

Introduction and Capabilities HTTP- Gateway



Agenda



Aspera Review



HTTP-Gateway



Features



Future



Q & A



Speakers



Dipak Chocha

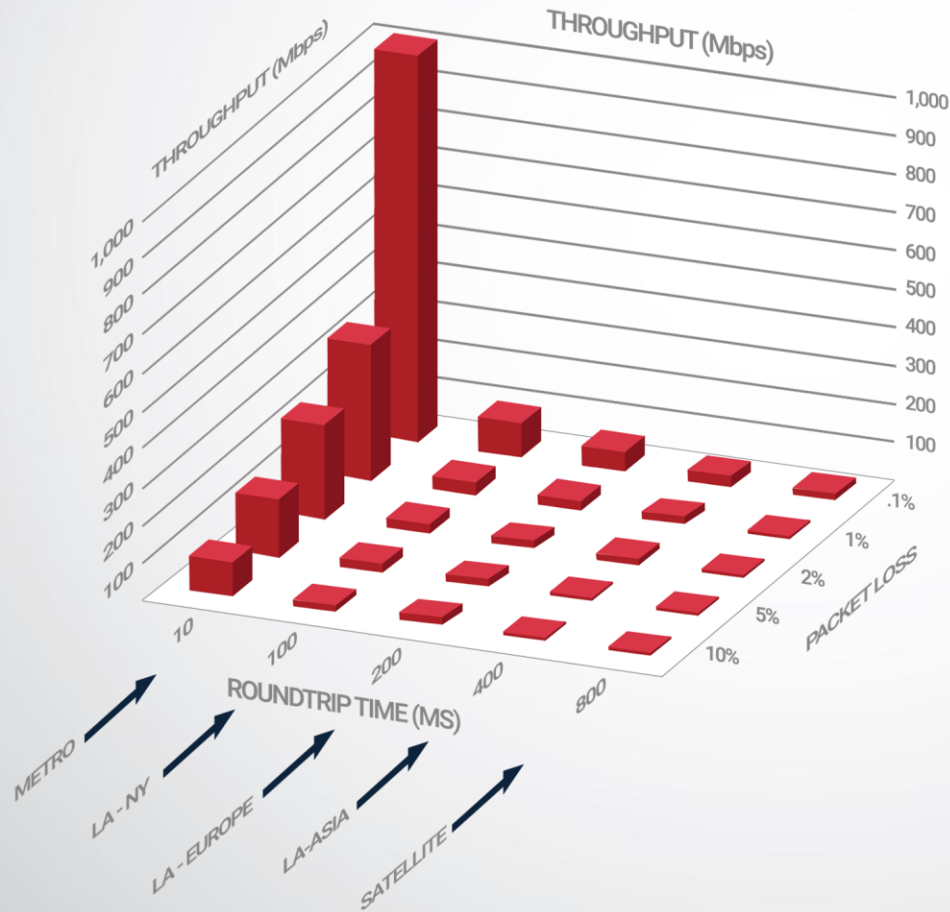
**EVP, Sales & Business
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**Head of Engineering
@ IBM Aspera**





Note: Table displays throughput degradation of TCP transfers on a 1 Gbps network as estimated round trip time and packet loss increases with distance.

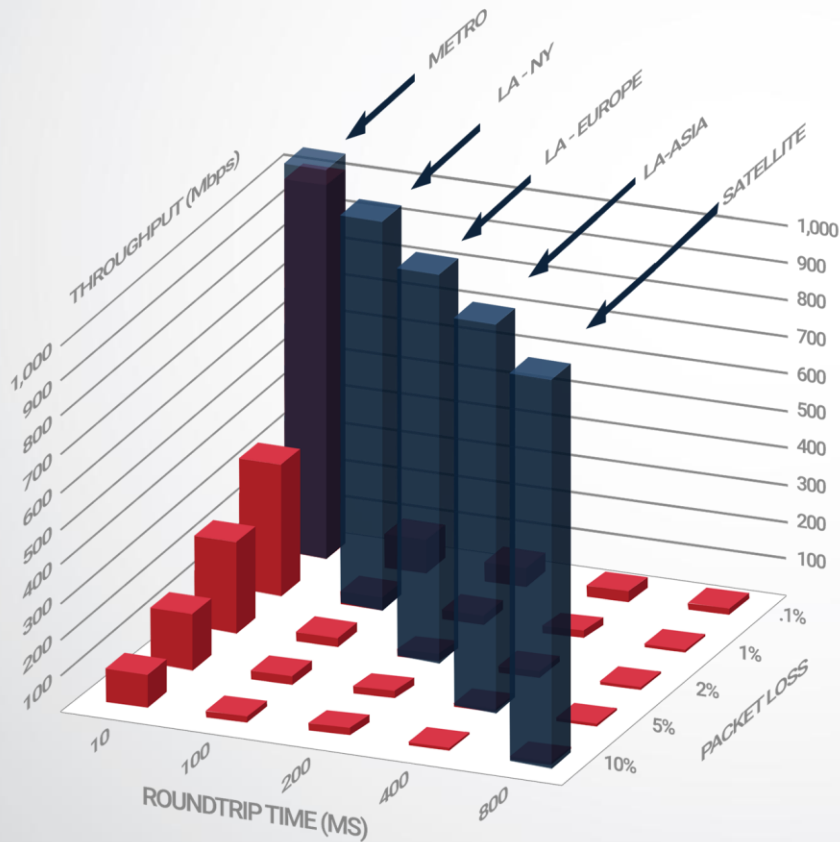
Challenges with TCP and Alternative Technologies

