# Ontario Government – Town Hall Meeting

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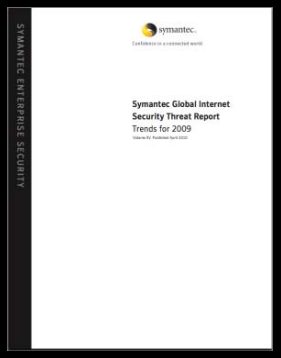
## The Problem

# A quick look at Cyber security 2009 by the numbers




**3,200,000,000**

attacks blocked by Symantec in 2009

- 12 new 0day vulnerabilities
- 14 new public SCADA vulnerabilities
- 321 browser plug-in vulnerabilities
- 4,501 new vulnerabilities
- 17,432 new bot C & C servers
- 30,000 domains hosting malware
- 59,526 phishing hosts
- 2,895,802 new AV signatures
- 6,798,338 bot infected computers

**240,000,000**

million new malware variants

•In the time it takes to give this presentation, we will block more than 540,000 attacks!

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# Information Explosion

## Cloud Computing

## Digital Devices

## Social Networks

facebook
StumbleUpon It!
plaxo beta
LinkedIn
YAHOO! 360° BETA
twitter
Windows Live Spaces
utterli
CREATE. CONNECT. SHARE. ANYWHERE.
remember the milk BETA
YouTube
reddit

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Underground Economy

Threat Trends

New “Industrial” Attack

# Internet Threat Landscape Trends

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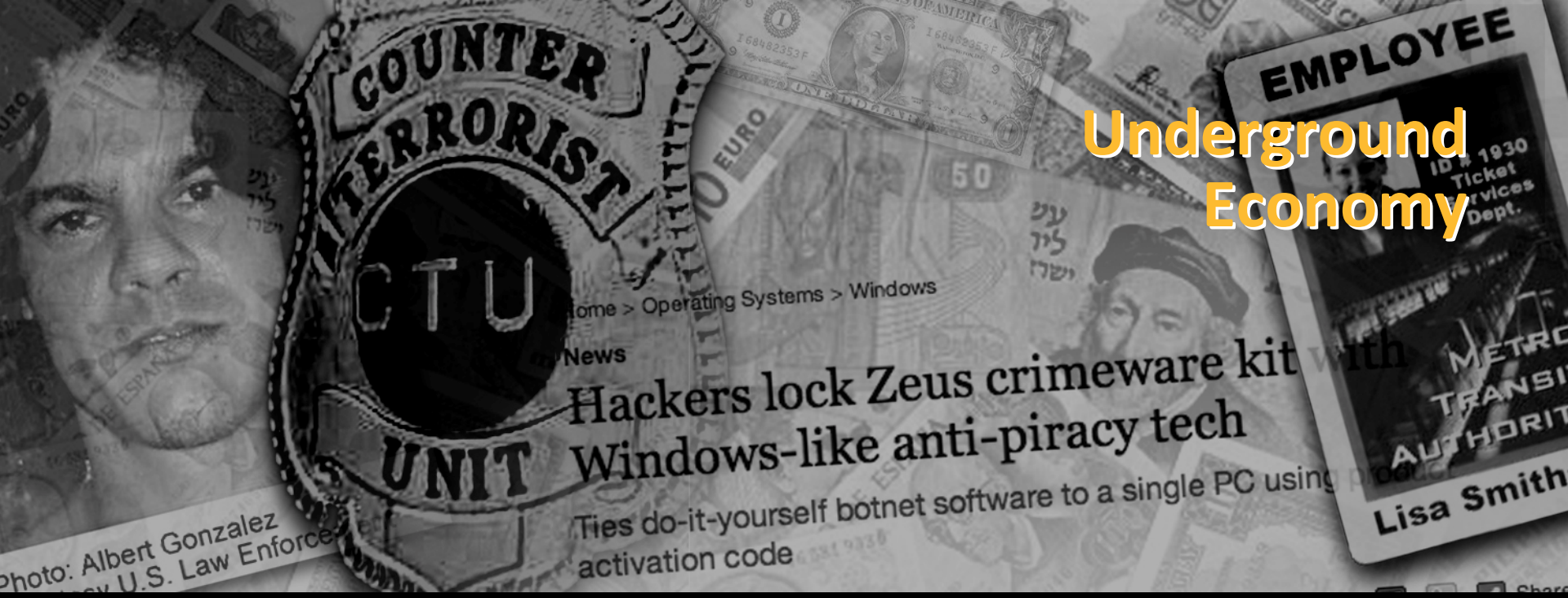


