

Stream Online

Stream Online - it's a service that allows client to create and manage the TV channel broadcast or separate events on the website and social media.



COSMONOVA
broadcast





OUR MISSION

Empowering media businesses through comprehensive high-tech solutions that ensure the global and uninterrupted delivery of high-quality content.

OUR CLIENTS



Who We Are Now

- **Developing the Global Media Landscape:** Supporting the growth of the Ukrainian media market and national economy, we have partnered with over 300 TV channels and 800 providers worldwide. We have opened new opportunities for global media business development and continue to expand our international partnerships.
- **Security Without Compromise:** With security as a top priority, our infrastructure is strategically located in Ukraine and four locations across the EU, ensuring uninterrupted operations under any conditions and safeguarding our clients' content and broadcasts.
- **Proven Expertise:** With the team's years of experience in media and telecommunications, Cosmonova Broadcast has built a reputation as a trusted service provider.
- **Innovative Solutions:** We offer a unique suite of solutions that are continuously improved to meet the needs of the media industry.
- **Reliable Service:** Our 24/7 monitoring and technical support ensure clients can always rely on us.



Our Advantages

- **Continuous Improvement:** The functionality and tools of our services are constantly optimized and scaled through the integration of innovations.
- **In-House Engineering and Development Team:** Our R&D team, with years of expertise, ensures the technical implementation of the most ambitious media projects, guaranteeing reliability and quality at every stage.
- **Convenience and Simplicity:** Automated services with intuitive interfaces provide centralized management of all media resources from any internet-connected location, eliminating the need for additional specialists. Basic functionality is available through mobile applications.
- **Flexibility and Scalability:** The architecture of our hardware and software solutions allows us to create a personalized system for each client, with functionality and tools tailored to their specific needs.
- **Targeted Investment:** Unlike traditional models, we offer a flexible SaaS format where fees are based on actual functionality usage. Dynamic pricing adjusts subscription costs according to the current usage volume.

High-Tech Services



IP DELIVERY

Terrestrial delivery of the television signal to TV channels, operators and providers.

Transmission is carried out using UDP, HTTP, SRT and other protocols with transcoding into several popular formats (HD, SD, MPEG4, MPEG2)



COSMO|PLAYOUT

A cloud solution that allows clients to deploy and launch a TV channel quickly and without capital investment, to fill the TV airwaves with pre-created content and live streams using visual effects and animation.



STREAM ONLINE

A technical solution for live streaming on websites or social media, such as YouTube and Facebook, with transcoding and CDN for high and very high loads for mass events.



VIRTUAL MATRIX

A hardware and software solution that enables a client to connect separate TV channels or rights holders into a unified network, allowing for the exchange of TV signals within their own network and with other participants in the virtual matrix. At the same time, both sides can control access, test the signal, and set the time for signal receiving and broadcasting.



VOD PORTAL

A service that provides the ability to fill your own platform with content for its repeated display and monetization.



WEBREC

The system of automatic recording and content storage through regular backups.



Stream Online

Stream online is a high-load streaming solution for delivering live video to websites, social media platforms (such as YouTube or Facebook). The platform uses CDN-based transcoding and distribution to ensure seamless playback during mass-viewer events with real-time monitoring.



Key Features:

- Captures and transcodes TV signals for multi-platform delivery
- Video quality control through an intuitive interface
- Cross-platform compatibility: works across all major browsers and operating systems
- Viewer authentication and access control
- Ready-made VoD platform for monetization, content archiving, and replay of previous broadcasts

Stream Online can be used by



TV CHANNELS new ones, or those who want to expand their capabilities



MEDIUM BUSINESS filling screens with internal communication content, advertising, formation of continuous stream



CORPORATES & HOLDINGS content distribution systems for staff training or advertising



