

Aspera High Speed File Transfer Solution

SoCronic Technologies Pvt Ltd

SoCronic- VLSI Designing Service and Embedded Software Development Company, offers complete Spec-to-Silicon turnkey solutions in Logic Design, Physical Design, Analog Mixed Signal Design, Layout and Software Engineering. The clientele are technology companies located in USA, EU and China and also their subsidiary design centres in India.

Features

- Extreme Scalability
- Powerful Security and access Model
- Easy to use web and command line interface
- Location Independence
- Monitoring and alerts
- Industry standard protocols - REST, SOAP or JavaScript
- FASP Manager API for Java, .NET, and C++ to embed into your client, server, and embedded applications

Value statement

Provide a pleasant experience in eDelivery of their release database to the customers, across geographies (including China)

Objective

SoCtronics, wants the clients to download contents from the web application at a faster rate.

To integrate **Aspera's** FASP® transport technology into their web applications and leverage the power of **Aspera**.

Challenges

Current FTP based software delivery solution has limitations in scaling up to the needs, even under 500 Mbps dedicated bandwidth.

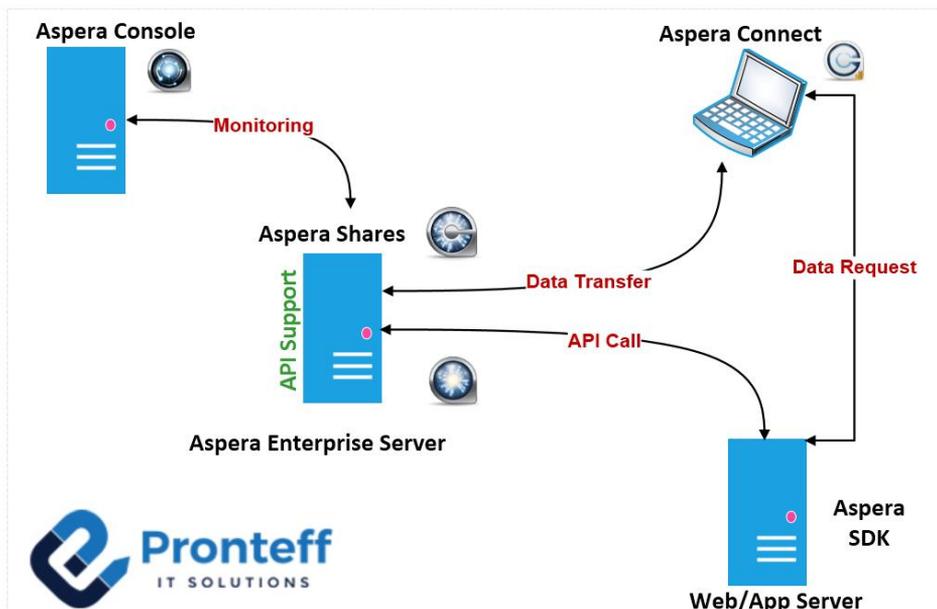
Average size of the build is about 100 GB, 20 concurrent users and growing.

How IBM Aspera helped?

Solution - Global Browser-Based Data Distribution

IBM Aspera Shares with core transfer server capabilities enabled SoCtronics to ingest or share content in the form of large files and directories in multiple locations with external customers and partners. A single web interface consolidates browsing across all shared content and a powerful and flexible security model provides a single management point combining authorization, user management, and access control.

Architecture



Testimonials:

"Working with Pronteff IT Solutions, is so far a great experience. Impressed with the quality of work, timely responsiveness and subject expertise has eased burden on my shoulders. Would prefer to recommend Pronteff for your needs on IBM Aspera."

- Narsireddy Annapureddy,
Director (SW)

Software Components Used

IBM Aspera Shares

IBM® Aspera® Shares is a web application that provides a simple and intuitive way for companies to share content in the form of files and directories, of any size, within their organization or with external customers and partners.

Key benefits

Consolidates content spread across multiple, geographically-dispersed locations Enables end users to quickly and easily locate and download the right content Supports extreme scalability by decoupling content stores and transfer nodes

FASP Security Model

IBM® Aspera® FASP®, have built-in security for data transfers using the standard open-source OpenSSL toolkit.

Each transfer job begins by establishing a secure, encrypted session between the endpoints, using the standard secure shell (SSH).

SSH is invoked with its default symmetric cipher option for session encryption, **3DES (128 bits)**. SSH supports other ciphers for session encryption (e.g., **128 bit AES**, **Blowfish**, **CAST128**, **Arcfour**, **192 bit AES**, or **256 bit AES**) and command line invocations of **Aspera scp** may request these alternative ciphers if supported by the peer ssh server.

The particular algorithm used to negotiate the session encryption key depends upon whether **SSHv-2** or **SSHv-1** is used. **SSH-v2** is the default for the sshd service built into **Linux**, **Solaris** and **Mac OS X**

Aspera Console

Aspera Console is a web-based management application that provides complete visibility over your Aspera high-speed transfer environment, enables centralized control over transfers, nodes and users, and maintains comprehensive logging for customized reports and auditing.

Key benefits

Consolidated, single-point management of transfer activity and bandwidth utilization across your entire Aspera network.

Open architecture for integration with business process management and content transformation tools

Aspera Connect Server

Built upon Aspera Enterprise Server technology, the Aspera Connect Server is the ideal solution when files and directories are exchanged with a large number of users over the WAN.

Key benefits

Robust and reliable transfers with automatic retry and resume of partial or failed transfers.

Highly scalable, with thousands of concurrent transfer sessions and multi gigabit-per-second aggregate throughput.

Maximum control, even resource usage, and fastest transfer times with configurable options for controlling the intra-file 'splitting' over the parallel sessions.

Aspera Software Development Kit (SDK)

Aspera strives to help organizations move big data around the world at top speeds regardless of their preferred implementation method. That's why we have created a comprehensive SDK that enables integration of Aspera's FASP® transport technology into virtually any web, desktop or mobile application.

The Aspera SDK offers a complete set of Application Program Interfaces (APIs) with supporting documentation and sample code to help developers integrate Aspera technology into applications as a replacement for traditional TCP-based protocols such as FTP or HTTP.

SDK Highlights

- Easily integrate Aspera FASP® transfer technology into any applications
- Leverage the Aspera FASP Manager API for Java, .NET, and C++ to embed Aspera transfer technology into your client, server, and embedded applications
- Transfer byte-stream data using Aspera FASPStream to enable in-memory access