



I. Initiate the "black-white list" system based on big data



Transform traditional antivirus with big

In the era of big data, 360 innovatively combines the black list and white list to construct the new "cloud-based antivirus" system, transforming the old antivirus technology.

360 takes a leading role to initiate the "black and white list" system and cloud-based antivirus technology, becoming the model for global Internet security software.

Traditional security vendors

Traditional

antivirus

Regular upgrade of

the virus database

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VS

The leading "cloud-based antivirus" system of 360

- "Black and white list" system
- Cloud-based antivirus

technology and constant upgrade

QVM AI engine



360 redefines security

360 cloud-based antivirus: substantially squeeze the living space of Trojans and virus.

360 deploys over 10 thousand servers in the Cloud Security Center

10T newly added sample data and over 50 billion times of cloud user queries from the Internet each day

360 has the world's largest database of "black and white list"

The database of black list contains over 1 billion samples of malicious programs and the database of white list contains around 50 million samples of normal files, covering the operating systems and application software of over 99% Internet users.

360 cloud-based antivirus has dismantled the economic foundation of Trojan industry

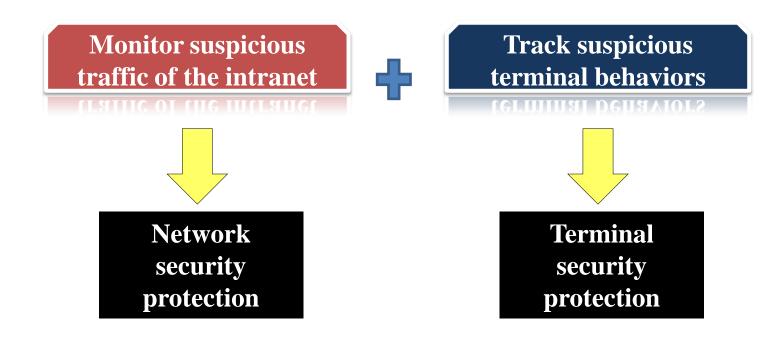
360 could realize the "sec-killing" of new Trojans and virus



II. Build the "cloud-based active defense" system with big data

World leading cloud-based active defense system

4D active defense system (files, registry, process, and network):





Big data provides "gatekeepers" with the analysis and capability to identify malicious attacks.

Timely identify the spread of malware

Identify the different "behaviors" and "trace" of malware and normal software.

- **◆**Malware: centralized outbreak and surging increase
- **♦**Normal software: slow development and curve growth

Provide criteria for judging network security

Identify intranet attacks through abundant data traffic analysis.



III. Deal with APT attacks based on big data





APT attacks:

Advanced Persistent Threat, APT

It is a advanced, long-term, and persistent attack on specific groups and enterprises by using all loopholes and attack methods. It is generally supported by organizations and states.

Advanced

- Custom Development with specific goals
- Various 0day
- Multiple ways of penetrations
- Social engineering

Persistent

- Highly latent
- Long-term and persistent attacks
- Multiple ways of activation

Threat

- Stealing secrets and sabotage
- Undetectable

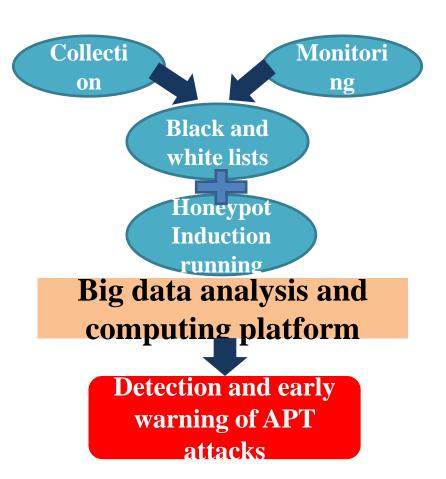


Establish the APT attack detection system based on big data analysis.

Form abundant data resources through sample collection and traffic monitoring

Conduct data mining with cloud storage and cloud computing, and establish the model of software and network behaviors.

Monitor and prevent abnormal attacks and visits.

