

## REPACKAGE AND ENCRYPT ON-THE-FLY AT THE EDGE OF YOUR CDN

Distribute and cache all your content in a single format – then repackage it on-the-fly at the edge of your TV CDN. This saves backhaul network and cache storage in the CDN. The Edge TV Repackager converts your TV assets to the different streaming formats required by today's devices such as HLS, DASH and MSS. Content can also be encrypted, which is applied on request according to its digital rights management (DRM) schemes.

### WHAT IT DOES

Repackaging your content at the edge of your TV CDN can reduce the backhaul bandwidth and cache storage required by a factor of two to three.

Only a single version of the content files needs to be delivered from the origin to the edge. Saving files in only one format instead of three (HLS, DASH, MSS) frees up caching memory in the CDN.

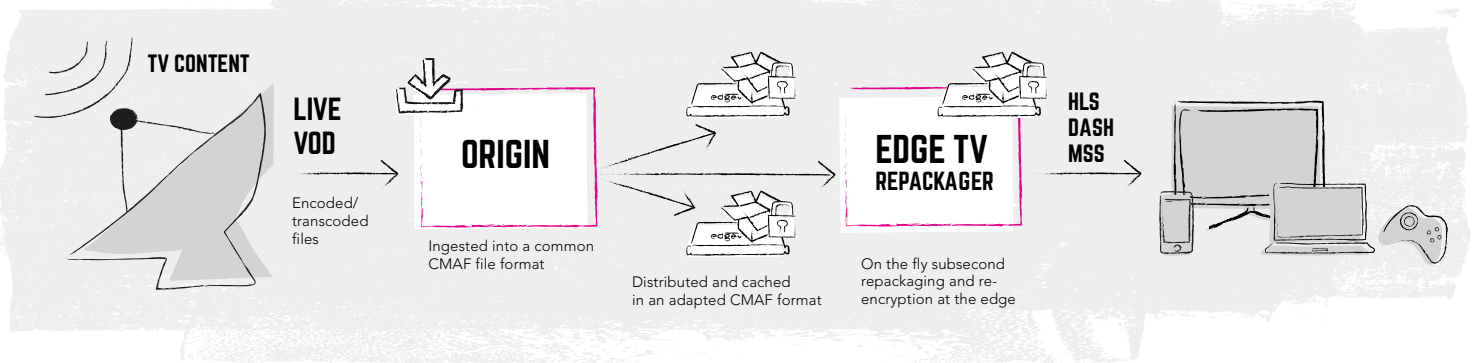
Distributing the repackaging function to the edge of a TV CDN reduces risk of buffering and improves the viewing experience.

### KEY FEATURES & BENEFITS

- ✓ Distributes and caches TV content in a single common file format.
- ✓ Repackages on-the-fly at the edge of the network, as required by the client device, into universal output formats – including HLS, DASH and MSS.
- ✓ Enables content protection in the same workflow, integrated with leading DRM providers including Verimatrix, Playready, Fairplay, Widevine, Kaltura and Clearkey. Supports additional security features such as key rotation and partial encryption.
- ✓ Supports multi-language audio and subtitles for each respective streaming format.
- ✓ Enables streaming of latest 4K and UHD standards with sub-second latency.

### HOW IT WORKS

1. All of your assets, either live ATS feeds, VOD files or recordings, are ingested in the origin into a common CMAF storage format ready for rapid repackaging to required ABR format on request.
2. Content is distributed across your TV CDN and stored in cache memory in an adapted CMAF format.
3. When content is requested, the Edge TV Repackager retrieves, converts and encrypts it to the right format required by the client device.



## HOW TO DEPLOY

The Edge TV Repackager offers multiple deployment options for various deployment scenarios and customer preferences.

Deployments can be made on standard computing platforms (COTS), on Edgeware's plug-and-play 4020/4080 TV Servers or in the cloud.

## TECHNICAL SPECIFICATIONS FOR EDGE TV REPACKAGER IN COMBINATION WITH ORIGIN SOLUTION

LIVE INGEST
Multicast ATS
VOD INGEST
DASH on Demand
MP4 (with SMIL)
HLS
VIDEO & AUDIO CODECS
Video codecs:
AVC/H.264
HEVC/H.265
Audio codecs:
HE-AAC
AAC-LC
AC-3 (Dolby Digital)
E-AC-3 (Dolby Digital Plus)
Dolby Atmos
SUBTITLES
EBU Teletext (in)
Cavena Teletext (in)
DVB Subtitle (image based) (in)
CEA-608/708 Closed Caption (Passthrough)
WebVTT (in/out)
TTML/IMSC-1 (in/out)

OUTPUT FORMATS
HLS
MPEG-DASH
MSS
ENCRYPTION AND DRM
AES-128 + Sample-AES
Common Encryption
FairPlay Streaming
PlayReady, Widevine, Verimatrix
Irdeto, Conax and others
PLATFORM
COTS
Cloud
4020/4080 TV Server
HIGH AVAILABILITY
Synchronized segmentation
Repair mechanism between circular buffers
Multiple circular buffer deployment options

DYNAMIC AD ENABLERS
Ad Markers from SCTE-35
OTHER FEATURES
Customizable client output profile
Circular Buffer based on one-minute CMAF tracks
SYSTEM CONTROL
SNMP (Control and Status)
REST XML API
System Resource & Statistics Monitoring
Notification and Alerts

### FOR MORE INFO ON RELATED PRODUCTS, PLEASE SEE:

- [TV Content Capture Data Sheet](#)
- [TV Delivery Data Sheet](#)
- [4020/4080 TV Server Data Sheet](#)