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**THE PROSPECT OF FEDERAL LEGISLATION FOR
NG9-1-1**

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GOAL: AVOID HISTORICAL PROBLEMS IN PUBLIC SAFETY

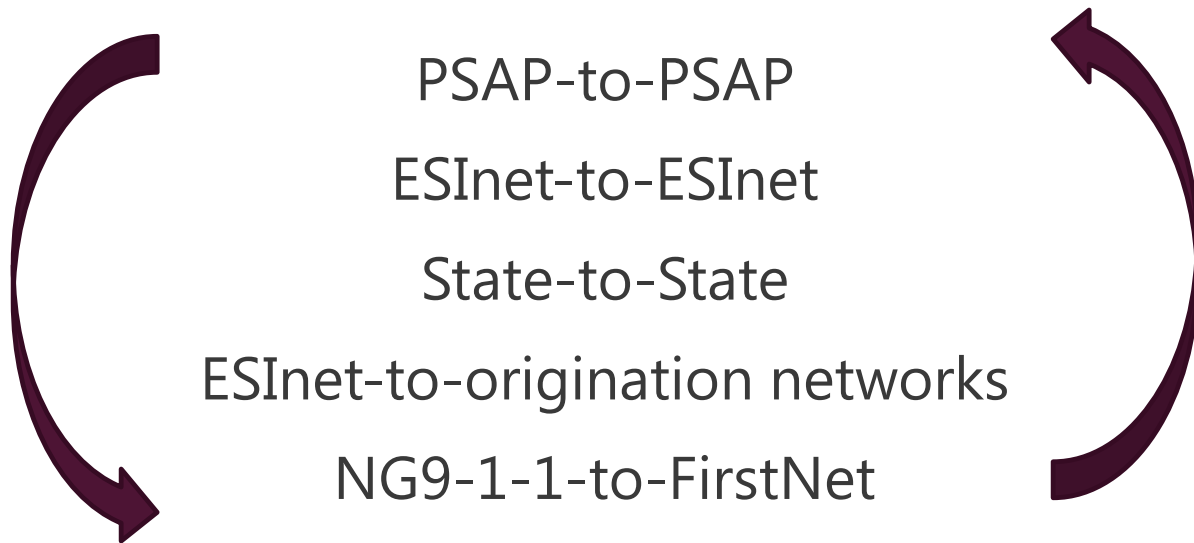
- Technology is costly, siloed, & proprietary
- Small vendor community, little bargaining power, and few options
- Interoperability is difficult and expensive to achieve, especially after-the-fact
 - Growing concern for pre-NG9-1-1 deployments
- Limited innovation and disruptive upgrades
- Disconnected from advances in consumer marketplace
 - Consumer expectations far from reality

BUILD UPON EXISTING SOLUTIONS

- Telecom networks and other industry sectors have already converted to digital, IP, broadband technology
 - Smart cities, IoT, and intelligent highways are on the same path
- What do they have in common?
 - ✓ Substantial range of companies innovating
 - ✓ Seamless interoperability and data sharing without the need for specialized interfaces
 - ✓ Consumers get excited for technology upgrades
 - ✓ World-wide economies of scale

NG9-1-1 needs the same.

ACHIEVE INTEROPERABILITY



WHAT'S NEEDED: A COMMON DEFINITION OF "NG9-1-1"

What do we gain? A definition that:

- Leads to comprehensive and uniform deployments nationwide
- Accounts for network (IP) connectivity AND the functions and equipment necessary for broadband information to be received, processed and acted upon at the PSAP – an end-to-end system
- Ensures that PSAPs modernize 9-1-1 in a manner that remains familiar to the public
- Creates a shared understanding among all stakeholders of what is needed to accomplish NG9-1-1

WHAT'S NEEDED: A COMMON DEFINITION OF "NG9-1-1"

"NG9-1-1 is a secure, nationwide, interoperable, standards-based, all-IP emergency communications infrastructure enabling end-to-end transmission of all types of data, including voice and multimedia communications from the public to an Emergency Communications Center."

WHAT'S NEEDED: THE RIGHT KIND OF STANDARDS

Widely deployed commercial standards are key to:

- Ensuring that all PSAPs have the technical capabilities for interoperability including for mutual aid
- Increasing competition
- Achieving worldwide economies of scale for the costs of equipment and services
- Enabling public safety to keep pace with advances in the commercial sector

WHAT LEGISLATION CAN ACHIEVE

- A one-time injection of federal funding is needed to upgrade legacy networks and equipment to IP-based, broadband-enabled, NG9-1-1 systems nationwide
- Congress could establish a grant program to accomplish several objectives for 9-1-1. For example, funding could be conditioned upon:
 - Establishing and sustaining interoperability
 - Leveraging widely deployed commercial standards to drive cost efficiencies
 - Establishing sustainable funding mechanisms
 - Preventing 9-1-1 fee diversion
 - Promoting information and resource sharing
 - Requiring the use of open and competitive procurement practices

QUESTIONS TO ASK IN THE MEANTIME

- Can you guarantee that our ESInet and other IP-based equipment will be seamlessly interoperable with other ESInets and equipment, including across state boundaries?
- Can you guarantee that our ESInet will be seamlessly interoperable with origination networks? With FirstNet?
- If a solution complies with a particular standard, how have you ensured that your implementation of the standard aligns with others in the industry to achieve interoperability?
- Will you guarantee your solution to be interoperable without additional upgrades and new costs to the PSAP?
- Will your CPE, CAD, RMS, GIS or mobile app product be able to seamlessly share and exchange data with other equipment, without the need for special interfaces, additional costs?

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