

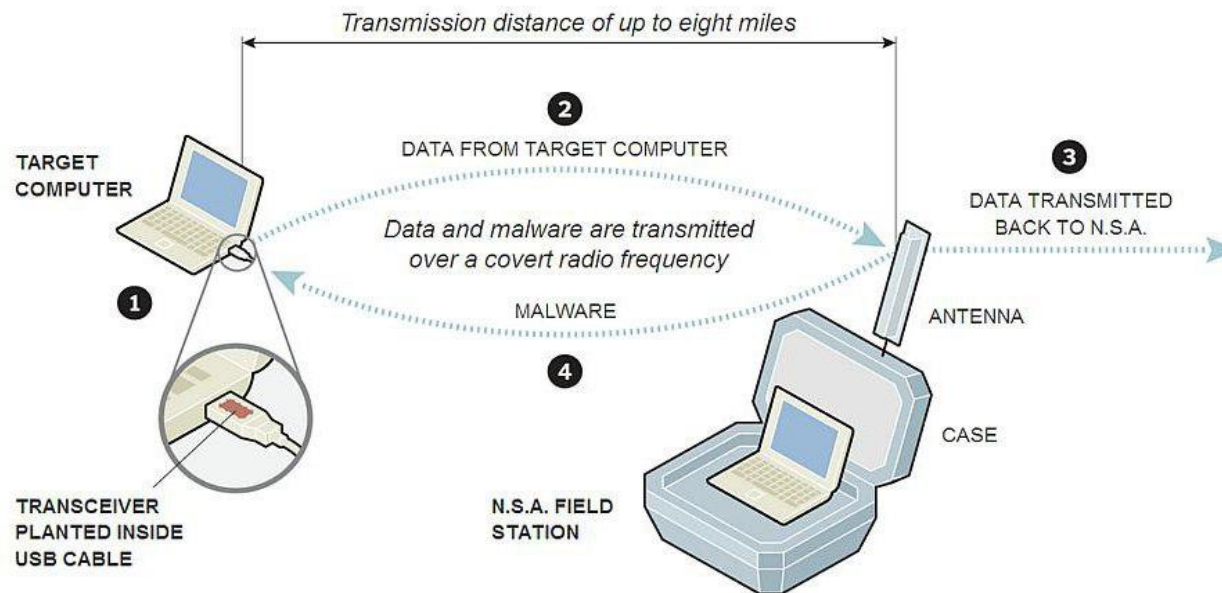


Related Press Release (1)

"N.S.A. Devises Radio Pathway Into Computers" (The New York Times Jan. 14, 2014)

How the N.S.A. Uses Radio Frequencies to Penetrate Computers

The N.S.A. and the Pentagon's Cyber Command have implanted nearly 100,000 "computer network exploits" around the world, but the hardest problem is getting inside machines isolated from outside communications.



1. Tiny transceivers are built into USB plugs and inserted into target computers. Small circuit boards may be placed in the computers themselves.

2. The transceivers communicate with a briefcase-size N.S.A. field station, or hidden relay station, up to eight miles away.

3. The field station communicates back to the N.S.A.'s Remote Operations Center.

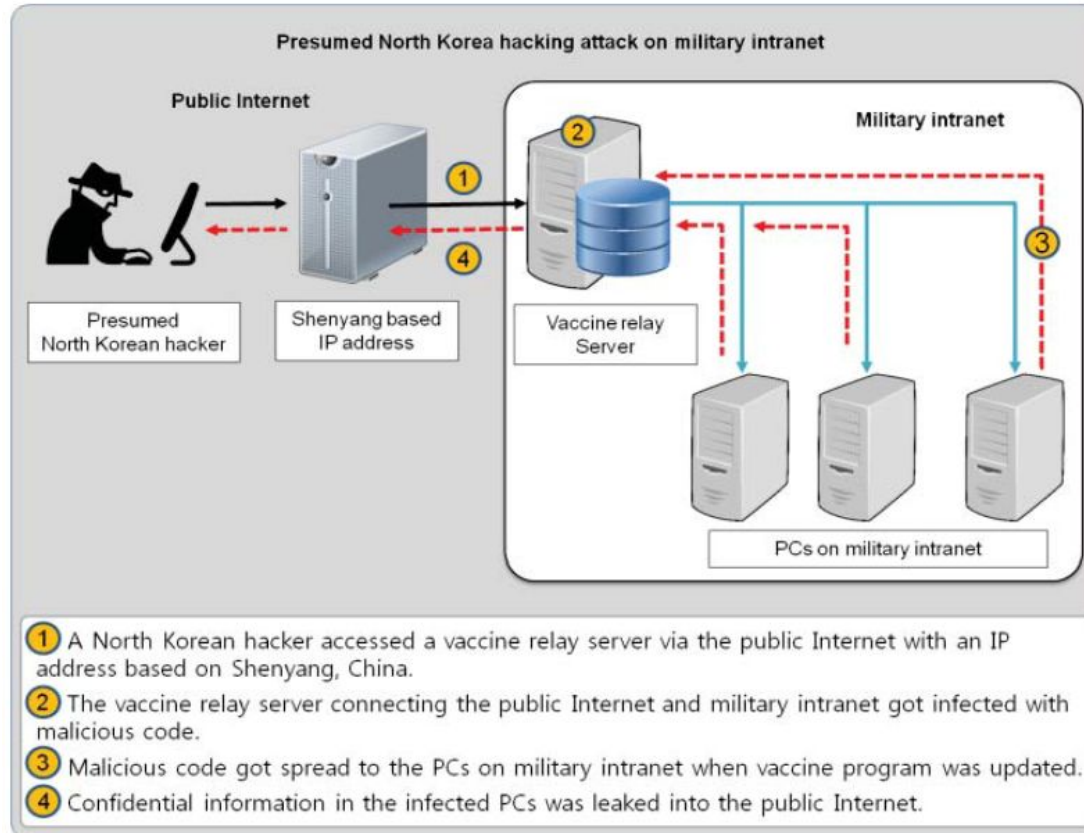
4. It can also transmit malware, including the kind used in attacks against Iran's nuclear facilities.

