Phishing and Online Scams in China

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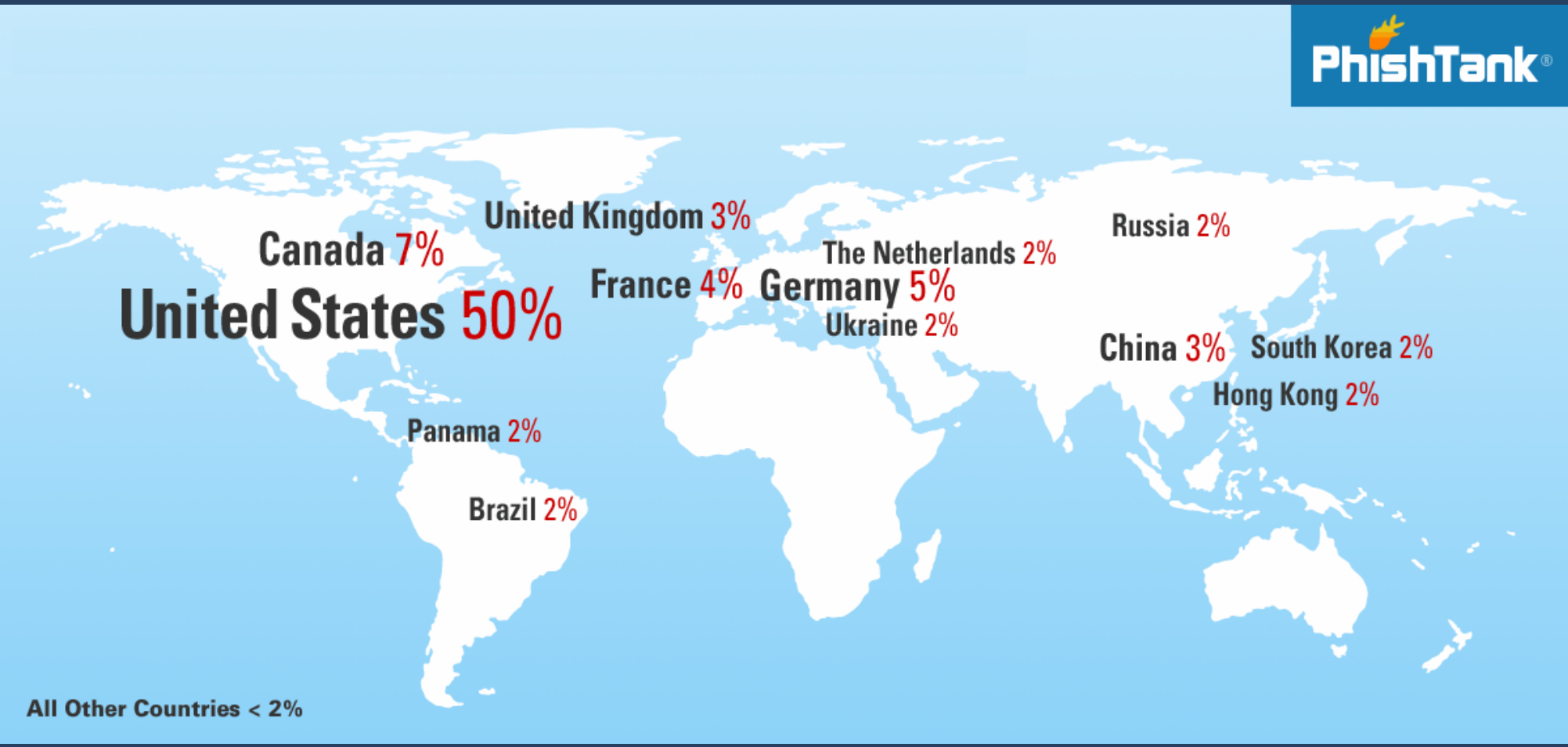
Who I am:

- Worked for Trend Micro Inc. (*2005 – Present*)
- Rich experience with virus sandbox (*2005 – 2008*)
- Rich experience as a JavaScript analyzer (*2008 – Present*)
- Web threat expert, focusing on HTML/Javascript exploits
- Now interested in phishing in China

Only 3% of phishing occurs in China



Do you believe this number?