- Distance degrades conditions on all networks
- TCP performance degrades severely with distance
- TCP does not scale with bandwidth
- Alternative technologies



FASP® - High-performance Data Transport

- Maximum transfer speed
- Congestion avoidance and policy control
- Uncompromising security and reliability
- Scalable management, monitoring and control



Note: The relative bandwidth utilization for FASP transfers over a 1 Gbps network are immune to latency (distance) with very little effect from packet loss.



Aspera Software Portfolio

Access & APIs

Web, Desktop, Email,
Mobile, CLI, Custom App
SDKs, REST, Java & more,

Delivery

Collaboration

Synchronization

Automation & Integration

Real-time visibility & control

Secure high-speed transfer clusters connecting
public, private & hybrid clouds



Any Data Size, Distance, Network

FASP Patented High-Speed Transport



Any Storage: Block, Object, On Premises, Cloud

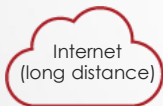


Any Data: Files Streams

Aspera Transfer



FASP



HSTS
(Faspex/AoC,
etc.)



Storage



FASP usual
use case

Typical Aspera transfer - user
leverages "Connect" application
to initiate and complete transfer
(Client/Server relationship)



Problem

If Aspera Connect cannot be
leveraged by user - no Aspera
transfer possible



No Transfer
Possible



HSTS
(Faspex/AoC,
etc.)



Storage

Introducing HTTP Gateway



A Web Service that “bridges” an HTTPS transfer and a FASP transfer



Allows HTTPS uploads and downloads, from a Web Browser **without** Connect



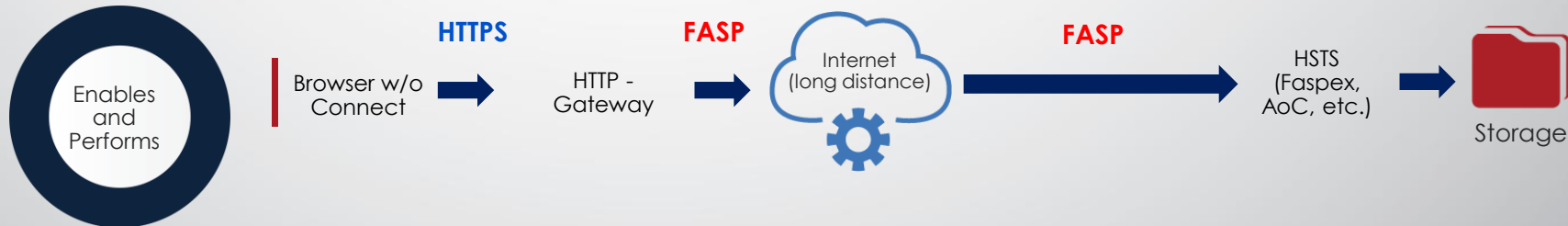
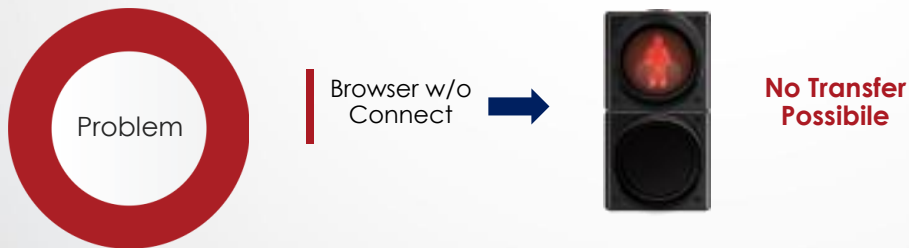
Acts “transparently” between a modern Web Browser and Aspera HSTS or AoC (SaaS)



