

## BLAST MONITORING WITH AIRLINK® GATEWAYS

### Remote Monitoring for Mining Operations

We were contacted by one of the nation's largest blast monitoring companies. Established in 2012 and based in North Carolina, the company monitors the impact of controlled blasting in quarries across the US. Organizations like them need to deliver fast and reliable data transmissions to their clients and the regulatory agencies that oversee them.



### Company Challenge | COMMUNICATING SEISMOGRAPH DATA

Quarry operators routinely perform controlled blasting in order to replenish their supply of gravel, fill and gradient used in the construction of roads, parking lots, and cement. Legislation requires that such blasting be monitored to protect people, property and the environment. Quarries often outsource the blasting and ongoing blast monitoring to external firms. A seismograph is used to ensure that both ground vibration and air-over pressure are within specified ranges.

### Prior Solutions | RAVEN XT AND LS300 GATEWAYS

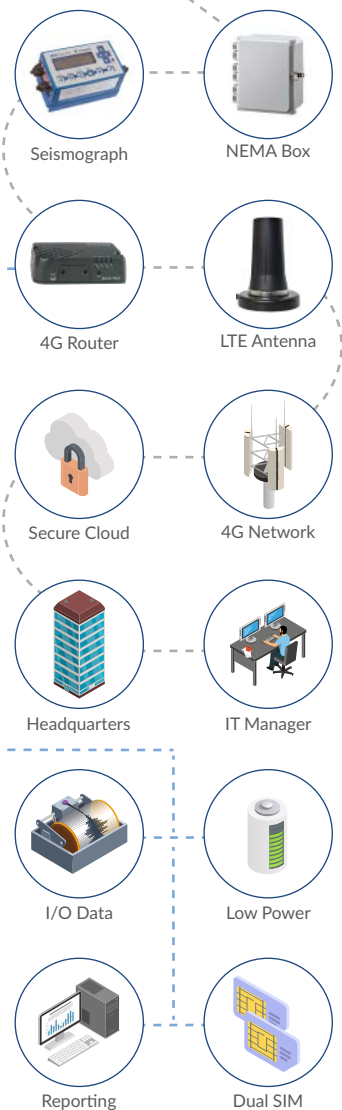
The first time a client contacted the RTO team, we worked to create a solution they could resell to their mining clients. At that time we developed a 2G solution with Sierra Wireless and InstanTel utilizing the AirLink® Raven XT. We incorporated their seismograph along with our gateways and antennas, within NEMA boxes their clients could mount along designated areas at quarries and mines. Later, with advances in 3G technologies, we helped re-engineer their solution to utilize the AirLink® LS300.

### Current Solutions | RUGGED RV50X GATEWAYS

Today, with even greater advances in cellular technology, RTO Solutions Engineers are able to deliver clients the AirLink RV50X® to serve their clients remote monitoring needs. This purpose-built ruggedized low-power router, working in combination with a field-tested and highly durable LTE antenna, enabled wide-area cellular connectivity and real-time event monitoring at each of their clients job sites nationwide.

### Field-Tested Results | FASTER MORE RELIABLE REPORTING

The RV50X and WGRM-WLF were designed for harsh environments and industrial uses like those of mining and remote monitoring companies. The ease of the solution makes it ideal for applications that require reliability and durability. Businesses trust RTO to keep them abreast of the newest hardware - helping them deliver fast and secure data solutions to their clients year after year - in the face of ever advancing technologies.



4G LTE Router:  
**AirLink® RV50X**

Antenna:  
**MGRM-WLF**

Software:  
**ALMS**

CONTACT RTO TO ENGINEER YOUR CONNECTIVITY SOLUTION TODAY