

# **INFORMATION TECHNOLOGY**

CUSTOMER FOCUSED • SOLUTIONS DRIVEN

## Next Generation 9-1-1

Stephen Ashurkoff, ENP

CAL NENA

November 3, 2017



**GENERAL DYNAMICS**  
Information Technology

# Next Generation 9-1-1 vs. Legacy

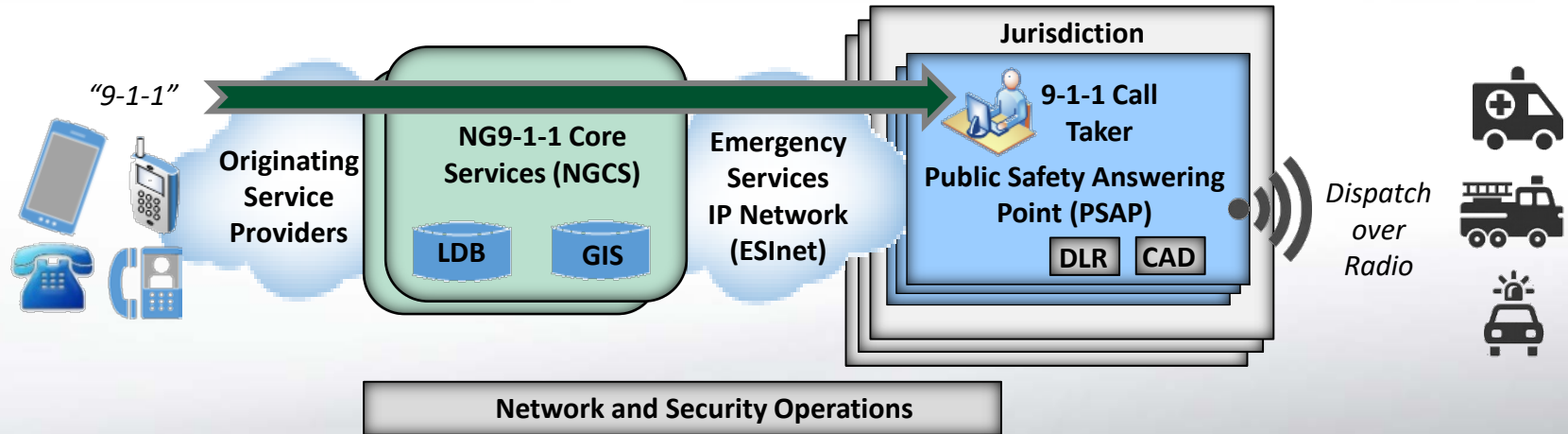
## Legacy

- Aging SR technology with limited default route options
- CAMA trunks are outdated technology, often without diversity, increasingly difficult to maintain
- Tabular field based ALI databases, not always up to date, with slow “look-up” speeds due to additional route stop and outdated connectivity
- Largely limited to voice calls with some text capability - rarely integrated

## Next Generation 9-1-1

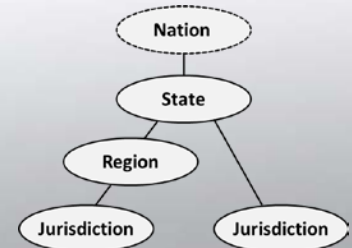
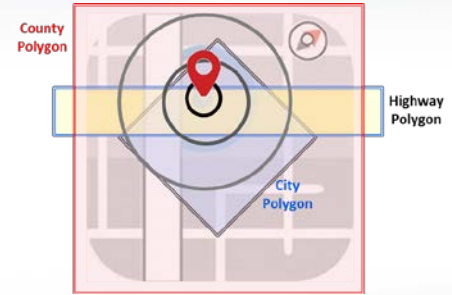
- Replaced by standards-based, Internet Protocol (IP) routing, with virtually unlimited policy-based options
- Replaced by redundant, diverse IP connections, maintained with proactive monitoring
- Geospatial routing using the most authoritative location information, directly connected to the positioning centers, and ready for innovation in location identification
- Full gamut of standards-based multi-media with location information as part of the “call”

# Next Generation 9-1-1 Architecture



# Next Generation 9-1-1 Benefits

- Reliability **99.9999999**
- Resiliency
- Interoperability
- Location Accuracy
- Policy Based Geospatial Routing
- More Options for Citizens
- Better Context for Call Takers
- Improved Collaboration
- Economies of Scale from Sharing
- Increased Value: Competitive vs. Proprietary



# THANK YOU