

NG911

AT&T Public Safety



Kent Ames

AT&T Public Safety



AGENDA



- AT&T Public Safety
- ESInet Considerations
- AT&T ESInet™
- CAD and Tactical Mapping



AT&T Public Safety

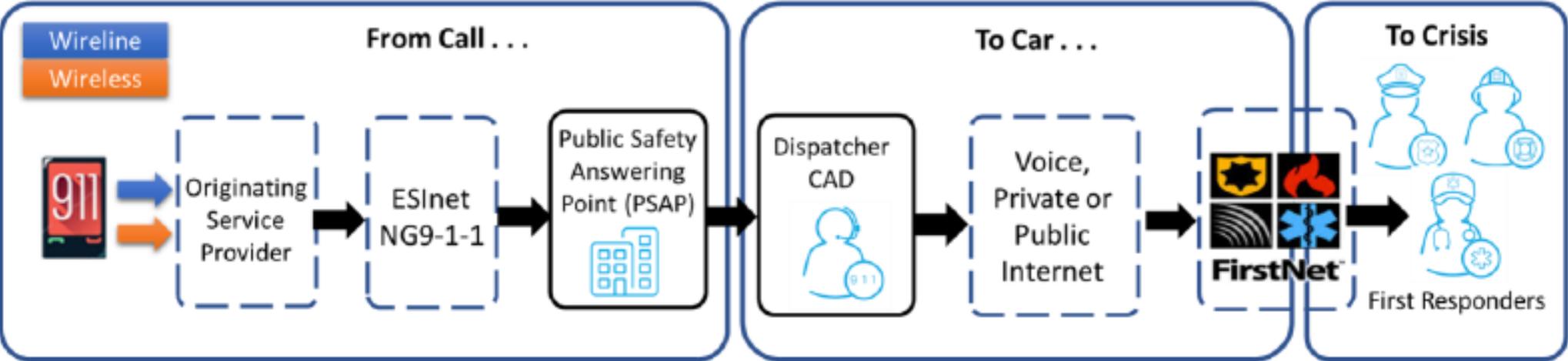




Connecting Citizens
Connecting First Responders

Call to Car to Crisis

Emergency Response Flow Call to Car to Crisis

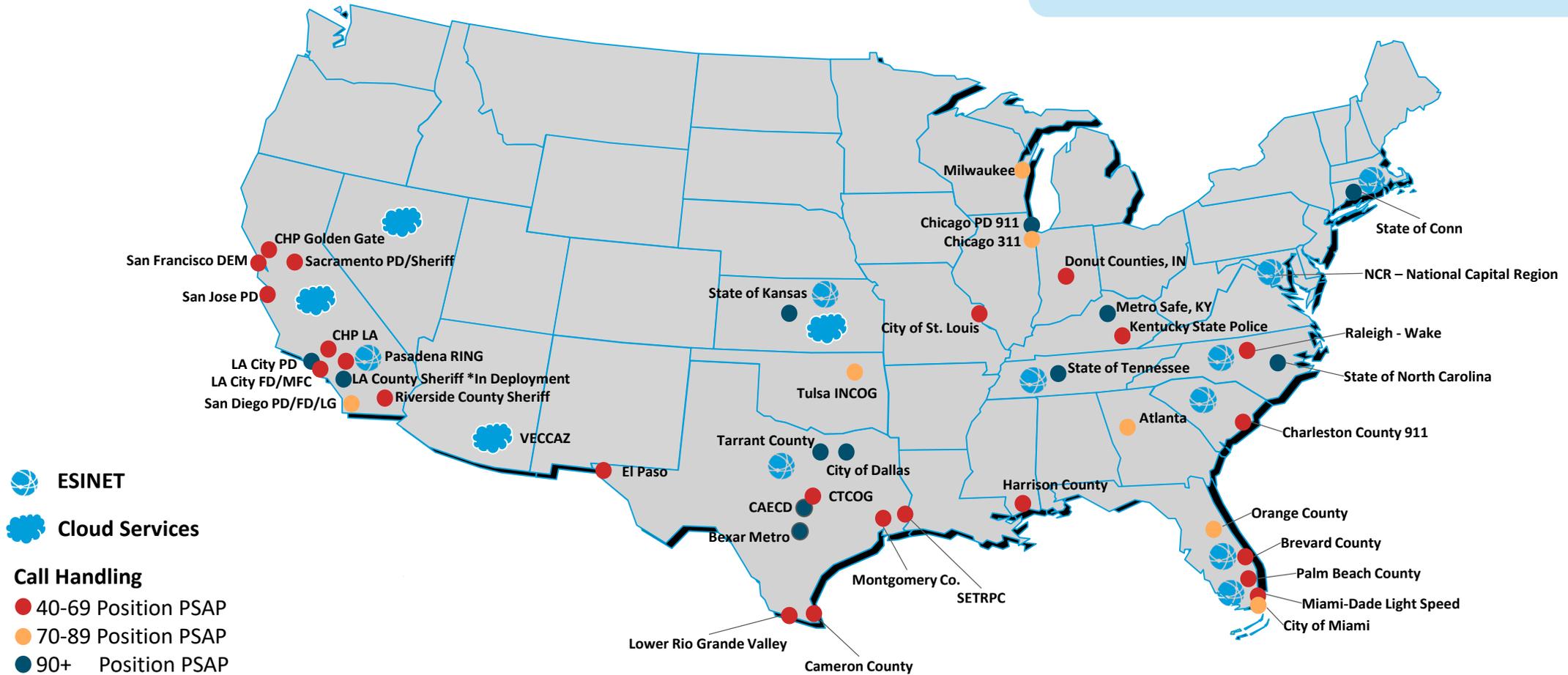


Public Safety Solutions Vendor Partners

AT&T ESInet™	Call Handling	Location Data	CAD	RMS/JMS
	 <p>MOTOROLA</p>  <p>SOLACOM A Subsidiary of Comtech Telecommunications Corp.</p>		 	 

