Adobe® Media Server 5 Professional

Secure video experiences consistent across devices

Deliver adaptive streams to the widest audience. Secure your premium content with dynamic copy protection for RTMP and HTTP streaming to iOS and Adobe Flash® Player, delivered by a full-featured media origin server.

Broadcasters face many challenges today, with increased device fragmentation and demand for high-quality content. Multi-screen video holds great promise to increase audience size but the video has to be protected, and it needs to be delivered in the right format for the device.

Enhancements in Adobe Media Server 5 Professional answer these challenges, allowing you to reach consumers with high quality video across as many devices as possible. You can now deliver consistent experiences and monetize across Apple iOS, Android, connected TVs, and the desktop—with a simplified workflow and better performance.

New features in Adobe Media Server 5 Professional

Adobe Media Server 5 Professional provides numerous video streaming innovations—over standard HTTP connections as well as RTMP delivery.

- **Dynamic encryption for Flash, Android and now Apple**—Reach a wider audience with a premium video experience consistently across devices, TVs and desktops with a unified protection process.

- **Integration with Adobe Access 4**—Enjoy protected HLS support via a content license technology embedded in the server (Adobe Access 4 licensing server is a separate purchase).

- **Simplified publishing workflows for protected HTTP streaming**—Use the same source media and live streams to deliver and protect full adaptive bitrate experiences to Adobe Flash, Android, and Apple devices.

- **608/708 Closed Caption compliance**—Support all avenues to increase your audience size with full support for closed caption transmission to Adobe Flash and Apple iOS devices such as the New iPad. EIA-608 (line 21) closed caption support meets FCC requirements.

- **Reduced storage and infrastructure costs**—A single MPEG-4 asset is required for each bitrate, and optional real time packaging eliminates the need to prepare content in advance.

- **Standalone offline packaging utilities for HDS and HLS**—Utilize the new HLS packaging utility with encryption to prepare your media content and monetize with a wide variety of protection options including support for DRM with Adobe Access 4. Configure simple business rules such as a 24-hour expiration using the built-in functionality, or expand to more sophisticated rules with a full Adobe Access 4 license server (separate purchase).

- **Enhanced On-Demand stream packaging**—Publish faster, reduce storage costs and save time by publishing video once with full adaptive bitrate support, now with enhanced performance, failover, and fault tolerance—allowing you to deliver more streams reliably from a single server.

System requirements

Supported operating systems
- Linux CentOS 5.8 64 bit

Hardware requirements
- 3.2GHz Intel® Pentium® 4 processor (dual Intel Xeon® or faster recommended)
- 64-bit operating systems: 4GB of RAM (8GB recommended)
- 1Gb Ethernet card recommended (multiple network cards and 10Gb also supported)

Related products
- Adobe Access
- Adobe Pass for TV Everywhere
- Adobe Flash Media Live Encoder
- Open Source Media Framework
- Adobe Flash Media Playback
- Strobe Media Playback

For more information
www.adobe.com/go/ams

For deployment guides
www.adobe.com/go/ams_ devcenter

For encoding guides
http://www.adobe.com/devnet/ video/encoding.html

Key Advantages

Adobe Media Server 5 Professional provides numerous video streaming innovations—over standard HTTP connections as well as RTMP delivery.

Increase your audience—Reach the widest possible audience by delivering protected content to Apple iOS, Android, Adobe Flash Player, and Adobe AIR® applications. With HTTP Live Streaming (HLS) to Apple® iPad® and other Apple iOS devices—plus protected HLS (pHLS) for iOS and protected HTTP Dynamic Streaming (pHDS) for Flash Player—the video experience can now be delivered smoothly and securely to more platforms and devices, with adaptive bitrate support to reach audiences without disruption.

More protection options to secure video across platforms and devices—Adobe Access software optimized for streaming to Flash Player uses new cacheable key delivery and does not require a license server or manual encryption of content. For full Digital Rights Management (DRM) business rules, easily add on full Flash Access compatibility. For Apple iPad and other iOS devices, use encrypted HLS for iOS with secure key exchange and device binding to protect your media.

Simplify video publishing workflows—Adobe Media Server 5 Professional streamlines media publishing workflows with support for On-Demand stream packaging for HTTP streaming. Now your media can be packaged and protected on-the-fly for HTTP delivery for iOS, Android, Flash Player, and connected TVs with full adaptive bitrate support, file caching, and optional encryption.

Take control of your streaming—Turn your media server into a full-featured HTTP origin server with more resilient HTTP origin services. Add fault tolerance, manage QoS, control stream access and protection, access new features quickly, and leverage cloud services by operating your own media origin server for both HDS for Flash Player and HLS for Apple iOS.

Advanced manifest and playlist support—Set-level F4M manifests for Flash Player and Variant M3U8 playlist support enable media players to easily leverage adaptive bitrate streaming, simplifying the production workflows and integration with your content management systems.

Scalable real-time communication—Achieve massive scale for P2P communication across multiple servers with P2P introduction forwarding for RTMFP. Network Address Translation (NAT) for P2P maintains uninterrupted P2P communication when switching between networks. Higher-quality video (H.264) and audio capture inside Flash Player and AIR lets you develop applications for desktop and mobile devices such as business communication tools that leverage traditional VoIP systems.

Optimize network efficiencies for the enterprise—Publish into your corporate or broadcast network with higher quality using multicast. Adobe Media Server Extended 5 supports Source-Specific Multicast (SSM) and Any-Source Multicast (ASM) plus multicast ingest, recording, and re-transmission to add scale and resiliency. Multicast fusion with peer-assisted networking is supported in both Adobe Media Server 5 Professional and Adobe Media Server 5 Extended.

Turnkey solution—Use the latest streaming features out of the box, such as Protected HTTP Dynamic Streaming, multitrack audio, multicast streaming, DVR functionality, and HTTP Dynamic Streaming, and prepackaging of HTTP streams—with the choice of a prebuilt player, hosted player, or full Open Source Media Framework (OSMF) for developing custom players. Enhanced tools for generating multicast addresses and creating manifest files for HTTP streaming simplify publishing workflow and are built right into the server.