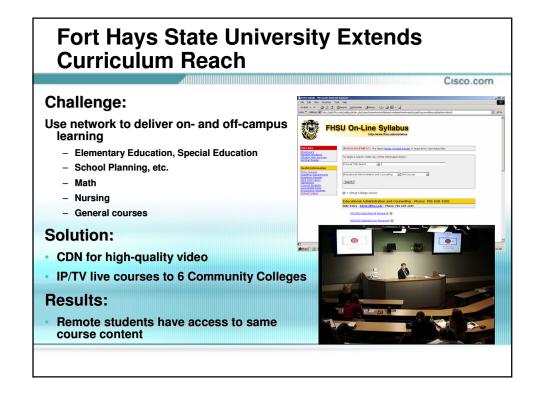
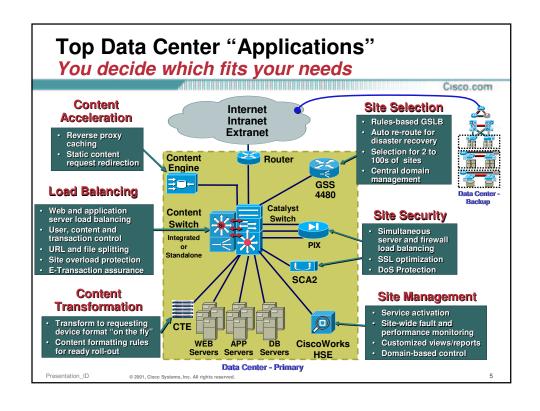
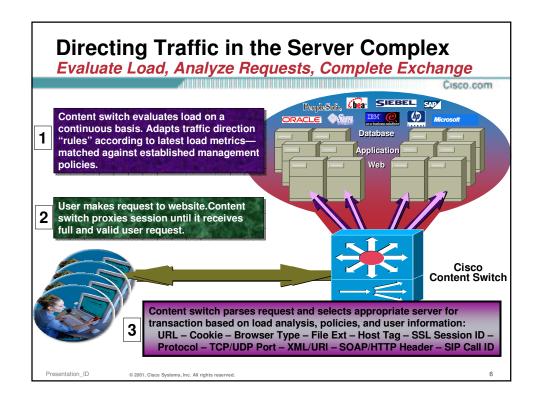
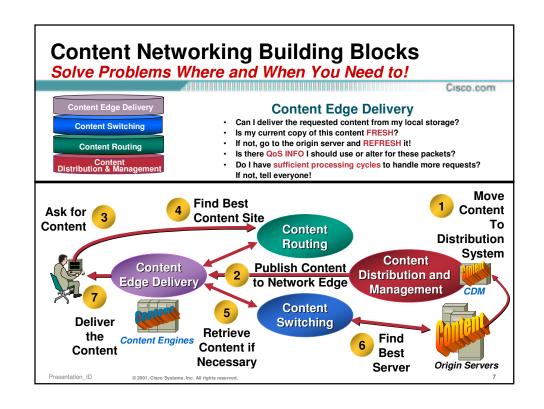


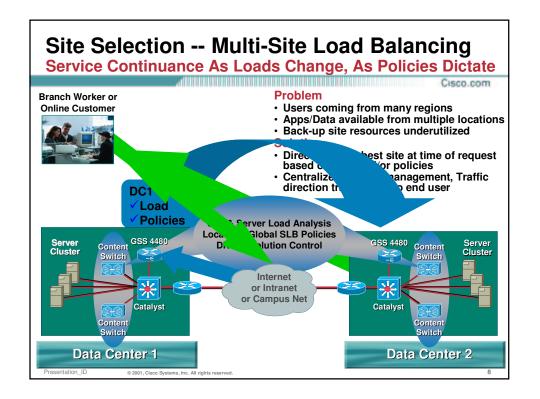
### **Cisco Content Networking Services** Increasing intelligence WITHIN the Infrastructure Cisco.com **Availability Scalability Security** • Streaming—splitting/re-Multicasting · Content-aware load balancing • Firewall, SSL, VPN load · Global load balancing · Caching-transparent, RPC SSL acceleration · E-transaction assurance Content prioritization/ service Content filtering • Mobile content delivery Virus control Adaptive session redundancy Content transformation • Denial of service protection • HSRP · Flash crowd protection · Domain-based admin • IP routing/mobility Multicast content distribution · Firewall and filtering EtherChannel Content-based packet-coloring Intrusion detection PortFast/UplinkFast/Backbone • IP Multicast · VPN & VLAN Fast · QoS Failover · AAA services • WCCPv2 • 802.1s, 802.1w • 802.1x, Identity Services · MPLS Management Service activation Device, element management Network AND services Dynamic traffic control Programmatic interaction monitoring and reporting











