

Flussonic Media Server

A multi-format and multi-protocol transcoder, packager, and origin server with a consistent, high density channel count independent of input or output encoding formats and protocols.

● FEATURES

- **SRT, RTMP, RTSP, HLS, Low Latency HLS, HDS, HTTP MPEG-TS, MPEG-DASH, and WebRTC** streaming protocols.
- High-performance graphics core.
- **H.264, H.265, AV1**, MPEG-2 Video, AAC, MP3, VP6, Speex, and G711 a/u codecs for ingress and egress.
- Flussonic can form a cluster with **unlimited number of ingest, origin, and streaming servers.**
- **Smart routing** of video streams between servers in cluster.
- **Multiple redundancy options** based on Flussonic Cluster mechanism, including **N+1, N+M, Source Stream Failover**, and many others.
- **3000+ simultaneous connections** per single Edge server.
- **Efficient video archive** that can store years of uninterrupted video recordings.
- **Live Video** archives and **VOD** content can be stored on local disk drives, CEPH, NFS, or in S3/Swift clouds.
- **Instant access** to live video feed and to archived recordings.
- **Advanced monitoring system** that controls system load and performance.
- **Support for all major DRM** systems and Cloud Multi-DRM providers.
- Full support for **DVB-Subtitles and Closed Captions.**
- **User-friendly** Web-UI.
- **Rich and well-defined API** for programmatically controlling and managing all functions of the Media Server.

● TECHNICAL SPECIFICATIONS

Protocols and formats support

MPEG TS Ingest	SPTS, MPTS, Data PID Passthrough
MPEG TS Monitoring	TR101290
MPEG TS electronic program guide	EPG EIT
MPEG TS advertising	SCTE35
MPEG TS constant bitrate output	PCR accurate CBR NULL Pid Stuffing
Video resolutions	From 188i to 2160p (4k)
Frame rates	From 1 to 120 FPS
Streaming protocols	RTSP, RTMP, HLS, MPEG-DASH, Microsoft Smooth Streaming, WebRTC, MSE-LD, M4S, M4F
WebRTC models	Playback and publish streams over UDP and TCP transports
MPEG DASH features	Gap handling, CDN-Compatible playout, Subtitles, and Closed Captions support
VoD delivery	MP4, MKV
DRM support	DASH Widevine, HLS Fairplay, MSS Playready, Plain AES-128, Plain CAS (tokens)
Supported cloud DRM vendors	Conax DRM, BuyDRM (KeyOS), PallyCon, EzDRM

Video archive support

Archive access protocols	HLS, DASH, MSS, RTMP, RTSM, MSE-LD, HTTP MPEG-TS protocols
Granularity	Segment
DVR mode	Endless tape
MP4 export	YES
Scheduled recording	YES
Timeshift	Session, Stream
Cloud storage support	Amazon S3, Openstack Storage (swift)
Source replication	YES
Application RAID	YES



Transcoding and video processing

Video codecs	Mpeg2, H.264/AVC, H.265/HEVC
Audio codecs	AAC, AC3, Opus, MP3, MPEG2 Audio, PCMA/PCMU, E-AC3
Video processing	Transcoding, Transrating, Scaling/Re-Sizing, Transmuxing
Logo insertion	YES
Mosaic generation	YES
DVB subtitles conversion to WebVTT	YES
Ads insertion	YES

