WUTC DOCKET: 181051
EXHIBIT: JDW-10
ADMIT ☑ W/D ☐ REJECT ☐

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

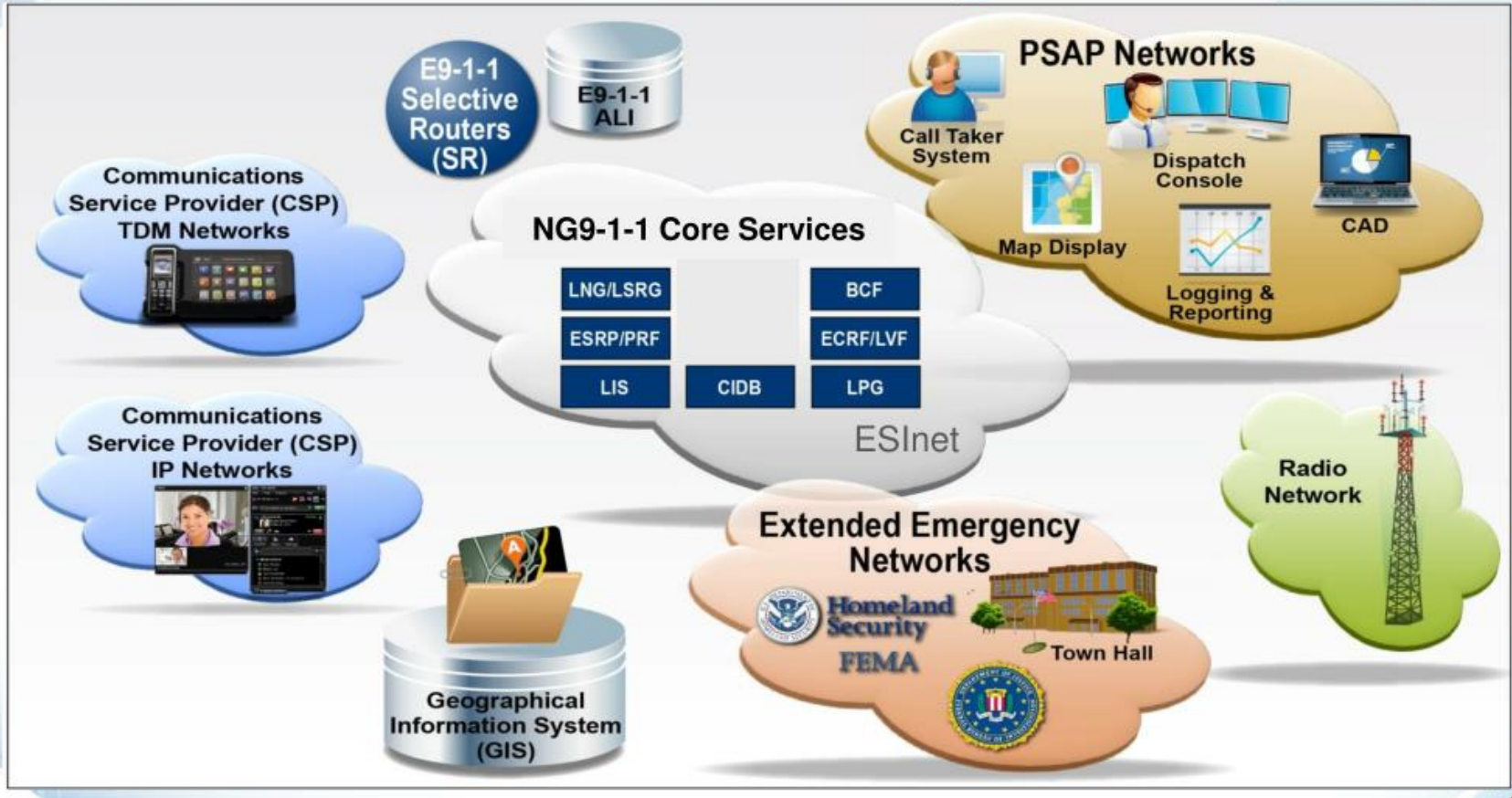
National Emergency Number Association Next Generation 911 Diagram

