



**REGIONAL PLANNING
AND ADVISORY COMMITTEE**



NGA 911

CONFIDENTIAL PRESENTATION
March 2, 2021

WWW.NGA911.COM



Darold Whitmer

Senior Vice President of Strategic Relationships
(NGA 911 Overview)

NGA 911 Overview

- **550+ Years Experience in 9-1-1**
 - 150+ years NG9-1-1 Experience
- **\$200M+ Contracts**
 - Business to Government
 - Including California - Largest US Contract
 - 9-1-1 Association of Central Oklahoma Governments (9-1-1 ACOG)
 - California SCOUT
 - California Community Isolation
- **Technology Platform**
 - AWS Partner
 - Scalable, Reliable, Resilient, Secure, and Agile
- **Intellectual Property**
 - Patents Issued
 - 2019: Brain of NextGen 9-1-1
 - 2014: Personal Emergency Response

NGA 911 LLC brought Cloud Computing to 9-1-1, offering the Next Generation of 9-1-1 service across North America. In this next generation of 9-1-1, caller location will be known, calls will be routed directly to the authorized call center, video and RTT will be enabled.

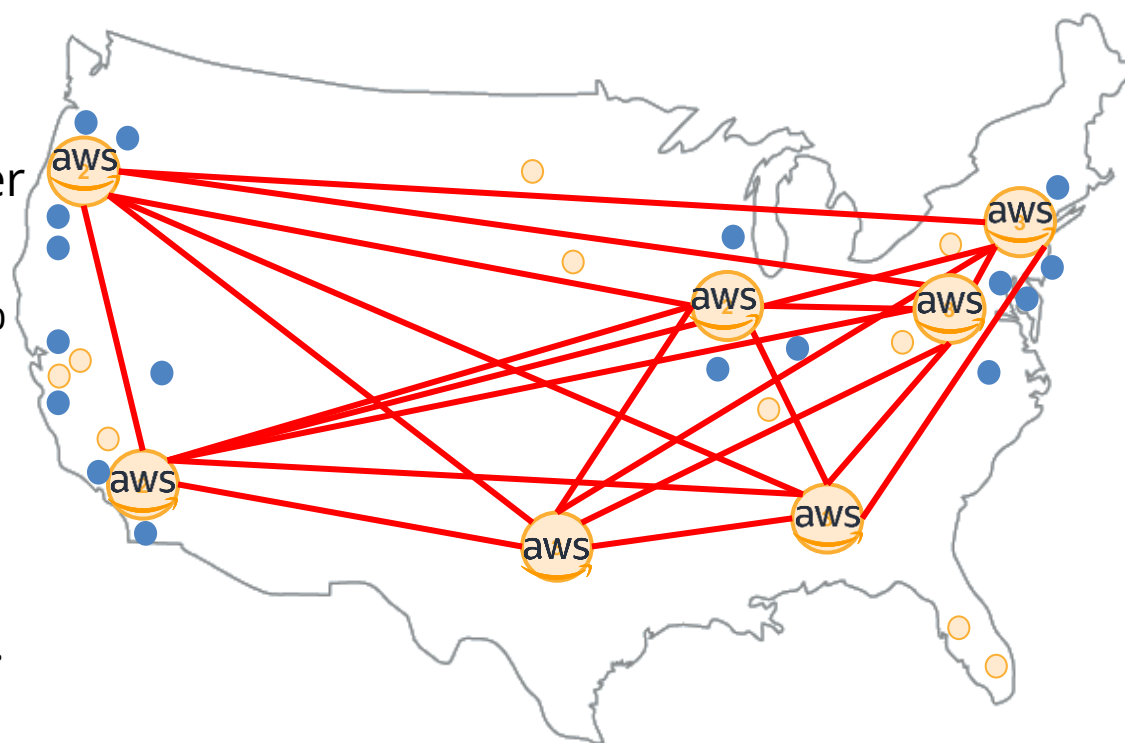


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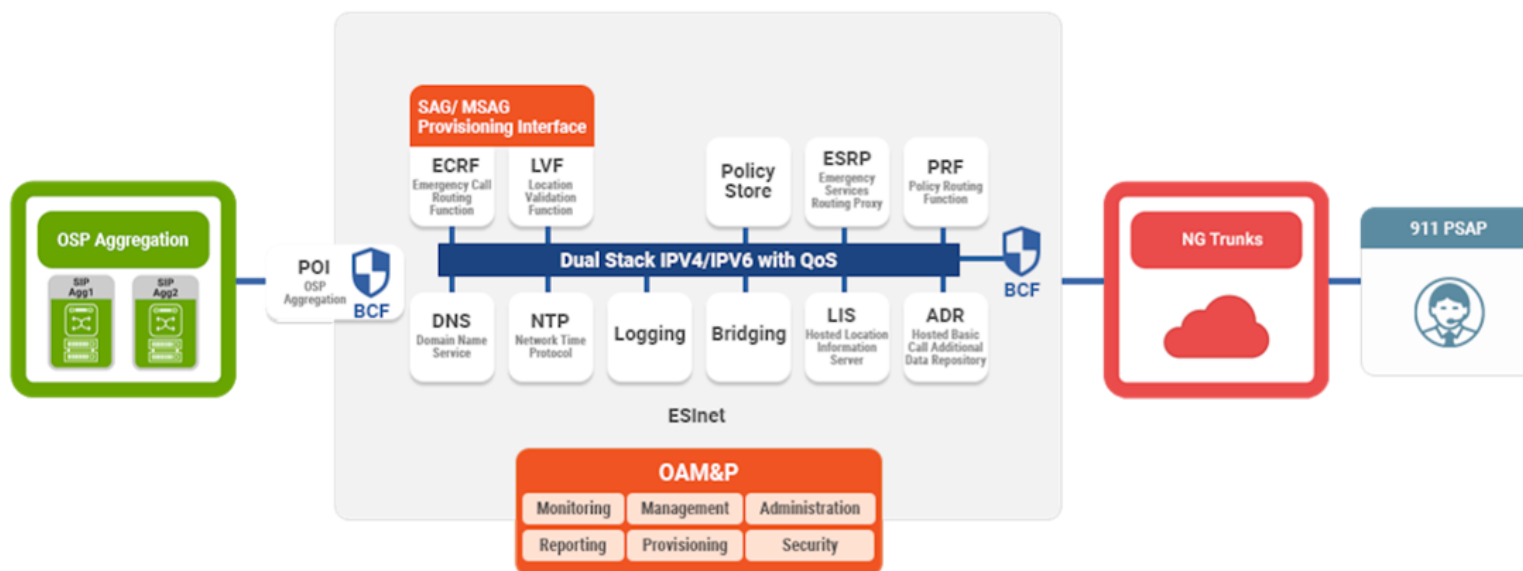
NGA 911 Cloud Partner

- Definitive leader in cloud services.
- Definitive leader in data center infrastructure
- NGA 911 has built a 99.999+% available, Public Safety grade, solution on the AWS infrastructure.
- Integral part of our Cybersecurity response team.



Network Infrastructure

NGA 911 NGCS



NGCS – Next Generation Core Service

ESInet – Emergency Services IP Network

ESRP – Emergency Services Routing Proxy

LIS – Location Information Server

LVF – Location Validation Function

BCF – Border Control Function

OSP – Originating Service Provider

SIP – Session Initiation Protocol

IP – Internet Protocol

ECRP – Emergency Services Routing Proxy

LNG – Legacy Network Gateway

LSRG – Legacy Selective Routing Gateway

LPG – Legacy PSAP Gateway

More...

NGA 911 SOLUTION

- NENA i3 Standard Compliant
- Non-intrusive Scalability
- 99.999+% Availability for NGCS and ESInet
- Federal Level Cybersecurity
- 24x7 Monitoring and Support
- Agile: New Features & Functionality when available and as required



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HIGH AVAILABILITY END TO END SOLUTION FOR NG9-1-1

9-1-1 systems must be designed, architected, implemented and operated to meeting standards for high availability, reliability, and resiliency.

A public safety grade highly available system is considered to provide 99.999% availability in a year.

9

35 Days

9.

