

Scality & Broadpeak Video Consumption Has Changed

In the 1990s, if we wanted to record a television program or watch a recording, most of us used VHS tapes. Around the end of the 1990s, the first digital video recorder (DVR) appeared, which allowed us to record directly to a local storage device. DVRs were costly to deploy and maintain at scale, so service providers quickly moved to a centralized storage architecture where video content is stored in a data center and remotely accessed by the consumer.

Fast forward to today, and we can now stream virtually unlimited content on a variety of devices ranging from traditional televisions to tablets to mobile phones—the age of cloud personal video recording is here.

CHALLENGES AND REGULATIONS

While the experience of being able to watch whatever we want, whenever we want from any device is wonderful for the consumer, this model creates challenges for TV service providers. Legal, regulatory and financial considerations related to copyright and carriage agreements affect the technical implementation of such a cloud DVR service.

For example, in the United States, TV service providers have been driven to implement cloud DVR in a “private copy mode” where, for each subscribers’ recording request, an individual ingest process can not use more than 1.2 seconds of buffer to create a unique recording file. The playback has also to be done from that unique recording

file. This is to comply with the requirements of the personal copy provision (aka “fair use”) within the US Copyright Act of 1976. In other countries, TV service providers are able to operate the cloud DVR service in a “shared copy mode” where a common ingest process can be used to generate a single recording file that can subsequently be used for playback.

Additional challenges include architecting a solution that provides the performance required by consumers with the low cost, scalability, and resiliency TV service providers require to maintain 24x7 service.

BROADPEAK AND SCALITY: POWERING CLOUD DVR

Broadpeak’s portfolio of solutions and technologies powers the delivery of movies, television programming and other video content over managed networks and the internet for viewing on any type of device. Scality provides cost-effective, infinitely scalable, geographically-distributed storage ideally suited

Key Benefits

Lower Costs

Scality RING lowers TCO through storage usage efficiency, standard x86 server support and simple management—and it grows with production, resolution and your catalog, offering unlimited, linear scalability.

Safer Data

Scality enables 100% availability and up to 14 nines durability, with multi-site options to tolerate entire site failure. Upgrade, expand and maintain access, even during unexpected outages—it’s good for business.

Faster Streaming

Scality provides high throughput for streaming HD content to many simultaneous users in many formats through multiple CDNs, including public cloud providers. Plus, Scality RING runs on standard x86 hardware and has been pre-integrated with a rich selection of enterprise storage hardware.

Flexibility

Broadpeak’s cloud PVR solution enables implementation of cloud DVR services in either a shared copy, a private copy or a hybrid mode. For private copy-based deployments, we additionally support a number of storage optimizations, such as low-profile storage, file-based deduplication and storage tiering.

Simplicity

It’s easier than you think! The Broadpeak cloud PVR solution is pre-integrated with major content management systems and supports delivery to legacy STBs and OTT devices. Equally, the Scality RING solution is pre-integrated and tuned for the Broadpeak cloud DVR workload.

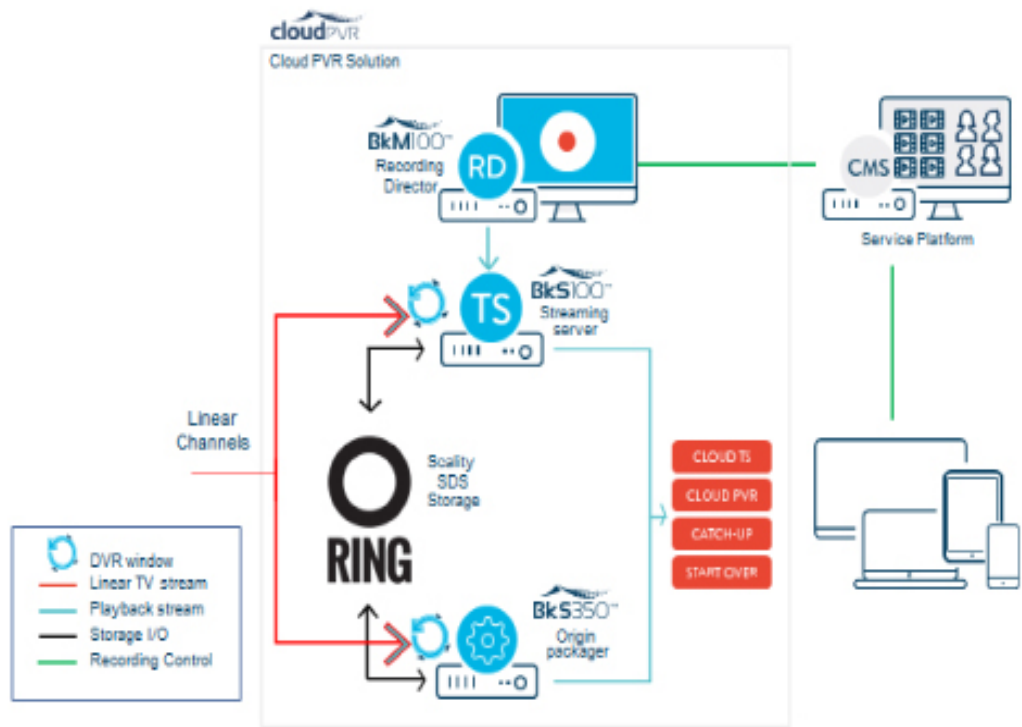
to the demands of media and video content.

Together, Broadpeak and Scality offer an integrated solution that enables TV service providers to deliver a feature-rich, always-on cloud DVR service.

THE SOLUTION

Broadpeak's cloud PVR is a flexible and modular solution. The solution is built around a high-performance recorder (with built-in caching) managed by a recording manager for overseeing the copy policy and the scheduling of the recordings. Storage costs are optimized by using on-the-fly packaging and by leveraging Scality's RING storage.

Scality RING is a massively scalable file and object storage solution. RING offers low TCO by allowing a mix and match of industry-standard, off-the-shelf servers. RING can scale linearly with the growth of content and provide great performance across media workloads. This allows consolidation of data and aggregation of workflows into a single, highly resilient, cost-effective platform that enables 100% availability and 14x9s of durability through hardware failures, capacity expansions, software upgrades, and hardware generations with minimal intervention and minimal storage overhead—all without hardware lock-in.



ABOUT BROADPEAK

Broadpeak designs and manufactures video delivery components for content providers and network service providers deploying IPTV, cable, satellite, OTT and mobile services.

ABOUT SCALITY

Scality® storage propels companies to unify data management no matter where data lives — from edge to core to cloud. Our market-leading file and object storage software protects data on-premises and in hybrid and multi-cloud environments. With RING and ARTESCA, Scality's approach to

managing data across the enterprise accelerates business insight for sound decision-making and maximum return on investment. To compete in a data-driven economy, IT leaders and application developers trust Scality to build sustainable, adaptable solutions. Scality is recognized as a leader by Gartner and IDC.

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