

The “State of 911” Webinar Series

National 911 Program
May 8, 2013
12:00 PM

911.gov

- The National 911 Program designed this webinar series to provide a unique combination of useful tools, information about Federal and State participation in the NG911 process, and real experiences from early adopters about the NG911 transition process underway in regions around the country
- Webinars will be held bimonthly and consist of presentations from a Federal-level 911 stakeholder and state-level 911 stakeholder, each followed by a 10 minute question and answer period
- For more information on future events, past webinar recordings and presentations, and to learn more about the National 911 Program, please visit www.911.gov

"State of 911" Webinar Series

- 12:00 – 12:20 PM
 - Assistant Chief Charles Dowd, NYPD & FirstNet Board
 - FirstNet Update for 911 Stakeholders
- 12:20 – 12:30 PM
 - Q&A
- 12:30 – 12:50 PM
 - Patrick Lustig, Director, Jackson County 911 &
 - Kenneth Smith, 911 Coordinator, Williamson County 911
 - Counties of Southern Illinois (CSI) Next Generation 911 (NG911) project
- 12:50 – 1:00 PM
 - Q&A

Agenda



FIRSTNET STORY

National 911 Webinar




May 9, 2013

Chuck Dowd, Assistant Deputy Chief, New York City Police Department


FirstNet Board Member

Public Safety Needs Improved Technology

Joint Advisory Committee on
Communications Capabilities of
Emergency Medical and Public
Health Care Facilities




Report to Congress
February 4, 2008




**Public Safety Statement of Requirements
for Communications & Interoperability**

The SAFECOM Program
Department of Homeland Security

Volume I, Version 1.2
October 2006



Qualitative



Minutes Matter



Public Safety Needs FirstNet



FirstNet™

**CAPABILITIES AND
COST SAVINGS**

**IMPROVED
COMMUNICATION
TECHNOLOGY**

**MISSION-CRITICAL
INFORMATION**

**E911 and NG911
INTEGRATION**

**IMPROVED
COLLABORATION**

**FORCE-MULTIPLIER
EFFECTIVENESS**



Sharing 911 Information via FirstNet

- Access to Domestic Violence History
- Video and photos
- 911 Call Audio



FirstNet Evolution

- 2006 – Public Safety Broadband Network Concept
- 2007 – Public/Private Concept
 - FCC
 - Public Safety Spectrum Trust
- 2008 – Failed Auction
- 2009 – Public Safety Community Organizes
 - Public Safety Alliance
- 2012 –
 - Middle Class Tax Relief and Job Creation Act of 2012
 - FirstNet Public Safety Broadband Network

FirstNet Purpose



Provide emergency responders with the first nationwide, high-speed, broadband network dedicated to public safety

“FirstNet will be a force multiplier, enabling collaboration to help save more lives, protect property and solve crimes faster.”

Jeffrey D. Johnson, Chief (Ret.)
Chief Executive Officer
Western Fire Chiefs Association
FirstNet Board Member



FirstNet Assets

- Congressional mandate to establish a nationwide public safety network
- 2x10 MHz of nationwide spectrum (700 MHz, Band 14)
- \$2B of current funding; potential for \$5B additional funding
- An experienced Board motivated to bring FirstNet into service
- Substantial industry collaboration around user requirements, interoperability and technology



Public Safety Input To Date: 1,300 Req's



NLST



NPSTC Requirements	# of Req's
User Services	312
Network Services	209
Transport Requirements	154
System Design	66
User Equipment	60
Local Operations Support	157
Migration and Evolution	60
Governance	10
Policies and Procedures	94

