

## DATA SHEET

# Media Streaming

The media landscape changes almost daily and your audience's demand for high-quality online content will only continue to grow. Users have access to higher broadband connections and demand online video delivered with higher quality than ever before. The web service providers are requested to deliver content online with an experience that is parallel to traditional viewing experiences.

The **Solbox Media Streaming** provides you with a comprehensive solution designed to reliably deliver and manage high-quality live and on-demand content across a broad spectrum of platforms and devices over the Internet.

- VOD Streaming

VOD Streaming is a service that you can see the content that you want at any time. Mainly from services such as e-learning or broadcasting re-apply. Multimedia contents of large-scale storage according to the user's request are sent in a format suitable for end-users.

- Live Streaming

Live Streaming relays broadcasting in the field or organized media file in advance to the user in real-time. Live Streaming performs real-time directly from the encoder or receives from the origin servers of real-time broadcasting.

## Benefits

- Support live and on-demand streaming
- Provide smooth, fast transmission of your high-quality content
- Automatically deliver to multiple mobile devices without pre-encoding content
- Reach new audiences (such as iPhone and iPad) without having to make any changes to existing streams
- High performance for immediate user access to your content
- Massive scalability to handle peak loads and flash crowds

- Reporting tools for analyzing traffic and audience
- Lower cost of delivery

## Features

- Supports Emerging Formats  
Content is delivered to multiple devices using live and on-demand content distribution with Microsoft Smooth Streaming, RTSP, RTMP, HTTP Progressive Download, and Apple HTTP Live Streaming.
- Seamless Playback  
Provide the global load balancing that connect to the server on the optimal path in the network to ensure gapless playback regardless of network status. And it ensures the flawless playback by providing connection to the optimized network server and applying Adaptive Streaming technology.  
In addition, sending a stream of optimal bandwidth based adaptive bit rate streaming (Adaptive Bitrate Streaming) technology support.
- Reliable Live Streaming Service  
Through the Live Streaming of the redundant origin server, when the origin server fails, the edge will automatically be switched to the available server. When an unpredicted error occurred in an origin server, the remaining server can provide the constant service without interruption.
- Powerful Content Security  
Block unlawful access, use, and distribution of source contents. Powerful encryption algorithms applied one-time URL, access control to restrict access by IP and country, AES-128 bit encryption-based content encryption are provided.
- Add-on Services  
Provide the Live source stream transcoding to automatically convert to the streams of proper codecs, resolutions, and the bit rate depending on the devices. The content providers can provide the service in a variety of devices by sending one of the original stream.

