NEWS RELEASE
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AvL Technologies' Intelligent Terminal Controller Verifies Every Software Layer Before It Runs

ASHEVILLE, N.C., Monday, November 2, 2026 – AvL Technologies today detailed the hardware-rooted security architecture of its Intelligent Terminal Controller (ITC), the next-generation controller for SATCOM terminals operating across vLEO to GEO orbits. Built on a hardware root of trust, the ITC verifies the firmware, bootloader, operating system and applications before any of them run, so protection begins at boot rather than after the system is already running.

Operating-system hardening, such as STIG-based configuration, remains essential, but it protects a system only once software is running. The ITC pairs a secured operating system and role-based access control with a hardware root of trust that establishes a cryptographically enforced chain of trust at boot. System software is encrypted at the AvL factory and authenticated at each boot to prevent installation or execution of altered firmware or software. Additionally, built-in sanitization lets operators securely erase sensitive mission data and keys.

"Our customers need to trust that a terminal's software is authentic before it is allowed to run," said Chris Rose, Chief Technology Officer of AvL Technologies. "That's why we built the ITC's security from the hardware up rather than layering it on afterward. We design and sustain the controller right here in Asheville, so we know exactly what's inside and can stand behind it with secure updates and ongoing cyber support."

Support is part of the design. A secure update engine delivers cryptographically signed updates, backup and reset-to-known-good-state capabilities allow recovery, and AvL offers a cyber maintenance support contract to ensure that customer can maintain the highest level of protections against ever-evolving threats.

Supply-chain integrity follows the same approach. The ITC contains no electronics of PRC country of origin, and because AvL designs, manufactures, and sustains the controller at its Asheville headquarters, customers receive validated hardware sourcing and hardware lineage verification.

Separately, AvL recently achieved Final CMMC Level 2 certification, which independently verified how the company protects Controlled Unclassified Information.

To learn more about the ITC's security architecture, visit www.avltech.com/news-events

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About AvL Technologies

AvL Technologies, Inc. is a global satellite communications solutions provider specializing in the design, development and production of advanced mobile antenna systems and positioners. AvL combines innovative engineering, proven technology and responsive lifecycle support to deliver complete, mission-ready solutions for defense, government and commercial customers worldwide. Its industry-leading product portfolio includes a full range of rugged, rapidly deployable antenna systems with multi-band and multi-orbit capabilities. Designed for ease of

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operation, AvL systems enable reliable, cost-effective voice, video and data connectivity to be established quickly in the world's most demanding environments. Headquartered in Asheville, North Carolina, AvL is committed to technical excellence and direct, personalized customer support throughout the solution lifecycle.