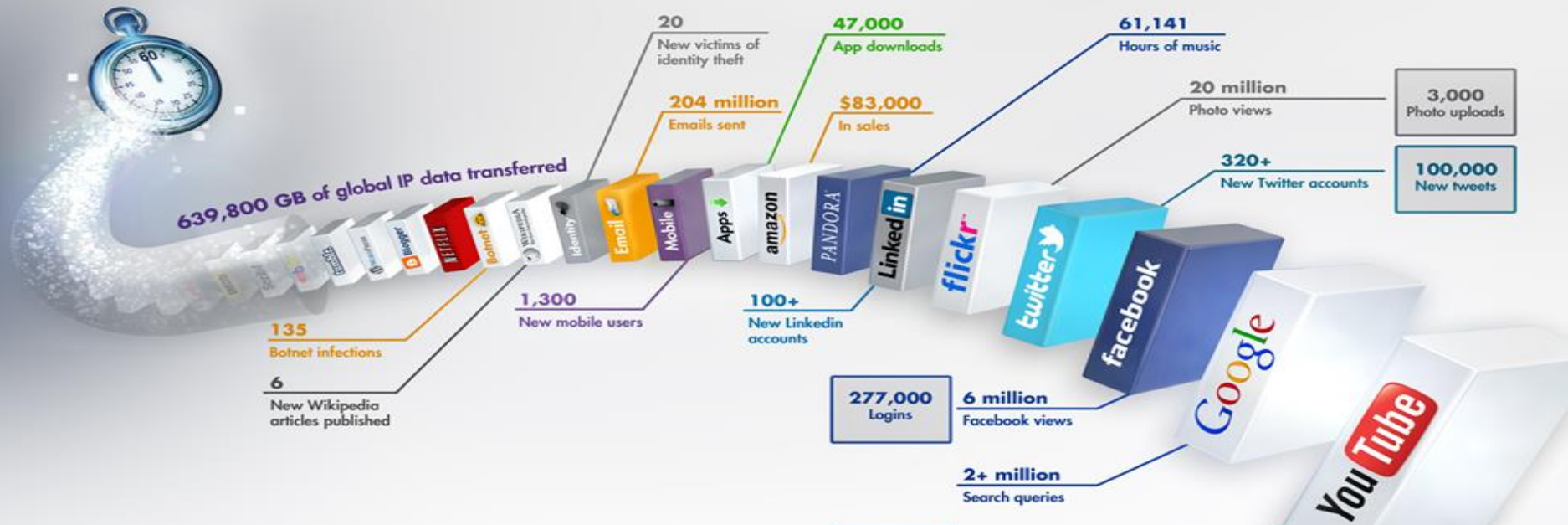


# What Happens in an Internet Minute?



## And Future Growth is Staggering



# Dell Software Group

Flooding DoS

malWARE

CyberWarfare

eSpionage APT

Simon Wikberg

security specialist

[simon.wikberg@software.dell.com](mailto:simon.wikberg@software.dell.com)





# Security trends...

- Microsoft Critical Security Bulletins Summary for April 2015

## Exploitability Index

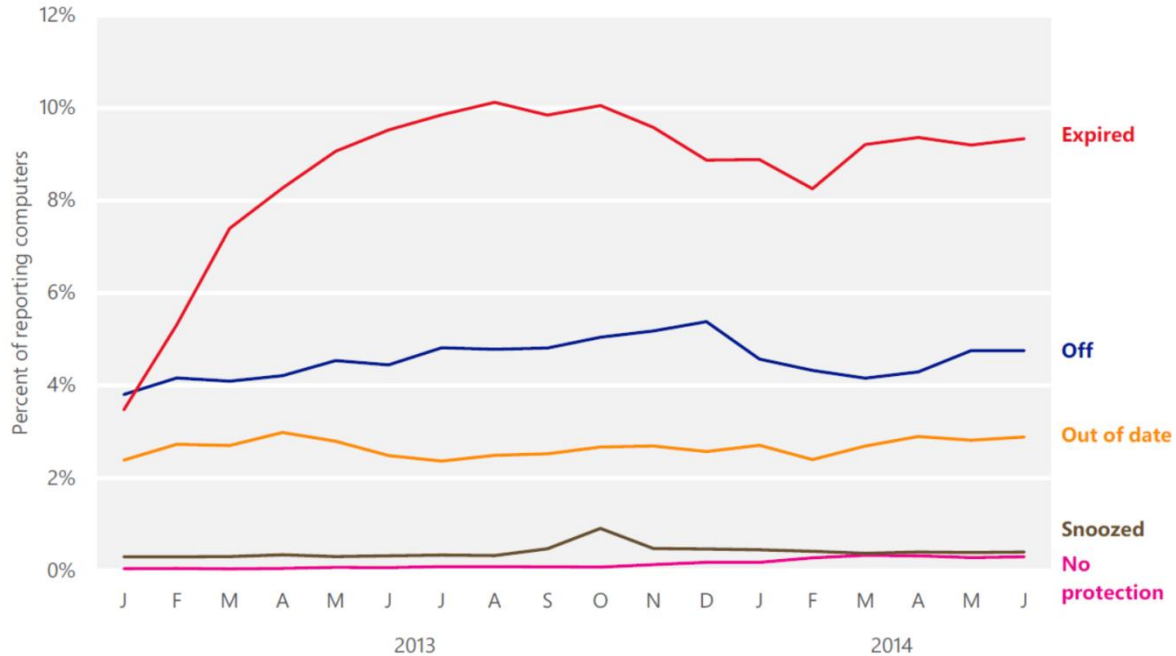
Bulletin ID	Vulnerability Title	CVE ID	Exploitability Assessment for Latest Software Release	Exploitability Assessment for Older Software Release	Denial of Service Exploitability Assessment	Key Notes
MS15-032	Internet Explorer Memory Corruption Vulnerability	<a href="#">CVE-2015-1652</a>	1 - Exploitation More Likely	1 - Exploitation More Likely	Not Applicable	(None)
MS15-032	Internet Explorer Memory Corruption Vulnerability	<a href="#">CVE-2015-1657</a>	1 - Exploitation More Likely	1 - Exploitation More Likely	Not Applicable	(None)
MS15-032	Internet Explorer Memory Corruption Vulnerability	<a href="#">CVE-2015-1659</a>	1 - Exploitation More Likely	4 - Not Affected	Not Applicable	(None)
MS15-032	Internet Explorer Memory Corruption Vulnerability	<a href="#">CVE-2015-1660</a>	4 - Not Affected	1 - Exploitation More Likely	Not Applicable	(None)
MS15-032	Internet Explorer ASLR Bypass Vulnerability	<a href="#">CVE-2015-1661</a>	2 - Exploitation Less Likely	2 - Exploitation Less Likely	Not Applicable	(None)
MS15-032	Internet Explorer Memory Corruption Vulnerability	<a href="#">CVE-2015-1662</a>	1 - Exploitation More Likely	4 - Not Affected	Not Applicable	(None)
MS15-032	Internet Explorer Memory Corruption Vulnerability	<a href="#">CVE-2015-1665</a>	1 - Exploitation More Likely	4 - Not Affected	Not Applicable	(None)
MS15-032	Internet Explorer Memory Corruption Vulnerability	<a href="#">CVE-2015-1666</a>	1 - Exploitation More Likely	1 - Exploitation More Likely	Not Applicable	(None)