# **Protecting User Transactions, Accelerating SSL Traffic**

### **Problem**

 Server SSL processing slows transaction times, disables traffic management capabilities, and complicates security management

### Solution

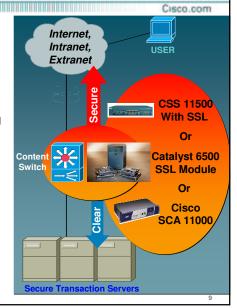
- Offload and accelerate SSL processing via dedicated appliance or switch module
- · Load balance secured traffic

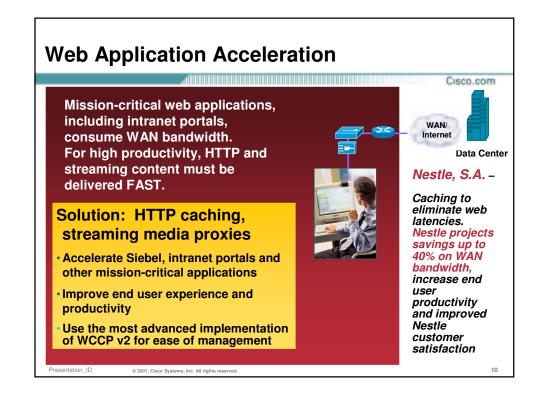
### Benefit

- Improves transaction and server performance and eliminates SSL as driver for additional server investment
- Simplifies certificate management
- Integrated content switching provides packet processing, transaction assurance, and traffic control

Presentation II

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# **ACNS/CE: Proxy Caching Engine**

Cisco.com

- Secure Internal Network from the Outside Hides internal network with CE's IP Address Access Control
- Transparent (WCCP) or Browser Proxy Interception of Cacheable Protocols

HTTP, FTP over HTTP, RTSP, MMS, HTTPS, native FTP

- Store and serve authorized, scrubbed and filtered content to authorized users and protect from misappropriate use
- Web Application Usage Policy Enforcement per user:

**User Authentication:** RADIUS, TACACS+, NTLM, LDAP, Active Directory

**Authorization:** Apply Rules, ACLs, URL Filtering and BW usage policy based on users and group membership.

**Accounting: Provide extensive logging and auditing capabilities** 

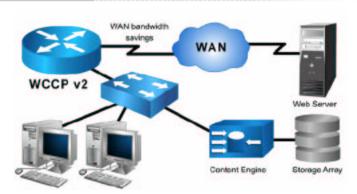
Presentation\_II

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# **Web Caching Components**

Cisco.com



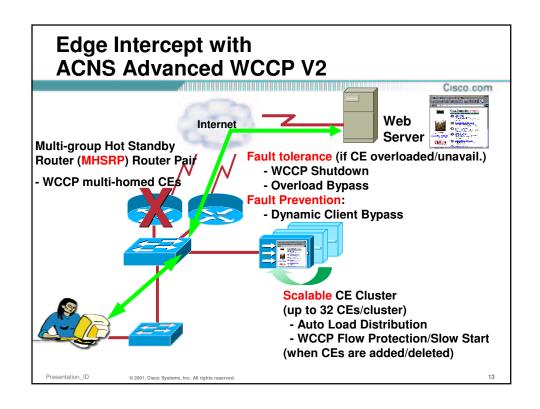
Frequently requested Web Pages are stored locally for later retrieval.

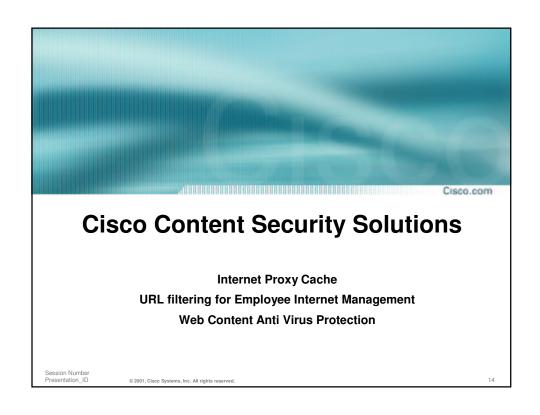
Allowing additional bandwidth for existing and/or new applications such as VOIP and IP Telephony.

Presentation\_

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### The Problem

Cisco.com

As companies extend Web applications and Internet access to employees, they need to manage what the Internet is used for and potential threats from "untrusted" content.

