

Secure High-Speed File Sharing for Global Engineering Design

THE CHALLENGE

In today's competitive global market, manufacturers and engineering firms are striving to accelerate product design while not sacrificing product quality. New trends like rapid prototyping and concurrent engineering help achieve these goals, but fail to address one of the most fundamental challenges impacting modern product design workflows – sharing large engineering files.

Computer-aided design programs, a staple in product design, produce huge CAD and CAE files. These files along with supporting datasets used in simulation testing, tooling and other engineering related efforts can reach hundreds of gigabytes in size. Sharing these large files with teams in the same facility is not a problem. However, attempting to send a multi-gigabyte file over the internet to an engineering team, production facility, or customer halfway around the world can take days using traditional file transfer tools. Often times, large file transfers fail completely, especially over congested, long-distance networks, resulting in costly production delays.

Manufacturers struggling with failed file transfers resort to overnight shipments of hard drives. This expedites delivery, but places an administrative burden on teams to prepare, ship and unpack data. Not to mention the additional risk exposure. A mishandled package or accident in transit can result in lost IP.

“As a company dedicated to providing better, faster and cheaper services to our customers, we knew we needed a new solution more aligned with our service objectives. We found the answer in Aspera.”

Dan Eng,
Director of IT at Jabil

THE ASPERA SOLUTION

The IBM Aspera High-Speed File Sharing Suite provides an easier, more secure way to send and share large engineering-related files and datasets with teams, customers and business partners located around the world. Flexible and built with robust security features, the software based solution enables engineering teams to send files over the internet at speeds up to hundreds of times faster than FTP and other TCP-based file transfer tools. Delivering on timelines for collaborative review, customer approvals and production is no longer a challenge.

Support Geographically Dispersed Engineering Teams

Save time and maximize efficiency with Aspera's high-speed transfer technology. Engineering teams can send and share large files over global networks at speeds hundreds of times faster than legacy file sharing tools without needing to compress or split files. Real-time file sharing across time zones allows development to move forward around the clock uninterrupted. Deployments easily scale to support any number of users and locations.

Reliably Deliver Files to Facilities Anywhere in the World

Optimized to move data across any type of network, Aspera software delivers files with 100% reliability anywhere in the world including manufacturing regions known for high packet loss and network congestion (e.g. Asia, S. America, etc). Features such as auto-resume from point of failure and highly predictable delivery times ensure files are received where and when they are needed. Teams no longer need to spend time monitoring data transfers and can better schedule development and production activities.

Protect Sensitive IP with End-to-End Security

Don't compromise the security of valuable IP with insecure transfer technologies or hard drive shipments. Before any data is sent, IBM Aspera authenticates and authorizes the user. Files and datasets can be encrypted in transit and at rest on the receiver's end. Once received, data integrity is verified to protect against man-in-the-middle, replay, and UDP denial-of-service attacks. Robust reporting dashboards and admin controls let you monitor and control who has access to sensitive data and where it's being shared.

Simplify Collaboration with User Friendly File Sharing

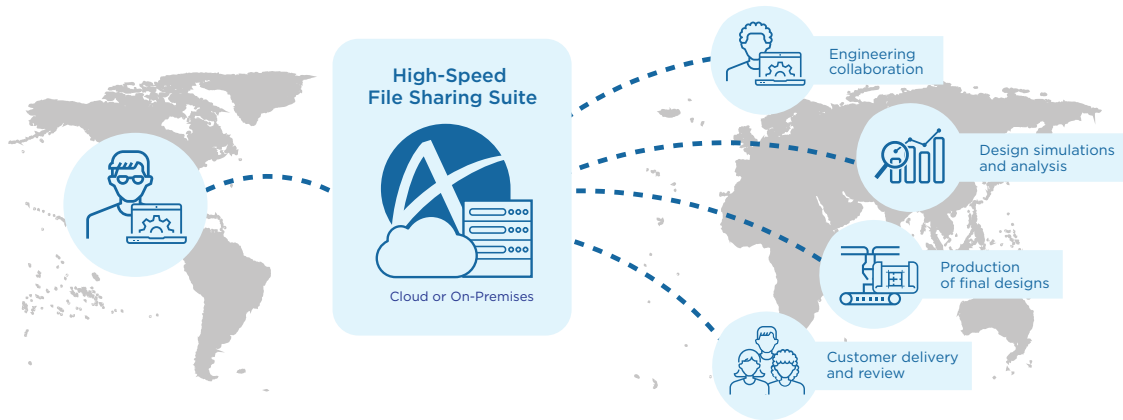
Engineering teams, customers and business partners can access designated folders and share files through an intuitive, easy-to-use web-based interface. Additionally, packages of files can be sent email style to select individuals. System generated notifications let teams know when new files have been shared. Support for mobile, desktop and browser experiences allow teams to access data from any device.

