

User manual



Version 0.14.5

Light Stream

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1) First connection.

1.1) Supply and completion.

Light Stream Player comes in a special box for the safety of the device during transport.



1.2) First connection without internet.

Alternative setup.

1. Connect the Light Stream Player to a 12-36V power supply unit

2. Patch-cord cable, which is included in the kit, connect to the Light Stream Player in the Ethernet socket, and connect the other end of the cable directly into the network card of your personal computer or laptop.



There are two ways to connect: With and without internet access, directly to a PC.

Now we will consider the second method, but for full configuration it is recommended to connect to the Internet. to the Internet, which we will demonstrate below.

1.3) Configuring the network card.

What IP should I use?

Since Light Stream Player has a default IP address of 192.168.0.205, to connect to the Player webinterface via this IP address, we need to specify the IP address of your network card in the format 192.168.0., where the last number is different from 205, as it is the Player's address and is in the range from 1 to 255.



First, let's go into your network card settings.

To do this, we need to go to the **«Network Connections»** folder.

There are several ways to get to the right folder

1. The fastest way is to press the **«Win+R»** key combination to open the **«Run»** window, in this window we need to write the command **«ncpa.cpl»** and press the **«OK»** button.

🗐 Run	×
٨	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	ncpa.cpl v
	OK Cancel <u>B</u> rowse

2. You can also access the **«Network Connections»** folder through the Control Panel. To find the **«Control Panel»** let's use the **«Search»** in Windows. Press the **«Win»** key once and start typing the query. Type **«Control Panel»** in the search box and click on the **«Control Panel»** icon found.



If you have a **«Category»** view in the **«Control Panel»** folder that opens, under the category **«Network** and Internet», click on **«View network status and tasks»**.



If you have **«Large Icons»** or **«Small Icons»** view mode in **«Control Panel»** then find the **«Network and Sharing Centre»** shortcut and click on it once with the left mouse button. In this section, select the **«Change Adapter Settings»** category on the left and here we are in the **«Network Connections»** folder we need.



Save the original settings.

Open your network connection.

Network and Sharing Center					- 🗆 ×
← → × ↑ 🛂 > Control Pa	anel > All Control Panel Items > Network an	nd Sharing Center	~ Ō	Search Control Panel	م
Control Panel Home Change adapter settings	View your basic network inform View your active networks	ation and set up connections			
Change advanced sharing settings Media streaming options	Planeta-669319 Public network	Access type: Internet Connections:			
	Change your networking settings Set up a new connection or netw Set up a broadband, dial-up, or Set up a broadband, dial-up, or Troubleshoot problems Diagnose and repair network pro	work VPN connection; or set up a router or access poin oblems, or get troubleshooting information.	it.		

Go to the **«Details»** section and overwrite or copy your current network card settings by highlighting everything with the **Shift** key held down and pressing the keyboard shortcut **Ctrl+C**.

Paste them into any text editor and save the file. We will need them in the future to reset the network card settings to your network's original settings.

Close the **«Network Connection Details»** window.

Ethernet Status	× Network C	Connection Details	×	*Untitled - Notepad	- 🗆 ×
General	Network C	onnection Details:		File Edit Format View Help	
Connection IPv4 Connectivity: In IPv4 Connectivity: No network Media State: E Duration: 000 Speed: 1. Details Activity Sent — Re Byter: 9,258,055 - 264,1	Property ernet Connecti ccess Proyacal babled DHCP E 18:38 IPv4 Add Gbps IPv4 Sub Lease O IPv4 Sub Lease O IPv4 DN IPv4 DN IPv4 DN IPv4 WI IPv4 DN	Value on-specific DN on Realtek Gaming Gb Address 18-C0-4D-38-54-CB nabled Yes ress 192-168.0.116 inet Mask 255-255-255.0 stained Thuraday, November ipres Thuraday, November auft Gateway 192-168.0.1 S Servers 8.8.8.8 8.8.4.4 NS Server is Server Topip En Yes	F Family Controller	Connection-specific DNS Sur- Description: Realtek Gaming Physical Address: 18-C0-40D DHCP Enabled: Yes IPv4 Address: 192.168.0.110 IPv4 Subnet Mask: 255.255.2 Lease Obtained: Thursday, No IPv4 Default Gateway: 192.2 IPv4 DHCP Server: 192.168.0 IPv4 DHCP Server: 192.168.0 IPv4 WINS Server: NetBIOS over Tcpip Enabled Link-local IPv6 Address: fo	<pre>ffix: g GbE Family Cont -38-54-CB 5 5 5 5 5 5 5 5 6 5 5 6 6 6 6 6 6 6 6</pre>
Properties Diagnose Diagnose	IPv6 Def	ault Gateway	>	IPV6 Default Gateway: IPv6 DNS Server:	
			Chara	<	>

 \times

Configuring the IP address of the network card.

If you have multiple network cards, you need to find the network connection that is currently used by Light Stream Player. You can reconnect the cable again and see which icon changes.



Find **«IP version 4 (TCP/IPv4)»** in the list of components, select this component and click **«Properties»**. Select **«Use the following IP address:»** In the **«IP Address:»** field, enter a new IP, for example **192.168.0.112.**

Ethernet Status	×	Ethernet Properties	X IP версии 4 (TCP/IPv4) Properties
General		Networking Sharing	General
Connection IPv4 Connectivity: IPv6 Connectivity: No net Media State: Duration: Speed: Details	Internet work access Enabled 00:30:54 1.0 Gbps	Connect using: Reatek Gaming GbE Family Controller This connection uses the following items:	You can get IP settings assigned automatically if your network this capability. Otherwise, you need to ask your network admi for the appropriate IP settings. Obtain an IP address automatically © Use the following IP address: IP address: IP address: IP address: 255 . 255 . 255 . 0 Default gateway:
Activity Sent Sent Bytes: 11,243,256 4	Received 10,305,038	Install Uninstall Properties Description Протокол ГСР/Р. Стандартный протокол глобальных сетей, обеспечивающий связь между различными	Obtain DNS server address automatically Isse the following DNS server addresses: Preferred DNS server: Alternate DNS server:
Properties Diagnose Diagnose	Close	взаимодействующими сетями.	Validate settings upon exit Ad

Click **«OK»**, this completes the IP address setting of the network card.

1.4) Access to the web interface.

Now we go to your web browser.

In the address bar of the browser enter the IP address of Light Stream Player **192.168.0.205.** In the opened page of the Player web-interface enter Username and Password, by default **administrator** and **administrator** in English layout and with a small letter.

← С ▲ Небезопасно 192.168.0.205 //en/login		3 다 수 🛈 🗞 … 🖬
	Light Stream Player	
	Username: administrator	
	Password:	
	Login Brglish	

You can now change the IP address of LightStream Player to your network address.

You can set it in «Manual» mode or select «Auto (DHCP)».

Let's break down the **«Manual»** setting.

Under **«Settings / Network»,** click Modify next to the Ethernet section and type in IP address of your subnet.

Light Stream	\equiv Ekaterinburg Light Stream office $igoldsymbol{Q}$			En
version 0.14.5	Ethernet 1	• up ^	Ethernet 2	• up ~
Scheduler Cues Playlists	IP Assignment: Manual IP Address: 192.168.0.204 Network Mask: 255.255.255.0 Gateway: 192.168.0.1 Mac Address: d8.3a.dd.86.14.76	Edit	IP Assignment: Manual IP Address: 2.0.018 Network Mask: 255.0.0.0 Gateway: Mac Address: 00.1e.c0.00.00.09	Edit
≁ ⊳ Triggers	DNS Assignment: Manual DNS Servers: 8.8.8.8	Edit	DNS Assignment: Manual DNS Servers:	Edit
💻 Devices 🗸 🗸	LTF modem	1		
Settings Player Location Universes	IP Assignment: Automatic(DHCP) IP Address: Network Mask: Gateway: Mac Address:	Edit		
O Date and time	DNS Assignment: Automatic(DHCP) DNS Servers:	Edit		
O Network	APN: static.ural Username: mts Password: mts Status: disconnected	Edit		
O License				*
O Logs O Logo	13:45 November 2024 no playback			

For example, **if your computer was in another subnet and used IP address 192.168.5.14,** then you should change the IP address of LightStream Player to **192.168.5.** and enter the last digit different from the IP addresses of your PC, router and other devices in your subnet. Don't forget to specify the Netmask **255.255.255.255.0** and the Gateway of your subnet, which is the address of your router (you can see it on the saved data we copied in the beginning).

Edit network IP set	tings	
IP Assignment: Manual		~
IP Address: 192.168.0.204		
Network Mask: 255.255.255.0		
Gateway: 192.168.0.1		
*indicates required field		
	Cancel	Save

The gateway address is needed to access the internet when we connect LightStream Player to the router.

