

NEW US PATENT FOR SHARING RESOURCES BETWEEN WIRELESS NETWORKS ENHANCING DRONE DEFENSE CAPABILITIES THROUGH EFFICIENT USE OF THE RADIO SPECTRUM

Highlights:

- New patent granted for sharing of wireless resources between networks used in counter-drone systems or any high bandwidth datalink: US Patent No. 9473226.
- US Grant of novel technology enabling more efficient use of the radio spectrum allowing different networks to concurrently use the same frequencies.
- D13 now has 12 granted patents and 22 patent applications in its IP portfolio.

Perth, WA and Columbia, Maryland USA: Department 13, (ASX: D13) is pleased to announce that under our license agreement with GenghisComm Holdings, D13 has been granted a US patent on technology that further enhances D13's drone defense capabilities and advanced communication networking. By leveraging this novel technology, D13 enhances our drone defense solution allowing more sensors and devices to operate efficiently within the limited radio spectrum. More broadly, this technology can permit licensed cellular spectrum to be used for other communications without interfering with cellular networks.

D13 CEO Jonathan Hunter said, "This novel technology allows D13 to continue to enhance its drone defense solution through increased sensor data exchange within an increasingly crowded radio environment, resulting in increased situational awareness. We are committed to continue strengthening the company's long term competitive position by further adding to our proprietary intellectual property portfolio."

Being able to share resources between wireless networks has incredible advantages for devices communicating in the shared, unlicensed frequency space. Through the use of this technology, devices currently using the 2.4 GHz Industrial, Scientific, and Medical (ISM) radio band can be enabled to make use of the cellular network without interfering with any other device in the network. Doing so, allows the device to use a lower frequency cellular channel instead of the ISM radio band, increasing the range by about ten-fold or greatly reducing the required radio transmission power.

The new US Patent 9473226 has been licensed to D13 by GenghisComm Holdings, the IP holding company of D13's Chief Science Officer (CSO), Steve Shattil, under the terms of the existing exclusive License with D13 which cover the fields of drone defense and US and Australian government agencies and departments' business.

Mr. Shattil is the inventor of dozens of US and foreign patents essential to wireless and radio protocols standards, including 3GPP (3G cellular), LTE (4G cellular), 802.11n (Wi-Fi), 802.16 (WiMax) and 802.20 (Mobile Broadband).



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About Department 13

Department 13 (D13) was founded in Virginia in 2010 by a team of former military operators, scientists and engineers who apply proprietary innovative advanced technology to emerging requirements.

D13 is developing cutting edge software and communication systems that have the potential to transform the networking and communication fields as well as current applications in drone defense, mobile phone IT security and secure enhanced android phone systems.

D13 is engaged with multiple counter UAS projects to provide strategic solutions for civil, military and commercial security requirements.

D13 has 12 patents and 22 patent applications in the development of wireless protocol manipulation and communication networking software with applications in:

- Drone defense;
- Local area and wide area cellular communications and networking;
- Enhanced data bandwidth for all digital communications;
- Cyber security for mobile devices;
- Sophisticated RF technology applications (Radiometrics).

For more information about D13, follow us on Twitter (@D13ASX), LinkedIn and YouTube.