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GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES

**NG 9-1-1★ For the Line Level Dispatcher**  
**CALNENA 2022**



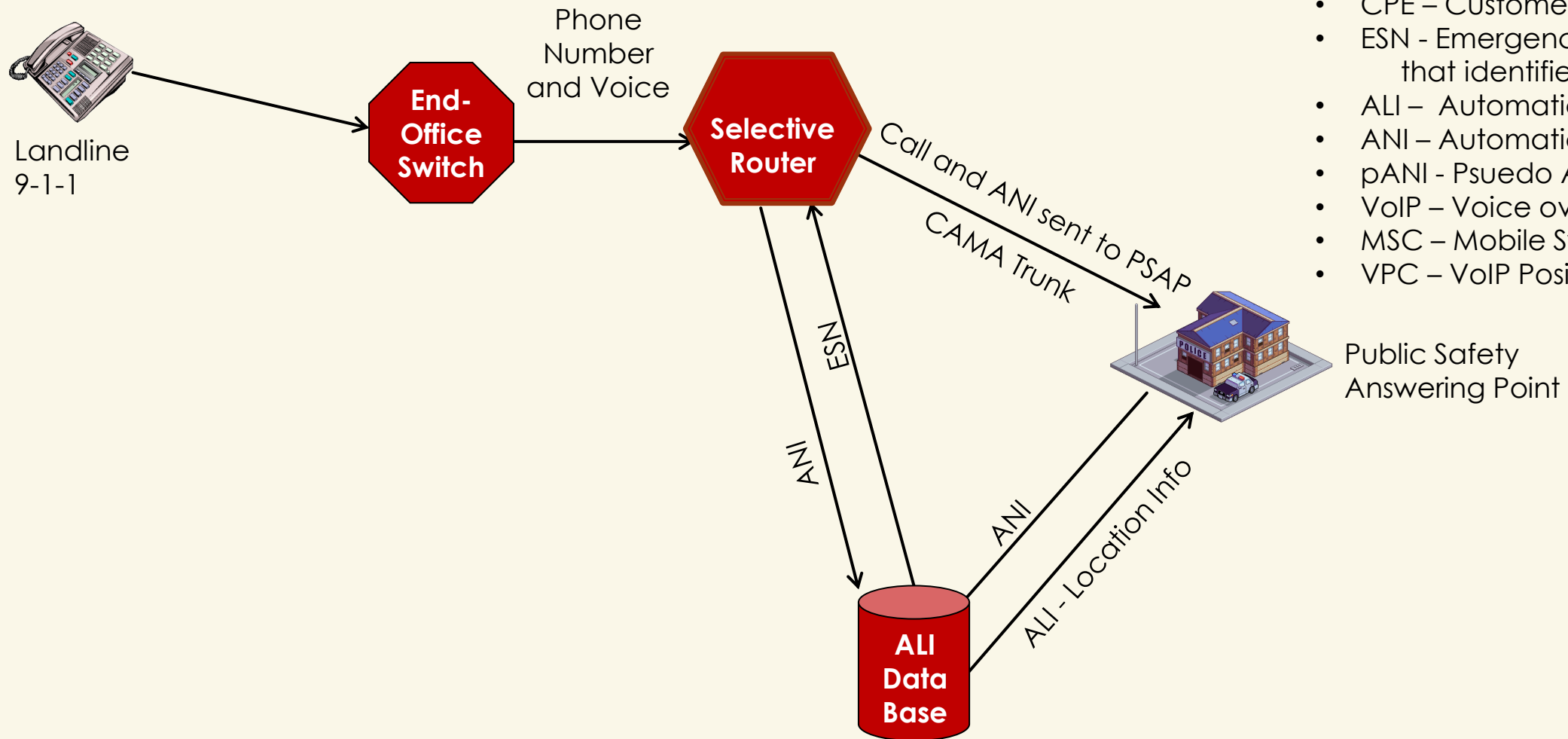


# Discussion Overview

- Today's 9-1-1 system
- 9-1-1 System Failures and what they impact
- NG 9-1-1 Terms and Concepts
- NG 9-1-1 Overview
- NG 9-1-1 Go Live and what to expect
- NG 9-1-1 and what will be available one day (soon...)