KEY BENEFITS

- **Engineering Efficiency** – share files 10s to 100s of times faster allowing global engineers to provide feedback in real-time and rapidly iterate designs.
- **Mitigated Risk** – full transfer visibility, management capabilities and enterprise-grade security reduce the risk of lost IP
- **Customer Satisfaction** – expedite delivery of designs to customers around the world for review cycles
- **Speed of Production** – deliver large design files to production sites within tight SLAs with fast and reliable file sending, even to countries with limited bandwidth or congested networks
- **Cost Savings** – avoid CapEx build-outs and fully utilize existing bandwidth and infrastructure to see performance improvements

HOW CUSTOMERS USE THE SOLUTION

The IBM Aspera High-Speed File Sharing Suite provides fast, secure and reliable global file sharing across the entire engineering and product design workflow.



FEATURES AND CAPABILITIES

High-speed sharing of design files regardless of file size, network conditions, or transfer distance

- Aspera software is unaffected by network latency and packet loss unlike TCP based solutions
- Fully use available bandwidth to move data up to 100s of times faster than FTP and MFT tools
- 100% reliability with auto-resume from the point of interruption
- Real-time bandwidth control prevents network congestion

Flexible deployment models to best fit your business

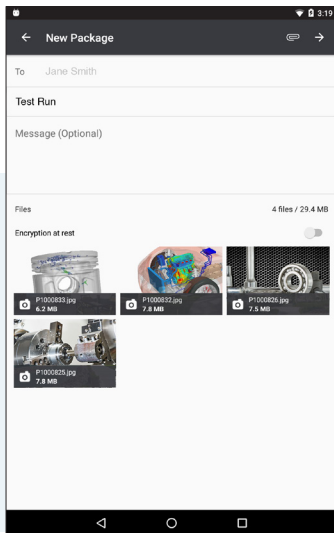
- Software based solution with native support for on-premises, cloud or hybrid environments
- Broad support for desktop, mobile and web-based file sharing allows teams to upload and download from anywhere on any device

Comprehensive administrative control and security features

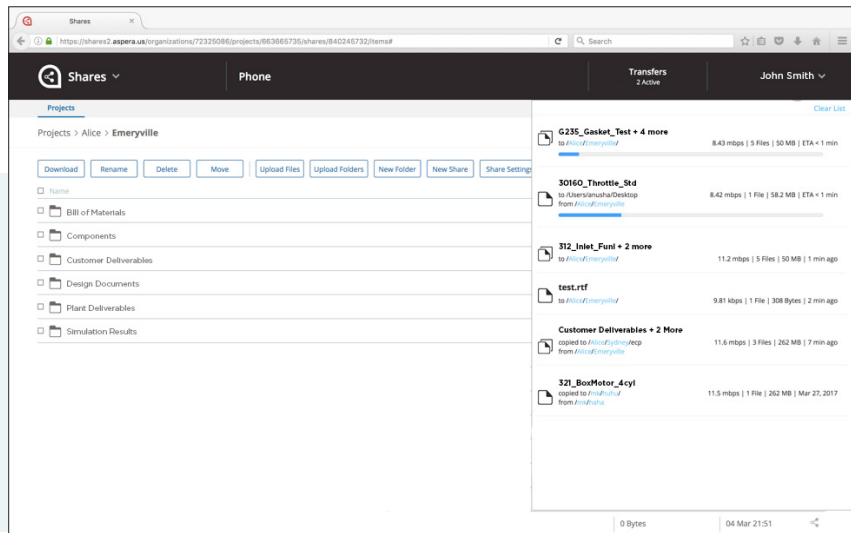
- Robust user access controls with secure authentication enable admins to limit who can access, download and share sensitive data
- AES-128, 192, and 256 data encryption in transit and at rest
- Detailed transfer reporting, logging and real-time transfer control
- Customizable security options (e.g. session timeouts, deactivation after failed logins, etc)

Full suite of file sharing capabilities for any level user

- Intuitive folder-based file browsing and management for sharing files with global teams
- Easy-to-use email-style workflows for sending files directly to specific users internally or externally
- Alerts notify users when new files are available
- Powerful search, filtering, and sorting make it easy to find files



Mobile apps so teams can share content from any location



Easy to use folder-based file sharing from the desktop or browser

About Aspera

Aspera, an IBM Company, is the creator of next-generation transport technologies that move the world's data at maximum speed regardless of file size, transfer distance and network conditions. Based on its patented, Emmy® award-winning FASP® protocol, Aspera software fully utilizes existing infrastructures to deliver the fastest, most predictable file-transfer experience. Aspera's core technology delivers unprecedented control over bandwidth, complete security and uncompromising reliability. Organizations across a variety of industries on six continents rely on Aspera software for the business-critical transport of their digital assets.

Learn more at www.asperasoftware.com/engineering and follow us on Twitter @asperasoftware for more information.