# Security trends...

- MS SIR vol. 17

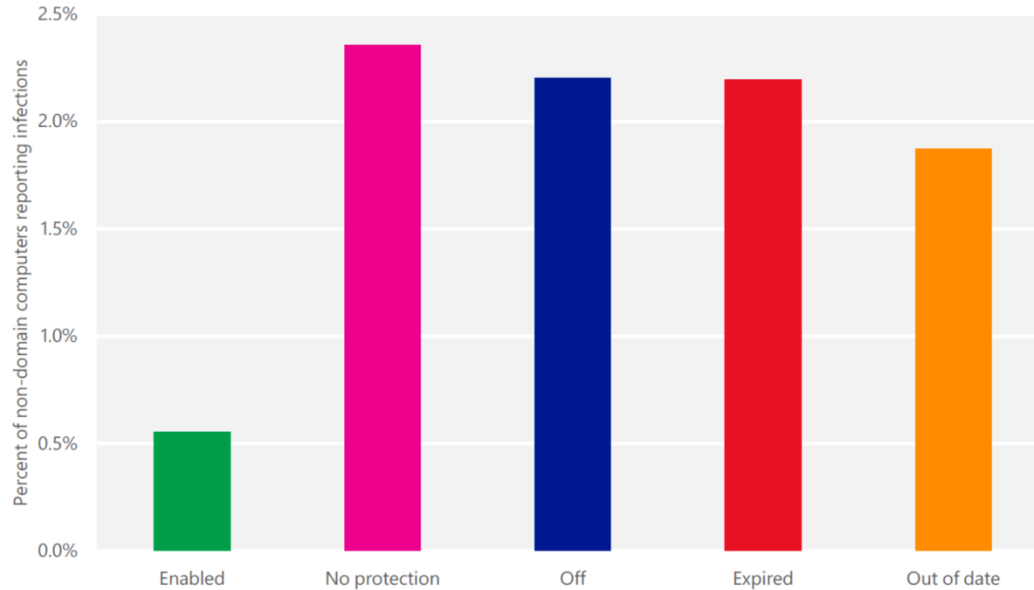
Windows systems without up-to-date real-time security software enabled,



# Security trends...

- MS SIR vol. 17

Infection rates for the same systems without up-to-date real-time security software enabled,



# Security trends...

- Mitigate the problem



SHA256: 3b299c58c209c647bff6520fd6f72243a8d4208fe7399f7a79373b737f1aac13

File name: jmbytnq.exe

Detection ratio: 5 / 57

Analysis date: 2015-05-05 17:28:54 UTC ( 12 hours, 49 minutes ago )

Analysis | File detail | Relationships | Additional information | Comments 0 | Votes | Behavioural information

Antivirus	Result	Update
ESET-NOD32	a variant of Win32/Kryptik.DHHC	20150505
Microsoft	Trojan:Win32/Kadena.gen!B	20150505
Qihoo-360	HEUR/QVM20.1.Malware.Gen	20150505
Sophos	Mal/Dyreza-J	20150505
Tencent	Trojan.Win32.Qudamah.Gen.6	20150505
ALYac	✓	20150505
AVG	✓	20150505

## Serious vulnerability – that easy to tap your smartphone



## Scientists has discovered a very serious flaw that allows attackers to spy on everything.

### Time to ditch HTTP – govt malware injection kit thrust into spotlight

Don't touch that cat video, warns Citizen Lab

By Iain Thomson, 16 Aug 2014 [Follow](#) 2,165 followers

75

[Implementing global e-invoicing](#)

A new report from the Toronto-based internet watchdog Citizen Lab has shown cases of governments running network injection attacks that can deliver malware via any HTTP web connection.

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Inappropriate  Repetitive  Irrelevant

Google

## Hacking Gmail App with 92 Percent Success Rate

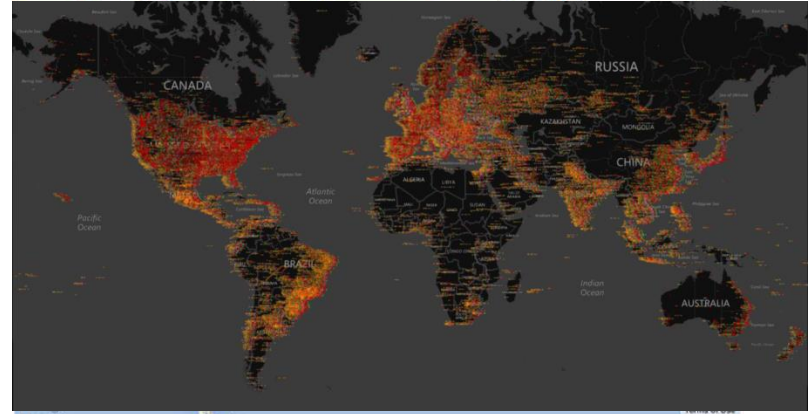
[Calendar](#) Saturday, August 23, 2014 [User](#) Mohit Kumar

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## Serious vulnerability – that easy to tap your smartphone