4 Days

9

8 Hours

9

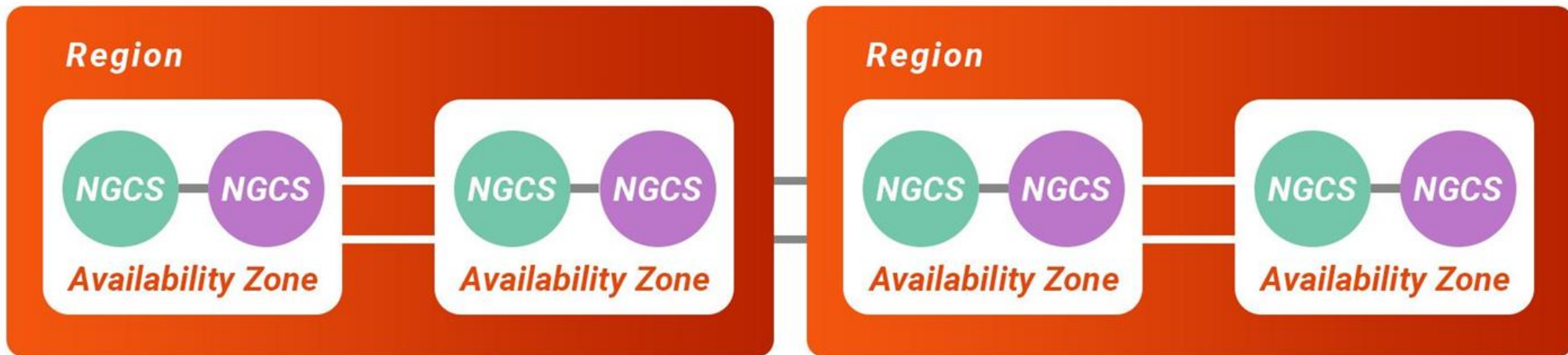
50 Minutes

9

5 Minutes

%

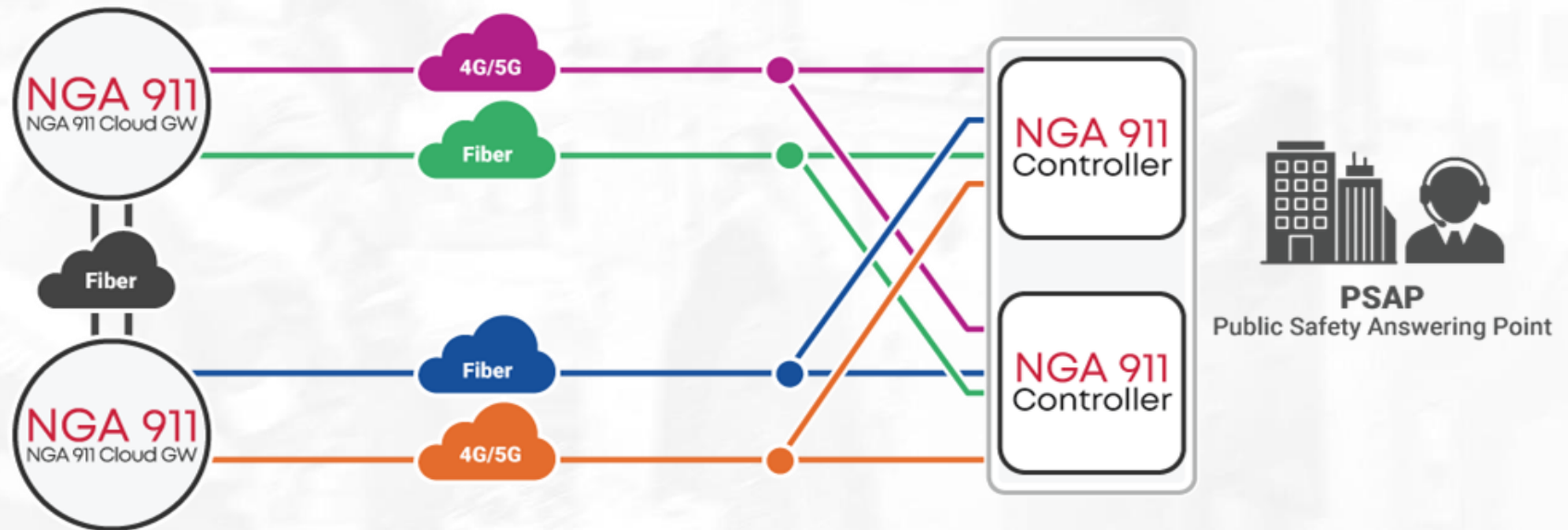
NGA 911 NEXT GENERATION CORE SERVICES



NGCS	Non Redundant 1 AZ		Redundant 2 AZ	
Functional Element	Signaling	Media	Signaling	Media
AWS Data Plane	99.999%	99.999%	>99.999%	>99.999%
