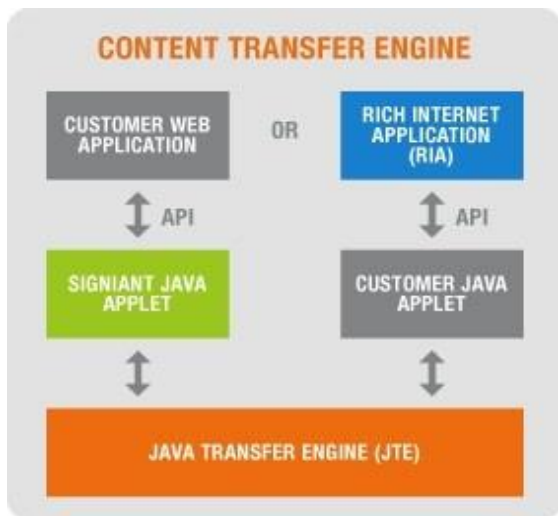
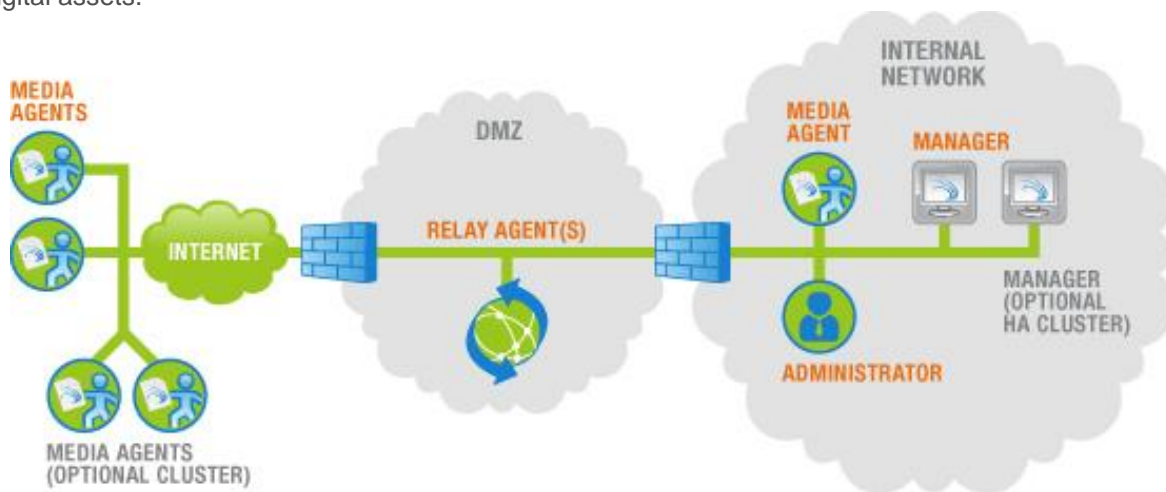




Content Transfer Engine

Collaboration is fast, reliable and secure

With a simple web user interface and no client software to install, users interactively initiate content transfers using the IP-based Signiant Acceleration Protocol to maximize network efficiency. Users can exchange content with other users, systems and applications, regardless of the location and size of digital assets.



The Content Transfer Engine is designed for developers to embed Signiant File Acceleration into an application, enabling end users to exchange files without installing a Signiant Agent. Through the use of this, any computer with Java installed can interact and accelerate file transfers using a customer's application. This is comprised of a Java class with extensive API calls to enable Signiant's Acceleration Protocol. When an end user accesses their application, the Content Transfer Engine automatically runs in the end user's browser, providing Signiant File Acceleration at the desktop. Developers can implement this by embedding the Signiant provided Java Applet with commonly used functionality into their web page, or for a highly customized user experience, call the JAVA classes directly from various Rich Internet Application environments.

Accelerated Rich Internet Applications

Rich Internet Applications (RIAs) are web applications that have many of the same characteristics of desktop software. Companies are using today's RIAs across multiple browsers and desktops providing a richer and more engaging end user experience without the need to load desktop software. Many of today's RIA implementations with Adobe Flex, JAVA and others include the movement of rich media or other large file types within this environment. Using Signiant's Content Transfer Engine, developers can enable RIAs with accelerated file transport, enabling users to get content where it needs to be faster and more easily than ever before.



Customer Use Cases

- Field Generated Content – News, Sports and Events
- Collaboration Content Creation – Review and Approve
- Digital Dailies Review – Theatrical, Episodic, Advertising
- Digital Asset Management – Ingest or Download

Signiant's technology is built upon a heritage of reliability and technical expertise with patented and time tested technology deployed in hundreds of global organizations. To assist with the challenges associated with migrating to file-based workflows, Signiant delivers a comprehensive solution. The Content Transfer Engine provides a central management capability that enables complete control and security – all transfers are tracked and visible from a single dashboard and reporting tool. Some of the major functionality available with the Content Transfer Engine package includes:

- Security services including integration with Directory Services (LDAP & AD) Authentication and Authorization
- Accelerated file uploads for High Speed and Network Efficient File Transfer – up to 200X faster than TCP and 95+% Network Efficiency
- Encrypted Browser sessions
- Bandwidth throttling including minimum and maximum bandwidth thresholds on a per user basis
- File Check-pointing, Retries and Restarts
- Central Management including: File Transfer Control, Bandwidth Adjustment of Transfers and User Management
- Customizable and Schedulable Reports of File Transfers
- SOAP Services to programmatically control the Content Transfer Engine

Deployment and Packaging

The Content Transfer Engine package includes:

Content Manager for performing administration and reporting of all Content Transfer Engine Activity
Content Transfer Engine enabled Agents for performing uploads and downloads with the Web clients
- for expanded capacity and load balancing; additional Agents can be added to the solution
Relay Agents (optional) for firewall transversal and isolation of content from external network
- content is not stored on Relay Agents, they are only used to route packages through the firewall
SDK including a JAR File containing the Java classes
Documentation including systems administration, API calls, instructions for integrating with HTML and RIAs
JAVA Applet for embedding into a web page
Sample Code for use with CLIs, Adobe Flex, C#/.Net and Java



Technical Specifications

CONTENT TRANSFER ENGINE CONCURRENT TRANSFERS	10 – per license and hardware limits
TRANSFER PROTOCOLS SUPPORTED	UDP, TCP and HTTP (port 8080) – configurable and auto-selecting
RELAY AGENT CONNECTIONS	20
STORAGE SUPPORT	SAN, NAS (NFS or CFIS – UNC Paths)
END-USER BROWSER SUPPORT	Internet Explorer, Firefox, Safari (see supported platforms document for version details); Java V1.5 or higher

Minimum Hardware Requirements		
Hardware	Manager and Web Server	Content Transfer Engine Agents
CPU	Pentium 4, 2 GHz or higher	Pentium 4, 2 GHz or higher
MEMORY	4GB	1GB
DISK DRIVE	Customer Preference (allow 5GB Signiant usage)	Customer Preference (allow 5GB Signiant usage)
NETWORK INTERFACE	100Base-T	100Base-T

***Requires Java Version 1.5 or higher