90% of threats are designed to steal personal information

The value of total advertised goods on the Underground Economy is

$280 million

The potential worth of the top UE seller is $6.4 million

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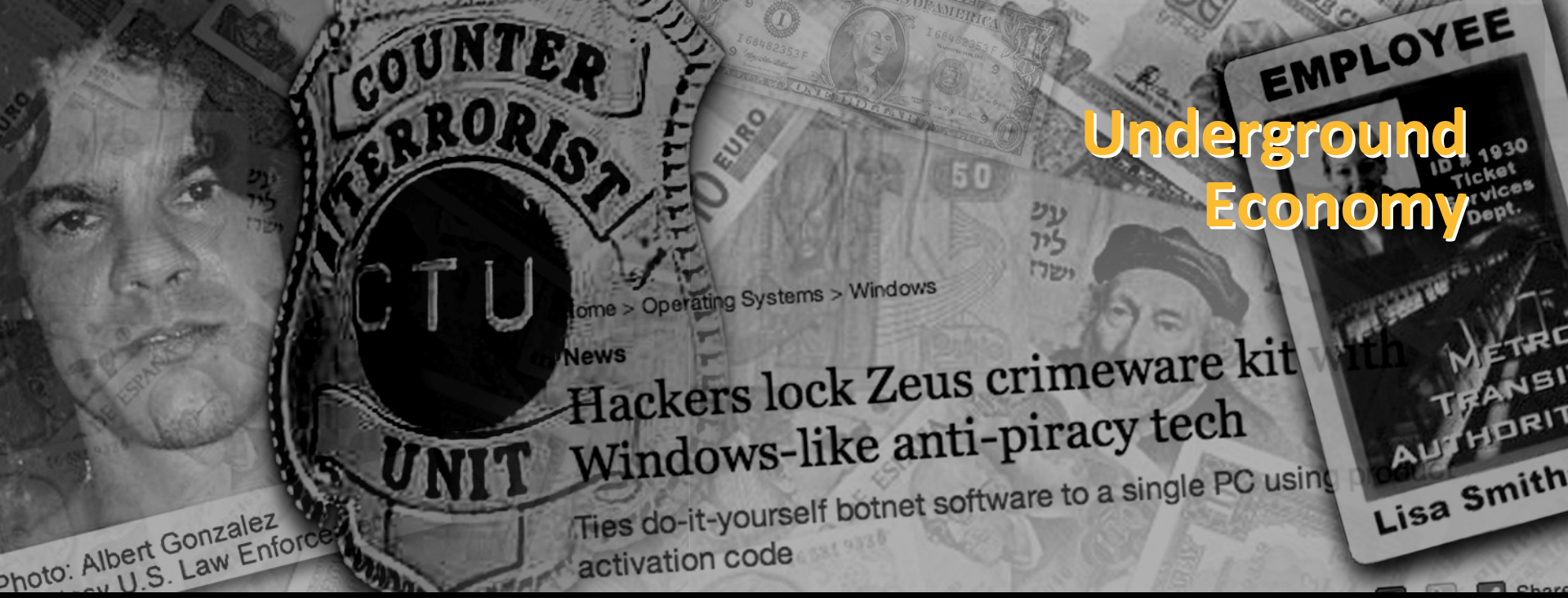


Credit card and bank account info. are the most frequently advertised items

| Rank | Item | Percentage | Range of prices |
|---|---|---|---|
| 1 | Credit cards | 23% | $2 - $20 or 50 for $100; $100 - $150 for 100, 1000 for $300 |
| 2 | Bank accounts | 18% | No specified prices |
| 3 | Email accounts | 11% | No specified prices |
| 4 | Credit card dumps | 6% | $15 - $120 |
| 5 | Email addresses | 6% | $10 - $20 per MB |
| 6 | Cash-out services | 5% | $400 - $500 or 50% - 60% |
| 7 | Full identities | 5% | $6 - $80 or 30 - 40 for $20 |
| 8 | Attack toolkits | 3% | $500 - $650 |
| 9 | R57 & C99 shells | 3% | $4 or 20 for $70 |
| 10 | Scams | 2% | No specified prices |

