

BG LIVE: TECHNICAL SPECIFICATION

The BitGravity CDN resides on Tata Communication's global Tier-1 carrier network. BG Live enables customers to deliver HD quality streams to viewers around the world. The BG Live Service enables delivery of live HD streams to a multitude of devices.

Platforms and Devices Supported

BitGravity, an industry pioneer in providing live CDN delivery, supports all of the widely-deployed and industry-standard protocols such as Apple's HLS, Microsoft's Smooth Streaming, RTMP, RTMPE, RTMPT, RTSP and MPEG2-TS (over RTSP).

Delivery to multiple screens is supported for Apple iOS devices, Google Android devices, RIM BlackBerry, Nokia and Windows phones, as well as laptops, PCs, and STBs. Figure 1 shows details of supported platforms and delivery protocols.

Platforms	Delivery Protocol Supported
iPhone (iOS 3.x, 4.x, 5.x), iPad, iPad2	HLS
Android 2.2, 2.3, 3.x, 4.x	RTSP, Flash over HTTP and RTMP and HLS (Android 3.x, 4.x)
Android 2.1 and lower	RTSP
BlackBerry	RTSP
Nokia (Symbian S60)	RTSP
Desktop	Flash over HTTP and RTMP and others
Roku STB	HLS
Windows Phone 7, 7.5	Microsoft Smooth Streaming

Figure 1. Platforms and delivery protocols supported

Adaptive Bitrate Streaming

BitGravity uses Adaptive streaming (over HTTP and RTMP) that allows the server to adapt to the viewer's bandwidth in real-time. Depending on the network resources available at the end user, the server switches between different bitrates so that end users enjoy a superior viewing experience with fast start times and very little buffering.

Live Platform

BG Live service allows the user to send either (a) single encoded live stream or (b) multiple encoded live streams with various bitrates for Adaptive bitrate delivery to BitGravity's Live platform. The service allows the user to publish protocol specific URLs or take advantage of Bitgravity's user agent detection mechanism to identify the end user device and deliver the appropriate protocol stream.

Key Features

- Ingest: RTMP Push (preferred) and RTSP Announce
- Supported Encoders: Wirecast, FMLE, Tricaster, Inlet and Kulabyte
- H.264 support (recommend Baseline 3.0 with AAC-LC audio)
- Supports a wide range of protocols, platforms and devices
- Dashboard tools that enable
 - ✓ Single and Adaptive bitrate streaming
 - ✓ Quick construction of publishable URLs
 - ✓ Analytics and reporting
- SecureAccess URL protection
- Use of BitGravity's User Agent detection mechanism
- Windows phone support via BitGravity's Silverlight player in the Zune Marketplace



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