



# MISSION CRITICAL INTERNET OF THINGS

EARLY WARNING ALERTING SOLUTIONS





# SOUND THE ALARM

## NATURAL AND MANMADE DISASTERS ARE ON THE RISE

Providing early, clear, and continuous communication during an emergency is key to preventing loss of life and minimizing panic.

Extreme weather events are on the rise, such as tornadoes, hurricanes, floods, tsunamis, and earthquakes. These extreme weather events, along with threats from terrorism and disasters from human negligence, create an urgent need for early warning systems that can provide community members with timely notifications to help them stay informed and take appropriate action.

When emergencies strike, it is imperative to reliably deliver the right information to the right people, fast, in order to best protect residents and minimize the impact to individuals, structures, and the environment.

Mission Critical Internet of Things (MC-IoT) from Motorola Solutions can help, allowing you to collect, analyze, and share real-time information from your mass notification and alert systems. With event-specific emergency communications sent to targeted audiences, messages are more effective. Motorola Solutions MC-IoT enables smarter, more efficient, and more proactive communications, to keep communities as safe as possible.



**FREQUENCY AND INTENSITY**  
of severe weather has increased



**SIREN SYSTEMS EXPOSED**  
to increasing number of cyber attacks



**TORNADO CLUSTERS'**  
frequency are on the rise



# INTELLIGENT SIREN SOLUTIONS IN ACTION

## MOTOROLA SOLUTIONS DELIVERS

Motorola Solutions enables operators and system maintenance personnel to pro-actively manage and maintain community wide siren and emergency alert systems. Our MC-Edge™ gateway enables exceptional remote monitoring capabilities and instant siren activation over the ASTRO P25 network.

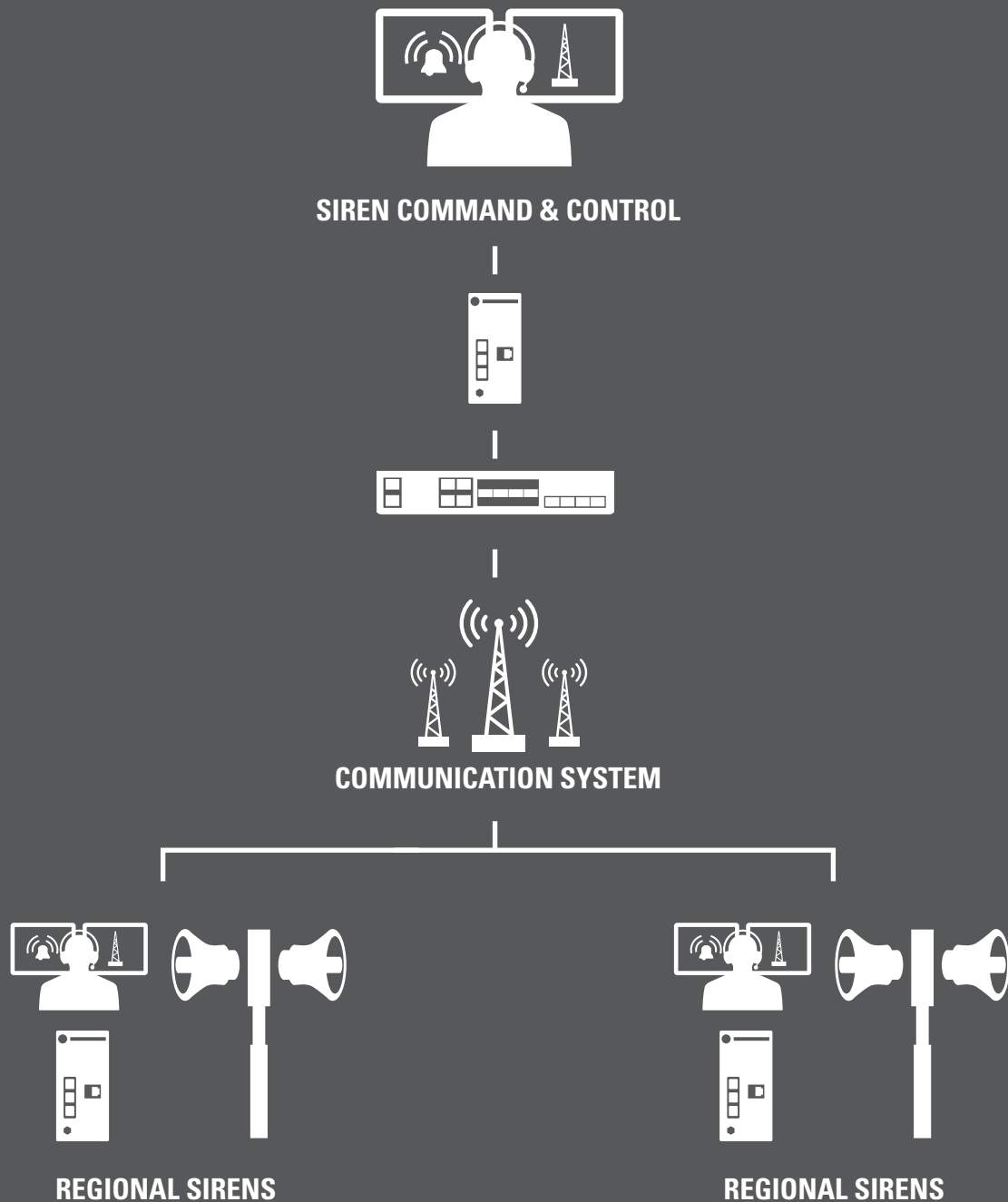
Essential Services help ensure peak system performance and system uptime. Our services provide access to technical support resources for troubleshooting and maintenance, plus system and application software upgrades.



