SBC 2021 First Annual Member Awards Nomination

The Safer Buildings Coalition wishes to recognize outstanding member products and projects through a new juried evaluation.

About the Safe Inside Product and Project of the Year Awards Program

SBC's **Safe Inside Product of the Year** award recognizes new products in the in-building public safety communications market.

This program will provide SBC's audience with information about the top new product in their fields.

SBC's **Safe Inside Project of the Year** award recognizes outstanding projects in the in-building public safety communications market.

This program will spotlight projects for their impact, quality of workmanship, innovation, and contribution to reducing noise and interference.

2021 Program Schedule

- August 1: Entries open
- Sept 1: Entry deadline
- Sept 27th: Finalists announced @ SBC Member's Dinner
- October 25th: Winners notified
- Nov 10th: Winners Announced @ IWCE In-Building Forum

Rules:

1. Entries may be submitted by SBC Current Member Organizations only.
2. You may submit a Product, a Project, or both.
3. One entry per category per member organization.
4. Entries must be submitted on behalf of the original manufacturer or project system integrator, and not on behalf of another organization.
5. Entries will be screened for compliance to rules.
6. All entries that meet eligibility requirements are
7. All information requested must be provided. An incomplete form or a form providing misleading or false information will result in disqualification.
8. An authorized representative of the member organizaiton must complete the entry form verifying all information.
9. SBC will convene a cross-functional panel of its choosing to judge the entries.
10. Entry Fee: Waived for 2021

Eligibility requirements

Products entered into the 2021 program must meet the following criteria:

1. Products must specifically pertain to the in-building public safety market.
2. Products should demonstrate an innovation that furthers the mission of making buildings Safer Inside.
3. Products must have been made first available for purchase in the North American market between August 1, 2020, and August 1, 2021.
4. If the entry is a new version of a previously available product, the entry must represent a major modification or redesign of the product.
5. New versions of software must offer new capabilities and significant enhancements.
6. Products must be available for purchase in the United States.
   All information fields on the entry form are completed and accurate regarding the product and the manufacturer.

Projects entered into the 2021 program must meet the following criteria:

1. Projects must have been completed in the North American market between August 1, 2020, and August 1, 2021.
2. Projects must specifically pertain to the in-building public safety market.
3. Projects should demonstrate their impact, quality of workmanship, innovation, and contribution to reducing noise and interference.

How to Enter:

Use the form below to submit your entry(s).

Submitter Verification

- This information is necessary to ensure each Organization makes no more than one nomination per category

Name   Lizanne McReelis

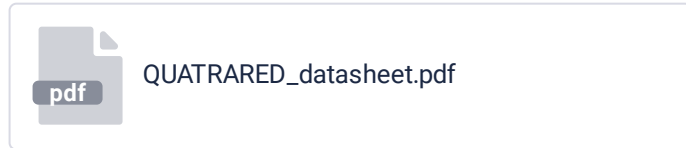**Email**   lizanne@boulevardpr.com

Your Organization	Nextivity Inc.
Your Title	PR Consultant

Product Nomination

Name of Product	Cel-Fi QUATRA RED
Date first available in the North American Market	Monday, August 24, 2020
Product Description	Developed with the needs of first responders, building owners, installers, and Authorities Having Jurisdiction (AHJs) in mind, Cel-Fi QUATRA RED is the first all-digital, in-building public safety solution with built-in installation tools, monitoring, and a no-noise guarantee in the market today. QUATRA RED provides consistent LMR (Land Mobile Radio) 700/800 MHz and FirstNet coverage in the most challenging indoor environments while guaranteeing full compliance with the most current fire codes.

QUATRA RED Class A or Class B 700MHz/800MHz is a channelized ERCES (Emergency Responder Communications Enhancement System solution) Smart Signal Booster. It delivers a best-in-class solution with 56 individually configurable channels on the Class A unit and 28 channels with 100Khz and 150kHz bandwidth options on the Class B variant (700MHz and 800MHz) and 1W downlink per Coverage Unit (CU) per band. Channelized means no network interference is guaranteed.