**Uapush.A** – sends SMS, steals personal info

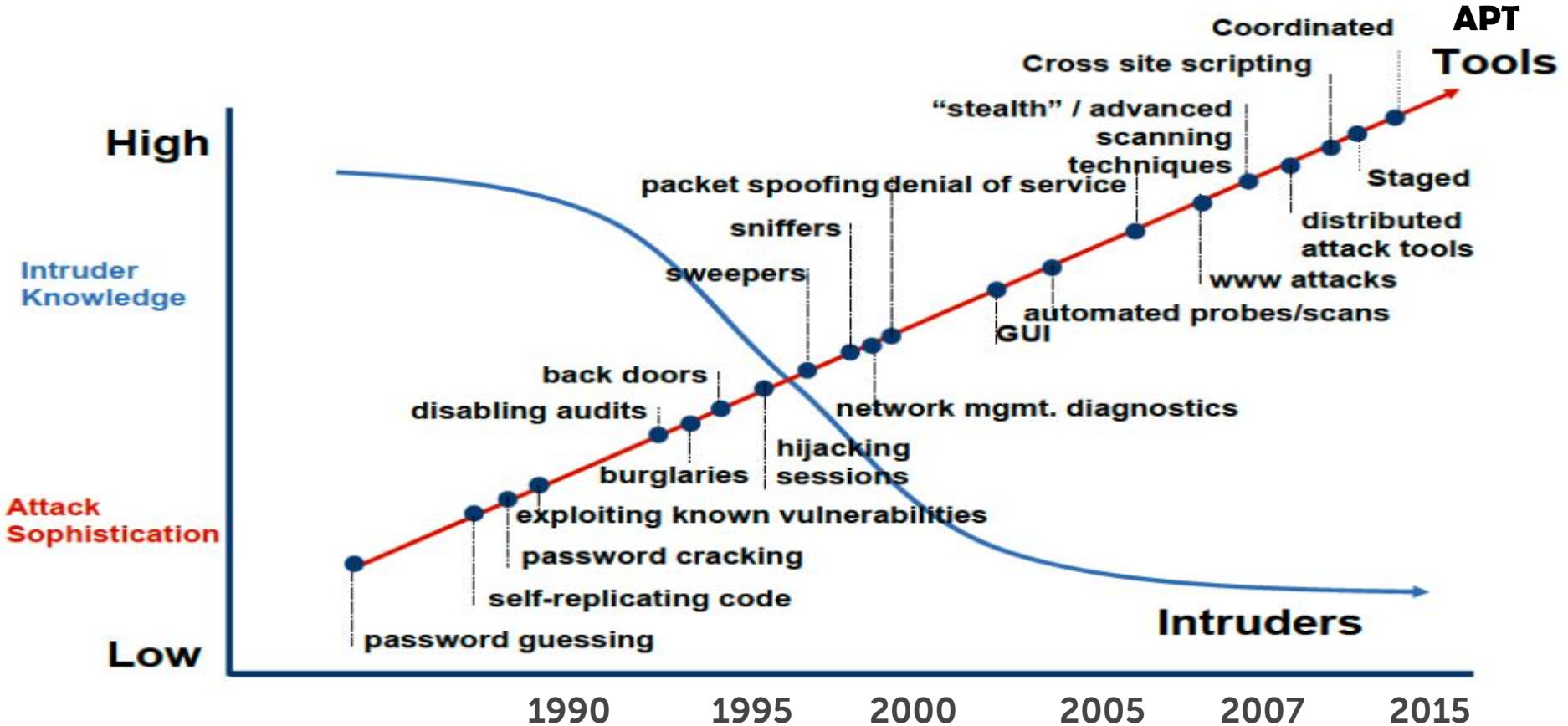
**NotCompatible** - anonymous proxy Windows and Android