Next, specify DNS server, you can use public **DNS 8.8.8.8.8**. Click the **Save** button and save the data.

Edit DNS settings		
DNS Assignment: Manual		.
Primary DNS server: 8.8.8.8		
Secondary DNS server:		
*indicates required field		
	Cancel	Save

1.5) Return your network to its original settings.

We have configured LightStream Player to be on the same subnet as your devices. You can reset

your network card settings to the original settings.

We copied them at the very beginning of the setup.

Just go into the **«Network Connection»** folder, open your network card settings and overwrite the values from the saved data of the original setting. You can simply **copy/paste** the fields from a text editor.

Ethernet Status	×	Image: Second	etails ×
General		File Edit Format View Help Network Connection Deta	ils:
Connection IPv4 Connectivity: IPv6 Connectivity: Media State: Duration: Speed: Details Activity	Internet No network access Enabled 00:18:38 1.0 Gbps	Connection-specific DNS Suffix: Description: Realtek Gaming GbE Family Cont Physical Address: 18-C0-4D-38-54-CB DHCP Enabled: Yes IPv4 Address: 192.168.0.116 IPv4 Subnet Mask: 255.255.0 Lease Obtained: Thursday, November 14, 2024 Lease Expires: Thursday, November 14, 2024 IPv4 DHCP Server: 192.168.0.1 IPv4 DHCP Server: 192.168.0.1 IPv4 WINS Servers: 8.8.8, 8.8.4.4 IPv4 WINS Server:	Value Reattek Gaming GbE Family Controlle 18:C0-40-38:54-CB Yes 192.168.0.116 255.255.255.0 Thursday, November 14, 2024 2:37:1 Thursday, November 14, 2024 3:02:1 192.168.0.1 192.168.0.1 8.8.8.8 8.8.4
Sent — Bytes: 9,258,0	- Received	NetBIOS over Tcpip Enabled: Yes IPv4 WINS Server Link-local IPv6 Address: fe80::2475:582b:e8 NetBIOS over Tcpip En IPv6 Default Gateway: IPv6 Address: fe80::2475:582b:e8 IPv6 DNS Server: IPv6 Address	Yes fe80::2475:582b;e8f9:9692%14
Properties Oisable	Diagnose Close	<	Close

If your network card has been configured to obtain an IP address automatically, select **«Obtain an IP address automatically»** and click **«OK»**.

IPv4 Connectivity	/:	Internet	t i
IPv6 Connectivity	/:	No network access	
Media State:		Enabled	i i
Duration:		00:30:54	+
Speed:		1.0 Gbps	5
Activity			_
Activity	Sent —	Received	
ActivityBytes:	Sent — 11,243,256		3

working Sharing			
onnect using:			
Ţ Realtek Gaming G	bE Family Controller	•	
		Config	jure
his connection uses the	e following items:		
🗹 🏪 Клиент для се	тей Microsoft		^
🗹 🖳 Общий доступ	к файлам и принт	ерам для сет	ей Мі
🗹 🐙 Планировщик	пакетов QoS		
IP версии 4 (Т	CP/IPv4)		
🗌 🔔 Протокол мул	ьтиплексора сетев	юго адаптера	a (Mai
🗹 🔔 Драйвер прот	окола LLDP (Майкр	ософт)	
IP версии 6 (Т)	CP/IPv6)		~
c			>
Install	Uninstall	Proper	ties
D in the	ormitatum	riope	100
Description			
Протокол ТСР/ІР. С	тандартный проток	сол глобальн	ых
сетей обеспециязю		DODINI HIDIMINI	
сетей, обеспечиваю взаимодействующи	ми сетями.		

версии	1 4 (TCP/IPv4) Prope	rties)
General	Alternate Configurati	ion				
You car this cap for the	get IP settings assign ability. Otherwise, you appropriate IP setting:	ned automatic u need to ask s.	ally if your r	your n networ	etwork s 'k admini:	upports strator
O	tain an IP address au	tomatically				
	e the following IP add	ress:				
IP ac	ldress:		1.		1.0	
Subr	et mask:					
Defa	ult gateway:		1			
Oot	tain DNS server addre	ess automatic	ally			
O Us	e the following DNS se	erver address	es:			
Prefe	erred DNS server:					
Alter	nate DNS server:					
V	alidate settings upon e	exit			Adva	nced

1.6) Completing the setting

Now, to access the web-interface of your Light Stream Player, you need to enter the IP address that we have entered in its settings. In this example, it is **192.168.5.21.**

Let's now connect an internet connection to our chain to fully configure Player and synchronise with World Time.

To do this, connect Light Stream Player to the router to which your PC is connected to access the Internet, then LightStream Player and your PC will be on the same subnet and will have access to the Internet.

Now you can go to the Light Stream Player web interface to configure it in detail.

You can also add to this chain Light Stream Converter,

which is also connected to the router.

To configure the Converter and change its IP address, use the Player's web interface or via the Light Stream programme.





2) Web-interface. Authorisation.

Access to Player is carried out using a web-browser at the specified IP address from a stationary computer or phone (tablet, the IP address for access to Player should be specified by the IT service. computer or phone (tablet, the IP address for access to Player should be clarified with the IT service). The Player interface login page is loaded. If it turns out that you have selected any other language, you can click on \bigoplus and change it to English.

← С ▲ Небезопасно 192.168.0.205 [#] /еп/login		3 ☆ 3 0 ☆ 🖨 % … 🗉
	Light Stream Player	·
	Username: administrator	
	Password:	
	Login English	

Access details:

IP address:

User name: administrator (by default)

Password: administrator (by default)

Then you get to the interface of Light Stream Player.

-			
	Light Stream	Ekaterinburg Light Stream office ♥	⊕ En
	Player		
	version 0.14.5		
	Scheduler		
	Lues		
	Playlists		
10	Triggers		
	Devices ~		
	C -W		
	Settings V		

The main menu can be hidden, if desired, by pressing the button \equiv .



3) «Schedule» tab

1	Light Stre	am	= Ekaterinburg Ligh	ht Strea	am office ♀					En
	Player version 0.14.5								-	🗎 Calendar 🛛 🗏 Event list
	Scheduler		month week day	today	5		< November	2024 >		+ Add event
			Mon		Tue	Wed	Thu	Fri	Sat	Sun
Ē	Cues			28	29	30	31	1	2	3
►	Playlists			4	5	6	7	8	9	10
40	Triggers							18:00 - 02:00 еке4е4е4	18:00 - 02:00 exe4e4e4	18:00 - 02:00 exe4e4e4
	Devices	~	18:00 - 02:00 exe4e4e4	11	12 18:00 - 02:00 exe4e4e4	13	14 18:00 - 02:00 exe4e4e4	15	16 18:00 - 02:00 еке4е4е4	17
\$	Settings	~	18:00 - 02:00 еке4е4е4			18:00 - 02:00 еке4е4е4		18:00 - 02:00 exe4e4e4		18:00 - 02:00 exe4e4e4
			18:00 - 02:00 evededed	18	19 18:00 - 02:00 evededed	20	21 18:00 - 02:00 evededed	22	18:00 - 02:00 evededed	24
			18:00 - 02:00 еке4е4е4		10:00 02:00 04040404	18:00 - 02:00 exe4e4e4	10.00 02.00 040404	18:00 - 02:00 exe4e4e4	10:00 02:00 06040404	18:00 - 02:00 exe4e4e4
				25	26	27	28	29	30	1
			18:00 - 02:00 exe4e4e4		18:00 - 02:00 exe4e4e4	18:00 - 02:00 evededed	18:00 - 02:00 exe4e4e4	18:00 - 02:00 evededed	18:00 - 02:00 exe4e4e4	18:00 - 02:00 eveloted
			10.00 02.00 0.040404			10.00 02.00 04040404		10.00 02.00 04040404		10.00 02.00 0.010404
				2	3	4	5	6	7	8
			18:00 - 02:00 еке4е4е4 18:00 - 02:00 еке4е4е4		18:00 - 02:00 exe4e4e4	18:00 - 02:00 exe4e4e4	18:00 - 02:00 exe4e4e4	18:00 - 02:00 exe4e4e4	18:00 - 02:00 eke4e4e4	18:00 - 00:00 exe4e4e4
			14:39)		back				

In the window of this tab, you can configure the schedule for launching playlists.

The list of all events is presented in calendar form by default, as well as there is an opportunity to to view the list of events for a week or a certain day, using buttons **month week day** to switch between window views. To switch between months (weeks or days) use buttons < >. The button today \bigcirc returns the calendar to the current day.

You can also view the list of events as a sheet by pressing the button $~~\not\equiv~~ {\tt Event}~ {\tt list}$.

