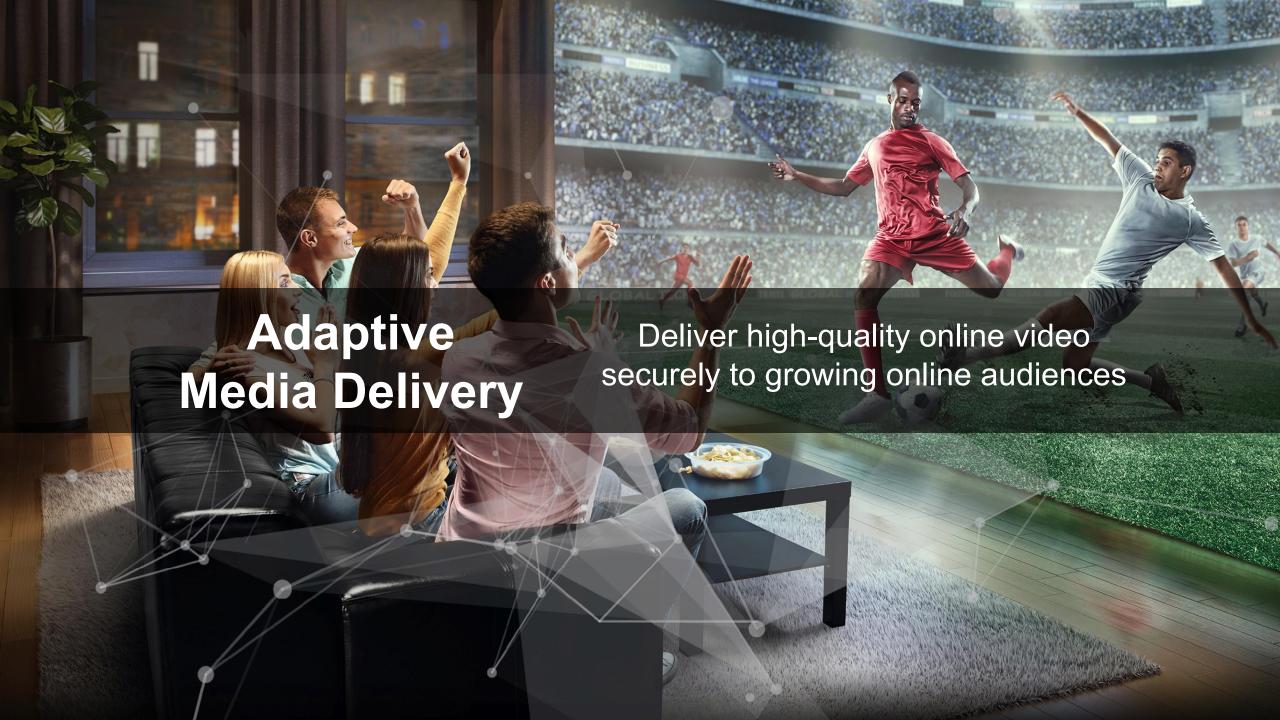
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Media Traffic Continues to Break Records

Hulu

beta launch

444Gbps

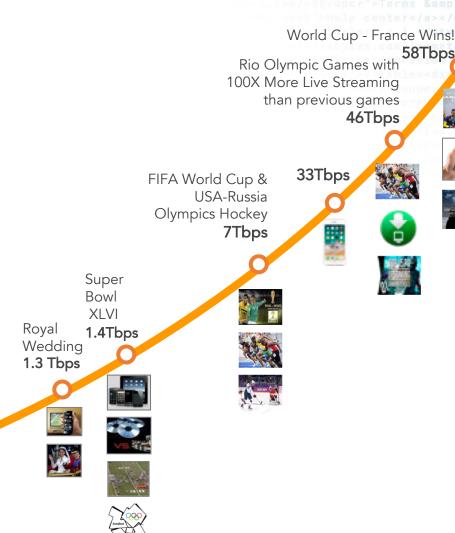
of its online 2008 video service Elections

1.0Tbps

Today's Peak is Tomorrow's Norm

Elections **21Gbps**

VOTE



Experience the Edge

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2000 2001 2002 2003 2004 2007 2008 2010 2011 2012 2013 2014 2015 2016 2017 2018**2019**

Poor Quality Reduces Viewer Engagement

Scientific research* shows poor video quality negatively affects your brand and business.