# Legacy 9-1-1 – Call routing

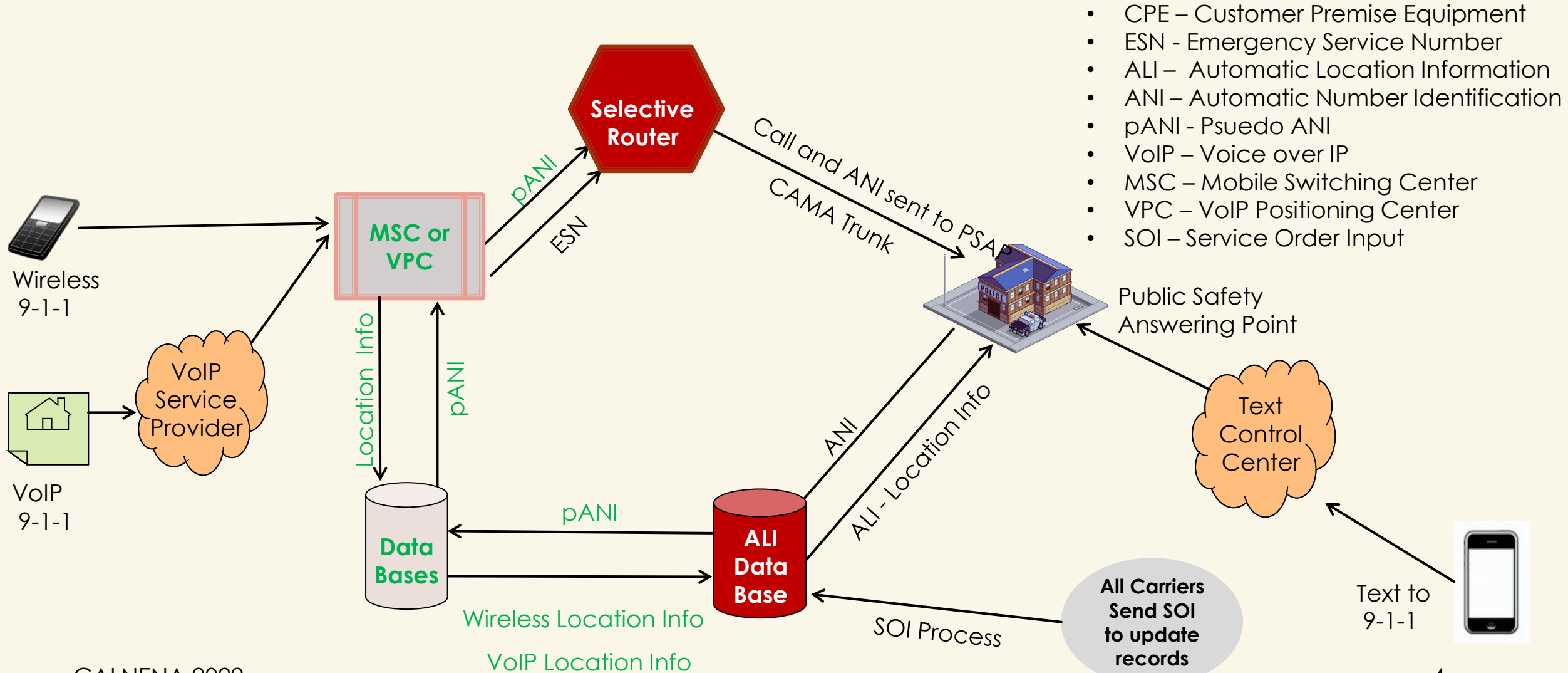


- CPE – Customer Premise Equipment
- ESN - Emergency Service Number that identifies PSAP to receive call
- ALI – Automatic Location Information
- ANI – Automatic Number Identification
- pANI - Psuedo ANI
- VoIP – Voice over IP
- MSC – Mobile Switching Center
- VPC – VoIP Positioning Center