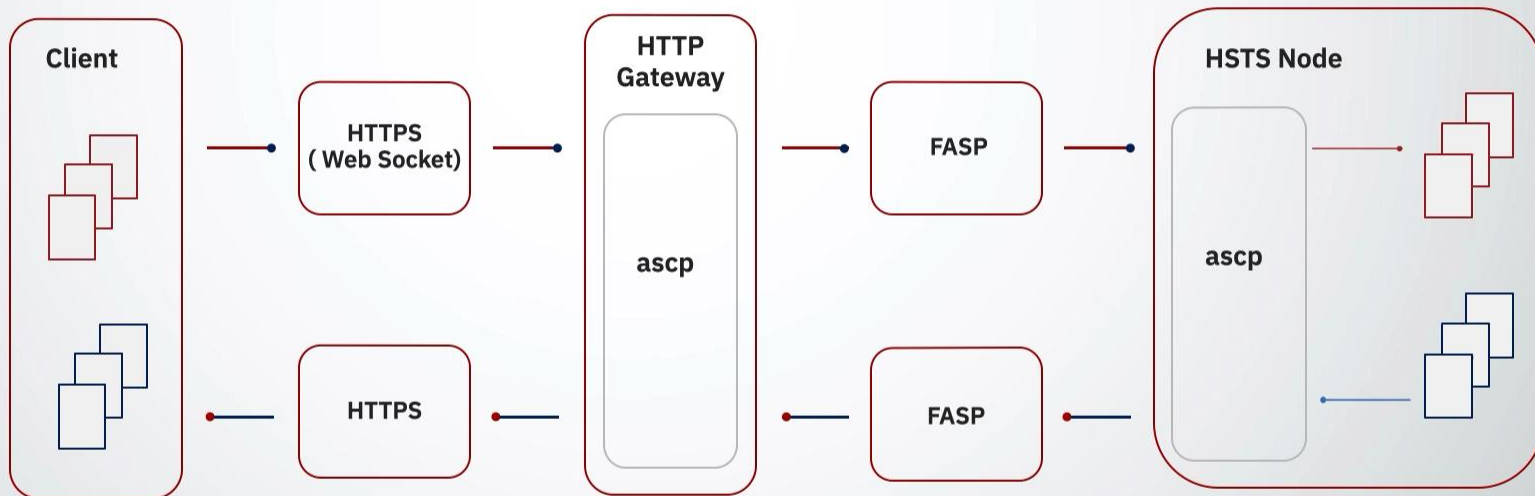
Leverages FASP under the hood - secure and accelerated transfers



What does it Enable?



How Does It Work?



- *No Data storage required at Gateway location. Conversion of protocols occurs in memory.*
- *HTTPS for user - FASP from Gateway to HSTS*



