

Cybersecurity companies converge in Wuhan

Sanjiang Quantum: quantum communication ensures "unconditional security"

Internet information can be stolen in the process of optical fiber transmission even if it is encrypted. However, an unconditional security network formed by quantum communication technology can prevent such leaks. Wuhan Space Sanjiang Quantum Communication Co., Ltd. (Sanjiang Quantum Communication) is striving to apply the technology in the fields of finance and government-information security.

Compared with traditional communication, a quantum cryptographic key appears randomly, and even if it is intercepted by hackers, the present computing power will not help them obtain the correct key. At the same time, hackers' macro observation and interference on the communication process will immediately change the quantum state and destroy the transmitted information. Thus the quantum communication has absolute security.

As the most sophisticated technology in the field of information security in China, quantum communication is highly compatible with cybersecurity. At the end of March 2017, Wuhan Space Sanjiang Quantum Communication Co., Ltd. was established. The company signed an agreement to move into the NCTIB on June 1 this year.

The company will construct a quantum encrypted metropolitan area network (MAN) in Wuhan. The quantum communication network with 60 nodes, which will be completed within the year, covers the whole municipal government system. Upon completion, it will be the world's largest quantum-encrypted commercial network, and also the first advanced "wavelength-division-multiplexing (WDM)" network in the world. It is of great significance to the exploration and application of quantum technology.

In the future, Sanjiang Quantum Communication will continue to promote the construction of a strategic quantum operating network within the sphere of the middle and lower reaches of the Yangtze River, apply to establish a national quantum communication network security defense laboratory, build a national scientific research platform to support the local quantum scientific research, set up a quantum teaching and training platform to facilitate cooperation between the industrial and educational sectors, and establish quantum communication incubators to boost the local innovation and industrialization of quantum communication technology.

Integrity Tech: artificial intelligence helps counter cyber attacks

How do people keep electronic information confidential? How do people protect a flash disk from catching a "Trojan horse?" How do people prevent their mobile phones from being attacked by internet viruses when scanning QR codes? All of these daily network security problems can be solved with short-term professional training. Beijing Integrity Technologies Co., Ltd., located at the National Cybersecurity Talent and Innovation Base (NCTIB), has provided such training services to nearly 500 people.

Beijing Integrity Technologies Co., Ltd. was established in September 2010. At present, the company is mainly engaged in cybersecurity technology research, product development, and security services. It has developed cybersecurity products, security service tools and other products with independent intellectual property rights.

In 2016, at a national cybersecurity skill contest sponsored by Integrity Tech, ten top teams from around the country competed in virtual spaces in Wuhan. The event laid a foundation for further cooperation between the company and the Wuhan Airport Economic Development Zone (AEDZ).

According to the strategic cooperation framework agreement signed by the two sides on December 25, 2016, Integrity Tech delivered short-term training to 450 staff members from the public service and some well-known companies on December 27 and 28. It also provided a one-week national cybersecurity system-related training to front-end web developers from universities.

It is said that in the future, the company will carry out relevant training courses for cybersecurity professionals, relevant school students and cybersecurity enthusiasts. Each year it plans to train 3,000 person-periods offline and 300,000 person-periods online.

According to Cai Songyan, the general manager of Beijing Integrity Technologies Co., LTD. (Wuhan), the company will organize a contest related to cybersecurity and robotics this year. Twenty contesting teams will locate and fix security vulnerabilities intentionally placed in automated platforms and compete to improve the ability of defending cyber-attacks through artificial intelligence.



Impression of a bird's-eye view of the Exhibition Center

Cybersecurity Institute: data security safeguards intellectual economy

Speaking of the Cybersecurity Institute of DBAPPSecurity to be established in the NCTIB of AEDZ, Frank Fan, President/CEO of the DBAPPSecurity Ltd., and also president of the attached Cybersecurity Institute, emphatically expressed his expectations on August 17.

The last time Fan was in the limelight was on May 20 this year when the China Internet Security Innovation and Sharing Conference 2017 (the West Lake Internet Symposium) hosted by DBAPPSecurity was opened in Wuzhen in Zhejiang province. At that time, the global network was under the threat of the ransomware, "WannaCry." At this critical moment, DBAPPSecurity immediately launched an emergency plan in cooperation with other companies under the command of the Cyberspace Administration of China, the Ministry of Public Security and other relative state departments. The virus was finally controlled effectively. DBAPPSecurity was especially praised for its contribution by the

Cyberspace Administration of China.

In 2007, Fan returned from Silicon Valley in the U.S. and started DBAPPSecurity in Hangzhou. After a decade in operation, the company has become China's leading provider of information security products and service solutions. As a pre-eminent company focusing on the cutting-edge fields such as cloud computing, web application, big data, and Smart City security technologies, DBAPPSecurity has been selected several times as one of the world's top 500 cybersecurity companies. It has provided all-round network information security service for significant events such as the Beijing Olympic Games and the 60th Anniversary Ceremony for the Founding of the People's Republic of China. In addition, it was also the major Internet security provider of the Hangzhou G20 Summit, and three consecutive World Internet Conferences in Wuzhen.

DBAPPSecurity's main business covers cloud computing, big data, web application, database, mobile Internet, Smart City, and

other security technologies. Their specific services include security situation perception, threat intelligence analysis, network attack and defense combat training, top design, standard setting, project and security technology research, product development, and provision of comprehensive solutions for products and services.

Fan revealed that the Cybersecurity Institute of DBAPPSecurity will consist of seven sections: the cybersecurity training center, the cybersecurity exam & certification center, the network attack and defense combat training platform, the cybersecurity comprehensive training base, the national security situation perception cloud service center, the research base of industrial control system security, and the comprehensive experimental base of innovative R&D and production-study-research cooperation. Upon completion, the institute is expected to cultivate 3,000 to 10,000 cybersecurity engineers every year, with an estimated annual tax revenue of nearly RMB 10 million for the country.