### **NORMAN®**

### Kriminalitetsutviklingen på Internett.

- Hva kan vi forvente videre framover?
- Hva gjør antivirusselskapene?

Christophe Birkeland CTO Norman http://www.norman.com/

# **NORMAN®**

### **Company Overview**

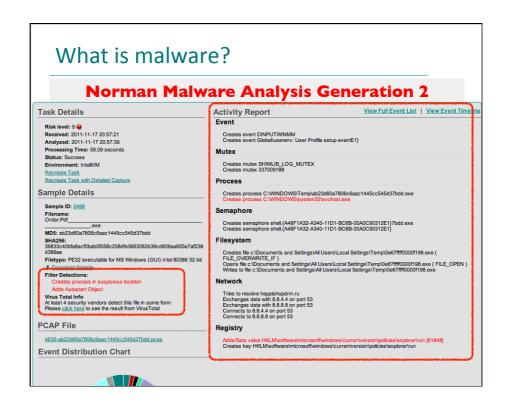
- Founded in 1984 HQ in Lysaker.
- Direct operations in 7 countries
- Approx 200 employees (R&D: 55 in Oslo, 25 in India, currently expanding)
- Markets: Consumers, Business, Government, OEM, Industry
- 40.000 Business Customers
- Over 2500 Partners worldwide
- Strong partnerships with key industry leaders

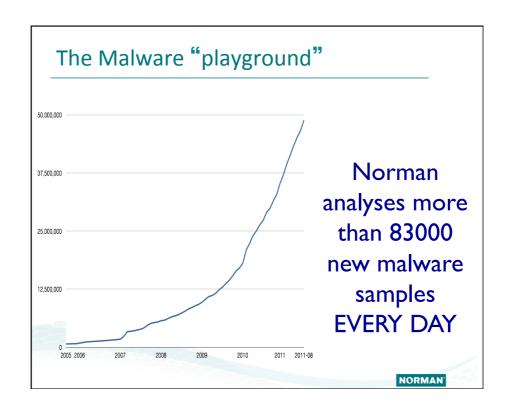


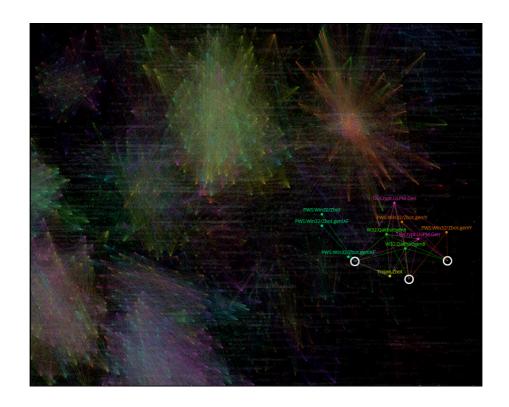


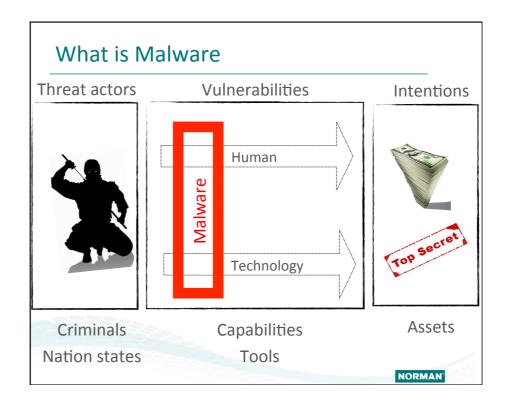
### Overview

- Cyber crime & Threat picture:
  - WHAT
  - WHY
  - WHO
- Advanced Persistent Threat (APT)
- Advices What can we do?









### WHO

- Criminals
- Nation states
- Terrorists
- Individuals / small groups (ex. hacktivists)

### **WHO**

### WANTED BY THE FBI

Wire Fraud; Conspiracy to Commit Computer Fraud; Computer Fraud

# **BJORN DANIEL SUNDIN**



Photograph taker

ETTERLYST AV FBI: Svenske Bjørn Daniel Sundin risikerer 480 års fengsel om han noensinne blir stilt for en amerikansk domstol. Foto: FBI

Ifølge tiltalen i USA startet Sundin selskapet Innovative Marketing som solgte virusbeskyttelse til privatpersoner. Programmet de solgte beskyttet ikke mot noe som helst, og mellom 2006 og 2008 håvet Sundin og hans partner inn verdier for rundt 1,4 milliarder svenske kroner.