### Did you know...

- 70% of porn is downloaded between 9am and 5pm SexTracker
- The number of hacking sites grew 45% in the past year Websense
- 5 billion music files were downloaded from P2P networks last year - Yankee Group
- 1 in 3 companies have detected spyware on their network -Websense UK Survey
- 80% of network security managers claim their biggest security threat comes from their own employees - Gartner

## What is Content Security?

Cisco.com

### According to IDC ...

### **Secure Content Management Market Definition**

"SCM reflects corporate customers' need for policy-based Internet management tools that manage Web content, messaging security, virus protection, and downloadable applications execution. SCM is a superset of three specific product areas:

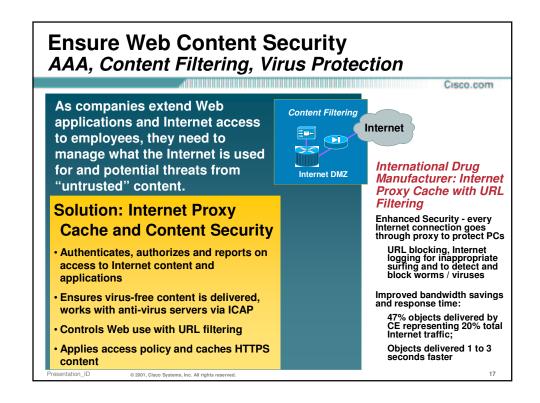
**Antivirus software** identifies and eliminates harmful software and macros. Antivirus software scans hard drives, email attachments, floppy disks, Web pages and other types of electronic traffic.

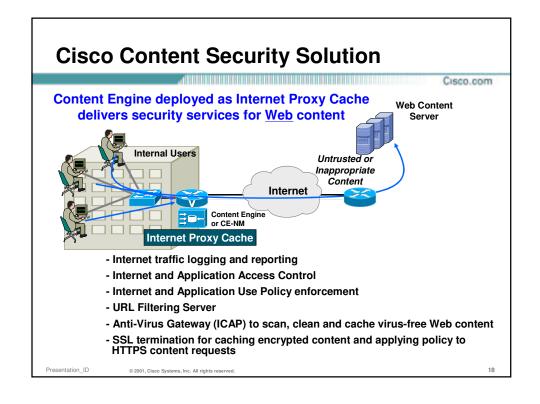
**Web Filtering software** is used to screen and exclude for access or availability Web pages that are deemed objectionable or not business related.

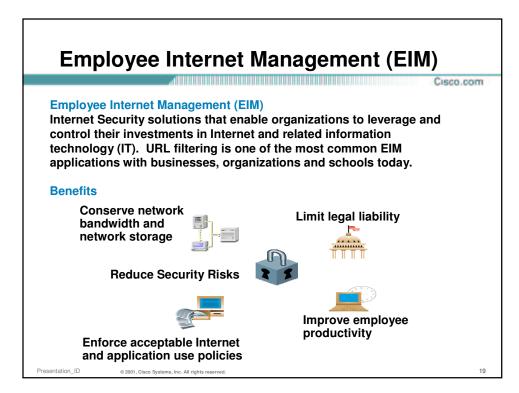
**Messaging security software** is used to screen messaging applications such as email, instant messaging, SMS, and peer-to-peer for spam or other objectionable content."

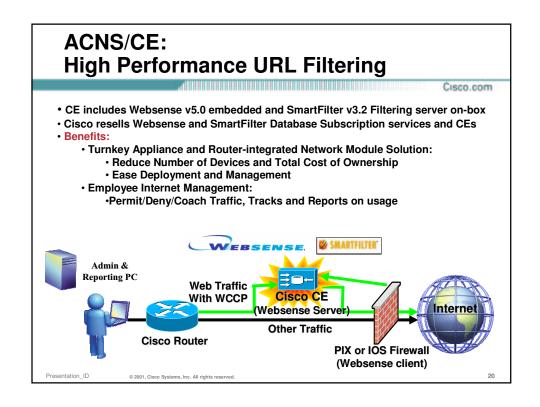
IDC Worldwide Secure Content Management Forecast 2002-2007, July '03

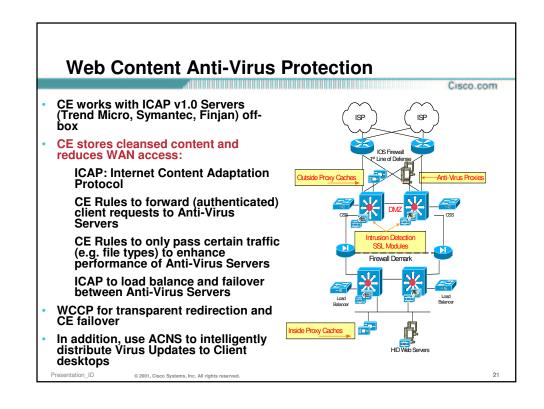
Secure Content Management market growing 19% annually, to \$6.4B in 2007

