

ESInet Building Blocks for NG9-1-1

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Why NG9-1-1 is Important

ESInet Functional Benefits

Is the time right for ESInet?

Summary

Why NG9-1-1 is Important



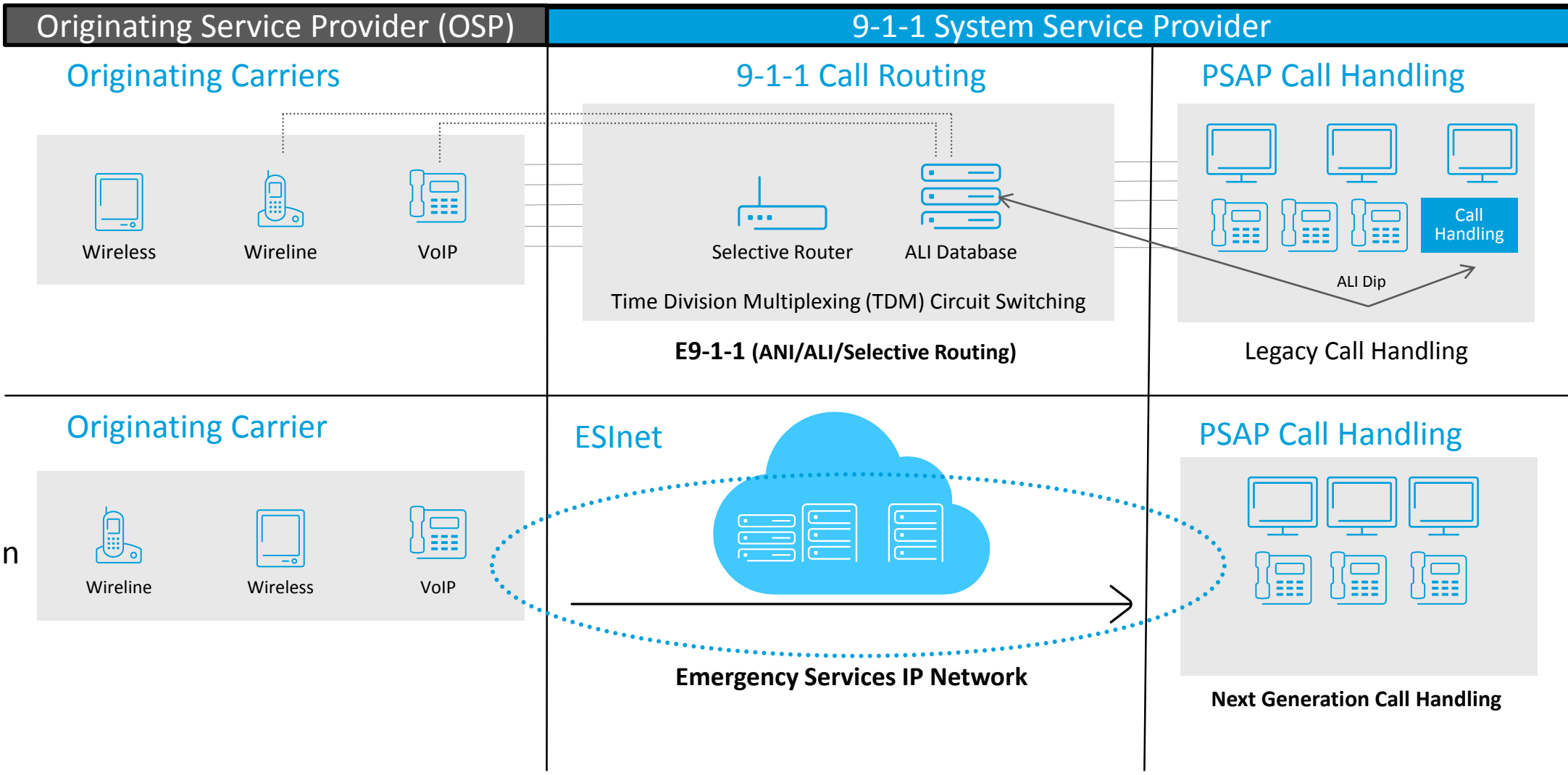
Challenges with Nation's current 9-1-1 system

- Aging Legacy 9-1-1 Communications Infrastructure
- PSAPs challenged to keep pace with technology & customer expectations
- 70% -80% of 9-1-1 calls originate from mobile devices (Source: FCC & NG911.gov)