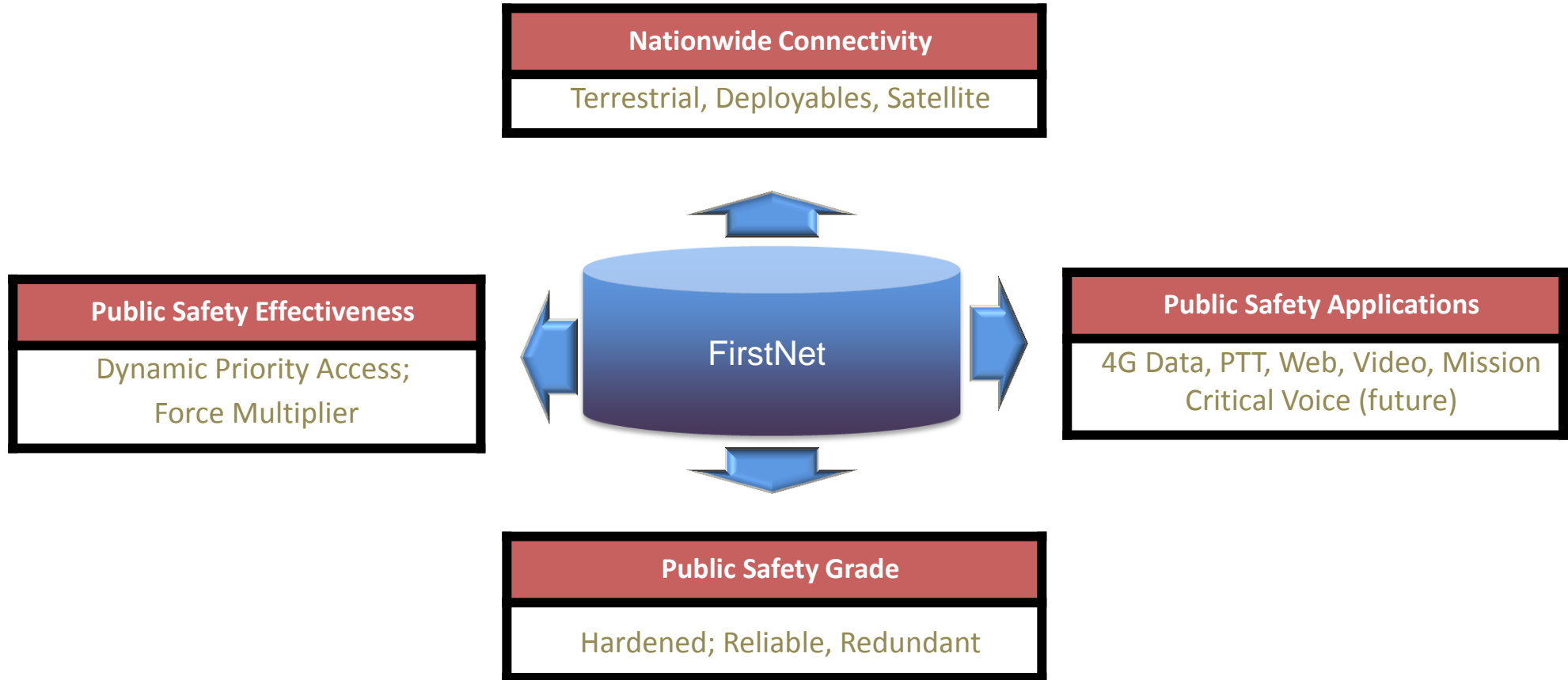
FCC Minimum Interoperability Specifications	# of Req's
Requirements (Must)	46
Considerations (Should)	55
Interfaces (Architectural)	11
Recommended Interfaces Requirements	9

FirstNet will:

- Build on the foundation of early work done by public safety groups:
- Seek vendors who will meet or exceed these requirements
- Broaden the requirements to increase flexibility and decrease costs

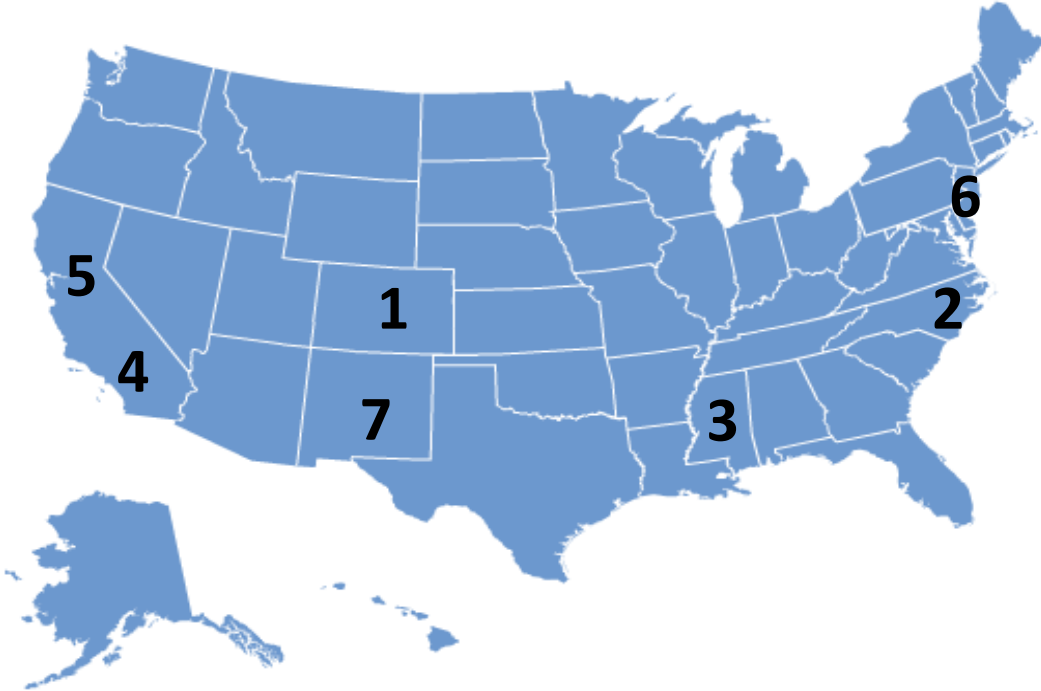


A Dedicated Public Safety Network



Early Builders Will Pave the Way

BTOP Grantees	BTOP Award
1. Adams County, CO	\$ 12,137,422
2. Charlotte, NC	\$ 16,702,490
3. Mississippi	\$ 70,055,000
4. LA-RICS (Los Angeles)	\$154,640,000
5. Bay-RICS (San Francisco)	\$ 50,593,551
6. New Jersey	\$ 39,638,152
7. New Mexico	\$ 38,699,997



