

**Exh. JDW-10  
Docket UT-181051  
Witness: James D. Webber**

**BEFORE THE WASHINGTON  
UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,**

**Complainant,**

**v.**

**CENTURYLINK  
COMMUNICATIONS, LLC.,**

**Respondent.**

**DOCKET UT-181051**

**EXHIBIT TO  
TESTIMONY OF**

**JAMES D. WEBBER**

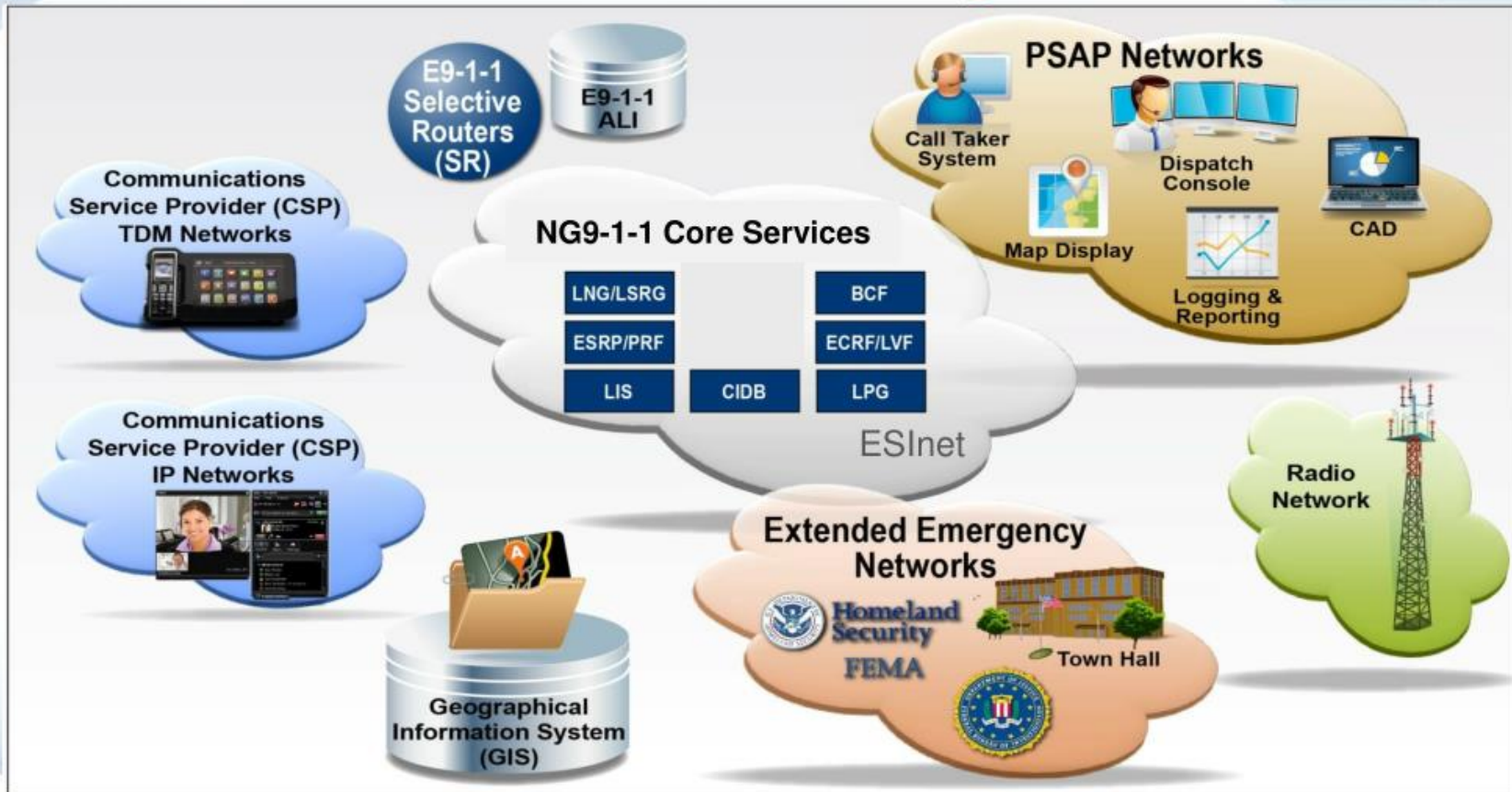
**ON BEHALF OF STAFF OF  
WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION**

