NEA Live

DELIVER AN IMMERSIVE VIEWING EXPERIENCE

Launch broadcast-quality, low-latency live and time-shifted TV services, quickly and securely.

NEA-Live® records, packages and streams live and near-live content to any connected consumer or operator device, according to distribution policy - and supports low latency.

Content is cached directly on NEA-Live so it can be delivered quickly to your CDN. This improves performance and lowers costs by 10% because you need fewer servers.

NEA-Live works in Pull or Push modes. In Pull mode, Just-in-Time packaging reduces the required storage and lowers bandwidth costs.

It has been integrated with all major DRM solution, and supports multiple streaming, subtitling and audio formats.

Live TV and time shift services can be up and running in just a few hours, ensuring the best multiscreen experience for your content subscribers.

NEA-Live provides access to live channels and allows subscribers to pause and restart a session. It also continuously buffers each current live programme to offer start-over capabilities within a four-hour time frame.

Widely deployed in over 100 countries. NEA-Live is integrated with multiple CDNs, to dynamically deliver live content adapted to the capacity of any network.

Ateme defines a set of hardware recommendations for a complete, pre-integrated, best-in-class solution for the delivery of video to a wide range of managed and unmanaged devices.

Applications

- Live TV on multiscreen
- Timeshift / Pause TV / Start-over

Features and Benefits

- Pull or Push mode
- Low-latency live streaming
- Fast multiscreen service deployment for live channel delivery over HTTP
- Live and time-shifted streaming server for quality content delivery to multiple screens
- Immediate and on-the-fly packaging and filtering of audio, video and subtitles
- Interoperable (EBP CableLabs)
- Integrated with a DRM key server or a manually set DRM, it protects and packages your live content
- Single node
- 1+1 nodes redundancy through virtual IP
- SCTE-35 based manifest conditioning for Dynamic Ad Insertion

Technical Specifications

Service
- Live, Pause TV, Timeshift, Start-over (4-hour buffer)
- 4-hour nDVR capabilities

Input Format
- Live Adaptive MPEG-2 TS CableLabs
- Up to 150 channels
- Up to 15 tracks per channel (video / audio / text)

Video
AVC, HEVC

Audio
AAC, AC-3, E-AC-3

Output Format
- Multiple ABR protocols
- MPEG-DASH
- Apple HLS
- Microsoft Smooth Streaming
- 4K HDR and HEVC support
- Push mode to Akamai (certified), Facebook Live, YouTube Live

Performance
Up to 1.5 Gbps input and up to 6 Gbps output according to configuration and services

Low Latency
Reduces the packaging latency to under the duration of the GOP, down to a few video frames; thus enabling end-to-end low-latency streaming.

Processing
- Filtering video, audio and subtitles
- Subtitle and Closed Caption passthrough or conversion
- Input: CEA-608/708, DVB-TXT, DVB-SUB
- Output: WebVTT, TTML, EBU-TT-D, SMPTE-TT
- SCTE-35 conversion for DAI (Manifest conditioning)

DRM
Scrambling
- MPEG-DASH CENC (PlayReady, Widevine and other DRM providers)
- Apple HLS AES-128 and SAMPLE-AES (FairPlay and other DRM providers)
- Apple HLS FairPlay
- Microsoft PlayReady
- Periodic key rotation
- Per-track encryption

Key provisioning
- Integrated with many proiders, including: Verimatrix CVAS, ArrisTitanium, Widevine, BuyDRM KeyOS, Viaccess Connected Sentinel
- Key server integration with CPIX 2.0 standard interface
- Manual Key setup

Scalability and High Availability
- Single node
- 1+1 redundancy (2 modes; Virtual IP, CDN based)