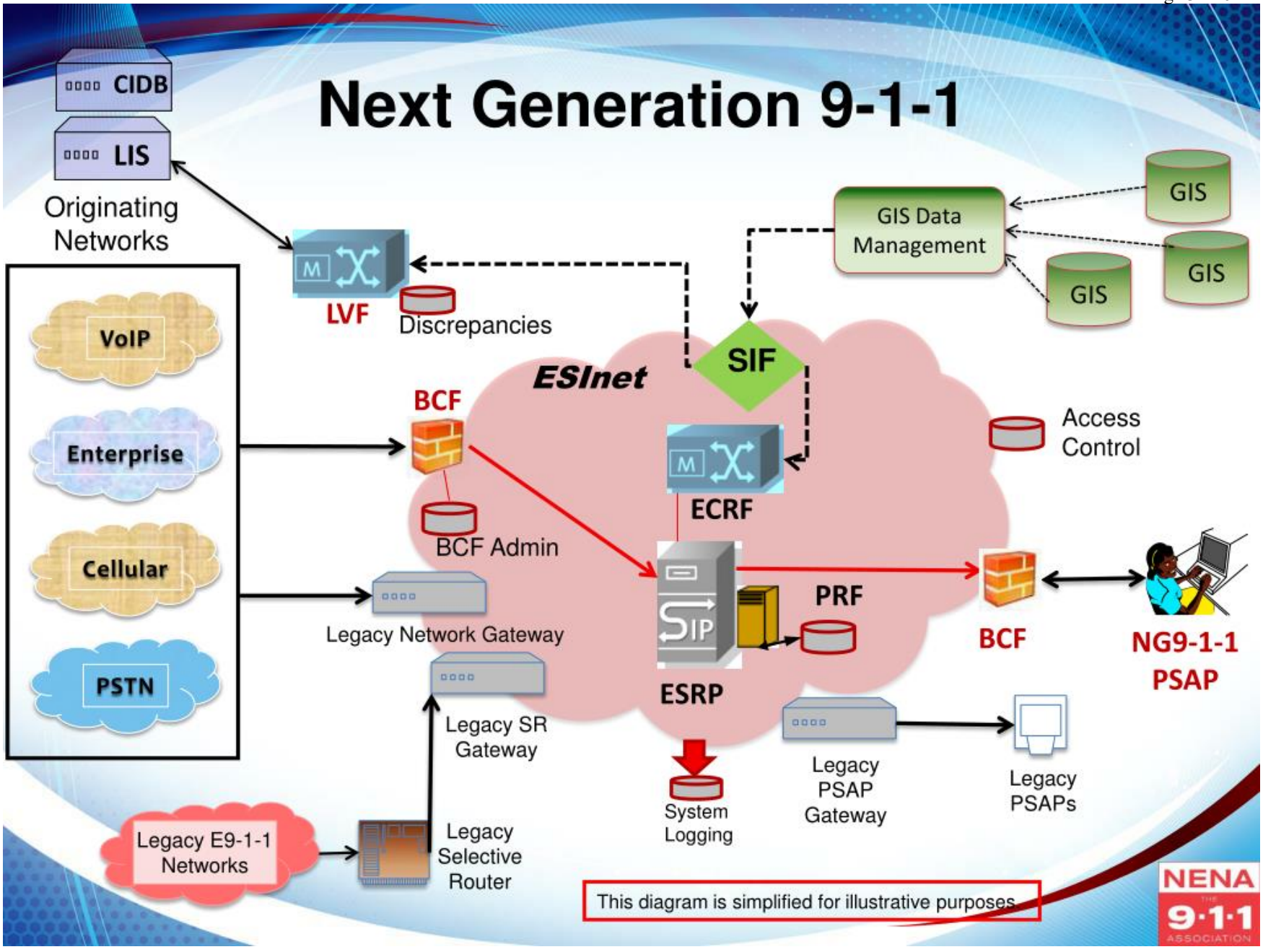
December 15, 2021

Understanding the System of Systems

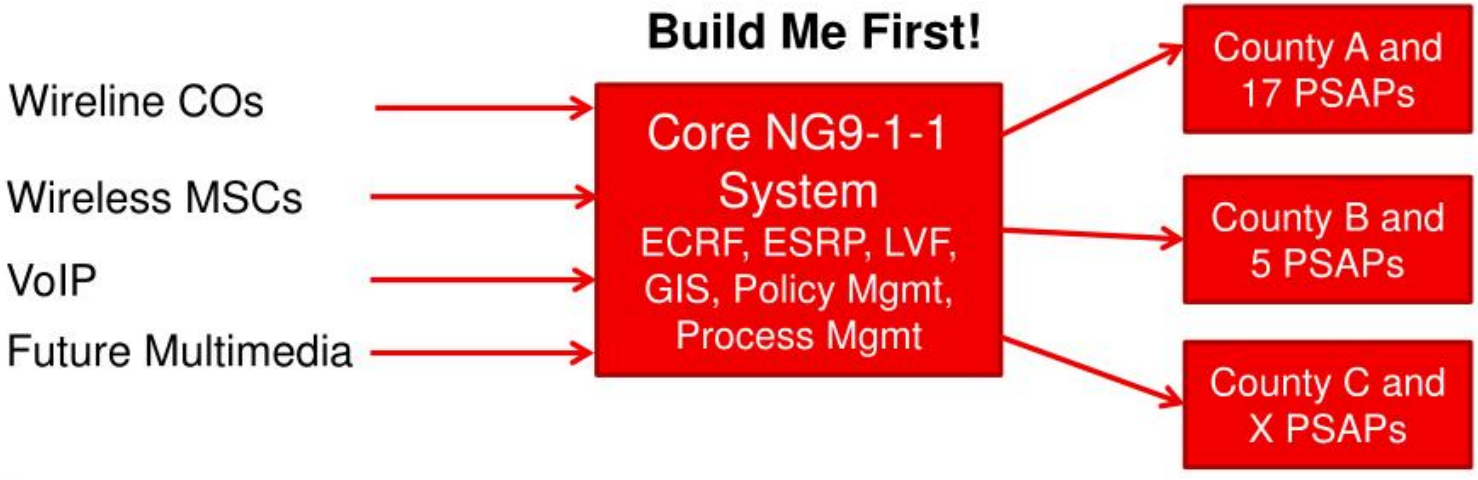
NG9-1-1 CORE FUNCTIONS

NG9-1-1 Ecosystem




Next Generation 9-1-1
CIDB
LIS
Originating Networks
VoIP
Enterprise
Cellular
PSTN
LVF
Discrepancies
ESInet
SIF
BCF
BCF Admin
ECRF
Access Control
GIS Data Management
GIS
GIS
GIS
Legacy Network Gateway
PRF
ESRP