BCF	99.99%		>99.999%	
ESRP	99.95%	99.95%	>99.999%	>99.999%
ECRF	99.95%		>99.999%	
LVF	99.95%		>99.999%	
	99.84%	99.95%	>99.999%	>99.999%

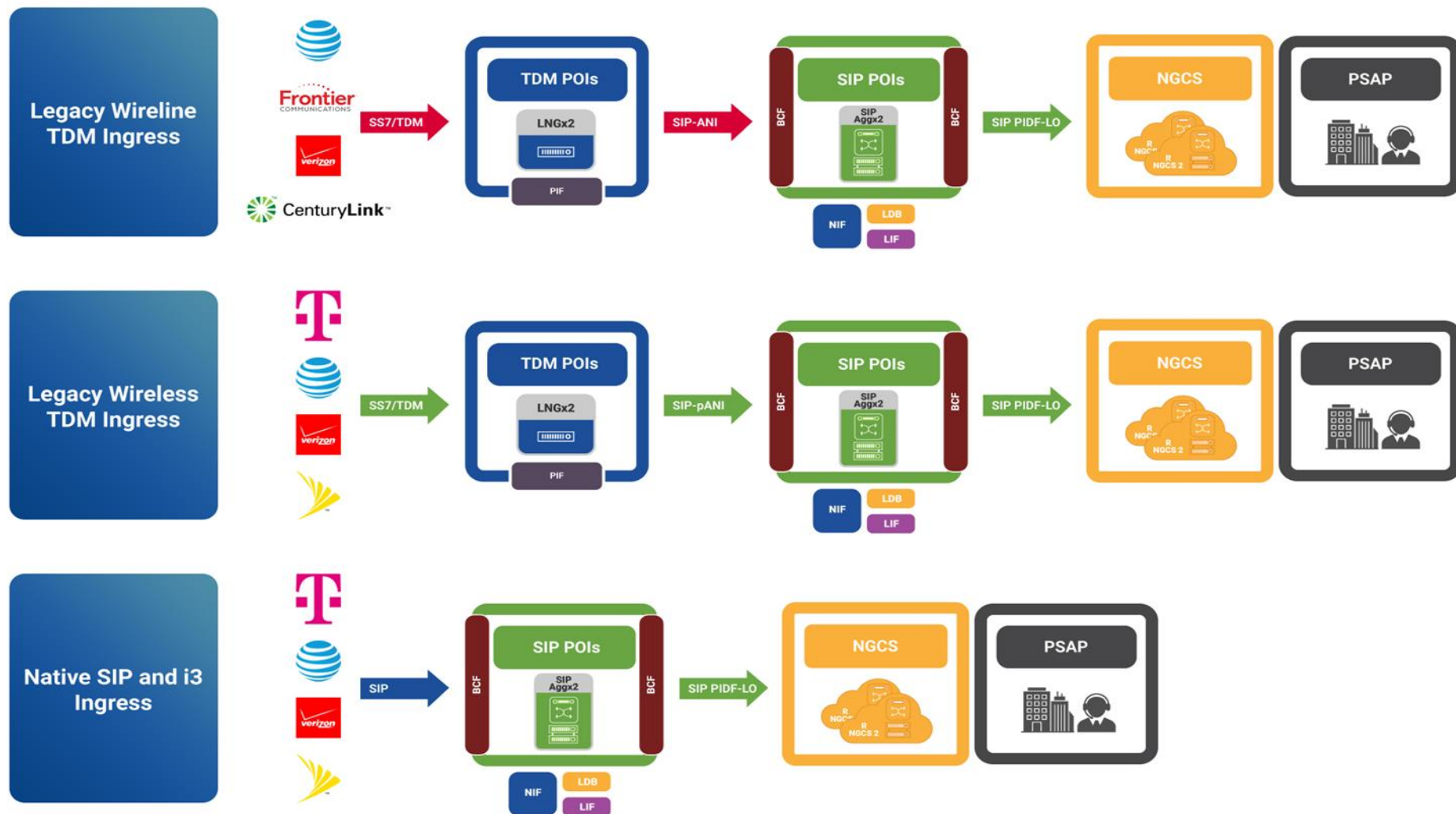
- NGA 911's non-proprietary NGCS
- NENA i3 compliant
- Dedicated to the State of Oklahoma

