

# Moving Data and Distributing Data

**Storage Architectures for Digital Preservation**  
**September 23, 2009**

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## Signiant Software at Library of Congress

### *Contributing partners*



### Challenge

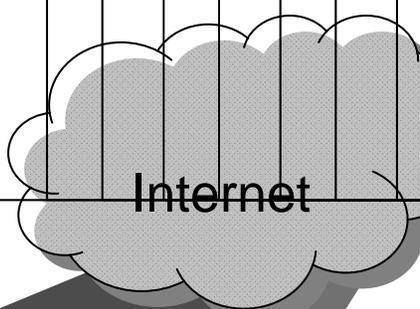
- Large amounts of data
- Reliability and timeliness
- Accountability for delivery
- Ability to scale to petabytes

# Signiant Software at Library of Congress

## Contributing Partners



Digital Asset Management



DIGITAL  
PRESERVATION

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AUDIO-VISUAL CONSERVATION  
at The LIBRARY of CONGRESS

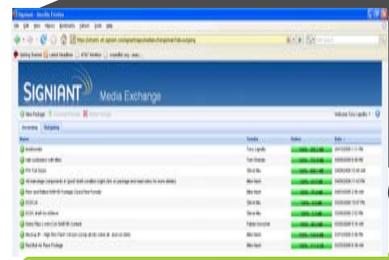


Library of Congress Digital Archive Projects

## Solution – Signiant Software

- Automatic digital ingestion from Contributing Partners
- Signiant Media Exchange for uploads via web browser from occasional users
- Signiant workflow automation for updates of DAM system for accountability

## Occasional Contributors



## Signiant Software at Library of Congress

*Contributing Partners*

*Occasional Contributors*



### Results with Signiant Software

- Reliable, proven, automated collection of digital files into the Library
- Proof and notification of delivery
- A model for scaling to terabytes of ingested content

During a single week in June :  
1.8 million (24 TB) files moved

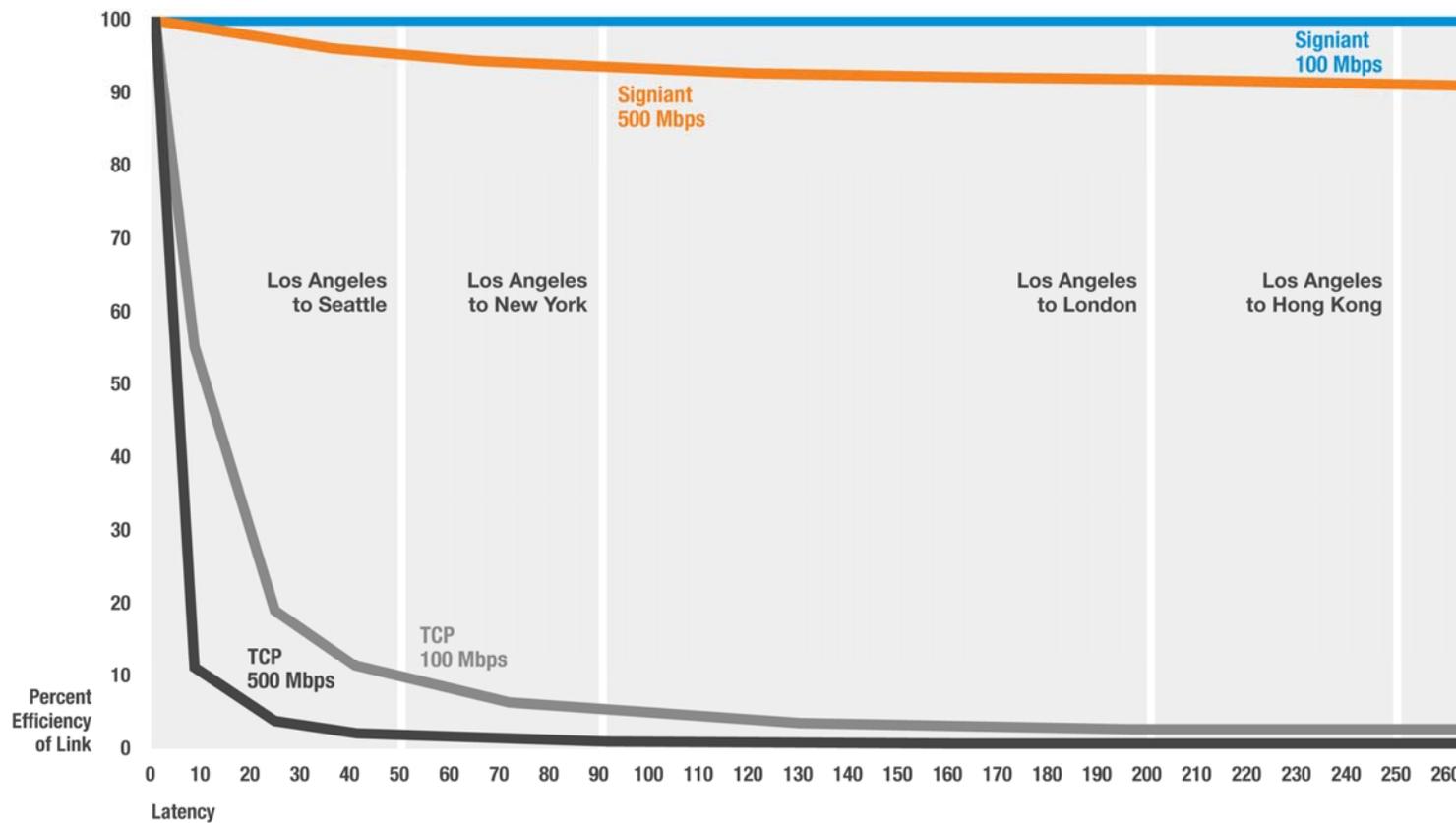
## Central Management of all File Transfers, Security Policies, and Process Automation Processes