Public Safety Answering Point



# Legacy 9-1-1 – Call routing

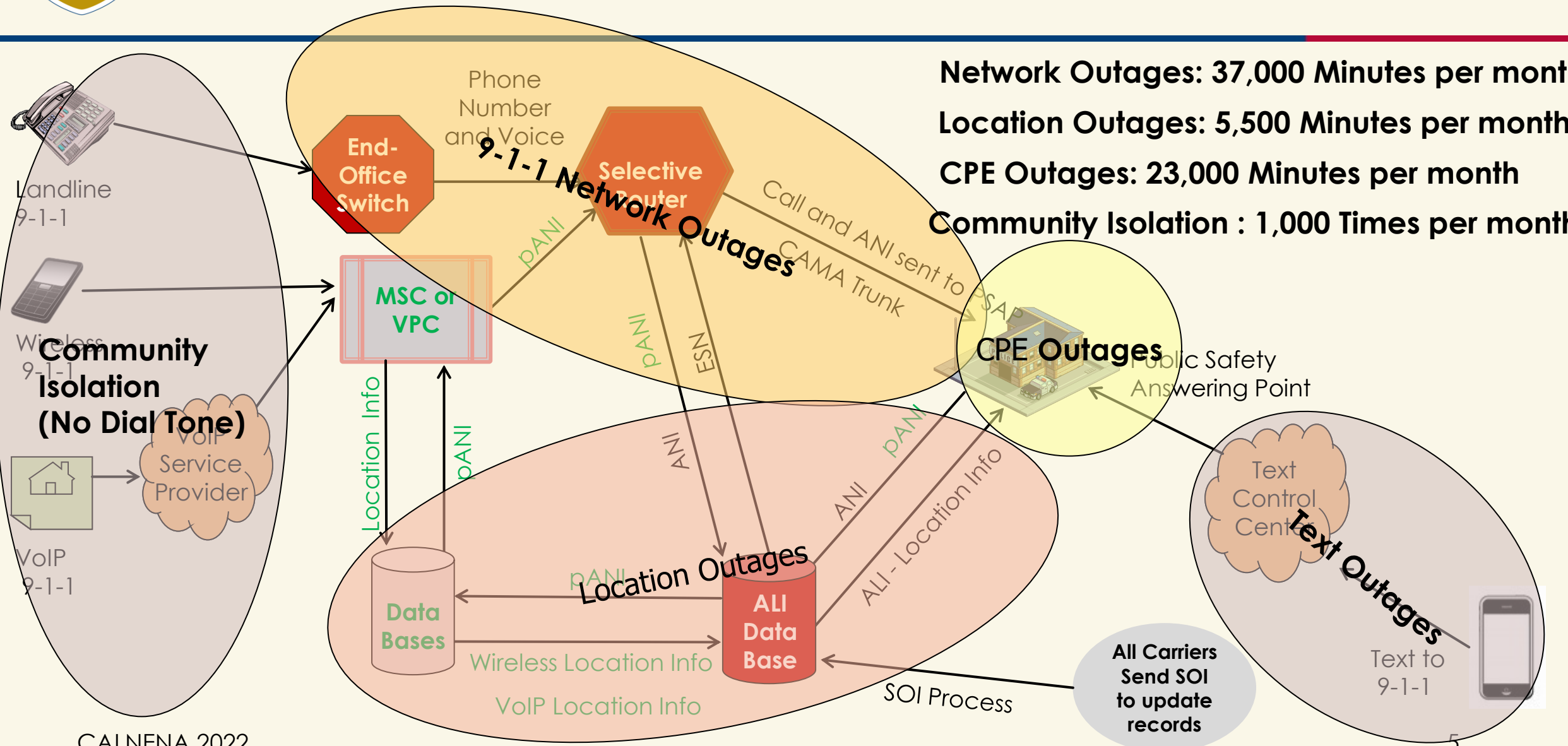


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- SOI – Service Order Input



# Legacy 9-1-1 – Outages

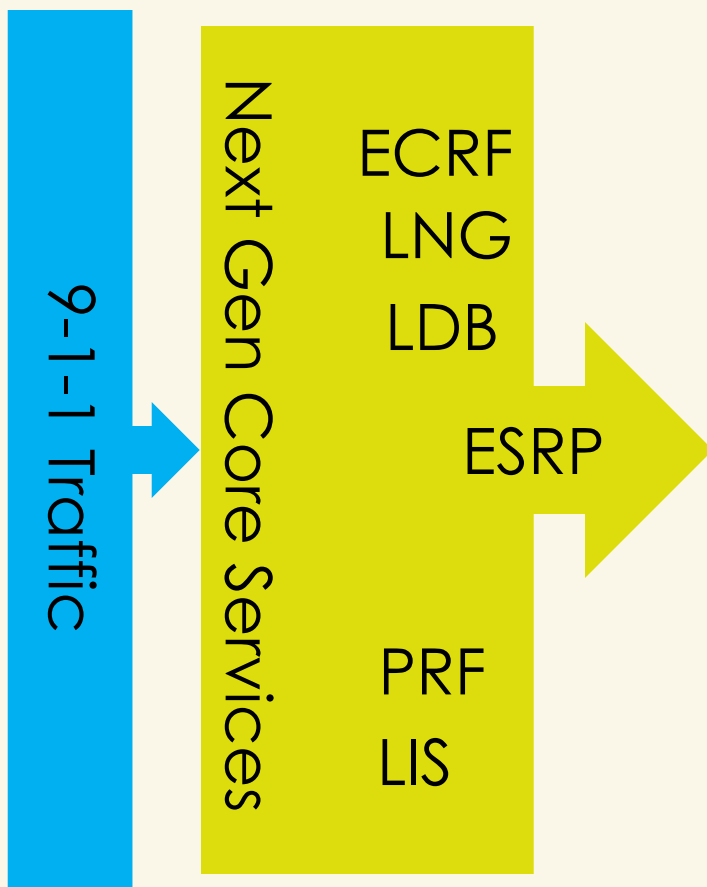
**Network Outages: 37,000 Minutes per month**  
**Location Outages: 5,500 Minutes per month**  
**CPE Outages: 23,000 Minutes per month**  
**Community Isolation : 1,000 Times per month**





# 9-1-1 traffic routing with NG 9-1-1

## Definitions



**ESRP** - Emergency Services Routing Proxy essentially replaces the selective routers in NG 9-1-1.

**ECRF** - Emergency Call Routing Function is the functional element where caller location and routing information for that call is stored (think GIS)

