Networks
Secure Networks at Layer-7

Instant**Key** HTTPS Content Auditor / Filtering

Face the truth.
Threats are inside https-encrypted tunnels!!

■ **Filtering internal/external threats within https**
Existing web security solutions focus on filtering threats within http channels. However, more and more web sites redirect users to https-encrypted tunnels for privacy reasons so existing security solutions are bypassed. Such applications include Google Search / Map / Mail / Drive / Doc / Plus / Chat / Youtube, Twitter, Facebook, Facebook Chat, Dropbox, Yahoo Mail, Microsoft Outlook (hotmail) / SkyDrive / Skype / Line... As cloud services prevail, researchers had indicated that more than 40% of traffic will be encrypted in https by 2015. Auditing and filtering web contents becomes an uneasy job but everyone pretends to be unaware of this issue because no solution is available. It's time to face the truth.

■ **Auditing https by regulatory compliance**
Famous regulatory compliance includes Sarbanes-Oxley, PCI-DSS, HIPAA, SEC, FINRA, FSA, IIROC, FERC, NERC, CFTC, NFA, ... in many sectors. All electronic communications of an organization should be logged, recorded, and archived for years. However, encrypted communications are difficult to be audited so criminals are prone to hide themselves inside https. Digital forensics inside https are required for organizations to conform to the above mentioned regulatory compliance to avoid liability issues.

■ **InstantKey, your transparent https solution**
Painless deployment is essential to make users unaware of the InstantKey solution. Without dispatching an agent running on users' PC, InstantKey can transparently hook https transactions and issue valid certificates to users' browsers. No client installment. No client reconfiguration on proxy settings. No restructuring network architectures. Just simply put InstantKey inline then everything gets done. With a Cavium ASIC chipset to decrypt/encrypt data in https, network performance is guaranteed without degradation. Above mentioned https applications can be logged, recorded, and archived transparently.
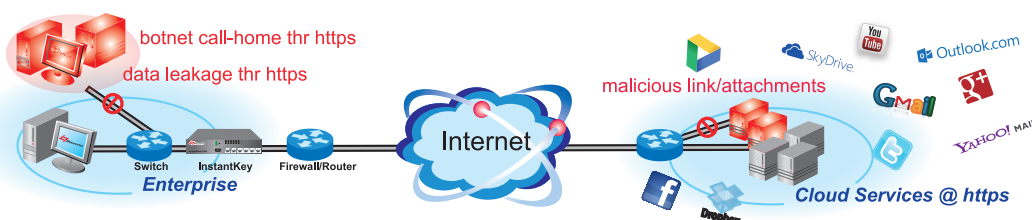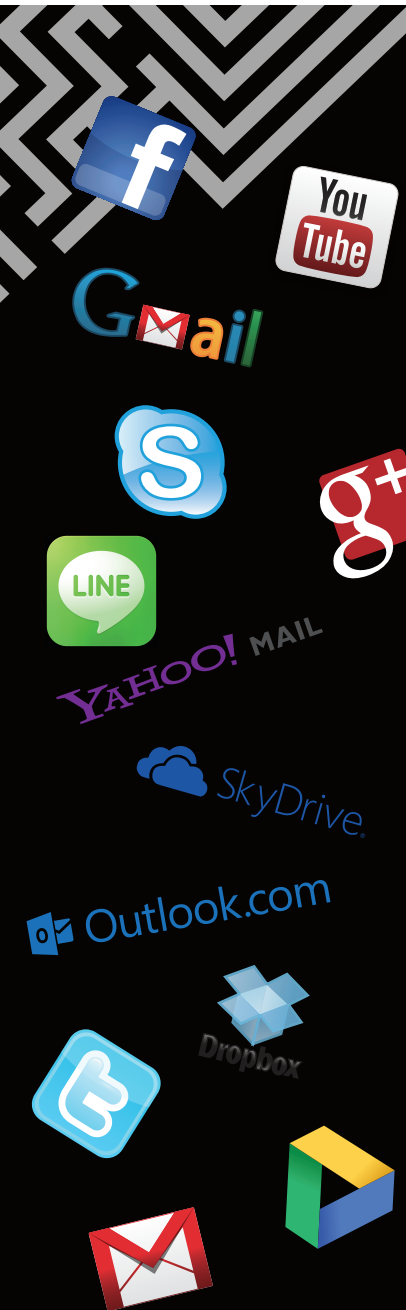

■ **Rich optional modules for best-in-breed security**
In addition to auditing https contents, InstantKey platform has invited best-in-breed security solutions:
(1) AegisLab signature-based filters for malware / botnet / spyware / C&C call-back
(2) AegisLab cloud-based URL database for granular Employee Internet Managment (EIM)
(3) XecureLab cloud-based APT scanner for malicious binaries / documents / encrypted attachments
(4) XecureLab cloud-based APT Sanbox for anti-VM behavior analysis
(5) OCR Lab data recognition engine for data loss prevention (DLP) on outgoing files / messages
(6) NetAuditor Skype recorder engine for recording messages / voices / files through Skype