AT&T NG911 Services – Contracted, Deployed & Trials

- U.S. PSAPs = 5,783 (NENA, Dec 2017)
- AT&T 911 PSAPs = 2,700+



ESInet Considerations

Implementing Next Generation 911



Call Handling Integration



Call Handling

911 Call Handling

- Analog- Legacy PSAP Gateway
- IP-SIP/i3
- SMS Integration over ESInet
- Certification between ESInet and Call Handling versions



Certification

Hardware Compatibility

- ESInet
- Call Handling

Testing

- Major & Minor Release Control
- Vendor Coordination

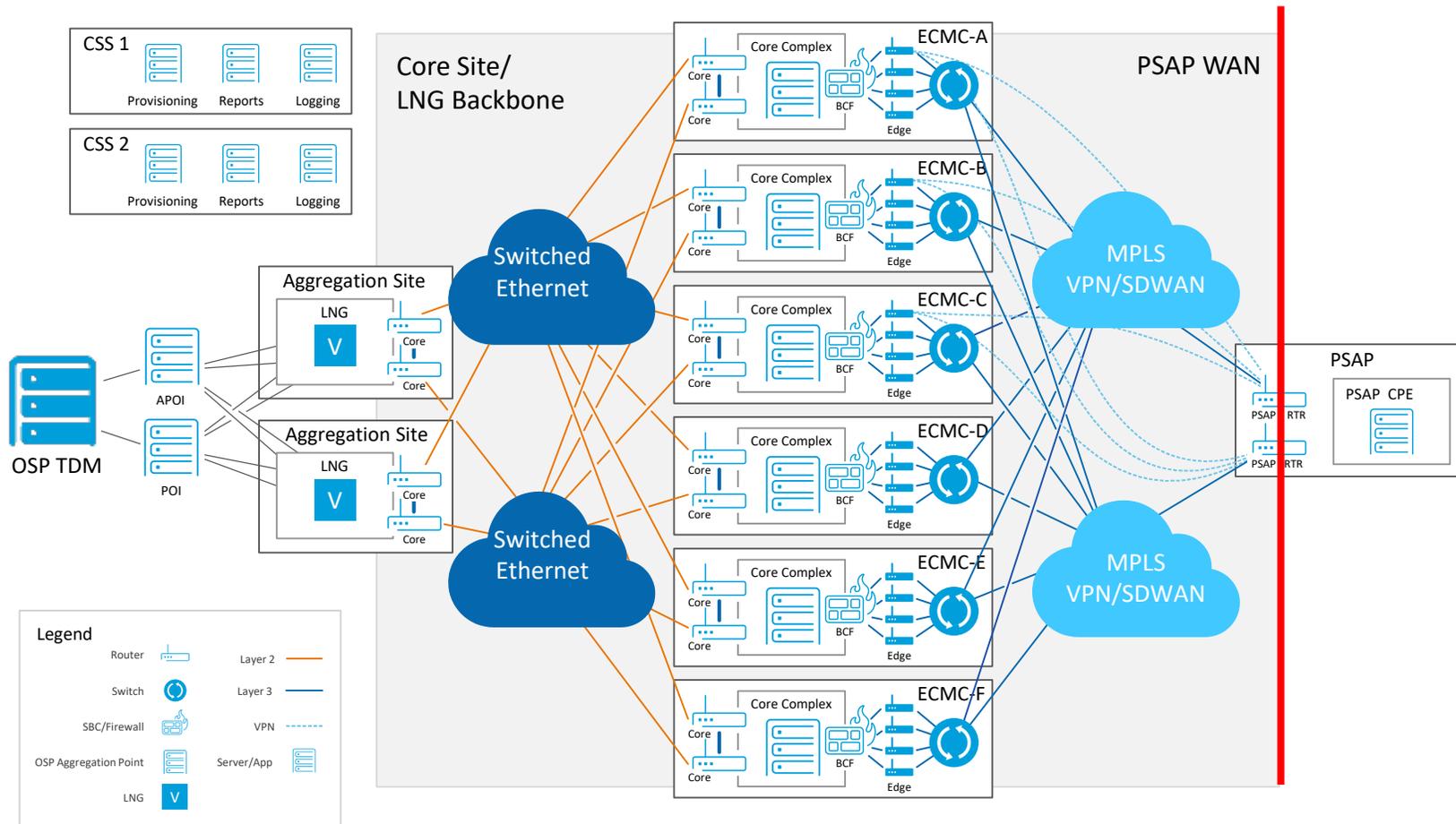
Software Release

- LAB Regression Testing
- BETA Testing
- First Company Application
- Approval for Use

