

PRODUCT BRIEF



NEA • DVR

REDUCE TCO AND IMPROVE CUSTOMER SATISFACTION

Offer the possibility of unlimited recording to your viewers, on every screen.

With NEA-DVR, you can increase customer satisfaction and ARPU, while reducing your operational costs.

Simplifies the integration between streaming and storage with hyper-convergent storage, EDS. Storage is embedded on servers, dividing the number of physical rack units by two. Access EDS storage seamlessly to improve customer satisfaction and ultimately, ARPU.

Infinite Buffer streamlines asset and storage management, so you gain up to four times more capacity.

Supports Private Copy and Shared Copy models.

NEA-DVR handles all the packaging, streaming and recording to prepare and deliver Cloud DVR, Catch-up, Timeshift and live channels to a range of targeted devices such as smartphones, tablets, personal computers and set-top boxes, according to distribution policy. Subscribers can schedule their own recordings through an EPG-based or Instant-based program.

NEA-DVR is used in a Cloud DVR solution as an ingest server, to store live content, or as a playback server, to package content and stream it to the network.

Data is shared among at least 4 NEA-DVR servers with EDS, providing a higher streaming performance and High Availability in case of failure.

NEA-DVR is part of the Cloud DVR solution with NEA-DVR DB which is used as the entry point for the Back Office and also as a central Database.

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APPLICATIONS

- Live
- Timeshift / Pause TV / Catch-up
- 7 days Catch-up TV
- VoD
- Infinite Cloud DVR solution
- Embedded Distributed Storage (EDS)
- Private Copy and Shared Copy

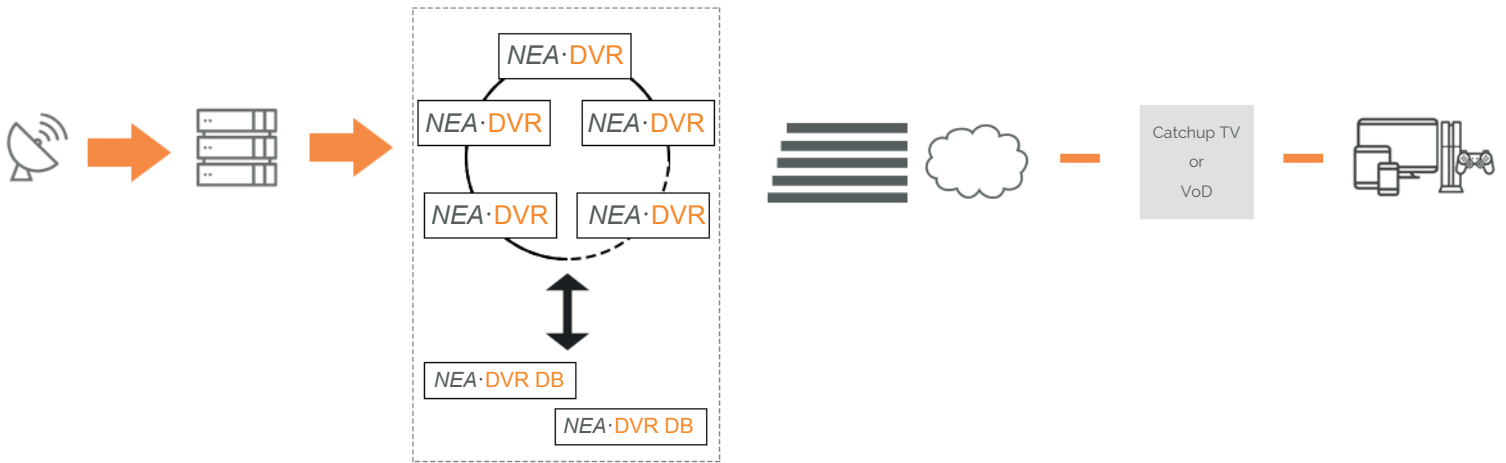


FEATURES AND BENEFITS

- Cloud DVR solution for individual EPG-based or instant-based recordings
- Optimized Embedded Distributed Storage (EDS) for High Availability and Ingest / Playback performance
- Origin server for Catch-up TV and VoD delivery managed by a Back Office
- On-Demand / Just-in-Time packaging (HTTP Streaming Protocol) and filtering of audio, video and subtitles
- Encoder agnostic (EBP CableLabs)
- Multi-DRM to protect and package your live content
- SCTE-35 based manifest conditioning



SYSTEM ARCHITECTURE



TECHNICAL SPECIFICATIONS

Service

Cloud DVR, CUTV, Live, Pause TV, Timeshift, Start-over, VoD

Input Format

- Live: Adaptive MPEG2-TS CableLabs, Microsoft Smooth Streaming
- Up to 150 channels
- Up to 15 tracks per channel (video / audio / text)

Video

AVC, HEVC

Audio

AAC, EAC3, EAC3+

Output Format

- Multiple ABR protocols
- MPEG-DASH
- Apple HLS
- Microsoft Smooth Streaming
- 4K and HEVC support

Processing

- Filtering video, audio and subtitles
- Subtitle and Close Caption passthrough or conversion
- Input: CEA-608/708, DVB-TXT, DVB-SUB
- Output: WebVTT, TTML, EBU-TT-D, SMPTE-TT
- SCTE-35 based manifest conditioning (DASH and HLS)

Administration

- Web-based GUI
- Monitoring (SOAP and SNMP)
- System Alarms and logs

DRM

Scrambling

- DASH (CENC Generic, CENC Widevine)
- HLS (Verimatrix, Playready, NagraVision)
- SS (Verimatrix, Viaccess, BuyDRM)
- Per track encryption for HLS and DASH

Key provisioning

- CPIX 2.0 support DRM integration with fixed keys
- Manual key
- Interface with leading DRM providers

Performance

- Up to 1.5 Gbps input per ingest node (or 150 channels)
- Up to 4 Gbps output per Playout node
- 1 NEA-DVR DB node handles up to 12 NEA-DVR nodes
- 144 TB raw storage capacity per NEA-DVR node

Scalability and High availability

- Redundant ingest: 1+1 Active/Passive (Seamless Failover)
- Load balancing playback: N+1 Actives
- Redundant NEA-DB: 1+1 Active / Passive NEA-DB
- Secured storage with erasure coding
- Full Data replication

Provisioning NEA-DVR DB

- Unique integration point (Back Office)
- Multiple Services Platform Contact