The National Security Agency has implanted software in nearly 100,000 computers around the world that allows the United States to conduct surveillance on those machines and can also create a digital highway for launching cyberattacks.

The technology, which the agency has used since at least 2008, relies on a covert channel of radio waves that can be transmitted from tiny circuit boards and USB cards inserted surreptitiously into the computers. In some cases, they are sent to a briefcase-size relay station that intelligence agencies can set up miles away from the target.

Related Press Release (2)

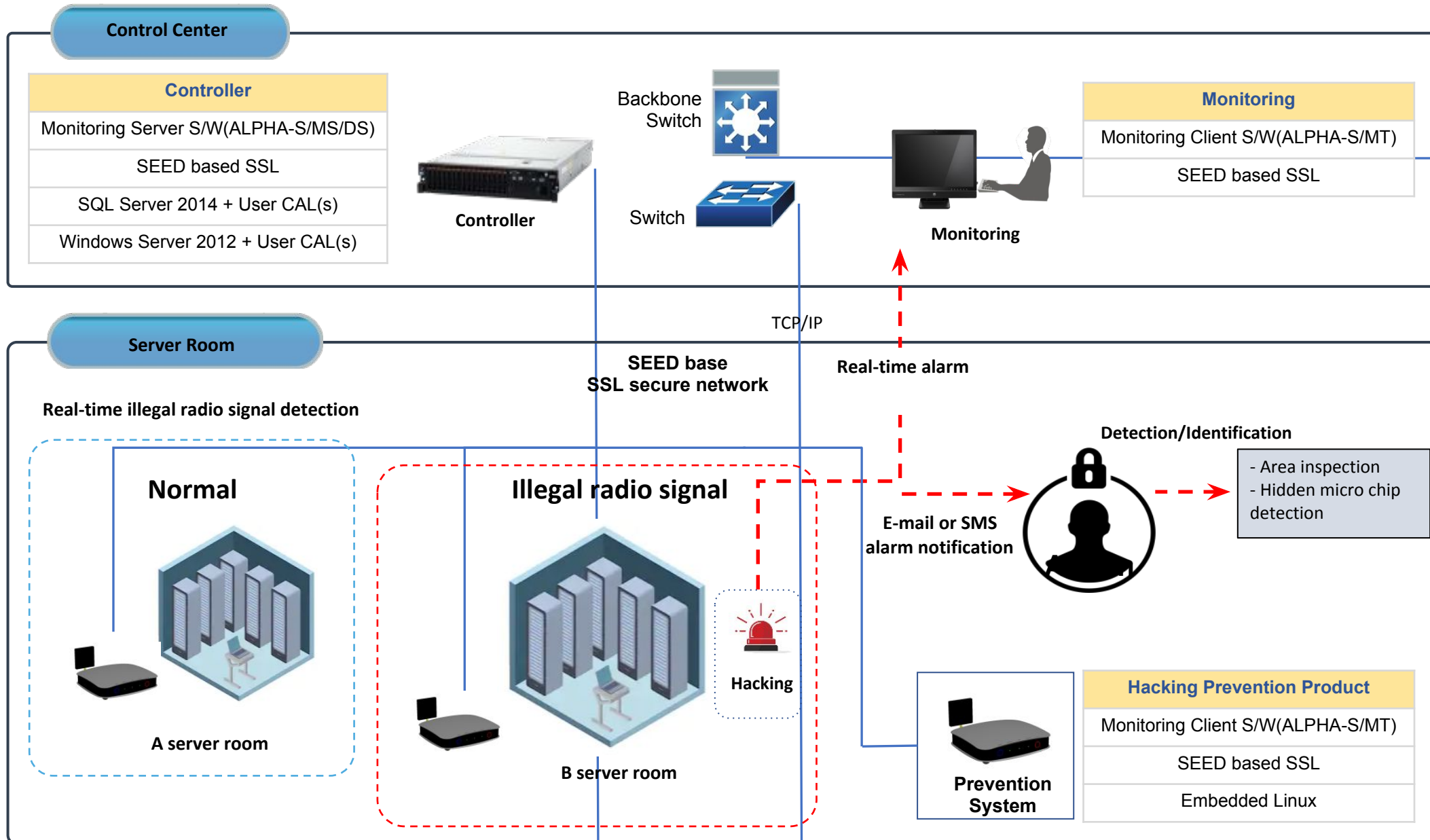
"Poor security led to military hacking by North" (Korea Joongang Daily Dec 19, 2016)



Earlier this month, the South Korean military accused Pyongyang of hacking South Korea's defense intranet, and cyber experts are now pointing out holes in the security system.