**LDB** - Location Data Base server retains all of the current information, functionality, and interfaces of today's ALI and can utilize the new protocols required in an NG 9-1-1 deployment

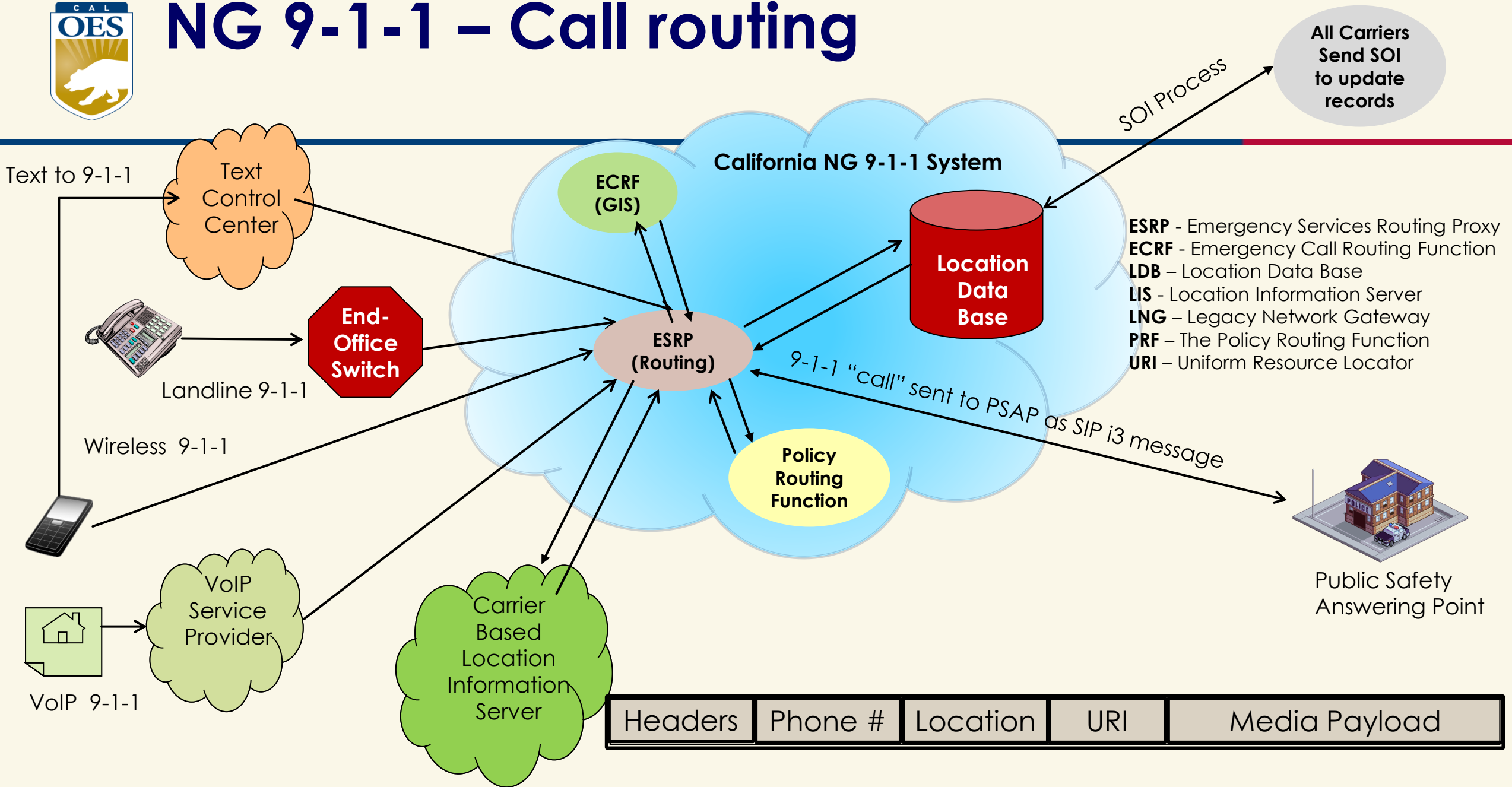
**LIS** - Location Information Server is used in conjunction with the LDB

**LNG** - Legacy Network Gateway - performs specific interworking functions to support ingress of non-i3 calls into the i3 network

**PRF** - The Policy Routing Function is where default, alternate, contingent, and emergency routes are located. The PRF is the specific functionality regarding 9-1-1 traffic routes