Light Stream	Ekaterinburg Light	Stream office 👂					En Q Administrator
Player version 0.14.5							🛗 Calendar 🧏 Event list
Scheduler							+ Add event
E Guer	Event	Frequency	Start	End	From	То	Playing
Cues	еке4е4е4	8 марта DAILY	2024-11-08	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	18:00	02:00	cue: Composition003.cue
Playlists							
 ✓ Triggers 							
Devices V							
🔅 Settings 🗸 🗸							

On this tab you can view and editall events created on the Player at once

- Event event name
- Start event start date
- End event end date
- From time when the event will be triggered on the specified dates
- To the time when the event will end on the dates indicated
- Playlist the selected playlist that will be played when this event is triggered
- **Priority** the priority of the order of triggering events (the higher the priority

- the more important it is when triggering)

To create a new event, press + Add event .

In the window that opens, enter the name of the event, select a previously created playlist.

To create an event scheduled on a specific date and time, select \odot on-time, then click on the "Date" section to assign a date for the event in the opened calendar.



After selecting the date, it is necessary to set the event operation mode, which can be configured in three ways:

1. By set time

To configure the event to play at a given time, you just need to set the desired start time and cut-off time in the fields next to the clock «From» and «To». In this case the event will run in the selected time interval.

From	()	Time 17:30	То	()	Time 23:30
lfyou	select	an end time after 00:00, the event will a	utom	atical	ly advance to the next day.
From	()	Time 18:00	То	()	Time 02:00

If the start time is later than the off time, the event will start at the set time and set day, then automatically reschedule to the next day and play until the set time.

		Time			Time
From	(20:00	То	()	18:00

2. Throughout the day

To have the event played all day long, you must specify the start time of the event as 00:00 and the end time as 00:00 of the next day.

		Time			Time
From	(00:00	То	(00:00

3. By astronomical relay

To set the astronomical relay event playback, you need to press on one of the clocks, then the menu will open. one of the clocks to open a menu of choices.

<u>_ظ_</u> sunrise
🗲 sunset
() by time

To enable the event:

From	Time <u>-'d'-</u> sunrise	ŀ		То	(Time 00:00	
When i	sunsetby time	date	O repetitions	0	neve	er	
End 20	Date 24-11-12				0	Time 00:00	

To deactivate the event:

From (S) 00:00	To	- <u>``-</u> sunrise
When is the end? • date • repetitions	0	🦕 sunset
O adde O repetitione	0	() by time
End Date 2024-11-12		Time () 00:00

Let's consider the most popular variant of triggering an event: Start at sunset and switch off at sunrise.

To set this mode of operation, select «sunset»(moon icon) in the left field,

and in the right field «dawn» (sun icon).

	Offset			Offset
From 🌜	0	То	<u>-``</u> .	0

When selecting options other than time-based switching, the selected time of day input field is replaced by a numeric time input field in which the on/off shift time can be specified.

The shift time is set in minutes.

By default, the 'Shift' fields are set to 0 minutes. With such values and such setting (as on the screenshot below) switching on and switching off will occur simultaneously with sunset and sunrise respectively.

The time in these fields can be either positive or negative.

		Offset			Offset
From	6	-30	То	<u>-``</u> .	60

For example, when the shift time settings are set above:

Astronomical time is scheduled to start at 21:36, and this parameter is set to -30 (minutes), with this setting the event will start at 21:06 (30 minutes before sunset)The astronomical time is scheduled to end at 05:32, and this parameter is set to 60, with this setting the event will shut down at 06:32 (60 minutes after sunrise)

The astronomical relay start variants can be combined with each other and configured in different ways

For example, you can set the event triggering mode to start at sunset and switch off by time, e.g. B 22:00:

	Offset			Time
From 🕻	0	То	(22:00

Conversely, make the event switch on time at 18:00 and switch off at dawn:

		Time			Offset
From	(18:00	То	<u>-``</u> .	0

Important, if you set the values the other way round, switching on at dawn and switching off at dusk, then accordingly the event will work only during daytime.

		Offset			Offset
From	<u>-`</u> `.	0	То	6	0

Note. In order for the astronomical relay to work correctly based on the location of the object, in the Player settings you need to specify its exact coordinates, or the coordinates of the city where the object is located.

To do this, go to the **Settings - Location** menu and set the required **Latitude** and **Longitude** parameters.

Location		
Name	Ekaterinburg	
Address	Light Stream office	
Latitude	56.821019190097616	
Longitude	60.59559633825783	
Geolocation	Open in Google Maps	

You can find out the coordinates of any object or city using any online maps or internet search. For example, the city of Yekaterinburg is located at coordinates 58.8519, 60.6122 and the city of Moscow at coordinates 55.7522, 37.6156

Light Stream

After the configuration of the event is complete, press the button **Save**. After that the event will appear in the calendar on the appointed day.

	21		22
18:00 - 02:00 еке4е4е4			
		18:00 - 02:00 exe4e4e4	

Next, you need to enter the required parameters.

- Title the name of the event
- Play here you can choose whether to play an animation or a playlist from previously created playlists in the Playlists section
- **Repeat** here you can select the number of of event repetitions and prioritise them
- Start date and Time time and date on which the event becomes operational (this is the date from which the following conditions will be fulfilled)
- Frequency periodicity mode selection
- From start time of this event
- To event end time
- When is the end? event termination parameters

*Title			
Play () animation (Dplaylist Playlis	st	
Repeat	O On-time	• recurrent	Priority 1
Start Date 2024-11-11		() Time 00:00	
Frequency:			
O YEARLY O MON	THLY O WEEKLY	• DAILY O HOURLY	
-			
Every 1	day		
Every 1 From (S) 00:00	day	_ To (
Every 1 From ③ 00:00 When is the end? ○ d	day ate () repetitions	To C <u>00:00</u>	

There are several modes for selecting the frequency of a recurring event (Frequency):

• Yearly - the event will be launched every year on the specified month and day and time (so you can create events for major holidays, for example, every year on the 8th of March will beevery year on 8 March).

Frequency	:			
• YEAR	ly O monthly C) weekly () da	AILY O HOURLY	
Every	1 year			
on		•		•
From 🕓	Time 00:00	το 🤇	Time 00:00	



• **Monthly** - the event will be launched every month on the specified days and time (e.g. every new month on the 1st of the month some unique animation will play)

Frequency:
O YEARLY MONTHLY O WEEKLY O DAILY O HOURLY
Every 1 month
□ 23 □ 24 □ 25 □ 26 □ 27 □ 28 □ 29 □ 30 □ 31
From (S) 00:00 To (S) 00:00

• Weekly - the event will be launched every week on the selected days of the week at the specified time (so you can create a unique event for all weekends, which will play only on Sat. and Sun).

Frequency: O YEARLY O MONTHLY O WEEKLY O DAILY O HOURLY			
Every 1 week			
□ mo □ tu □ we □ th □ fr □ s	sa 🗆 su		
From (00:00 To (Time 00:00		

• **Daily** - the main parameter that is likely to be used most often the others. The event will be triggered every day at the specified time, if Each = 1, then the event will be triggered every day.

Frequency:				
O YEARLY O MONTHLY O WEEKLY				
Every 1 day				
From () Time 00:00	To (S) Time 00:00			



• Hourly - repetition at hourly intervals. The time interval is set on a minute-by-minute basis.

Frequency	Γ.
O YEAR	rly O monthly O weekly O daily 💿 hourly
Every	1 1 hour
from	0 to 30 minutes

For each of the periodicity modes (Frequency) you can set the «When is the end?» option, to indicate when the event should end.

 Date - definite end date 	When is the end?
	End Date Time 2024-11-12
• Repetitions - selection of the	
number repetitions	When is the end? () date () repetitions () never
	Repetitions: 1
- Never	When is the end? () date () repetitions () never

After the event configuration is complete, you should press the **Save**.

The event will then appear on your calendar on the designated day.

4) «Cues» tab.

/ Light Stream			🕀 En 🔞 Administrator
Player version 0.14.5	1 Upload Cue C Refresh	EL Filename	- Q Search
Scheduler	Composition007.cue	Composition008.cue	Composition009.cue
E Cues	Duration: 60 sec Frames: 22640 Universes: 11	Duration: 60 sec Frames: 2640 Universes: 11	Duration: 60 sec Frames: 2640 Universes: 11
Playlists	Number of uses: 1 Uploaded: 12.11.2024	Number of uses: 1 Uploaded: 12.11.2024	Number of uses: 1 Uploaded: 12.11.2024
 ✓ Triggers 	Composition010.cue	Composition011.cue	Composition012.cue
Devices 🗸	Duration: 60 sec Frames: 2640	Duration: 60 sec Frames: 2640	Duration: 60 sec Frames: 2640
🌣 Settings 🗸 🗸	Universes: 11 Uploaded: 12.11.2024	Universe: 11 Number of uses: 1 Uploaded: 12.11.2024	Universes: 11 Number of uses: 1 Uploaded: 12.11.2024
	Composition013.cue	Composition014.cue	Composition015.cue
	Duration: 60 sec Frames: 2640	Duration: 60 sec Frames: 2640	Duration: 60 sec Frames: 2640
	Universe: 11 Upbaded: 12.11.2024	Universe: 11 Number of uses: 1 Uploaded: 12.11.2024	Universe: 11 Number of uses: 1 Uploaded: 12.11.2024
	Composition016.cue		
	Duration: 60 sec Frames: 2640 Universe: 11		
	Number of uses: 1 Uploaded: 12.11.2024		ş
	14:27 IN November 2024		

The window of this tab contains a list of animations downloaded to the Player.