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Cybercrime investigation

# LEADING RUSSIAN SECURITY FIRM GROUP-IB RELEASES 2011 REPORT ON RUSSIAN CYBERCRIME

Russian Mafia Organizes Russian Cybercrime Market, Doubles in Size

#### Key Trends in 2011:

- Inelia Russian Cybercrime Doubles: The global cybercrime market was more than \$12.5 billion in 2011. The global Russian speaking component of that market was more than \$4 billion; and the Russian national cybercrime market was \$2.3 billion, essentially doubling last year's number of \$1.2 billion.
- Mafia Professionalizes Russian Cybercrime: Traditional crime syndicates are beginning to organize the previously disorganized Russian cybercrime market. In addition, these crime syndicates are beginning to work more closely together, sharing compromised data, botnets, and cashing schemes.
- Online Fraud and Spam Account for More than Half of Russian Cybercrime: In 2011, the largest type of Russian cybercrime was online fraud at \$942 million; followed by spam at \$830 million; cybercrime to cybercrime, or C2C (including services for anonymization and sale of traffic, exploits, malware, and loaders) at \$230 million; and DDoS at \$130 million.

### WHY – ADVANCED ATTACKS / ESPIONAGE

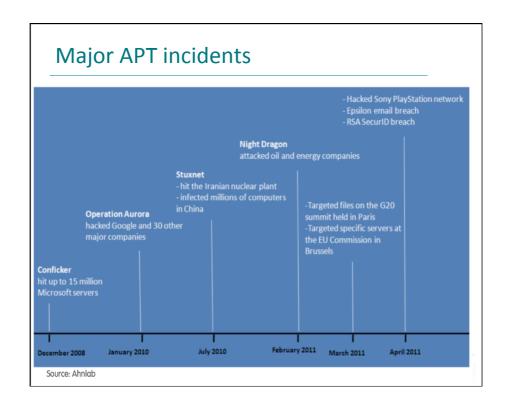
# **Advanced Persistent Threat (APT)**

**Advanced** = it gets through your existing defense.

**Persistent** = it succeeds in hiding from your existing level of detection.

**Threat** = it causes you harm (threat actors with capabilities and intent)

Gartner Aug'11



### WHAT CAN WE EXPECT?

- Why do you rob banks?
  - "Because that's where the money is."

Willy Sutton

### **Expect:**

- More cyber crime, profesionalized
- More advanced attacks
- Attacks targeting smartphones / tablets
- Attacks on industrial systems

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### 2012 Cybercrime trends

- Trend #1: The Trojan Wars Continue
  - Banking trojans (Zeus, SpyEye, etc.)
  - Mobile platform trojans
- Trend #2: Cybercriminals will Find New Ways to Monetize Non-Financial Data
  - Currently: spam mailing lists, dates of birth (DOB), and unfiltered Trojan logs.
- Trend #3: Fraud-as-a-service
  - elaborate sets of compromised credit cards, account logins, trojans for sale, botnets for rent,...
- Trend #4: Out-of-band Methods
- Trend #5: The Rise of Hacktivism

RSA 2012 CYBERCRIME TRENDS REPC NORMAN

# What does the IT security industry do?

Traditional protection such as AV and FW is not enough.

Defense in Depth - Layered security

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### Advice to deal with the threat picture

- Endpoint security a secure baseline:
  - Reduce vulnerability with application and device control and patch management
  - Updated antivirus
- Network Security Monitoring
  - Network analysis / context information
  - Network appliances for malware detection, analysis and prevention
- Detect, react, mitigate
  - · Incident response and Malware analysis tools

### Advice to deal with the threat picture

- Endpoint security a secure baseline:
  - Reduce vulnerabili Norman Device Control ntrol and patch manage Norman Application Control
  - Updated antivirus
    Norman Patch & Remediation
    Norman Endpoint Protection
- Network Security Monitoring
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  - Network appliances for malware detection, analysis and prevention
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- Detect, react, mitigate
  - Incident response a Norman analysis tools
    Malware Analysis G2 NORMAN

### Thank you!

Christophe Birkeland

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