

Signiant Availability and Reliability

Signiant software has been instrumental in some of the Media & Entertainment industry's most successful digital media initiatives – from global, cross-platform Olympics coverage and feature film releases to complex file workflow support for the world's largest broadcaster and reliable transfer for post houses. The 'mission critical' reliability and availability designed into the software allows Signiant customers to grow their businesses, confident that their file-based workflows are executing and completing successfully.

Reliability – accurate and predictable

- Signiant software employs hashing, digital signing, and CRC checking of data during transit in order to detect and prevent errors between sending and receiving parties.
- The “certified delivery” function provided by Signiant software identifies each file that has moved from a source to a target, along with signed SHA-1 hashes of the file as computed by the source and target agents. These signed hashes are compared and if they match, it is certain that the file has not been modified in transit.
- Signiant Acceleration Protocol is faster and provides more predictable delivery times than other transport mechanisms that use TCP when sending files over long distances, by maximizing the use of available bandwidth.
- Automatic retries and checkpoint restart functions keep the transfers moving in the presence of packet loss and network errors.

Availability – redundancy, failover, and error handling

- Built-in failover and scaling with Load-Balanced Agents
- Geographic redundancy
- Support for virtualization so that Signiant software can fit in with a virtual strategy
- Automatic selection of the optimal transport protocol (UDP, TCP, HTTP) based on network conditions and firewall configurations
- Load measurement and auto-scaling for cloud-hosted components
- Automated backup and recovery

Monitoring – notification and services

- 24x7 monitoring and response for cloud-hosted components
 - Automated alarms, fault detection, and correction
 - Regular analytics and operations checklist procedures
- SMTP email notifications and SNMP traps for notification of administrators or other systems
- 24x7x365 enterprise level customer support