

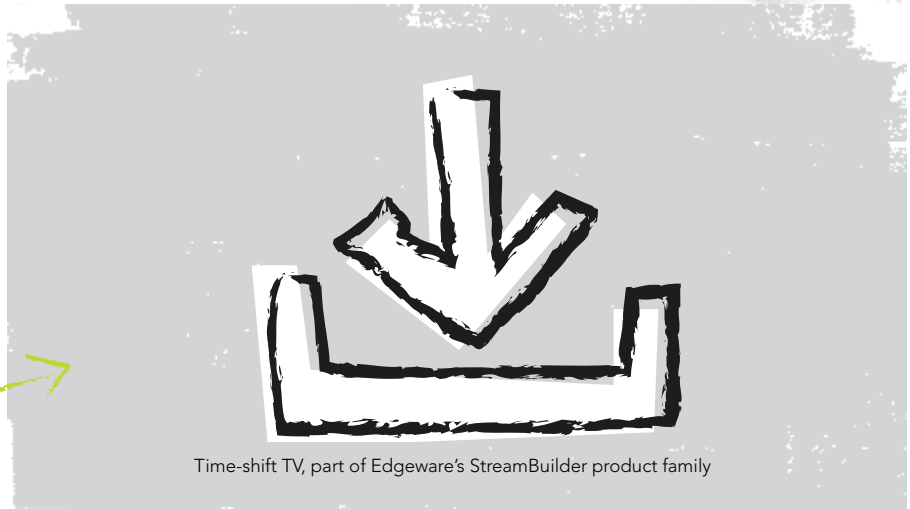
**STREAMBUILDER OVERVIEW**

StreamBuilder is one of Edgware's four product families and includes content processing functionality necessary for an OTT distribution.

Available as both an on-prem and saas offering it brings key capabilities to capitalize your content, offer a glitch-free viewing experience and a scalable solution.

StreamBuilder includes products for the following applications:

- OCR Subtitling
- Ingest and Segmentation
- Ad Insertion
- Time-shift TV
- Just-in-Time Repackaging
- Protection
- Content Stitching



Time-shift TV, part of Edgware's StreamBuilder product family

## CONVERT YOUR LIVE CONTENT TO TIME-SHIFT TV ASSETS AND ENABLE TV ANYWHERE ANYTIME

Time-shift TV, part of Edgware's StreamBuilder product family, unlocks the value of your live content by offering time-shift services such as start-over TV, catch-up TV and cloud DVR. Store your live content in the circular buffer or as a recording and capitalize your TV rights investments by offering TV services whenever and wherever your customers want.

**WHAT IT DOES**

Edgware's StreamBuilder products provide the ultimate capabilities for distributing live streams and VoD assets over an http delivery platform.

Time-shift TV is one of the products in the StreamBuilder product family. It stores your live content and enables multiple time-shift services.

To offer live streams as time-shift services you can choose to store the live segments in internal or external circular buffer (NAS).

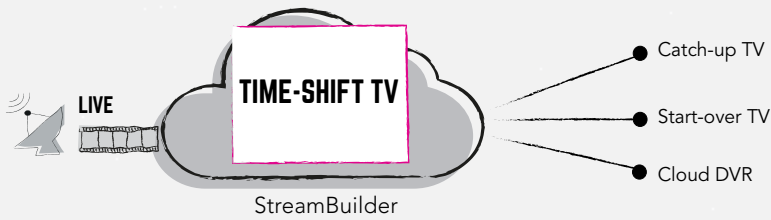
To offer cloud DVR services, the segments can be stored as recordings on a NAS or in cloud-based storage.

**KEY FEATURES & BENEFITS**

- ✓ Capitalize your TV rights investment and offer time-shift TV services
- ✓ Enable your customers to choose from a variety of time-shift services such as catch-up TV, start-over and cloud DVR
- ✓ Flexible and redundant circular buffer configurations for optimized storage utilization and glitch-free fail-over
- ✓ Save ad markers to enable insertion of new or updated ads at a later point in time

**HOW IT WORKS**

1. Segmented live streams from the Ingest and Segmentation product are stored in the circular buffer.
2. Content is extracted from circular buffer and offered as time-shift TV services such as catch-up and start-over TV.
3. Private and shared copies (cloud DVR) can be done by persisting part of the circular buffer as a VoD asset on internal or external storage (NAS).
4. Offline viewing can be offered when combined with Download 2 Go functionality in the Packager and Protection product.



Untap your live content assets and convert to time-shift TV services

## HOW TO DEPLOY

Time-shift TV can be deployed in public or private clouds, in data centers or on COTS hardware. The product can also be offered as part of the Edgware Cloud

Service, with Edgware operating it from the cloud. The modular architecture of the StreamBuilder products allow full flexibility to suit different mar-

ket characteristics and business models and provide an elastic and scalable content processing solution.

## TECHNICAL SPECIFICATIONS FOR TIME-SHIFT TV

TIME-SHIFT TV SERVICES
Catch-up TV
Start-over TV
Cloud DVR
CLOUD DVR
Recordings in the past
Shared copy
True private copy
DYNAMIC AD MARKERS
Ad Markers from SCTE-35 stored for later ad insertion
OTHER FEATURES
Circular Buffer based on one-minute CMAF tracks
Download 2 Go

CLOUD FRIENDLY
Object based storage
S3
Azure blob
Cloud platforms
AWS
Azure
HIGH AVAILABILITY
Node redundancy
Node synchronization
Repair mechanism between circular buffers
Multiple circular buffer deployment options

SYSTEM CONTROL
SNMP (Control and Status)
REST API
Configuration and Monitoring GUI
System Resource & Statistics Monitoring
Notification and Alerts
SYSTEM HW / SW
Linux RHEL 7+ CentOS 7
Unlimited number of CPU Cores
IPv4 + IPv6
IGMPv2 + IGMPv3
HTTPS/FTPS