*National Emergency Number Association Next Generation 911 Diagram*

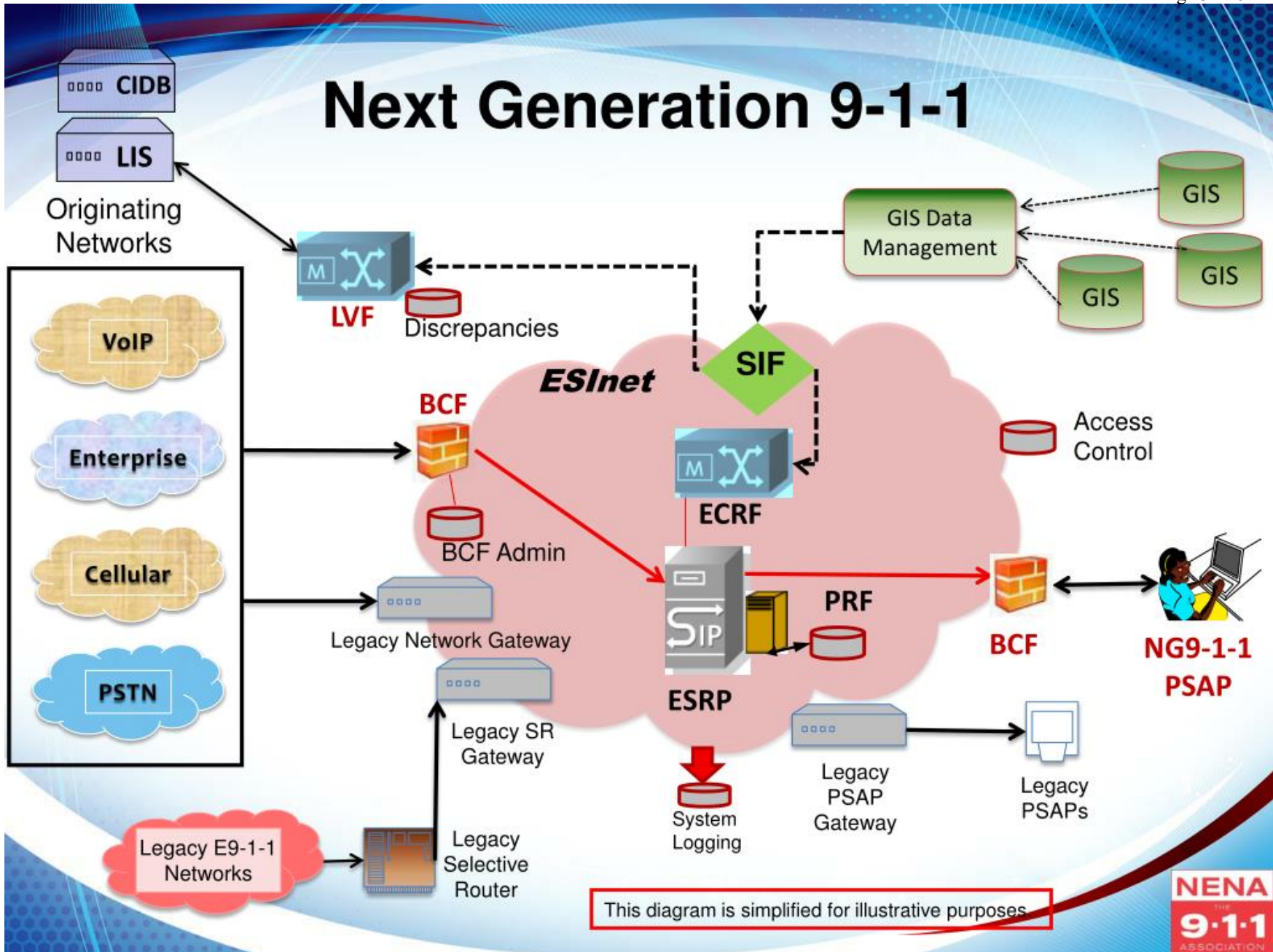
**December 15, 2021**

Understanding the System of Systems  
**NG9-1-1 CORE FUNCTIONS**

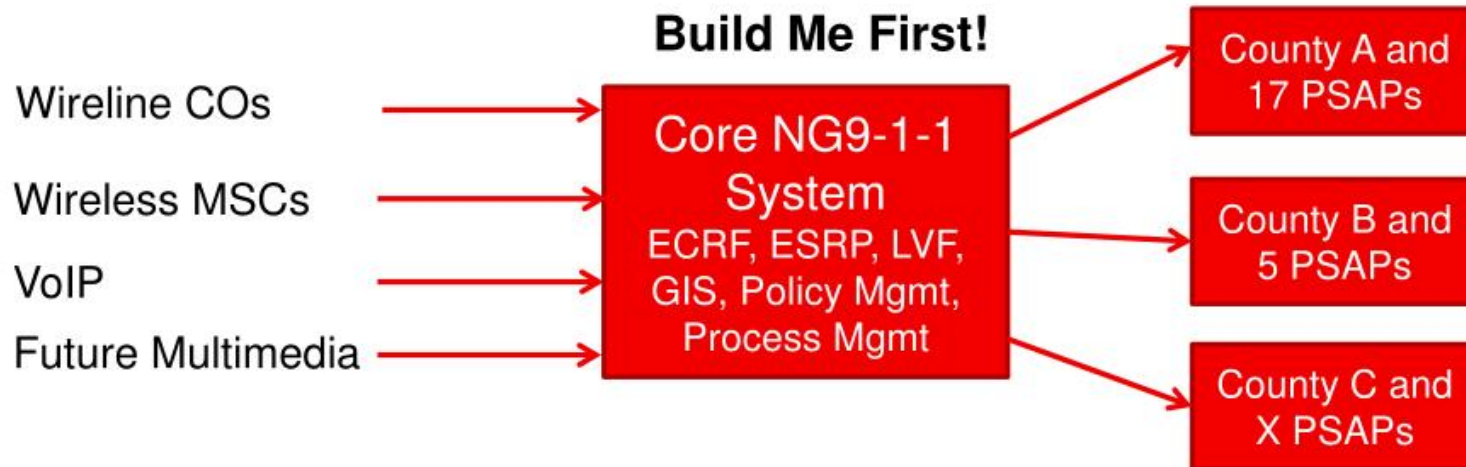
# NG9-1-1 Ecosystem



# Next Generation 9-1-1



# How NG9-1-1 Operates



**Initial Deployment:** Transitional LNGs  
**Later:** Direct IP interfaces

Could be any combination of state, regional or county PSAPs

# PSAP Deployment Options

- PSAP equipment is IP or NG9-1-1 capable before core NG9-1-1 is installed
- PSAP equipment or software upgraded when core NG9-1-1 is installed
- Multiple PSAPs deploy a hosted (shared) call handling system
- PSAPs use LPGs to interface to core NG9-1-1 system, operating temporarily as 'legacy PSAPs'
- Any combination of the above

# End-to-End IP - Timeframes

- Improved services are timeframe interdependent between carriers, other originating providers and NG9-1-1

Carriers

Implement IMS

IP interface

Carriers

Implement MMES

Multimedia ES

Public Safety

Transition to NG9-1-1

Internet Providers

IP based Multimedia ?

Soon after wide NG9-1-1 availability

Now 2014 2015 2016 2017 2018 2019 2020 →

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