The list provides information about the animations that have been downloaded:

- Duration animation duration;
- Frames animation frame count;
- Universes the number of universes involved in the animation;
- Number of uses playlist usage;
- Uploaded download date.

The button is used to load animations **d** Upload Cue .

To select files in the opened window, click on any place in the selection field,

.cue Drag.cue files here or upload file

after the list of files to be downloaded appears, click on Upload .

To delete the loaded animation, press the button 🔟 .

The button is used to update the animations **C** Refresh.

On the tab **L** Filename • it is possible to organize animations by their characteristics.

At the bottom of the interface is the animation playback timeline.

13:23 05 November 2024	Composition007.cue	0:30

When you press the button \blacktriangleright animation starts.

When you press the button 🔳 animation turns off.



5) «Playlists» tab.

/ Light Stream	Ekaterinburg Light Stream office ♥	🔀 En 🔞 Administrator
Player version 0.14.5	+ Add Playlist	
Scheduler	The first one	∧ □ □ Duration: 19 min 28 sec
Cues	x x x x x x x x x x x x x x x x x x x	×
Playlists	STR. STR. STR. STR.	
 ✓ Triggers 		
Devices 🗸	Composition002.cue Composition004.cue Composition003.cue Composition001.cue	Composition006.cue Composition007.cue
🌣 Settings 🗸 🗸	Duration: Duration: Duration: Duration: 30 sec 5 min 0 sec 2 min 0 sec 1 min 0 sec 1 1 1 1	Duration: 4 sec 1 1 1 1 1 1 1 1 1 1 1
	test 15sec.cue Composition 005.cue Duration: 1 1 1	
	Second	Duration: 53 sec
	16:02 I2 November 2024 In playback	×

This tab window contains a list of playlists.

When you click on the button 📝 all animations installed in this playlist with a demo picture will appear.

To create a playlist, press the button **+ Add Playlist**, in the window that opens enter a name and click **Save**. Для добавления анимации в плейлист необходимо нажать **+ Add compositions**.

In the window that opens, select an animation from the previously loaded animations by clicking on +. Then it is necessary to click on the button Add.

To add multiple animations to a playlist you need to mark desired ones by clicking on + , the selected ones will display image <. Next, click on the button Add and the animations will load into the playlist.





6) «Triggers» tab

Light Stream	Ekaterinburg Light Stream	m office ♀						0	En 🔘 A	dministrat	or
Player				Triggers							
version 0.14.5	Triggers								A	dd trigger	
Scheduler	Check Name		Туре		Action						
Cues	test		Di		문 Add action						
Playlists	сценарий		RawUDP		-다 Add action						
≁ ⊶ Triggers	стоп		RawUDP		라 Add action						
							Rows per page:	10 👻	1-3 of 3	< >	>
🔹 Settings 🗸	DI				DO						
www.scrongs		State				Off/On					
	Port 1	•			Port 1	0					
	Port 2	•			Port 2	0					
	Port 3	•			Port 3						
											- 1
											×
		•									Ŷ
	16:43 12 November 2024	() no playback									

The Player provides the ability to trigger downloaded animations or playlists by external triggers

- triggering by Art-Net signal from Converter (or other Art-Net device);
- triggering on Raw UDP message on a specific port.

To add a trigger, press the button Add trigger . In the window that opens, enter a name (an explanatory name for the list), select the appropriate trigger type.

Art-Net trigger:

In the opened window it is necessary to fill in all trigger parameters:

- Listen port default 6454 (port change must be coordinated with the control device with the control device);
- Universe number of the universe from which the signal will be received;
- Channel number of the channel from which the signal will be received (from 1 to 512);
- Min Level minimum signal level, after reaching which trigger;
- Max Level maximum signal level, after reaching which the trigger is not activated.

New Trigger		
Name		
Trigger type ArtNet		•
Listen port 6454		
Universe		
Channel 1		
Min Level 1		
Max Level 255		
	Cancel	Save

After filling in all trigger parameters, you should save the settings by pressing Save .

Raw UDP trigger:

The following fields are filled in for this type of trigger:

- Listen port default 1025 (port change must be coordinated with the control device agreed with the control device);
- **Data** UDP message content.

New Trigger		
Name		
Trigger type RawUDP		•
Listen port 1025		
Data		
	Cancel	Save



DI trigger:

The following fields are filled in for this type of trigger:

- DI port port number
- Port state activated or deactivated.

New Trigger	
Name	
Trigger type Di	•
Di port 1	•
Port state Activated	•
	Cancel Save

After adding a trigger, it must be assigned an action,

you can do this by pressing 🕂 Add action .

In the window that opens, fill in the line with the name of the action and select the action itself (play, stop and set DO port state):

New action	
Action type Play	•
● cue	
Cue	•
repeat 1	
O infinity	
	Cancel Save

Also in this window you can specify the number of repetitions, or set the infinite playback mode.



 \bigcirc infinity

New action		
Action type Stop		•
	Cancel	Save

You can use this action to stop playback.

New action	
Action type Set DO port state	•
D0 port 1	•
Port state Activated	Ŧ
	Cancel Save

The «Set Do port state» action allows you to select the port number of the device, and assign the «Activated» and «Deactivated» states to it.

Once you have filled in all the action parameters, you must save the settings by pressing **Save**. You can delete an action by pressing the **a**.

You can delete a trigger by clicking on the line with its name in the list and in the opened window click the button «Delete».

Triggering is indicated by a green signal in the corresponding trigger line.

•	artnet trigger #1	ArtNet		play cue 1 🖀
DI]	DO	
	State			Off/On
Port 1	•		Port 1	0
Port 2	•		Port 2	0
Port 3	•		Port 3	0

This tab also displays the status of Di and Do ports.

The DI window shows the port status by colour indication.

You can manually enable/disable any port in the Do window.

7) «Devices» tab.

Light Stream	Ekaterinburg Light Stream office	Q					⊕ ⊧	n 🕲 Administrator
Player version 0.14.5	ArtNet devices							
Scheduler	Name	lp	Туре	Firmware	Status	Ports	Rdm devices	Actions
Juleouer	LightStream Player v1	192.168.0.201	Lighting console	0.14	Power On Tests successful	1	0	
Cues	LightStream Player v1	192.168.0.200	Lighting console	0.14	Power On Tests successful	1	0	
Playlists	Converter 6-767B0A	192.168.0.27	Dmx converter	OS-G v1.9.10.22	Power On Tests successful	6	0	•••
Trinners	Converter 6-756725	192.168.0.44	Dmx converter	OS-G v1.9.10.19	Power On Tests successful	6	0	
inggels	Converter 6-4F6E29 DemoPanel	192.168.0.100	Dmx converter	OS-G v1.9.10.18	Power On Tests successful	6	0	
Devices ^	Converter 6-915421	2.145.84.33	Dmx converter	OS-G v1.9.10.22	Power On Tests successful	6	0	
O ArtNet						Rows p	er page: 10 💌	1-6 of 6 < >
O Rdm								
🌣 Settings 🗸 🗸								
								*
	11.21	G						
	13 November 2024		< Contract of the second secon					

With Player you can detect and control Art-Net devices.

Light Stream	≡ Ekaterinburg Light	t Stream office 🍳											En
Player version 0.14.5	ArtNet devices	Converter 6	-767B0/	۹.						Identify			
Scheduler	Name										Ports	Rdm devices	Actions
	LightStream Player v1	Long name:	Converte	er 6-767B0A	1						1	0	
Cues	LightStream Player v1	Туре:	Dmx cor	iverter							1	0	
Playlists	Converter 6-767B0A	Status:	Js: Power On Tests successful								6	0	
Trioners	test	IP address:	ss: 192.168.0.27 🖌								0		
inggers	Converter 6-915421	Firmware:	OS-G v1	9.10.22							6	0	
🕎 Devices 🔨	LightStream Player v2	Merge type:	SINGLE	1							4	0	
O ArtNet			N ²	Name	Out signal	Universe	Rdm	Тх				Rows per page: 10 👻	1-6 of 6 < >
O Rdm			1	#DMXOUT1	DMX	5	off						
🗱 Settings 🗸 🗸			2	#DMXOUT2	DMX	6	off						
		Ports:	3	#DMXOUT3	DMX	7	off	•	1				
			4	#DMXOUT4	DMX	8	off	•					
			5	#DMXOUT5	DMX	9	off						
			6	#DMXOUT6	DMX	10	off	•					
			Break tin	ne: Mab time:	Chan time:	Pause time:	Chann	el count:					
		Dmx settings:	90	8	48	48	512		1				
			Max FPS	40 🥎									
			Key:	Subkey:	Data:								
		Send macros:	55	- 27	-				Send				*
	10.77												
	10:23	(ト)	no pla	ayback									
	14 November 2024												



You can also use Player to detect and control Rdm devices.

