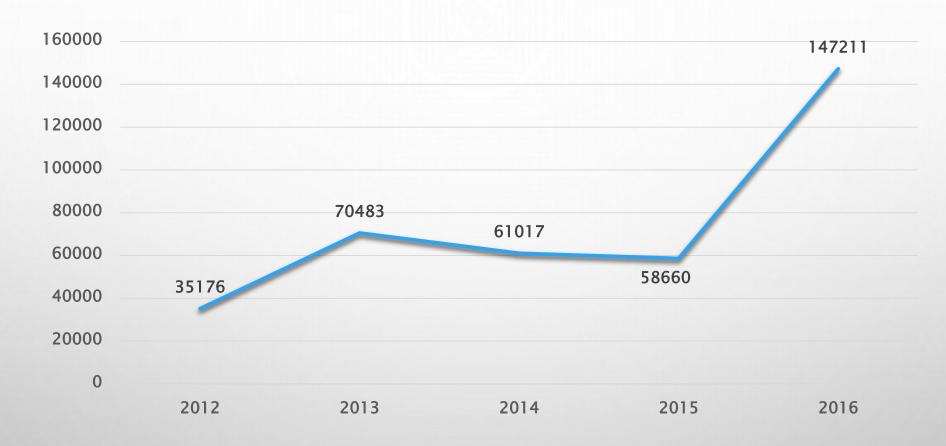
Improving Domain Names Utilization

Ning Kong

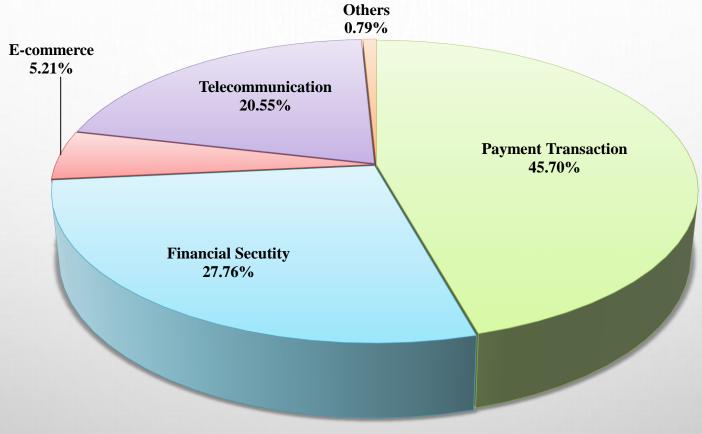
June 27, 2017



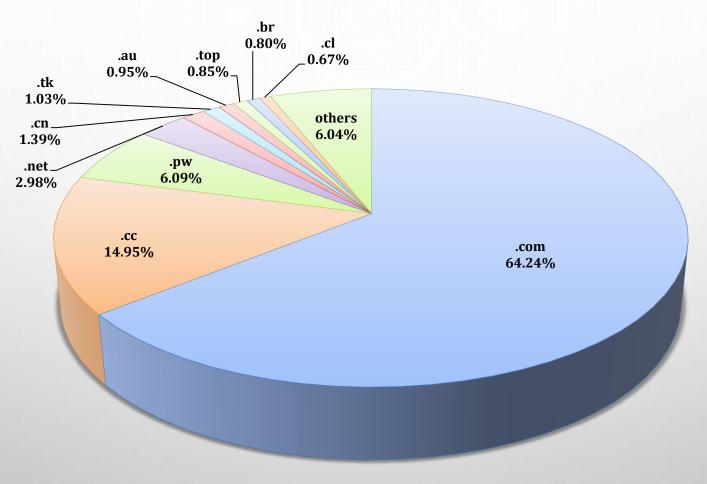




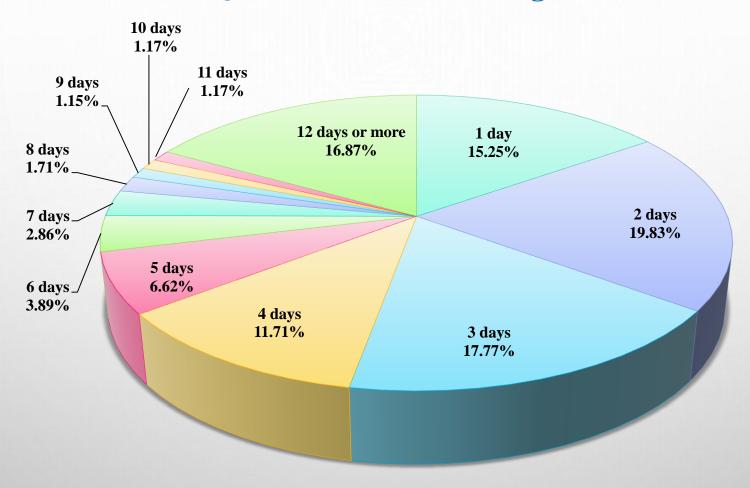
In 2016, The total amount of Chinese phishing websites is 147,211, which is 2.5 times bigger than that of 2015. Phishing attacks become more rampant and governance situation become more severe.



