

NG 9-1-1 and Emergency Communications NAPCO August 2021

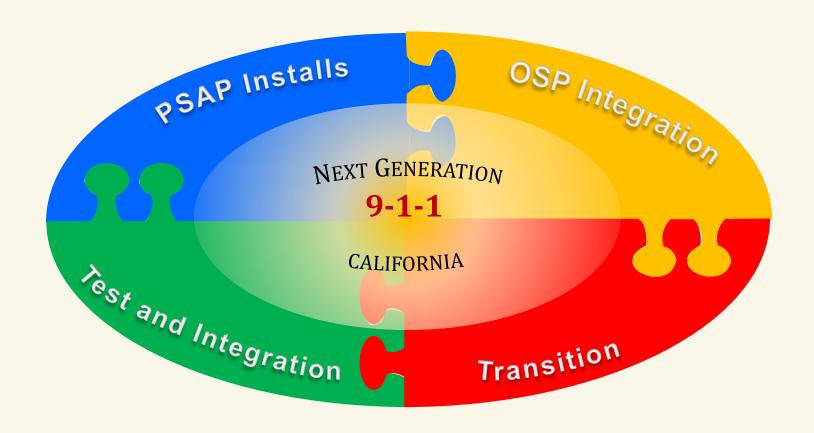


Discussion Overview

- NG 9-1-1 Update and Overview
- Outage Reporting
- NG 9-1-1 Alert and Warning Update
- Emergency Communications How does Cal OES work with local agencies?

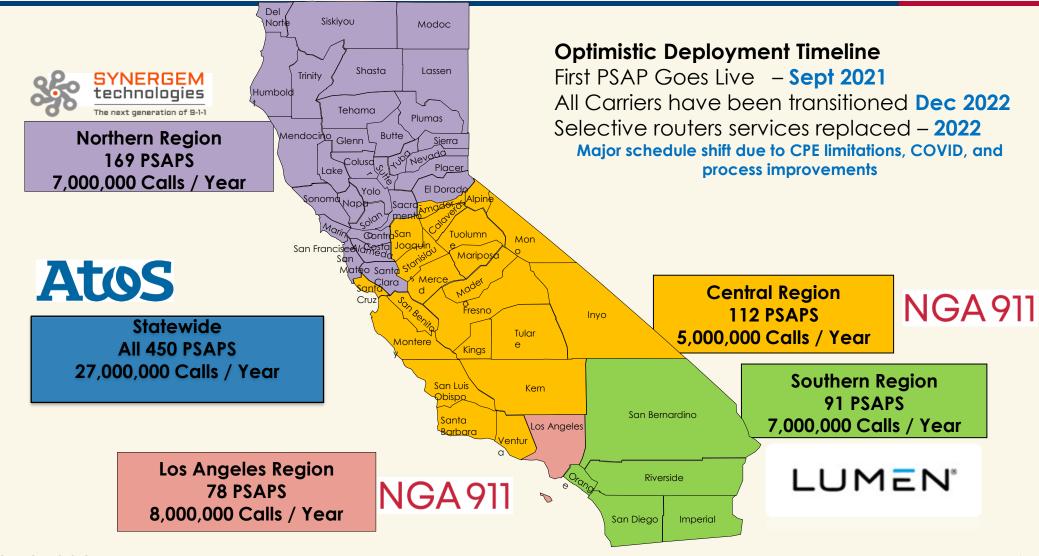


Next Gen 9-1-1 Update



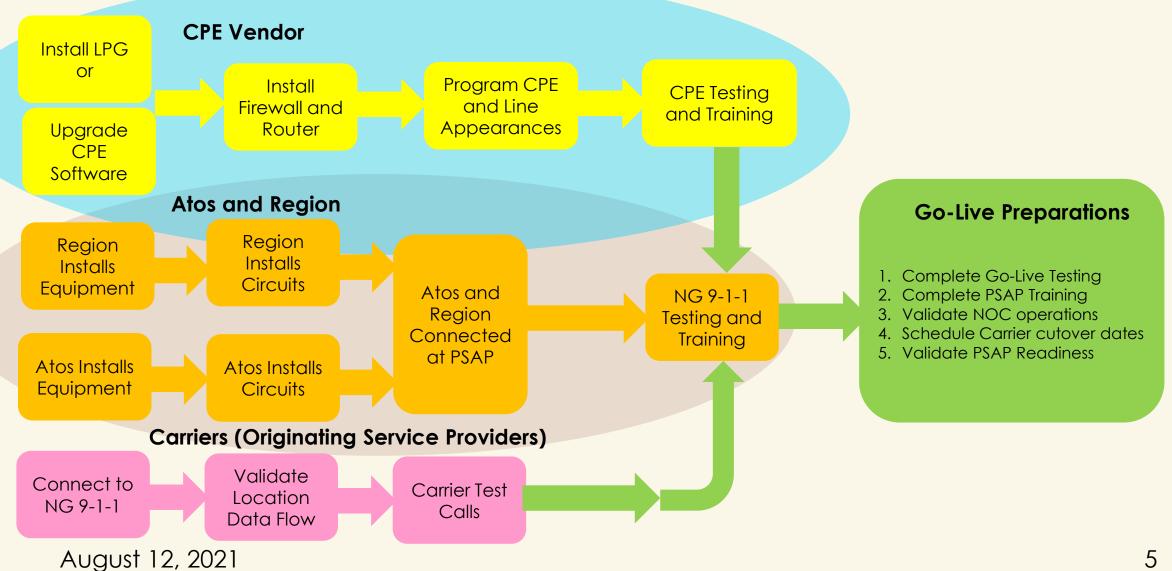


Next Gen 9-1-1 Deployment





PSAP Installs Preparing for NG 9-1-1 Go-Live





Item 5-4: PSAP Install Status

NG911 Deployment PSAP Dashboard Technical Information

https://www.caloes.ca.gov/PublicSafetyCommunicationsSite/Documents/DashboardInfo.pdf