To detect Rdm devices, press the button **Rediscover** .

/ Light Stream	Екатеринбург Офис L	ight Stream 💡									HRU O Administrator
Player version 0.14.5		Устройства Rd	т Группи	ровать п	0	*	Искать		Q	Искать	
Расписание		Uid L	Label Description	Manufa	cture	Category	Dmx address	Converter address ↑	Converter port 1		
- Анимации		0303:1000284d	50W 4CH LED DRIVER	MOON	S'	DIMMER_CS_LED	13 - 16	192.168.0.100	2	C 、	-
		Identify device	not started	Start	Stop	C					
		Dmx start address	13	Set	G						
✓< Триггеры		Software version	V 000001.04	G							
🚆 Устройства 🔨		10001	sensor: 0	G		sensor: 1	G	sensor: 2		C	
O ArtNet			lowest detected value: 0 highest detected value: 0	Set		lowest detected value: 0 highest detected value: 1	Set	lowest detected value: 0 highest detected value: 0 recorded value: 0	Set		
O Rdm			recorded value: 0	Def		recorded value: 0	Def		Def		
🗱 Настройки 🗸			sensor: 3 present value: 0	C		sensor: 4 present value: 1	C	sensor: 5 present value	e: 1	C	
		Sensor value	highest detected value: 0 highest detected value: 1 recorded value: 0	Def		highest detected value: 0 highest detected value: 252 recorded value: 0	252 Def	highest detected value: 0 recorded value: 0	Def		
			sensor: 6	G		sensor: 7	G	sensor: 8	a. 0	G	
			lowest detected value: 0 highest detected value: 487	Set		lowest detected value: 0 highest detected value: 5	Set	lowest detec highest detec	ted value: 0 cted value: 0	Set	
			recorded value: 0	Def		recorded value: 0	Def	recorded value	ue: 0	Def	
		Boot software version id			C]					
		Boot software version label	V 000000.00		G						
		Curve	current: 2		C						
	14:13 05 November 2024		no playback								

8) Main menu of the interface. «Settings» tab.

«Player» tab.

/ Light Stream	Ekaterinburg Light Stream office	9	En (Q) Administrator
Player version 0.14.5	Main settings		
Scheduler	Версия плеера:	2	
Cues	FPS	44	
Playlists	Send ArtSync		
∼∘ Triggers	Blackout between events.		
Devices ^			
O ArtNet	Serial interfaces		
O Rdm	port1	• DMX O rs485	
Settings ^	port2	• DMX O rs485	
O Player	port3	• DMX O rs485	
O Location	port4	• DMX O rs485	
O Universes			
Date and time Network			
O Security			
O Users			
O Update			· · · · · · · · · · · · · · · · · · ·
O Maintenance		2:38	0.01
O License	12:0/	Composition005.cue	
O Logs	13 November 2024		

On the Player tab in the Basic settings window it is possible to to specify the frame rate per second of animation playback.

Warning! The FPS parameter will affect the animation itself, the playback of which may be distorted from the concept originally conceived by the designer (creator of the animation), as well as may affect the performance of Player. It is recommended to use the default value of 44.

In the Serial Interfaces window you can switch between DMX and rs485 modes on the device ports.

8.1) «Location» tab.

Light Stream	Ekaterinburg Light Strea	m office 🗣	En
Player			
version 0.14.5	Location		
Scheduler	Name	Ekaterinburg	
E Cues	Address	Light Stream office	
Playlists	Latitude	56.821019190097616	
 ✓ Triggers 	Longitude	60.59559633825783	
Devices ^	Geolocation	Open in Google Maps	
O ArtNet			
O Rdm			
Settings ^			
O Player			
O Location			
O Universes			
O Date and time			
O Network			
O Security			
O Users			
O Update			
O Maintenance	17.74	3.51	10:1
O License	12:24	Composition005.cue	Playlist The first one
O Logs	13 November 2024		

On this tab you can specify the name, address, latitude and longitude of the object.

It is also possible to mark its geolocation using Google Maps, to do this,

click on the button **Open in Google Maps** .

8.2) «Universes» tab.

1	Light Stream	\equiv Ekaterinburg Light Stream office	ce 🛛				En (a) Administrator
	Player			Universes			
	version 0.14.5	1 Device X 2 Dev 0.0.1 port1 0.0.2	evice x 3 Device x on the second seco	4 Device x 0.4 port4 - 0.0.5	Device X Converter *	6 0.0.6 Converter • X 7 Device 0.0.7 Convert	ter 👻
	Scheduler	8 Device X 9 Dev 0.0.8 Converter • 0.0.9	onverter • X 10 Device X Converter • 0.	11 Device x 0.11 asdasd 0.0.12	Device X asdasd 👻	13 asdasd v.0.13	×
•=	Playlists	15 Device x 0.0.15 asdasd - X 0.1.0 asd	svice x sdasd · Add Universe	I		I	
40	Triggers	LI		ArtNet Converters			
	Devices ^	ArtNet Converters				[Add ArtNet converter
0	ArtNet	Name	Network Mode	ip	Port	Description	Actions
0	Rdm	Converter 6-756725	unicast	192.168.0.44	6454	Converter 6-756725	Z 1
\$	Settings ^	Converter 6-767B0A	unicast	192.168.0.27	6454	Converter 6-767B0A	/ 1
0	Player	port1	unicast			Internal port	
0	Location	port2	unicast			Internal port	
0	Universes	port3	unicast			Internal port	
0	Date and time	port4	unicast			Internal port	
0	Network	asdasd	broadcast	2.145.84.33	6454		/ #
0	Users	1 of 7 < >					
0	Update						
0	Maintenance		eio 19				5:00
0	License	12:31 🛛	Composition004.cue			Playlist The first one	
0	Logs	13 November 2024				- me wat one	

Art-Net devices and universes are added on this tab.

To add a device, press the button Add ArtNet converter .

Then in the opened window you should fill in the following fields.

- Name (randomly selected)
- Network Mode broadcast или unicast
- Ip address device network address;
- Port by default 6454
- Description additional description device, e.g. name of the panel in which it is located

New Devic	e	
Name	Network Mode broadcast	ip address
Port 6454	Description	-
		Cancel Save

Next, to save the configuration, press **Save**. The added device will appear in the list below:

ArtNet Devices					Add ArtNet device
Name	Network Mode	ip	Port	Description	Actions
Light Stream Converter001	unicast	192.168.0.100	6454	Light Stream Converter001	Z 11
111	unicast	192.168.0.53	6454		Z II
LS Converter 6	unicast	192.168.0.101	6454	Shield 1	× 11
1 of 3 < >					

Use the buttons 🧪 🧃 to edit the configuration of the added Art-Net device or remove it from the list.



The «Universes» field is used to add universes.

1 0.0.1 ^{Устройство} х Light Strea т	2 0.0.2 ^{Устройство} - х Light Strea х	З 0.0.3 ^{Устройство} х Light Strea ▼	4 Устройство х 0.0.4 Light Strea ▼	5 Устройство x 0.0.5 Light Strea т	6 Устройство x 0.0.6 Light Strea т	7 0.0.7 Цight Strea т
8 0.0.8 Цight Strea т	9 0.0.9 ^{Устройство} х Light Strea т	10 0.0.10 ^{Устройство} х Light Strea т	11 Устройство х 0.0.11 <u>Light Strea</u> ▼	12 Устройство x 0.0.12 Light Strea т	13 0.0.13 ^{Устройство} х Light Strea т	14 0.0.14 Устройство х Light Strea х
15 Устройство х 0.0.15 Light Strea т	16 Устройство x 0.1.0 Light Strea т	17 Устройство x 0.1.1 Light Strea т	18 Устройство X 0.1.2 Light Strea т	19 Устройство x 0.1.3 Light Strea •	20 Устройство x 0.1.4 Light Strea т	21 0.1.5 Устройство х Light Strea х
22 0.1.6 ^{Устройство} х Light Strea т	23 0.1.7 Устройство х Light Strea т	24 0.1.8 ^{Устройство} х Light Strea т	25 0.1.9 ^{Устройство} х Light Strea т	26 0.1.10 Устройство х Light Strea т	27 0.1.11 Устройство х Light Strea х	28 0.1.12 Устройство х Light Strea х
29 0.1.13 Устройство х Light Strea т	30 0.1.14 Устройство х Light Strea т	31 Устройство х 0.1.15 Light Strea т	32 0.2.0 ^{Устройство} х Light Strea ▼	33 Устройство х 0.2.1 Цight Strea ▼	34 0.2.2 ^{Устройство} х Light Strea ▼	35 0.2.3 Устройство х Light Strea х
36 0.2.4 Цідht Strea • Х Устройство	37 0.2.5 ^{Устройство} <u>- х</u> Light Strea х	38 0.2.6 Цідht Strea ▼	39 0.2.7 Цight Strea ▼	40 0.2.8 <u>Устройство</u> х Light Strea т	Добавить Вселенную	

To add a universe, you must click on 🕀 «Add a Universe» and fill out the following form.

