

## Alert Forwarding over IP with EAS-Net™

### Introduction

Broadcasting is no longer a simple regional concept. Consolidation, cost reductions, and the advent of centralcasting has proven today's broadcaster may have to deal with EAS issues hundred, if not thousands of miles away. The DASDEC™, DASDEC-II and DASDEC-IR (Intelligent Remote) Emergency Messaging Platforms are uniquely suited to this application controllable over a LAN via a web browser or by directly connecting a keyboard/monitor/mouse and using the built-in desktop browser. The DASDEC offers both traditional analog EAS and digital EAS via serial and/or LAN control protocols. The optional EAS-Net software provides the unique capability of forwarded EAS alert data over an IP network between DASDEC's or other EAS-Net compatible devices suited to Centralcasting and other remote monitoring and management.

### System Theory

Each DASDEC model is configurable for remote operation by including the internal radios and EAS-Net software. The DASDEC-IR is pre-configured for local or remote operation by including these options. Remote DASDEC's receive local EAS messages, and then communicate back to a host DASDEC for further processing. Alerts received from a remote site are "packaged" with the EAS data and audio, then encapsulated and encrypted for transport. The communication is accomplished via a public or private IP network with sufficient quality of service to ensure reliable and efficient transmission of the EAS-Net package. A master or host DASDEC receives and processes the EAS package, determining appropriate triggers, serial commands, and audio to route based on its settings. The DASDEC provides substantial filtering flexibility determining which alerts are forwarded based on EAS and FIPS codes for careful tuning of the alert disruptions to programming. EAS-Net based communications works independent of the distance between the remote and host locations – as long as a reliable and relatively fast WAN connects sites.

### Operational Example

Assume two locations; Mytown, USA and Anycity, USA, with the larger Anycity housing the main transmission site and the smaller Mytown remotely located far enough away that it's outside of Anycity's ability to receive local EAS events (FIPs codes are different) -- typical in a Centralcasting model. Since the signals originate in Anycity, it's critical to get any EAS information to this site for processing and distribution to the appropriate receiving area. A properly configured DASDEC or DASDEC-II with EAS-Net software (or a DASDEC-IR) connected by a reliable IP network, solves this problem. Here's are the steps:

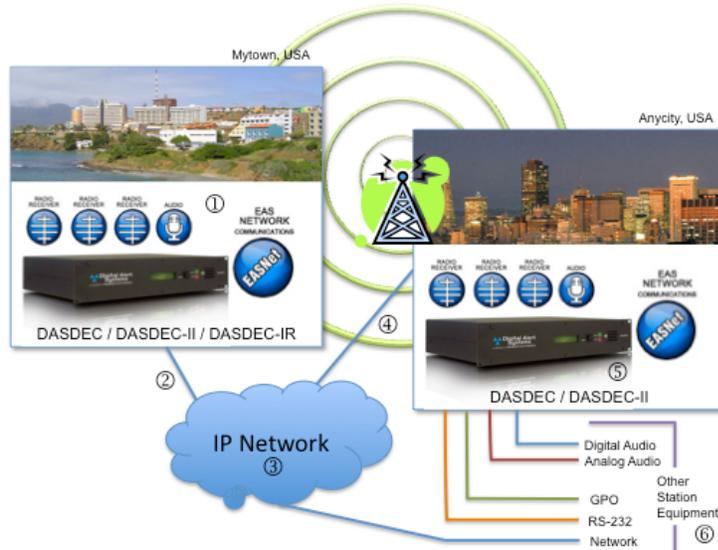


Figure 1. Typical configuration needing EAS-Net inter-site communications

1. Alert data (header and audio) is received and decoded by the Mytown DASDEC.
2. The alert is forwarded manually or automatically (typical) and EAS-Net packages the alert data (from 300K to 3MB) placing it on the IP network for transmission to the host. (EAS-net supports up to 8 remote DASDECs or other EAS-Net hosts.)
3. Transmission over a public or private IP network.
4. The Anycity DASDEC receives the alert data from the Mytown DASDEC via the IP network
5. The Anycity DASDEC processes the alerts (which can also be forwarded) while simultaneously monitoring it's local EAS sources
6. Based on the Anycity settings, various devices are controlled or triggered, eg. control of CG's via RS-232, switching using GPO relays so video and/or EAS audio is broadcast back to the Mytown receiving area.

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Since the DASDEC, DASDEC-II, or DASDEC-IR is a fully functioning EAS decoder, it can process alerts independent of the host if the connection is lost or broken. Further showcasing DASDEC’s technical prowess, the audio from the radios can be streamed over the network, back to the host or to any properly configured browser for monitoring, level adjustment, or tuning.

Digital Alert Systems also offers several networked GPI/O options providing remote switching control over the IP network. Following the scenario above the Anycity DASDEC can send a command back over the IP network to a network switch controlling a piece of equipment in Mytown. Note the addition of the Remote Network GPO device in Figure 2.

Configurations and requirements vary by site and may require additional components to work properly. Please contact your local Digital Alert Systems representative for a complete analysis and quotation.

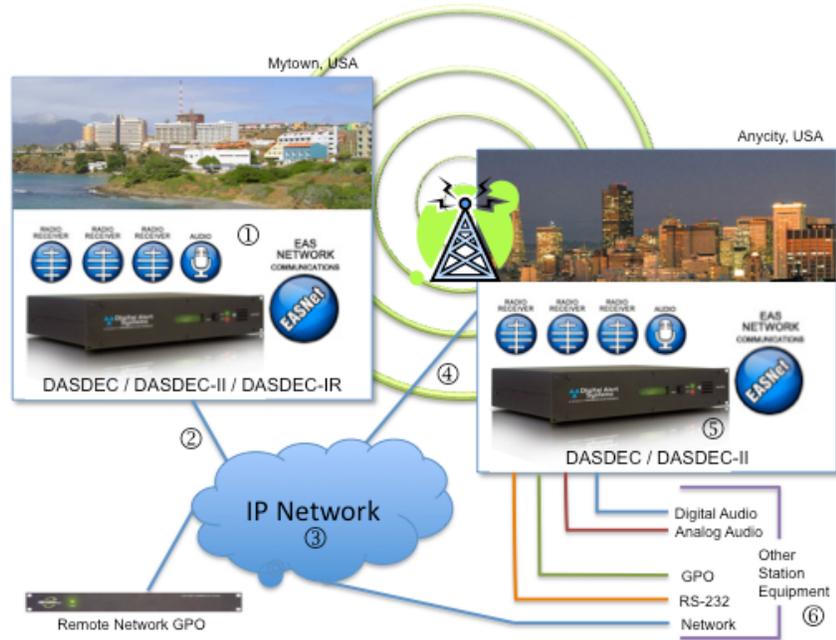


Figure 2. Addition of Remote Network GPO to control remote devices