**Koler** - scareware & anonymous proxy

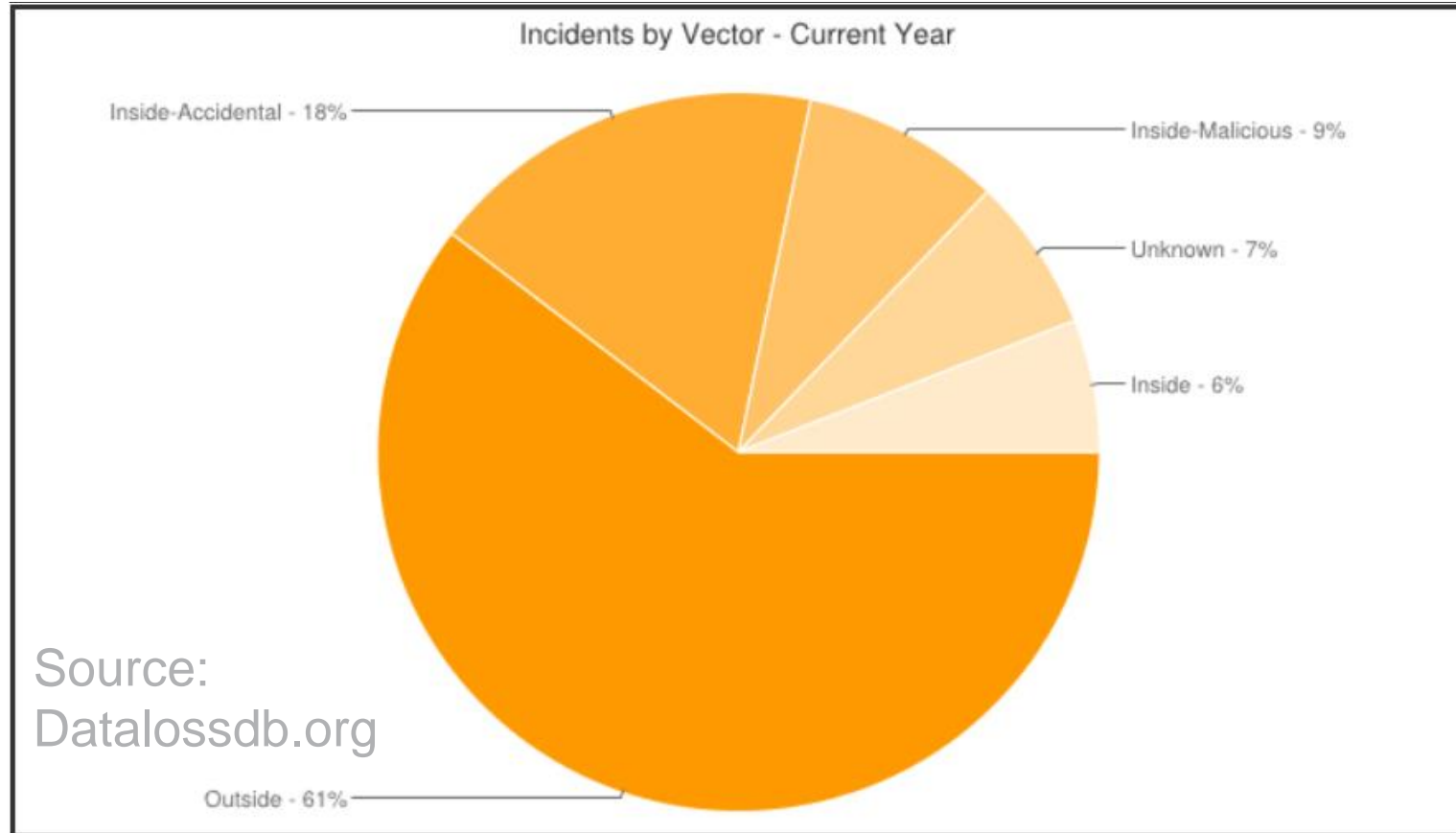
**FakeFlash** – scam, charges money

**Where are they ???**

# Security trends...



# Security trends...



# Security trends...

- APT – Advanced Persistent Threat



Security trends...



# Security trends...

Privacy and Integrity?

SECRET // SI // REL TO USA, FVEY

(U) I hunt sys admins



Case 1:12-cr-00185-LAP Document 69 Filed 04/16/14 Page 1 of 2

UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF NEW YORK

UNITED STATES OF AMERICA,

-against-

Case No. 12 Cr. 185 (LAP)

JEREMY HAMMOND,

Defendant.

SENTENCING MEMORANDUM  
ON BEHALF OF JEREMY HAMMOND



# NSA's most powerful Internet Attack Tool

TOP SECRET//COMINT//REL USA, FVEY

(U) There is More Than One Way to QUANTUM

Name	Description	Inception Date	Status	Operational Success
<b>CNE</b>				
QUANTUMINSERT	<ul style="list-style-type: none"> <li>Man-on-the-Side technique</li> <li>Briefly hi-jacks connections to a terrorist website</li> <li>Re-directs the target to a TAO server (FOXACID) for implantation</li> </ul>	2005	Operational	<b>Highly Successful</b> (In 2010, 300 TAO implants were deployed via QUANTUMINSERT to targets that were un-exploitable by any other means)
QUANTUMBOT	<ul style="list-style-type: none"> <li>Takes control of idle IRC bots</li> <li>Finds computers belonging to botnets, and hijacks the command and control channel</li> </ul>	Aug 2007	Operational	<b>Highly Successful</b> (over 140,000 bots co-opted)
QUANTUMBISCUIT	<ul style="list-style-type: none"> <li>Enhances QUANTUMINSERT's man-on-the-side technique of exploitation</li> <li>Motivated by the need to QI targets that are behind large proxies, lack predictable source addresses, and have insufficient unique web activity.</li> </ul>	Dec 2007	Operational	<b>Limited success at NSA</b> due to high latency on passive access (SICR uses technique for 80% of CNE accesses)
QUANTUMDNS	<ul style="list-style-type: none"> <li>DNS injection/redirection based off of A Record queries.</li> <li>Targets single hosts or caching name servers.</li> </ul>	Dec 2008	Operational	<b>Successful</b> (High priority CCI target exploited)
QUANTUMHAND	Exploits the computer of a target who uses Facebook	Oct 2010	Operational	<b>Successful</b>
QUANTUMPHANTOM	Hijacks any IP on QUANTUMable passive coverage to use as covert infrastructure.	Oct 2010	Live Tested	N/A
<b>CNA</b>				
QUANTUMSKY	Denies access to a webpage through RST packet spoofing.	2004	Operational	<b>Successful</b>
QUANTUMCOPPER	File download/upload disruption and corruption.	Dec 2008	Live Tested	N/A
<b>CND</b>				
QUANTUMSMACKDOWN	Prevents target from downloading implants to DoD computers while capturing malicious payload for analysis.	Oct 2010	Live Tested	N/A

TS//SI//REL

TOP SECRET//COMINT//REL USA, FVEY

1

# Schneier on Security



# ICReach

[NSA Search](#)

[I'm Feeling Invasive](#)

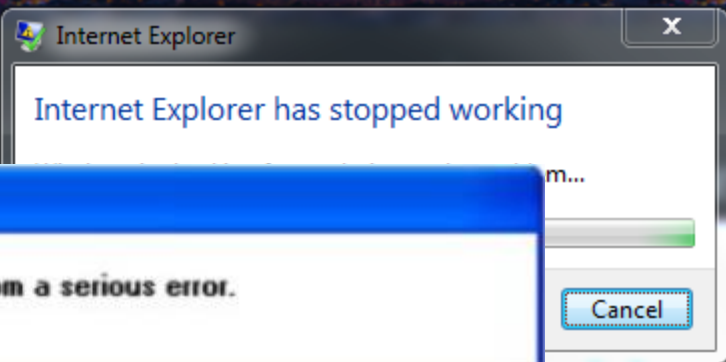




# NSA and A

New document measures in call lists, SM

THE ASSOCIATE



# ckberry

cracked security / includes contacts

Facebook 71 | Twitter 17 | Digg | Tumblr | RSS | 7 | Email | Print

nydailynews.com is not responding.