Distribution of Industries



Distribution of TLDs



Distribution of Phishing Websites Life Duration

Anti-Phishing Alliance of China (APAC)



- > Founded on July 18, 2008
- > A nonprofit industry organization
- **CNNIC** assumes the duties of secretariat
- > Official Website : www.apac.cn
- > Reporting Email: jubao@apac.cn



APAC Members









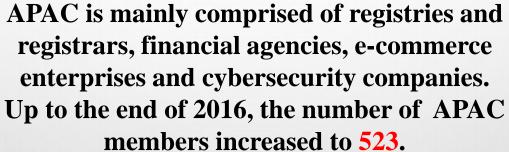




























APAC Duties



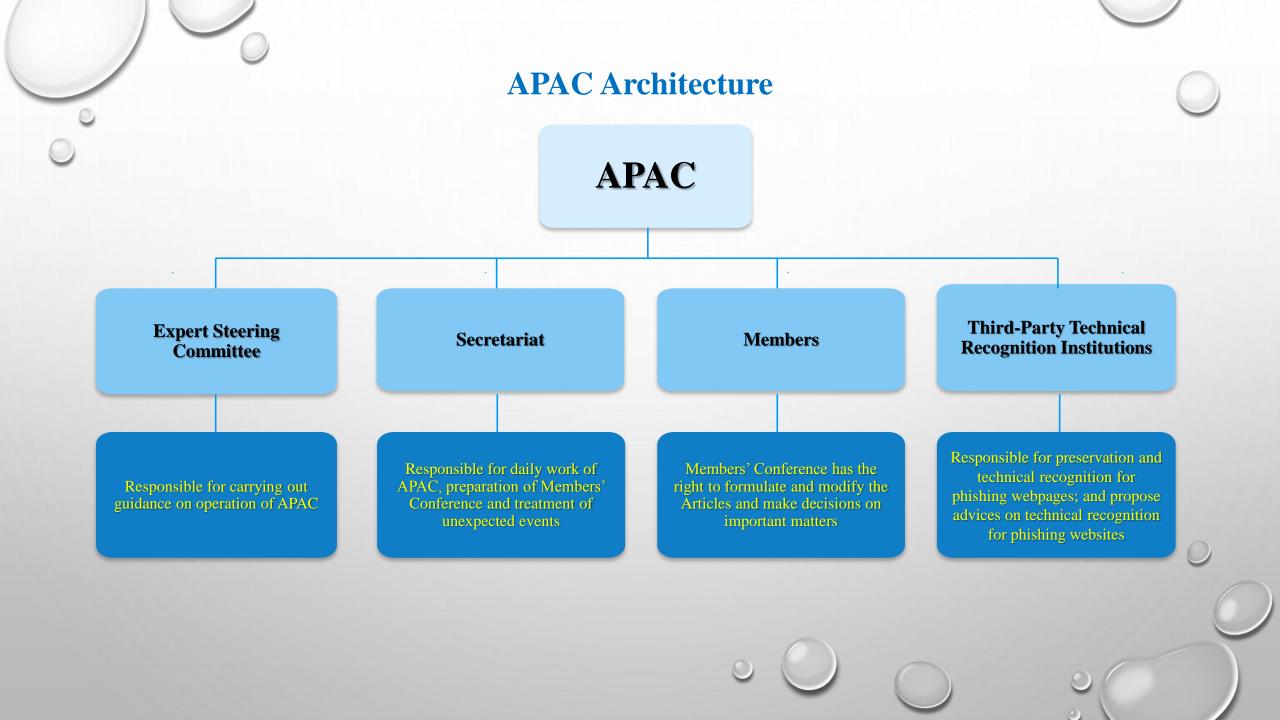
Organize members in finding out, governing and preventing from phishing sites, share relevant information and promote construction of comprehensive governance system



Organize and carry out investigation and research on anti-phishing, provide relevant business and policy consultation services for members as well as offer decision support for government



Perform international exchange and cooperation concerning legislation research, technical application and standard formulation