Aggregation of Service Providers



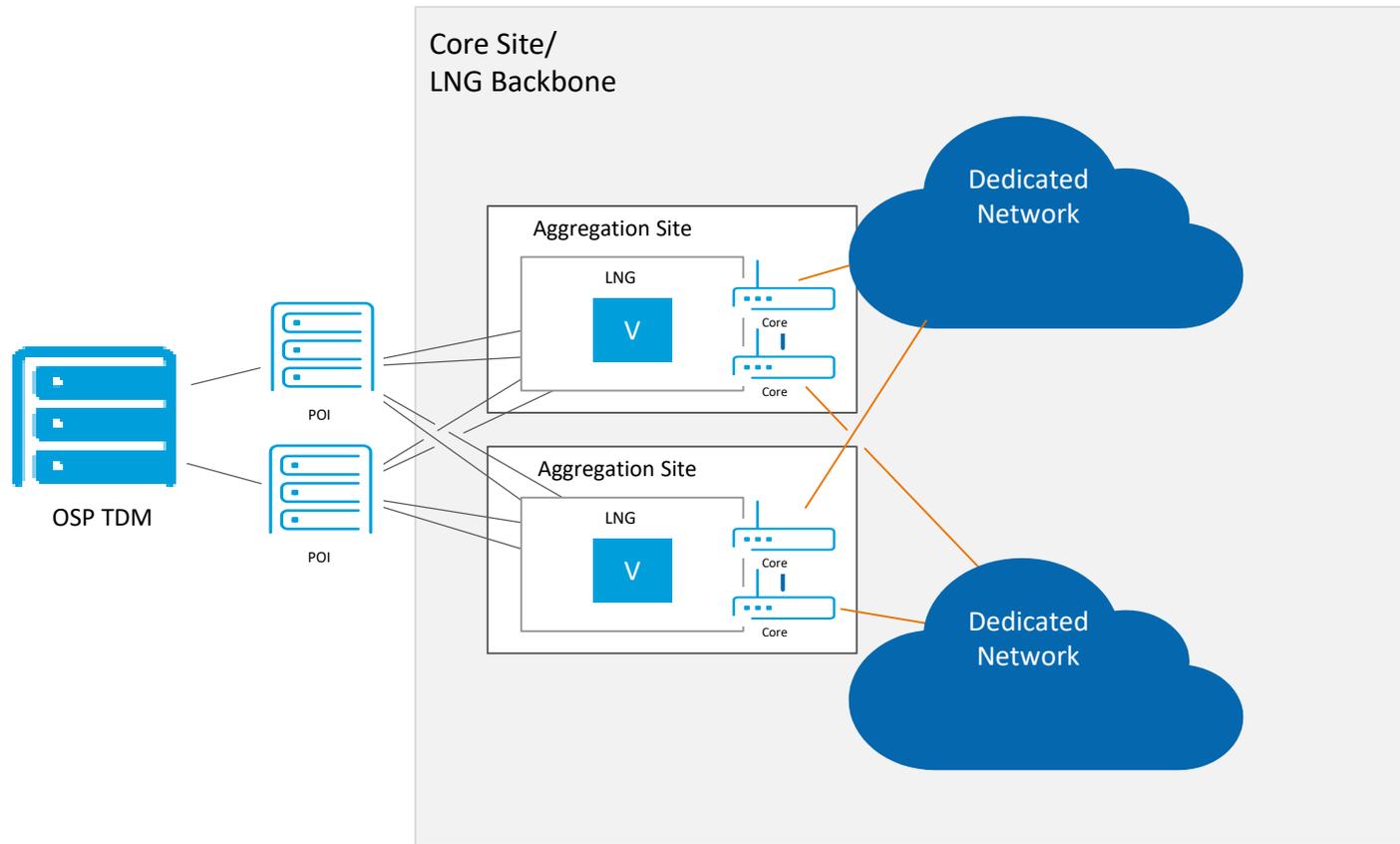
Aggregation



Key Benefits

Geographically diverse, redundant aggregation sites; with expandable growth capacity across the US

Aggregation



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Geographically diverse, redundant aggregation sites; with expandable growth capacity across the US

Viability of Provider



Provider Considerations

- **Financial depth-** Ability to meet the commitment of the contract without substantial upfront payments
- **Name or Brand to protect**
- **Carrier Experience**



AT&T ESInet™



AT&T ESInet™



A mobile solution for the mobile revolution.

Connect with your community the way they connect with each other.

Local Design Approach

- Local market design implementation and custom solutions
- Local and custom support models with custom feature development to support the local 911 market
- Designed to meet local customer requirements for performance and availability.

