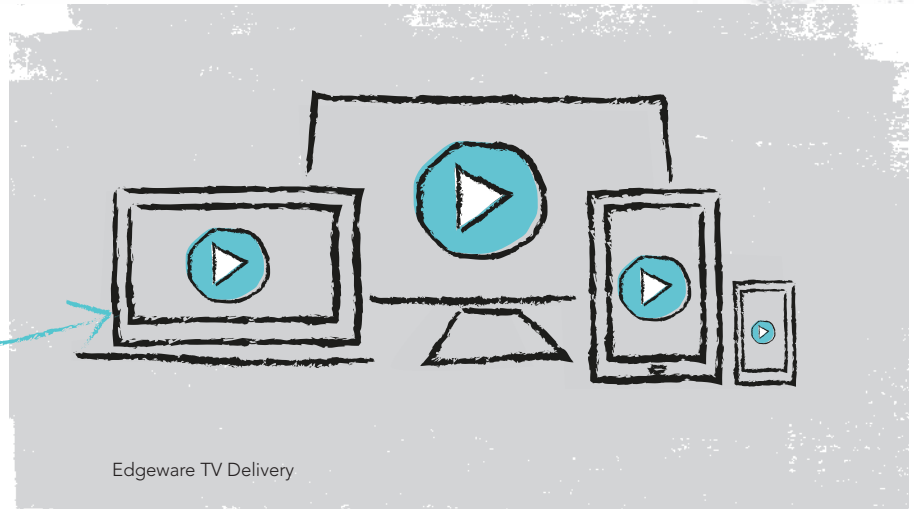


EDGEWARE PRODUCT PORTFOLIO		
MGMT & CONTROL	TV System Manager	
	TV Analytics	
	Multitenancy	
ORIGIN SOFTWARE	TV Content Capture	
	TV Repackager	
	TV Ad Insertion	
	CDN Selector	
CDN SOFTWARE	TV Director	
	TV Delivery	
	Edge TV Repackager	
	TV Watermarker	
	Fast Channel Change	
PLATFORM OPTIONS	Public/private cloud	TV Server 4020/4080



OPTIMIZED STREAMING AND CONTENT CACHING FOR IPTV AND OTT TV

Edgware's TV Delivery Software is designed for broadcasters, telcos, cable providers and TV content owners who want to control their own TV delivery networks. It distributes TV delivery closer to the viewer, meaning content caching and streaming are provided in the edge for best possible viewing experience. With an optimized storage architecture and intelligent routing policies, TV Delivery offers a highly scalable CDN solution.

WHAT IT DOES

Edgware's TV Delivery software is used to build a distributed TV delivery system that provides a highly scalable TV CDN solution.

Distributing streaming and caching significantly reduces backhaul traffic – or third-party CDN costs – and allows TV services to grow with far greater economy of scale than a general-purpose CDN service.

It also allows the content owner greater control over the viewing quality, reducing buffering, delays and glitches.

TV Delivery can also, in combination with Edge TV Repackager, repackage and encrypt the stream to include watermarking & ad insertion, directly at the edge. This translates to even more savings in backhaul capacity.

KEY FEATURES & BENEFITS

- ✓ Dynamic edge cache optimized for distributed TV delivery holding popular content closer to the viewer
- ✓ Streaming platform for both IPTV* and WebTV (OTT) models supporting VOD, live and time-shift services
- ✓ Supporting all ABR formats HLS, DASH, MSS
- ✓ Content propagation in hierarchical cache architectures minimizing storage need
- ✓ Enforcing routing policies from TV Director for an optimized TV delivery
- ✓ Ideal in both central and edge deployments

HOW IT WORKS

1. Requests from client devices are directed to the TV Delivery servers most optimized for streaming that particular content.
2. The routing policies enforced by the TV Director on the TV Delivery software are based on server load level and content availability.

Examples of routing policies the TV Delivery software can include are client location, server load level and time & date.
3. TV content is streamed to the client device in the requested format and bitrate.

* Only supported on 4020/4080 TV Server

TV CONTENT

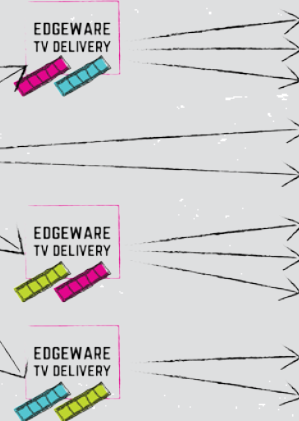


LIVE VOD



TV content cached and streamed in a distributed and hierarchical architecture

HLS, DASH, MSS



- Popularity based content propagation.
- Streaming through all levels - most popular content distributed from edge clusters while longer-tail requests are streamed from centralized clusters - optimizes utilization of your network
- Streaming to viewers at different locations and to multiple device types and formats.

HOW TO DEPLOY

The TV Delivery software offers multiple deployment options for various deployment scenarios and customer preferences. Deployments can be made on standard computing platforms (COTS), on Edgware 4020/4080 TV servers or in the cloud.

The TV Delivery Software is easily deployed and configured on COTS HW to temporarily boost streaming capacity for large live events.

TECHNICAL DATA / SPECIFICATIONS

SW FEATURES
OTT TV (HTTP/S)
IPTV (RTSP*)
Multiple certifications and hosts
Immediate streaming
SD, HD, 4K, Virtual Reality TV
Live, VOD, time-shift TV
Ingest content
Session handling with token security
On-the-fly repackaging and encryption
Dynamic Ad Insertion
Backend selector (load balancing, cache partitioning and advanced fail over)
Security and redundancy
IPv4, IPv6 and IGMPv3
Precalculated bandwidth sessions
Configurable limitations avoiding overload

VOD UDP RET*
CORS/Chromecast
Apple TV
Popularity based content propagation and caching
Content aware clustering with configurable performance vs redundancy
External origin support
HLS, MPEG-DASH, MSS

SYSTEM HW / SW
Linux RHEL 7
COTS, cloud, 4020/4080 TV Server
HTTP/TCP, RTSP/UDP, HTTPS
FTP, IPTABLES, SNMP, SSH, TLS 1.0**/1.1**/1.2

* Only supported on 4020/4080 TV Server

** Only supported on virtualized TV Server

FOR MORE INFO ON RELATED PRODUCTS, PLEASE SEE:

- [TV Director Data Sheet](#)
- [Edge TV Repackager Data sheet](#)
- [4020/4080 TV Server Data Sheet](#)