

Editorial

New Technologies Bring in New Threats: Cybercrime Boons

Criminals in the last year 2021 constructed 68 million US \$ with SIM card cheating which in technical circles called SIM fraud. What is being this? With SIM fraud the hacker uses the mobile telephone number of a user and takes possession of the online identity of the victim. In course of this most people are seldom conscious of the fraud variants. The attackers always find new ways in order to come to the necessary date for this act. When they get the names and numbers of the connected partners, they manage to make them send new SIM Card at false address. It goes well with them in the theft of so-called credentials of entry date for the theft.

Then numerous banks and online shops use the SMS based verification of the customers. Beyond that most of the companies use for the coworkers and customers one two factor authentication (2FA) while the authentication is only with a password valid as unsafe. However still always the SMS constructs for that an important variant, although these are after a long time graded as unsafe. The attacker makes the best of it. If they have the SIM cards they can set aside easily the passwords go with many big online businesses in purchase or to attack bank accounts. That is SIM fraud an example for always new breakthrough in cyberspace.

(Federal office for safety in Information Technique) Bundesamts für Sicherheit in der

Information technik (BSI) organized a congress for the second time exclusively online with more than 8000 participants. The congress views how new technologies bring along with these new attacking risks as for example 5G. A study of BSI proves that in the 5G nets set up O-RAN – technology design has weakened which can be used for the attack. Open Radio Access Network (O-RAN) is thought as virtualization for the mobile phone networks in order to preserve the previous dependence of mobile phone net management of individual manufacturers and their production. Congress contributions are engaged with those how 5G networks can be efficiently secured.

Quantum computers crack coding: Also others with new technologies going along with safety problems constituted complex themes in case quantum computing many of the previous coding methods can be by the quantum computer in wind-speed mopped up, therefore new coding algorithms are necessary.

Source: VDI nachrichten, Technik & Wirtschaft, 25 Februar 2022, Nr. 1, Seite 18, von UWE Sievers.

Anil Kumar Ghosh