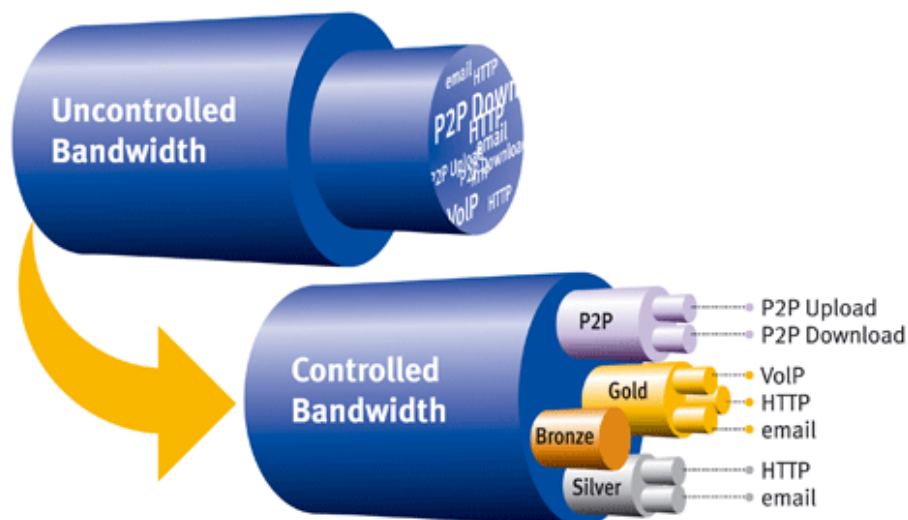# InstantScan

L7 Bandwidth Management/Recorder

■ What are employees doing at work?

Employees should focusing on office-related things instead of just chatting with friends by MSN / Yahoo / ICQ/ AOL / Skype, or browsing websites such as facebook or games. Sometimes they even download illegal movies by P2P applications such as eDonkey/Xunlei. These behaviors kill your productivitiy and squeeze your bandwidth.

■ Solutions: L7 InstantScan

With layer-7 protocol recogniztion in the first stage, traffic is analyzed and normalized into their true behavior; After deep inspection into the contents, traffic is filtered and recorded into the databases; Our InstantScan / InstantQoS offers enterprise-level solutions while InstantCare offers SMB / SOHO / Home solutions.

After shaping

After shaping

Fair among users on concurrent sessions / bandwidth.
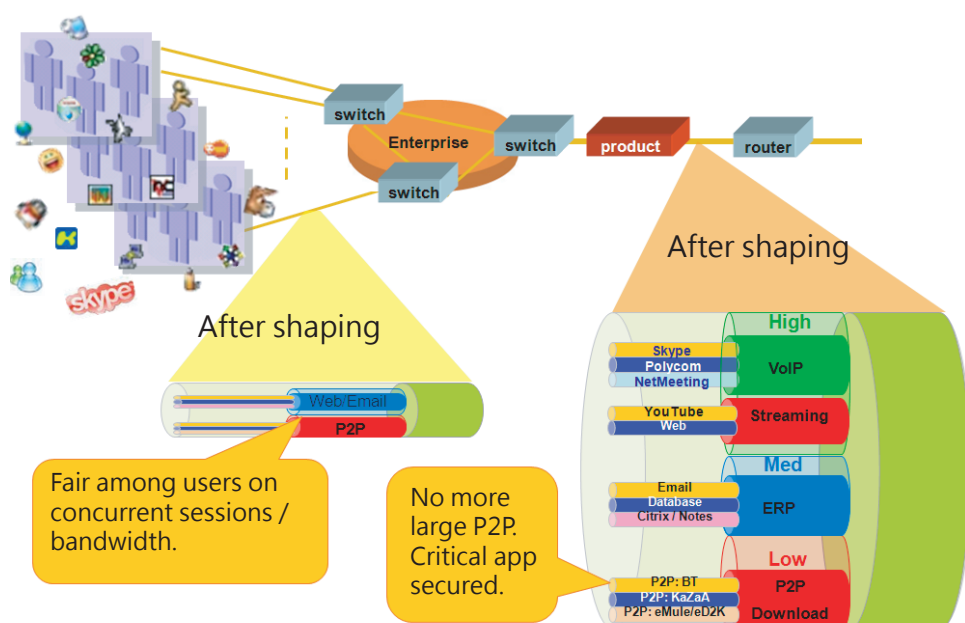
No more large P2P. Critical app secured.

