

# AdaptAlert™

## RF Activation System - BSC

The Warning Systems, Inc. (WSI) Radio Frequency (RF) Activation System - BSC provides emergency managers a web-based link to activate tone-encoded systems. This fast and user friendly web-based system can be accessed from the internet, local network, or directly when a network connection is unavailable. The system is comprised of a Communication Processor (CP) and an RF Basic System Controller (BSC). The CP provides network connectivity while the BSC communicates with the existing transmitter. This adds redundancy and remote capability for outdoor sirens, pagers, radios and other warning devices. The system can activate devices that utilize DTMF, two-tone or single-tone protocols.

If the target device receives over-the-air audio, the system can use live audio, stored audio, or WSI's Text-to-Speech (TTS) with preview capability. Prerecorded audio files can also be stored as a template for rehearsed scenarios or uploaded and then played on demand. The system can also be activated with a Common Alerting Protocol (CAP) message using TTS or a prerecorded wave file if audio is needed. This allows activation of the targeted RF device to be integrated into another dissemination system such as those that send email and text alerts. The synthesized audio can be previewed when using the on-board web interface or when accepting a CAP message from another system. It can also be trained phonetically to compensate for alternate pronunciations or regional dialects.

The AdaptAlert RF Activation System – BSC is password protected and uses the highest available encryption (SSL 3.0). The system has three RJ-45 Ethernet interfaces, but can also be configured for encrypted wireless networking. Additional security can be implemented using firewall rules.



## The AdaptAlert™ RF Activation System – BSC features include:

- Web-based for remote access
- On-board Text-to-Speech (TTS) audio generation
- 1U Rack size
- CAP 1.1 compliant
- Username and password protected security supported by SSL 3.0 with 128 bit encryption
- Time-stamped message logging
- Standard -10dBm 600 ohm balanced auxiliary audio and backup controller input lines and transmitter output lines.
- Four-wire transmitter output: isolated push-to-talk and audio.

Power requirements: Less than 10 watts: 18VDC/500mA wall power supply

Input impedance: Computer Audio In: 10K unbalanced

Output impedance: Console Audio In: 600 ohms balanced  
Transmitter audio: 600 ohms balanced

Input signal level: -10dBm

Output signal level: -10dBm

Distortion and noise: < 0.5%

Frequency response: 35 Hz to 15 kHz



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