A A





### СТАТИСТИКА

ЗА ВЕСЬ ПЕРИОД

21498 ХИТЫ



ЗА СЕГОДНЯ

19702 ХИТЫ

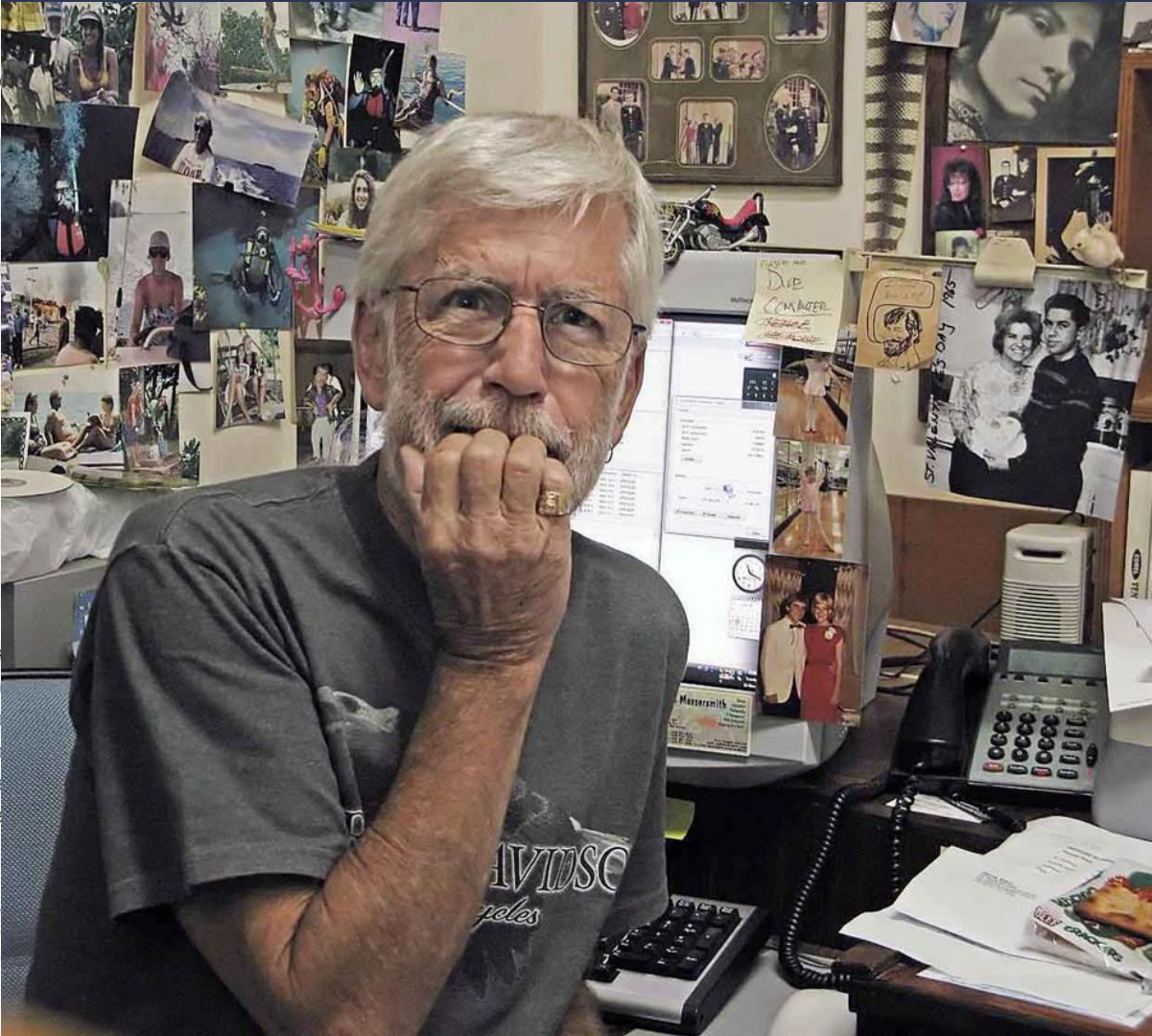


### БРАУЗЕРЫ

- Chrome >
- Firefox >
- MSIE >
- Mozilla >
- Opera >
- Safari >

### ОС

- Windows 7
- Windows XP
- Windows Vista
- Windows 2000
- Windows 2003
- Windows 98
- Windows 95
- Mac OS
- Linux
- Windows NT



Blackhole<sup>®</sup> СТАТИСТИКА ПОТОКИ ФАЙЛЫ БЕЗОПАСНОСТИ НАСТРОЙКИ Выйти

Начало:  Конец:  Применить Автообновление: 5 сек.

### СТАТИСТИКА

ЗА ВЕСЬ ПЕРИОД

**13289** ХИТЫ **11506** ХОСТЫ **1187** ЗАГРУЗКИ **10.32%** ПРОБИВ

ЗА СЕГОДНЯ

**3013** ХИТЫ **2760** ХОСТЫ **300** ЗАГРУЗКИ **11.55%** ПРОБИВ

### ПОТОКИ

ПОТОКИ	ХИТЫ ↑	ХОСТЫ	ЗАГРУЗКИ	%
DENIS >	13285	11505	1187	10.32
default >	4	3	1	0.00

### ЭКСПЛОИТЫ

ЭКСПЛОИТЫ	ЗАГРУЗКИ	% ↑
Java X >	584	49.20
Java SMB >	460	38.75
PDF >	108	9.10
Java DES >	29	2.44
MDAC >	6	0.51

### СТРАНЫ

СТРАНЫ	ХИТЫ ↑	ХОСТЫ	ЗАГРУЗКИ	%
United States	12417	10991	1119	10.19
Brazil	154	101	9	8.91
India	63	35	4	11.43
Japan	47	9	3	33.33
Mexico	37	28	0	0.00

### БРАУЗЕРЫ

БРАУЗЕРЫ	ХИТЫ	ХОСТЫ
Chrome >	2273	2148
Mozilla >	104	72
Firefox >	5033	4847
Opera >	360	288
MSIE >	4232	3080
Safari >	1287	1102

# Phoenix Exploit's Kit

## 3.0 full

CONCORDIA, INTEGRITAS, INDUSTRIA...

### OC

OC	ХИТЫ	ХОСТЫ
Incognito	10	10

Simple browser statistics Main Statistics Exploit statistics

### Sellers

IP:	Seller_name	Uploading file	Hosts	Runs	Percentage
g	bl		41318	1535	3.72%
F	sd		334	58	17.37%
st	zc		6716	624	9.29%
n	sc		126377	16636	13.16%
w	sc		1305	151	11.57%
C	sc		280	34	12.14%
S	sd		8116	1572	19.37%
li	zc		3913	537	13.72%
D	sc		4492	926	20.61%
vi	sc		5885	806	13.7%
y	re		5891	906	15.38%
h	sc		38	8	21.05%

### ROBO

STATS LOG TRAFFIC SELLERS FILE SETTINGS CLEAR

Statistic	Traff	Loads	Efficiency
All	57	7	12.28%

### Browsers

Browser	Traff	Loads	Efficiency
Safari	20	1	5%
Chrome	9	1	11.11%
Firefox	9	2	22.22%
MSIE 6	2	1	50%
MSIE 7	3	0	0%
MSIE 8	14	2	14.29%