All vendors don't focus on **China**

100+ phishing QQ sites found among 4M traffic

(reported by Trend Micro)


Phisher's bonus:
Large population
QQ.com: 640 Million
Taobao.com: 300 Million
Passengers at Spring Festival: 280 Million
Global WoW: 10 Million

Hot Phishing Event

target www.boc.com

- Over 500 phishing site in Feb
- Spread via SMS message
- Also includes other banks
  - CEB/SDB

Vulnerable Validation Procedures

E-Token from www.boc.com

- Password invalid after 60 seconds
- www.bocxx.com

Phishing in China

- More **prevalent** than drive-by websites
- **Three** categories:
  - lottery scams (**most common**), fake websites, fraudulent websites

fake websites/仿冒著名网站 **fraudulent websites /欺诈网站** **lottery scam/中奖骗局**

Lottery Scam

beyond traditional private information leakage

- **Over 70%** of scams, making it the **No. 1** category
- Fake webpages such as **QQ**, **games** & **CCTV**

A typical lottery scam

Step 1. IM/Email message: ***"Lucky you, go won a prize…"***

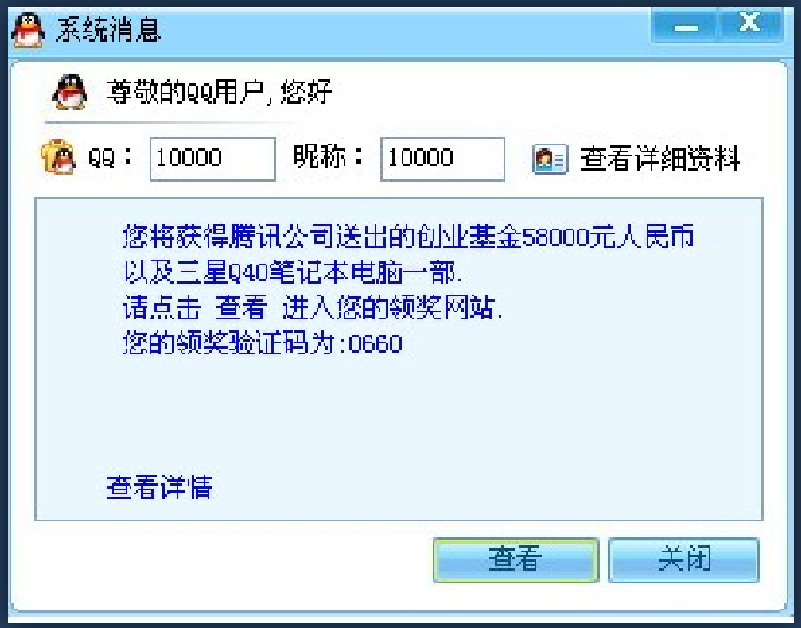
Step 2. A phishing webpage pretends to be the official site like ***QQ.com*** or ***CCTV.com, …***

Step 3. After clicking, the phishing site will ask users to pay income tax or notary fees first.

Where does the Phishing URL come from?

Chinese Instant Messenger

- A **special phenomenon** in China
- Notably from **QQ** & **Aliwangwang/阿里旺旺**



Where does the Phishing URL come from?