FirstNet Will Learn from Early Builders

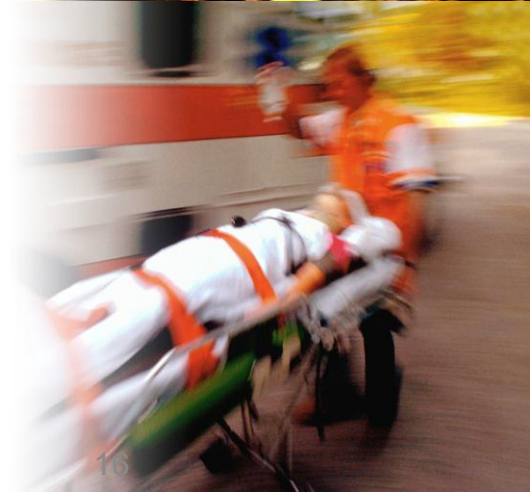
- ✓ Early Builders represent a substantial opportunity to demonstrate critical FirstNet functionality – starting in 2013.
- ✓ The FirstNet Board is negotiating a Spectrum Manager Lease Agreement (SMLA) with each of the seven BTOP grantees and recently authorized negotiations with Texas for the Harris County Project.
- ✓ FirstNet will work collaboratively with the Early Builders on “key learning areas” and share information with other projects, FirstNet and the public safety community.

State Consultation Process Begins in May

Date	States, Territories , Tribes and Local entities covered	Location
May 15-16	Delaware, District of Columbia, Kentucky, Maryland, Pennsylvania, Puerto Rico, U.S. Virgin Islands, Virginia, West Virginia	Washington, DC area
May 21-22	Colorado, Kansas, Montana, Nebraska, New Mexico, North Dakota, South Dakota, Utah, Wyoming	Denver area
May 29-30	Alaska, American Samoa, Arizona, California, Guam, Hawaii, Idaho, Nevada, North Mariana Islands, Oregon, Washington	San Francisco area
June 12-13	Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, Wisconsin	St Louis area
June 19-20	Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Vermont	Boston area
June 26-27	Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee,	Memphis area

FirstNet exists to serve public safety.

Creating FirstNet will require an unprecedented level of public-private partnership, collaboration and shared commitment to the well-being of all Americans.



Help Us Help You

“What can public safety users do?”

- Never forget where FirstNet came from
- Be the owners as well as the users
- Identify your state point of contact
- Get involved in the process

First Responder Team

Thank you!

www.firstnet.gov

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Please dial *1 to ask a question.

Questions

911.gov

Counties of Southern Illinois Next Generation 9-1-1 Pilot Project

Presented by:

Counties of Southern Illinois, NFP

NG911, Inc.

Assure 911 LLC

Illinois Institute of Technology



ASSURE911



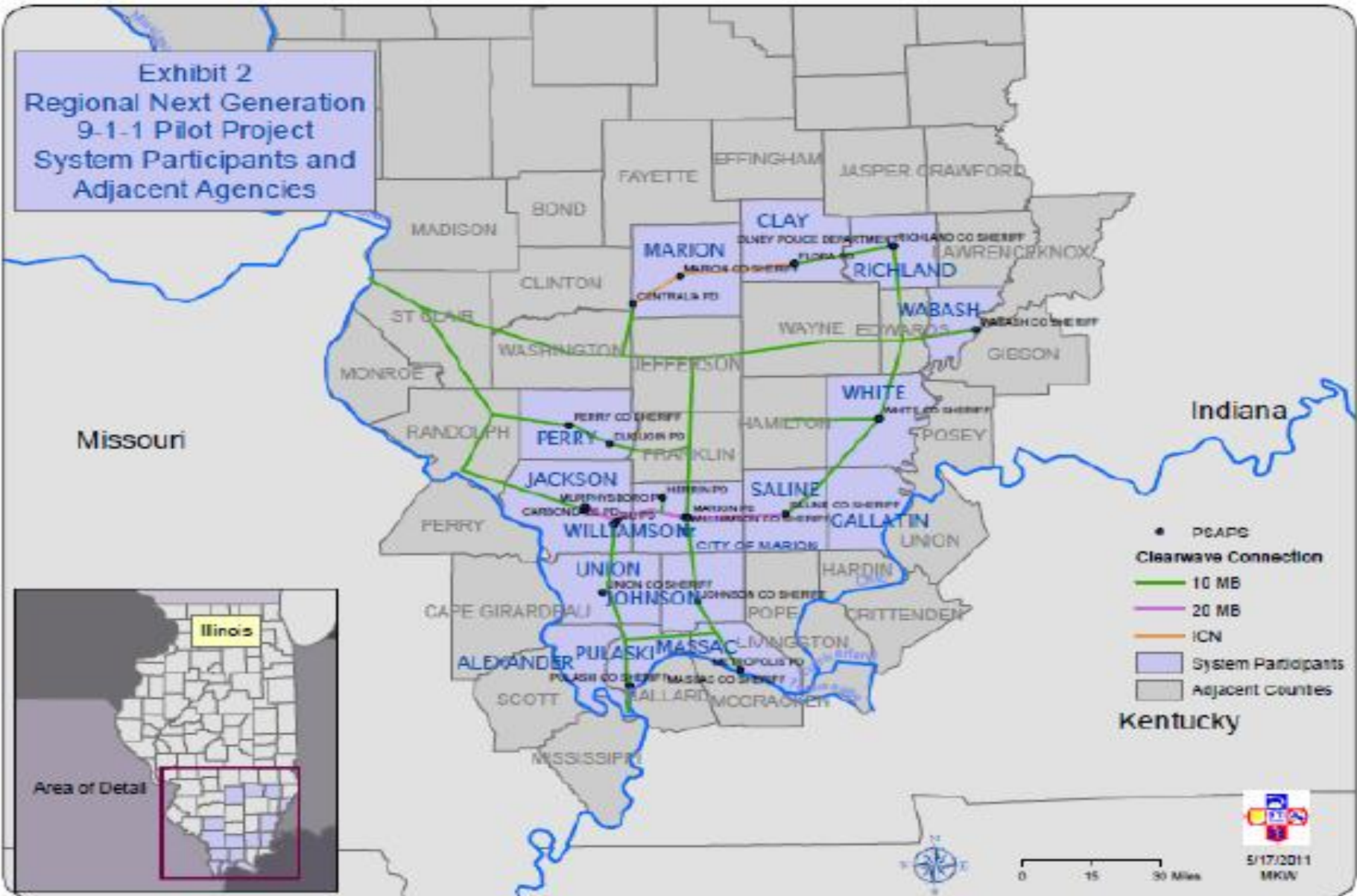
NG-911, Inc.