Instant**Key**

HTTPS Content Auditor/Filtering

Appliance Model	IK-50	IK-100	IK-500	IK-1000	IK-3000	IK-5000	IK-8000
Size	19' 1U	19' 1U	19' 1U	19" 1U	19" 1U	19' 1U	19' 1U
RAM	2GB	2GB	4GB	4GB	8GB	8GB	16GB
Bridge segments	GEx2	GEx2	GEx4	GEx4	GEx4	GEx4	GE x4
(optional fiber module)	X	X	SFP (max:4)	SFP(max:4)	SFP (max:4)	SFP(max:4)	SFP (max:4)
(optional 10G module)	X	X	SFP+x2	SFP+x2	SFP+x2	SFP+x2	SFP+x2
Hardware bypass	GEx2	GEx2	GEx4	GEx4	GEx4	GEx4	GE (max:10)
Optional fiber bypass	X	X	Support external Silicom fiber bypass switch for all SFP/SFP+ fiber interfaces				
Cavium ASIC	X	X	X	V	V	V	V

Performance							
Concurrent IPs	70	150	500	1,000	3,000	5,000	10,000
Concurrent sessions	20,000	200,000	200,000	300,000	500,000	1,000,000	2,000,000
https throughput	10Mbps	40Mbps	100Mbps	150Mbps	250Mbps	500Mbps	1Gbps
normal traffic throughput	80Mbps	160Mbps	300Mbps	600Mbps	1Gbps	2Gbps	4Gbps

Deployment

Installation	Support inline bridge mode with full transparency to decrypt/encrypt https tunnels
User Awareness	No browser alerts from certificate errors
User Agent	No user agents required to run on each PC
User Authentication	Agentless AD authentication to achieve SSO (Single Sign On) or Web Login with LDAP/Radius/Pop3(s)/Imap(s)
Web Filtering	Support 60+ categories, including porn/ads/gambling/violence/stocks/news/games/comics/chatroom/jokes/spyware/...

HTTPS content auditor

Web	Record all HTTPS URLs / downloaded file name/content, HTTPS upload file name/content, post parameters
WebMail	Record HTTPS webmails' sender/subject/body/attachment, including Gmail / Outlook(hotmail) / YahooMail / ...
WebHD	Record HTTPS upload/download file name/content, including Dropbox / GoogleDrive / SkyDrive / ...
WebSocial	Record HTTPS social activities like browse / photo share / ..., including Facebook / Twitter / Google+ / ...
IM	Record HTTPS Line / FacebookChat / GmailChat chats / photo in instant messengers

Skype content auditor (optional) powered by NetAuditor(R) Inc.

Chat audit	Record normal / group chat messages displayed in a tree-based user interface with search functions
File audit	Record file name/content of all outgoing / incoming Skype file transfers

http(s) security filter (optional) powered by AegisLab(R) Inc.

File Anti-Virus	Prevent social engineering attacks through WebMail attachments, support pdf/doc/docx/xls/xlsx/ppt/pptx/eml/vbs/...
	Prevent files downloaded from WebHD, support many file formats and compression formats
WebGuard	Prevent clicking malicious https links spread through social friends in Facebook / Twitter / GooglePlus / ...
	Detect botnet / malware /apt C&C call-home https accesses

http(s) anti-APT engine (optional) powered by XecureLab(R) Inc.

Scanner	XecureLab cloud-based APT scanner for malicious binaries / documents / encrypted attachments
Sandbox	XecureLab cloud-based APT Sanbox for anti-VM behavior analysis

http(s) DLP for PII (optional) powered by OCR Lab(R) Inc.

File format	Support inspection of pdf / eps / doc / docx / xls / xlsx / ppt / pptx / txt / eml / txt / ... formats
Compression format	Support zip / tgz / 7z / rar / tar / gz / ... formats in recursive mode
Threshold setting	Support blocking when the number of matches exceed the threshold to avoid false positives
Privacy Identity Info	
Credit card ID	Support VISA / Master / JCB / American Express / Union Pay / Diners Club / ...
ID / SSN	Support US / Japan / Taiwan / Korea / China / Singapore / Malaysia / Vietnam / England / Canada / France / ...
Passport NO.	Support US / Japan / Taiwan / Korea / China / Singapore / Malaysia / Vietnam / England / Canada / France / ...
Name	Support English / Chinese / Japanese / French / ... names
Birthday	Support date formats in English / Chinese / Japanese / French / ...
Telephone	Support international formats for lease-line / mobile phone numbers
Email	Support standard email formats
Address	Support address formats in US / Taiwan / Japan / Korea / ...

Management

User Interface	Support web-based Java UI, CLI (Telnet/SSH/Console)
SNMP	Support SNMP v1 and v2

Reporting

Role-based	Support 3 levels roles: admin/manager/audit to view/manage different devices and privacy-sensitive records
Tree-based	Records are organized in trees of users/organizations/groups and support keyword search functions
Email alert	Support email alerts when critical events occur, such as PII leaking event
Top reports	All kinds of daily/weekly/monthly/yearly reports
Scheduled Report	Scheduled generation of emailed daily/weekly/monthly/yearly pdf/xls/html reports

About L7 Networks Inc.

Founded in 2002 by senior R&D members and invested by D-Link / ZyXEL / Advantech, L7 focused on OEM firewall business and started branded business since 2005.

Core technologies include layer-7 app recognition (1000+), layer-8 content recording & mgmt., layer-9 data recognition, and layer-10 SSL content inspection.

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