

## **NEXEDGE® REPEATER CONTROL**

## Situation:

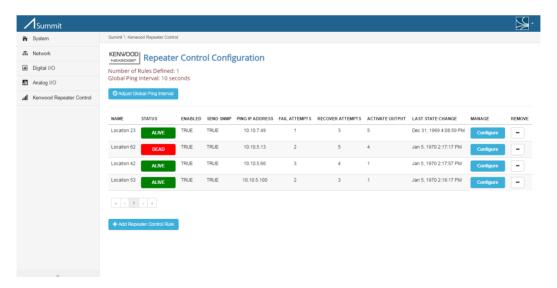
Kenwood trunk radios have, as a network option, an IP link to each of the trunked sites for wide area roaming and calling capabilities. When a repeater site experiences poor IP connectivity, the group of radios that are registered on it can become stranded and may be unable to talk to the rest of the trunking system. They may remain registered on the site with poor connectivity, even though there are other sites available that they could register on, until the connectivity is re-established or the repeater is shut down to allow them to register on another site. Shutting down the repeater can be done manually by pushing a button or automatically by using TASC Systems new intelligent remote terminal unit (RTU), Summit.

## **TASC Solution:**

Summit is an advanced remote platform designed to easily integrate to a wide-variety of operation management systems including siteVIEW APEX. It provides intelligent sensor processing, filtering, logic control and logging. The Summit provides support for a broad-range of sensors and devices with 100 digital and analog input/output ports. Summit has been designed for easy deployment.

Summit's powerful Crest software can also incorporate application-specific software modules. TASC and their partners have created a Crest application module to ameliorate issues of repeaters with failing IP connections. Crest's "NEXEDGE® Repeater Control" module continuously monitors the IP network used to connect that site and if there is a detected drop in connectivity, Summit can automatically remove the repeater from the network, freeing the radios to register with other repeaters.

The status of the network is determined by having the module continuously ping out to a known node - such as the host router for the link network used by the radios. This provides an indication when a stable connection is and is not available.



The Summit can be also programmed to automatically shut down the radio upon detection of failed pings. Conversely, once connectivity is restored to an acceptable level, the Summit will automatically turn the site back on so that the radios may register on it again. Summit's convenient web interface allows users to easily configure the amount of pings to failure, the amount of pings to recovery and time between each ping.