



CONTENT DELIVERY SYSTEM

NETWORK SYSTEMS

DESCRIPTION:

Content delivery networks allow you to access high bandwidth video and other media across the Internet or your organization's intranet. Without this system in place, transferring large files on a low bandwidth wide area network can cause severe degradation of service and even network outages. Content delivery is imperative to keep your system running at its maximum potential—especially if you distribute large media files on your network. Features of this system include:

Content distribution manager controls the replication of large files to remote locations. It also controls the time of day of the transfer and the amount of bandwidth consumed.

Content engine streams high quality video on the same LAN as the user. It works to provide the best quality for the user and does not consume scarce WAN resources.

Transparent caching pre-fetches content used by many users and delivers the content locally rather than all the way across the Internet.

Content filtering filters out unwanted or inappropriate content from being accessed at work, schools or at home by underage children. It can be updated daily, weekly or monthly to ensure that all new sites are filtered as they become available.

Server side caching resides in front of a web farm and reduces utilization on web servers and other devices by off-loading the delivery of content to the cache. It works in conjunction with load balancing.

Load Balancing balances the loads on the servers. This feature resides in front of the web or ftp server farm. The load balancer works at layers 4 through 7 of the OSI model. This allows the web site to provide added services to customers, which enhances the user experience. The load balancer ensures each server is capable of delivering content. If for some reason the server is not functioning properly, the load balancer will take the failed server out of rotation and move the content request to other servers in the farm.

SSL acceleration is accomplished by an appliance that offloads encryption of content from the web servers. Multiple SSL accelerations can increase the number of concurrent encrypted sessions a web farm can support. SSL accelerators are used in banks, hosting facilities and anywhere a web farm requires secure encrypted traffic.

SERVICES:

Design Services for Content Delivery Networks

*Design IP video solutions
Integrate broadband and digital video
Technical project management*

Content Distribution Manager

*Provides central point of management
Controls volume and time of transferring data*

Content Engine

*Places high-speed video closer to the user
Increases user's perception of network and
Internet speed
Caches video and all Internet traffic*

Transparent Caching

*Fetches content
Protects wide area network bandwidth*

Content Filtering

*Filters inappropriate content from Internet
Can be updated as new sites become available*

Server Side Caching and Load Balancing

*Speeds up web servers
Moves data request to other servers if the server
is not functioning
Removes failed servers from rotation and moves
to other servers
Polls server to ensure it can deliver message*

SSL Acceleration

*Offloads encrypted device from server farm
Increases number of concurrent encrypted sessions a
web farm can support*

Support Services

*Additions and changes
Experienced second opinions
Emergency restoration and technical support
NetStat proactive maintenance program
NetStat flexible service program*