In the event of a disaster, either natural or manmade, a team of first responders must deploy quickly to disaster sites. Due to the high possibility of destroyed infrastructure, a PEAK system will be deployed to meet the needs for power, communication, situational awareness, and water purification. In the case of communications, field users will need to communicate with one another using Local Situational Awareness (LSA) devices as well as with a central field command, also using LSA devices. The central field command will also have access to a global communication network which will allow information to be passed to global headquarters. This system needs to be set up and maintained without extensive training, and provide a feasible networking solution to enable a properly coordinated rescue effort between all deployed PEAK units over the course of a minimum of three days. The communications system facilitates voice and text communications as well as image and video data between LSA central field command and field users. A centralized hub will be maintained at a field outpost along with a dispatcher who then will relay information collected in the field to headquarters. The communications system will maintain operation until a more reliable infrastructure can be established. The communication system works closely with LSA to meet all communication requirements (local and global) for the PEAK system. Figure 1 provides a diagram of the interactions between the Communications and LSA.

![Figure 1 - System Architecture of Comm and LSA Systems](image-url)