



## EAS APPLICATION NOTE No. 1002

### MIXED MANUAL AND AUTOMATIC OPERATION OF THE EAS 911 WITH THE 941A

The EAS 911 Encoder/Decoder can be operated in mixed manual and automatic modes in conjunction with EAS 941A Remote Control/Status Modules. This permits a flexible combination of attended and unattended operation at co-located stations.

The EAS 941A has an On-Air Control Output that is active only when that 941A has requested an on-air activity or when it is set for automatic operation and the host EAS 911 forwards a message automatically. Multiple EAS 941As can be set to Manual or Automatic mode independently and each can control a single station's portion of an EAS 940A Program/Transmitter Interrupt Unit.

A typical co-located operation might include two attended stations, a station that is attended part of the day, and an automated station, all broadcasting in stereo. The EAS 911 Encoder/Decoder and two EAS 940A Interrupt units could be located in an equipment room; EAS 941As would be located in the attended control rooms, in the partially attended control room and at the location of the automation system. The EAS 941As would be connected to the EAS 911 on a twisted-pair RS-485 interface as shown in Figure 1. The twisted pair can extend to a maximum of 2000 feet from the EAS 911. The On-Air Control outputs of the EAS 941As would be connected to the appropriate control inputs of the EAS 940As.

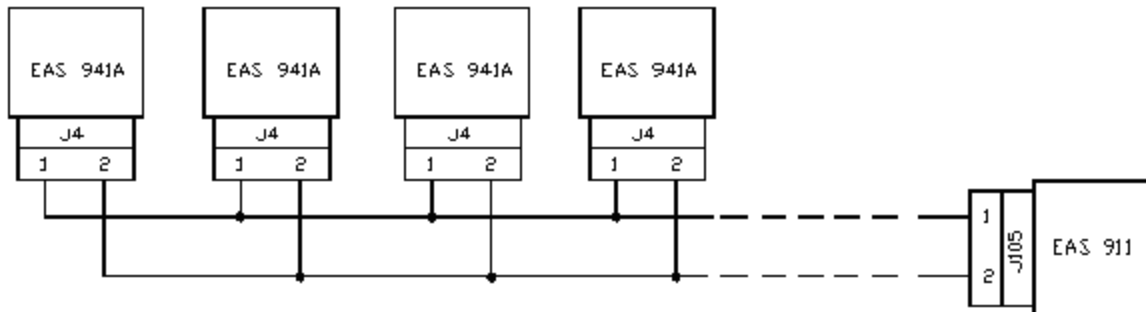


Figure 1. Multiple EAS 941A Interconnections

The EAS 911 would be configured for Auto Forward operation and appropriate events and locations would be programmed for Auto Forwarding. The EAS 941As in the attended control rooms would be set for Manual Forwarding; the 941A in the partially attended studio would be set for Manual operation when attended and Automatic when unattended. The 941A at the location of the automation system can be set for Manual or Auto forwarding as required. See EAS Application Note 1001 for details of the automation system interface.

As EAS messages are received, the EAS 911 will automatically forward those that are programmed for Auto forward. The EAS 941As that are set for Auto Forward will activate their On-Air Controls, interrupt the program audio and route the EAS message audio to the respective transmitters.

The EAS 941As that are located in attended studios can Manually Forward messages. The last received message is stored in the EAS 911 and can be forwarded manually as many times as necessary by separate stations. Studio personnel could review the incoming message and, if appropriate, forward it using their EAS 941A. The EAS 941A that initiates the Manual Forward would activate its On-Air Control and route the message to its transmitter through the EAS 940A.

The EAS 941A connected to the automation system could be set to Auto Forward if the program could be interrupted at any time. If the EAS 941A was set to Manual Forward, the EAS message could be forwarded under the control of the automation system. EAS Application Note 1001 is a good reference for automated operation with the EAS 941A. Typical interconnections of the EAS 911, EAS 941A and EAS 940A are shown in Figure 2.