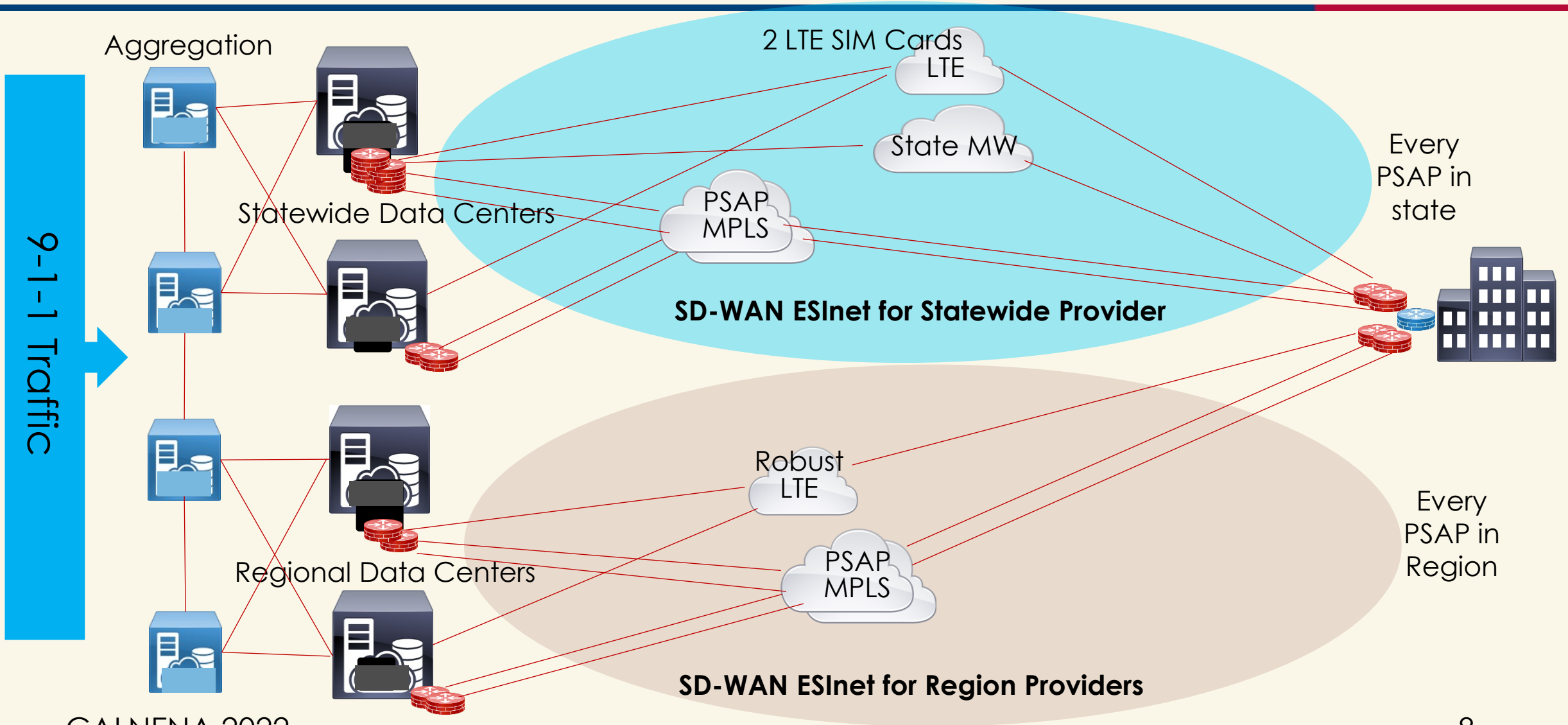


# NG 9-1-1 – Call routing





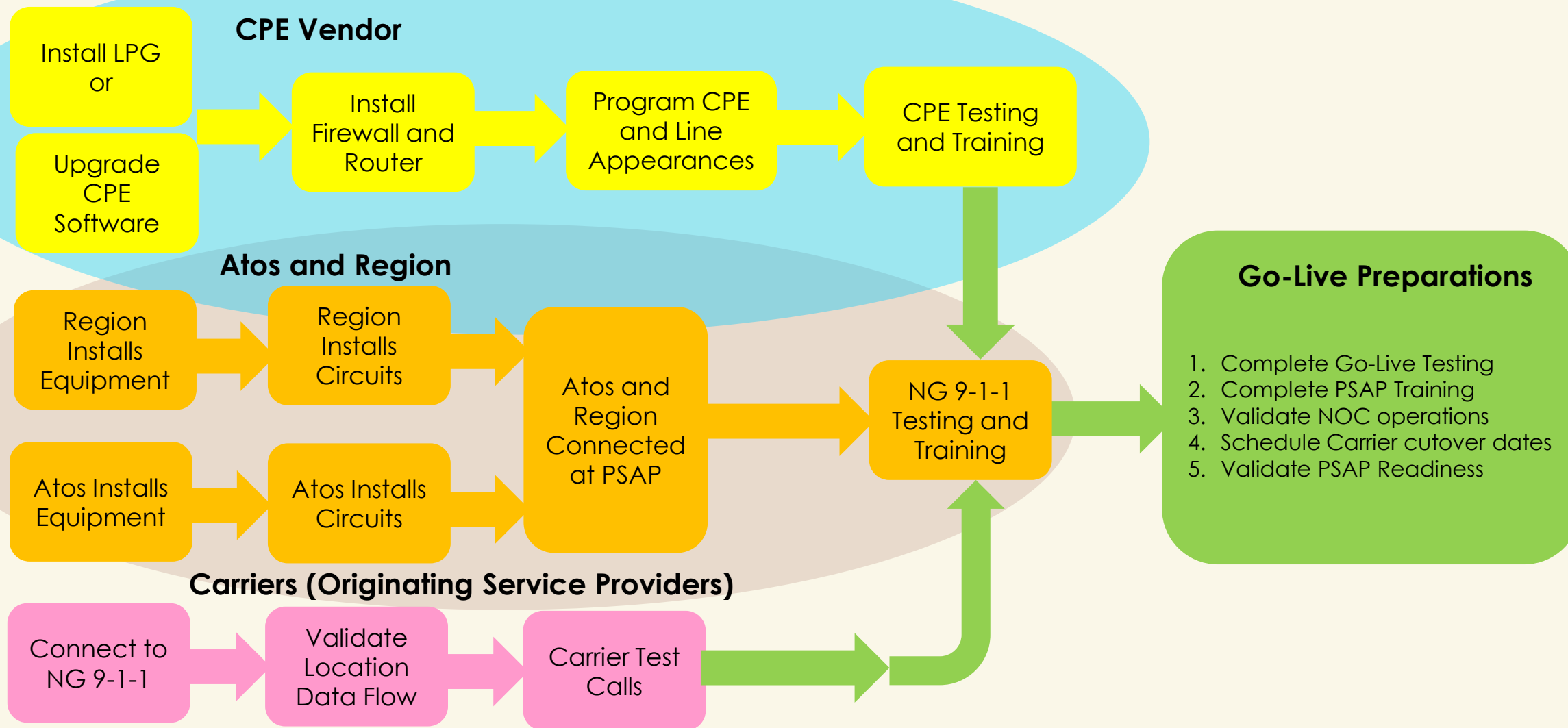
# NG 9-1-1 Connectivity







# Preparing for NG 9-1-1 Go-Live





# Your PSAP and the Testing Process

- Final testing requires dispatchers to answer calls to validate the programming is correct and that the training is adequate
- We are asking for PSAPs to support test windows for the testing that must be completed at the PSAP
