

# Manufacturing

To stay competitive, manufacturers are investing in new innovative technologies including digital supply chains, connected production lines and predictive analytics. Efficiently and securely moving and sharing the mountains of digital information generated by these technologies can be a real challenge. Traditional data transfer tools such as FTP are failing to keep up, resulting in increased costs and lowered productivity.

As the leader in bulk data movement, IBM Aspera® overcomes these challenges with a groundbreaking way to securely and reliably move data at the fastest speeds possible.

## How Aspera Delivers Value

Aspera software and cloud solutions enable manufacturers to securely and reliably move, share, sync and stream large files or datasets at maximum speed over standard internet connections – anywhere in the world, regardless of file size, or network conditions. The following are some key examples of how Aspera solutions have been used in engineering and manufacturing.



### Fast Global File Sharing for Engineering Collaboration

Accelerate product development with fast, secure and reliable CAD and design file sharing across global teams. Easily integrate fast file transfer into existing collaboration tools.



### High-Speed Cloud Data Ingest for Predictive Analytics

Ingest massive amounts of siloed data (e.g. manufacturing logs, logistics data, customer data, etc.) in cloud analytics platforms to better predict and minimize defects, QA issues, supply chain challenges, and more.



### Large Data Migration for Simulation Testing

Easily move or stream terabytes of product, sensor, and test data to remote high-performance computing sites or cloud clusters for critical product simulations.



### Syncing Code Repositories for Follow-the-Sun Development

Synchronize large source code repositories, build images and design artifacts at high speed to teams in different time zones, keeping software development moving forward around the clock.



### Reliable Retrieval of Customer Data for Product Support

Improve technical support turnaround times with quick, reliable retrieval of log files, databases and other large support-related data from remote customers.



### Fast Mobile Transfers for Reporting from the Assembly Line

Integrate reliable, high-speed HD video and data transfer into mobile apps for improved reporting from remote teams conducting inspections and maintenance, resolving issues and reporting inventory. Remove production delays caused by slow reporting.

## The Aspera FASP Advantage

### Fast

Fully utilize available bandwidth to move data faster

### Reliable

Guaranteed and predictable deliveries

### Flexible

Support for on-premises, cloud & hybrid

### Secure

Robust data encryption and security

### Controllable

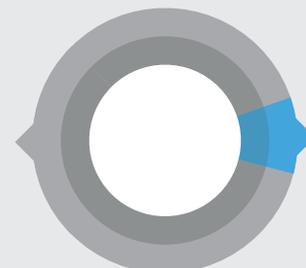
Real-time transfer control, reporting and congestion avoidance

### Cost Effective

Centralize datacenters, reduce infrastructure footprint and streamline management of the transfer environment

Moving a **10GB file** on a **100 Mbps line** between the US and Europe

LEGACY  
15-20  
HOURS



ASPERA  
14  
MINUTES

**Aspera moves data 100X+ faster than FTP**

## Customer Success Stories

### Jabil Accelerates Global Product Development with Large CAD File Sharing

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#### Challenge

- Jabil, one of the world's largest manufacturers with over 30 million square feet of production space, needs to exchange large design files, such as CAD models and circuit diagrams, with global customers and engineering teams
- Their existing file transfer solution proved to be slow and unreliable in addition to imposing file size limits that required users to spend hours splitting up and compressing files
- Transfers across their network of 2,500 users could take days, bringing product development and production to a halt

#### Aspera Solution

- Jabil replaced their legacy tool with Aspera faspex On Demand to quickly and reliably upload and download large design files to and from the IBM cloud
- With Aspera, Jabil has substantially improved transfer speeds, with throughput now reaching 95 Mbps – in one test Jabil moved 3,400 files totaling 124GB of data across global internet connections in under 5 hours
- Additionally, files no longer need to be processed, saving teams precious time and accelerating design cycles

### NetApp Reduces Customer Support Response Times with Fast Global Transfers

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#### Challenge

- NetApp's Customer Success Services (CSS) provides around-the-clock support for users of their data and storage products
- To assess and solve technical issues, the CSS team needs to occasionally retrieve customer log files reaching 130GB in size
- Web-based and FTP transfer tools proved highly unreliable when moving files of this size, resulting in a poor customer experience and requiring NetApp to incur the expense of flying engineers to customer sites to retrieve data

#### Aspera Solution

- After a successful evaluation, Aspera Connect Server and Point-to-Point client were integrated into NetApp's customer web portal and workflow, leveraging complex algorithms to route files from customer sites to the right CSS team at record speeds
- Global customers can now upload files to support teams over 10 times faster, avoiding the frustration of slow speeds and accelerating issue resolution
- With Aspera, NetApp no longer needs to build local data ingest sites, saving them \$1 million

### Automaker Keeps Production On Track with High-Speed Delivery of Software to the Line

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#### Challenge

- R&D teams for a global automaker need to send vehicle software updates from their engineering offices in Germany to production facilities in S. America
- Frequently, flash updates need to be loaded on vehicles already progressing down the assembly line
- Existing FTP file transfer solutions struggled to move the large software updates over global internet connections, resulting in manufacturing delays in excess of 45 mins

#### Aspera Solution

- The vehicle manufacturer replaced their FTP software with Aspera Shares, allowing engineering teams in Germany to upload vehicle flash files just in time for their manufacturing peers in S. America to update vehicles already progressing on the line
- Aspera software enables the manufacturer to fully leverage their available bandwidth, achieving file transfer speeds 90x faster
- With transfers from Germany arriving in minutes, costly production delays are now avoided

**Questions?** Learn more at [www.ibm.com/aspera](http://www.ibm.com/aspera) or contact Aspera Sales at [aspera-sales@ibm.com](mailto:aspera-sales@ibm.com)