STUDIOS in order to deliver the content to distribution sources

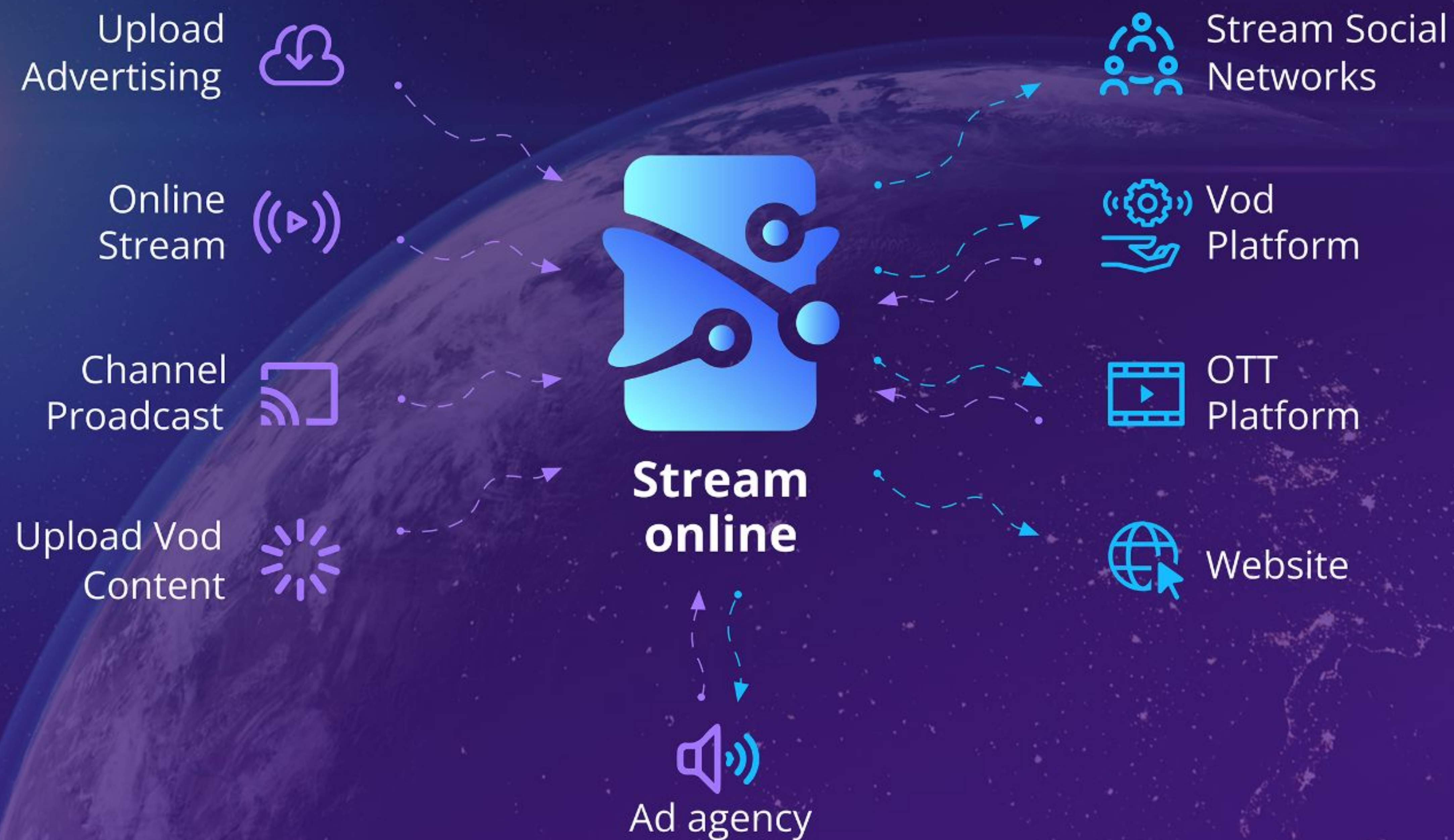


EVENT-AGENCIES that use digital networks for broadcasting



HORECA - television for hotels and restaurants

Working scheme



Stream Online benefits



Advertising
monetization



Comprehensive
coverage of required
audience



No equipment
costs



Transcoding and
streaming in multiple
qualities



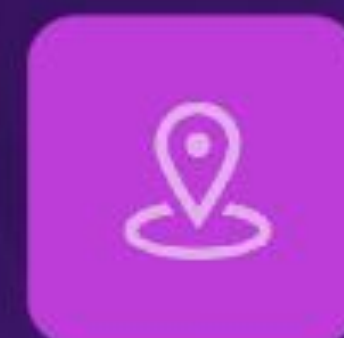
User
authorization



A team of engineers
supports events with
wide coverage



TV channel broadcast
integration into websites
and social media



Security protection and
encryption of video
stream broadcast



Audience
geolocation settings



A high-load system with
the possibility of automatic
management of servers in
manual mode



Statistics in the form of
dashboards (number
of users, load statistics)



The player is supported
by all popular browsers
and operating systems



The stability of
broadcasting is
confirmed by extensive
experience

Stream Online functionality

- ✓ **Media Player Code for placement on the website (API, dynamic video quality control, access control, etc.)**
- ✓ **Integration with client applications**
- ✓ **Signal Transcoding**
- ✓ **Advertising Module**
- ✓ **User registration and authentication**
- ✓ **CDN**
- ✓ **Broadcasts in social media (Facebook, YouTube and others)**
- ✓ **High-load and High-ability System**



Storage Stream Online

- ✓ Files downloading
- ✓ Preview
- ✓ File tags

Stream Online

Media files

Total: 673

Filters

Type	Title	Preview	Upload Date	State	Duration	Size	