Next Generation 911
Systems, Consulting, Engineering

It's more than a number, it's a life!



**Exhibit 2
Regional Next Generation
9-1-1 Pilot Project
System Participants and
Adjacent Agencies**



OBSTACLES TO CSI

- No statewide 9-1-1 system
- No NG standards at the time
- No available funds
- No ESINet
- LEC issues
- GIS
- Regulations

BENEFITS TO A REGIONAL APPROACH

- Cost efficiency
- Better service to residents
- Improved chance of grants
- Recognition could lead to beneficial partnerships and support

Illinois Commerce Commission

527 East Capitol Avenue, Springfield, Illinois 62701

Consumers

Public Utility

Transportation

ICC ► Public Utility ►

9-1-1 Program

On September 25, 1975 the State of Illinois passed legislation giving oversight authority of 911 systems in the state to the Illinois Commerce Commission. From this point on the 911 programs purpose has been to administer the implementation and upgrading of 911 systems by municipalities and counties across the state.

For Ambulance, Fire, or Police

Dial **911**

General Information / Reports

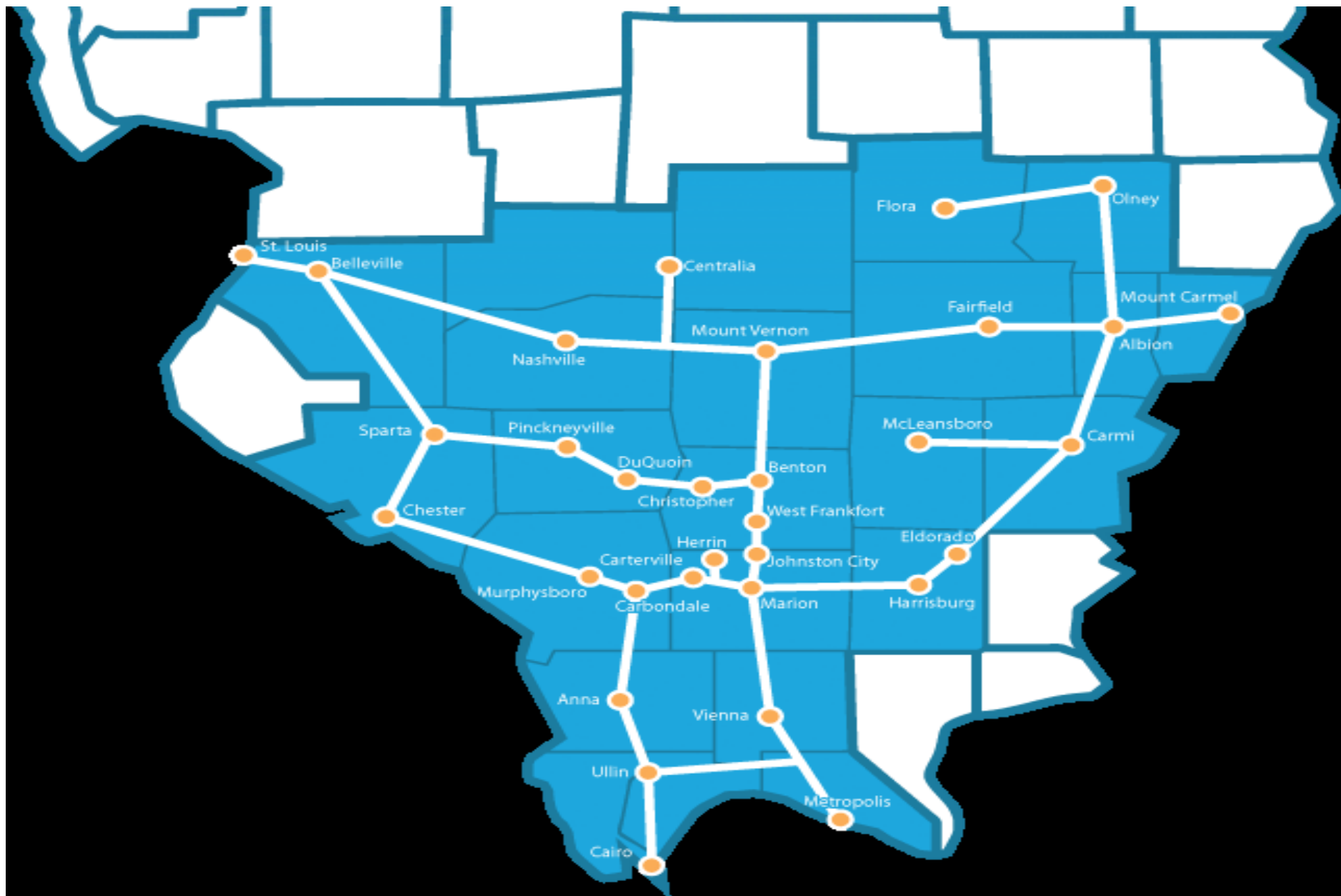
- ▶ [12-0094 Technical Workshop Agenda](#)
- ▶ [12-0094 CSI Technical Workshop PowerPoint](#)
- ▶ [Code Part 725 Rulemaking](#)
- ▶ [9-1-1 Future Technology and Financial Needs Study Book 1](#)
- ▶ [9-1-1 Future Technology and Financial Needs Study Book 2](#)
- ▶ [9-1-1 Future Technology and Financial Needs Study Book 3](#)
- ▶ [2012 9-1-1 Status Report](#) - includes the following:

Wireline 911

- ▶ [Emergency Telephone Systems Act \[50 ILCS 750/\]](#)
- ▶ [Standards of Service Applicable to 911 Emergency Systems \[83 Il. Adm. Code 725\]](#)
- ▶ [911: Application Form and Procedures](#)
- ▶ [ADA: 911 Requirements for TTYs](#)

OBSTACLES TO CSI

- No statewide 9-1-1 system
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- **Delta Communications, dba Clearwave Communications**
- Illinois Broadband Opportunities Partnership – Southern
- Delta Communications plans to deploy a high-speed fiber middle mile network across a 23-county region of southern Illinois to address the lack of adequate broadband access for community anchor institutions in many of the region’s rural, economically distressed communities. The project plans to double Delta’s network size by constructing 740 new miles of fiber in the proposed service area. The project will directly connect 232 community anchor institutions with speeds between 10 Mbps and 1 Gbps, including 111 K-12 public schools, 28 public safety entities, 23 libraries, nine community colleges, Southern Illinois University, and 60 healthcare facilities. The network plans to offer points of interconnection for last-mile providers in all 31 communities in the proposed service area.
- Total Award:
- \$31,515,253

**REQUEST FOR PROPOSAL FOR AN IP-BASED
NEXT GENERATION 9-1-1 COMMUNICATION SYSTEM**

FOR

Counties of Southern Illinois NG9-1-1 Association

To be submitted by September 21, 2010 to:

Ken Smith - Chairman
300 N. Park Ave.
Herrin, Illinois 62948
618-988-6911

PARTNERSHIPS

- Clearwave
- Illinois Institute of Technology
- Assure 9-1-1
- Southern Illinois University-Carbondale
- National Emergency Number Association
- NG 9-1-1 Inc.

Counties of Southern Illinois Next Generation 9-1-1 Pilot Project

Presented by:

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ASSURE911



NG-911, Inc.

Next Generation 911
Systems, Consulting, Engineering

It's more than a number, it's a life!



DEPARTMENT OF

GEOGRAPHY & ENVIRONMENTAL RESOURCES

GRADUATE

UNDERGRADUATE

ALUMNI

FACULTY & STAFF



DEPARTMENT OF GEOGRAPHY & ENVIRONMENTAL RESOURCES

SIUC's Department of Geography and Environmental Resources focuses on environmental management at the undergraduate and graduate levels. Faculty expertise is in water resources, land use, environmental sustainability, and geospatial techniques. Field work, use of computers, and internships are prominent components of the integrated environmental problem-solving approach in both our under-graduate and graduate programs.

HELPFUL LINKS

[What Is Geography?](#)

[Courses](#)

[Student Organizations](#)

[Internships](#)

[Universities Council on Water Resources](#)

[Department Facilities](#)