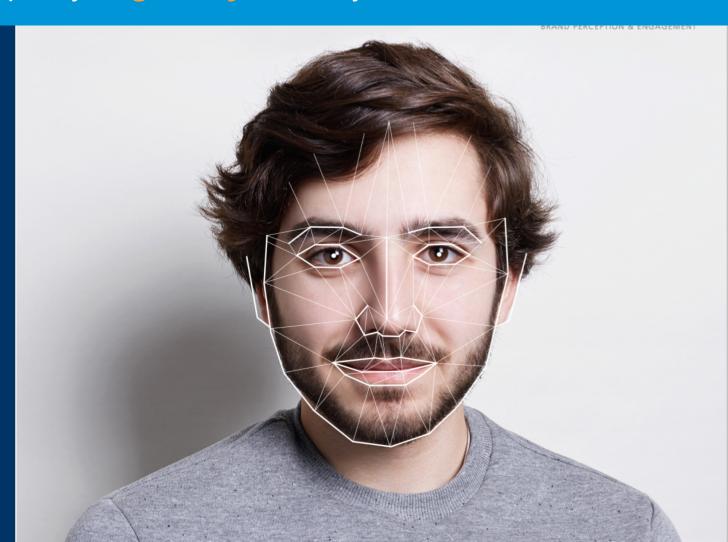
Viewers had the following reaction when they experienced buffering and low-quality streams

20% Engagement

14% Happiness

8% Focus

Results from a research study sponsored by Akamai and conducted by Sensum, a market research and biometrics software firm.



Factors that Impact Quality

Delivery & Playback



Ingest, Encode, Repackaging

Reliable workflows ensures quality

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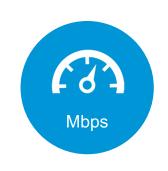
Startup Delays

At 2 seconds viewers begin to abandon



Re-buffering

reduces viewer
engagement an
average of 14 minutes*



Bitrate

Bitrate shifts can increase abandonment rates by > 4X*



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Monitoring

Proactive monitoring and incident prevention ensure high uptime



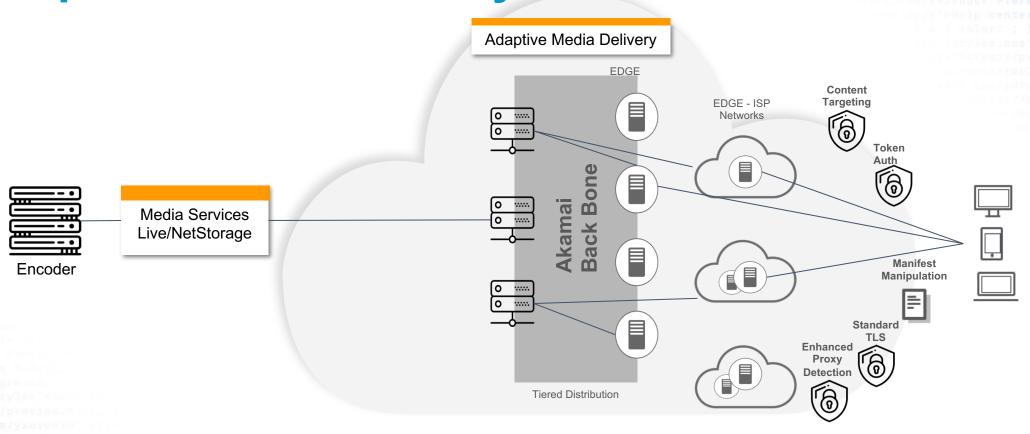
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Adaptive Media Delivery



Adaptive Media Delivery is optimized for Adaptive Bitrate streaming to provide a high quality viewing experience across the broad variety of network types - fixed or mobile - at varying connection speeds.

