01 Mobile 911 Calls and Texts Must Get Out with Location Accuracy

02 Mobile Mass Notifications Must Reach Building Occupants

03 First Responder Communications Must Work

Who we Are:

The Safer Buildings Coalition is the only advocacy group and resource for everything related to solving for In-Building Wireless "Dead Zones".

### Our Scope includes all In-Building Technologies:

Commercial Cellular (LTE / 5G) • LMR (Land Mobile Radio) • Emergency Responder Communications Enhancement Systems (ERCES) • Private LTE • Future Technologies.

When wireless macro (outdoor) networks are deployed, often signals cannot penetrate into buildings and other structures, creating "wireless dead zones" or areas where radio frequency (RF) coverage is inadequate. The "in-building coverage problem" occurs in both public safety and commercial cellular networks. The Safer Buildings Coalition was founded in 2012 to address this problem.

What we Do:

■ **Assuring Workforce Competency** - In-building wireless communication is a critical challenge today. The Safer Buildings Coalition provides a rich and extensive program of in-person seminars and on-line resources for all ERCES stakeholders: AHJs, Radio System Operators, Building Owners, and Industry.

We collaborated with NICET to establish the definitive Competency Certification program for ERCES: IB-PSC - Visit NICET.ORG for details.
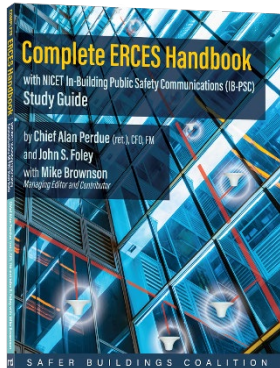
The Complete ERCES Handbook with NICET Study Guide is the industry-leading publication that outlines every aspect of in-building wireless communications solutions:

- Essential for Jurisdictions and Industry
- Best Practices, Rules, Codes, and Standards
- The Math, Science, and Technologies
- NICET Certification Requirements
- *Available in single copies or in bulk orders*

erceshandbook.com

■ **Advocacy** - The Safer Buildings Coalition is active at the Federal, State and Local level, working with agencies and organizations like the FCC, DHS/CISA, APCO, TIA, UL (Underwriters Laboratories) the International Association of Fire Chiefs, the NFPA and ICC, and others to advocate for public policy and Public Private Partnerships that contribute towards achieving the SBC mission of making buildings safer through technology.

■ **Codes and Standards Development** - We are working with stakeholders to propose changes to model fire codes produced by the International Code Council (ICC) and the National Fire Protection Association (NFPA) related to Public Safety communication within buildings. Codes and standards development is a continuous process in both model codes/standards organizations (the ICC and NFPA).

■ **Industry Advancement** - The Safer Buildings Coalition believes that a well-informed, highly competent, and robust technical industry is required to provide quality goods and services that enable safer buildings. We are committed to codes, standards, practices, and policies that are technically rational and commercially feasible that achieve the Safer Buildings Coalition's Mission.

# Assuring Availability of Public Safety Communications

Eliminating Wireless Dead Zones Inside Buildings

When wireless macro (outdoor) networks are deployed, often signals cannot penetrate into buildings and other structures, creating "wireless dead zones" or areas where radio frequency (RF) coverage is inadequate. Often labeled "the in-building coverage problem," it occurs in both public safety and commercial cellular networks. The Safer Buildings Coalition was founded in 2012 to address this problem.

Managing Noise and Interference

Fire and Building Codes mandate in-building coverage, typically enabled by Signal Boosters. It is essential that these solutions enable communications but do no harm. Keys to this:

- Properly deployed technology, facilitated by education, best practices, and defined processes.
- Increasing awareness of the common causes for interference and ways to mitigate them.
- Driving innovation in wireless technologies used to solve for in-building wireless dead zones.
- Advocating for improvements in policy and regulation focused on proper RF operation.
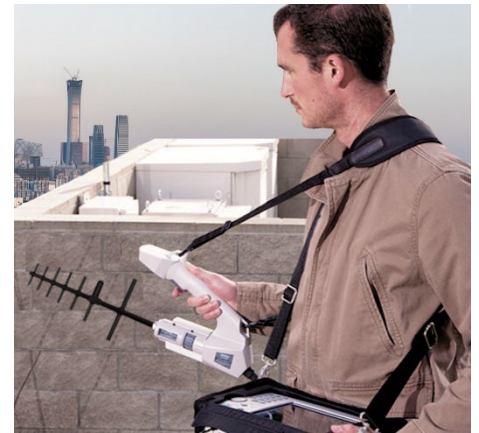
Enabling First Responder Broadband Communications Inside Buildings

Broadband communications for first responders must be available inside the built environment where first responders do so much of their work. Keys to this:

- Raising awareness among fire and building code officials that broadband (cellular) services used by first responders are covered by the codes and standards that mandate in-building coverage.
- Driving collaboration and innovation in the wireless industry to make in-building broadband coverage more reliable and resilient.

Facilitating Dialogue between Public Safety and Industry

The Safer Buildings Coalition conducts seminars across the US and Canada where public safety staff (radio shop, fire protection, operations) and industry (service providers, manufacturers, distributors, system integrators) can learn together and dialog about the challenges and best practices in deploying in-building coverage.

Policy and Thought Leadership

SBC drives regulatory and legislative policy at the federal, state, and local levels:

- NG9-1-1 and Location Accuracy evolution.
- Wireless Workforce Development.
- Opening spectrum and technologies for in-building use.
- Improving School Safety through deployment of in-building communications solutions.