ALGO | NVT PHYBRIDGE

Modernize Networks. Extend Everyday and Emergency Communications.

For many organizations, the biggest barrier to IP modernization is the infrastructure. Traditional Ethernet limits IP deployments to 300 feet. Extending beyond that distance typically requires new cable runs, additional network closets, added power and cooling, and disruptive construction. In fact, infrastructure can consume 50–80% of a modernization budget, often discovered late in planning. In older buildings, upgrades may involve opening walls, navigating asbestos or fire stops, or relocating staff during installation.As a result, projects are delayed, scaled back due to cost, or deployed with communication coverage gaps, introducing operational and safety risks.

Algo + NVT Phybridge Solution

Algo delivers IP endpoints for voice paging, emergency alerting, visual notification, and secure door entry, designed to improve communication clarity, safety, and responsiveness. NVT Phybridge delivers long-reach IP and PoE networking over existing UTP and coax cabling, extending connectivity well beyond traditional Ethernet distance limits.

Together, they remove the infrastructure barrier to IP modernization. By leveraging existing UTP and coax cabling, organizations can extend IP connectivity and power far beyond 300 feet, enabling endpoints to be deployed where coverage is required.

Instead of funding large re-cabling projects or accepting coverage limitations, teams can modernize priority areas first, expand in phases, and upgrade facilities faster and with lower upfront cost, all while using their existing infrastructure.

Get in touch with our team:
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Modernization Outcomes

- **Extend IP Beyond Traditional Limits**

  Deliver IP connectivity and power well beyond the 300-foot Ethernet constraint using existing UTP and coax cabling infrastructure.

- **Eliminate Rip-and-Replace Requirements**

  Modernize without removing functional cabling or rebuilding network infrastructure. Leverage what is already in place to support today's IP communication needs.

- **Accelerate Deployment Without Disruption**

  Deploy faster without waiting on construction schedules, permits, or phased renovations. Avoid opening walls, navigating asbestos or fire stops, relocating staff, or interrupting daily operations during installation.

- **Scale Without Infrastructure Barriers**

  Upgrade priority areas first and expand over time without committing to a full infrastructure overhaul upfront.

- **Reduce Infrastructure Costs**

  Avoid the significant expense of new cable runs, additional network closets, power upgrades, and construction, preserving capital for endpoints and applications that deliver measurable operational value.

Why It Matters

When infrastructure consumes the majority of a project budget, organizations are forced to compromise by scaling back coverage, delaying upgrades, or deferring critical communication improvements.

Reusing existing infrastructure preserves capital and redirects investment toward endpoints and applications that directly improve safety, operational efficiency, and communication performance.

The result is faster deployment, improved time to value, and modernization aligned with both budget and risk priorities.

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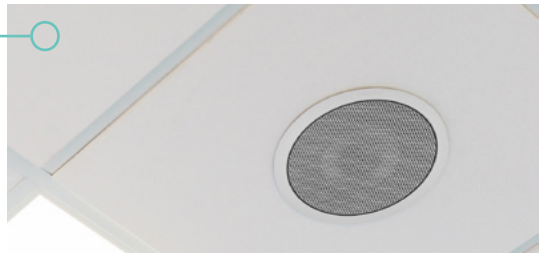
Applications

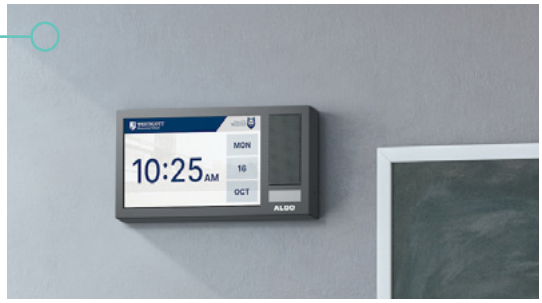
VOICE PAGING

Extend intelligible paging across campuses and distributed facilities, including multi-building school districts and healthcare campuses, without new wiring projects.



EMERGENCY ALERTING

Deploy visual and audible alerting in remote or infrastructure-constrained environments such as older hospitals, government facilities, and industrial sites using existing cabling.



SECURE DOOR AND GATE ENTRY

Integrate IP intercoms at detached buildings, gates, and remote facilities into centralized communication systems without rebuilding network infrastructure.

Modernization Without Infrastructure Barriers

By removing infrastructure limitations, Algo + NVT Phybridge enable organizations to extend daily and critical communications with greater reach, lower infrastructure cost, and fewer deployment barriers, making modernization practical, scalable, and aligned with real-world constraints. From everyday paging to emergency alerting and secure entry, organizations can modernize communication systems faster and more efficiently using the infrastructure already in place.

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