

Outage Reporting in an NG9-1-1 Environment

Ex Parte Presentation by

NENA: The 9-1-1 Association

before the

Federal Communications Commission

October 10, 2018

Reliability and Outage Reporting

E9-1-1 Control database

NG9-1-1 comparison

Relationship to network versus above network

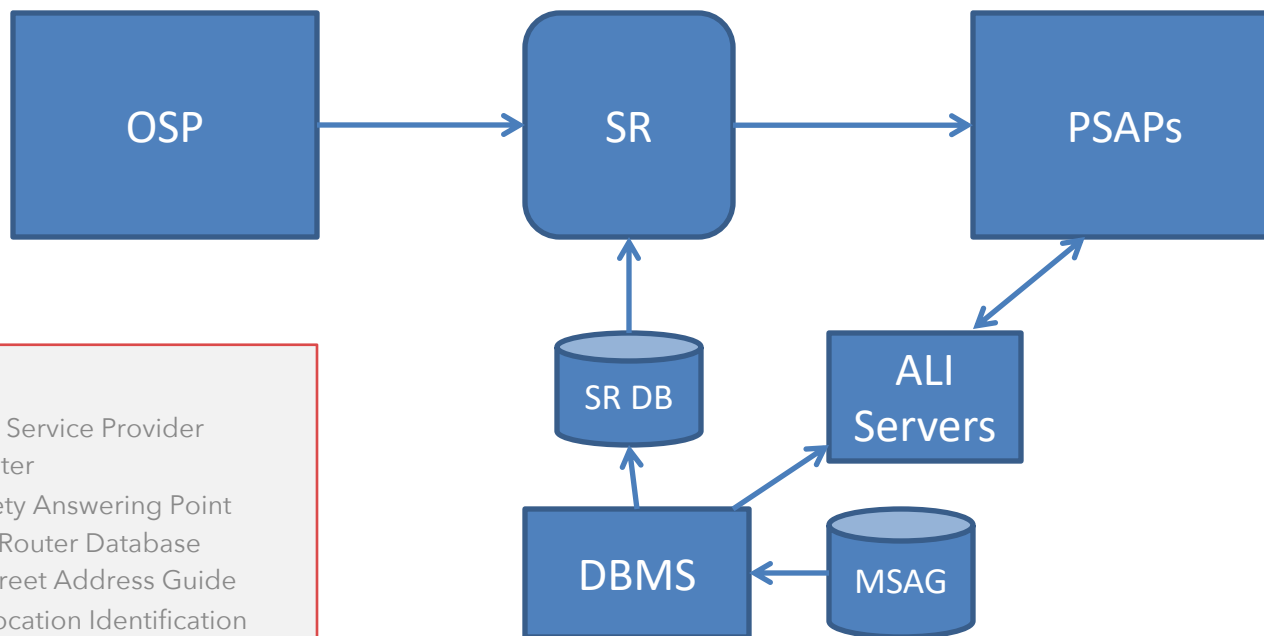
Comparisons

ASSOCIATION

Reliability and Outage Reporting: E9-1-1 Control Database

E9-1-1 Control database

The SR database that is used in real time for network call routing is periodically updated from an offline system.



Definitions

OSP: Originating Service Provider
SR: Selective Router
PSAP: Public Safety Answering Point
SR DB: Selective Router Database
MSAG: Master Street Address Guide
ALI: Automatic Location Identification
DBMS: Database Management System

