

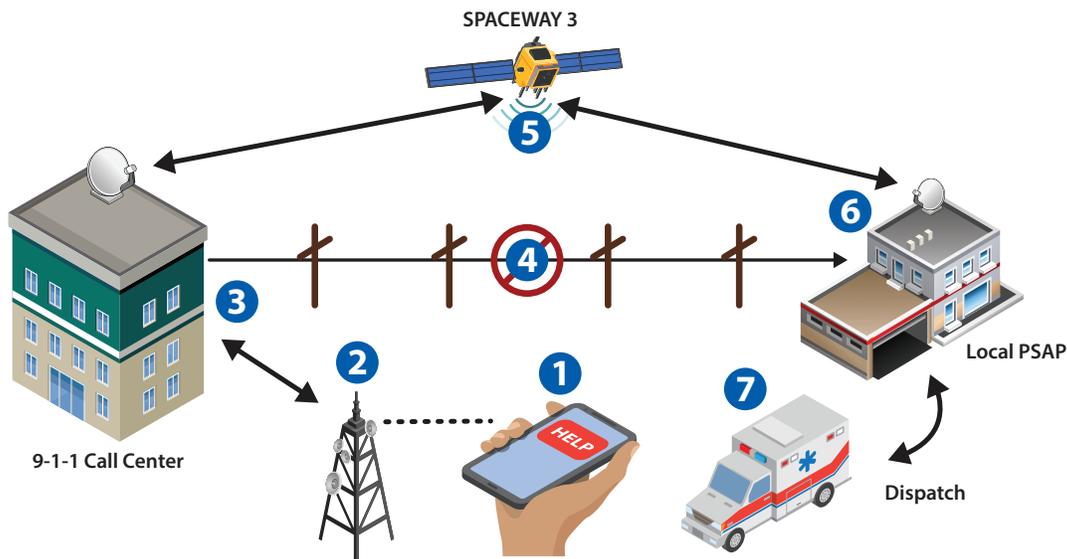
9-1-1 Network Resiliency

Disasters are bound to happen. From earthquakes to wildfires or floods, they can happen anytime and anywhere. And when they do, all terrestrial-based communications infrastructure is vulnerable, including 9-1-1 emergency response and Public Safety Answering Point (PSAP) networks. Thus, it is imperative that they be designed with high availability, diverse technology paths to ensure that citizens are still able to connect with emergency operators to reach emergency services like police, fire fighters, and EMTs.

True technology diversity calls for employing satellite broadband connectivity as a fail-safe backup to terrestrial networks—whether fiber, cable, DSL, or wireless; all are at risk when disaster strikes. By incorporating satellite into the 9-1-1 and PSAP architecture, network administrators can ensure the highest levels of resiliency to handle the escalated call volumes in the face of a major emergency situation.

Hughes SPACEWAY® 3 satellite technology features:

- On-board processing that enables direct point-to-point routing
- True path diversity with Policy Based Routing (PBR) providing automatic failover
- Secured with AES encryption and FIPS certified
- Support for redundant 9-1-1 call data centers
- Capacity on demand options for maximum cost-efficiency
- Multiple service classes to support voice, video, and data
- Automatic downlink power control to overcome rain fade



1. 9-1-1 call or text.
2. Cellular tower relays call/text to 9-1-1 Call Data Center.
3. Call Center finds closest PSAP and tries to relay call/text to PSAP via terrestrial path.
4. Terrestrial line disrupted.
5. SPACEWAY 3 automatic switching feature engaged, relays call/text to PSAP.
6. PSAP operator engages caller/texter.
7. Dispatches appropriate emergency responders.

Please visit government.hughes.com or call 1-888-373-0235 to learn more.