Add Universe								
number	ArtNet Device							
25	Light Stream Converter001							
Port address: 0.1.9	111							
	LS Converter 6	Save						

«Number» field indicates the number of the universe (numbering is end-to-end in accordance with the ArtNet v.4 protocol), additionally the number of the universe according to ArtNet v.3 protocol (Net.Subnet.Universe) is shown.

In the "ArtNet Device" field, you select the appropriate device for this universe from the list of entered ArtNet Devices. To save the universe settings, press the button **Save**.

To delete a universe, you must use the button



The configuration of ArtNet devices and universes can be imported from the LightStream animation software. LightStream animation software.

Warning! It is not recommended to change the configuration of devices and universes without the designer's recommendations. is not recommended. This may affect the overall animation playback.

8.3) «Date and time» tab.

/ Light Stream	Ekaterinburg Light Street	eam office 💡		⊕ En @	Administrator
Player version 0.14.5	Time info		/		
Scheduler	Current system time:	13.11.2024 12:52:51			
-	Timezone:	Asia/Yekaterinburg			
- Cues	System time mode:	NTP synchronization			
Playlists	Current NTP server:	ntp0.ntp-servers.net			
Trippers	Time is synced:	Yes			
Thiggers	RTC status:	Ok			
Devices ~					
Settings ^					
O Player					
O Location					
O Universes					
O Date and time					

On this tab there is a field with configuration of date and time settings "Time info".

- Current System Time current date and time;
- Timezone time zone;
- System Time Mode configuration of the system clock (synchronisation via NTP server or manual setting, operation from the built-in RTC real-time clock);
- Current NTP Server current NTP server;
- Time is synced synchronisation status
- **RTC status** operation from the inbuilt real-time clock.

To edit the settings, press the button \swarrow .

Timezone: As	sia/Yekaterinburg	•
🔿 Manual 🖲 N	TP synchronization	
Primary NTP ser Secondary NTP	rver: ntp0.ntp-servers.net	

In the fields that appear, if necessary, select the time zone, enter the addresses of the required NTP servers (primary and secondary), and also set the date and time manually by selecting the "Manual" mode.

Manual O NTP synchronization						
System date:	2023-10-03					
System time:	13:33					

After changing the settings, you should press the button Apply.

Attention! These settings may affect the operation of the Schedule mode.

8.4) «Network» tab.

Light Stream				En Administrator A
version 0.14.5	Ethernet 1	• up ^ Et	thernet 2	• up ~
Scheduler	IP Assignment: Manual IP Address: 192.168.0.204		IP Assignment: Manual IP Address: 2.0.0.5	
Cues	Network Mask: 255.255.255.0 Gateway: 192.168.0.1 Mag Address: Address: 48.264.9614.76	Edit	Network Mask: 255.0.0.0 Gateway: 0010 c0 00 00 00	Edit
Playlists	DNS Assignment: Manual		DNS Assignment: Manual	
✓ Triggers	DNS Servers: 8.8.8.8	Edit	DNS Servers:	Edit
Devices ~				
Settings ^	LTE modem	ăil ^		
O Player	IP Assignment: Automatic(DHCP) IP Address:			
O Location O Universes	Network Mask: Gateway: Mac Address:	Edit		
O Date and time	DNS Assignment: Automatic(DHCP) DNS Servers:	Edit		
O Network	APN: static.ural			
O Users	Username: mts Password: mts	Edit		
O Update	Status: disconnected			
O Maintenance				
O License				×
O Logs	12.45		_ Plavlist	10:00
O Logo	1 J 1 H J 13 November 2024	n005.cue	The first one	2

This tab contains fields with basic settings for the Player network interface.

In the Ethernet window, you can edit network settings both manually and automatically.

Edit network IP settings							
IP Assianment:							
Manual							
Automatic(DHCP)							
Network Mask: 255.255.255.0							
Gateway: 192.168.0.1							
*indicates required field							
	Cancel	Save					

DNS s	ettings	6	
sianment:			
ual			
omatic(DH	CP)		
			_
dary DNS	server:		
dary DNS s required fiel	server:		
dary DNS s required fiel	server:		

The LTE modem window is used optionally (if the user has an LTE modem)

In the LTE modem window you can also edit network settings both manually, or in automatic mode.

In the Change APN settings window, you need to enter the operator data manually.



Changing the network settings on the player.

To set up backup access via modem it is necessary that the sim card issued by the telecom operator has a static «white» address. It is necessary to obtain connection details (apn server, user name and password) from the telecom operator who issued the sim card.

To change the settings, follow the steps below.

On the modem interface card in the APN settings block, click on the **Edit** button.

ΓE modem		511 ^
IP Assignment: IP Address: Network Mask: Gateway: Mac Address:	Automatic(DHCP)	Edit
DNS Assignment: DNS Servers:	Automatic(DHCP)	Edit
APN: Username: Password: Status:	static.ural mts mts disconnected	Edit

The Edit APN settings form opens.

Edit APN settings						
APN: static.ural						
Username:						
mts						
Password:						
mts						
*indicates required field						
	Cancel	Save				

Specify the settings you received from your service provider.

Click the **Save** button.

(Optional) In rare cases it is required to set the ip address manually.

Please check with your service provider. T

o set the ip address, please refer to the corresponding instructions.

Light Stream

8.5) «Security» tab.

/ Light Stream	Ekaterinburg Light Street	am office ♀						🕀 En 🔞 Adr	ministrator
Player									
version 0.14.5	Web Access			1					
Scheduler	HTTP port	Port 80							
Cues	Enable HTTPS								
Playlists									
 ✓ Triggers 	Certificates							Generate	Upload
🕎 Devices 🗸 🗸	# Name	Туре	Subject Si	IN	Issuer	Valid from	Valid to	Actions	
					No data available				
Settings A							Rows per page:	10 👻 -	< >
O Player									
O Location									
O Universes									
 Date and time 									
O Network									
O Security									
O Users									
O Update									
O Maintenance									
U License									*
O Logo	14:20 13 November 2024	4:51 Com	position004.cue				Playlist The first one	2	5:00

This tab is intended for advanced Player customisation and protecting access to the interface by to the interface by encrypting the HTTPS network connection:

HTTPS protocol provides secure and confidential information exchange between the player's web interface and the user's device. the player's web interface and the user's device. Thanks to HTTPS-protocol the data you leave on the website will be securely protected and will not fall into the hands of fraudsters. data you leave on the site will be securely protected and will not fall into the hands of fraudsters.

The «Web Access» field - HTTPS activation, port and certificate selection.

To edit, press 🖌, after the change, press the button Apply .

To enable HTTPS in the Web Access field click 🥒

Tick the **Enable HTTPS** check box.

In the **Certificate** field, select a pre-generated or downloaded SSL certificate. a pre-generated or downloaded SSL certificate.

To redirect and prevent access to the player's web interface via http, tick the **Redirect HTTP to HTTPS** checkbox.

Click the button Apply then refresh the page.

Web Access		1
HTTP port	Port 80	
Enable HTTPS		
HTTPS port	Port 443	
Certificate	Certificate	*
Redirect HTTP to HTTPS		
		Cancel Apply



Creating a self-signed ssl certificate.

A self-signed certificate is a special type of digital certificate signed by its subject. Technically, such a certificate is no different from a certificate signed by a certification centre (CA), except that instead of sending it to the CA for signing, the user creates his own digital signature.

The self-signed certificate is issued for a period of three years.

Select the **Certificates field** - download or create certificates In the **Certificates** block, click the **Generate** button

Certificates U								Jpload		
#	Name	Туре	Subject	SAN	Issuer	Valid from	Valid to		Actions	
				No dat	a available					
							Rows per page:	10 💌		< >

In the opened form **Certificate Request** form it is necessary to fill in the **Name** field and putmarker in the Certificate type section to the value **Self-sign**. Fields **Common name** and **Subject alternative name** will be filled in automatically. The rest of the fields are filled in as desired.