NG9-1-1 adoption helps improve reliability & modernizes PSAP technology



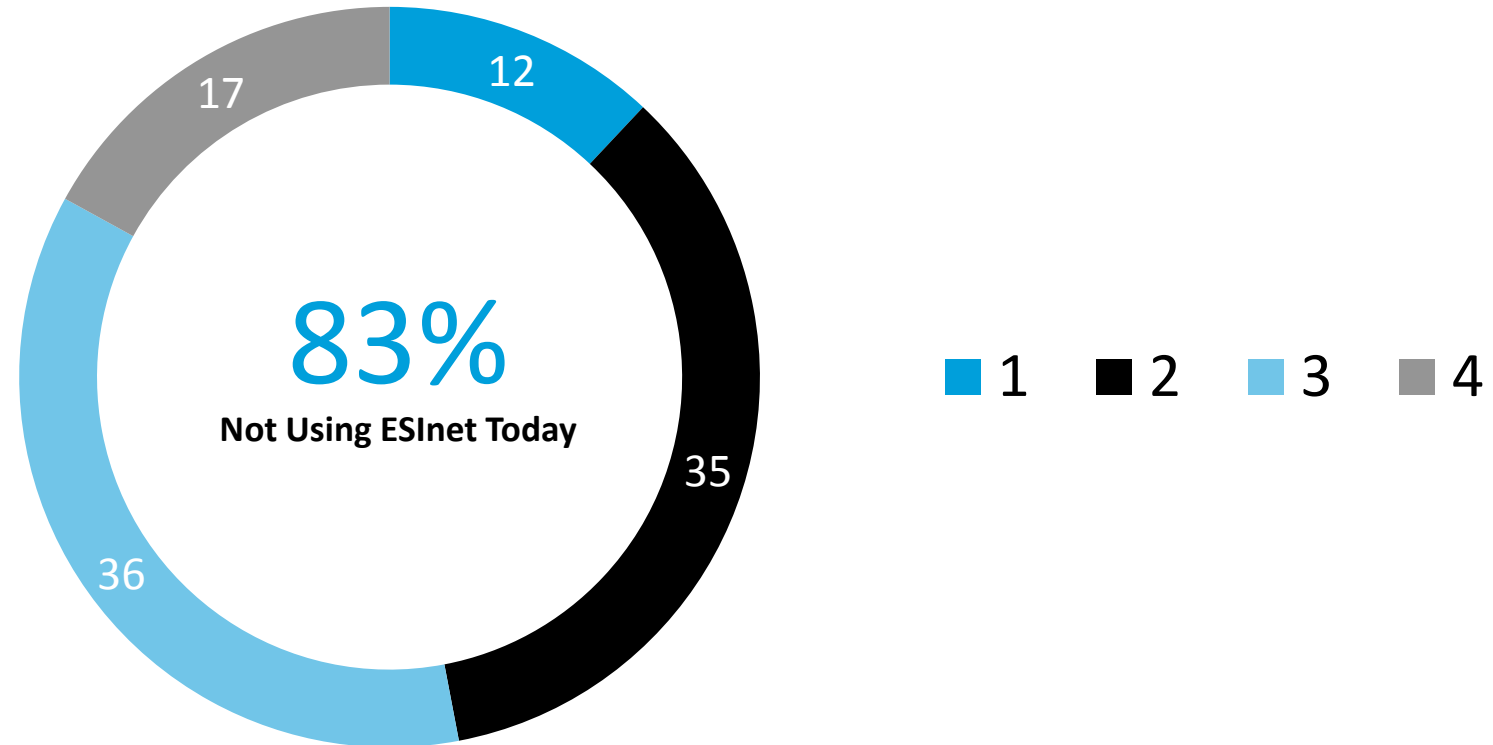
9-1-1 Ecosystem: Transition to Next Generation



Today's ESInet Landscape: Poll Results*



Where are PSAPs Today in their ESInet journey?