# HIGH LEVEL SYSTEM ARCHITECTURE

FIVE PRIMARY COMPONENTS MAKE UP THE EMERGENCY WARNING SYSTEM.

1. **Activation Control Point** - Provides the user interface for the operator to monitor and control the sirens.
2. **Field Interface Unit (FIU)** - Acts as the communication gateway to the sirens.
3. **Communications Network** - ASTRO P25 and additional parallel communication link.
4. **Siren MC-Edge (APX4000) Controller** - Integrates to the sirens in order to provide monitor and control capabilities.
5. **Sirens** - Provide the audible alerting mechanism. Existing or new sirens will be supported.





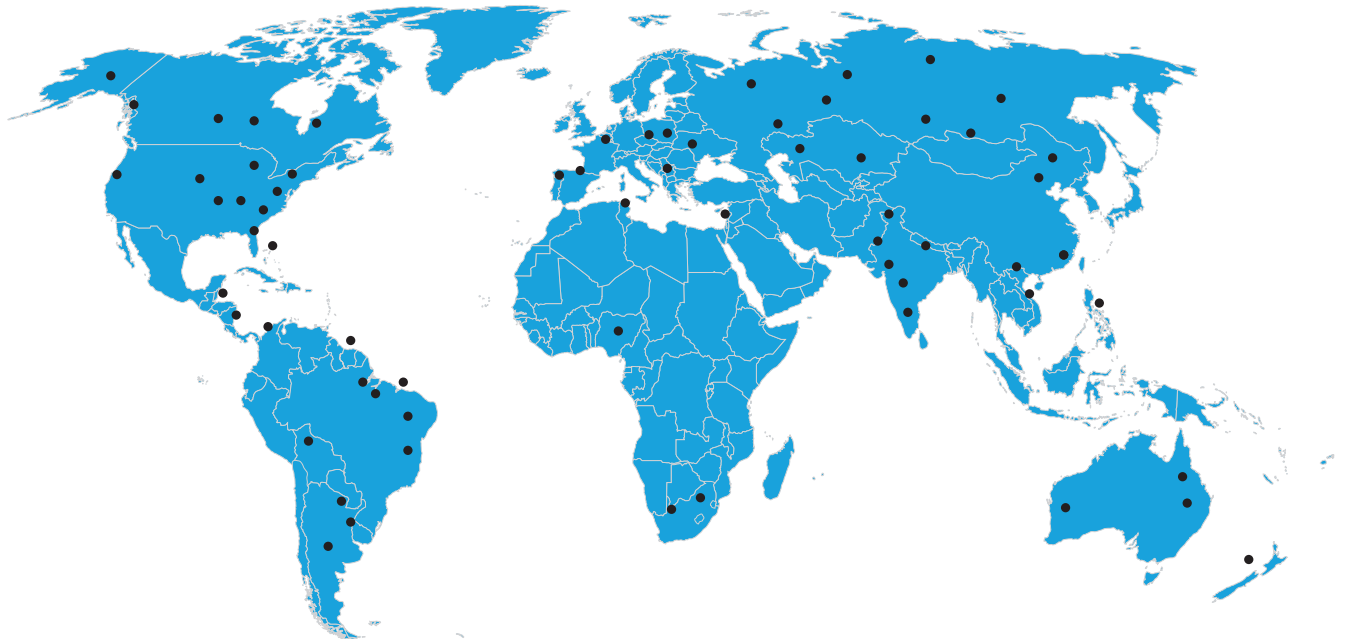


# WHY MOTOROLA SOLUTIONS?

Motorola Solutions Mission Critical IoT enables smarter, more efficient emergency communications, so you can proactively and reliably safeguard your community, extend the life of your emergency systems, and optimize operating efficiencies. Our MC-IoT solutions help you better collect, analyze, and share real-time event-specific information from your mass notification and alert systems.

Our extensive partner ecosystem is certified to develop, integrate, and deploy MC-IoT systems. With Motorola Solutions MC-IoT, you can more reliably deliver the right information to the right people in any situation, minimizing an emergency's impact on residents and keeping communities safe and informed.

- Over 200,000 Mission Critical IoT and Telemetry communication controllers installed worldwide
- Mission Critical Security - Lock down your network with end-to-end encryption, access control and logging of events and information flow
- Benefit from multiple layers of network resilience and Motorola Solutions proven experience in building mission critical networks
- Process data and trigger actions at the edge, increasing response times and automating workflows



For more information, please visit [motorolasolutions.com/mciot](https://motorolasolutions.com/mciot) to learn more on how you can enable smart and secure siren and early warning notification systems.



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. [motorolasolutions.com](https://motorolasolutions.com)

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2020 Motorola Solutions, Inc. All rights reserved. 02-2020