



Wowza Streaming Engine™ 4 Technical Specifications

Wowza Streaming Engine is robust, customizable, and scalable server software that powers reliable video and audio streaming to any device.

Streaming Delivery

Multi-Protocol, Multi-Client

Adobe Flash® RTMP
(RTMPE, RTMPPT, RTMPTE, RTMPS)
Adobe Flash HTTP Dynamic Streaming (HDS)

Flash Player
Adobe® AIR®
RTMP-compatible players
HDS-compatible players

Apple® HTTP Live Streaming (HLS)

iPhone®, iPod®, iPad® (iOS 3.0 or later)
QuickTime® Player (10.0 or later)
Safari® (4.0 or later on Mac OS X version 10.6)
Roku® streaming devices
Other HLS-compatible players

MPEG-DASH

DASH-AVC/264-compatible players

Microsoft® Smooth Streaming

Silverlight® 3 or later
Other Smooth Streaming-compatible players

RTSP/RTP

Quicktime Player
Other RTSP/RTP-compliant players
VideoLAN VLC media player
3GPP-compatible mobile devices

MPEG2 Transport Protocol (MPEG-TS)

IPTV set-top boxes
Multicast to any Silverlight-enabled desktop

Live Streaming

Compatible Encoding Inputs

RTMP

Video: H.264, VP6, Sorenson Spark®, Screen Video v1 & v2
Audio: AAC, AAC-LC, HE-AAC (accPlus) v1 & v2, MP3, Speex, Nellymoser Asao

RTSP/RTP

Video: H.264
Audio: AAC, AAC-LC, HE-AAC (accPlus) v1 & v2, MP3, Speex

MPEG-TS

Video: H.264
Audio: AAC, AAC-LC, HE-AAC (accPlus) v1 & v2, MP3, AC-3 (Dolby® Digital), E-AC-3 (Dolby Digital Plus)

ICY (SHOUTcast/Icecast)

Audio: AAC, AAC-LC, HE-AAC (aacPlus) v1 & v2, MP3

Video On-Demand Streaming

Supported File Formats

Video and Audio

FLV (Flash Video - .flv)
MP4 (QuickTime container - .mp4, .f4v, .mov, .m4v, .mp4a, .3gp, & .3g2)
.ismv, .isma
MP3 (.mp3)



Protocols and Payloads Applicable Transport Protocol and Payload Specifications	RTSP	IETF RFC2326
	RTP: H.264	IETF RFC3984, QuickTime Generic RTP Payload Format
	RTP: AAC	IETF RFC3640 IETF RFC3016 ISO/IEC 14496-3
	RTP: MP3	IETF RFC2250
	MPEG-TS	ISO/IEC 13818-1
	MPEG-TS over RTP	IETF RFC2038
System Requirements	Minimum recommended production hardware	CPU: Single Quad Core, 3.00 GHz or better RAM: 4GB Disk: 2 or more in RAID 0 (striping) Network: 1Gbps Ethernet
	High-load recommended production hardware	CPU: Dual Quad-Core or a single Hex-Core, 3.00 GHz or better RAM: 16-32GB Disk: 2 or more in RAID 0 (striping) Network: 10Gbps Ethernet
	Supported operating systems	Windows® (XP, Vista, 7, 8; Server 2003, 2008, 2012), Linux (all distributions), Solaris, Mac® OS X, Unix
	Java (required)	Java Runtime Environment (JRE) 6+ or Java Development Kit (JDK) 6+
Wowza Transcoder AddOn	Decoding (inputs)	Video: MPEG2, MPEG4 Part 2, H.264/AVC Audio: MP3, AAC (LC & HE), MPEG1 Part 1/2, Speex, G.711
	Encoding (outputs)	Video: H.263 (v2), H.264/AVC Audio: AAC (LC & HE)
Wowza nDVR AddOn	Live Stream Caching and Playout	Single content cache for simultaneous playout to Flash HDS, Microsoft Smooth Streaming, and Apple HLS clients
	Live Stream Time Shifting	Pause, Rewind, Forward, Resume to Live
Wowza DRM AddOn	Third-party Key Management Services	BuyDRM™, Verimatrix®, and EZDRM
	Encryption Services	BuyDRM: Microsoft PlayReady® ++ Verimatrix: Verimatrix® VCAS™ ++, Microsoft® PlayReady®
	<i>++ Inc. Common Encryption for MPEG-DASH</i>	EZDRM: Microsoft PlayReady®
	Live and On-demand Clients <i>PCs, Macs, iOS devices, Android devices, Windows phones, game consoles, set-top boxes, & smart TVs</i>	BuyDRM: BuyDRM Players and Smooth Streaming clients Verimatrix: ViewRight® Web clients and Smooth Streaming clients EZDRM Live: Smooth Streaming clients EZDRM VOD: Discretix SecurePlayer™ and Smooth Streaming clients <i>(note: EZDRM does not support iOS or Android)</i>