*Webinar poll results obtained from ESInet webinar conducted 9/2017, 110 responses



Call Management
(a.k.a. Core Services)



IP Network &
Security



Advanced Services

ESInet Functional Benefits: Call Management



Function	Benefit
TDM to IP and IP to TDM conversion	Enables migration to IP
Geo-Redundant Call Processing	Increases resiliency and survivability
IP Voice Transformation	Integrated voice & data with call transfer
Geographic Policy Routing	Establishes call treatment rules to enhance operational flexibility
Automatic Overflow and Alternate Routing	Enables operations continuity during natural or man-made disasters (e.g., TDOS)

ESInet Functional Benefits: IP Network & Security



Function	Benefit
IP Transport	Supports any-to-any connectivity e.g., ability to quickly rehome traffic at network layer
Network Redundancy and Diversity	Increases 9-1-1 resiliency and PSAP survivability
Network Security	Helps protect PSAP networks from cyber threats and malicious activity (e.g., DDOS)
Network Management	Provides status and reporting data to help PSAPs manage system performance and operations

ESInet Functional Benefits: Advanced Services*



Function	Benefit
Multimedia Communications	Expands PSAP capabilities to receive text** and photos that enhance incident awareness
Network to Network Interoperability	Permits sharing of information with other agencies
Cloud Services	Enables access to cloud-based public safety apps and services to help improve operations
Internet of Things (IoT) Connectivity	Allows emergency services integration to support connected devices e.g., telematics

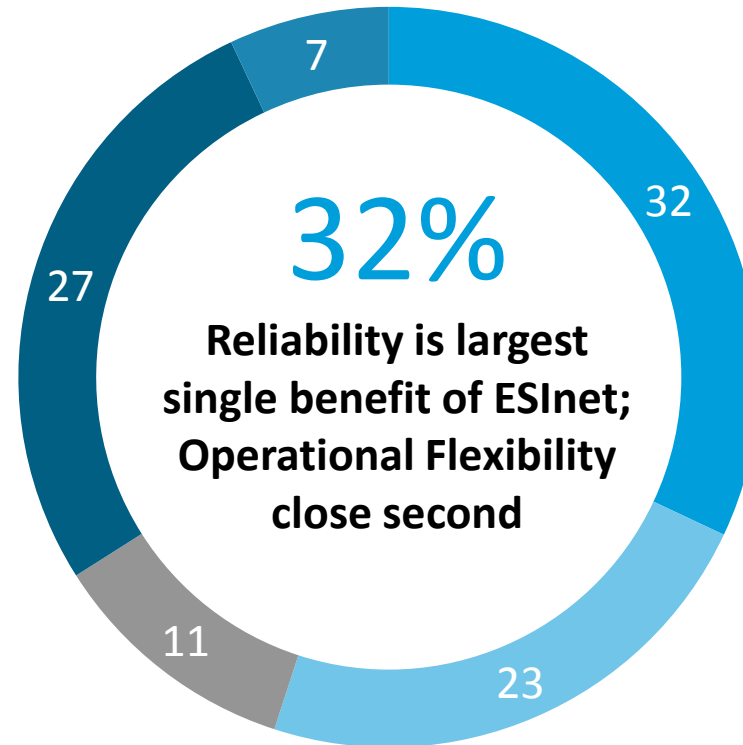
*Certain functionality will be supported in the future

**In locations where text to 9-1-1 is supported

ESInet Functional Benefits: Poll Results*

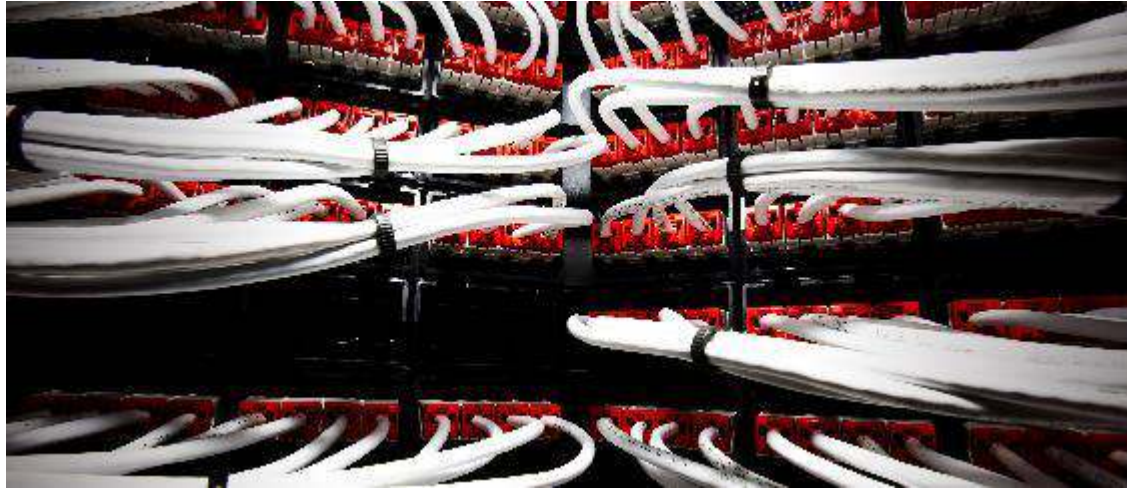


What is the largest single benefit to your agency of migrating to an ESInet?