Benefits

- Capacity and Scale
- Reliability: 100% SLA
- Optimized video playback quality & performance
- Secure communications and premium content



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Support for All Major Streaming Use Cases

Ensure high-quality streaming to viewers anytime, anywhere on any device







Live Streaming

Live streaming refers to online streaming media simultaneously recorded and broadcast in real time to the viewer

Live Linear or Simulcast

Video streaming that has been programmed to start and end at a pre-scheduled time.

"Passive" viewing experience, meaning viewers don't "search and click", programming is sent viewer's way

Video On Demand

Video on demand (VoD) allows users to select and watch video content of their choice. Users have a catalog of available videos to choose from.



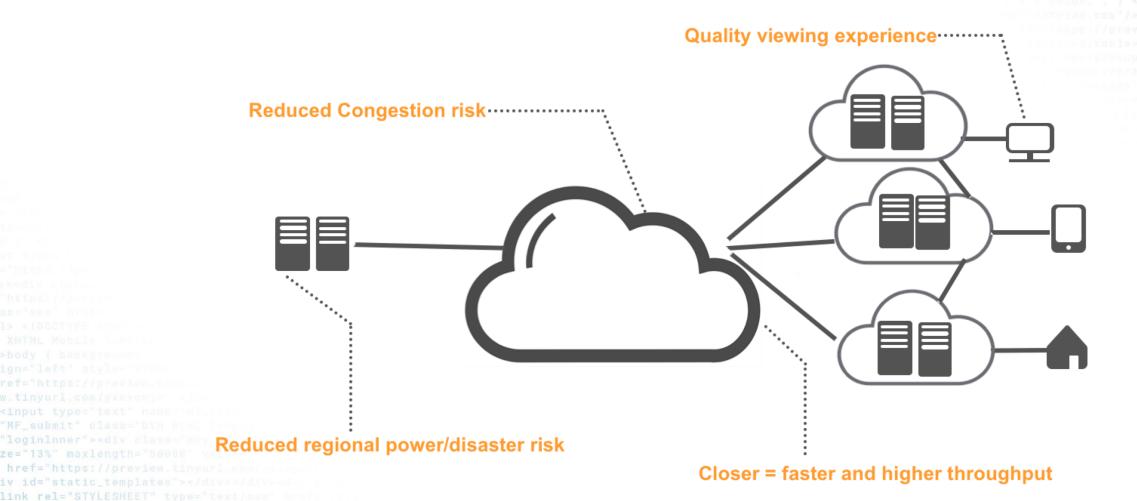
The Akamai Intelligent Edge Platform

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Akamai's Approach to Content Security

Provide a robust content protection solution to prevent content piracy, unauthorized access & maximize monetization opportunities

