

## Keep 9-1-1 Up No Matter What Goes Down



When lives depend on 9-1-1 never going down, choose the partner that takes uptime to a higher level. Hughes 9-1-1 Network Resiliency Solution delivers true multipath diversity for 9-1-1 and NG9-1-1 services, providing a broadband redundancy that's above the vulnerability of terrestrial networks to disasters, natural or man-made. When callers count on you, count on Hughes for service continuity that's above the rest.

### 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, firefighters, and EMTs.

### True Multi-Path Diversity

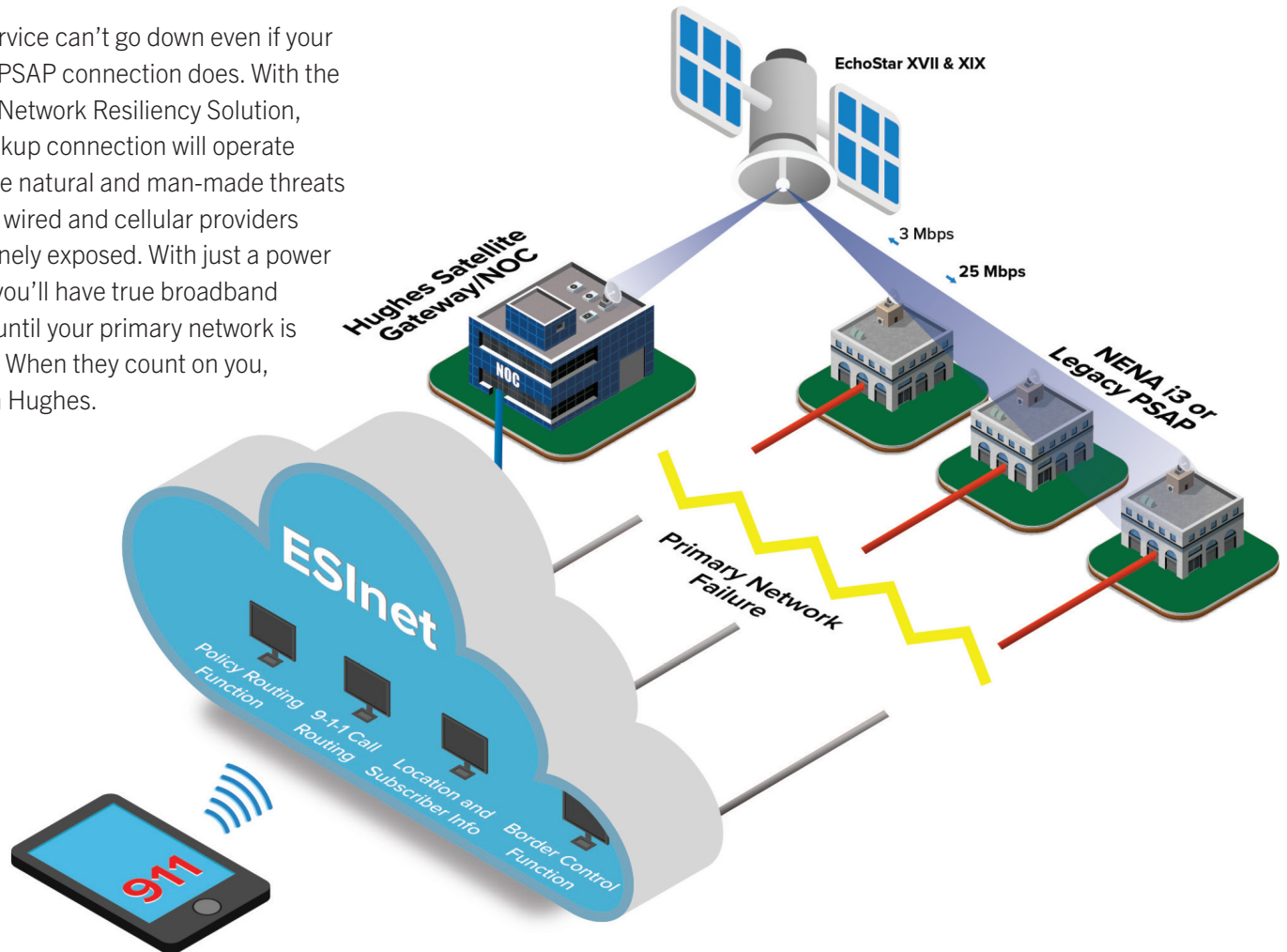
True technology diversity calls for employing satellite broadband connectivity as a fail-safe backup to terrestrial networks—whether fiber, cable, DSL, or wireless; all are at risk when disaster strikes. By incorporating satellite into the 9-1-1 and PSAP architecture, network administrators can ensure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

### Hughes JUPITER™ System Technology

- Delivers Quality of Service (QoS) for improved traffic management
- Offers advanced Internet Protocol (IP) routing features
- Secured with AES Encryption and FIPS-certified
- Leverages System on a Chip (SoC) with a multicore architecture
- Enables seamless backup connectivity when primary network fails
- Supports redundant 9-1-1 call data centers

## Rise Above the Risk

9-1-1 service can't go down even if your primary PSAP connection does. With the Hughes Network Resiliency Solution, your backup connection will operate above the natural and man-made threats to which wired and cellular providers are routinely exposed. With just a power source, you'll have true broadband backup until your primary network is back up. When they count on you, count on Hughes.



## Seamless Failover When It Matters Most

When a Next Generation 9-1-1 network is deployed, it is critical to address potential weaknesses in the technology ecosystem for any points of failure in advance of the roll out. Adding a path-diverse network connection to regional PSAPs is critical to ensure the highest levels of network availability and resiliency. To address the serious risk of a network outage, States are now leveraging new High Throughput Satellite (HTS) systems as secondary or tertiary backup networks. Hughes offers coast-to-coast service that delivers a minimum of 25 Mbps download speeds to keep PSAPs online in the event of an outage or disaster.

When a caller dials 9-1-1 on their cellular phone, it goes to the local cell tower, then through the terrestrial backhaul line to the ESInet where the call is routed to the appropriate PSAP. Once the call reaches ESInet, if the line between there and the PSAP is disrupted, congested or unavailable, the Hughes system will automatically take the call over the satellite to ensure the call reaches an operator. Should the caller already be connected with the operator when a disruption occurs, the switch to HTS is seamless and neither the caller nor the operator will experience any call quality degradation.

Call 888-408-7970 for more information.

**HUGHES**  
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