Management

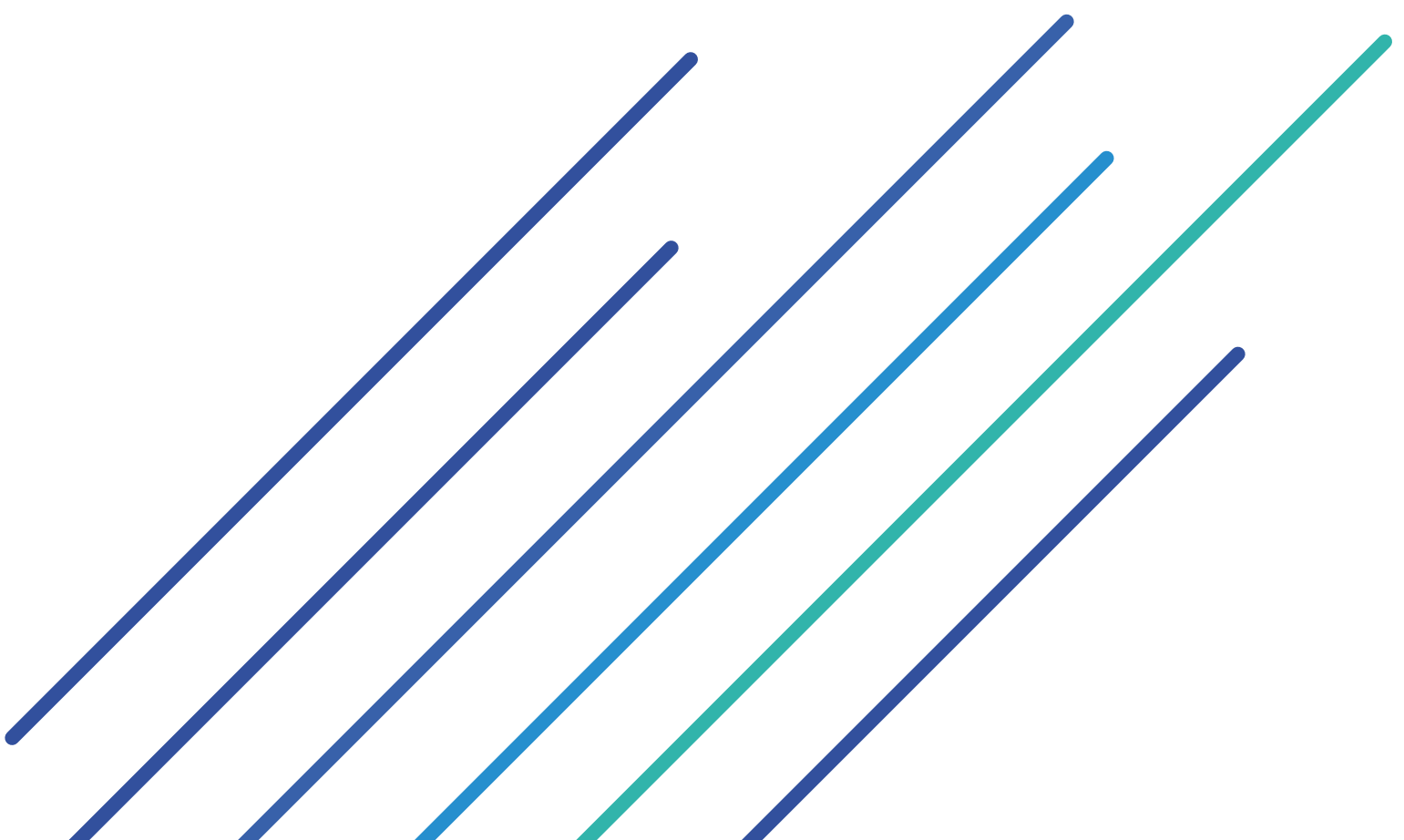
User friendly Web-UI
Flussonic Catena centralized management system
Event Handler Callbacks
HTTP API

CDN support

Push protocols	HLS push, RTMP push, UDP multicast retransmit
Akamai HLS-Push	YES
Flussonic cluster support	YES
Flussonic cluster ingest	YES
Peer redirection	YES
Transparent cluster DVR access	YES

Redundancy

Stream ingest failover	Automatic recovery to primary source, user configurable parameters and duration thresholds
Flussonic cluster load balancing	YES
Independent transcoding modules	YES



● END-TO-END VIDEO DELIVERY SOLUTION

Flussonic Media Server is a building block of the Flussonic Cluster required for processing, transmitting and further video recording. One can ingest a video stream with plenty of formats, codecs, and protocols in any point of presence of the Flussonic Cluster.

The ingested video streams exist in the Flussonic Cluster as a sequence of elementary frames. On ingress, the video is being demultiplexed into atoms and on egress, the video is being multiplexed and packaged back for delivering in every modern video streaming protocol.

● CARRIER-GRADE VIDEO STREAMING

Flussonic Media Server engineering team has been developing software for processing and streaming video since 2010. Our products allow operators to capture, transcode, record and deliver uninterrupted video to end-users.

We offer solutions for IPTV, OTT, cloud services and video surveillance providers. Flussonic Media Server hardware and software solutions generate revenue for many loyal customers in more than 100 countries around the globe.

● TO ARRANGE AN ONLINE DEMONSTRATION OR DISCUSS YOUR PROJECT,
please contact: info@flussonic.com

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All product specifications are subject to change without notice. Version 2021-01-30.001