Demo



HTTP-Gateway with Faspex 4 and AoC



Aspera Console Progress and bandwidth
reporting & Control

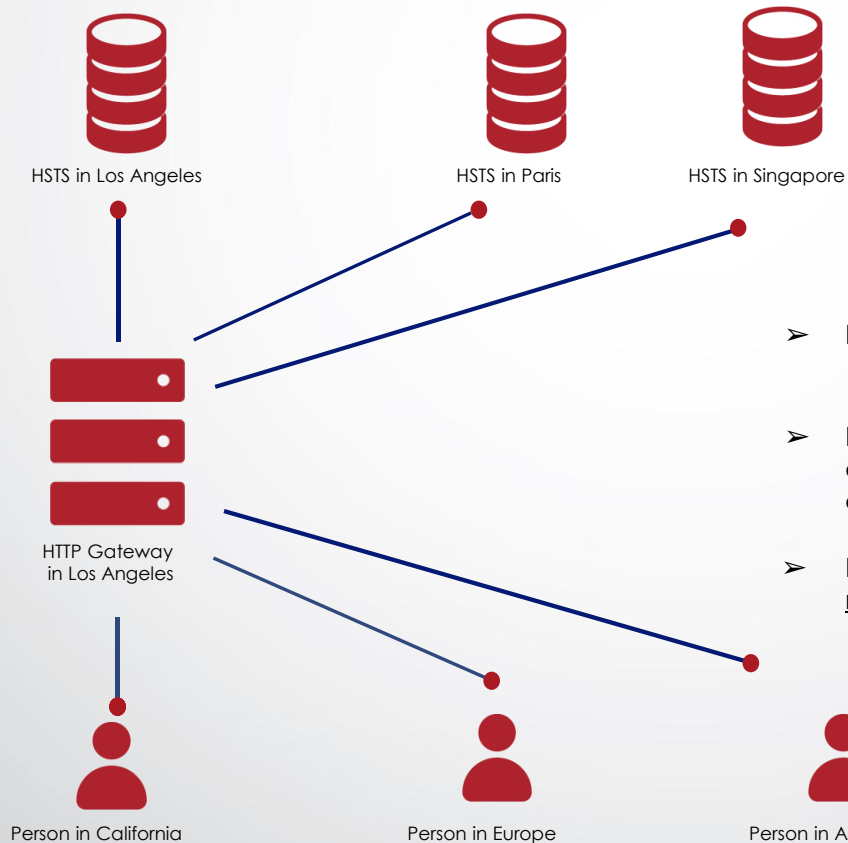


Features

- **Download a single file** (uses Web Browser Download Manager)
- **Download a package with one or multiple files as a single ZIP file** (uses the Download Manager and preserves the directory structure)
- Upload one or multiple files and show progress in the Web UI
- Monitor & Manage HTTP-Gateway based transfers using Console
- Supports Filename Obfuscation and **Supports Encryption-At-Rest**



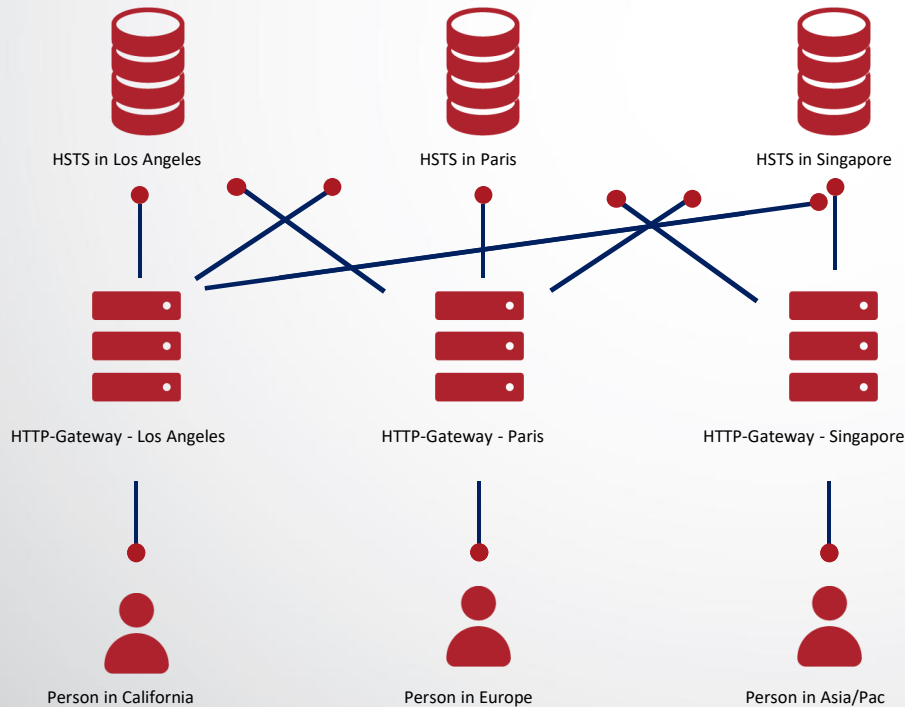
Basic Deployment Model



- HTTP-Gateway can work with any accessible AoC (SaaS)/HSTS nodes
- Distance between HTTP-Gateway and AoC (SaaS)/HSTS does not matter (using FASP) - long haul transfer capabilities
- Distance between Clients and HTTP-Gateway DOES matter (using HTTPS)



Ideal Deployment Model



- Clients/Users would connect to closest HTTP-Gateway to enable transfer workflows.
- Any HTTP-Gateway can work with any accessible HSTS/HSTE node
- Geographically dispersed HTTP-Gateway is not an issue from Aspera Licensing due to the *Aspera Enterprise Licensing Model*



Looking Forward



Ability to leverage with
Aspera on Cloud



Overall Performance
Upgrades



Upload Folders with some
browsers



Ability to leverage with
Faspex.next



One more thing....



Q&A



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For more information and documentation,
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