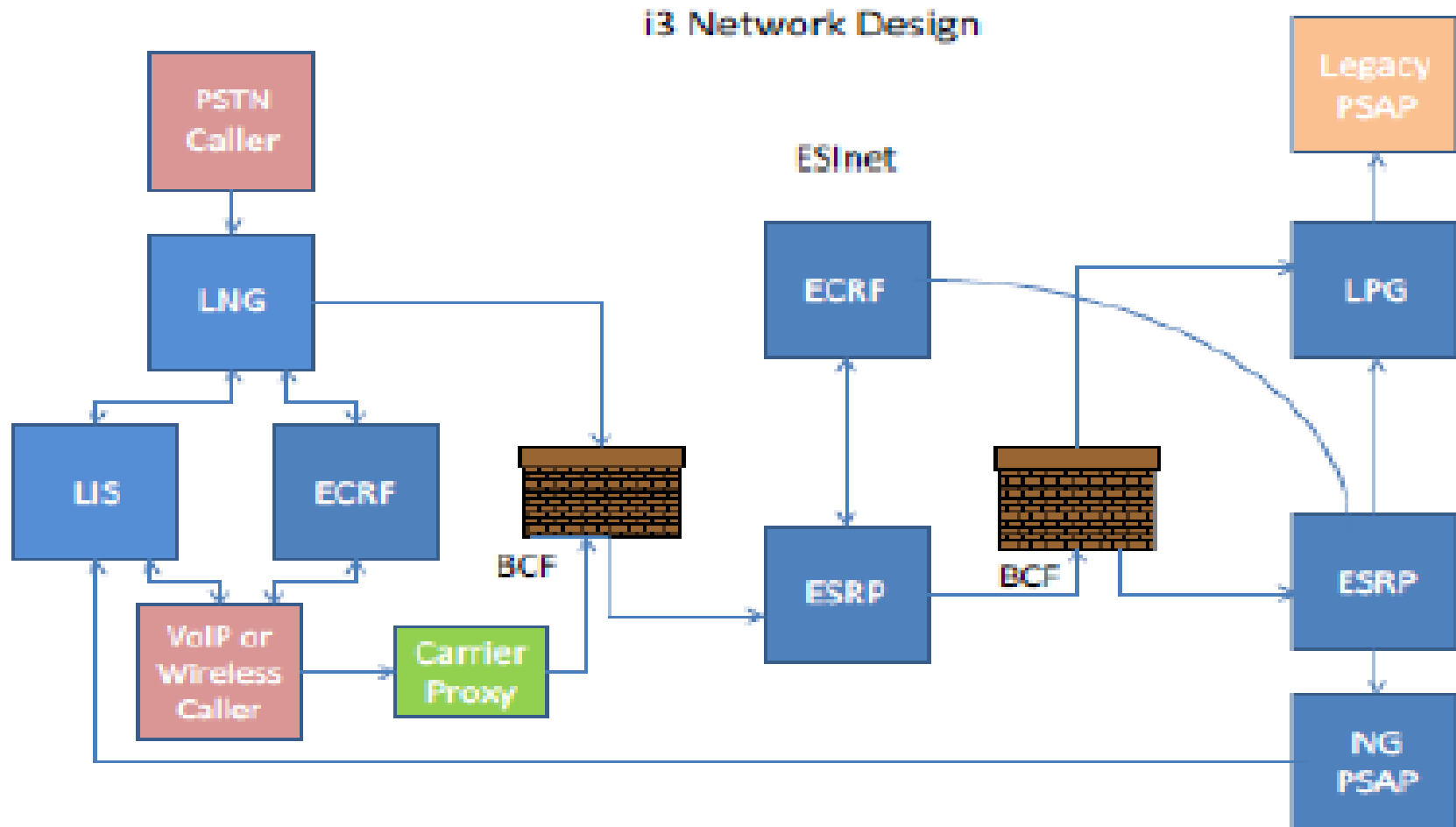
[Environmental Studies Program](#)

Data Centers

- Destination of all inbound traffic
- Exit point for routing outside of ESInet
- Buildings also house one each NG9-1-1 PSAP
- Traffic load shared between Data Centers
- Location of Next Generation 9-1-1 Functional Elements
- Implements National Emergency Number Association (NENA) published standard:
 - ”Detailed Functional and Interface Specification
for the NENA i3 Solution – Stage 3”

