

Lockheed Martin Develops World-First LTE-Over-Satellite System

New mobility tech connects first responders and disaster victims during emergencies

VALLEY FORGE, Pa., March 13, 2019 /[PRNewswire](#)/ -- Lockheed Martin (NYSE: LMT) has developed a new LTE-over-Satellite system designed to provide connectivity to remote regions, including areas without cellphone coverage, boats off-shore, or during natural disasters like hurricanes, wildfires, earthquakes, catastrophic floods or volcanoes. New hotspots connect existing phones to satellites for reliable 4G connections.

"When disaster strikes, cell phone networks often go down – whether because of the event or because of the sheer volume of traffic," said Maria Demaree, vice president and general manager of Mission Solutions at Lockheed Martin Space. "So, it's important to have new ways to connect families and first responders with people who would be otherwise cut off from contact."

Typically, during an emergency that knocks out cellular networks, specialized satellite phones are the only option for mobile connectivity. While satellite phones will still play a key role in disaster recovery, Lockheed Martin's LTE-over-Satellite solution lets people complement satellite phones with their existing commercial phones to connect to a pop-up cellular network that is connected directly to a satellite. The system takes advantage of the fact that 4G devices are now widespread across the world. According to a 2018 Global mobile Suppliers Association (GSA) report, LTE now accounts for more than a third of all mobile subscriptions globally (35.7%). LTE offers broadband data rates in addition to voice and SMS, so important photos, files and commerce can still take place even if traditional communications infrastructure is disrupted.

The new mobility system isn't limited to use during natural disaster or terrorist attacks, it can be potentially used by offshore fisherman located far from cell towers, remote mineral production outposts, scientific and research stations, and in agriculture operations.

Hotspots can be mounted to vehicles, trucks, or ships to provide additional connectivity. For example, with a vehicular-mounted device, LTE-over-satellite connectivity follows a first responder straight to the scene without a separate device. It

can be used on cargo trucks to transmit locational data, shipment information and allow vital voice communication to connect with a central dispatcher.

About Lockheed Martin

Headquartered in Bethesda, Maryland, Lockheed Martin is a global security and aerospace company that employs approximately 105,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

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