NG9-1-1 Primer & Issues

National Conference of State Legislators Fall Forum

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NENA
THE
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ASSOCIATION

About NENA

- Primary standards development organization for 9-1-1 systems and service processes.

- 7000+ public safety and 9-1-1 industry members.

- The only professional organization solely focused on 9-1-1 policy, technology, operations, and education issues.

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Video Courtesy Mobile Future

How We Communicate

- By 2014, most internet traffic will be mobile.

- Voice communications account for only 1/3 of mobile usage: 2/3 are apps, text, & video.

- Approximately 32% of adults and 36% of children live in wireless-only households.

How We Communicate

- More than 8 trillion texts were sent last year.

- Teens text ~5,500 times *per month.*

- 35 million Americans who are deaf or hard of hearing rely on texting.

- IP-based messaging services such as iMessage or BBM are beginning to displace SMS.

What's Driving NG9-1-1?

- The need to "mainstream" 9-1-1 technology.

- Needed improvements in survivability.

- The critical need to improve interoperability and information sharing.

- A desire to increase competition and innovation in public safety technology.

Built-In Interoperability

- NG 9-1-1 is:

  - An open standards-based platform

  - Using modern, flat IP architecture

  - With robust security and resilience features

  - Based on Commercial Off The Shelf (COTS) technology

  - Designed to be originating-service agnostic.

Designed-In Capabilities

- Text/IM to 9-1-1

- Files to 9-1-1 , such as photos or video clips

- Streaming video

- Telematics and sensor data

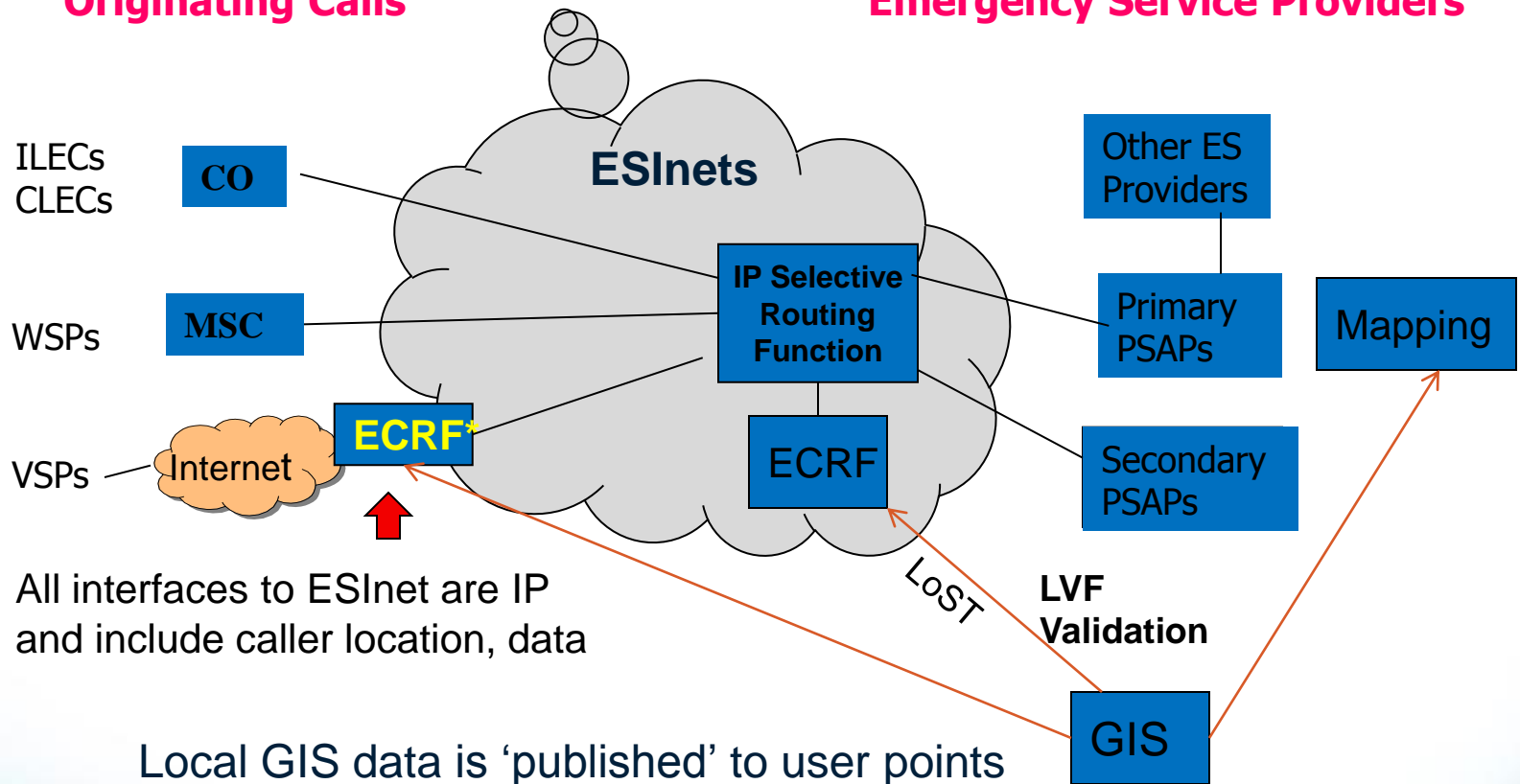- Nomadic and/or mobile call taker workstations

NG9-1-1 Responder Benefits

- Allows seamless flow of data from consumer to call-taker to dispatcher to responder.

- Leverages existing national standards for interfaces and data structures.

- Provides an adaptable platform to meet future responder needs.

Long term NG9-1-1 Components
(simplified)

Originating Calls

Emergency Service Providers

ILECs
CLECs

CO

WSPs

MSC

ESInets

Other ES Providers

IP Selective Routing Function

Primary PSAPs

Mapping

VSPs

Internet

ECRF*

ECRF

Secondary PSAPs

All interfaces to ESInet are IP and include caller location, data

LoST

LVF Validation

GIS

Local GIS data is 'published' to user points

***Emergency Calling Routing Function** is national level from Internet*

NENA Policy Handbook

- **State-Level 9-1-1 Leadership and Coordination**

- **Funding the NG9-1-1 System**

- **Addressing Transitional Regulation/Legislation/Tariff Modifications to Enable Next Generation 9-1-1 Deployment**

- **Establishing State-Wide Emergency Services IP Networks (ESInets)**

- **Confidentiality, Disclosure and Retention of 9-1-1 Call and Other Emergency Information**

- **Next Generation 9-1-1 Liability Issues**

- **Develop a Strategy and Implement Recommendations**

Recent Legislation

- Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. 112-96 §6206(b)(2) & (b)(2)(C):

"…[FirstNet] shall— *** promote integration of the network with public safety answering points or their equivalent…."

Recent Legislation

- M.D. Stat. 2012 ch. 425

- Adopts definition of NG9-1-1 that tracks the language in the MCTRJCA.

- Authorizes the use of 9-1-1 fees for NG9-1-1 deployment planning.

Recent Legislation

- Wisconsin Legislative Council Study

- "Deep Dive" on funding, training, NG9-1-1 transition, etc.

- Mass of documents and testimony available:

  http://legis.wisconsin.gov/lc/committees/study/2012/911/index.html

To Learn More

- NENA's i3 Standard for NG9-1-1 is available online at: www.nena.org/?page=Standards.

- Call NENA! We're available to assist state lawmakers, regulators, and other policymakers.

- 202.466.4911

Thank You!

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NENA: The 9-1-1 Association

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