

DATA SHEET

Solbox Cloud Streaming

With the booming of internet applications and entertainment electronics, it comes with an enormous streaming multimedia over the Internet: anyone can access the media content on the Internet anywhere, anytime, for any purpose. With the emerging of cloud computing paradigm, the cloud media streaming solution helps the content providers or the OTT service providers to build media service with a minimal set of servers and to scale the hardware investment up in proportion of the service growth, so that end users can satisfy their varieties of streaming demands as long as it can access to internet.

With efficient and proven storage virtualization and intelligent service routing technology, Solbox is now releasing the Cloud Streaming Platform(CSP) for the high quality videos with lightweight and high performance. The **Solbox Cloud Streaming** consists of **Solbox Cloud Storage**, a large and distributed cloud storage cluster comprised of multiple storage units tied together through virtualized application, and **Solbox Service Router** to provide intelligently load balancing and load dispatching by the content.

The **Solbox Cloud Streaming** integrates CDN edge servers and cloud storage into a single infrastructure, minimizing hardware investment and operational costs. It will create a new CDN business opportunities for OTT providers and content providers who want to start the media service before anyone instantly and lightly and to gain a competitive edge in the market.

Benefits

- **Solbox** provides complete suite of integrated solutions for multiple device(PC, Smart TV, mobile, tablet, and settop box) media streaming system in supporting streaming services like media content distribution, live video broadcast and video on demand for the OTT service, the digital signage or the e-learning service providers.

- The content service providers can minimize initial capital expenditure(CAPEX) on hardware, software, and services by the modular and stackable architecture.
- Individual CDN server storage can be formed to cloud storage virtually to avoid extra cost for content storage. Simple addition of servers will provide more storage and bandwidth capacity as the service grows.
- Automated operation management for CDN configuration and capacity changes improves operational efficiency and reduces the risk of operator's errors.
- The **Solbox Cloud Streaming** provides more enhanced security for the user access, so that you can provide the fault-tolerant Pay per View service on the multiple devices.

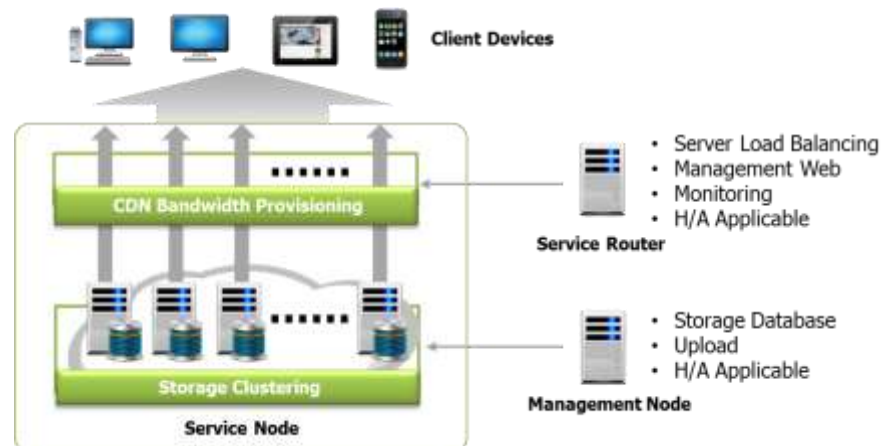
Features

- **Platform Virtualization**
With a virtualized storage layer, storage resources can be pooled so that many storage(including heterogeneous ones) appear as one, and data can move freely among them.
- **Media Service Support**
Support media streaming service in multiple devices and OTT services with the HTML5 environments by supporting standard HTTP 1.1 Progressive Download and Apple HTTP Live Streaming.
- **Content Replication and Distributed Storage**
Automated content replication in Cloud Streaming Platform(CSP) internally or externally enables you free from the separate backup system and mirroring solutions. Especially the hot content replication support provides you uninterrupted work in time of unexpected traffic burst.
- **Real-time Allocation Control**
Adjust the storage allocation real-time and flexibly according to the service situation. And when you want to add more storage, you simply attach more disks to any part of the cloud. And down as usual, you can reduce the disk.
- **Intelligent Load Balancing and Load Dispatching**
Offload the traffic of storages effectively to prevent the service failure. Expected to increase in any specific data request, it notifies the change and offloads in advance to provide the stable service.
- **Enhanced Security**
Block the contents leakage against the malicious access more intensively, by designating the expiration time of authentication token to access the contents.
- **Auto Failure Detection and Recovery**
Monitor the failure in storage hardware and services and report to the administrator automatically alarmed by any possible tools like SMS or e-mail. It reduces operation overhead and manages the service with minimum cost.
- **Rapid Response Time**
Provide the rapid response performance instantly requested by the users on the optimized system through the development and operation experiences over years.

Specification

Category	Description	
Features	Service Protocol	<ul style="list-style-type: none"> Standard HTTP 1.1
	Streaming Support	<ul style="list-style-type: none"> HTTP Progressive Download HTTP Live Streaming
	Max Storage Capacity	<ul style="list-style-type: none"> Unlimited
	Max File Number	<ul style="list-style-type: none"> Unlimited
	Contents Replication	<ul style="list-style-type: none"> Automated replication in the CSP internally or externally Detection of hot contents and automated replication
	Service Routing	<ul style="list-style-type: none"> DNS-based GSLB(Global Server Load Balancing) HTTP redirection-based load dispatching
	Failure Detection and Recovery	<ul style="list-style-type: none"> Auto failure detection and fail-over Real-time report and notice using SMS, e-mail, etc
	Contents Upload	<ul style="list-style-type: none"> Standard FTP
	Security	<ul style="list-style-type: none"> Authentication token support The expiration time of authentication token
	Management/Monitoring	<ul style="list-style-type: none"> Web and CLI-based monitoring and management environment

Diagram



Applicable Services

- OTT Media Service / IPTV / E-Learning / Other Media Services