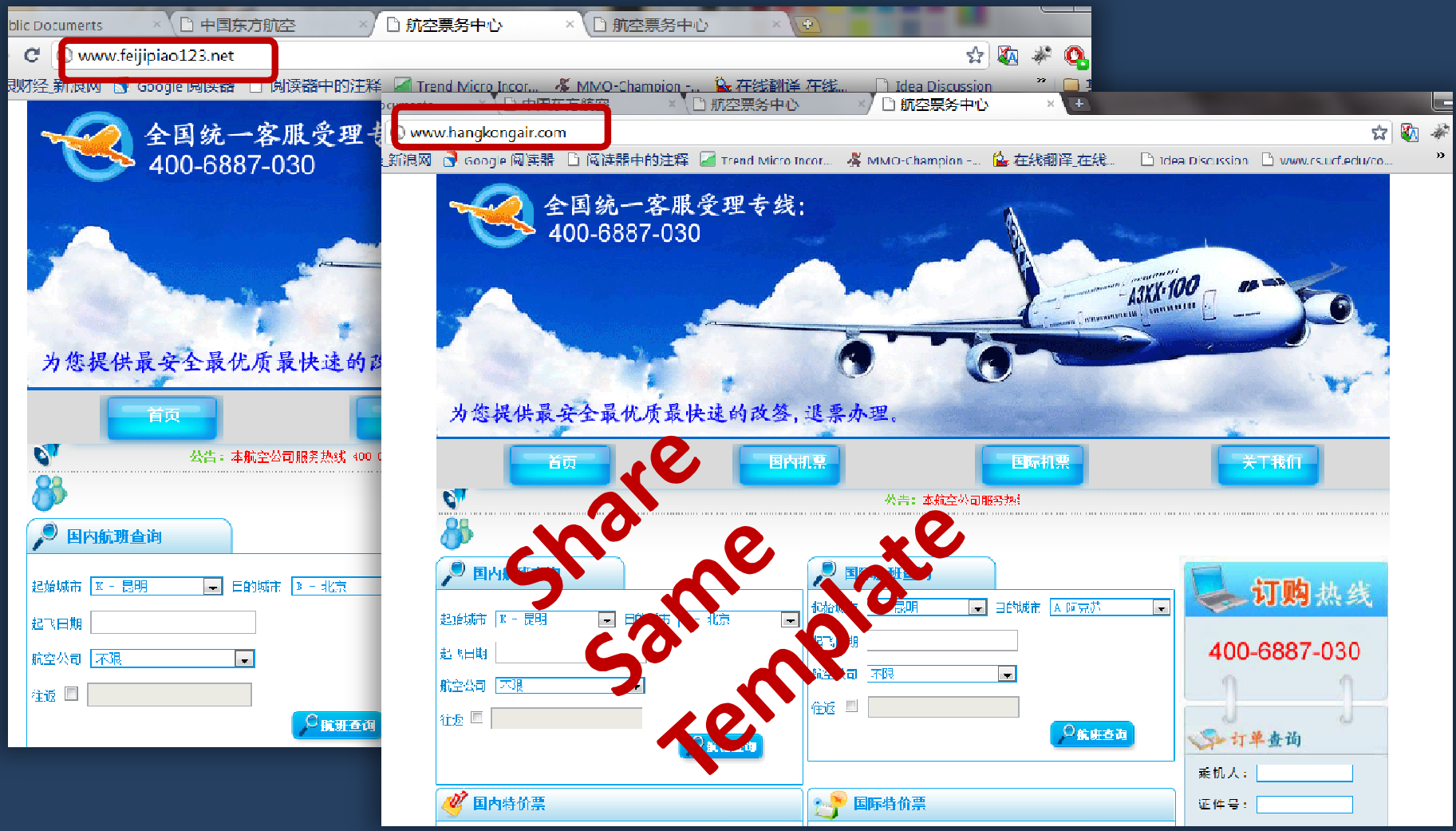
Comprised of a website & injected with Iframe in order to deliver phishing message

