## New Tactical ISR Satellites Provide Global, Persistent Support For Warfighters

Units operating in denied areas employ survivable ISR to shorten the sensor-to-shooter timeline



LITTLETON, Colo., Apr. 13, 2021 – Lockheed Martin (NYSE: LMT) is addressing the accelerating demand for space-enabled warfighting capabilities with a new line of rapid, integrated and affordable tactical Intelligence, Surveillance and Reconnaissance (ISR) satellites. These satellites, based on Lockheed Martin's LM 400 mid-size bus, enable tactical warfighters to track

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moving targets at long ranges and operate in contested and denied environments -- on compressed timelines at the scale of battle.

Based on flight-proven and mature components, an open architecture, and a highly produceable design, the affordable LM 400 satellite bus forms the backbone of this needed capability across a variety of emerging mission areas. These satellites fully integrate space ISR with the warfighting platforms and weapons of other domains to shorten the find-fix-finish kill chain.

The LM 400-based tactical ISR satellites offer the following benefits:

- Interoperable: By following open standards like Open Mission System (OMS) and Universal Command and
  Control Interface (UCI), these tactical ISR satellites readily connect with other warfighting platforms and
  battle management systems from all services.
- Adaptable: The software-defined satellite capabilities of Lockheed Martin's <u>SmartSat™</u> platform offer the
  ability to responsively develop and deploy new mission capabilities on orbit ahead of the pace of evolving
  threats.
- **Powerful:** The high-powered LM 400 can also support payloads up to 14 kilowatts and up to 3,300 pounds (1,500 kilograms) of mass, enabling extended operation of a wide-range of sensor technologies.
- Autonomous, Survivable, Combat-Ready: Powered by on-board processing and resilient connectivity, this tactical ISR satellite line enables in-theater, low-latency sensor tasking, on-orbit processing of mission data, protected communications and direct downlink of situational awareness and targeting information, increasingly essential to shortening the sensor-to-shooter timeline against fleeting targets.

Digital engineering and manufacturing are accelerating our ability to deploy robust, future-focused constellations that feature leading-edge technology for our customers' missions," said Rick Ambrose, executive vice president of Lockheed Martin Space. "Our LM 400 is a highly adaptable, mid-sized satellite and yet can be produced at scale in a rapid and cost-effective manner."

For persistent ISR capabilities, "at scale" means larger constellations and rapid satellite production and deployment. Lockheed Martin's new high-capacity <u>Gateway Center</u> satellite manufacturing facility supports accelerated space vehicle production, assembly and testing in a single, flexibly configured space, accommodating multiple security classification levels.

The LM 400-based tactical ISR satellites will play a key role in <u>Joint All-Domain Command and Control (JADC2)</u> by allowing tactical warfighters to better employ space-based capabilities. Lockheed Martin is also developing and building 10 space vehicles based on <u>Tyvak's Mavericks</u> bus over the next two years for the <u>Space Development Agency's (SDA) Transport Layer Tranche 0</u>, cited as the backbone of JADC2, enabling even more connectivity between ISR and warfighters.

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