🎬	TRAUMRRL19.mp4	▶	24/03/2023 19:05	Completed	19	13.3 Mb	🗑
🎬	TRAUMRRL19.mp4	▶	23/03/2023 19:05	Completed	19	13.3 Mb	🗑
🎬	SHINYDISK117.mp4	▶	23/03/2023 11:22	Completed	17	10.7 Mb	🗑
🎬	EUROROLL12.mp4	▶	21/03/2023 11:30	Completed	12	5.9 Mb	🗑
🎬	EURODIARY12.mp4	▶	21/03/2023 11:29	Completed	12	6.1 Mb	🗑
🎬	wrldwomenmasstart19-03-2023.mp4	▶	19/03/2023 18:42	Completed	5326	2233 Mb	🗑
🎬	wrldmenmasstart19-03-2023.mp4	▶	19/03/2023 16:20	Completed	5232	2195.4 Mb	🗑
🖼	logo footsal.png		19/03/2023 15:23	Completed		18 Kb	🗑
🎬	wrldwomensprint18-03-2023.mp4	▶	18/03/2023 18:59	Completed	6649	2790.1 Mb	🗑

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CDN Stream Online

- ✓ Location in Europe or in other countries of the world
- ✓ High load system for broadcasting to hundreds of thousands of viewers
- ✓ Broadcast stability confirmed by extensive experience
- ✓ Servers management
- ✓ Possibility of authorization
- ✓ Geoblocking

Stream Online

Dashboard

Online players

VOD players

Custom broadcasts

AD modules

AD report

Media files

Streamers

Stream publishing

Transcoders

Visitors

Monitoring

Online players

Total: 30

Filters

Title	Current event	Stream	AD module AD status	Geo ban	Black IP	Images Viewer ban	Req. login	Opt. login	
NSTU Eurovision		NSTU-Eurovision							
UA1	LIVE	UAPershiy	UA1-promo Active						
CAM1		Olympic-Cam1	U21 Active						
CAM2		Olympic-Cam2	AD Cam 2 Inactive						
CAM3		Olympic-Cam3							
CAM4		Olympic-Cam4							
UA-Culture	UA-Culture	UA-Culture	Culture-promo Active						
nstu-kyiv	nstu-kyiv	nstu-kyiv	Regions-promo Active						
nstu-vol	nstu-vol	nstu-vol	Regions-promo Active						



