro-technologies.com/Test\\_and\\_Calibration/Channel\\_Test\\_11\\_1/CHANNEL-TEST\\_TST\\_F\\_EN-XX\\_5-1\\_AURO\\_XCURVE\\_2K\\_GS\\_20120702\\_OV](ftp://ftp.auro-technologies.com/Test_and_Calibration/Channel_Test_11_1/CHANNEL-TEST_TST_F_EN-XX_5-1_AURO_XCURVE_2K_GS_20120702_OV)
  - **User name:** ProCinema
  - **Password:** 4Demos
2. Ingest the files on the ICMP and playback the content.
3. Use the screen on the front panel of the **AP24 Audio Processor** to check if all audio channels of the **Auro 11.1** sound format are used. The **VU meter** (Volume Unit meter), the device that displays a representation of the signal level in the audio equipment, display a bar that represent the signal level for each channel. Please refer to the **AP24 Audio Processor** user guide to obtain more details concerning the use of the **VU meter**.



Image 1-6



Currently, there is no feature to directly verify if the ICMP has correctly decoded a content with an Auro 11.1 sound format. This functionality will be available in a future release.