Click the form button Save .

The newly created certificate should appear in the list of certificates, which canbe used later for configuration https protocol

oer medie Kequest	
Name	?
Certificate type: OSelf-sign OCSR	•
Common name	?
Subject Alternative Name (optional)	?
Organization (optional)	?
Organization Unit (optional)	?
Country (optional)	?
State/Province (optional)	?
Local address (optional)	?
Cancel S	ave

Cartificata Paquast

Downloading a certificate from an external certificate authority (optional).

An SSL certificate is a digital certificate that authenticates a website and allows you to use an encrypted connection. SSL stands for Secure Sockets Layer, a security protocol that creates an encrypted connection between a web server and a web browser. SSL stands for Secure Sockets Layer, a security protocol that creates an encrypted connection between a web server and a web server and a web browser.

The certificate and private key files must be in pem format. The private key file must not be password protected.

«Certificates» field - downloading or creating certificates. To download the ssl certificate, click on the button **Upload** after which a window for downloading certificates will open.

Certificates								erate	Uplo	ad	
#	Name	Туре	Subject	SAN	Issuer	Valid from	Valid to		Actior	15	
				No dat	a available						
							Rows per page:	10 💌	-	<	>

Select New Certificate.

Fill in the **Name** field. The name of the certificate must be unique and not used by previously downloaded or generated certificates.

Click the **O** Certificate File field and select the ssl certificate file.

Click the **Private Key** File field and select the private key file.

Upload Certificate

۲	New certificate O Certificate correspon	ding cs	r
Nar	ne		0
Û	Certificate file		?
Q	Private Key File		0
U	Intermediate or chain certificate file (option	nal)	?
	с	ancel	Save

Click the form button Save

A newly downloaded certificate should appear in the certificate list, which can be used later to configure the https protocol.

8.6) «Users» tab.

	Light Stream	≡ Ekaterinburg Light Str	ream office 💡			H En	Admini	istrator
	Player version 0.14.5	Users					Create	User
iiii	Scheduler	Username		Privilege Groups		Actions		
-		administrator		administrators, operators, monitoring		Z II.		
E	Cues	(2) test		monitoring		Z #		
►	Playlists				Rows per page:	10 👻 1	-2 of 2 <	>
40	Triggers							
	Devices ~							
۵	Settings ^							
C) Player							
С) Location							
С) Universes							
C	Date and time							
C) Network							
) Security							
C) Update							
C	Maintenance							
С) License							×
С) Logs		1:49					5:00
C) Logo	1 5:44 13 November 2024	Composi	ition004.cue	Playlist Second			

There are 3 groups of Player user privileges:

- Administrator user who has access to all Player settings.
- **Operator** user, who has the ability to work with animations, create playlists and scripts, change the Player operation mode (Schedule / Manual control). Access to the settings is closed.
- Monitoring user with monitoring capabilities. All settings, including working animations are closed.

In this tab you can create a user with the possibility to change its access details. This tab allows you to create a user with the possibility to change its access details.

To create a user, press the button **Create User**. In the opened window it is necessary to enter the user name in the "Name" column, in the "Privilege groups" submenu select the user type, then enter the password in the "Password" column and confirm it in the "Confirmation" column. and confirm it in the "Confirm password" column.

After entering the data it is necessary to press the button **Create**.

The user will be displayed in the general list.

User details can be changed by clicking on \checkmark . You can remove a user from the list by clicking on **•**.

Crea	te user		
Userna	me		
Privileae	Groups		
	administrators		
	operators		
	monitoring		
Confirm	n password		
		Cancel	Create

8.7) «Update» tab.

Light S	tream	■ Ekaterinburg Light Stream	m office ♀				⊕ En (ⓐ Administrator
Player							
version 0.14.5				Upo	dates		
Scheduler		Update list					Upload
- Cues		Name	Version \downarrow	Status	Description	Actions	
Playlists		Imp_000014005.update	0.14.5	installed		Rollback Delete	
∢∘ Triggers							
Devices	~						
🛱 Settinos	^						
•							
O Player							
O Location							
O Universes							
O Date and til	ne						
O security							
O Maintenand	e						
O License							
O Logs			642				*
O Logo		16:08 13 November 2024	Composition00	05.cue		Playlist The first one	2

This tab window allows you to update the Player software.

To do this, press the Upload button, after which a window for downloading the received update will open.

Upload an update file		
0		
	Cancel	Upload

After that the update file will appear in the list. To check the downloaded updates, click the "Check" button, After checking, the "Install" button will appear, after clicking on it the installation will start. It will take a few minutes, after which Player will reboot. The installed update can be rolled back with the "Rollback" button and uninstalled with the "Delete" button.

8.8) «Maintenance» tab.

	Light Stream	■ Ekaterinburg Light Stream office ♥	🕀 En 🔞 Administrator
1	Player		
	version 0.14.5	Backup	
	Scheduler	Will save the configuration to the file.	
E	Cues	The following settings will no to assvod: • Playlists • Scheduler Events • ArtNet devices • Cher datatine settings	
Þ	Playlists	Universes User settings Loadon	
40	Triggers	• Timozono • Triggers	
	Devices ~	Create Backup	
¢	Settings ^		
C	Player	Restore	
C	Location	Will overwrite the configuration.	
C	Universes	All present data will be replaced by the imported data Before continuing, create a backup to go back to this configuration.	
C	Date and time	NOTICE:	
C	Network	- The device will restart automatically after the backup file has been restored.	
C	Security	Restore	
C	Users		
C	Update	Debug info	
C	Maintenance	Collect debug data for support cases	
C	License	constructional and applied construction	
C	Logs	Collect	
C	Logo		
		Power control	
		Reboot device: Reboot	
			×
		16:25 I3 November 2024 Dis Composition004.cue	D Playfick Second

Player has the ability to create and upload configuration backups

To create and load a configuration file, press button **Create Backup**, after that you will be offered to save the file with * .backup extension.

If you need to restore the Player configuration, you need to press the button **Restore** then select the previously created configuration file. After loading Player will restart.

In the **Debug info** window you can collect debugging data for calls to the support team. To do this, press **Collect**.

In the **Power control** window, you can reboot the device.

To do this, press **Reboot**.

8.9) «License» tab.

Light Stream	■ Ekaterinburg Light Street	am office 💡		En @ Administrator
Player				
version 0.14.5	License info			
Scheduler	Client:	test_client		
- Cues	Number of universes allowed:	256		
•	Expire date:	October 4, 2025		
Playlists			Upload new license	
≁ ₀ Triggers				
Devices V				
Settings ^				
O Player				
O Location				
O Universes				
O Date and time				
O Network				
O Security				
O Users				
O Update				
O Maintenance				
O License				*
O Logo	16:40	Composition004.cue		Second Second Second
	13 November 2024			

The window of this tab provides information about the current licence.

It is also possible to upload a new licence file if necessary.

To do this, press the button **Upload new license**, after which a window will open with a choice of licence file with *.lic extension.

Upload a new license file	9	
0		
	Cancel	Upload

8.10) «Logs» tab.