Money Driven

Fraudulent Websites

New Phishing without Target Brand

Delivered by AdWords



Scams with Stocks & Securities

for membership fees

Taobao Phishing == Money

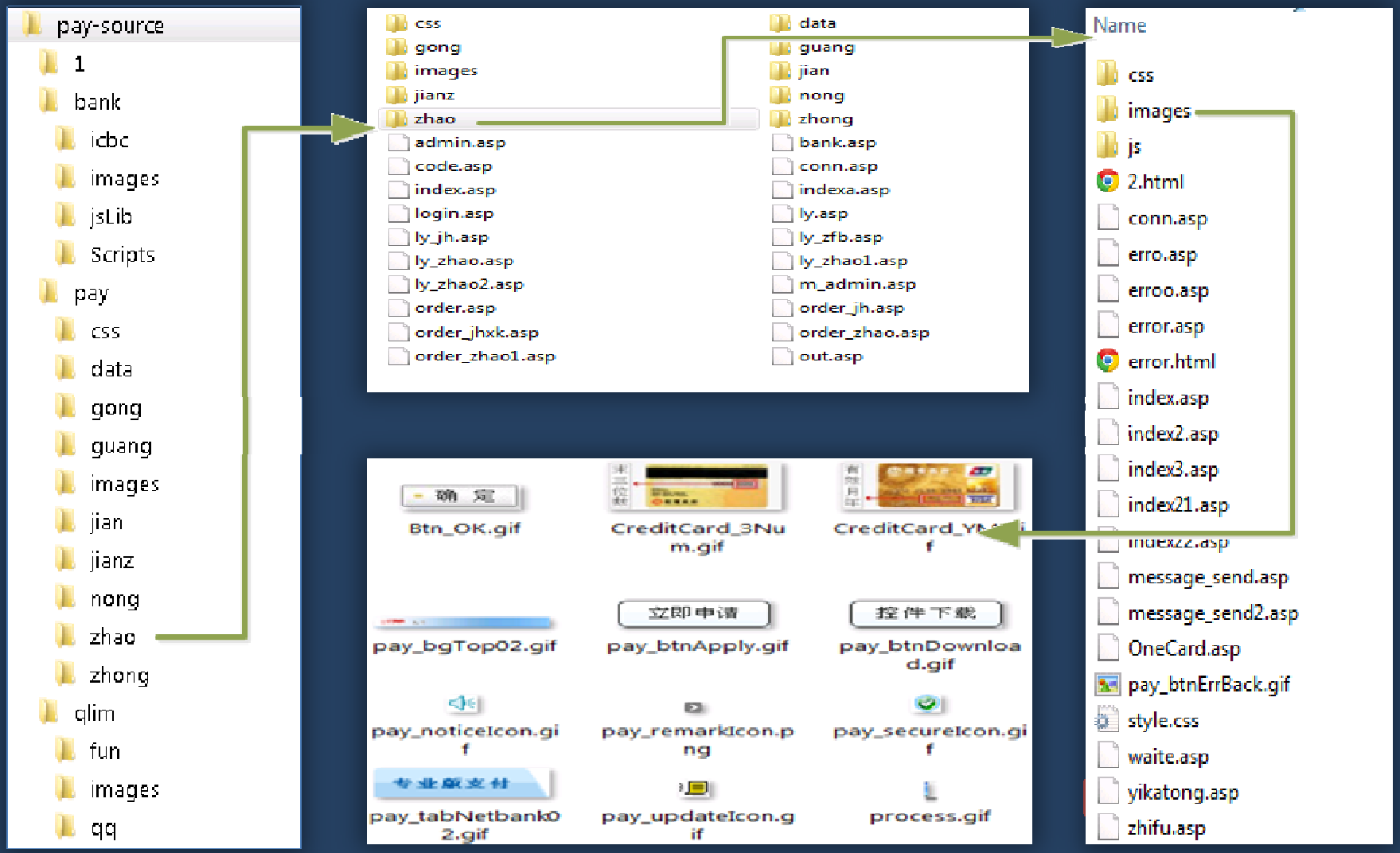
- Over 80 billion dollars in 2010
- AliPay = Paypal
- Supported by most Chinese eBanks

Taobao Phishing Demo

Phishing Web Site Source Code

- **Active** market
- Sell at a price **< ￥1000**
- Copied from a template

Source Code and Framework



Summary

Characteristics of Chinese Phishing Websites

- Lottery scam is targeted to **a few branded websites** which are then faked: QQ, Taobao, CCTV
- **Scams/fraudulent websites are** so popular and go beyond the traditional phishing scope
- **Short uptime** of phishing websites because they are easy to create
- **Visual/content similarity** among fake websites
- URLs are propagated by **IMs, BlackSeo** or **Comprised Servers**

?

Never Be Phished

Thanks