Digital Convergence: New Services and Threats

Household Internet Access Rate

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>78.4</td>
</tr>
<tr>
<td>2007</td>
<td>79.8</td>
</tr>
<tr>
<td>2008</td>
<td>80.6</td>
</tr>
</tbody>
</table>

Source: NIDA, Internet Usage Survey, 2008

Household Internet Access Methods

<table>
<thead>
<tr>
<th>Access Method</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>xDSL</td>
<td>83.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable Modem</td>
<td>24.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APT LAN</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless LAN</td>
<td>2.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FTTH</td>
<td>5.7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: NIDA, Internet Usage Survey, 2008
What is Cyber Security?

Technical, policy and legal actions to prevent and respond to threats, such as cyber crime, pursuing to make cyberspace, including Internet, more secure, trustworthy and warm space.

Secure, trustworthy and warm cyber space

Technical Measures

Policy Measures

Legal Measures
Status quo of Botnet

IRC BOT

Bot Herder

Command & Control Server

Zombie

Massive Spamming

Distributed Denial of Service

Victim Server

Phishing
Objective

- Lead the future of national cybersecurity initiatives, especially in the developing countries

Method

- Designing and delivering the blueprint for building secure and trustworthy ubiquitous society

Korean experience

- Periodical Review and Renewal of Cyber Security (every 2~3 years)
  - In 2008, Internet Security Master Plan
- Lesson learned from January 25 Internet break-down by Slammer Worm
- Korea’s financial loss rate: from 12%(2003) to 2.5%(2008)
Holistic Approach to Cybersecurity

Proactive and Harmonious Cybersecurity Initiative
- Prerequisite - Unified and Integrated Organizational System
- Develop and Implement National Cyber Strategy
  - Setting up the unified organization carrying out cybersecurity policy best fit for the country and based on the comprehensive research

Korean Experience: Korea Information Security Agency
- Integrated agency dedicated cybersecurity Synergy Effects

Korea Internet Security Center
KrCERT/CC
KISA
Root Certificate Authority
Security Product Evaluation and Accreditation
Privacy Protection Center
SPAM Response Center
Critical Information Infrastructure Protection
Policy development Support
Domestic Cyber Security Cooperation

Central Coordinator Role in the cooperative Response Framework

Internet Service Providers
Internet Data Centers

Anti-Virus Vendors

Managed Security Service Providers
International Cyber Security Cooperation

**Joint Int’l Incident Handling Coordination Drill**

- Enhance the cooperation and capability among members
- Get ready and build the rapid response capability

**Training Course for CERT/CSIRT Building**

- Target developing countries including Pacific countries
- Kiribati invited first time in the last year

2008 APCERT Incident Handling Drill

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Thank you