

# What's New | Spring 2017

Moving the World's Digital Content at Maximum Speed

Aspera is introducing its most ambitious set of high-speed transfer software and workflow automation solutions ever, including a preview of a new streaming service for high-quality video and data streaming as well as new capabilities across the entire suite of applications and APIs including new SaaS services.

## NEW IN FASP 3.7 CORE STACK - HIGH PERFORMANCE TRANSFER, SYNC AND STREAMING

**The technology foundation of this latest generation of the Transfer Server software includes major advancements in:**

- Core FASP transport performance and security
- Optimized scale-out options that can sustain 20 Gbps+ multi-session jobs across clustered cloud instances
- Full multi-tenant management by access keys
- New capabilities to transmit live video and data streams for universal delivery of any bulk streaming application over the WAN - including live video ingest and distribution, high quality streaming to the browser, and live data ingest for big data analytics

**The core also includes:**

- Enhancements in high-speed file synchronization to both cloud and on premises (block) storage
- Integration of the new high performance file system Watchfolder capability directly into the desktop GUI to support easy and advanced automation of transfer workflows
- Many new features in Autoscale cluster management in the cloud
- Significant enhancements in Direct-to-Cloud storage
- A new event journal service

## NEW IN SAAS FILE TRANSFER AND SHARING

### Aspera Files SaaS

Since its launch in 2016, hundreds of media companies have adopted Aspera's groundbreaking multi-tenant SaaS solution for large content sharing and collaboration between global teams that need to access and store large files and directories on-premises and in any major public cloud storage.

Aspera has introduced more than 30 new Aspera Files features for its Personal, Business and Enterprise editions. Available as either pure pay-as-you-go or volume commitment options directly through the Aspera Store online or directly with Aspera sales, it is ideal for the smallest start-up to the largest enterprise to provide these latest benefits:

- **Files Express** - Activated with a simple on/off toggle, the Files Express mode provides a simple, user friendly interface that makes sending and requesting large files and folders easier than ever before.
- **Expanded Client Experiences** - New client options and features are available via Aspera Drive, Aspera Connect and Aspera Mobile iOS/Android apps to dramatically extend the user collaboration possibilities for desktop, browser and mobile users.

- **Enhanced External Collaboration** - Many new workspace options enable fine-grained control for sending and sharing content with external users, ranging from public, open access policies to strictly private groups.
- **Advanced Management** - New options for read-only home folders, administrative management of user content, transfer usage reporting by workspace, and delegated user management expand the administrative power and ease.
- **Expanded APIs** - Significant advances in the Files API and ATS API allow for easy integration of the platforms into media and enterprise workflows, and 3rd party platforms that need fast, easy, high performance transfer.

### Aspera Transfer Service (ATS)

ATS is a new hosted multi-cloud, multi-tenant software service that enables secure high-speed transfer of large files and data sets to, from, and across cloud infrastructure. Customers can access and use ATS either as a stand-alone platform solution or as a part of Aspera Files to enable the application to connect to and transfer with third-party cloud platforms. Aspera has now launched ATS in the major storage regions in IBM Cloud and Amazon Web Services with early access available for Microsoft Azure and support for Google Cloud soon, all of which offer a host of unique and advanced capabilities for high-speed bulk data transfer and Direct to Cloud storage.

The following are some of the ways customers use ATS:

### **Migrate Large Data To, From, and Across Cloud Storage**

Easily initiate, automate and monitor bulk data transfers to, from and across cloud storage at high speed.

### **Connect Aspera Applications to the Cloud**

Connect existing Aspera applications to ATS to take advantage of scalable cloud storage and on-demand compute resources.

### **Supercharge Existing Applications**

Embed ATS into existing cloud applications to reap all the benefits of Aspera FASP technology – high speed, reliable and predictable transfers with robust security, management and reporting.

## **Core Cloud Technologies**

### **Direct to Cloud and Autoscaling Transfer Cluster Management**

Aspera's high-speed transfer with cloud technology has been expanded to support 14 object stores including new additions: NetApp Cloud Storage, HGST Active Archive, Scality RING and EMC ECS. Improvements to Aspera's Autoscale Transfer Cluster Manager (ATCM) technology provide optimized scale-out transfer speeds of 20+ Gbps per region and 3 Gbps per session with multiple new features in the latest release.

### **Aspera Console for Private Web Based Management & Reporting**

Aspera Files and Aspera Transfer Service subscribers can now manage and report transfers through Aspera Console. The latest version of Aspera Console 3.2 adds support for connecting any ATS subscription or Node within Files to Console via a secure access key for private reporting and management of all transfers.