# Threat Trends:
## *Targeted attacks on Enterprises*

**75%** of enterprises experienced a form of cyber attack in 2009

**97%** of breaches in 2009, compromising 140 million records, used customized malware

**48%** of breaches involved insiders

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# Threat Trends: *Cybercrime in Canada*

64% of Canadians have experienced cybercrime

13% feel 'very safe' online

Only 1% do NOT expect to become a victim of cybercrime

24% admitted they 'don't feel safe' online

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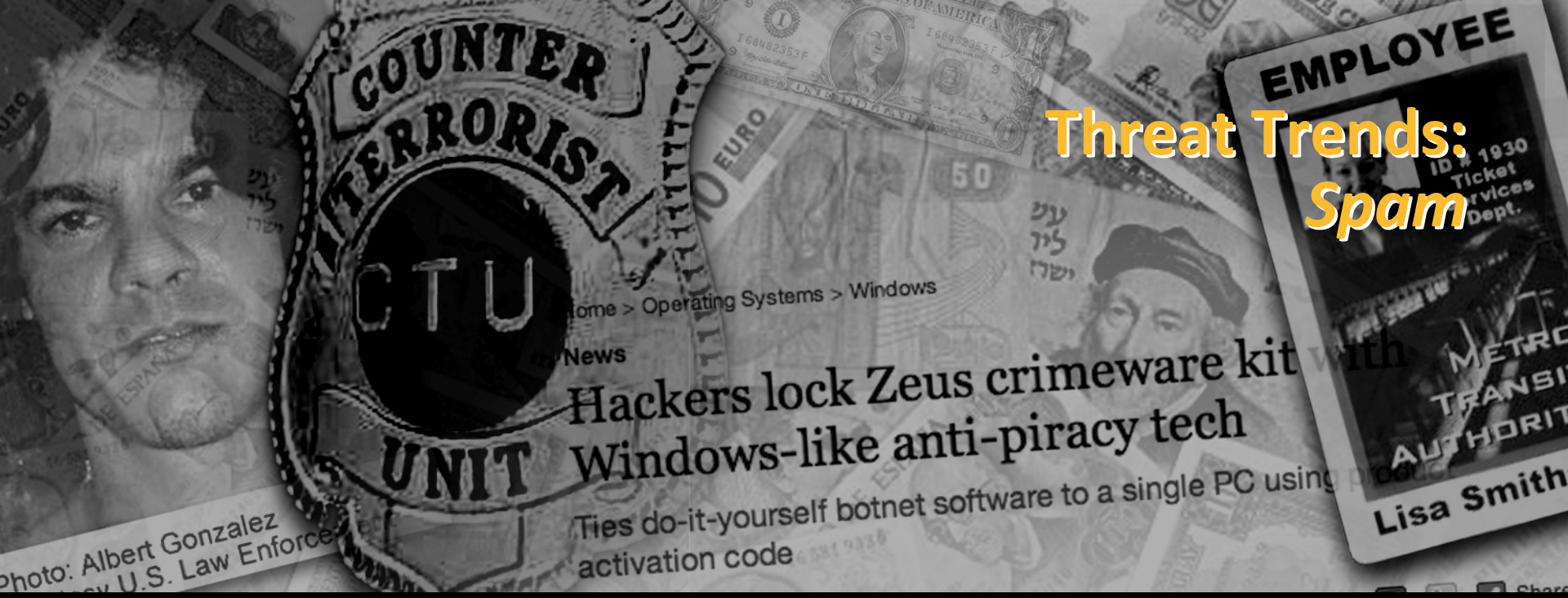


# Threat Trends: *Spam*

**14,600,000,000,000 (trillion)** spam messages were observed between July – September – 91% of ALL email was spam

New Brunswick is the most spammed province with a rate of **92.5%** (Ontario was No. 5 with 87.5%)

Hospitality industry, **92.3%,** is the most spammed sector, followed by Government/Public Sector at **90.5%**

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**On July 13, 2010 a unique form of malware was discovered that was attempting to take control of industrial infrastructure around the world**

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Denmark
mypremierfutbol.com
New Attack!
Malaysia
todaysfutbol.com