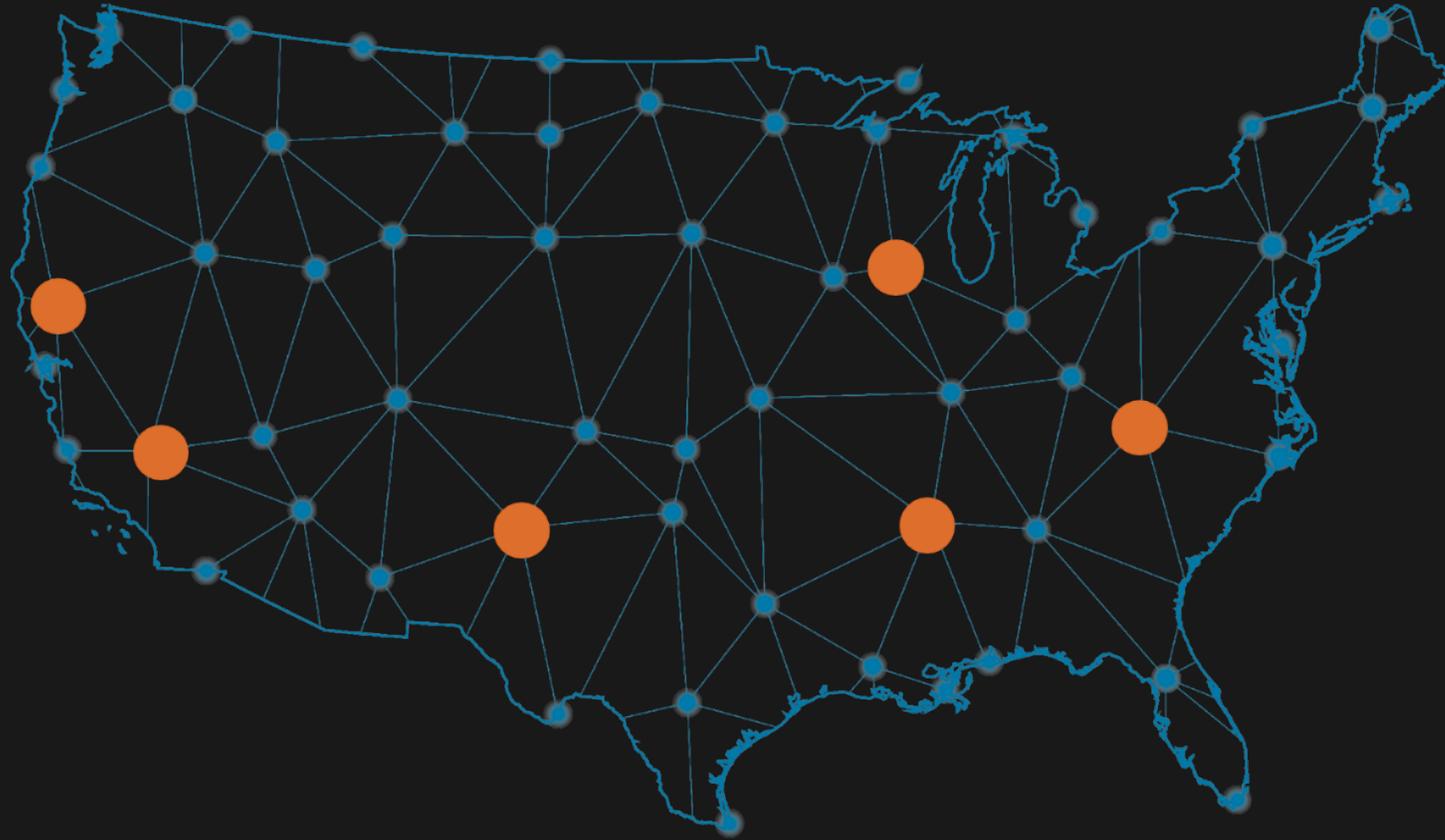


National Approach

- Utilize AT&T carrier design, build & operate experience and invest in national ESInet solution
- Deliver a consistent and reliable experience to our customers nationwide, to create standard and predictable provisioning and implementation processes
- Backed by standard Service Level Agreements (SLAs) for Availability/Time to Restore, Call Delivery, Call Quality. On-Time Provisioning

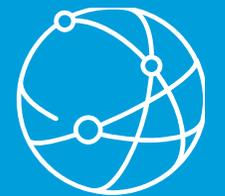


AT&T ESInet™



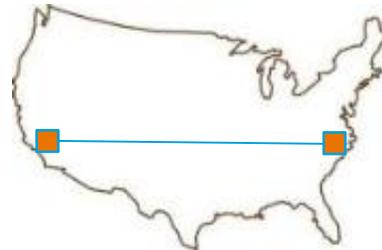
National Footprint

Buildout Complete & Ready for Live Traffic



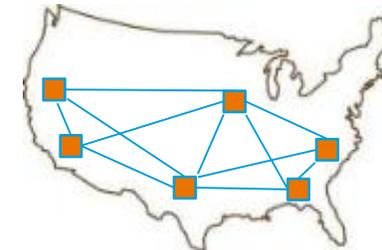
AT&T ESInet™ Strategy

Competitive Solution



2 Core Nodes

AT&T ESInet™



9 AGC's 6 Core Nodes

Solution Architecture

Availability

Features

- Redundancy
- OSP Management
- Database
- i3 Core Services
- Network
- Text 9-1-1
- Security, Monitoring, Network

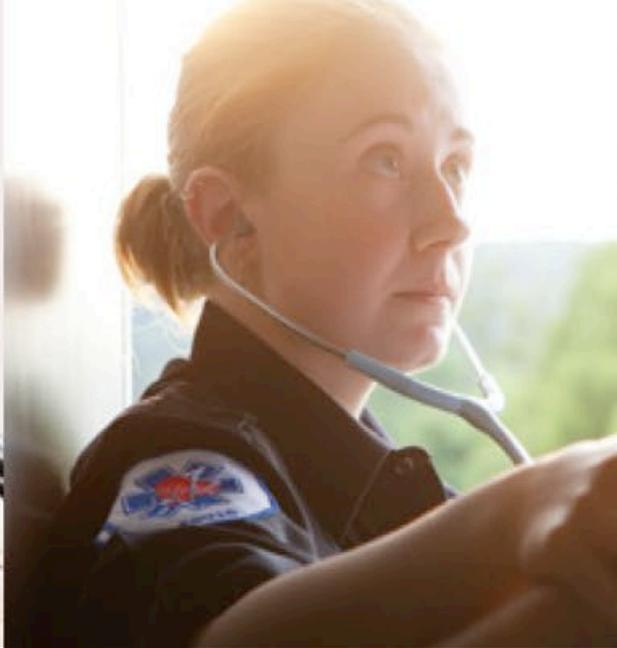
24 - 36 months

- Geographic
- Long Carrier Circuits
- Varies
- Some
- 3rd Party Local Network
- Some
- 3rd Party