## **NEW IN FILE SHARING & DISTRIBUTION**

### **ASPERA MAJOR PRODUCT RELEASES**

#### **Shares 2.0**

Aspera Shares is a simple, intuitive web application that enables globally dispersed internal and external users to quickly share large files and whole directories, of any size, on servers located worldwide. With a single web interface, users and administrators have consolidated and secure access to content stored anywhere across various on-premises and cloud storage systems.

In this major release, Aspera introduces Organizations and Projects to enable greater scale and control across diverse projects and user communities in the enterprise. Administrative rights can now be delegated at different levels to help minimize administrative overhead while enabling tiered administrators to create and enforce powerful user and share management controls.

#### **Drive 3.0**

Aspera Drive delivers an in-desktop experience for remote transfer, sync and package exchange from a Windows or OS X desktop. The new Aspera Drive 3.0 brings major new remote collaboration capabilities including:

- Check-in / check-out option to edit and easily replace the master version.
- New remote Share-to-Share transfer capabilities to enable local or global high-speed transfers.
- New OS X Finder Mount capabilities to open and save remote files in the local application.

#### **Faspex™ 4.1**

Aspera's popular application for high-speed, secure file exchange has a number of key enhancements in the 4.1 release including improved enterprise user management, scheduled package sending, enhanced usability and administrative ease. The next generation API uses a pure REST model and allows Faspex to be used as a backend platform for distributed relay of package content between a network of Aspera servers.

## **NEW IN CLIENTS**

### **Command Line Interface (CLI) Unified**

This Aspera CLI package is a new combined installation of the key Aspera ascp, ascp4 and Aspera client binaries, which allow users to transfer with Aspera transfer servers, Shares, Faspex, and Files from the command line.

### **fasp.io Connect**

fasp.io Connect is a new lightweight browser plug-in that allows browser-based applications to stream broadcast-quality video over FASPStream directly to the browser over global wide area networks. The plug-in has a simple XHR Javascript interface for embedding into media streaming workflows. Aspera will preview it with live and on demand streams.

### **Aspera Cargo**

The lightweight application for fast, automatic download of Faspex and Files packages now runs as a system service on Windows and OS X, in addition to Linux, and is the ideal choice for robust distribution of content for VOD, retail, software and other large assets from an Aspera platform. Paired with the new **Aspera Virtual Catcher**, received files are validated and ingested to existing content management workflows.

## **NEW IN MANAGEMENT AND AUTOMATION**

### **Orchestrator 3.0**

This highly anticipated 3.0 release of the web-based application and SDK platform for automating and orchestrating the Aspera transfer environment brings a fresh modern interface designed to speed development and ease administration of the more scalable process engine. New features support team collaboration during workflow design, and enhancements to the Platform APIs help customers programmatically monitor and control workflows at a granular level. The rich set of over 150 third party plug-ins support all Aspera transfer products as well as additional 3rd party media solutions.

### Console 3.2

The latest release of Aspera Console, Aspera's browser management UI for centralized transfer management, introduces the ability to manage transfers on Aspera transfer clusters, including Aspera Files nodes, customer-run Autoscale transfer clusters, and the Aspera Transfer Service. Through the expanded security model, users can authorize Console to report on cluster transfers by configuring cluster access keys. Smart Transfers now also support upload/download from clusters via new node access key authentication, and Console reports now include node access keys for reporting and filtering.

### NEW IN THE ASPERA DEVELOPER NETWORK & APIS

Nearly every layer of the Aspera transfer stack exposes rich new APIs and features combining new authorization, access control, transfer management and reporting capabilities.

- **Aspera Files SaaS API** - New APIs expose all Files resources including user, group and Workspace management, package sending and receiving, dropboxes, Share to Share Transfer, browsing and file management, and Aspera upload/download with flexible OAuth bearer token and JWT authorization for any application to manage and utilize the Files SaaS Platform.

- **Node REST API** - Major advancements in the transfer Node API (for transfer servers and clusters) include new API endpoints for transfer usage reporting, file management events, fine-grained permissions, file locks, previews, transfer status reporting, and transfer authorization via access keys, bearer tokens, and basic auth.
- **FASPManager & FASPStream SDKs** have been updated to expose all of the latest 3.7 capabilities within the transfer core.
- **Connect 3.7**, the popular javascript APIs for embedding Aspera transfer in web applications, offers a native browser plug-in for Chrome, Firefox, Safari and IE Edge with no legacy NPAPI dependencies. New APIs allow for reporting and display of unlimited transfer sessions.
- **Shares 2.0 API** - This new generation Shares has API support across all functions of the application, including Organization, Project and Share Management, Share Authorization, User and Group Management and configuration.
- **Faspex 4.1 APIs** - The new generation Faspex 4.1 APIs with support for content routing, package editing, delayed "go live" date, and new REST APIs has been fully integrated into the new Faspex 4.1.