If the website is totally fake

APAC registries/registrars will suspend the resolution service

For Domain Names registered in China

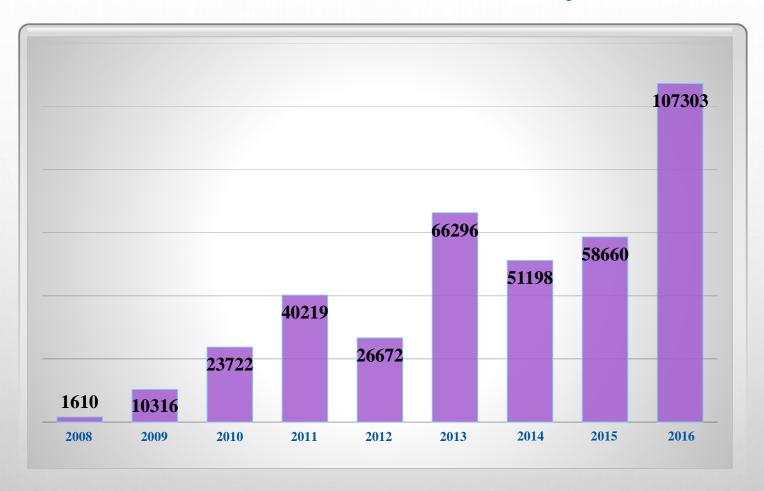
If the website is partly fake

APAC registries/registrars will inform registrant to delete the phishing webpages

For Domain Names registered outside China

PAC cybersecurity companies and browser makers will "tweet" warnings through theirs products when users visit phishing websites

APAC Treatment Efficiency



In 2016, the APAC has identified and processed a total of 107,303 phishing websites, accumulatively up to 385,996.

CNNIC's Contributions---Proactive Phishing Detection System

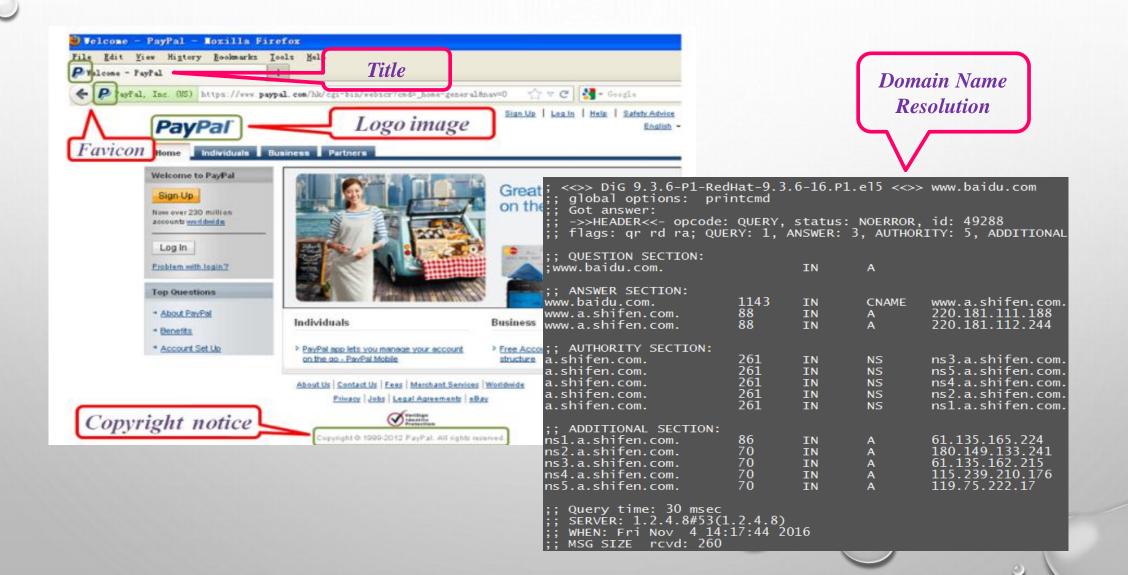


Since 2009, CNNIC has been focusing on the anti-phishing technical research, the "**Proactive Phishing Detection System**" is an important achievement.

The core of the system is based on the Big Data analysis for the machine learning of domain name utilization.

The phishing websites can be monitored and tracked from the registration phase, and can be discovered and disposed when they online.

CNNIC's Contributions---Proactive Phishing Detection System



CNNIC's Contributions---Proactive Phishing Detection System

Detection Capacity

- **©**In 2016, the system identified and processed more than 40,000 phishing websites of 80 brands
- **©**The life duration of phishing website detected by the system is 4.684 days, much shorter than the average number

Technical Achievements

- **©**CNNIC has published more than 10 academic papers and holds more than 10 anti-phishing patents
- **©** "Technical Specifications of Data Exchange for Reporting Phishing Attacks", the only anti-phishing industrial standard in China

CNNIC's Contribution---Reports & Briefings



The "Global Chinese Phishing
Attack Trends Report" analyzes the
phishing attacks targeting Chinese
brands and users over the world

Global Chinese Phishing Attack Trends Report



Briefing on Handling of Phishing Websites in March 2017

APAC releases Briefing every month, analyzing the situation of phishing website treatment

> Secretariat of APAC April 2017

Suggestions for Improving Domain Names Utilization



• Encourage registries, registrars, academic institutions to facilitate scientific research, data exchanging and technology sharing

Promote standardization on identification, sharing and disposal, and seek more cooperative chances with government agencies Strengthen universal education for end users, and heighten their awareness of online risks

Capacity Building

Enhance Supervision

Strengthen Education

Technic Disposal Awareness



THANKS!

Q & A