VOD Stream Online

- ✓ Vault
- ✓ Broadcast scheduling

VOD players									
Total: 1									
Filters ▾									
Title	Stream	AD module AD status	Geo ban	Black IP	Viewer ban	Images			
						Req. login	Opt. login	Poster	Backpad
NSTU-VOD	Olympic-VOD	Biathlon2023 Inactive							

Custom Broadcast

- ✓ RTMP broadcasts
- ✓ Broadcasts in social networks (Facebook, YouTube and others)

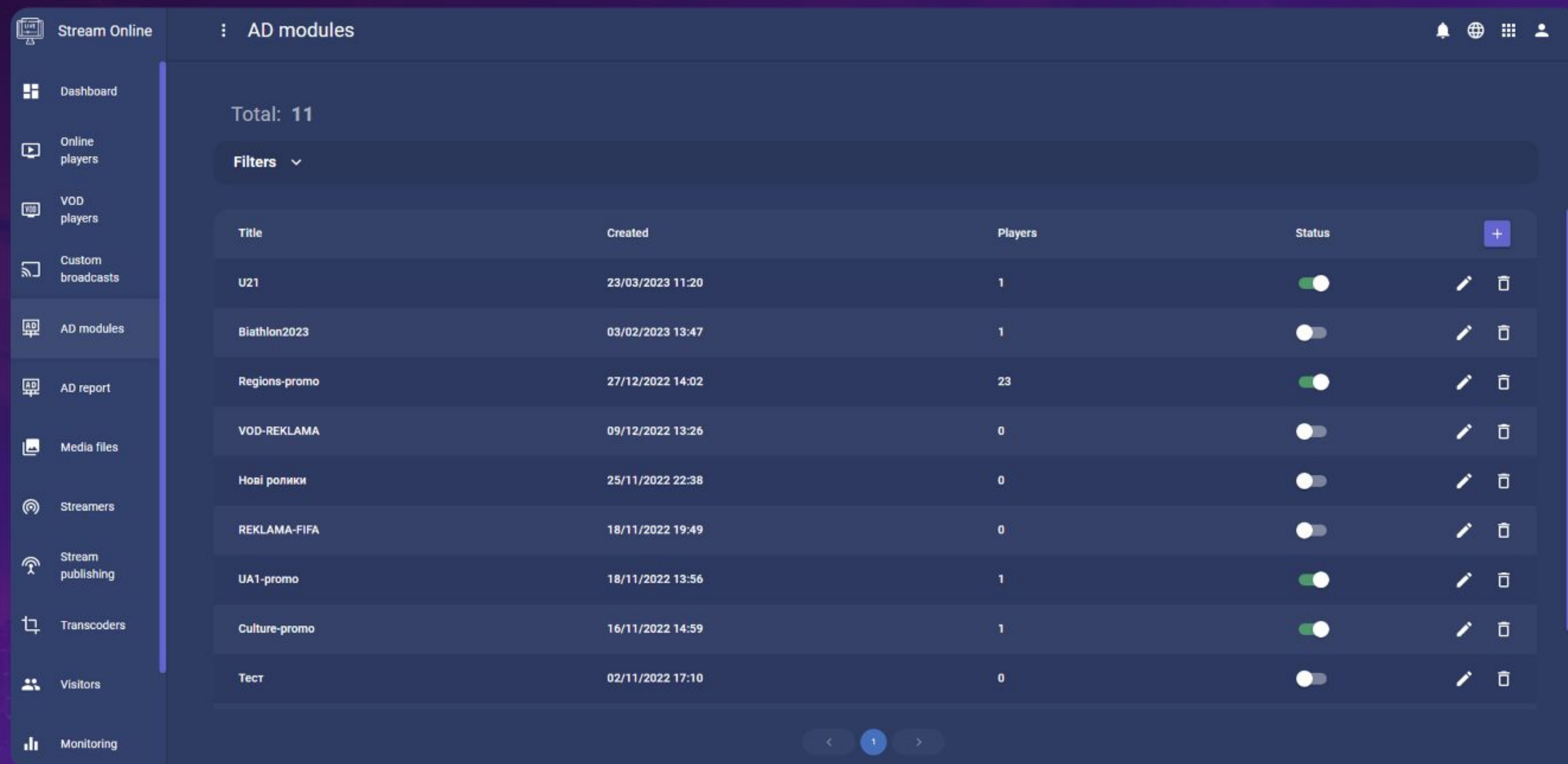
The screenshot shows the 'Custom broadcasts' section of the Cosmonova Broadcast dashboard. The left sidebar contains navigation links: Stream Online, Dashboard, Online players, VOD players, Custom broadcasts (selected), AD modules, AD report, Media files, Streamers, Stream publishing, Transcoders, Visitors, and Monitoring. The main content area displays two broadcast configurations: 'UA-Culture' and 'Cam1'. Each configuration has a table of broadcast details.

