



For Immediate Release

Siemon Provides New Guidance for Single-Pair Ethernet Retrofit, Future-Proof and Day-One Installations

December 7, 2020. Watertown, CT — Siemon, a leading global network infrastructure specialist, recently released design and installation guidance for support of Single-pair Ethernet (SPE) using the Siemon TERA® cabling system in retrofit, future-proof and day-one operational technology (OT) and information technology (IT) deployments.

As explained in the Siemon Tech Brief, Siemon's fully-shielded TERA solution supports 10BASE-T1L SPE applications over distances of up to 400 m (1,300 ft) for monitoring and controlling simple, low-speed devices used in commercial OT enterprise environments. The TERA solution's superior noise immunity and headroom also robustly supports 2- and 4-pair 10/100/1000BASE-T and 10GBASE-T Ethernet IT applications over distances of up to 100 m (328 ft) in environments up to 70°C (150°F).

The new brief outlines how TERA's unique cable-sharing ability enables installed TERA 4-pair permanent links to easily be retrofitted to support SPE applications, while new TERA components can be deployed to support both future IT and OT device connections, as well as new permanent links dedicated to SPE networks and devices.

"Siemon is pleased to provide guidance on how our industry-leading TERA cabling solution offers the flexibility and performance to support a range of topologies that help pave the way for IT-OT convergence," says Valerie Maguire, Siemon's Distinguished Engineer and Chief Editor for the IEEE Std 802.3cg™-2019 Single-Pair Ethernet amendment. "TERA equipment outlets used in conjunction with service concentration point outlets housed in Siemon zone enclosures offers the added benefit of simplified labelling and administration and shorter, easy-to-manage links to devices or outlets serving multiple devices."

Siemon's TERA 10BASE-T1L SPE cabling solution is compatible with traditional 1-pair screw terminal interface connections, as well as 1-pair pluggable equipment connections to accommodate 10BASE-T1L equipment and devices that have not yet gained broad market presence. The new tech brief also includes a graphical example that clearly demonstrates how to deploy TERA components in a retrofit, future-proof and day-one security application using both 10BASE-T1L SPE for low-speed access control devices and 10GBASE-T ready 4-pair Ethernet for higher-speed surveillance cameras.

To learn more about how Siemon's TERA system ideally supports retrofit, future-proof and day-one SPE installations, access Siemon's Tech Brief by visiting:

<https://go.siemon.com/tb-spe>

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About Siemon

Established in 1903, Siemon is an industry leader specializing in the design and manufacture of high quality, high performance IT infrastructure solutions and services for Data Centers, LANs and Intelligent Buildings. Headquartered in Connecticut, USA, with global sales, technical and logistics expertise spanning 100 countries, Siemon offers the most comprehensive suites of copper and optical fiber cabling systems, cabinets, racks, cable management, data center power and cooling systems and Intelligent Infrastructure Management solutions. With more than 400 patents specific to structured cabling, Siemon Labs invests heavily in R&D and the development of Industry Standards, underlining the company's long-standing commitment to its customers and the industry. Through an ongoing commitment to waste and energy reduction, Siemon's environmental sustainability benchmarks are unparalleled in the industry, including 179% global carbon negativity and zero-landfill status.

Siemon Interconnect Solutions (SIS) is a Siemon business unit comprised of a team of dedicated technical sales professionals supported by Siemon Labs, mechanical, electrical and signal integrity engineers committed to solving industry and customer driven interconnect challenges. We provide custom network infrastructure solutions to OEMs, Leading Manufacturers, Value-Added Resellers and System Integrators.

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