WATERMARKING

Adding unique, imperceptible markers to determine the source of a content leak

ACCESS REVOCATION

Programmatic way to revoke access to tokens in real time blocking illegit users

06

USER AUTHENTICATION

User authentication using tokens to prevent unauthorized link sharing

MEDIA ENCRYPTION

Securing video delivery by using AES 128 encryption standard

GEO/VPN PROXY RESTRICTION

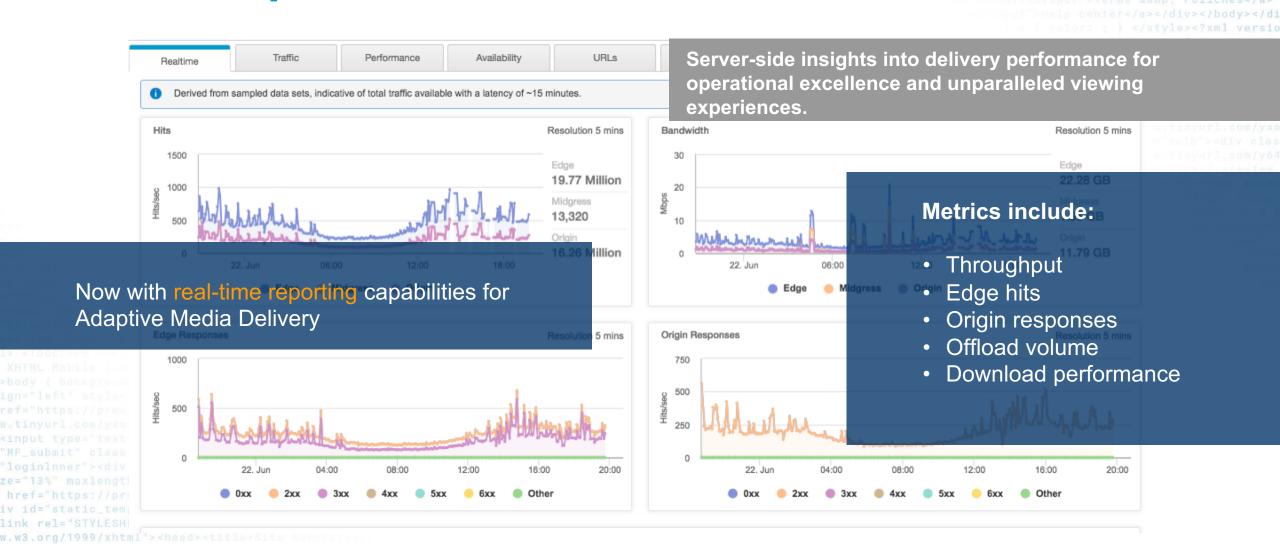
Protect content access from unauthorized regions, devices, VPN/Proxy Services

SECURE COMMUNICATION

Last mile content delivery over HTTPS using Transport Layer Security (TLS)



Media Reports





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Adaptive Media Delivery Features

SCALE/PERFORMANCE

- Akamai Intelligent Edge Platform
- 100% Uptime SLA
- Site Failover
- Advanced Cache Control
- Tiered Distribution
- Adaptive Bitrate Streaming
- Quick Retry
- HTTP/3 Support
- HTTP/2 Support
- IPV6
- Purge and Fast Metadata
 Activation

SECURITY

- Standard TLS
- Enhanced TLS*
- Access Control
- Cloud Origin Authentication
- Enhanced Proxy Detection*
- Media Encryption*
- Protocol Downgrade
- Watermarking Support*
- Access Revocation*
- Content Targeting*

OTHER

- Manifest Personalization*
- Dynamic Ad Insertion*
- China CDN*
- Cloud Interconnects*
- Edge IP Binding*
- Media Reports
- Akamai Control Center
- Event Center
- Open APIs
- Beta Channel
- 3rd Party Origin Support

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Cricket World Cup

2019 Record Breaking Event India vs New Zealand July 10, 2019

25.3 M

Peak Concurrent Viewers 35% increase over IPL final (18.6M) in May 2019

A New World Record!







ITV

Akamai enables ITV to meet consumer expectations with the Akamai Intelligent Edge

"In terms of scale, our go-to-partner is Akamai."

Thomas Thomas Controller of Delivery, ITV

ITV partners with Akamai to:

- Provide unparalleled performance and capacity to deliver the largest online events
- Block VPN traffic during large sporting events
- Secure sites and apps





NBC Sports

NBC Sports partners with Akamai to deliver large scale sporting events to online audiences at the highest quality

"When we look at Akamai, we look at an extension of our team. Akamai has always proven to deliver, time and time again"

Eric Black CTO, NBC Sports Digital & Playmaker Media

NBC Sports partners with Akamai to:

- Distribute online video at scale with the highest quality
- Handle live event monitoring and support





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Thank You
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