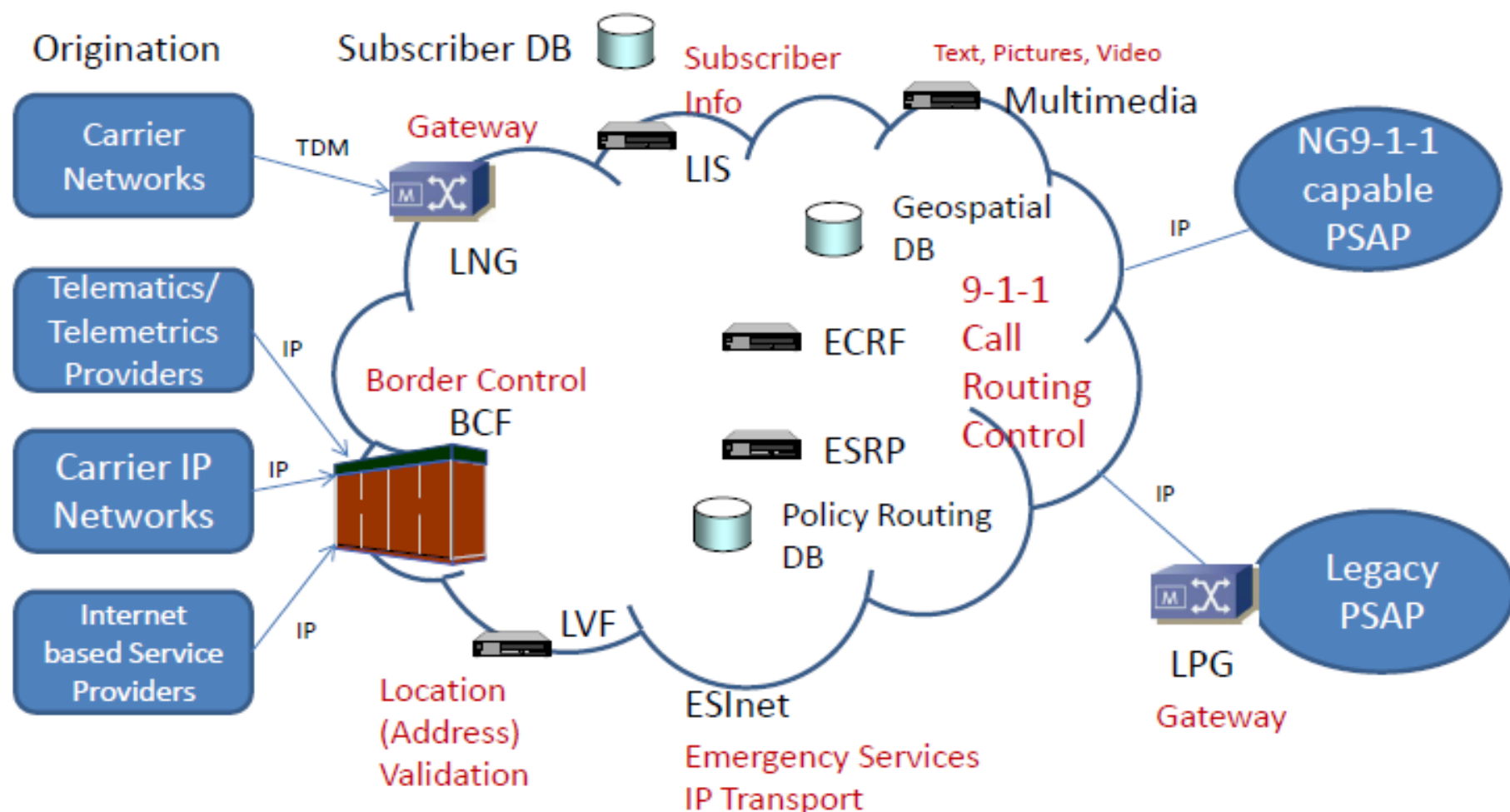
NG9-1-1 Call Flow

Call Flow Diagram 3.1



NENA NG9-1-1 – i3 Elements

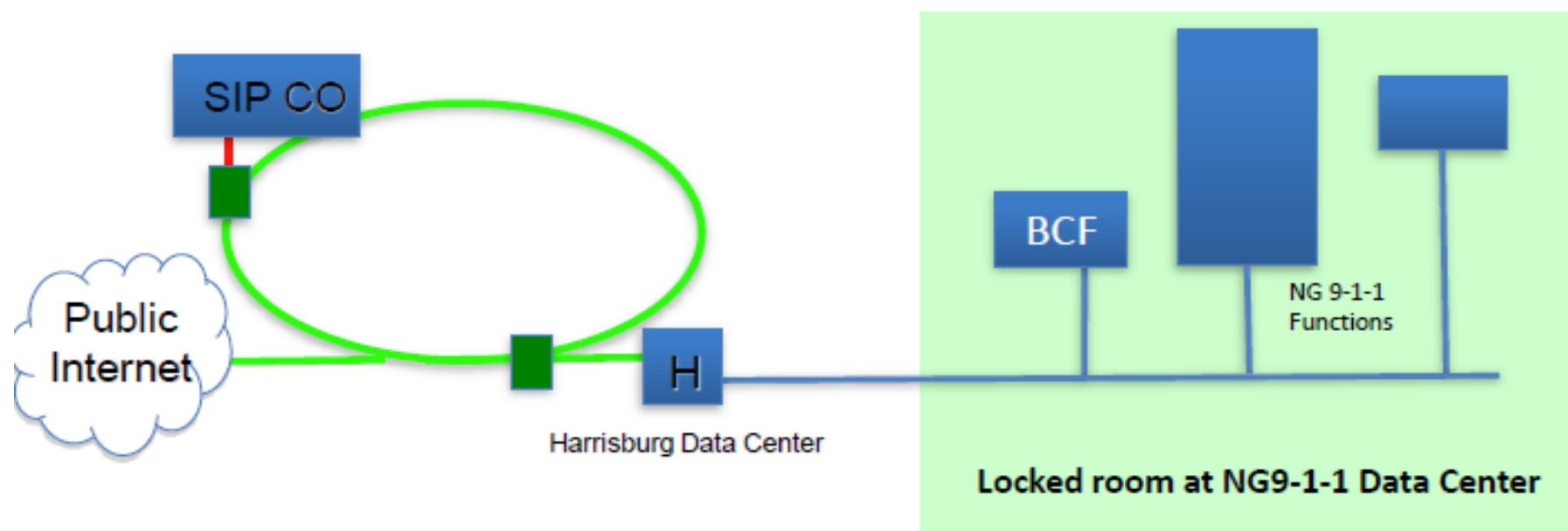
Simplified Diagram (with English subtitles!)