NEXT GENERATION TRUNKS - ESI^{net}



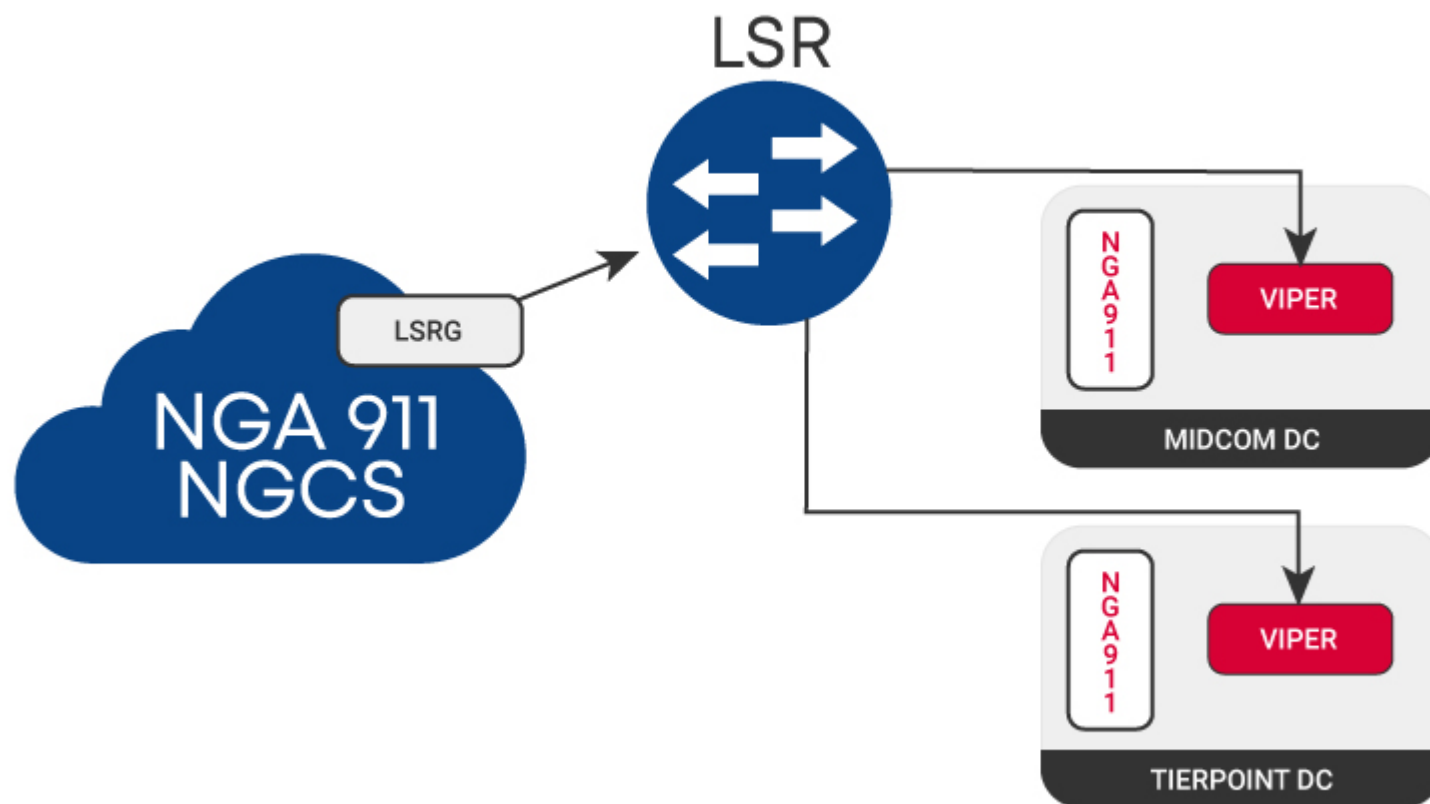
- Resilient multipath connectivity
- No loss of call with a single or up to 3 path failures
 - All 4 paths carry the same call!
- Packet duplication for superior resiliency and voice quality