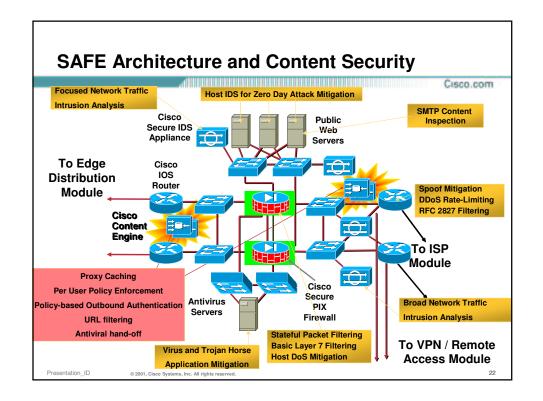


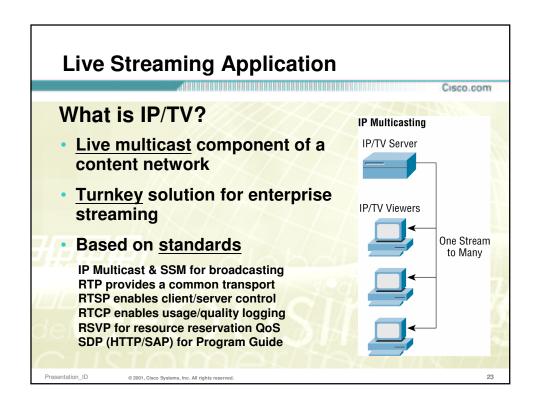






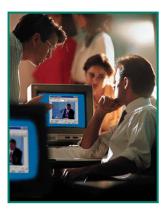






# **Cisco IP/TV Product Family**

Cisco.com



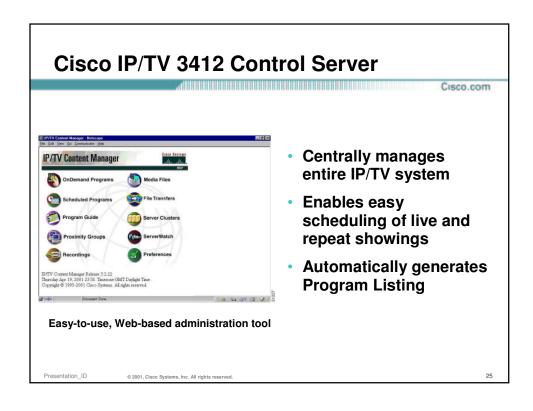
- Complete streaming video solution
- Focused on IP multicast
- Strong for "Live Events"

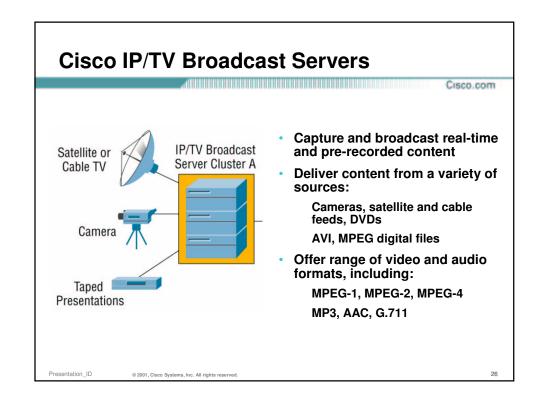
Live Encoding & Broadcast
Scheduled Re-broadcast
Synchronized Presentations
Question Feedback
Quality Monitoring & Usage
Feedback

Presentation I

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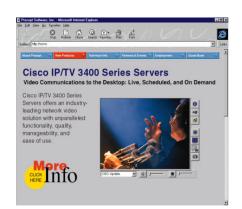
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# Cisco IP/TV or QuickTime Viewer

- Browser-based Plug-In Either Cisco IP/TV or QuickTime
- Embeds into Web Page
   Can author HTML on page
- Launches when user clicks URL on Web-based Program Listing
- Microsoft IE & Netscape browsers



Presentation\_I

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# SmallCast: Addressing Mixed Topologies • Addresses combined multicast and unicast environments • Tunnels a multicast program through a point-to-point logical connection between two IP/TV Servers Unicast Unicast This part of network does not support Multicast \*\*Data\*\* \*\*Data\*\* \*\*Data\*\* \*\*Multicast\*\* \*\*Data\*\* \*\*Multicast\*\* \*\*Data\*\* \*\*Multicast\*\* \*\*Data\*\* \*\*Multicast\*\* \*\*Data\*\* \*\*Multicast\*\* \*\*Data\*\* \*\*Data\*\* \*\*Multicast\*\* \*\*Data\*\* \*\*