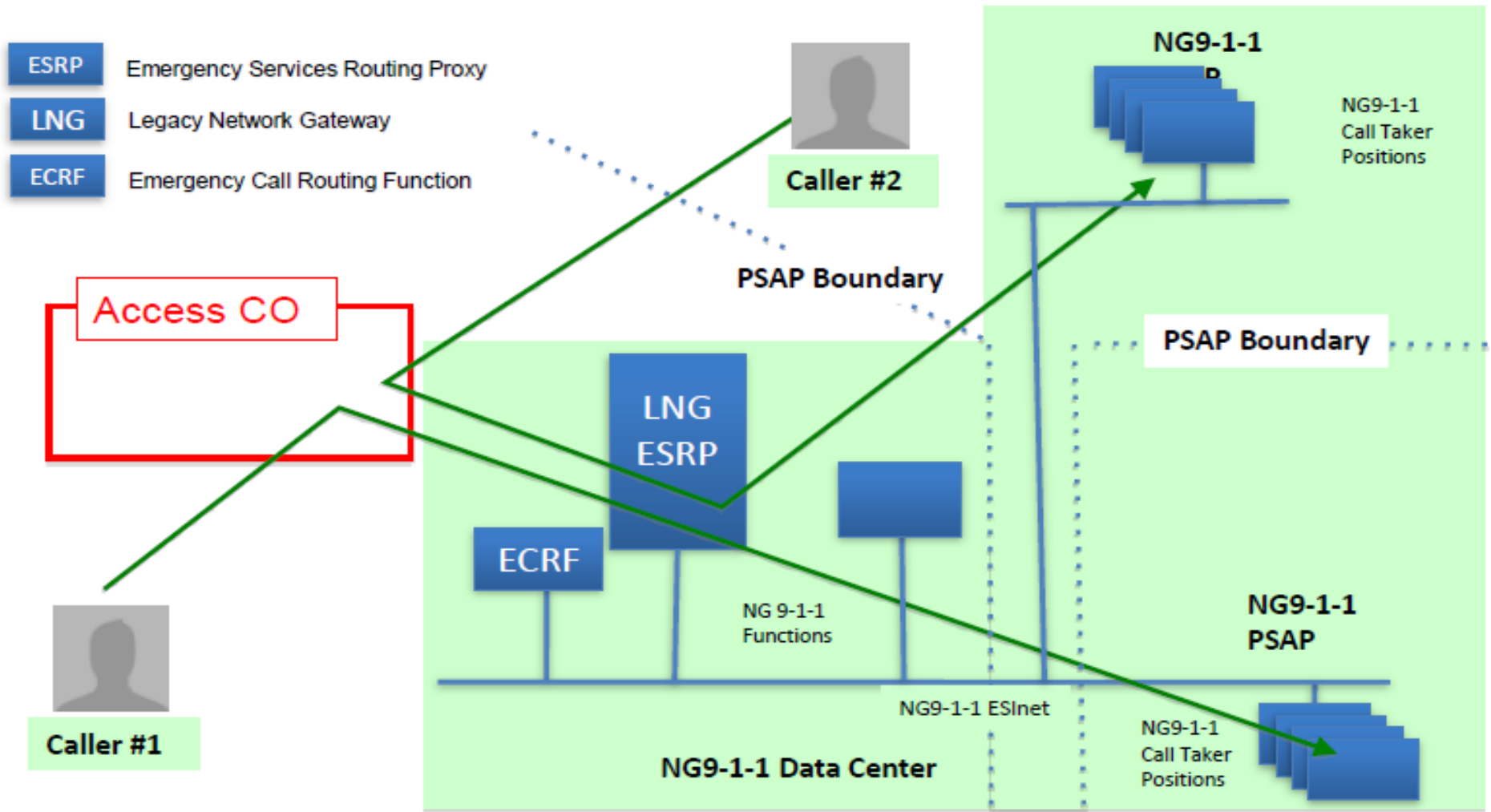
Security

Border Control Function (Continued)

- Permits access to known networks (SIP Carriers)
- Virtual Private Network (VPN) to permit access to authorized users
- Dynamically reject traffic based on device behavior
- Protection from malicious attachments, malformed messages



Cross Boundary – Data Center to NG9-1-1 PSAP



Data Base Management Plan

CSI solutions follow:

- NENA Standards
 - GIS and Geospatial Routing Database
 - Validation
 - Routing Control
 - Policy rules
 - Data Access Rules
 - System Logging
 - Detail Call records
 - Security

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Please dial *1 to ask a question.

Questions

911.gov

- Thank you to all of today's presenters and participants and we look forward to seeing you at our next "State of 911" webinar

Date	Presenters	Registration
Wednesday, July 10, 2013	<ul style="list-style-type: none"> • National Level Participant - TBD • North Central Texas Council of Governments (Presenter: Christy Williams) 	Registration will open June 10, 2013
Wednesday, September 4, 2013	TBD	Registration will open July 29, 2013

Future "State of 911" Webinars



Laurie Flaherty
National 911 Program Coordinator
202-366-2705
laurie.flaherty@dot.gov

For questions regarding future webinars, please contact
NG911wg@bah.com

Contact Us