### TOP5 countries

Country	Traff	Loads	Efficiency
US	33	1	3.03%
FR	5	1	20%
RU	3	0	0%
BR	3	0	0%
JP	2	1	50%

# crimepack

MAIN • REFRESH • REFERRERS • COUNTRIES • BLACKLIST CHECK • DOWNLOADER • IFRAME • CLEAR STATS • SETTINGS • LOGOUT

### overall stats

unique hits	loads	exploit rate
640	199	31%

### exploit stats

iepeers	msiemc	pdf	libtiff	mdac	java	webstart	activex	other	aggressive
						45	0	0	0

### hits

hits	loads	rate
3	0	0%
2	0	0%
532	184	35%
300	19	1.9%

### ats

ats	loads	rate
10 (0 loads)	0%	0 (0 loads) 0%

### ies

hits	loads	rate
284	91	32%

### Menu

- Simple statistics
- Advanced statistics
- Countries statistics

# Next-Generation Firewalls



Stable & static (static) week	\$50
DDoS & static (subscription)	\$50
Stub & static (polymorphic) a week	\$50 \$100
Spamming Trojan	\$50
DDoS bot	\$250
Web & media account creds	\$500+
Bank & email creds	\$500
Malware programs	\$20
Random assorted spam	\$500

# Next-Generation Firewalls Tools

		Объявление: Правила форума ХекСек (Администратор)		Просмотров: <b>15,124</b> ↗ 12.06.2007	
Тема / Автор		Рейтинг	Последнее сообщение ↗	Ответов	Просмотров
	Важно: Правила раздела "Сканеры и остальное" EnD1		08.08.2010 13:19 от EnD1 ↗	0	415
	USB thief luz3r		07.02.2013 20:37 от luz3r ↗	0	353
	Proxy Parser by BoYRinG Isd66		04.02.2013 03:28 от Isd66 ↗	0	127
	SYN Scanner for Proxy servers V1.0 + Serial Refcat		23.12.2012 18:15 от Refcat ↗	0	283
	phpinject Automised Tool f02		19.12.2012 15:27 от h4xer01 ↗	2	851
	SSL Cert Scanner Isd66		10.04.2012 11:55 от Isd66 ↗	0	698
	Remote Manipulator System 5.0+Crack Isd66		11.02.2012 02:17 от Isd66 ↗	1	829
	ArxWFakeGen Spitfire		20.01.2012 09:53 от Spitfire ↗	0	419
	DoSHTTP (1 2) balt		29.10.2011 21:31 от rrrrrr ↗	11	2,939
	TeamViewer 6.0 Build 11052 RePack MYSTIQUE		28.08.2011 20:12 от MYSTIQUE ↗	0	555
	IP Sniffer 1.99.2 MYSTIQUE		16.08.2011 21:56 от MYSTIQUE ↗	0	474
	RedEyes Software Host Monitor v1.7.7.1391 MYSTIQUE		31.07.2011 19:45 от MYSTIQUE ↗	0	333

# Create the attack

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[42](#) [43](#) [44](#) [45](#) [46](#) [47](#) [48](#) [49](#) [50](#) [51](#) [52](#) [53](#) [54](#)

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2. [WEB-Graphics by Garr1K](#)
3. [Пробью информацию о людях по РФ и UA](#)
4. [Варез, кардинг, DDoS, трояны, "способы" заработка, почтовые базы и т.п запрещены!](#)
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10. [Куплю] [брут](#)
11. [Куплю] [Куплю читы приватные Bad Company 2](#)
12. [Услуги] [Ищу человека.](#)
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24. [Продам] [VBulletin Bruteforce](#)
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# Create the attack

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[PDA](#)

Просмотр полной версии : [\[Продам\] EXE+PDF=PDF \( PDF Joiner v1.2.1 \)](#)

**EXE+PDF=PDF**

10.05.2012, 03:36

PDF Joiner v 1.2.1 (PDF + EXE = PDF)

[Ссылки могут видеть только зарегистрированные и активированные пользователи]

Программа для склейки исполняемых файлов EXE с файлами PDF.

Функции программы:

- Индивидуальный крипт для каждой склейки
- На выходе получается ПДФ файл ( filename.pdf )
- От юзера не требуется никаких нажатий на кнопки, достаточно просто запустить пдф файл и всё!
- После срабатывания сплойта у юзеру показывается нормальный обычный пдф файл.

Используется уязвимость libtiff CVE-2012-0283:

- Adobe Acrobat Reader 8.x - 8.2
- Adobe Acrobat Reader 9.x - 9.3
- Adobe Acrobat Reader 10.x - 10.1.3

Как это работает:

Вы берете EXE и любой нормальный ПДФ файл, который необходимо показать юзеру.

Программа их склеивает, и на выходе выдает ядовитый пдф файл.

При его открытии, достается EXE , достается ПДФ, ядовитый пдф заменяется нормальным пдфом и отображается юзеру.

Скачать:

[\\_](#)[Ссылки могут видеть только зарегистрированные и активированные пользователи]



# Create the attack

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[PDA](#)

Просмотр полной версии : [\[Продам\] EXE+PDF=PDF \( PDF Joiner v1.2.1 \)](#)

**EXE+PDF=PDF**

10.05.2012, 03:36

PDF Joiner v 1.2.1 (PDF + EXE = PDF)

[Only registered and activated users can use links here]

Program for joining executable EXE files into PDF

Software features:

- Individual cryptocode for each generated piece
- Easy output as a PDF file (filename.pdf)
- No user interaction no keystrokes, simply run the pdf file and that's all!
- Transparent operation for the user, look just like showing a normal pdf file.

Uses libtiff CVE vulnerability -2012-0283:

- Adobe Acrobat Reader 8.x - 8.2
- Adobe Acrobat Reader 9.x - 9.3
- Adobe Acrobat Reader 10.x - 10.1.3

How does it work:

Provide EXE and any normal PDF file you want the user to see.

The program will stich them together and the output produces an infected pdf file.

When it opens, finds EXE goes to PDF, PDF poisonous replace normal pdfom and displayed to the user.?

Download

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# Make stub & stitch

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[PDA](#)

Просмотр полной версии : [Продам] EXE+PDF=PDF ( PDF Joiner v1.2.1 )

EXE+PDF=PDF

10.05.2012, 03:36

PDF Joiner v 1.2.1 (PDF + EXE = PDF)

[Only registered and activated users can use links here]

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Download

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Filename  
File MD5  
File SHA1  
File Size  
Time Stamp  
Link to

[Show BB-Code](#)

Next-Generation Firewalls  
Set the trap and wait...