OSP Ingress Facilities



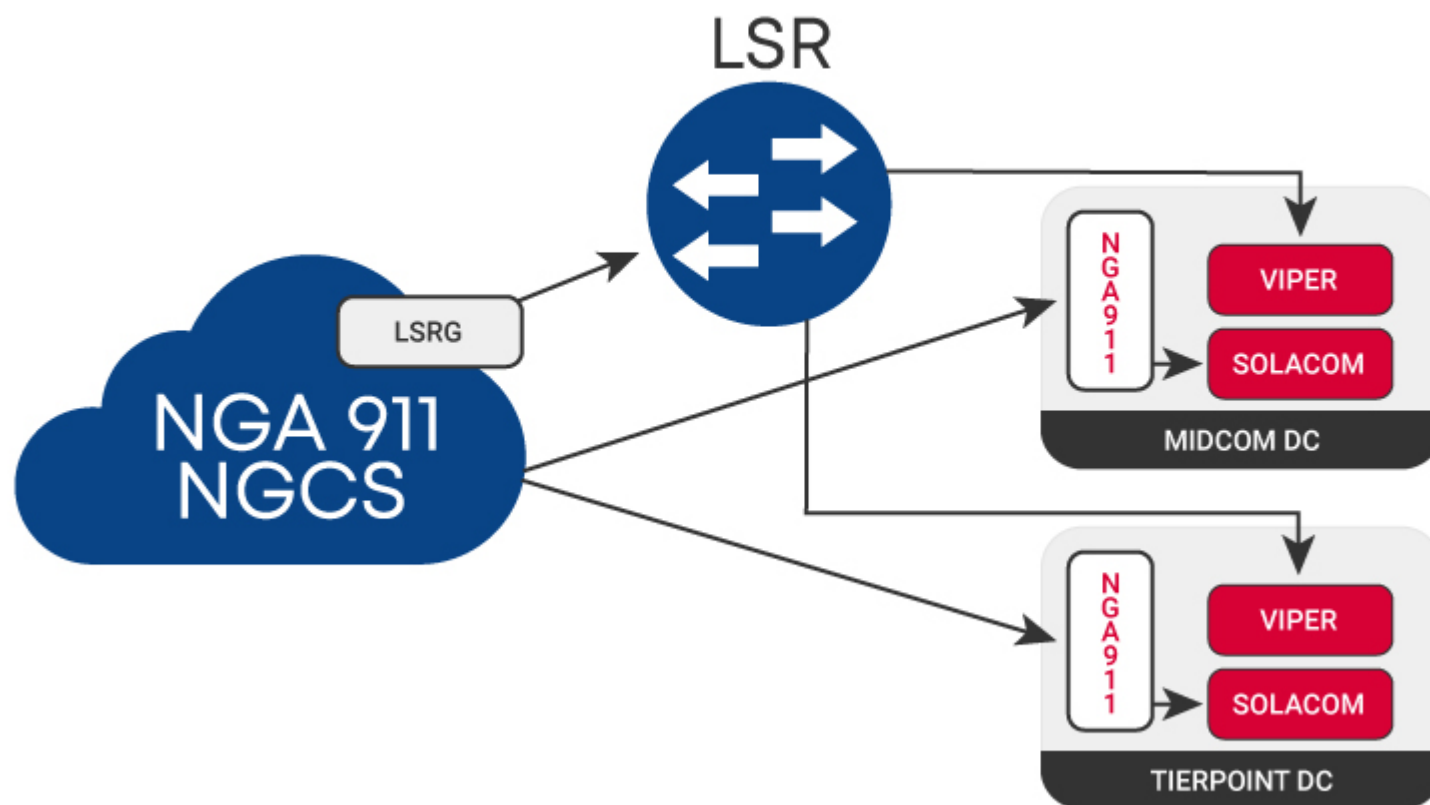
Transition - No Solacom

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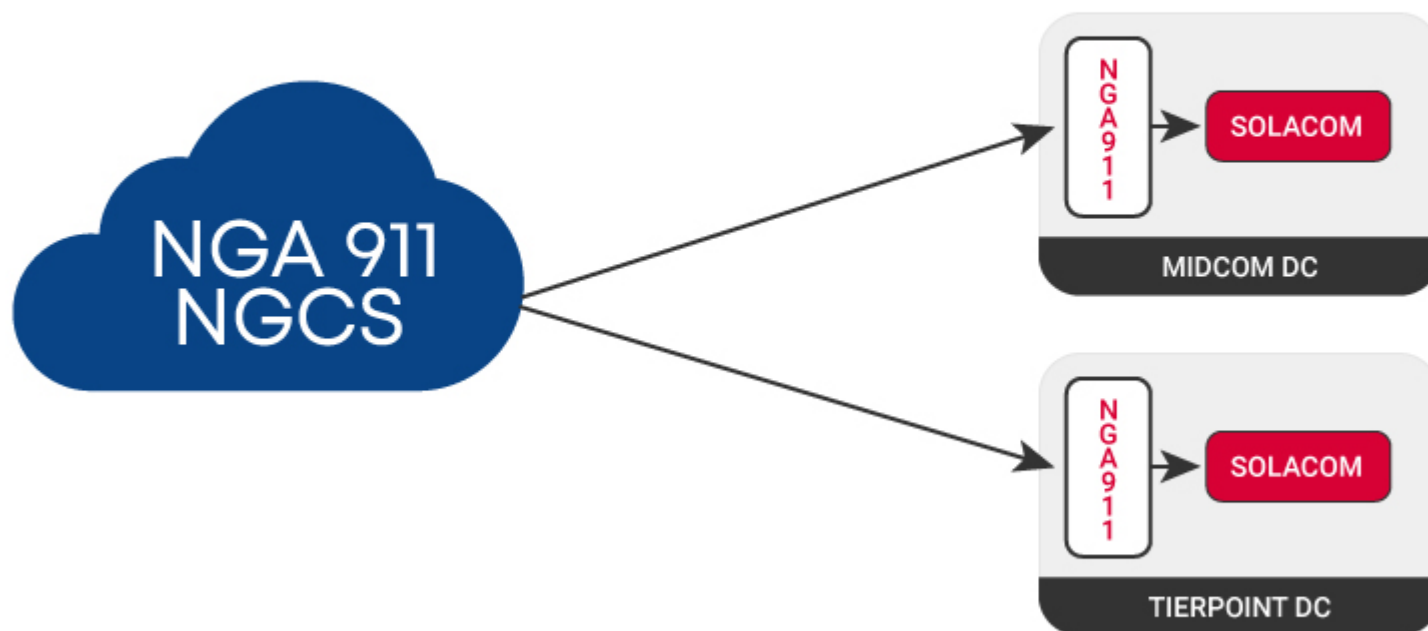
Transition - Solacom in Process

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Solacom - Full Transition

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Michelle Bland

Chief Operating Officer (COO)

(9-1-1 ACOG Deployment Status)

Deployment Status

Contract Executed:	10/13/2020		
Draft Plans Approved:	12/7/2020		
Site Surveys:	12/3/2020		
Interconnect Agreements:	Complete		
Coordination with OSPs:	In progress		
Data Center Confirmed:	Tierpoint 2/25	MidCon	2/15
NG Trunk Due Date:	Coming Soon		
Equipment Configuration:	In Progress		
Equipment Install: Training	Will be scheduled with NG Trunk Installation - 911 ACOG Smart Hands		
Solacom IOT:	In Progress		
911 ACOG Lab:	4/15/2021		

QUESTIONS

Q & A

ANSWERS

THANK YOU!

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