ISA Resources for the Building Automation Systems Technical Interest Group

ISA Education and Training
Building automation is a highly technical field that requires a diverse education. ISA provides courses that range from a general introduction to the field to technical courses in drawings, advanced security, and everything in between. Options for training include conferences, web-based, self-study, and classroom courses and products.

ISA Certifications
ISA certification provides an objective, third-party assessment and confirmation of a person’s skills, specialized education, training, and knowledge in automation. Building automation systems professionals and their employers find that certification can improve competency and effectiveness on the job. ISA offers two certifications:

- The Certified Automation Professional® (CAP®) program is for designers and engineers who are typically responsible for projects or product development.
- The Certified Control System Technician® (CCST®) program is for installers and troubleshooters for projects and systems.

ISA Standards for Building Automation Systems
A wide range of ISA’s standards are applicable to building automation systems. Topics include control system security, alarm management, documentation, control valves, specification forms, valve actuators, and enterprise control system integration.

Alarm management is more developed in other industries than it is in building operations. This is particularly true for the process industry. ISA developed the ANSI/ISA-18.2 standard in 2009 for the management of alarm systems for process industries. While the details and applications are different than in building operations, the methodology for development of an alarm management plan is sound, and should be of value to building operators.

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Join BASTIG today!
Membership in BASTIG is available with an ISA membership. Join us today and gain access to professional knowledge, advice, and networking that can help you improve your automation processes for safer, more efficient building systems.

Visit [http://isabastig.org](http://isabastig.org) or email us at info@isabastig.org to join now.
An ISA Technical Interest Group provides members with the support that is essential to continuous professional development in their specific area of interest, industry or technology.

The ISA Building Automation Systems Technical Interest Group (BASTIG) will help building automation professionals streamline processes, while improving safety, efficiency, and profitability.

Professionals who design, build, install, troubleshoot, operate, and manage building automation systems must adhere to best practices to ensure optimum system operation and performance. BASTIG was formed to aid these professionals as they apply available standards and technology to building control systems.

BASTIG seeks to:

- **Advance the Performance of Building Systems**
  Energy-efficient and operationally efficient building systems begin with automation. Automation impacts the performance of all systems and components, including building automation systems, lighting, power metering, access, transport, and information technology. The advances in—and the abundance of—building systems technologies make it imperative to have standards that ensure safety, security, and reliability for these complex systems.

- **Unify the Functionality of Diverse Systems**
  A key focus of BASTIG is to help building automation professionals make the various technologies and systems within a building work together. It is neither economical to install sensors multiple times to acquire the same data, nor is it practical to address data availability on every project. Instead, applying automation standards to these diverse technologies can lead to a unified and more economical functionality.

- **Apply Established Standards and Practices**
  BASTIG supports the incorporation of established standards and practices in the design, installation, and maintenance of building systems, as this reduces costs and improves safety.

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The Advantage Standards Bring to the Building Automation Profession

- Defining and controlling interactions between sub-systems streamlines processes and improves industry efficiency as well as the safety and security of the building and its occupants
- Automating controls based on usage and need is cost-effective and efficient
- Following established standards better enables building maintenance staff to effectively respond to emergency situations, to implement appropriate alarm management, and to employ clear communications for operation and maintenance