# Information Bulletin

In-Building Radio Communications Requirements

**District of Lake Country**
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Purpose

The purpose of this bulletin is to inform developers of the requirements for In-Building Radio Communications Coverage to ensure compliance with the Lake Country Fire Department standards for effective communications during emergency incidents. Please ensure the most current Fire Prevention Bylaw is referenced, available on the District's website at www.lakecountry.bc.ca.

Overview

Reliable in-building radio communications are considered life-safety critical systems, as they enable effective coordination and safety of emergency responders during fire and other emergency incidents. The in-building radio system must be designed to support emergency operations within the building in accordance with the technical requirements of the Regional District of Central Okanagan (RDCO) Regional Radio Network and the Lake Country Fire Department. The system shall include:

- A primary dedicated radio frequency for tactical operations within the building, and
- A secondary emergency backup channel for firefighter emergency use (e.g., "Mayday" situations).

Performance Requirements

Reliable two-way radio communications, as defined in In-Building Radio Communications Informational Bulletin (or the updated name), must be achieved between personnel operating inside the building and those outside the building using the assigned channels. All two-way communications shall meet Delivered Audio Quality (DAQ) standards as specified in the referenced Informational Bulletin.

System Design and Installation

The design and installation of any technology required to meet in-building communications reliability — such as Distributed Antenna Systems (DAS), Bidirectional Amplifiers (BDAs), radiating cable, passive reflectors, and antenna systems — shall conform to industry accepted standards and best practices for public safety radio systems. All wiring and components must comply with CAN/ULC standards for circuit survivability under fire and hose stream exposure. Active amplification systems must be licensed by Innovation, Science and Economic Development Canada (ISED) and must comply with the applicable Standard Radio Systems Plan.

For more Information

- Click to review the In-Building Radio Communications Requirements package
- Contact the Building Department at building@lakecountry.bc.ca or call 250-766-6675.

*Please note: Bulletins are prepared to provide convenient information for customers and should not be considered a replacement for reviewing the bylaw or associated legal documents. If there is any contradiction between this guide and relevant municipal bylaws and/or applicable codes, please refer to the bylaws and/or codes for legal authority.*