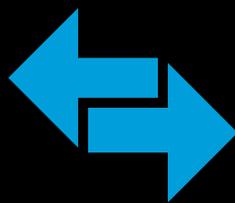
6 - 12 months

- Geographic, Multi Layer Redundancy & Resiliency
- Local POI
- ALI, LDB, GIS
- Full Support
- AT&T Managed MPLS Network Service
- Yes
- AT&T Managed Services





FIRSTNET™
Built with AT&T



NG9-1-1
Interconnection

NG911 ↔ FIRSTNET



Cloud Services

Data to support First Responders & Communications Centers



PSAP

FirstNet WAN backup



First Responders

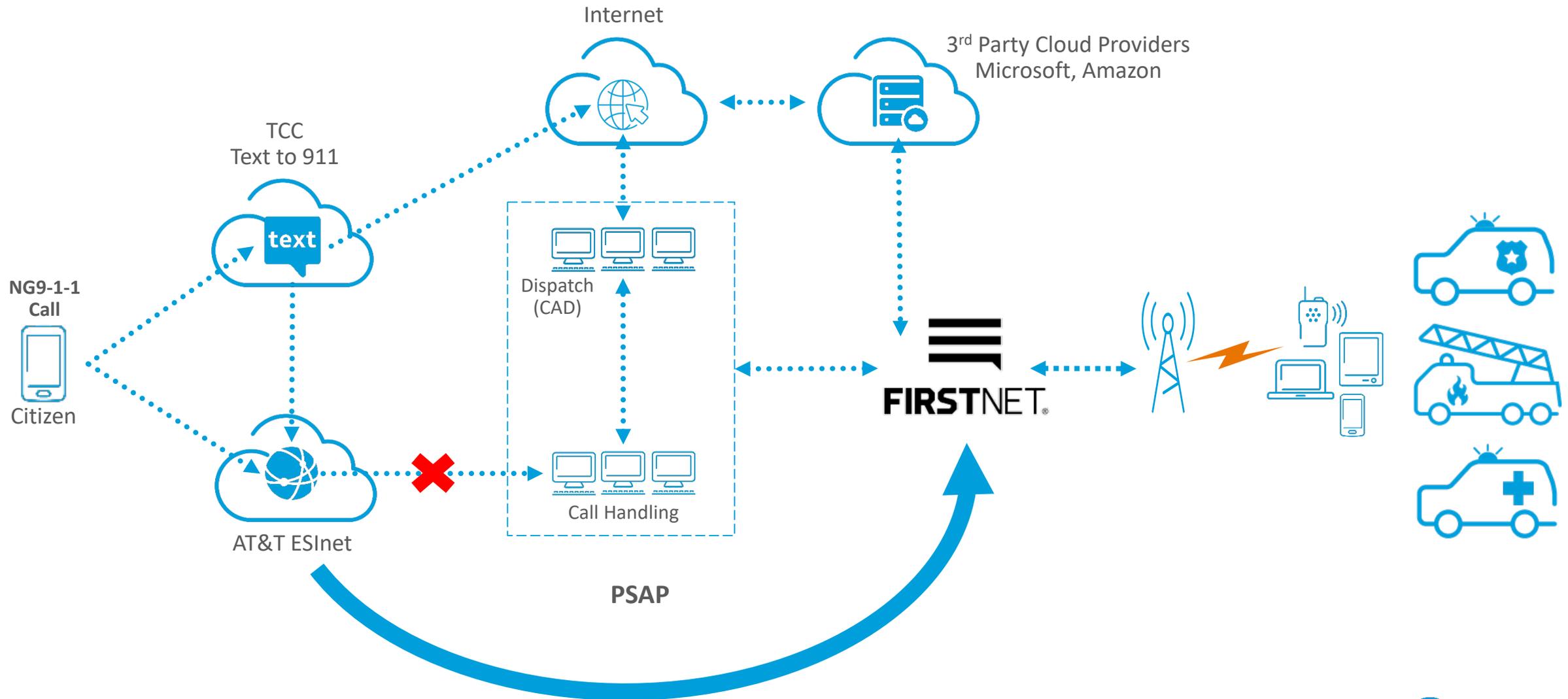
Data capture, pictures, video
Real time call information
Analytics to the field



Cybersecurity

Virtual Private Network (VPN) connectivity
Cloud Service Provider Interface

Emergency Response Flow – Next Generation 9-1-1



RapidDeploy

The Future of 9-1-1 CAD and
Tactical Mapping

The Products: Cloud-Native 9-1-1 Dispatch Software



RapidDeploy NIMBUS CAD

A comprehensive dispatch platform for call-takers, dispatchers and responders that offers all features of Tier 1 CADs and much more, including artificial intelligence workflows and unprecedented situational awareness.

Emergency Dispatch Platform



RapidDeploy RADIUS MAPPING

A best in class tactical mapping solution that leverages a deep ESRI integration and a variety supplemental location data sources, optimized for use by 9-1-1 call-takers.

Tactical 9-1-1 Mapping



RapidDeploy EDGE ANALYTICS

A future-proof analytics solution that ingests your phone and CAD data into the cloud and generates unique insights and reports, including predictive and prescriptive analytics supported by Artificial Intelligence.