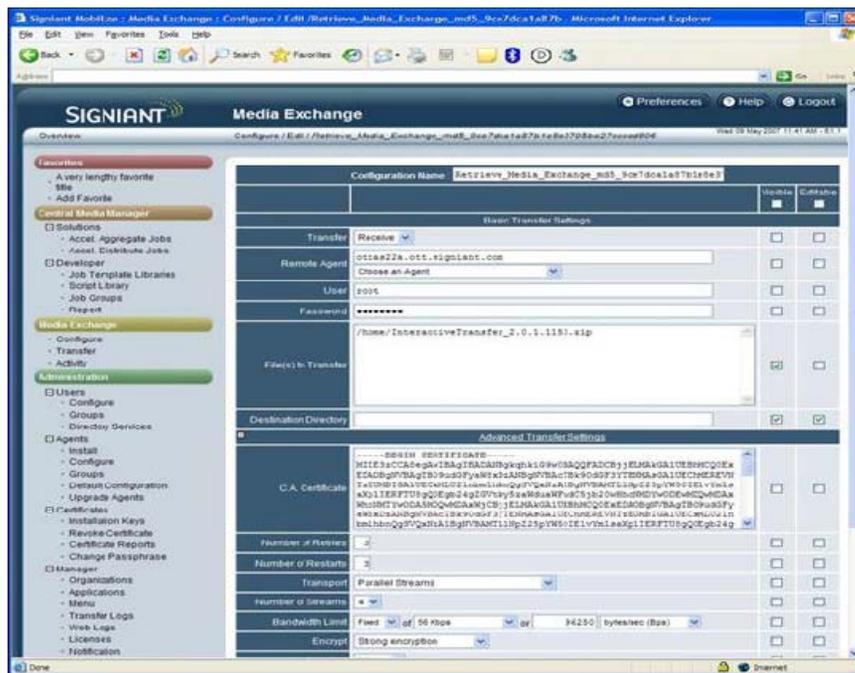
- ⇒ Web-based Interfaces
- ⇒ Real-time Dashboard
- ⇒ Adaptive policy engine
- ⇒ Workflow modeling engine
- ⇒ Business policy management
- ⇒ Scheduling
- ⇒ Tracking, reporting, auditing

# Acceleration

## Comparison Bandwidth Efficiency of Signiant vs. TCP for 40 GB Payload



# Security



- ⌚ Support all major security services
- ⌚ Up to 256bit AES Encryption
- ⌚ Built in Certificate Authority
- ⌚ Certified delivery
- ⌚ Firewall traversal
- ⌚ Data confidentiality and integrity
- ⌚ Reporting and auditing