UA-Culture					
Type	Title	Url	Created	Status	
R	World	rtmp://56.56.5.568/live/suspilne	06/01/2023 22:06	On	✎ 🗑
R	UA	rtmp://568.5.5.5/live/suspilne	06/01/2023 21:14	On	✎ 🗑

Cam1					
Type	Title	Url	Created	Status	
R	Sport	rtmp://56.36.884/digital/sport	11/12/2022 15:53	Off	✎ 🗑

Advertising module

- ✓ pre-roll, mid-roll and post-roll
- ✓ Individual display rules
- ✓ Display statistics
- ✓ Integration with advertising agencies



Stream Online

AD modules

Total: 11

Filters

Title	Created	Players	Status	
U21	23/03/2023 11:20	1	☒	
Biathlon2023	03/02/2023 13:47	1	☐	
Regions-promo	27/12/2022 14:02	23	☒	
VOD-REKLAMA	09/12/2022 13:26	0	☐	
Нові ролики	25/11/2022 22:38	0	☐	
REKLAMA-FIFA	18/11/2022 19:49	0	☐	
UA1-promo	18/11/2022 13:56	1	☒	
Culture-promo	16/11/2022 14:59	1	☒	
Тест	02/11/2022 17:10	0	☐	

Dashboard
Online players
VOD players
Custom broadcasts
AD modules
AD report
Media files
Streamers
Stream publishing
Transcoders
Visitors
Monitoring

Transcoding

- ✓ Signal Transcoding for Custom Broadcast
- ✓ Transcoding for VOD
- ✓ Transcoding for CDN