Highlight

- Plug and play without reconfig-uring any current network settings.

- Deep inspection on P2P / VoIP / MSN / ... over HTTP

- Import from Windows AD and manage by account / group

- Manage IM behaviors such as login / chat / file-transfer / file-sharing / video / voice / remote access / photo-sharing / ...

- Manage IM contents by chat keyword filtering, filename keyword filtering, URL keyword filtering

- Manage web behaviors by URL database with instant warning of reasons

- Offer built-in service update on protocol recogniztion patterns, URL database

- Support IM/ Web / WebMail / SMTP / POP3 / FTP / Telnet content filtering / recording

- Support dynamic bandwidth borrowing and renting with priority, stochastic fair queuing, bandwidth pipes.

- Support web-login to grant users by authentication with external POP3 / IMAP / Radius / LDAP servers

- Support accurate policy on time control to have different rules at different shedules

- Offer many reporting/monitoring tools to analyze behaviors.

- Support hardware bypass to have

InstantScan

L7 Bandwidth Management/Recorder

Hardware Spec	IS-50	IS-100	IS-500	IS-1000	IS-3000	IS-5000	IS-8000
Size	19' 1U	19' 1U	19' 1U	19" 1U	19" 1U	19' 1U	19' 2U
RAM	512MB	1GB	1GB	1GB	2GB	2GB	4GB
INT/EXT(HW bypass)	FEx4	GEx4	GEx6	GEx6	GEx6	GEx6	GEx2 (max:8)
(option: SFP)	X	X	max:4	max:4	max:4	max:4	max:8
(option: 10G SFP+)	X	X	X	X	max:4	max:4	max:4
MGT/HA	FEx1 / X	FEx1 / X	GEx1 / GEx1	GEx1 / GEx1	GEx1 / GEx1	GEx1 / GEx1	GEx1 / GEx1
Fiber bypass (option)	X	X	All single/multi-mode GbE/10GbE SFP support Silicom external fiber bypass switch				
Console/CLI	V	V	V	V	V	V	V
Performance							
Suggested # Users	<70	<150	<500	<1000	<3000	<5000	<8000
# Policy Rules	512	512	1024	1024	2048	30K	64K
New Session Rate (/s)	1,000	1,850	3,000	5,150	10,000	20,000	30,000
Max Concurrent Session	20,000	200,000	200,000	300,000	1,000,000	2,000,000	8,000,000
Max Throughput	80Mbps	200Mbps	300Mbps	600Mbps	1Gbps	2Gbps	4Gbps