Dashboard

Favorites

Customizer

Job Template Libraries

Script Library

Content Transfer SDK

Media Mover

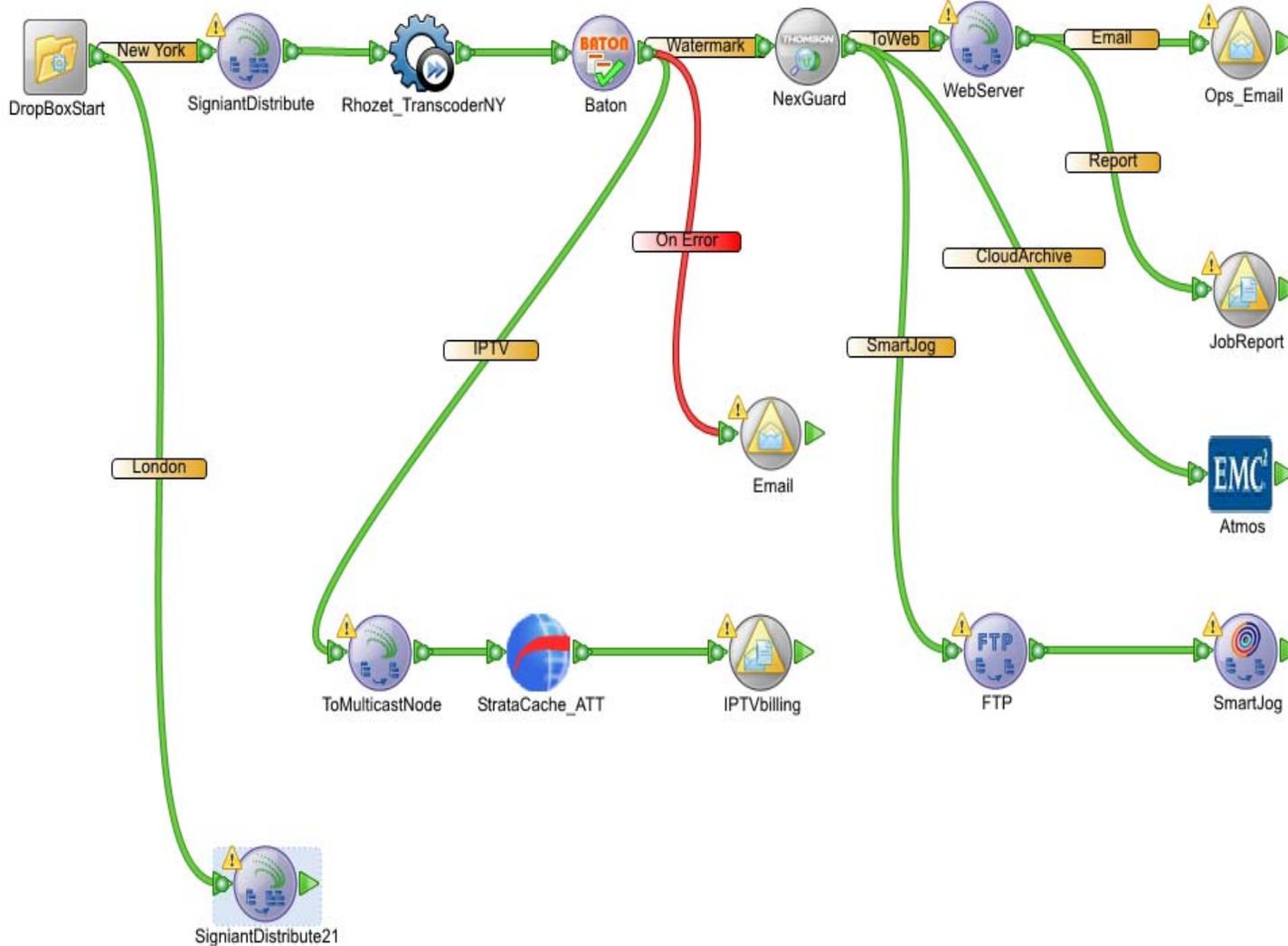
Jobs and Reports

Administration

- Users
  - Configure
  - Groups
  - Directory Services
- Agents
- Certificates
- Manager
- Integrations

Save Save As Export Back to Job Template Libraries

Canvas: NABGraphic1



## Q&A

- *Whitepapers and videos of note on [www.signiant.com](http://www.signiant.com):*
  - Signiant Architecture***
  - Field Generated and User Generated Content***
  - File-Based Content Distribution Management Has Immediate ROI, The Real Cost of Physical Media Distribution***
  - The ROI of WAN Bandwidth Optimization - How to Lower Bandwidth Cost, Increase Efficiency, Get More for Your Dollars, and Improve Productivity***
- *On [www.emc.com](http://www.emc.com):*
  - Content Mobility and Storage for Rich Media***