*Webinar poll results obtained from ESInet webinar conducted 9/2017, 110 responses

Is the Time Right for ESInet? – Mounting Pressures



TDM Sunset

Legacy TDM connections migrating to IP
ESInet supports the transition
Benefits of deploying ESInet before TDM
Sunset
Better use of IP CPE investment



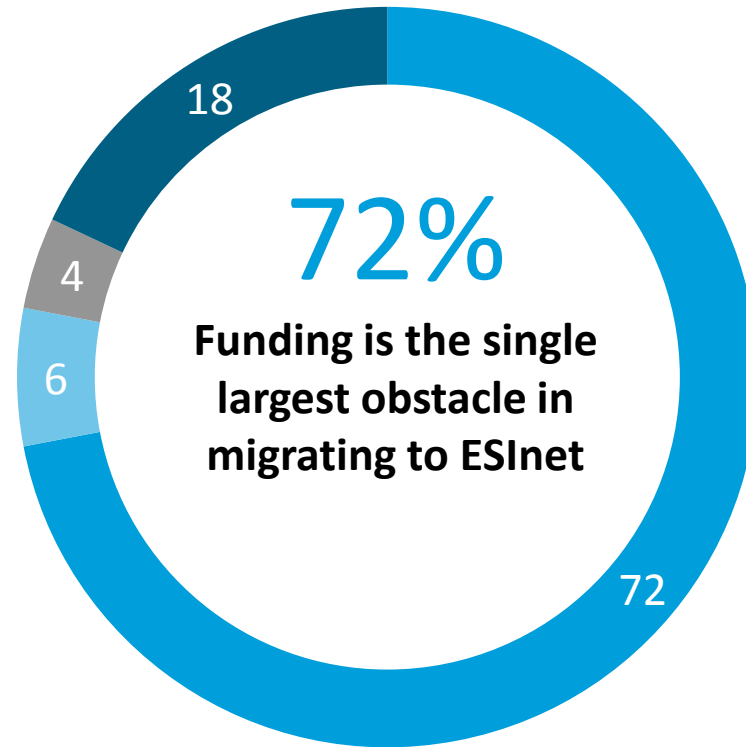
Increased Threats

Natural Disasters
Active Shooters
Extremists
Telephony Denial of Service (TDOS)

Is the Time Right for ESInet? - Poll Results*



What are the largest obstacles in migrating to an ESInet?

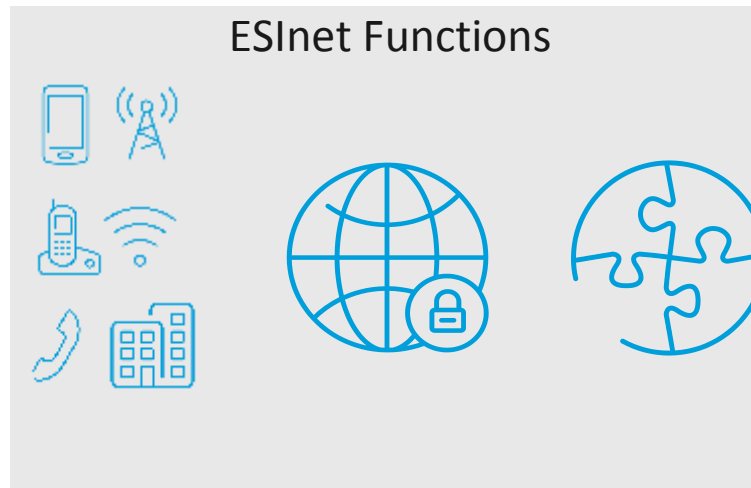


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Why NG9-1-1 is important

- Increases 9-1-1 reliability
- Enables public safety to meet demands of today's mobile society



ESInet @ Center of NG9-1-1

- ✓ Call Management
- ✓ IP Network & Security
- ✓ Advanced Services



Is the Time Right for ESInet?

- PSAPs Face Mounting Pressures
- Need to Clear Funding Hurdles

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YOUR
WORLD™