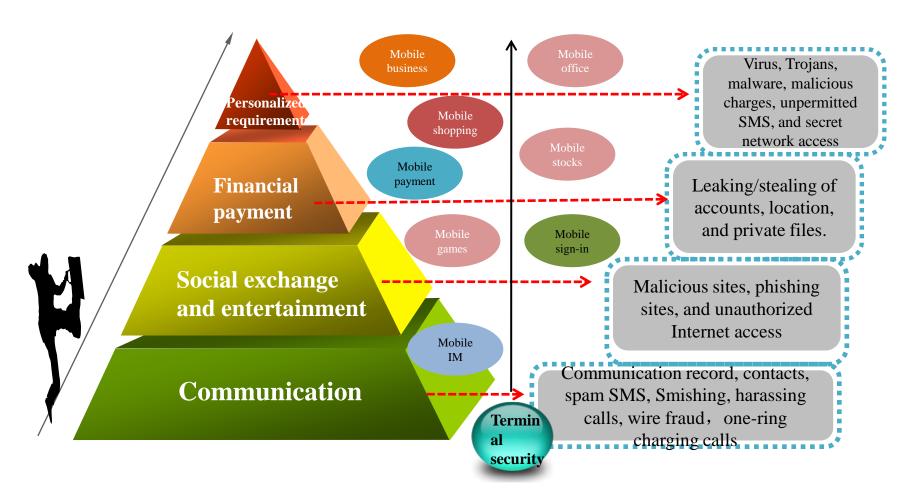




IV. Deal with fraud, harassment, and malware with big data

Network security expands to ubiquitous security

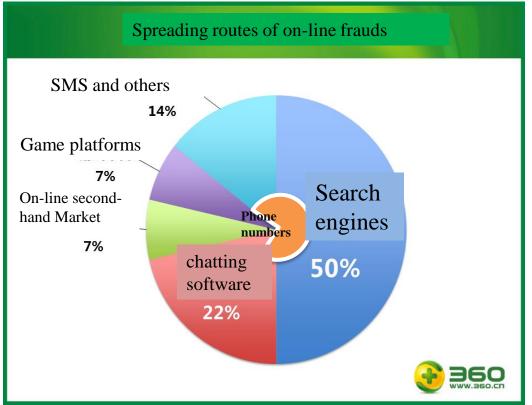
Increasingly serious network security



Gradual changes of customer needs



Internet fraud



Case I:

On April 18, 2014, a university student of Hebei lost around 16000 yuan in a wire fraud by the "fake police" and "fake court".



In Jun, 2014, movie star Tang Wei lost 210000 yuan in a wire fraud in Shanghai



Case II:

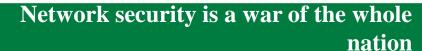
Fraudsters cheat users by fake sales of mobile phones and motorcycle through 21 websites, and put their websites in the top page in search sites by 100 yuan per day.

Cross-provincial wire fraud in

Guangdong

In the investigation, policemen tracked a "133..." mobile phone number and searched key words such as "Apple", "computer", and "motorcycle" to eventually uncover the crime







Harassing phone calls



In the first quarter of 2014, the **newly added** harassing phone call numbers reached **11.86** million;

The number of active harassing phone call numbers nationwide reached over **2.3** million per day;

In the first quarter of 2014, around **80 million** users labelled over **100** million times of harassing phone calls.

Spam SMS

In the first quarter of 2014, 360 Mobile Phone Guard intercepted **20.88** billion spam SMSs, **232** million per day in average.

Users report **61.30 million** spam SMSs, **681 thousand** per day in average.

The report & interception rate of 360 Mobile Phone Guard is 1 200/a



Inquiry, labeling and report









Growing bundling and harassment

Website popups-cheated



Search engine-fake promotion



Client popups-auto

6秒后将自动选择设置主页!

off

锁定主页,防止恶意程序篡改!请您立即锁定:
 かんの123
 ・ いっしょ
 ・ いっしょ

安全镇定主页

Client popups-traps

X

文里有 免费 WiFi

WiFi 名称: DubaWiFiWiFi 密码:

安装金融 Micinal Million (如果 2分钟)

获取免费WiFi

Client popupscompulsive bundling





Boycott: Pre-installation and bundling, and scampish promotion



Harassing ads and bundled software



Seldom-used and junk software



Fraud promotion and malicious attacks



Flooding bundled mobile phone and PC software

Vote with mouse. Protect user's right to know and right of choice.