BCF
NG9-1-1 PSAP
Legacy SR Gateway
System Logging
Legacy PSAP Gateway
Legacy PSAPs
Legacy E9-1-1 Networks
Legacy Selective Router
This diagram is simplified for illustrative purposes.
NENA THE 9-1-1 ASSOCIATION

How NG9-1-1 Operates

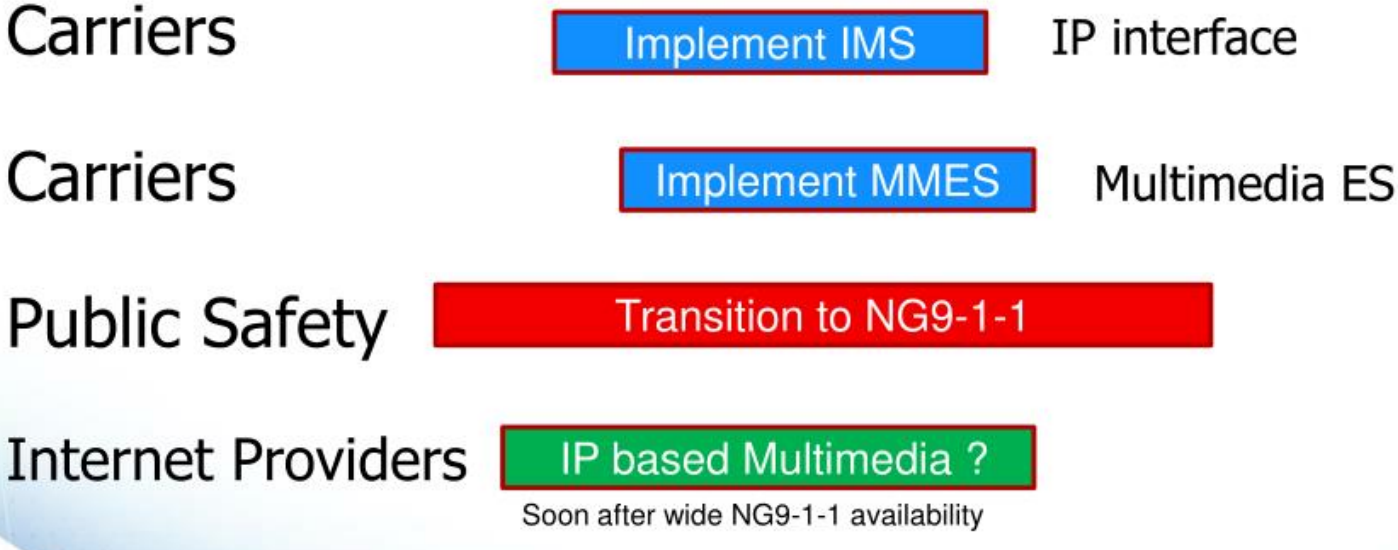


Initial Deployment: Transitional LNGs
Later: Direct IP interfaces

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