

Aspera Sync 1.0

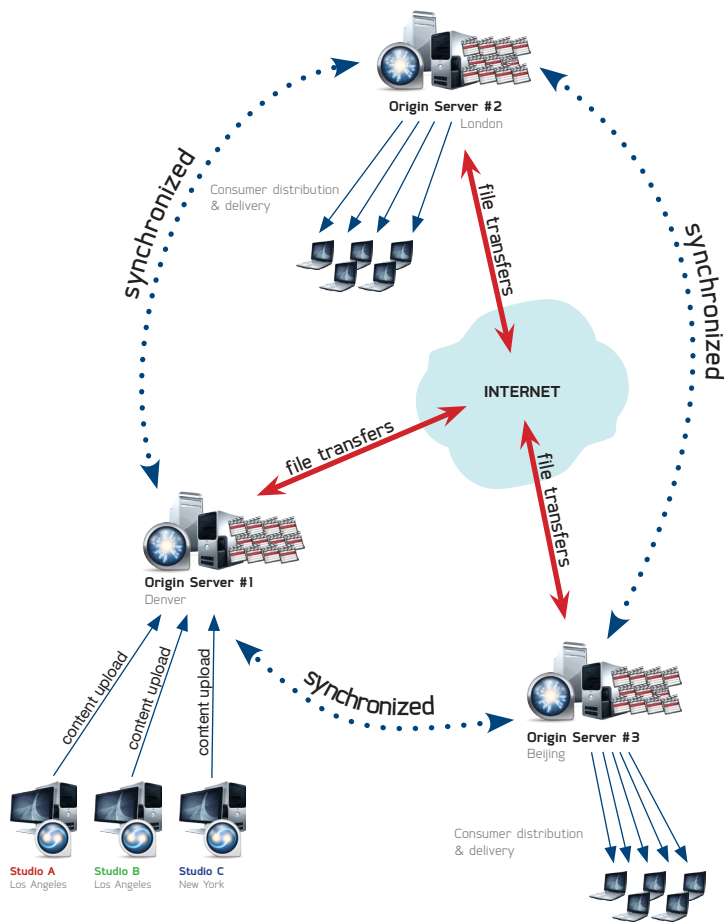
Multi-site file synchronization over the WAN

The new **Aspera Sync** offers multi-directional file replication and continuous synchronization over the WAN, with unprecedented scalability for maximum speed networks, extreme data volumes and huge numbers of individual files.

Aspera Sync can be configured to run continuously for real-time synchronization—leveraging its efficient file change scanning—or trigger replications manually or automatically, to synchronize files of any type, format or size.

Thanks to Aspera *fast*™ technology, you can synchronize files and directories over the WAN regardless of distance and network conditions at maximum speed, with end-to-end security, and with utmost control over bandwidth utilization. Aspera Sync performance improvements over rsync and other synchronization systems reaches **10-100x**, both in stable networks or in the most extreme conditions (500 msec delay, 10% packet-loss).

Deployment example



Functionality at-a-glance

- Multi-directional synchronization of remote files and directories
- One-to-one, one-to-many, and full-mesh synchronization
- Designed for extreme scalability
 - Millions of files
 - Multi-terabyte file sets
 - Multi-gigabit speed
- Fastest speed for bulk-data synchronization over WANs
- Efficient change detection and updates
 - Locally detects changes without having to check with remote systems via file system snapshot
 - Leverages file system notifications for continuous file and directory synchronization
- Flexible transfer and bandwidth management
- Matches the security and reliability standards of the Aspera portfolio of software products
- Policy-based conflict handling*
- Management console for configuration, management and reporting**
- Open architecture for integration with third-party processes and systems

Applications

- Global file sharing, distribution and collaboration
 - Multiple users and locations can access replicated data and share their updates, regardless of location
 - Remote consumer data delivery
 - Continuous updates of software and media
- Real-time mirroring
 - Replicate on-demand or continuously synchronize servers in real time over the WAN, regardless of distance and network conditions
- File archiving and storage
 - Real-time continuous data archiving
 - Centralized, remote back-ups
- Disaster/Recovery
 - Replicate and back up data either online or through cloud storage
 - Automatically snapshot or mirror data to offsite data centers for disaster/recovery
- Server and VM migration, replication, back-up and recovery
 - Minimize setup time, duplication and re-installation of new and existing systems by fast replication of servers and virtual machines
- Automate the replication of actual and virtual servers over wide area networks

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Features

Core features

- Multi-directional synchronization of remote files and directories
 - One-to-one, one-to-many, and full-mesh synchronization
 - Ability to handle uni-directional (local-to-remote or remote-to-local) and bi-directional (local-to-remote and remote-to-local) synchronization between peers over WAN/LAN.
- On-time replication as well as continuous synchronization
 - File system snapshot for fast detection of changes (in absence of file system notification for one-time/scheduled replication where sync doesn't run, so it can't use file system notification)
 - Leverages file system notifications for continuous file and directory synchronization
 - Scalable with the number of files, up to millions of files and multi-terabyte data sets
 - Synchronization engine intelligently picks only modified files for transfer whereas path-renames are handled without incurring a transfer
 - Policy-based conflict handling*
- Fastest speed for bulk-data synchronization over WANs
 - High-performance *fasp* transport technology
 - Multi-gigabit speed

Administration

- Flexible transfer and bandwidth management
- Remote management, monitoring and control through the Aspera Console web application**
- User account and workgroup administration, managed via either Aspera Enterprise Server or Aspera Point-to-Point when deployed as an add-on.

Security

- SSH authentication
- AES-128 data encryption in transit and at rest, FIPS 140-2 compliant
- Configurable security options
- Data integrity verification for each transmitted block

SDK

- Aspera Sync Software Development Kit (SDK) will soon be available to developers via an annual development subscription that includes all available libraries, APIs, development licenses and developer support.
- The deployment of applications integrating Aspera software requires valid Aspera product licenses depending on the type of application.

Licensing & deployment

- Flexible deployment options:
 - Stand-alone product (no need to purchase a separate Aspera server)
 - Add-on to Aspera Enterprise Server or Aspera Point-to-Point (upcoming options)
- Multi-tiered licensing by bandwidth capacity, licensed per seat:
 - One license per server, available as individual or packs of licenses
 - If Aspera Sync is added on to an Aspera Enterprise Server (or Point-to-Point), then the bandwidth capacity for Aspera Sync matches the Aspera server's license
- Platform support
 - Linux only
 - Upcoming releases will support Windows, and other platforms

* Bi-directional replication can be susceptible to collisions if the same path is modified on both synchronizing ends. Aspera Sync offers (in upcoming releases) a configurable policy-based approach, from simply reporting a conflict to giving the user the ability to pick-and-choose a dominant node and specific files.

** Seamless integration into the web-based management console for Aspera Sync-induced transfers. Aspera Sync 1.0 is integrated with Aspera Console's reporting capabilities of file transfer details and statistics. Subsequent releases of Aspera Sync will enable remote setup and configuration of synchronization nodes, from the Aspera Console.

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