A high-level government official said on Dec. 12 that a total of 3,200 computers were contaminated with malware, including 700 computers in the Ministry of National Defense's intranet and 2,500 military computers connected to the internet. This hacking of the South's Cyber Command occurred back in August.

System Diagram

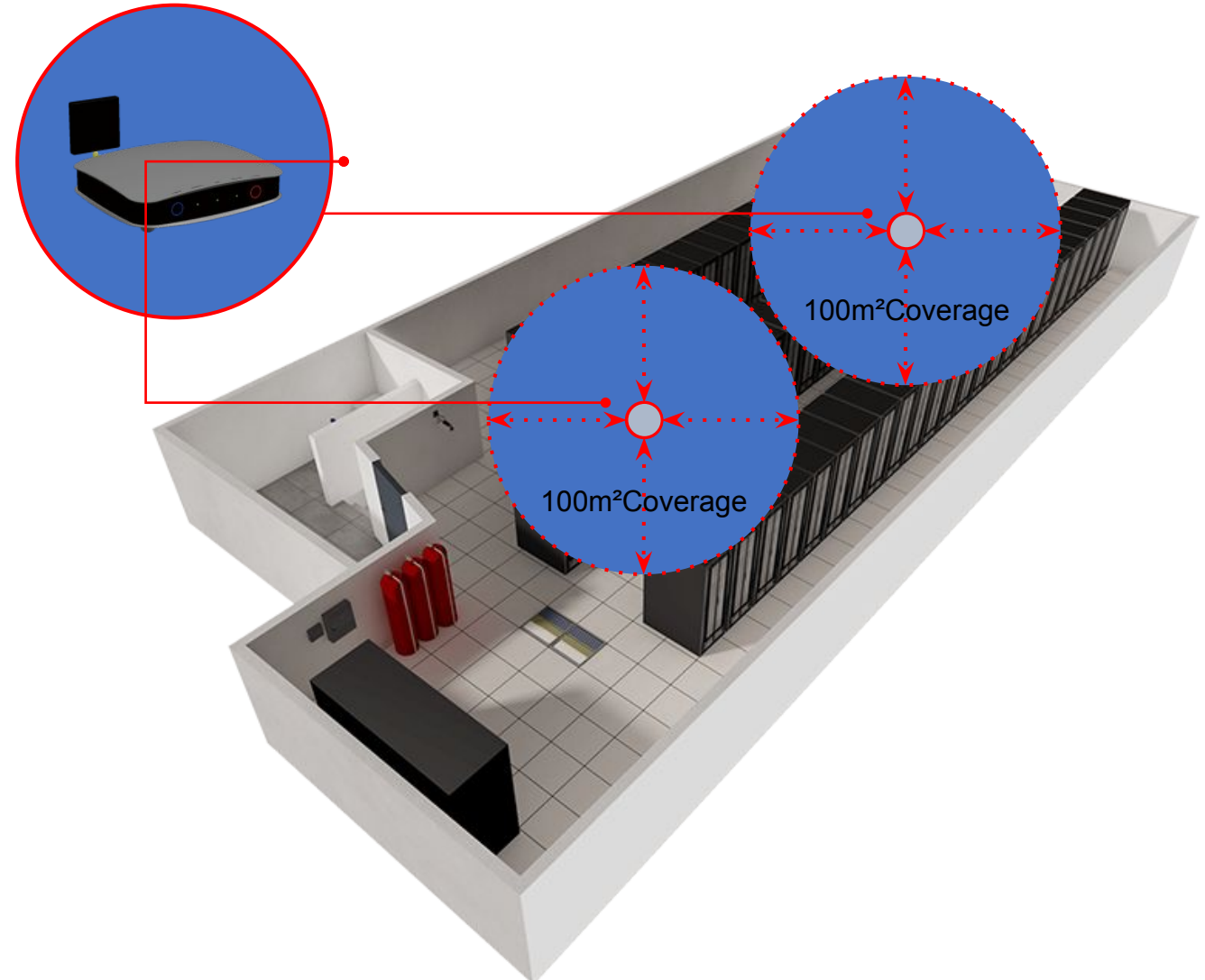


Installation example

□ Installation of the Remote Terminals

Quantity : 1 Remote Terminal per 100m²

Place : Considering RF Interference (on the server rack, beside of cable-tray, ceiling, etc.)



- The Smart-D solution consists of remote terminal unit, central controller, terminal management software that support integrated control over multiple locations.