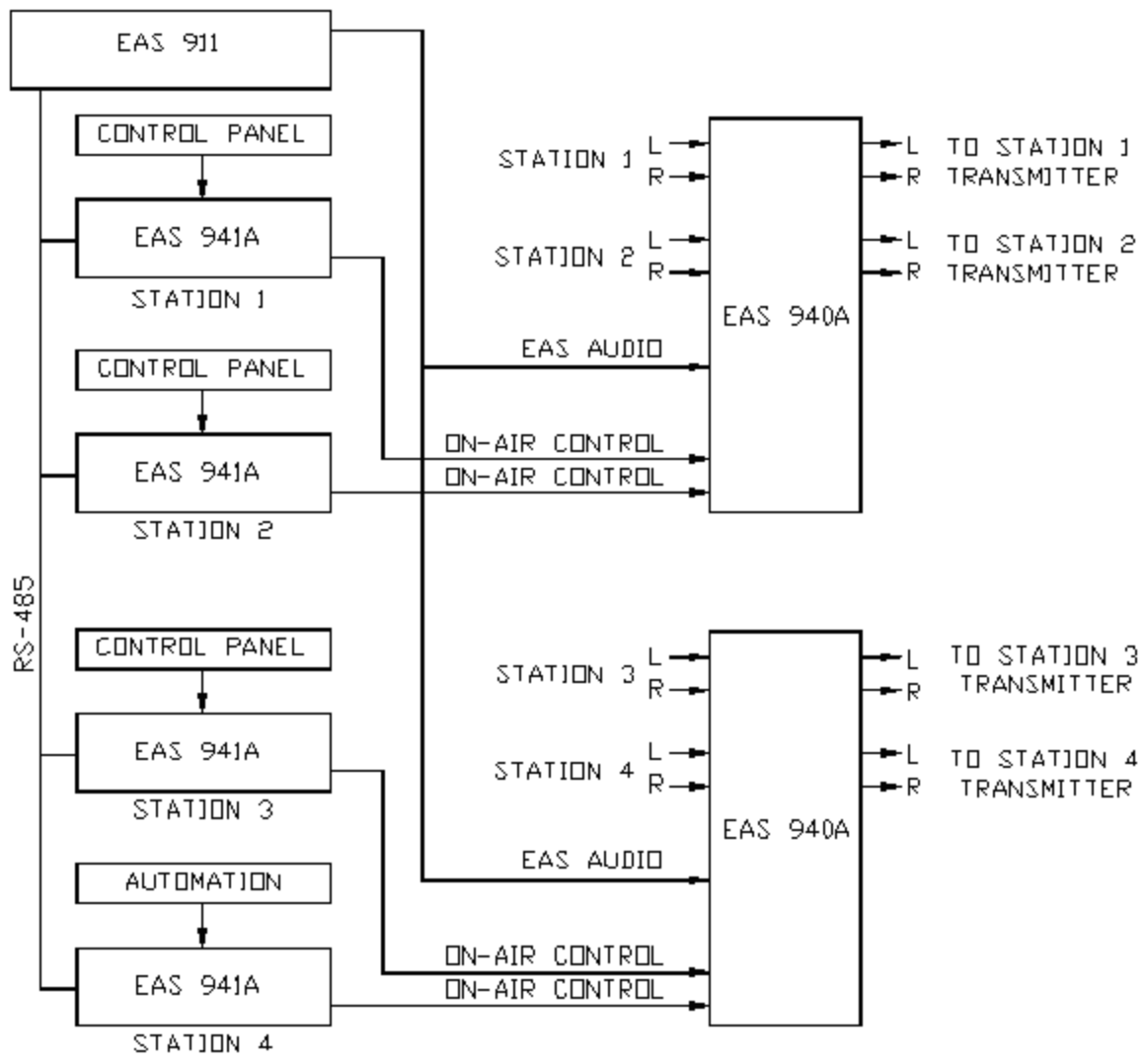


Figure 2. EAS 911, EAS 941A and EAS 940A Interconnections