9-1-1 Call Analytics

The Future of 9-1-1: Cloud Aided Dispatch



**Ease
of
Deployment**

Days, Not Years



**Cost
of
Ownership**

Democratizing Public Safety



**Reliability
and
Security**

Zero Downtime



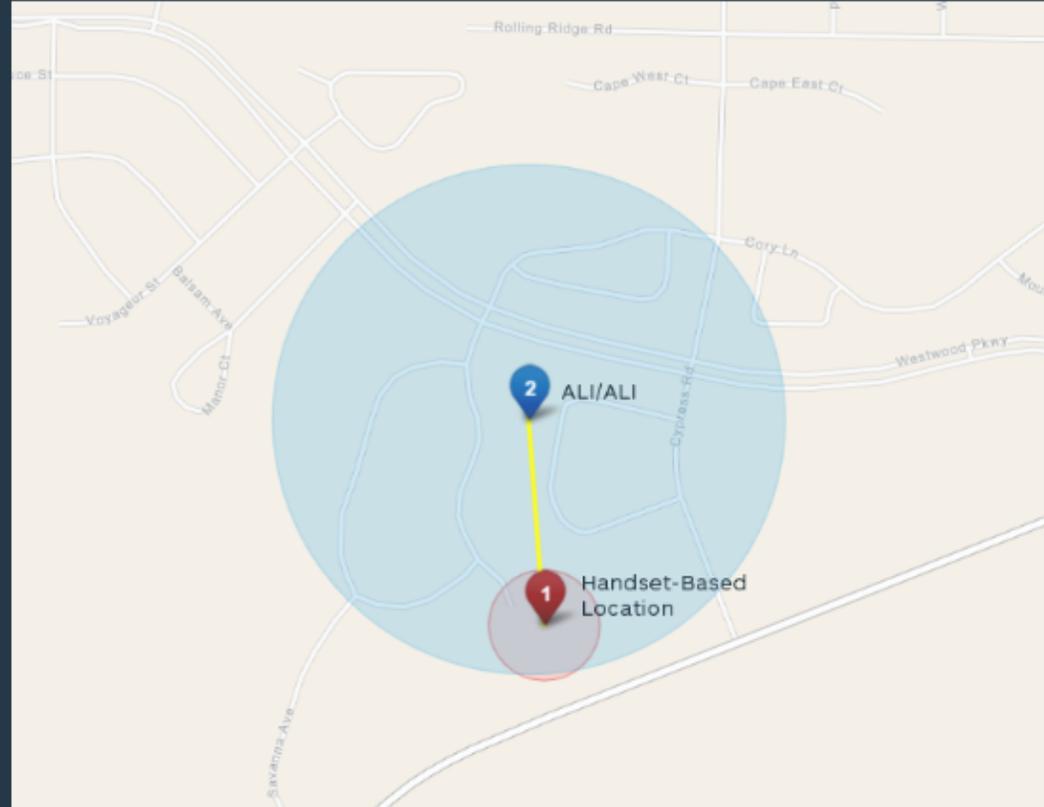
**Features
and
Functionality**

Open Ecosystem

RapidDeploy Radius Mapping

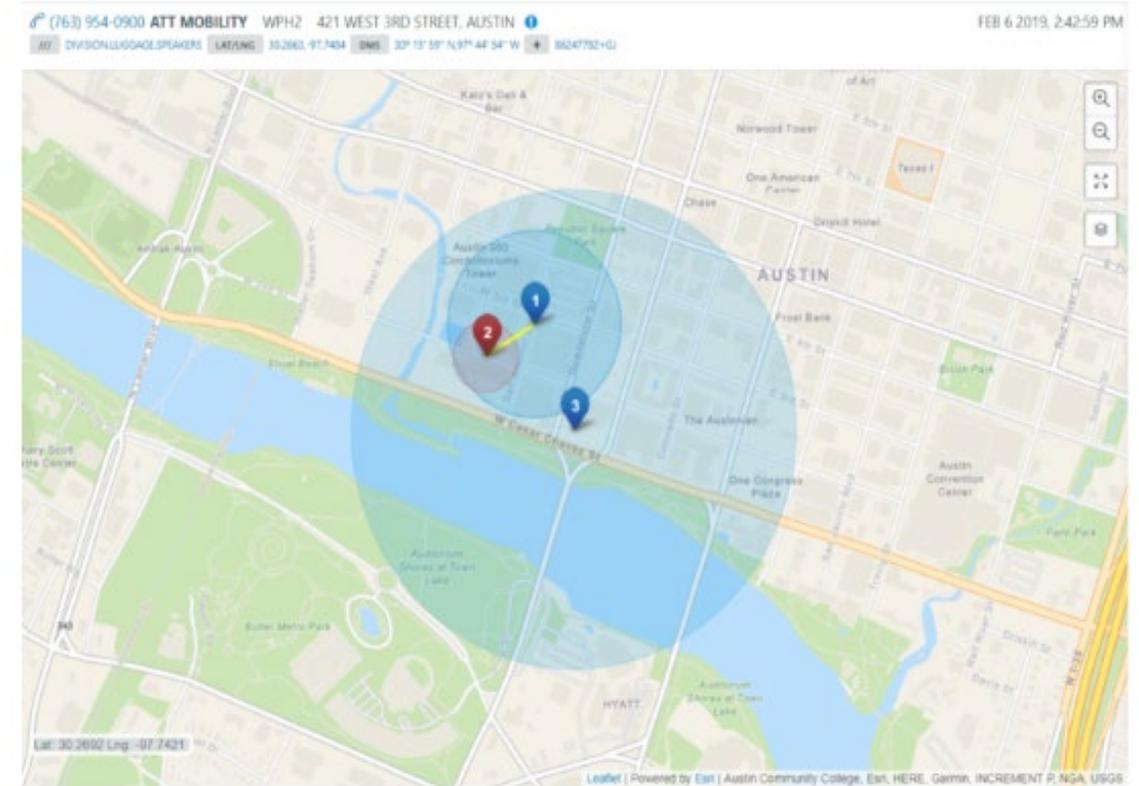
RapidDeploy RADIUS MAPPING

Tactical Mapping for the Future



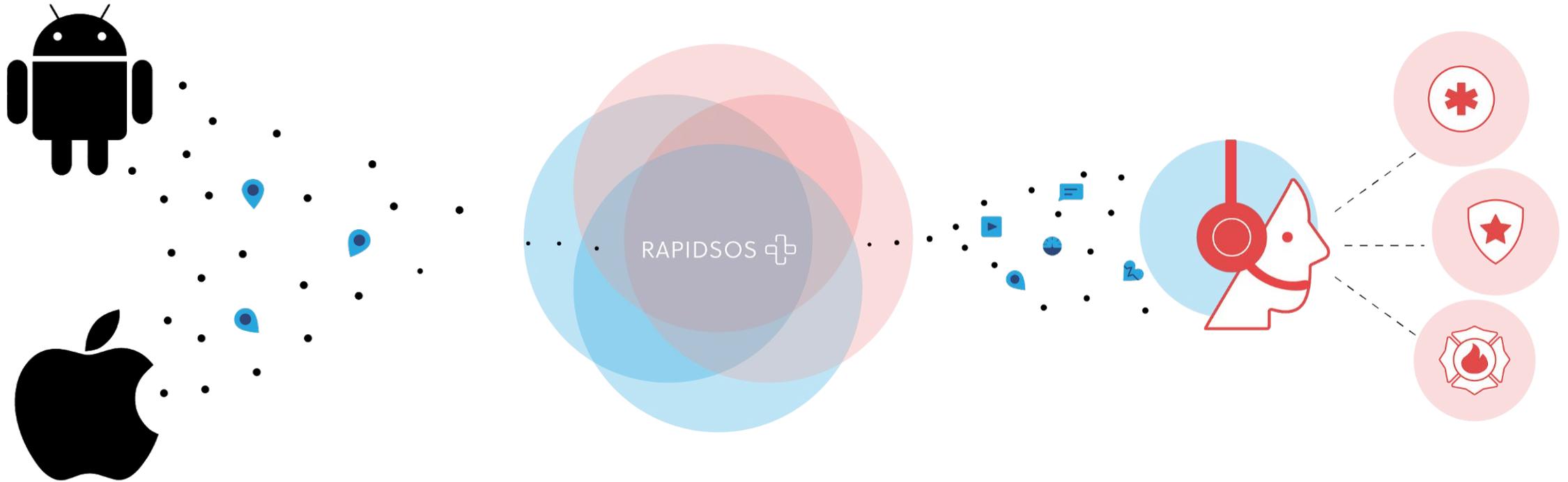
Leverage the power of the ESRI Geospatial Cloud

- **Find callers quickly** - automatically displays ALI/ANI location and RapidSOS location side by side, tracking incident location and callers in motion. Integrated with your 9-1-1 phone system, there is no need to manually enter a number.
- **Locate what you need** - perform searches for addresses, points of interests and place names in addition to all common geodetic formats.
- **Understand the situation in a glance** - real-time traffic and incident data from TomTom and Waze, as well as real-time Weather data from DarkSky.
- **Leverage existing GIS resources** - powered by Esri Geospatial Cloud, your own authoritative GIS data and countless basemaps and feature layers, you'll be able to easily configure custom map layers and authoritative geocoding services.



RapidSOS Clearinghouse: Location Data Partners

Data Source: iPhones (iOS 12+), Androids (4.0+) | Data: Device location



1

During a 911 call, the caller's location is calculated using all the sensors on the device (GPS, WiFi, bluetooth beacons, etc.)

