

By Professor Yoshiyasu Takefuji (June 20, 2013)

BAD GUYS	DEFENDING GUYS (WE)
<ol style="list-style-type: none"><li>1. They have been sharing information in real time for earning more money.</li><li>2. They can verify whether their tools cannot be detected by the existing commercial products in the market.</li><li>3. They can earn more money by improving their tools.</li><li>4. They can organize a large group globally.</li><li>5. They can hide by themselves.</li><li>6. They can hire experts by earned money.</li></ol>	<ol style="list-style-type: none"><li>1. We have not been sharing information in real time for defense. We don't want to disclose security information, because companies or governments are afraid of losing reputations.</li><li>2. It is extremely hard for us to obtain their latest tools. In other words, we cannot verify our security defense.</li><li>3. We cannot earn money through defense security, rather we can lose money.</li><li>4. We are not well organized. Each company must defend alone against organized bad guys.</li><li>5. We are opened in public.</li><li>6. Each government does not have enough security experts because governments are not aware of the importance of security problems.</li></ol>

What should we do?

- Stronger encryption technology is needed.
- Information sharing is needed.
- A company should be well organized with other companies.
- We should disclose hidden criminal groups.
- Unknown threats should be disclosed.
- We need a new paradigm shift.