Communication is essential in critical circumstances, which makes reliable LMR and FirstNet coverage a matter of life or death. Cel-Fi QUATRA RED features the most advanced in-building technology built into an Emergency Responder Communications Enhancement System (ERCES), ensuring there are no communication problems during a crisis. |
| **Please describe the innovative nature of this product** | The first release of Cel-Fi QUATRA RED was in August 2019 but the latest version, which this nomination is based on, was released on August 24, 2020, with new functionality. Today, QUATRA RED is the only ERCES (Emergency Responder Communications Enhancement System solution to concurrently provide LMR coverage and true carrier-grade, multi-band support for FirstNet.

In addition to delivering the industry's best talk-in and talk-out performance with a no-noise guarantee, QUATRA RED offers real-time, end-to-end system monitoring and management through the Cel-Fi WAVE PRO application or Cel-Fi WAVE Portal. With comprehensive support from the planning stages to implementation, mixed with QUATRA RED's Power-over-Ethernet (PoE) architecture, Cel-Fi's public safety ecosystem significantly reduces installation |

time and costs, making QUATRA RED the most compelling solution on the market.

Web link to product page (if any)

https://www.cel-fi.com/quatrared/

Attach any spec sheets or other materials (if any)

| pdf | QUATRARED_datasheet.pdf |

Project Nomination

Name of Project

Cel-Fi QUATRA RED Delivers Cost-Effective Public Safety Solution for Supplier of Fresh Produce and Dry & Canned Goods

Date completed in the North American Market

Thursday, July 1, 2021

Project Description

A wholesale produce company that supplies fresh produce and dry and canned goods daily to grocery stores, foodservice distributors, and restaurants across Virginia, North Carolina, and South Carolina, recently constructed a new 50,000 square-foot warehouse. The warehouse has eight rooms designed as coolers with racking that are completely refrigerated and a 3,000-square-foot front office area.

The County where the warehouse is headquartered had recently adopted a new public safety guideline that mandated all new buildings have good two-way radio coverage for First Responders in order to secure a Certificate of Occupancy (CO). Testing inside the new facilities showed the level of radio coverage was not adequate to meet the new standards. This was an unexpected expense for the company, making cost a big factor, so they requested quotes from two vendors. An integrator partner of Nextivity proposed QUATRA RED that cost 15% less than the other vendor proposal and won the bid.

Please describe the innovative nature of this project

After completing walk-through testing to assess public safety radio coverage in the new warehouse, the system integrator selected Cel-Fi QUATRA RED as the solution to help the company comply with its County's new public safety mandate.

QUATRA RED is a Class A/Class B 700MHz/800MHz channelized Emergency ERCES Smart Signal Booster that amplifies both Land-Mobile-Radio and FirstNet signals. It is designed to provide consistent coverage in the most challenging building structures and to guarantee full compliance with the most current fire codes. Its Power-over-Ethernet-based architecture and Cel-Fi patented algorithms for automatic setting of uplink and downlink

gain, reduce time and cost of installation significantly.

In the new warehouse, a QUATRA RED Network Unit (NU) – the head end of the system – was installed in an IT closet. The NU processes FirstNet and LMR off-air signals digitally to provide reliable and interference-free coverage. Ethernet cable was then run to the QUATRA RED Coverage Unit (CU) also installed in the IT closet. The CU amplifies FirstNet and LMR signals up to 24 dBm and 30 dBm output power. To distribute the maximum amplified signal throughout the facilities, the system integrator designed the system connecting 13 service antennas to the CU with the minimal coax cable runs to minimize RF loss.

The County required Neg 95 test readings in order to issue a Certificate of Occupancy. Once the system was installed, the signal throughout the facilities was Neg75 or better. The AHJ the deemed the new warehouse was compliant with the new public safety guideline. It took a two-man team about one-week in total man hours to pull the cables and do the terminations, and to get the system commissioned.

"Cel-Fi QUATRA RED boosted their signal and doesn't create any noise back to their network," says the system integrator. "It works and gives them good signal and coverage throughout the building at a cost that better fit their budget."

I attest that I am authorized to submit on behalf of my organization

Attest