

# LIMELIGHT LIVE PUSH INGEST

Limelight Live Push Ingest (LPI) is a service that allows you to push streaming media segments and manifests to Limelight for live distribution, allowing content owners to take full control of encoding workflows and origin bandwidth, with robust content delivery options. Push has been a foundation block since the early days of live streaming and offers advantages over Pull stream. A Push stream is an active process, making it easier to monitor and see traffic going to the CDN. It gives content providers full control over origin bandwidth. As the scale and sophistication of content providers has evolved, the requirement for traditional Push capabilities has grown.

## THE CHALLENGES DELIVERING LARGE LIVE STREAMING EVENTS

During live streaming events, with Pull streaming, content provider origin servers are hit with requests from viewers. As the popularity of many live events grows, especially for live sports, an increasing number of requests to origin may escalate costs or may even exceed the capacity of origin servers, rendering the live stream inaccessible. In addition to scaling issues, a Pull workflow presents more latency challenges than a Push workflow.

## HOW LIVE PUSH INGEST SOLVES THESE CHALLENGES

Limelight Live Push Ingest puts control of origin bandwidth in the hands of content providers, so you can reduce costs for ingesting video to the Limelight CDN. You can manage your own encoding and chunking process, with the potential of lowering latency compared to Pull workflows. By Pushing your content to a specialized ingest server that is peered directly to Limelight’s CDN, you can eliminate several latency inducing steps in your live video production. Limelight Live Push’s direct integration with the Limelight CDN also enables your live events to scale massively with no threat of overloading your content production or origin servers.

## FEATURES

- **Complete Content Control**—Push live HLS and DASH format content from your video encoders to Limelight for CDN delivery, with full control over format, bitrate and codecs.
- **Content Access Control**—Direct integration with Limelight’s CDN means you have access to content control tools like MediaVault and IP white/blacklisting.
- **Compatible with Existing Push Methods**—Allows you to have a consistent workflow across your CDN providers via HTTP PUT and several WebDAV methods.
- **Support of High Definition Resolutions**—Ingest per stream bitrates up to 72Mbps.
- **Compete with Traditional Broadcast Solutions**—Support for chunk sizes as small as 1 second, reducing the latency to less than 5 seconds.
- **Meet Viewer Demands During Peak Events**—Scalable ingest and egress capacity lets you meet needs during large events and unpredictable loads.
- **Rapid-Time-to-Publish**—Objects are available to the CDN edge within 5ms of successful upload.
- **Localized Ingest**—Ingest points within 75ms of your encoder origin.
- **Uninterrupted Delivery**—Intelligent ingest logic and read-after-write consistency for egress ensure stale content and manifests are never delivered when a newer version exists.

- **Support for Scrubbing**—Objects accessible for scrubbing, configurable up to 24 hours.
- **Global Delivery**—Upload to a single ingest point and your object is available for delivery globally.
- **Ingest redundancy**—Primary and backup ingest points are able to fail from one to the other and allow input streams from one or more origins to protect you from first-mile interruptions.
- **Geo-redundancy**—Primary and backup ingest locations must be different geolocations for increased robustness.
- **IP Whitelisting**—Restrict the IP address that a push is accepted from in order to ensure the integrity of the stream.
- **Encryption**—Transport level encryption on ingest with Limelight provided certs.
- **Authentication**—Content must be authenticated in order to upload/push content to Limelight CDN.

## SPECIFICATIONS

- **Maximum Resolution**—Stream your multi-rendition content whether that's SD, HD, 4K, or even 8K!
- **Maximum Bitrate**—72Mbps maximum bitrate per-slot. Slots can be used in conjunction to deliver even higher bitrates (max single rendition bitrate of 72Mbps).
- **Content Availability**—Content is available for egress within 5ms of a completed PUT. Content will be available for a configurable amount of time, up to 24 hours. (Ask about long term storage and Intelligent Ingest)
- **Streaming Formats**—Ingest content in HLS and MPEG-DASH format, as low as 1 second chunks, and with any codec.
- **PUSH Methods**—Deliver content over HTTP PUT with access to some WebDAV methods. Chunked Transfer Encoding (CTE) ingest is enabled for lower latency. CTE delivery to the edge is coming soon.
- **Access Control**—Content is always transited using HTTPS. Authentication and IP Whitelisting on ingest, and CDN access control on egress.

## ABOUT LIMELIGHT NETWORKS

Limelight Networks Inc., (NASDAQ: LLNW), a leading provider of digital content delivery, video, cloud security, and edge computing services, empowers customers to provide exceptional digital experiences. Limelight's edge services platform includes a unique combination of global private infrastructure, intelligent software, and expert support services that enable current and future workflows. For more information, visit [www.limelight.com](http://www.limelight.com), follow us on Twitter, Facebook, and LinkedIn.

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