2

The caller's device location is securely sent to the RapidSOS Clearinghouse

3

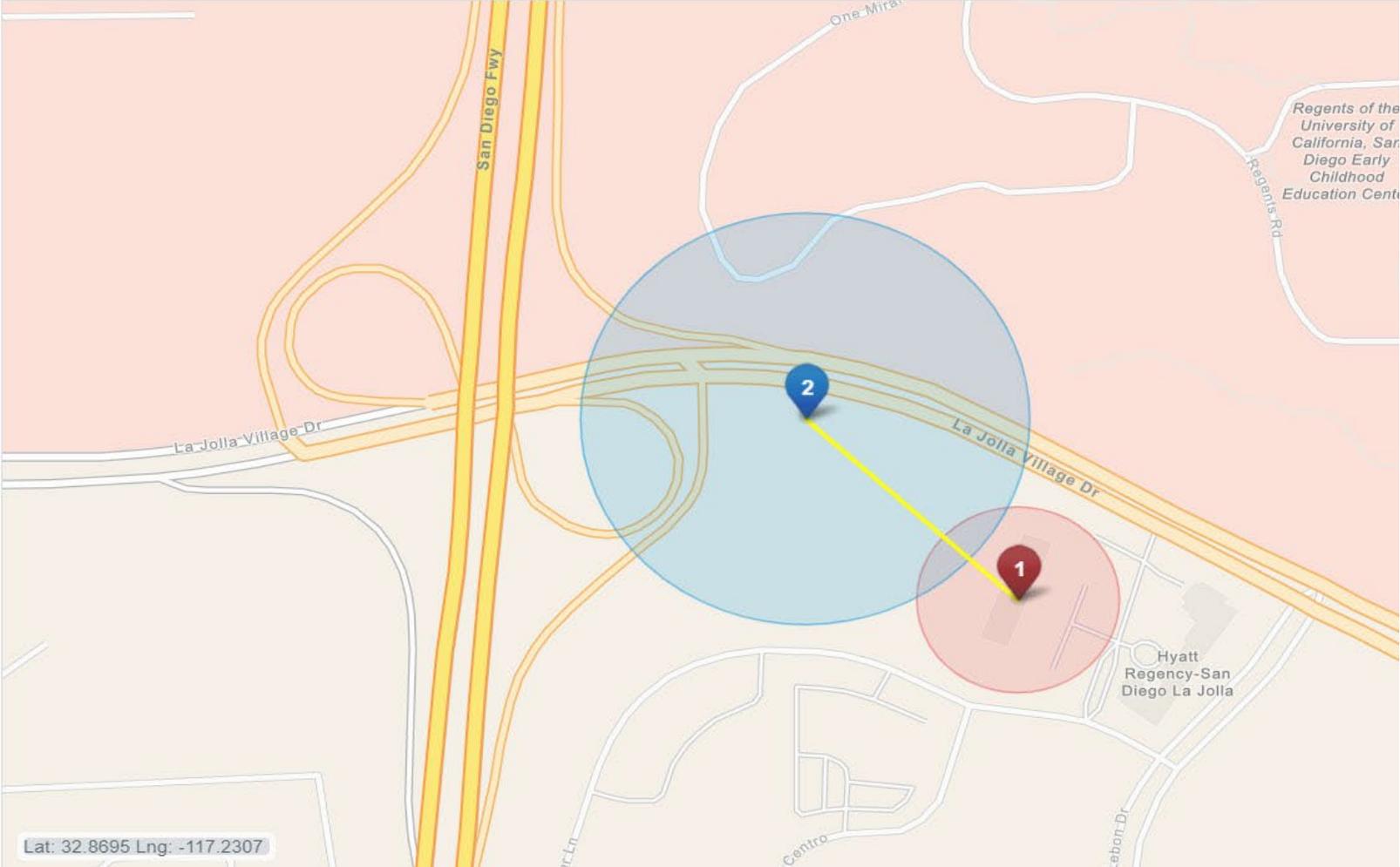
PSAPs with Clearinghouse access receive the location information in addition to the Carrier information

Radius

 **RapidDeploy** RADIUS

SEARCH
Search here - enter an address, name, previous contact

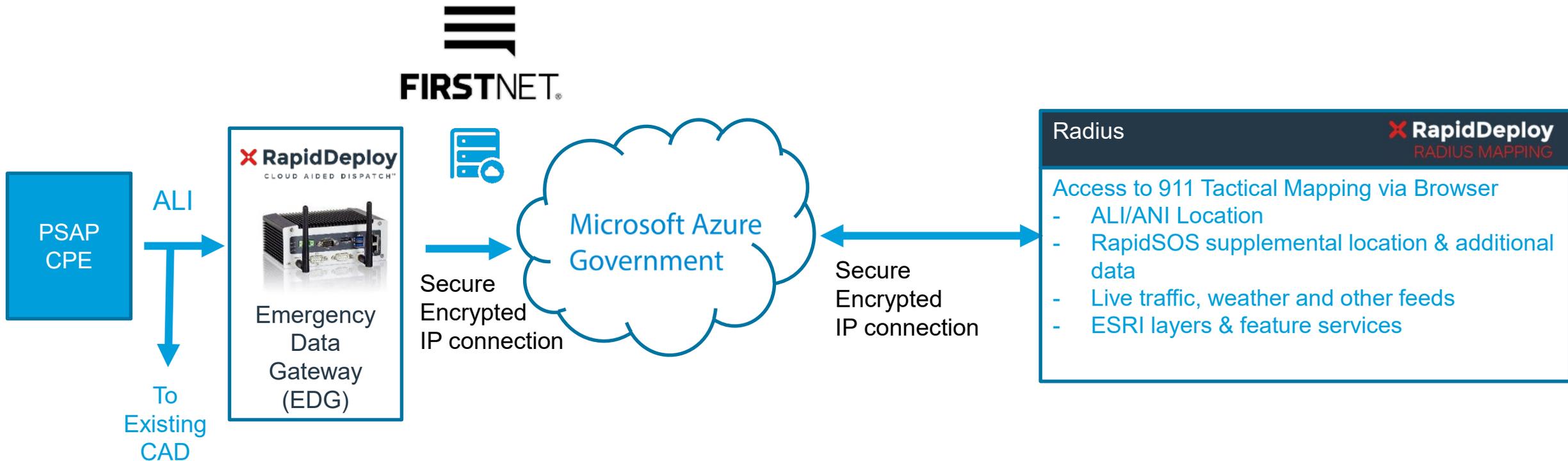
 (763) 954-0900  **RAPIDLOCATE** 3777 LA JOLLA VILLAGE DRIVE, SAN DIEGO
CAMERA.MIXED.FEEDS **LAT/LNG** 32.8709,-117.2255 **DMS** 32° 52' 15" N,117° 13' 32" W + 8544VQCF+8Q



CALLS  **CLOSE ALL**

3777 LA JOLLA VILLAGE DRIVE, SAN DIEGO	(763) 954-0900	CLOSE
8910 UNIVERSITY CENTER LANE, SAN DIEGO	(336) 669-4475	CLOSE

Radius in the PSAP





**We want to provide
you a Live Demo**



Thank you!

MOBILIZING
YOUR
WORLDSM



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