Empowered  
Employees  
& Wikileaks

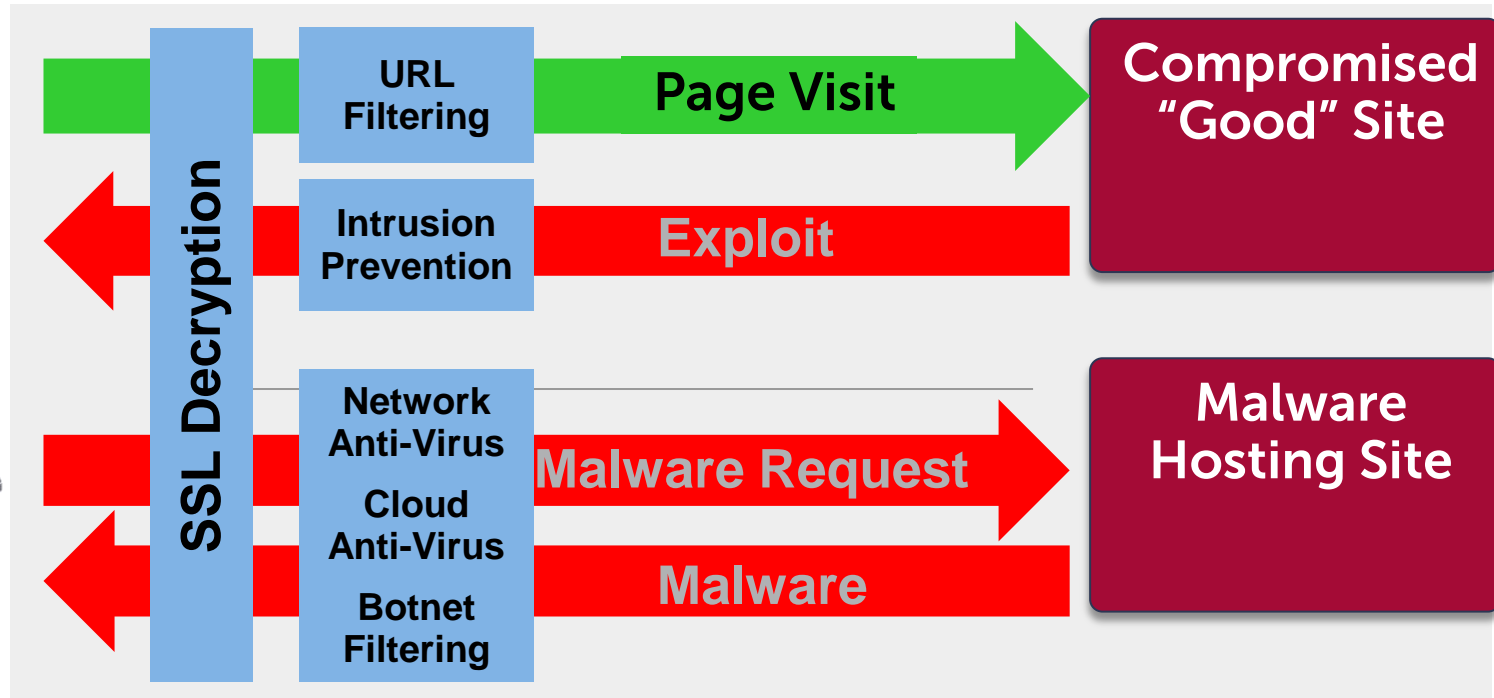
Advanced  
Targeted Threats  
Regin, Stuxnet, Epsilon, Aurora,  
Mariposa, Zeus, PlayStation, etc.

De-Perimeterization  
Virtualization, Cloud,  
Consumerization & Mobility

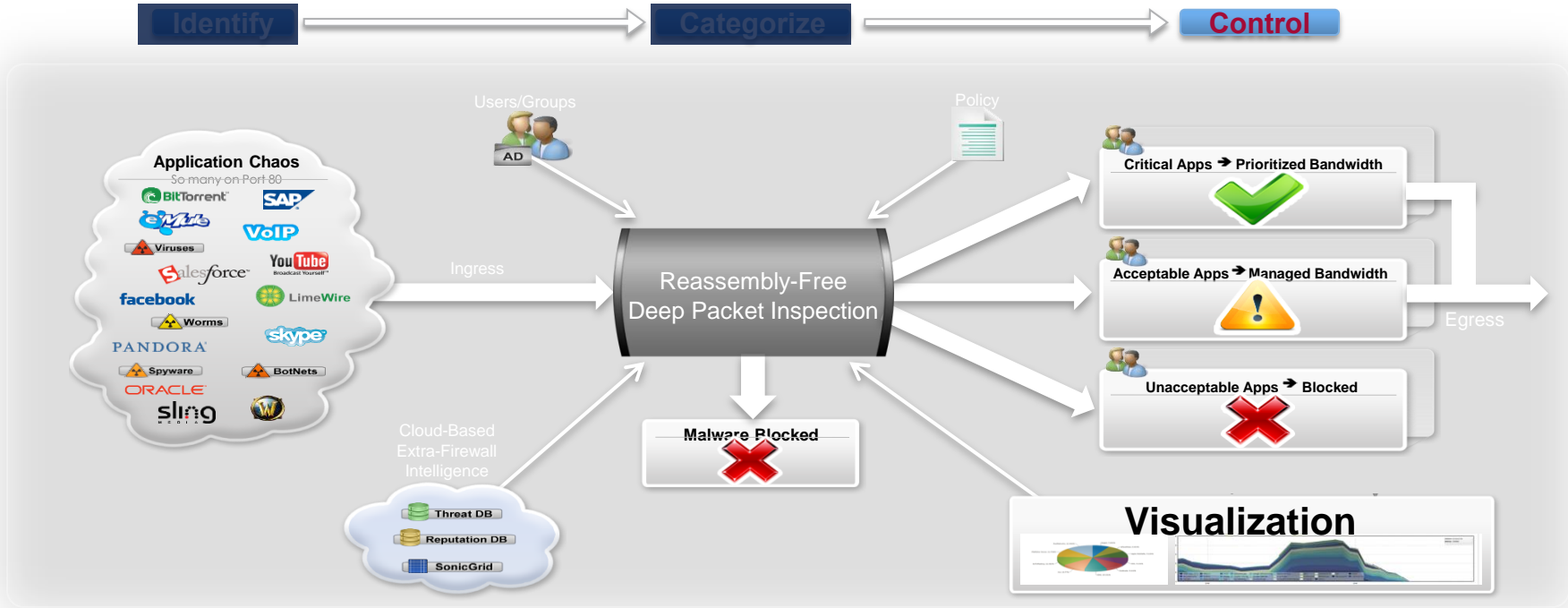


# How does an NGFW secure the network???

Breaks the malware cycle



# How does an NGFW control content???



# What does it take to build a Next-Gen Firewall???

Mode: Non-Config ▶



or  
€^&\*(-  
:qpl01!  
:ig%#1!  
:qpl01!  
:pwfi2n  
:\$fl!%1!  
:n3bx2  
:3ttfl!%#