Stream Online

Transcoders

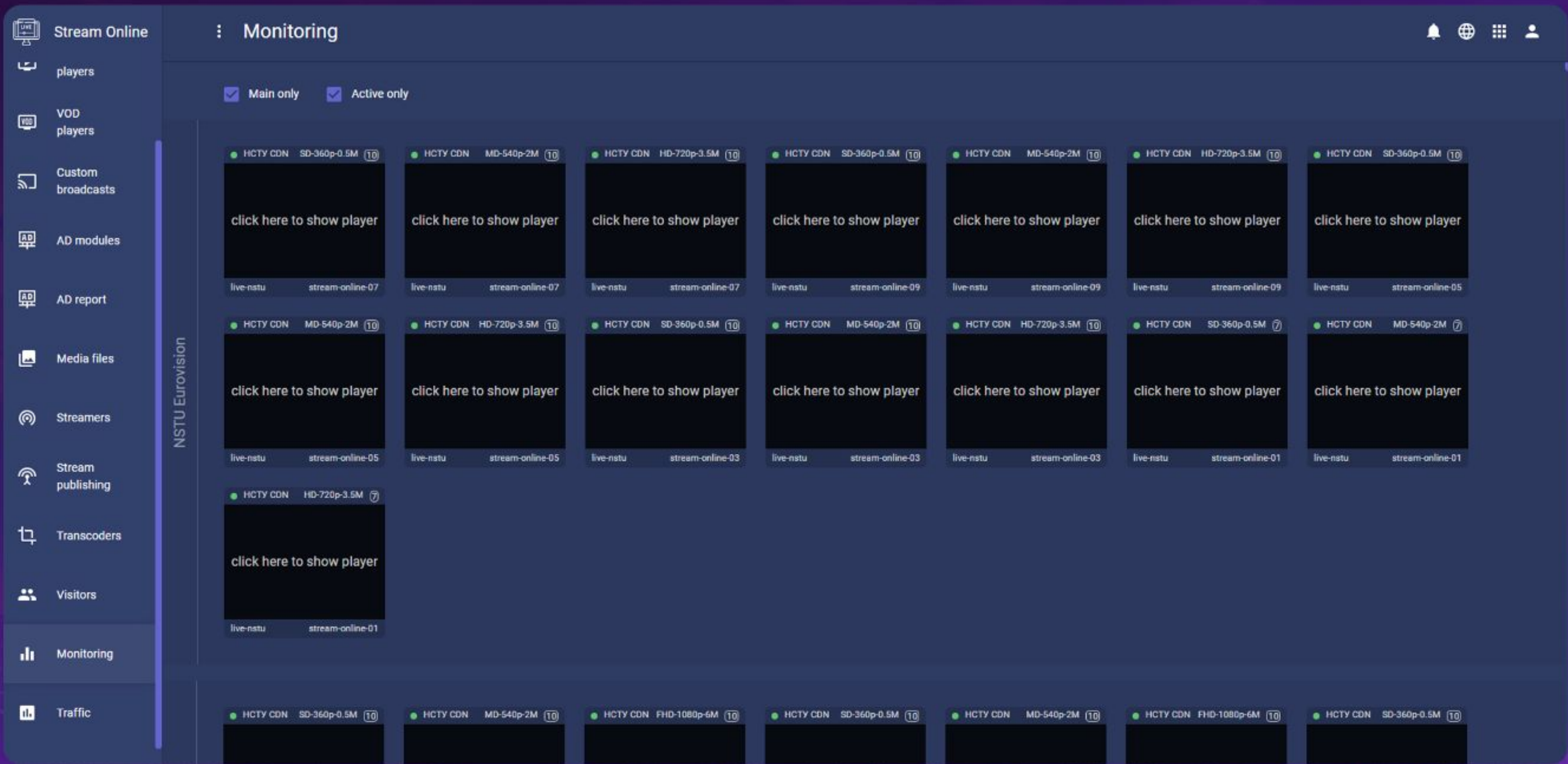
Total: 38

Filters

Title	Source type	Languages	Quality	Logo	Status	
NSTU-Cam1-CustomBroadcast-Coder	multicast	0	FHD-1080P-6M		Active	
NSTU-Easter	multicast	0	FHD-1080P-6M		Inactive	
NSTU-Eurovision-main	multicast	0	HD-720P-3.5M MD-540P-2M SD-360P-0.5M		Active	
NSTU-UA-Culture-main	multicast	0	HD-720P-3.5M MD-540P-2M SD-360P-0.5M		Active	
NSTU-VOD-Transcoder	hls	0	ORIG-WITHOUT-TRANSCODE		Active	
Olympic-Cam1-StreamOnline-main	multicast	1	FHD-1080P-6M MD-540P-2M SD-360P-0.5M		Active	
Olympic-Cam1-StreamOnline-reserve	multicast	1	FHD-1080P-6M MD-540P-2M SD-360P-0.5M		Active	
Olympic-Cam2-StreamOnline-main	multicast	1	FHD-1080P-6M MD-540P-2M SD-360P-0.5M		Active	
Olympic-Cam3-StreamOnline-main	multicast	1	FHD-1080P-6M MD-540P-2M SD-360P-0.5M		Active	