## NEW PRODUCT PREVIEW

### Aspera Streaming Platform

Aspera is previewing a new streaming platform service with new technology that can support any streaming provider (live video or data from TCP as well as UDP sources) without modification, and across a variety of clients (browser, mobile and desktop) using Aspera Files and Aspera Transfer Service SaaS platforms. This builds on the Aspera FASPStream technology introduced last year used for transporting live broadcast quality video and data feeds with guaranteed delivery rates independent of network round trip time and packet loss, opening the possibility of streaming over global, commodity internet paths with extraordinary quality.

#### Applications include:

- Live broadcast stream ingest as RTMP, HTTP or MPEG-TS for cloud transcoding and redistribution to affiliates
- Live or On Demand HTTP media streaming with broadcast/4K quality over Internet to affiliates
- Aggregation of live logging / IoT data from remote clients to cloud based data analytics, stream processing platforms, and cloud storage

#### The platform consists of the following components and new capabilities:

- Ascp4 Streaming Client, new file and stream transfer binary that sends local FASPStream source feeds (video or data)
- New Streaming Options in the Aspera Files SaaS that allows users to configure Aspera nodes with streaming capability
- New fasp.io architecture and software stack that provides a TCP-like replacement for streaming applications for web video or data streaming

## NEW PARTNER SOLUTIONS



### 5th Kind

5th Kind, a pioneer in its approach to digital workflows, has integrated Aspera into its CORE secure collaboration, communication, and asset management platform to ensure that its users can quickly and easily submit and transfer digital assets securely in and out of its content workflows.



### Automate-IT

Automate-IT is integrated with Aspera Orchestrator to streamline promo and trailer creation workflows for major broadcasters. The single system enables customers to automate, manage and monitor sophisticated Adobe® After Effects workflows, and even process and distribute complex trailers automatically.



### Avid Nexis

Adding to the embedded offerings with Interplay Delivery, Transfer Manager, Interplay MAM and Media Composer, Aspera Sync has been integrated into Avid Nexis, a software-defined storage platform that enables storage virtualization for any media application, for high performance, multi-directional asynchronous Nexis-to-Nexis file replication.



### Envoi

Envoi is a cloud-based platform that provides film and television content owners with a secure and reliable method of distributing content to over the top (OTT) and electronic sell-through (EST) platforms. Envoi has integrated Aspera Drive, Aspera Files, Aspera Transfer Service, and Aspera Orchestrator with its platform to provide a complete end to end solution for small or large enterprises.



### EVS C-Next

EVS has integrated Aspera Connect Server into its groundbreaking C-Next platform, a plug-and-play solution that connects distant sites for full live production collaboration. Aspera's FASP protocol enables customers to ingest large media files that would otherwise be untenable with existing file methods, creating a smooth end to end contribution process.



### Fortium MediaSeal integration with Faspex

Fortium Technologies has integrated Aspera Faspex so that customers can initiate high-speed transfers that will call Fortium's MediaSeal to encrypt and protect files before transit and then distribute packages of files via Faspex at FASP speeds.



### Irdeto Tracemark

As a world leader in digital platform security, Irdeto has partnered with Aspera to seamlessly insert watermarks in real-time as bytes are transferred, with no impact on delivery quality or speed, enabling content owners and distributors to quickly and efficiently deliver content across the world while mitigating the impact of online piracy.



### Pixit Media

With direct integration of Aspera Sync into PixStor, Pixit Media customers can now extend their disaster recovery and backup targets to anywhere in the world, protecting their assets and workflows without being obstructed by geographical distances. It's a combination of the best that the IT industry has to offer with the invention of tools and APIs that are specific to the challenges of media production and delivery workflows.



### Primestream FORK

Primestream has incorporated Aspera into its industry-leading Media Asset Management and Automation solutions to enable the high-speed ingest of raw or finished packages directly into the Xchange production environment, transfers of content between dispersed facilities, and the download and import of content, metadata and markers from Xchange into leading video editing software.



### Silvertrak's Digital Media Room

The integration of Aspera into Silvertrak's Digital Media Room, a simple, platform agnostic digital asset management tool, enables the upload and storage of high-resolution broadcast files so Digital Media Room can support entire broadcast file-based workflows.