/ Light Stream	= Ekaterinburg Light Stream office 9	🕀 En 🔘 Administrator
Player		
version 0.14.5	service log	
Scheduler	[2025.09.16 22:30:34] E An Http Error occurred: 404 Client Error: Not Found for url: http+unix://%2Frun%2Fgunicorn.sock/api/cue/3/	
	[2025.09.16 22:30:34] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 3 not found.	
Cues	[2025.09.16 22:30:36] E An Http Error occurred: 404 Client Error: Not Found for url: http+unix://%2Fun%2Fgunicorn.sock/api/cue/3/	
_	[2025.09.16 22:30:36] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 3 not found.	
Playlists	[2025.09.16 22:30:36] E An Http Error occurred: 404 Client Error: Not Found for url: http+unix://%2Fun%2Fgunicorn.sock/api/cue/3/	
✓• Triagers	[2025.09.16 22:30:36] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 3 not found.	
	[2025.09.16 22:30:36] E An Http Error occurred: 404 Client Error: Not Found for url: http+unlix://%2Fun%2Fgunicorn.sock/api/cue/3/	
💻 Devices 🗸 🗸	[2025.09.16 22:30:36] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 3 not found.	
	[2025.09.16 22:30:36] E An Http Error occurred: 404 Client Error: Not Found for url: http+unix://%2Frun%2Fgunicorn.sock/api/cue/3/	
Settings ^	[2025.09.16 22:30:36] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 3 not found.	
O Player	[2024.11.12 08:34:31] E An Http Error occurred: 404 Client Error: Not Found for url: http+unix://%2Frun%2Fgunicorn.sock/ap//cue/4/	
O Location	[2024.11.12 08:34:31] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 4 not found.	
	[2024.11.12 08:34:32] E An Http Error occurred: 404 Client Error: Not Found for url: http+unix://%2Frun%2Fgunicorn.sock/api/cue/4/	
O Universes	[2024.11.12 08:34:32] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 4 not found.	
 Date and time 	[2024.11.12 08:34:33] E An Http Error occurred: 404 Client Error: Not Found for url: http+unix://%2Frun%2Fgunicorn.sock/api/cue/4/	
O Network	[2024.11.12 08:34:33] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 4 not found.	
O Security	[2024.11.12 08:34:33] E An Http Error occurred: 404 Client Error: Not Found for url: http+unix://%2Frun%2Fgunicorn.sock/api/cue/4/	
O Users	[2024.11.12 08:34:33] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 4 not found.	
O Update	[2024.11.12 08:34:41] E An Http Error occurred: 404 Client Error: Not Found for ur: http+unix://%2Frun%2Fgunicorn.sock/ap//cue/4/	
O Maintenance	[2024.11.12 08:34:41] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 4 not found.	
	[2024.11.12 08:34:41] E An Http Error occurred: 404 Client Error: Not Found for url: http+unix://%2Frun%2Fgunicorn.sock/api/cue/4/	
Cilcense	[2024.11.12 08:34:41] W Play command from PlayingPriority.MANUAL ignored. The Playlist with id 4 not found.	*
O Logo	16:42 IS November 2024 Data Composition004.cue	5:00

The logged events are shown in the window of this tab.

8.11) «logo» tab.

Light Stream	Ekaterinburg Light Str	eam office 💡		⊕ En @ Administrator
Player				
version 0.14.5	Logo			
Scheduler	Name	Player.svg		
Cues				
Playlists			Upload	
∢₀ Triggers				
Devices				
Settings ^				
O Player				
O Location				
O Universes				
 Date and time 				
O Network				
O Lisers				
O Update				
O Maintenance				
O License				*
O Logs		4:03		5:00
O Logo	16:46	Composition004.cue		Playlist Second
	13 November 2024			

On this tab the user can change the logo, located in the upper left corner to any other logo.



To do this, press the button **Upload** and in the opened window select the required logo in SVG format.

Upload Logo file		
0		
*Only svg files are supported.		
	Cancel	Upload



9) Configuring the GSM module.



To set up remote access via GSM module, it is necessary that the sim card, issued by the telecom operator has a static 'white' address. It is necessary to obtain connection details (apn server, user name and password) from the telecom operator that issued the sim card. Having obtained these settings we proceed to further steps.

Setting up the access point (APN)

To change the settings, follow the steps below

- 1. Log in to the player's web interface using an account with administrator privileges.
- 2. From the side menu, select [Settings] -> [Network].
- **3.** On the modem interface card in the APN settings block, click the button **Edit.** The form will open **Edit APN settings.**

^{APN:} realip.ural	5	
Username: mts		
Password: mts		
*indicates required field		
	Cancel	Save

- 4. Specify the settings received from the service provider.
- 5. Press the button Save.
- **6.** (Optional) In rare cases it is required to set the ip address manually. This can be checked with your service provider.

To set the ip address, please use the corresponding instructions in the «Changing the network settings on the player» section of this manual.



When using a white IP address, and therefore access from the Internet, we strongly recommend using an SSL certificate for security reasons. and enable HTTPS protocol. (How to do this is described below)

Creating a self-signed ssl certificate

A self-signed certificate is a special type of digital certificate signed by its subject. Technically, such a certificate is no different from a certificate signed by a certification centre (CA), except that instead of sending it to the CA for signing, the user creates his own digital signature.

The self-signed certificate is issued for a period of three years.

Steps to create a self-signed certificate.

1. Log in to the player's web interface using an account with administrator privileges.

2. From the side menu, select [Settings] -> [Security].

3. In the block Certificates click on the button Generate.

Certi	ficates						Generate	Upload
#	Name	Туре	Subject	SAN	Issuer	Valid from	Valid to	Actions

- 4. In the opened form Certificate Request form it is necessary to fill in the Name field and putmarker in the Certificate type section to the value Self-sign. Fields Common name and Subject alternative name will be filled in automatically. The rest of the fields are filled in as desired.
- 5. Click the form button Save .
- 6. The newly created certificate should appear in the list of certificates, which canbe used later for configuration https protocol

Certificate Request	
Name	?
Certificate type: Self-sign CSR	
Common name	?
Subject Alternative Name (optional)	?
Organization (optional)	?
Organization Unit (optional)	?
Country (optional)	?
State/Province (optional)	?
Local address (optional)	?
Cancel	Save

Downloading a certificate from an external certification authority

An SSL certificate is a digital certificate that authenticates a website and allows you to use an encrypted connection. SSL stands for Secure Sockets Layer, a security protocol that creates an encrypted connection between a web server and a web browser. SSL stands for Secure Sockets Layer, a security protocol that creates an encrypted connection between a web server and a web server and a web browser.



Steps to download an ssl certificate

- 1. Log in to the player's web interface using an account with administrator privileges.
- 2. From the side menu, select [Settings] -> [Security].

3. In the block Certificates click on the button Upload which will open form Upload Certificate.

Certi	ficates						Generate	Upload
#	Name	Туре	Subject	SAN	Issuer	Valid from	Valid to	Actions

- **4.** Fill in the **Name** field. The name of the certificate must be unique and not used by previously downloaded or generated certificates.
- 5. Click on the field

Certificate file

and select the ssl certificate file.

- **6.** Click on the field **Private Key File** and select the private key file.
- 7. Click the **Save** form button.
- In the list of certificates you should see a newly downloaded certificate that can be used later to https protocol configuration.

Upload Certificate	
New certificate Certificate correspon	ding csr
Name	?
Ortificate file	0
Private Key File	0
Intermediate or chain certificate file (option	nal) 🕐
Са	ncel Save



Enabling HTTPS

HTTPS protocol provides secure and confidential information exchange between the player's web interface and the user's device. the player's web interface and the user's device. Thanks to HTTPS-protocol the data you leave on the website will be securely protected and will not fall into the hands of fraudsters. data you leave on the site will be securely protected and will not fall into the hands of fraudsters.

Steps to activate HTTPS

- 1. Log in to the player's web interface using an account with administrator privileges.
- 2. From the side menu [Settings] -> [Security].
- 3. In the **Web Access block** click on the edit icon.

Web Access		\rightarrow
HTTP port	Port 80	
Enable HTTPS		

4. Tick the box Enable HTTPS.

Web Access		1
HTTP port	Port 80	
Enable HTTPS	Port 443	
Certificate	Certificate	-
Redirect HTTP to HTTPS		
	Cancel Ap	oply

5. In the **Certifikate field** select a pre-generated or downloaded SSL certificate.

Web Access		/
HTTP port	Port 80	_
Enable HTTPS		
HTTPS port	Port 443	
Certificate	Certificate	,
Redirect HTTP to HTTPS		
	Cancel Ap	ply

6. To redirect and prevent access to the player's web interface via http, tick the Redirect HTTP to HTTPS.

Web Access		1
HTTP port	Port 80	
Enable HTTPS		
HTTPS port	Port 443	_
Certificate	Certificate	•
Redirect HTTP to HTTPS		
	Cancel A	pply

7. Click **Apply** then refresh the page.

Changing the network settings on the player

The network interface settings are divided into two parts:

- ip addressing settings
- DNS server settings

To change the settings, follow the steps below

- 1. Log in to the player's web interface using an account with administrator privileges.
- 2. From the side menu, select [Settings] -> [Network].
- **3.** On the card of the interface to which you want to change the settings in the block ip addressing click on the **Edit** button.

The Edit network IP settings form opens.

Edit network IP se	ettings	
IP Assignment: Manual		•
IP Address: 192.168.0.205		
Network Mask: 255.255.255.0		
Gateway: 192.168.0.1		
*indicates required field		
	Cancel	Save

4. In the **IP Assignment** field select the method of ip addressing assignment. Addressing settings can be set manually or received via DHCP.

If you choose DHCP, go directly to point 6.

- 5. Fill in the IP Address, Network Mask and Gateway fields
- 6. Press the Save button.
- 7. (Optional) If you selected the manual method of setting the settings, on the interface card to which you have changed addressing in the DNS block, click the **Edit** button.

The Edit DNS settings form will open.

Edit DNS settings	i	
DNS Assignment: Manual		•
Primary DNS server: 8.8.8.8		
Secondary DNS server:		
*indicates required field		
	Cancel	Save

- 8. In the DNS Assignment field, select manual.
- **9.** Specify current dns servers.

GSM module configuration is complete.