Reliability and Outage Reporting: Wireless E9-1-1

Definitions

SR: Selective Router

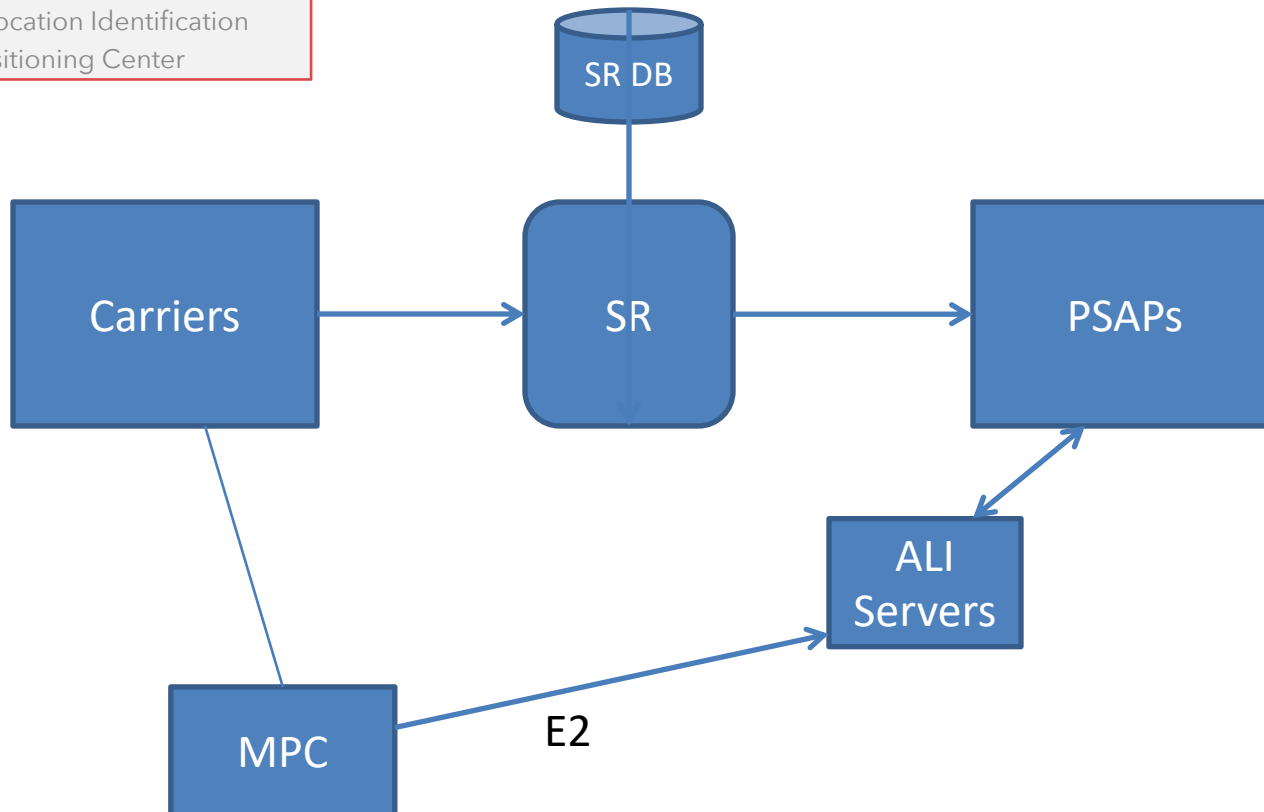
PSAP: Public Safety Answering Point

SR DB: Selective Router Database

ALI: Automatic Location Identification

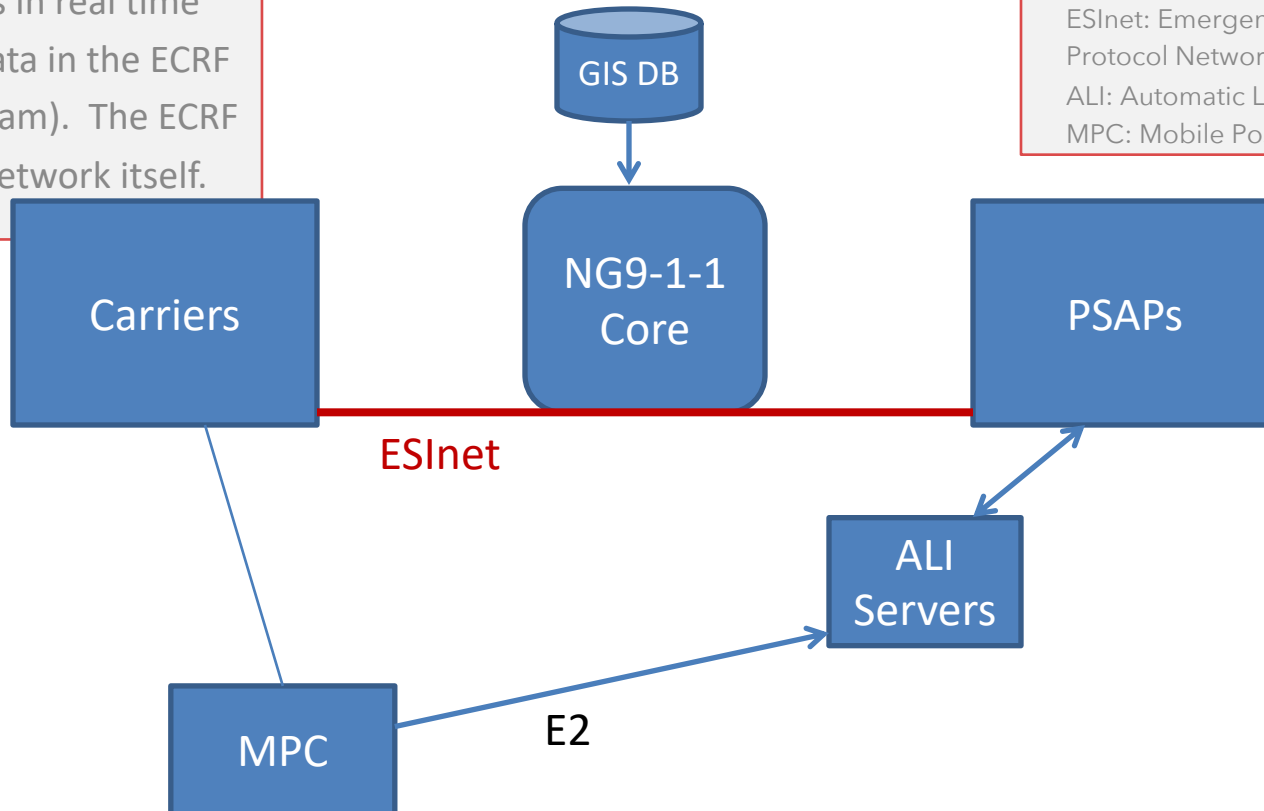
MPC: Mobile Positioning Center

Wireless E9-1-1



Reliability and Outage Reporting: Next Generation 9-1-1

In NG9-1-1, the real-time data used to instruct the IP network is from the ESRP, which interacts in real time with the GIS data in the ECRF (see next diagram). The ECRF is NOT in the network itself.