Load Filter: -- Select/Input Filter --

...should provide easy but secure remote access

Data Source: Local

...should block exploit and offer virtual patching

Users | URLs | Initiators | Responders | Threats | VoIP | VPN | Devices | Contents

...should detect and remove malicious code

Interval: Last 60 seconds | Group: Application

...should inspect encrypted traffic

...should protect against DoS and DDoS

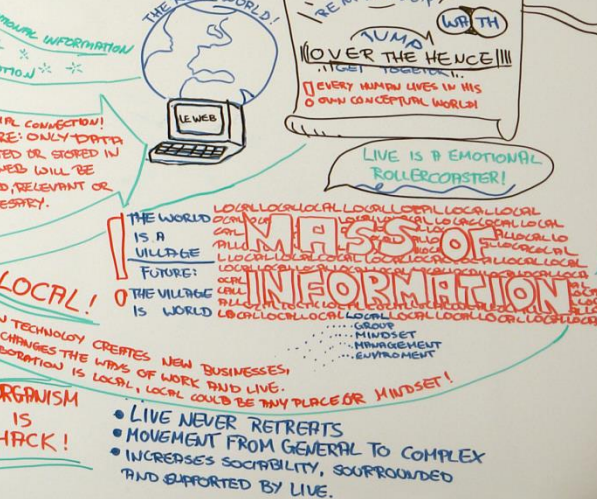
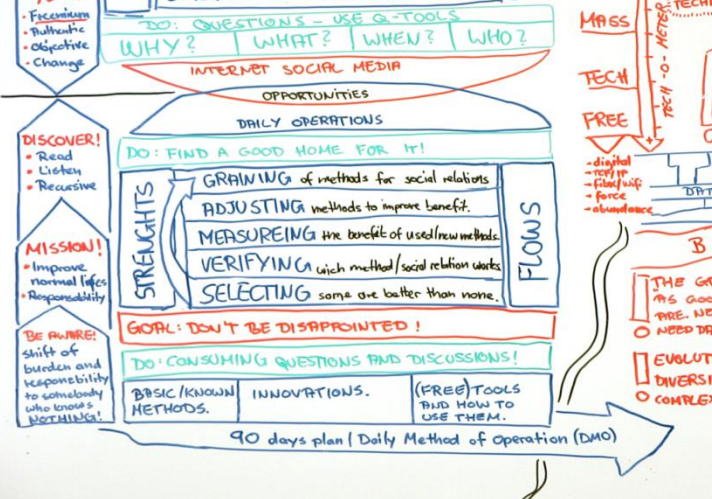
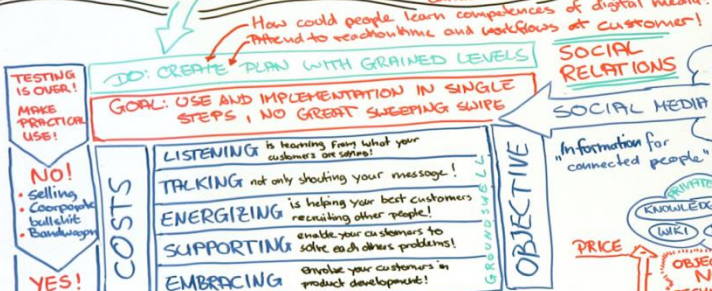
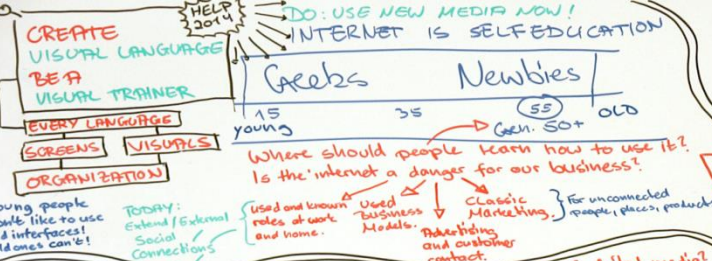
...should inspect all traffic regardless of protocol used

...should offer easy to understand reporting

...should all of above with high throughput

#	Application	Sessions	Total Packets	Total Bytes	Ave Rate (KBps)	Threats
<input type="checkbox"/>	1 Image	4	4.80K	4.75M	576.259	0
<input type="checkbox"/>	2 BitTorrent Protocol	107	5.41K	4.44M	0.535	0
<input type="checkbox"/>	3 HTTP	25	1.06K	859.08K	28.364	0
<input type="checkbox"/>	4 Encrypted Key Exchange	10	426	351.2K	0.319	0
<input type="checkbox"/>	5 Freerate	1	397	231.05K	4.352	0
<input type="checkbox"/>	6 Microsoft Windows (Browsing Platform)	10	426	310.58K	5.475	0
<input type="checkbox"/>	7 SSL	12	373	195.00K	1.794	0
<input type="checkbox"/>	8 Miro	2	237	167.10K	81.591	0
<input type="checkbox"/>	9 General UDP	21	707	37.47K	0.110	0
<input type="checkbox"/>	10 ScoreCard Research	3	66	50.20K	0.112	0
<input type="checkbox"/>	11 Raptr	2	46	9.81K	0.010	0





# TACK

(Permission to land | How to use free tools!  
MPS - Marketing)



# Dell Software Group



Simon Wikberg

security specialist

[simon\\_wikberg@dell.com](mailto:simon_wikberg@dell.com)

+46701166654

<http://livedemo.sonicwall.com>



The power to do more