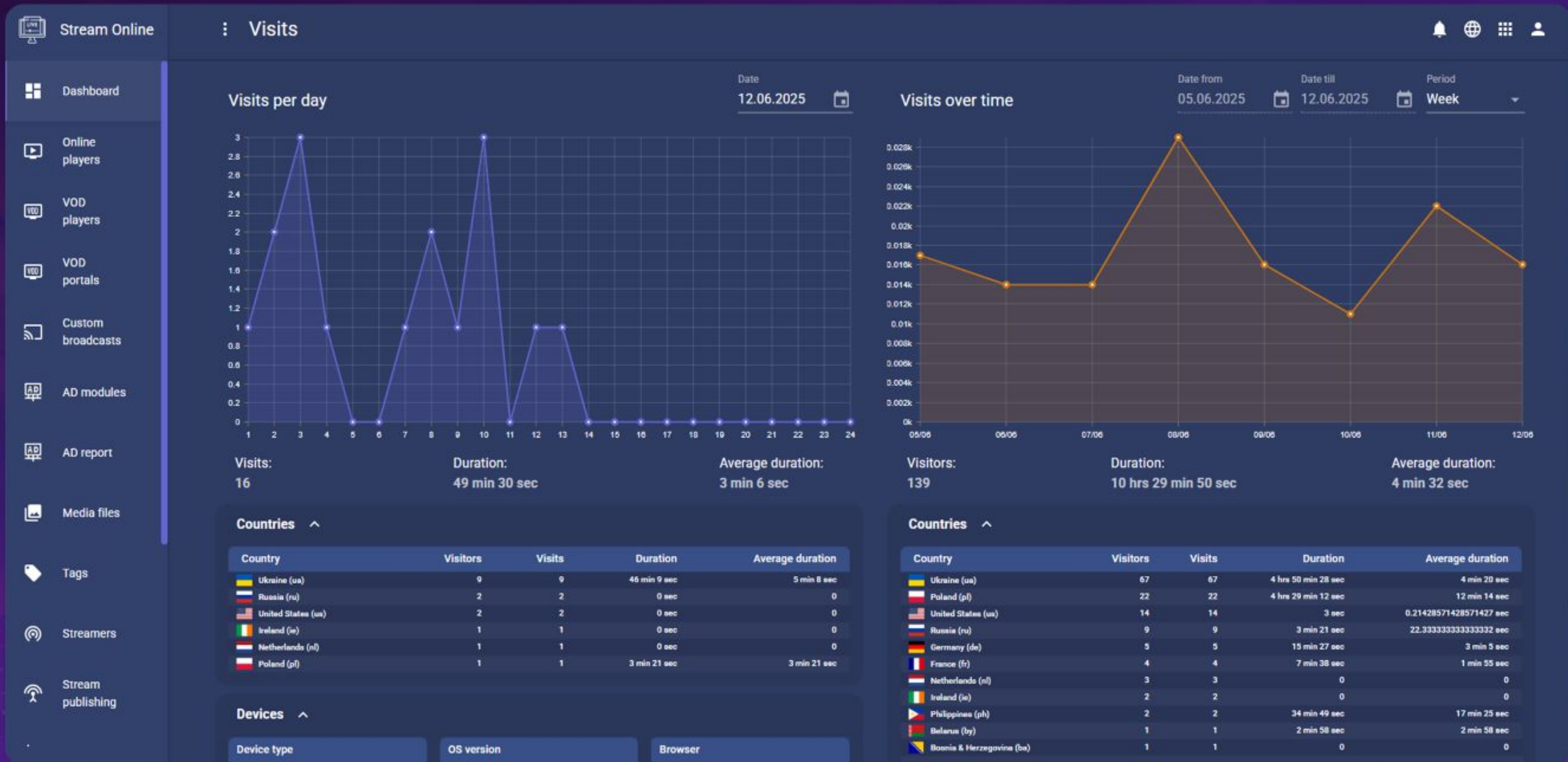
Monitoring

✓ Monitoring of the players work



Statistics

- ✓ Traffic statistics
- ✓ View statistics



Congratulations!

This is a final page!

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