New Attack!
Stuxnet

# Addressing Today's Challenges

New approach to security: **Reputation-based Security Technology**

Utilizes **133 million** client, server and gateway systems in the Symantec community

- Takes away a hackers ability to make a file unique
- Improves performance – **80%** of system files can be skipped once reputation assured
- Identifies malware in an entirely new way
- Unique weapon against false positives (FPs)
- Policy- based lockdown

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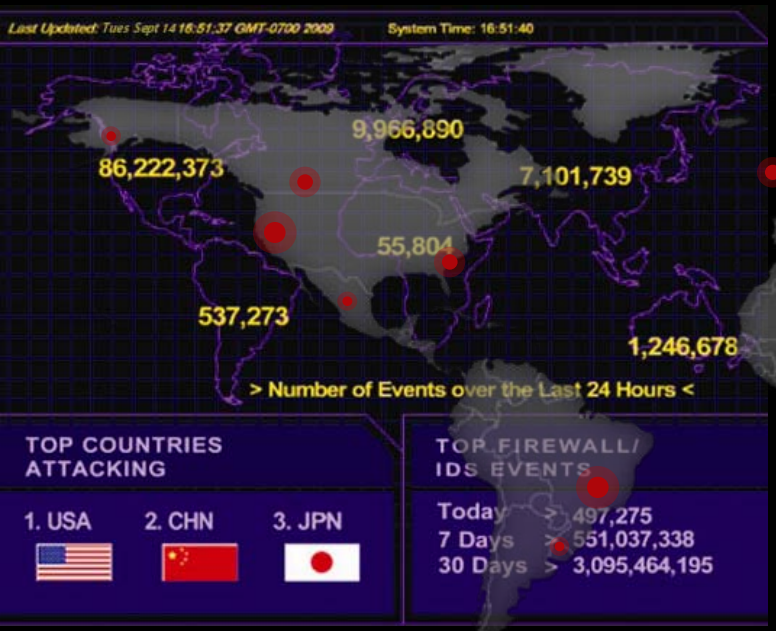


# Global Intelligence Network

240,000 sensors in more than 200 countries monitoring attacks

133 million systems to gather malicious code intelligence

5 million decoy accounts to capture spam and phishing data

8 billion email messages processed each day across 16 data centers

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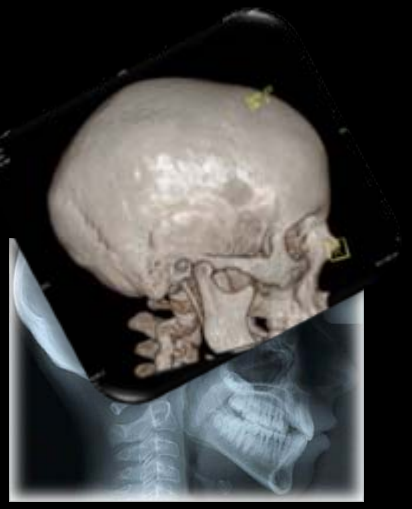
# Reputation-based Technology improves protection in three ways:

**It blocks entirely new malware that traditional fingerprints miss**



**It ratchets up the "resolution" of our heuristics and behavior blocking**

**It kills targeted and mutated malware, once and for all**

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## Since first introduced …

- The technology has blocked 6.7 million threats
  - Translates into 72% of all malware downloads ,ABOVE & BEYOND the protection already provided
- Its database now contains accurate safety ratings on more than 1.5 billion good and bad executable files
- New files are being discovered at the rate of 22 million each week
- Today the technology serves an average of more than 45 billion application safety ratings every month for customers
- The data confirms the original premise that malware today is largely micro-distributed – more than 75 percent of malware discovered by Reputation-based Technology affects less than 20 Symantec users

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# Addressing Today's Challenges

- Cloud computing, digital devices, social networking are driving the industry forward
- Targeted attacks will continue to be the focus of hackers
- Information is our greatest asset

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# What are the answers?

- Do you know where sensitive information resides and how to protect it?
- Can you lower costs AND improve your security posture by rationalizing your security portfolio?
- Can you enforce IT policies and remediate deficiencies?
- Can you control who has access to your information?
- Can you easily manage the lifecycle of your IT assets?

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# Thank you!

Michael Murphy

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