Installation / Monitoring / Policy	
Deployment	Support transparent inline mode and port-mirror sniffer mode
Realtime Monitoring	Support tree-based App View / IP View / User View / Policy View / QoS View
Web Authentication	Support rule-based subnet configuration and customizable authentication web page
Interactive Alert	Support pushing alert messages to any user's browsers to warn policy violation interactively
Interactive Blocking	Support blocking of any session interactively from realtime monitoring views
Role-based Policy	Support static/dynamic roles and role groups for policy setup
Layer-8 Management	
QoS on Web Behaviors	Based on a built-in URL database, web behaviors are categorized into 50+ behaviors ready for QoS
Web Traffic Type	HTTP / HTTP Proxy over any ports
Web Filtering / URL Database	Support more than 50 categories, including Porn / News / Stocks / Spyware / ...
Web Browsing Policy	Support policy rules conditioned on user's login name, belonging group, time, ...
Policy Violation Page	Support user-defined policy violation web page, can display user name, IP, violation reason
Web Objects	Suport blocking of Java/ActiveX/Cookies web objects
HTTP URL Recorder	Support HTTP URL recording of user clicks or manually entered URL, including user name / group, IP address, time,
External BW. Mgmt	
L7 Bocking or QoS	
Chat	MSN/QQ/AliWangWang/Fetion/Dushow/Popo/SinaUC/Skype/Yahoo/GoogleTalk/AOL/ICQ/Jabber/LavaLava/Gadu/...
P2P	Xunlei/Thunder/WebThunder/FlashGet/BT/eDonkey/eD2K/eMule/Overnet/EzPeer/Kuro/ClubBox/Poco/Fs2You/KaZaA Vagga /GoBoogy /Ares /iMesh/Gnutella/WinMX/Bearshare/Shareaza/Morpheus/Gnucleus/Kugoo/Pigo/dc++/100bao
VoIP	Skype/Polycom/RTP/RTCP/SkypeOut/Eyeballchat/SIP/TelTel/H.323/MsnVoice/NetMeeting/...
Tunnel	Hopster/YourFreedom/Garden/Gpass/Tor/HttpTunnel/JAP/RealTunnel/Vnn/SoftEther/FreeGate/Wujie/...
Streaming	QQTV /UUsee /PPfilm /PPlive /PPstream /RealPlayer /QuickTime /KKBox /Shoutcast /Winamp /Live365 /Radio365 /PPTV TVants /FastTV /SSTV /MeteorNetTV /3TV /PhoenixTV /YahooMusic /MMS /SeeTV /QQlive /QQmusic /JetAudio /Jetcast/
Enterprise	Citrix /MySQL /Notes /Oracle /MSSQL /RDP /VNC /UltraVNC /Win /PcAnywhere /Telnet /SSH /TeamViewer /Logmein
File Transfer	Skype File Transfer / SMB / FTP / WebHD (dropbox/...)
Stock	HuaTai/Tazihuei/TungHuaShuen/TienI/FenShiChia/StockStar/ZaoZang/AnShin/SkyNet
Game	Diablo3/LoL/CounterStrike/DaHuaShiYo/Dance/WarCraft/MoYu/CadinCar/MiracleWorld/Fight/WenDao/Lineage/...
L4 Blocking or QoS	
Whitelist	Supported
Bandwidth Partitioning	
Bidirectional Partitioning	Supported
Scheduled Partitioning	Supported
Internal BW. Mgmt	
Per-IP Rate/Quota/Session limit	Supported
2-Level Punishment	Supported
Buletin Boards for Query	Supported
IM Mgmt(option)	
IM types	Support MSN / Yahoo / AOL / ICQ / Miranda / Trillian / GAIM over standard / http / proxy ports
User/Group Mgmt	Support mgmt by web login names, AD logon names/groups
Policy Violation Alert	Support in-window warning alert to instantly alert the users
Schedule Control	Support schedule control on login / file transfer / video / whiteboard / ... behaviors
IM Logon Alert	Support pop-up alert when login to claim company's IM usage policy
Normalize IM	Support blocking of non-standard port-hopping / HTTP / HTTP Proxy / Tunnel / WebIM websites
Block 3rd-party Encryption	IM Secure / SimpleLite / Hopster / MSN Shell
Other Content Mgmt and Record	
Telnet	Support telnet screen capture (including colorful ANSI codes)
FTP	Support FTP behavior mgmt (by file extention names of upload/download actions. Support file content recording
Email	Support WebMail / SMTP / POP3 behavior control and content recording
Management	
User Interface	Support web-based Java UI, CLI (Telnet/SSH/Console), SMMP
User Authentication	AD single sign-on / AD / LDAP / RADIUS / POP3(S) / IMAP(S)
Auto Upgrade	Application patterns / URL database
Report Analysis	
Top reports	All kinds of daily/weekly/monthly/yearly reports
Permission Control	Support report / config centralized management with 3-level permissions: admin/manager/audit
Scheduled Report	Scheduled generation of emailed daily/weekly/monthly/yearly pdf/xls/html reports
Config Backup/Restore	Supported
Export Custom Report	Fully custom report

Suggested Mgmt Server	P4-1GB	P4-1GB	C2D-1GB	C2D-1GB	C2D-1GB	C2Q-2GB	C2Q-2GB

L7 Networks
Secure Networks at Layer-7

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