# SmartMsg RIU Radio Interoperability Unit

## Features

- **Communications interoperability for all UHF, VHF, digital band & HAM radio systems**
- **Integrated and interoperable multi-device alert notification & acknowledgement tracking**
- **VoIP based convergence of multiple voice capable devices including radios, phones (Cell, SAT, IP & PBX) and computers**
- **Cellular data, satellite data and broadband wireless data access support**
- **Intelligent "plug & play" for communications interoperability, with smart recognition of agencies and radio types accessing the network**
- **Distributed, scalable and redundant architecture**
- **Real-time audio buffering to accommodate individual radio system latency**


SmartMsg, Codespear's flagship product, is a software-centric solution that provides comprehensive communications interoperability among multiple agencies and communication devices. Disparate, non-interoperable communication hardware has caused first responders and other public safety personnel significant difficulty in communicating with each other. In addition to the need for interoperable live communications, public safety institutions must have the ability to broadcast time-sensitive alerts to both target groups and mass citizenry. Interoperability and alerting concerns require a more immediate solution in order for communities to have the best possible chance of minimizing catastrophe.

SmartMsg blends communications interoperability, alert notification, secure urgent messaging, and interactive data sharing into a single, stationary and/or highly portable, seamless software package. This approach to interoperable communications produces a complete solution, which provides critical communications support for emergency preparedness and response, command and control, incident response, and continuity of operations across jurisdictions, agencies and first responders. Each of these capabilities can be used independent of one another, or they can be used in conjunction to deliver a comprehensive, highly flexible, cost effective and easily expandable communications system.

The SmartMsg radio interoperability unit's (RIU) embedded voice-over-IP (VoIP) architecture enables the simultaneous text and voice broadcast of alert notifications to two-way radios, push-to-talk (PTT) enabled devices, PCs, phones, pagers and wireless PDAs. The radio interoperable module also enables integrated real-time communication between two-way radio talk groups, PTT groups, phone devices and PCs. This solution supports radios from different manufacturers, across multiple bands and frequencies (including HAM), and pre-defined talk groups. The SmartMsg RIU consists of a compact hardware appliance and a standard PC configuration, which also can operate as a standard SmartMsg server. Once a radio is docked into the RIU appliance, the VoIP architecture effectively enables that radio as a secure virtual repeater.

DATA SHEET

FEDERAL SIGNAL
Safety and Security Systems

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# SmartMsg RIU Radio Interoperability unit

## Specifications

The RIU occupies a reduced footprint measuring approximately 4" (W) x 6 5/8" (D) x 1 3/8" (H) and weighing only 12.6 ounces. The RIU is powered from a standard PC based USB connection cable, has no heat displacement or venting requirements and does not require an AC power source for operation. An RIU's presence and connected agency radios are recognized automatically by the SmartMsg application. Once an agency radio, PTT capable phone, mobile, or base station console is "docked" into the SmartMsg RIU via Federal Signal SmartCables (identifying the cable's chip ID, agency owning the cable, and radio model settings), the VoIP architecture enables that radio as a virtual software based repeater, given the fact that this device can now operate locally at the local incident site and / or communicate thru a wired, or wireless IP connection, over a SmartMsg distributed server deployment. HAM radio signals can also be used to effectively transport conventional radio band communication across a wide area.

The SmartMsg application suite enables incident site and wide area interoperable two-way communication & alerting across public safety radios, computers, cameras, land-line phones, cellular phones, Satellite, PA systems and outdoor siren systems.

The system can be deployed in a stationary or mobile mode on AC or DC Power, with support for multiple wireless communication protocols.

The Codespear-enabled Federal Signal SmartMsg RIU is part of the Federal Signal Public Safety Systems industry platform.

| RIU Specifications |
|---|
| 12.6 oz |
| No heat displacement |
| No venting requirements |
| Powered via PC USB port |
| SmartCables auto ID an Agency's Radio System |
| Talk Privileges and radio system settings |
| SmartCables for deployment ease |
| Unlimited RIU's supported at incident site or across dispersed network |
| Cellular, satellite and private data wireless for bridged communications |

| Physical Specifications | |
|---|---|
| Height | 1-3/8" |


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