Physical Infrastructure Assessment Services for Industrial Automation

**Make Informed Decisions about Infrastructure Readiness to Support Future Technology and Current Operations**

**Operational Excellence Starts with an Optimized Physical Infrastructure**

As networks converge, the physical infrastructure, often overlooked and underappreciated, has become even more critical. Panduit views the manufacturing, facilities, and the enterprise from the inside out. Starting with an understanding of your logical network and operational drivers, we work with you to determine how to best optimize your physical infrastructure.

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Today's industrial organizations are driven to increase production and reduce costs while maintaining quality and safety. These organizations need partners that understand their unique application requirements to meet business challenges and prepare for tomorrow.

Our assessments evaluate key components of your physical infrastructure, such as policy, design, on-site operation, risk, and vulnerability assessments. Each assessment provides a detailed examination of an aspect of your physical infrastructure, including an evaluation of its compliance with industry standards and its ability to support your current needs and future business initiatives.

Prioritize by value the best course of action for remediation, upgrades, and optimization and reduce downtime due to physical layer implementation.

By charting your current and future needs, you gain insight into where you are, where you want to go, and what it will take to get there, enabling you to manage your business more strategically and efficiently.

A Physical Infrastructure Assessment provides an engineering-based analysis of your infrastructure. With this analysis, your infrastructure will be compared to existing requirements and various industry standards, which will result in recommendations for your controls and information network infrastructure for:

1. Assessing the Present Infrastructure Condition
2. Planning for a new Infrastructure Deployment
3. Migrating or refreshing a legacy architecture

**Physical Infrastructure Assessment Services**

Panduit Physical Infrastructure Assessment Services can provide a comprehensive report based on standards and best practices that details the health of your operations from the Control Room to the Plant floor including Mechanical, Impact, Chemical/Climatic, Environmental (MICE) level for control panels and network topology which can be to be used as justification for funding remediation, optimization and upgrade activities. With evaluation and ratings based on industry standards and best practices documented by groups such as ODVA, MESA, TIA/EIA, Cisco, Rockwell Automation, Panduit focuses on seven key physical infrastructure systems, over twenty sub-systems, and over 140 detail areas to optimize your physical infrastructure.
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Business Objectives
The Physical Infrastructure Assessment can help you baseline the capabilities within your current operation and ease the deployment of industrial solutions by:

• **Evaluating** your systems overall robustness, data security, connectivity and operational safety
  - Prioritize by value, environmental (MICE) considerations and impact
  - Determine the best course of action for remediation and cost savings
• **Assessing** the present infrastructure condition
  - Issues prevention
  - Resolutions to existing problems through an on-site evaluation
• **Planning** for Infrastructure Deployment
  - Mapping requirements, functional, feature and needs (logical) into a physical architecture
  - Generating analysis focused on optimizing the design, implement, operate and maintain life cycle phases
  - Specifications for bid document and proposal level Bill of Material (BOM) details for installation and proposal evaluation to help shorten the time to ROI
• **Upgrading and Migrating** legacy infrastructure
  - Preparation to adopt IT Standards into industrial environment
  - Convergence readiness plans and implementation steps for refreshing ‘aged’ or legacy architecture to maximize the business value provided by new technologies

Services to Identify and Solve Complex Challenges
Assess your physical infrastructure to determine current state and future readiness of your Control Room/Micro Data Center or Industrial IT and Control Network, including condition of the media, pathways and grounding/bonding implementation.

A deep-dive assessment can:

• Reduce downtime
• Avoid design compromises that affect noise immunity and performance
• Fix problematic issues by systematic implementation of Telecommunications Grounding (TIA) and Bonding
• Protect your assets with physical network security, OSHA/IEEE/NFPA safety compliant solutions
  (for example Lockout/Tagout, and Arc Flash, Thermal evaluation)

Want to Get Started?
Contact your Panduit Sales Representative or e-mail AdvisoryServices@panduit.com.

Why Panduit?
For over 50 years, Panduit has provided innovative physical infrastructure solutions for clients. We have developed solutions that provide your network with higher throughput, more reliably and can reduce your operating expenses. Our focus has been and will continue to be on how the physical layer interacts with the logical layers of the network. Therefore, we can provide you with faster problem identification, better solutions, and more efficient implementation of those solutions. By integrating the physical and logical infrastructures, this approach minimizes risk, increases flexibility, and delivers maximum performance throughout your network.