  - Test Windows will be Tuesday – Thursday from 10:00 am – 1:00 pm
  - No more than 10 test calls will be completed in any single hour unless approved by PSAP
  - During planned events and increased busy times, test windows can be cancelled by PSAP
  - Each PSAP will have unique testing number for Atos and their region to support additional PSAP testing



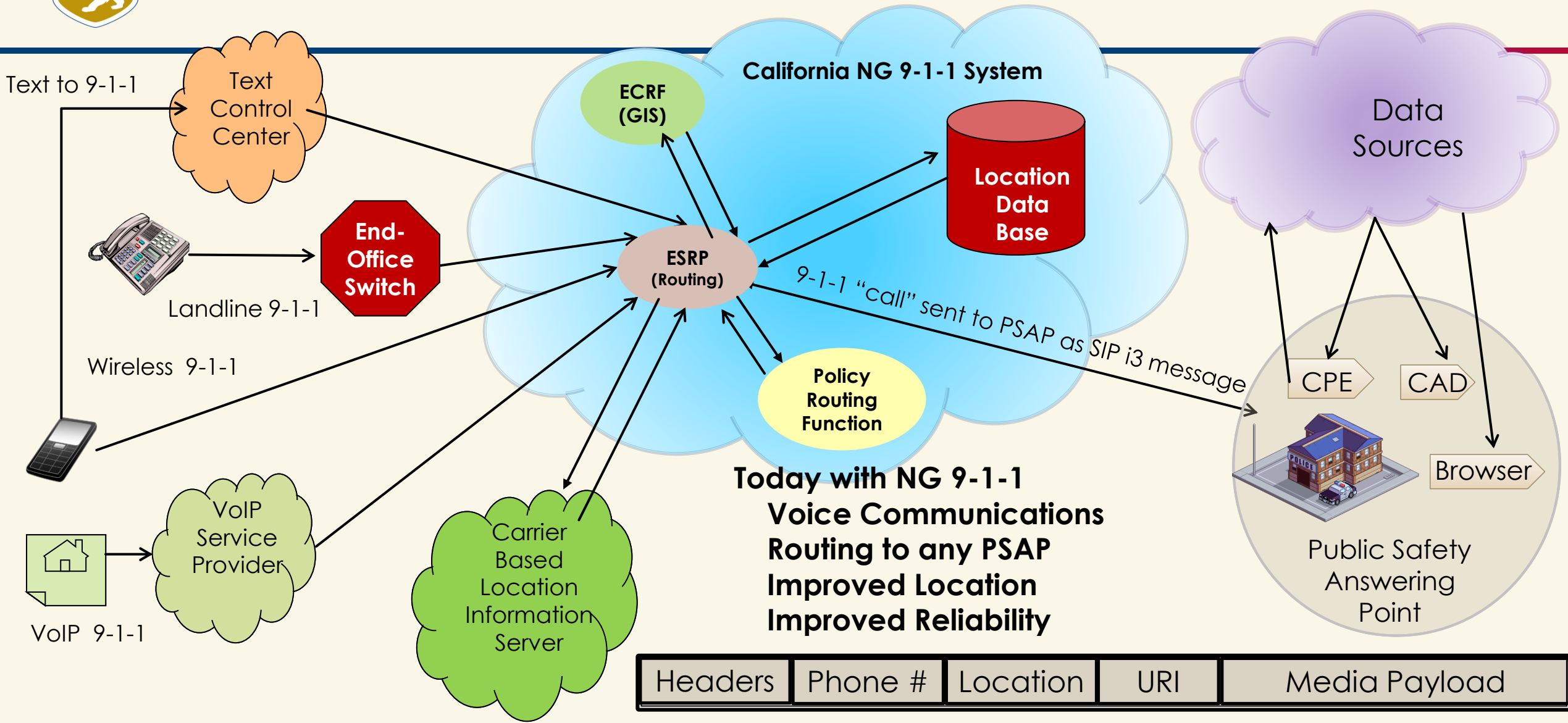
# What does NG 9-1-1 Testing look like for my PSAP?