Definitions

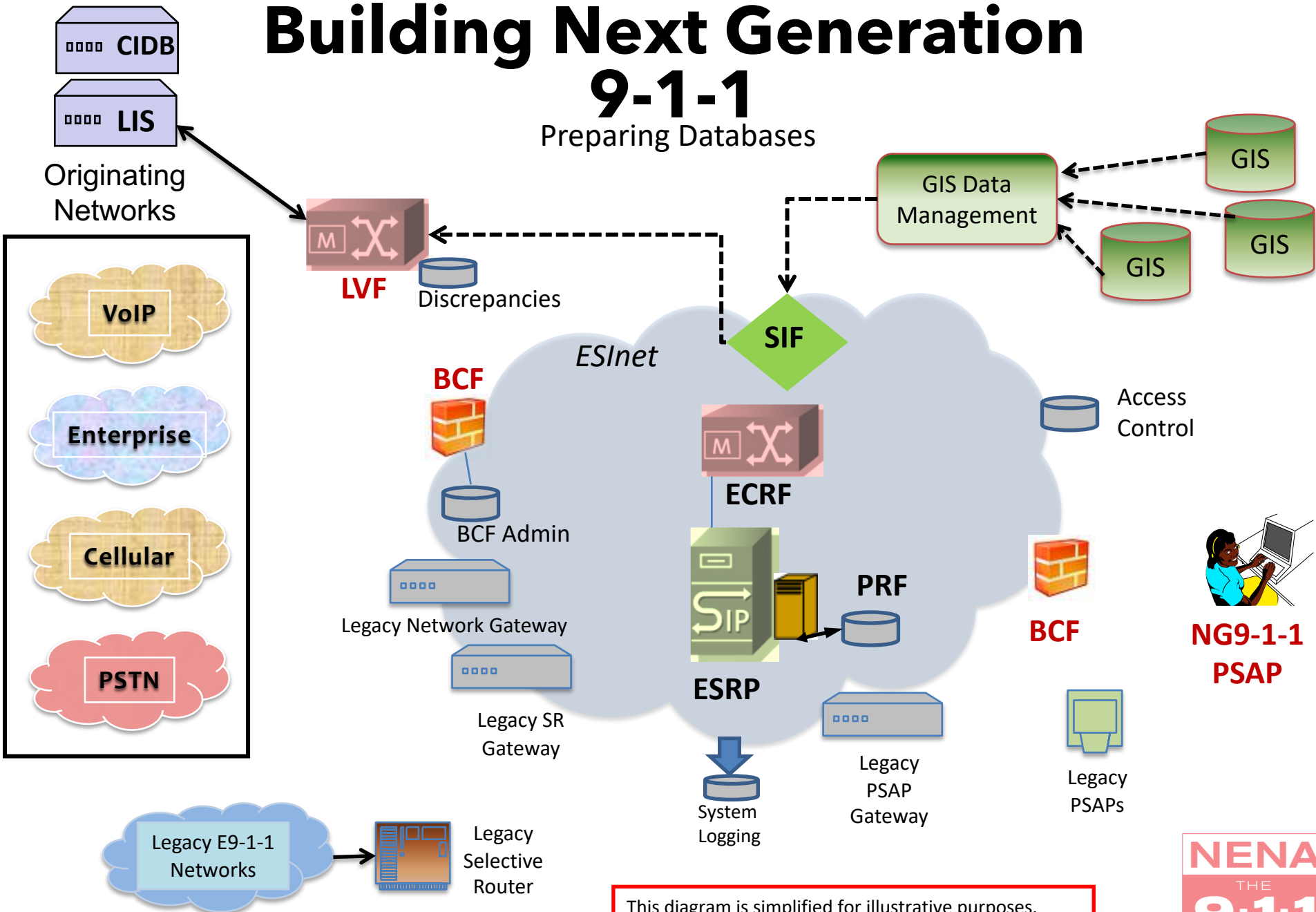
GIS DB: Geographic Information System Database

PSAP: Public Safety Answering Point
ESInet: Emergency Services Internet Protocol Network

ALI: Automatic Location Identification
MPC: Mobile Positioning Center

Building Next Generation 9-1-1

Preparing Databases



This diagram is simplified for illustrative purposes.