

Patent that Improves Power Efficiency of 5G Systems

Highlights:

- Patent issued reduces power consumption
- Technology expected to be essential for 5G cellular and Internet of Things (IoT)
- Creates potential additional revenue streams via licensing opportunities
- Creates a further significant competitive advantage by enabling MESMER™ to adapt to new drone threats

COLUMBIA, MD and PERTH, WA – 25 October 2017 – Department 13 (ASX: D13 or “the Company”) has been issued U.S. Patent No. 9,800,448 titled “Spreading and Pre-Coding in OFDM.”

The patent, licensed exclusively to D13 and assigned to Genghiscomm Holdings, the IP holding company of D13’s Chief Science Officer Steve Shattil, covers signal coding that dramatically reduces power consumption and cost in radio transmitters. This technology significantly increases the battery life of phones, computers, drones and cameras, providing significant IP licensing opportunities for D13.

This technology will increase D13’s current competitive advantage and protect future versions of MESMER™ (the Company’s counter drone defence system) by improving the range and efficiency which will use networks of distributed sensors. This will enable D13 to adapt to additional drone threats in the future. Furthermore, this technology will enable the new generation of cellular networks, “5G”, to replace cell towers with small antennas that are widely distributed throughout the cell.

Jonathan Hunter, Chief Executive Officer of D13, said, “This technology provides the power efficiency necessary for battery-powered devices, such as smartphones, laptop computers and drones, to operate as a distributed sensor network in a counter-drone system. It brings computer processing to the edge of the network to enable faster response and higher data bandwidth. If we apply our technologies to a 5G cellular network, then smartphones can function as cell tower antennas. This means that the bandwidth improves as more people join the network, which is the opposite of what happens in today’s cellular networks. With the anticipated expansion of wireless communications and the overall drone market, this patent provides us with a unique competitive advantage as well as potential additional revenue streams through IP licensing.”

Including this patent, D13 now holds 19 U.S. issued patents, with 29 pending.

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For more information, contact

Jonathan Hunter
Chairman and CEO
Department 13
+1 703 597 6574
Jonathan@department13.com

Investor relations
Mark Wise
Department 13
+1 914 261 5574
mwise@department13.com

US Media:
Laura Radocaj
DGI
+1 212 825 3210
lradocaj@dgicomm.com

About Department 13

Based in Maryland, Department 13 (D13) was founded 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 19 patents and 29 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 and sophisticated RF technology applications (radiometrics). For more information about D13, please visit www.department13.com or follow us on Twitter (@D13ASX), LinkedIn and YouTube.