

## MediaScale™ Origin

### ATA-GLANCE

- Video On Demand, Live ABR Streaming, Time-Shift TV, and Cloud DVR
- Support for IP devices and traditional cable set-top-boxes
- Time-shift TV includes pause live TV, restart TV, catch up TV, and EPG correction
- Just-In-Time Packaging for IP devices including HLS, HSS, HDS, and MPEG-DASH
- Just-In-Time Encryption with DRM (Digital Rights Management) integration
- Comprehensive API for external application integration
- Management system for configuration, monitoring, and analytics
- Optimized storage platform integration
- Flexible deployment options for software only, VM/Containers, and hardware appliance

## MediaScale™ Origin SOLUTION FOR CDN PLATFORMS

MediaScale™ Origin is a comprehensive platform that enables content service providers to ingest, host, transform and distribute video content to any device, any time, over any network. MediaScale™ Origin uses a common integrated architecture to enable service providers to launch live video streaming, video on demand, catch up TV, restart TV, and cloud DVR services to IP devices and traditional cable set-top boxes.

Integrated content adaptation for Just-In-Time IP packaging and encryption ensures the content is delivered using adaptive bitrate (ABR) formats and content protection methods (DRM) needed for all your end users' devices.

Using a common platform with multiple deployment options for video on-demand (VOD), Time-shift TV, cDVR, and live streaming, combined with the ability to deliver to IP Devices and cable set-top-boxes, MediaScale™ Origin allows you to easily and cost-effectively grow revenue and reduce churn by providing subscribers advanced video viewing features and a high-quality experience.

## MULTI-SCREEN DELIVERY

With support for cable set-top-boxes and IP devices offering dynamic content adaptation capabilities including on-the-fly repackaging and DRM content protection, MediaScale™ Origin eliminates the need for expensive and time-consuming preprocessing of content into multiple formats and DRM encryption schemes. These features reduce the cost and scaling challenges associated with multi-screen video delivery.

## FLEXIBLE DEPLOYMENT

MediaScale™ Origin architecture was designed to easily integrate into existing infrastructures. It is available as an optimized hardware appliance or as software. MediaScale™ Origin provides the deployment flexibility to reduce implementation costs, leverage previous investments and establish a migration path to support emerging technology trends.

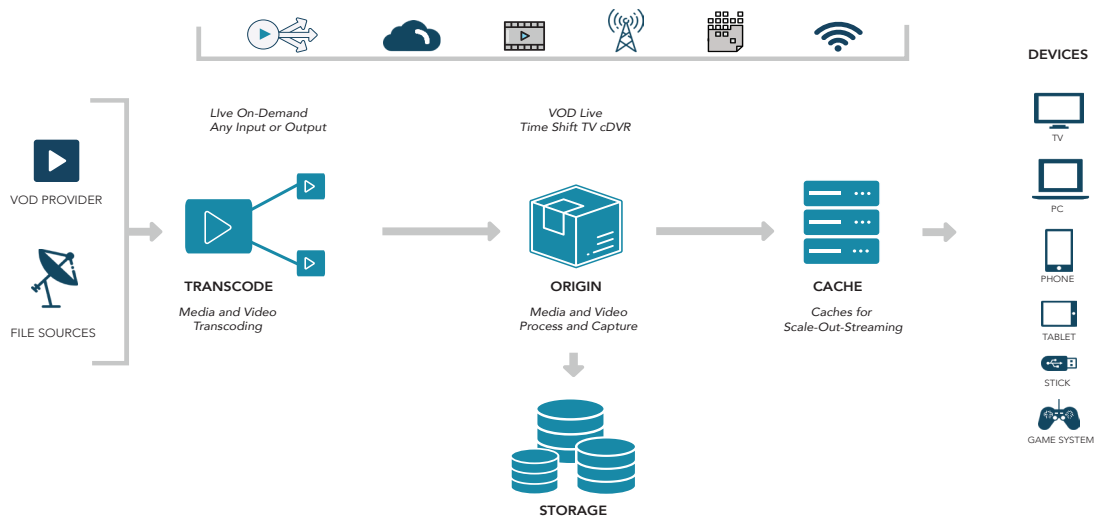
## CONSOLIDATED PLATFORM

The consolidated MediaScale™ Origin solution provides a low-cost entry point by using an all-in-one server with on-board content storage. By introducing external storage, the platform may be deployed with two initial servers for the core MediaScale™ Origin features with the ability to easily add servers for live recording and streaming capacity scalability as needed. A management server is also available for configuration, monitoring, and analytics.

## ADVANCED VIDEO SERVICES

The solution can also be provided as a software-only package for qualified hardware configurations including VM (Virtual Machine) and Container-based environments. This provides maximum flexibility to service providers as they drive to an optimized solution architecture.

MediaScale™ Origin features a comprehensive Cloud DVR solution that enables a full spectrum of time-shifted services, such as Restart TV, Catch-up TV, and pause/rewind live TV. Using a configurable buffer to enable time-shifting of live broadcast content, MediaScale™ Origin allows consumers to pause live TV, rewind programs even if they just tuned to the channel, go back to the beginning of a show they are currently watching, and view shows previously broadcast. These services are available for classic cable set-top-boxes and IP Devices including Just-In-Time Packaging and Just-In-Time Encryption (DRM).



## SPECIFICATIONS

### IP DEVICES

- VOD ingest – MPEG2-TS, MP4, HLS, HSS, HDS
- Live ingest – MPEG2-TS (ABR), RTMP, HLS, HSS
- Live recording – MPEG2-TS (ABR), HLS, HSS
- CODEC – video (AVC/H.264, HEVC/H.265), audio (AAC, Dolby AC-3)
- JIP-P (Packaging) – HLS, HSS, HDS, MPEG-DASH
- JIT-E (DRM) – PlayReady, Secure Media, Verimatrix, Widevine, Irdeto, MPEG-DASH/CENC
- Comprehensive Web-services API
- Solutions – Video On Demand, Live ABR streaming, Time-Shift TV (Network Time-Shift Buffer, ReStart TV, Catch-Up TV), Cloud DVR, EPG Correction

### RTSP CABLE TV SET-TOP BOXES

- VOD ingest – MPEG2-TS
- Live recording – MPEG2-TS
- CODEC – video (MPEG2, AVC/H.264, HEVC/H.265), Audio (AAC)
- Content interfaces – ATIS, NGOD, ADI
- Comprehensive Web-services API
- Solutions – Video On Demand, Trick-File generation, Time-Shift TV (ReStart TV, Catch-Up TV), Cloud DVR, and EPG correction

### DEPLOYMENT OPTIONS

#### SOFTWARE

- Provided as a software package to be installed on hardware meeting minimum specifications or previously qualified
- Support for VM (Virtual Machine) and Container based environments

#### HARDWARE APPLIANCE

- Consolidated Single Server with On-Board Storage. One 2U server with 24 available content disks.
- Multi-server platform. Two initial 1U servers connected to external storage. Provides the core functionality including high availability. Add additional 1U servers to support increased capacity for live recording or video streaming.
- Management Server. A 1U server for configuration, monitoring, and analytics.