V. Application of big data



Driven by the concept of "**free security**" of 360, China becomes the first nation with free security and antivirus service for users.

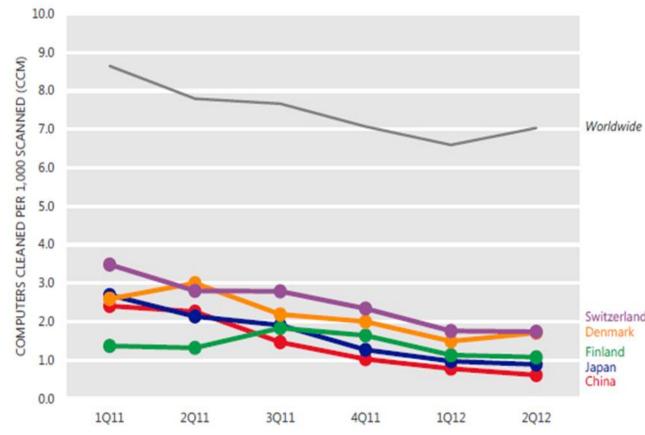
40 to 80 billion yuan RMB in security software is saved for Internet users each year

Intercept 130 billion spam SMSs each year
Intercept 64 million harassing phone calls each year
Intercept 2 billion times of bundled software each year
58 billion warnings for phishing and malicious attacks
The success rate of phishing websites is 1% only.



Microsoft: China reports the lowest infection rate in the world

According to the official security report of Microsoft in 2013, the infection rate of malware of Chinese PCs was 0.6‰, 1/10 of the global average. It makes China the nation of lowest infection.



In recent years, the infection rate of malware in China is decline rapidly. This is because the penetration of **free security software**, such as 360, has played a crucial role in the process. Currently, the penetration of PC security software has reached 99%

Driven by the concept of "fee security" of 360, China Switzerland becomes the first nation with free security and antivirus service for users

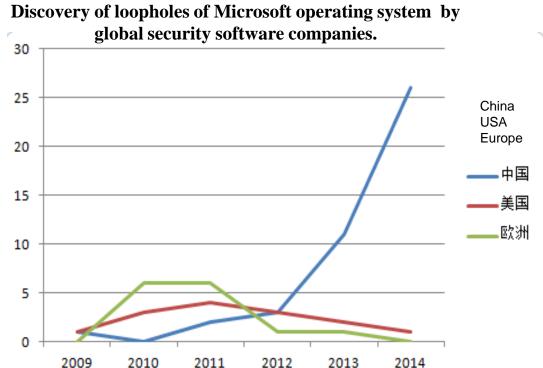
The Threat Landscape in China: A Paradox





360 Lab against loopholes

——The largest white-hat group of the Eastern Hemisphere





Currently, the number of loopholes reported to Microsoft by 360 ranks first in the world, far ahead of traditional giants as Symantec, McAfee, and Kaspersky.

So far, 360 has received **39** open letters of thanks, and has world-leading technologies in loophole discovery and professional protection.

360 reports 90% of loopholes discovered by Chinese security software companies.



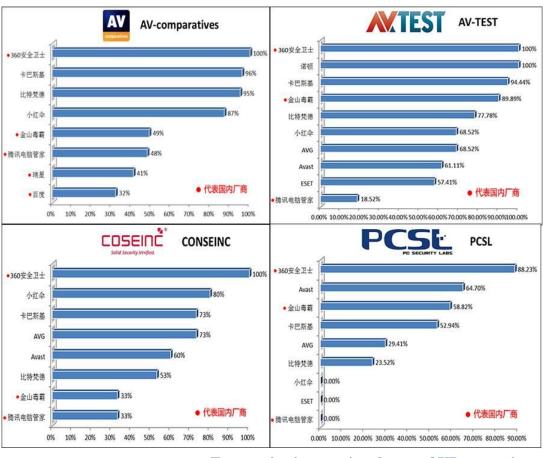
System protection

System protection and XP shield

360 initiates system consolidation, isolated protection, and other security technologies. As the only domestic security products of loophole defense, 360 is capable of defending back-

door attacks of operating systems.





Four major international tests of XP protection



