

## Abstract

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### The Trend of Changes in Hacking in the International Society and Countermeasures

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The purpose of this research is to examine the trends of changes in hacking in the international society based on the recognition of sovereignty in cyberspace and to present Korea's countermeasures against hacking by analyzing principal agent, technique, and target of hacking.

Hacking is expected to become more advanced as it continues to increase, so efficient preparation, management, and response systems are needed. In particular, it is time for Korea to actively seek countermeasures against hacking in preparation for cyber disputes as discussions on sovereignty in cyberspace have been active in the wake of the fourth industrial revolution and the Internet of Things era. As a countermeasure against hacking, I'd like to propose a plan to establish a so-called 'Cyber peace regime on the Korean Peninsula'.

In order to establish a cyber peace regime on the Korean Peninsula, Korea should take the initiative in forming a cyber international cooperation network through various cooperation with the international society. And to that end, Korea must strengthen international cyber partnerships and strengthen multilateral and bilateral cyber international cooperation with neighboring countries on the Korean Peninsula, including the United States, Japan, China and Russia, to deter cyber-attacks. Furthermore, as a leading cyber country, it must maintain a neutral and universal position regarding the establishment of cyber international norms, along with support for cyber-latecomer countries.

In order to promote the establishment of a cyber peace regime on the Korean Peninsula, first of all, at the international level, Korea should take the initiative in international governance in cyber fields such as UN GGE to strengthen international cooperation on cyber. Next, at the regional level, cyber international cooperation will be promoted through multilateral cooperation rather than bilateral cooperation in the surrounding areas of the Korean Peninsula and in Northeast Asia. Finally, at the level of individual countries, Korea should actively push ahead

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bilateral or multilateral cyber cooperation with major cyber-related countries such as the United States, Japan, China, and Russia.

Meanwhile, regarding North Korea, Korea will issue North Korea's hacking into international issues and encourage sanctions through international cooperation. At the same time, it is aiming for a cyber deterrence effect by leading North Korea to discuss international cyber norms.

In order for Korea to play a leading role in building a cyber peace regime on the Korean Peninsula, it is necessary to establish cyber principles that clearly reflect Korea's position and persuade the international society. Therefore, in order to establish such Korea's cyber principles, the so-called 'Basic Law on National Cyber Security', which has a basic legal nature, should be enacted. Through this, it will be possible to set up cyber-related agencies and express cyber-wide principles.

<b>Keywords</b>
hacking, hacking techniques, cyberspace, sovereignty, security