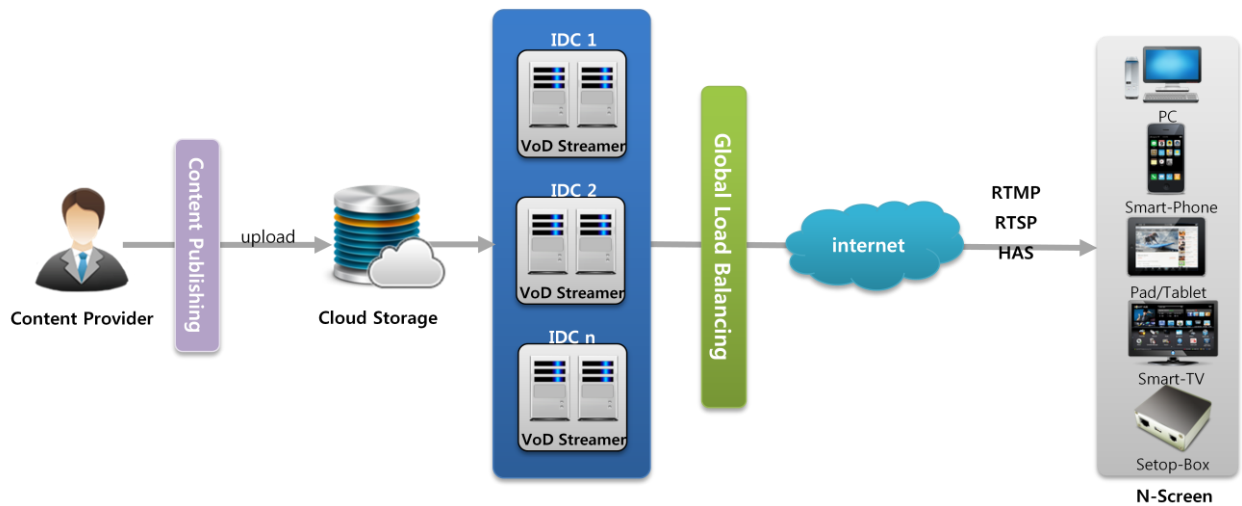
## Specification

Category	Description
Codec	<ul style="list-style-type: none"> <li>• Video: H.264, VP6(Only RTMP supports)</li> <li>• Audio: AAC, MP3(Android RTSP doesn't support.)</li> </ul>
File Formats	<ul style="list-style-type: none"> <li>• MP4 (QuickTime Container - .mp4, .f4v, mov, m4v, m4a, .3gp and .3g2)</li> <li>• FLV (Flash Video - .flv)</li> <li>• MP3 (.mp3)</li> </ul>
Protocol	<ul style="list-style-type: none"> <li>• RTMP</li> <li>• HTTP Dynamic Streaming</li> <li>• HTTP Live Streaming</li> <li>• Smooth Streaming</li> <li>• RTSP/RTP</li> </ul>

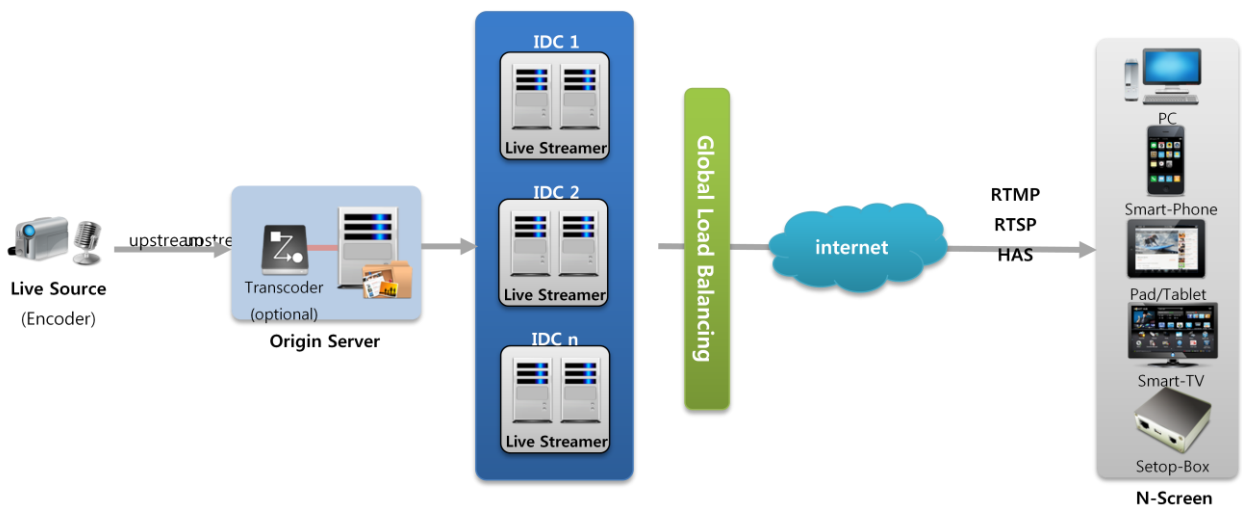
<p><b>Live Encoder</b></p>	<ul style="list-style-type: none"> <li>• TelestreamWirecast Live Encoder</li> <li>• Adobe Flash Media Encoder</li> <li>• Apple's QuickTime Broadcast</li> <li>• TANDBERG Content Server</li> <li>• ElecardCodecWorks</li> </ul>
<p><b>Add-ons</b></p>	<ul style="list-style-type: none"> <li>• Contents Encryption</li> <li>• Access Control</li> <li>• One-Time URL</li> <li>• Live Transcoder</li> <li>• Scheduled Streaming</li> <li>• Analytics &amp; Monitoring</li> </ul>

**Diagram**

**VOD Streaming**



**Live Streaming**



## **Applicable Services**

- High-quality streaming services like e-learning, portal sites, entertainments
- Peak traffic occurrence by the concurrent users in a short period like sports games, on-line news services, etc.
- Stable streaming services like VOD services, on-line cinema, etc.
- Need to increase exposure like on-line advertisement, event promotions, etc.
- Real-time live shows like business presentation, live event promotion, religious events, etc.