

Scalcast Origin

With extensive modularity, flexible microservice architecture and scalable design, Scalstrm offers a new generation Cloud media platform. The entirety of the Scalecast platform is built on optimised code that utilises to full effect network efficiency and scale at every stage of the video delivery value chain. With the ability to pick and match features including continuous live recordings, real time ad-insertion/ replacement, content repackaging and adaptations into different streams for different device types.

Key features

✓ Single system media platform

The Scalecast media platform makes it easy to deliver competitive Live and Video on Demand multi-screen services, TV services like time-shift, start-over and catch-up TV, VoD services using cloud DVR or PVR.

✓ Scalability

Modern elastic micro component architecture. Effectively scale to deliver services, regardless of loads. Choose level of failover and redundancy.

✓ Ad-insertion

Ad Insertion/Replacement In OTT, personalisation is key. The Scalecast platform permits different advertising content to be served to different audience groups thus providing the individual experience demanded by the modern TV consumer and the focused targeting demanded by the modern advertising partner.

✓ Flexible deployment

Build a scalable media platform using dedicated servers on premise, private or public cloud, multi clouds, or any combination.

✓ Tile recordings

Provides an extended live window that can be days or even weeks and also at the same time provide long-tail recordings that can be used in a cloud DVR or nPVR solution. Scalecast will seamlessly shift between “true” live and “recorded” live.

✓ Management

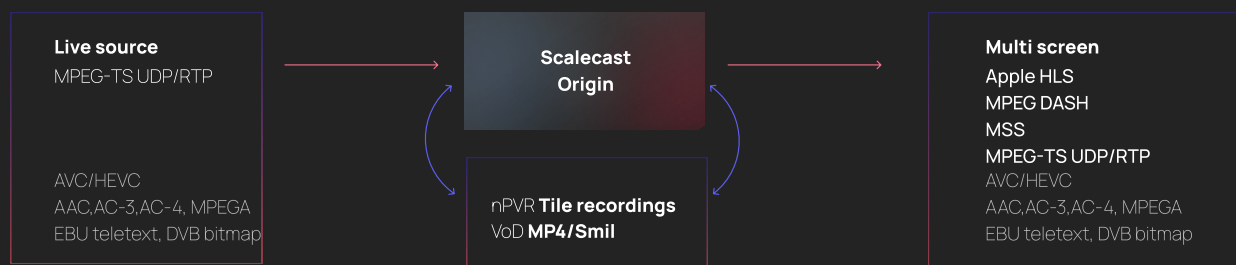
Modern elastic micro component architecture. Effectively scale to deliver services, regardless of loads. Choose level of failover and redundancy.

✓ Performance

Highly optimised components that can be scaled independently for maximum performance and resource utilisation. 1000+ ABR channels per server, 80 Gbps Apple © HLS / MPEG Dash egress.

✓ Repackaging

Scalecast has extensive format support that covers all commonly used broadcast and OTT formats. Just-in-time packaging from a single format to multiple delivery formats makes it possible to adapt content to specific devices and to create personalised video content.



Origin platform

The most powerful and easy-to-use interface for configuration, operation, analysis and monitoring

✓ Harmonized subtitling

Real time image to text subtitle conversion (OCR) for all common languages. Output to any of the text-based OTT subtitle formats. High accuracy, low latency.

✓ Synchronization & Repair

Ensure that the two copies are identical. Missing and corrupt fragments in one pipeline are repaired with data from the other, output A and B are identical at the media package layer.

✓ Adaptations

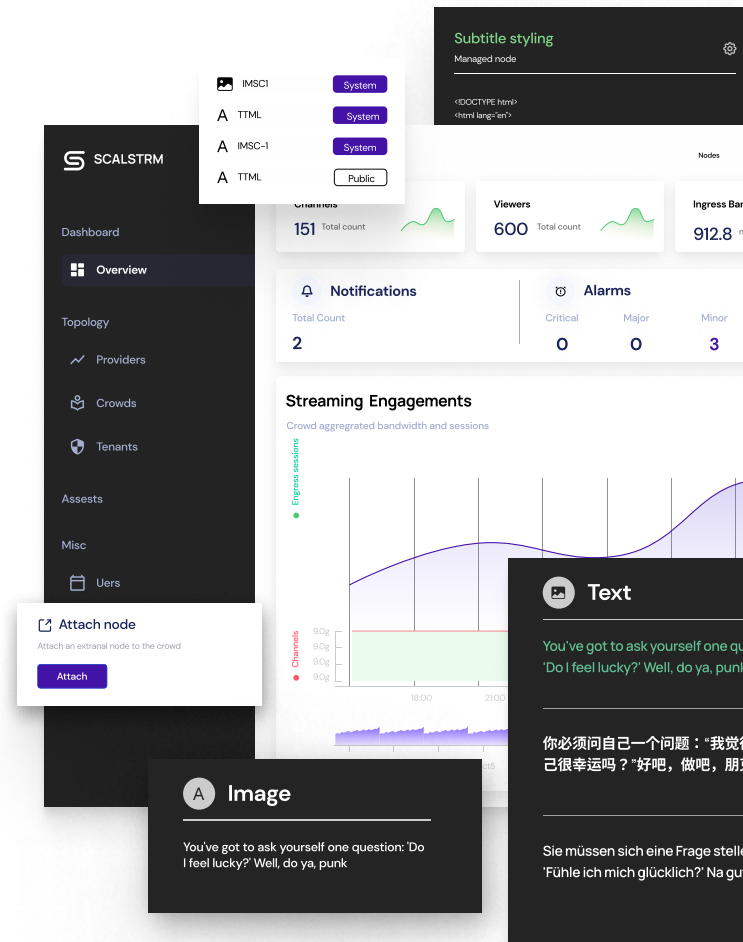
Set of rules of how to repackage the content, output ABR format, set of bitrate variants, audio and subtitles configuration.

✓ Tile recordings

Scalecast will seamlessly shift between "true" live and "recorded" live.

✓ Flexible & scalable deployment

Modern elastic micro component architecture. Deploy on premise, private or public cloud, multi clouds, or any combination.



Input

Live formats

- MPEG-TS UDP/RTP
- RTMP

VoD formats

- MP4/SMIL
- Scalecast Asset/Tile recordings

Codecs

Video: AVC/H264, HEVC/H265

Audio: AAC, AAC-LC, HE-AAC v1&v2
AC-3, E-AC-3, AC-4
MPEG Audio (MP2,MP3)

Subtitles: EBU teletext, DVB sub (image)

Subtitle

- DVB sub (image) to text conversion

Output

Formats

- Apple® HTTP Live Streaming (HLS)
- MPEG Dash
- Microsoft Smooth Streaming (MSS)
- MP4 progressive download
- MPEG-TS

Codecs

Video: AVC/H264, HEVC/H265

Audio: AAC, AAC-LC, HE-AAC v1&v2
AC-3, E-AC-3, AC-4
MPEG Audio (MP2,MP3)

Subtitles: WebVTT (text & MP4), SRT
TTML, EBU-TT-D, IMSC1

Encryption

- AES-128
- Sample-AES
- Common Encryption

Adaptations

Services

- Time-shift, start-over & catch-up TV
- Cloud DVR
- Video on Demand
- Ad insertion/replacement
- Live event streaming

System & OS

- Flexible deployment
- Local NVMe extended live cache
- CentOS 7
- Ubuntu 16.04 and later

Management

- WebUI / CLI / RESTful
- Analytics
- Monitoring
- Alerts
- Media analyzer