

**NEW US PATENT FOR COORDINATED ROUTING  
DIRECT APPLICATION TO DRONE DEFENSE CAPABILITIES,  
EFFICIENT CLOUD STORAGE AND STREAMING MEDIA OVER NETWORKS**

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**Highlights:**

- New patent granted for advanced networking used in counter-drone systems: Coordinated Routing Patent. No. 9325805.
- US Grant of ground-breaking technology enabling efficient routing and cloud storage in distributed networks.
- Technology also enables significant increase in data bandwidth for streaming media services over the Internet and wireless networks.
- D13 now has 11 granted patents and 14 patent applications in its IP portfolio.

**Perth, WA and Columbia, Maryland USA: Department 13 (D13) (ASX:D13)** is pleased to announce that under our license agreement with GenghisComm Holdings, D13 has been granted a US patent on technology that will further enhance D13's drone defense capabilities and advanced communication networking. In particular, this technology addresses a key component in D13's counter-drone defense solution for managing large sensor arrays used to detect and track drones, as well as our strategic networking solutions products.

Determining the most efficient way to store and deliver data is normally a huge computational task. Instead, sub-optimal solutions which require fewer computations are used. This patent reapplies an algorithm that was originally developed to decode noisy radio signals to quickly find the optimal solution to the storage and delivery problem in distributed networks. This will reduce OPEX and CAPEX for network operators while enabling existing networks to serve more customers, and consumers will enjoy higher data rates. It can be used in all types of wireless and wired communications, and it is particularly useful for streaming video and other multimedia services. There are also significant broader applications in Wi-Fi and cellular communications networks that enable increased bandwidth, better coverage, and improved reliability, especially where signals are weak, or when there is a lot of congestion.

The new US Patent 9325805 has been licenced 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 Licence 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).

The invention, Coordinated Routing, will provide an unprecedented increase in data bandwidth via radio networks, as well as having direct application to drone defense technology, by dramatically improving ad-hoc networks used to detect and communicate with airborne targets. It is related to earlier inventions by Mr Shattil in the field of Cooperative MIMO technology that is also exclusively licensed to D13.

D13 CEO Jonathan Hunter said, "This innovation will enable intelligent data processing to support more sensors in a distributed counter-drone network, which will improve situational awareness, quickly identify threats, and provide for more effective countermeasures. It is also a part of a longer-term strategy within our strategic networking solutions product offering."

Regarding the broader benefits of Coordinated Routing, the ability to increase data services and serve more customers within existing networks is becoming increasingly important, particularly in wireless networks in which there is a finite amount of radio spectrum in which to communicate. We anticipate there will be significant interest in the technology from telecommunications companies.

For more information, contact

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#### **ABOUT Department 13 International Ltd**

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 has 11 patents and 14 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 applications in the RF environment (Radiometrics).