There will be many types of Testing:

- CA 9-1-1 Branch NG 9-1-1 lab testing (Completed)
- CPE Testing to validate CPE upgrades or LPG (Almost Completed)
- NG 9-1-1 Testing to validate NG 9-1-1 connectivity to your PSAP
- CPE and NG 9-1-1 Testing – Test numbers provided to PSAP for PSAP testing
- “Go Live” Testing to validate NG 9-1-1 Go-Live readiness
- Carrier Testing to validate each carrier can deliver 9-1-1 calls through NGCS
- “Go Live” and Carrier Testing – After line appearances are programmed on your CPE and training is completed by the CPE vendor, anticipate that your PSAP will be receiving NG 9-1-1 test calls

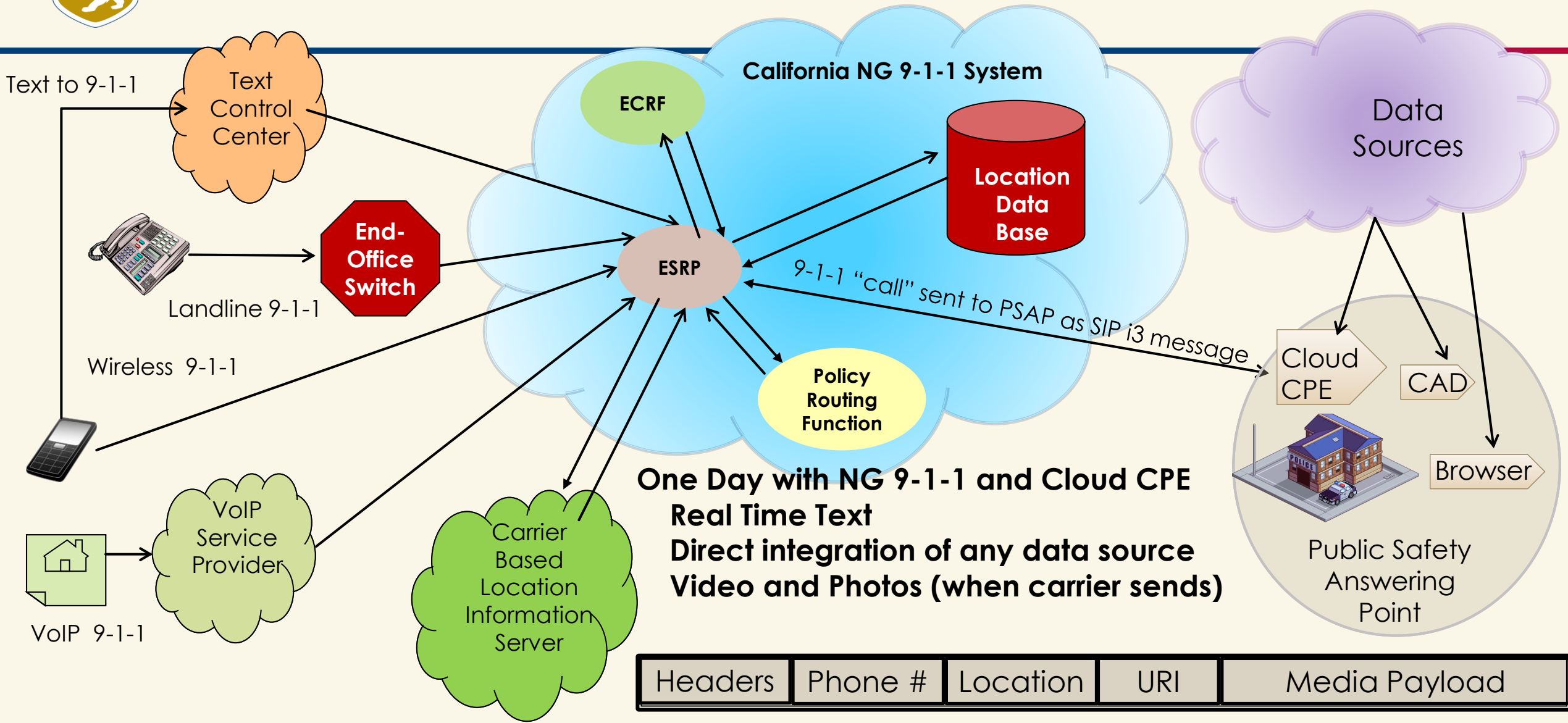


# NG 9-1-1 – And Data Available today



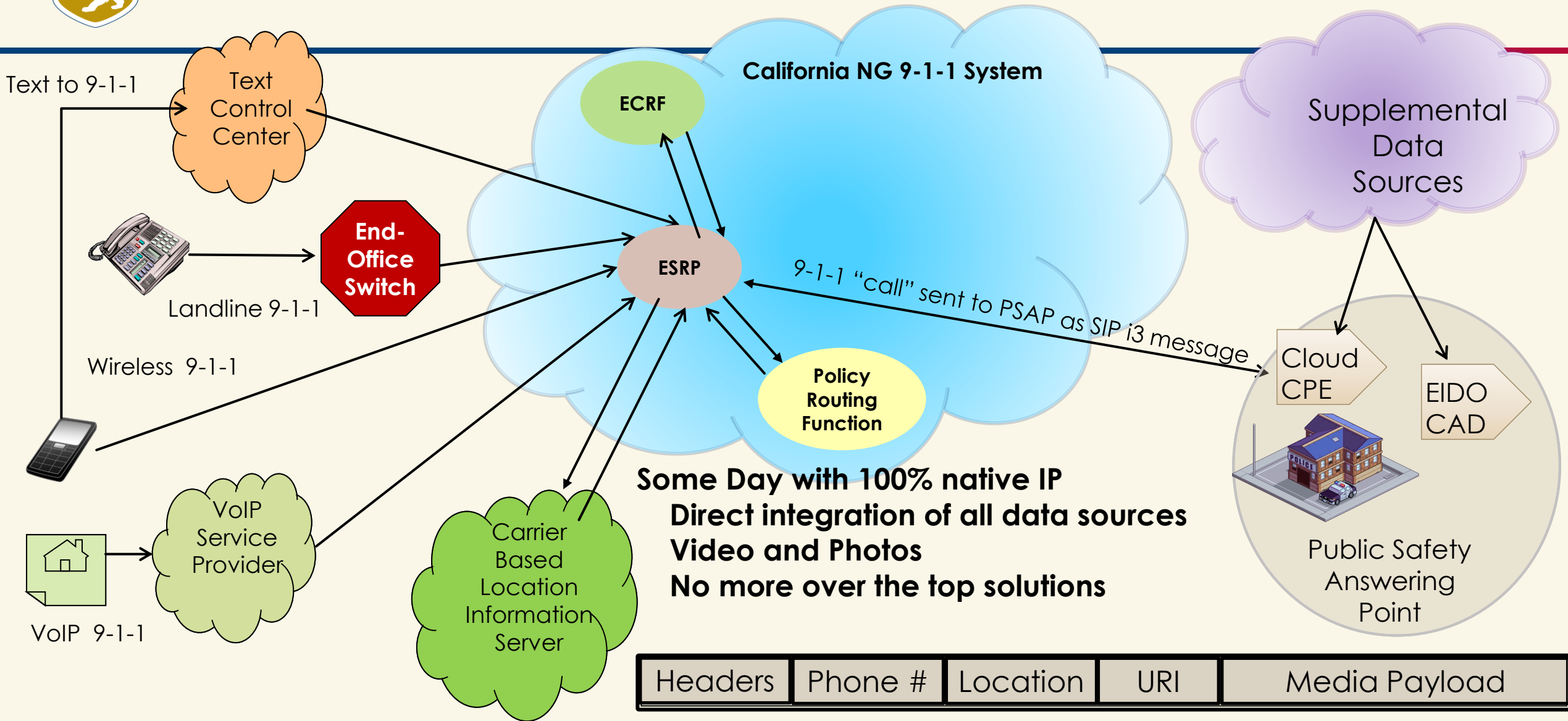


# NG 9-1-1 – And Data Available One Day





# NG 9-1-1 – And Data Available Some Day





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**Any Questions**