NG911 Deployment PSAP Dashboard

https://calema.maps.arcgis.com/apps/dashboards/edccc14f232640c4b53a65e946880568

Live Demo



- 1. Period of 2 weeks with no network or system changes
- 2. Validation by dispatchers in each of the PSAPS in the transfer cluster that CPE can answer, transfer, and display NG 9-1-1 calls properly
- 3. PSAP training completed and verified
- 4. Validation of the PSAP "Alternate Route" process
- 5. Validation of the trouble ticket and Network Operation Center activities
- 6. Validation of ability to deliver test calls from carrier
- 7. Validation of ability to send ANI / ALI or Location data to CAD



Go-Live Schedule

- There has been a delay in the Go-Live Schedule due to:
 - 1. CPE is unable to support all NENA i3 functions
 - 2. NGCS providers have had to develop code changes for CPE
 - 3. NGCS providers have been completing "Day 2 Support" activities
 - 4. Impacts on supply chain and resources due to COVID-19
 - 5. Delivery of location information needed to support operations and CAD
 - 6. An NG 9-1-1 project of this scope and scale has never been attempted



OSP Integration Selective Router Transition

Phase	Selective Router Name	PSAP Region	PSAPs with Circuits
1	EL CENTRO	Southern	5
1	PLACERVILLE NIAGARA	North	6
1	SONORA	Central	4
2	BARSTOW	Southern	14
2	BUNDY	LA	18
2	JACKSON	Central	6
2	LAKEPORT	North	3
2	MARYSVILLE	North	9
2	MILL VALLEY	North	7
2	PALM SPRINGS	Southern	22
2	SANTA CRUZ MAIN	Central	6
2	SEPULVADA	LA	21
2	THOUSAND OAKS	Central	9
2	UKIAH	North	9
3	CHICO	North	23
3	EUREKA	North	10
3	FRESNO MAIN	Central	26
3	HOLLYWOOD	LA	29
3	MADISON	LA	2
3	NORTHRIDGE	LA	2
3	RIALTO	Southern	17
3	RIDGECREST	Central	14
3	San Diego MIRA MESA	Southern	26
3	SAN GABRIEL	LA	44
3	VALLEJO	North	16
3	VISALIA	Central	14
3	WATERMAN	LA	48
3	WESTMINSTER	LA	31

Phase	Selective Router Name	PSAP Region	PSAPs with Circuits
4	LA PUENTE	LA	23
4	LAS POSITAS	Central	13
4	MILLBRAE	North	19
4	MODESTO MAIN	Central	27
4	ORINDA	North	36
4	SAN ANDREAS	Central	7
4	SAN LUIS OBISPO	Central	10
4	SANTA ANA	Southern	35
4	SANTA CLARA	North	26
4	SHERMAN OAKS	LA	23
4	UPTOWN	LA	45
4	VENTURA FIR	Central	11
5	AUBURN	North	18
5	BAKERSFIELD MAIN	Central	18
5	REDDING ENTERPRISE	North	14
5	SACRAMENTO MAIN	North	22
5	SALINAS MAIN	Central	10
5	SANTA ROSA	North	14
5	STOCKTON MAIN	Central	19

Goal is to complete transition by Dec of 2022

Legislative deadline is Dec 2022



Lesson Learned: Working with PSAPs to Support 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



Statewide Cloud-Native CPE

- All new CPE sales have been suspended until CPE passes contract compliance, current barriers include, but may not be limited to:
 - Internet Protocol, Version 6 (IPV6) and Transport Layer Security (TLS) needed for the Private Key Infrastructure
 - Unique IP address needed to dereference a NENA i3 call for a carrier-maintained Location Information Service
 - Element state and queue state in native NENA i3, which are needed to support dynamic policy routing
 - Inability to support Real Time Text (RTT)
 - Inability to support conferencing, using REFER
 - 13 logging for all calls (Most CPE vendors)
- The NG 9-1-1 service providers (Atos, Lumen, NGA 9-1-1 and Synergem) have put in "work arounds" to
 ensure that the CA NG 9-1-1 system can interface with CPE

Your CPE vendor is required to support the existing ANI/ALI spill to CAD and CDR



Statewide Cloud-Native CPE

- Full NG 9-1-1 implementation will require PSAPs to move to Cloud Native / Data Center CPE using the vendors
 on the new CPE contract
- The recommendation is to wait to upgrade your CPE until cloud CPE solutions are available
 - AT&T reselling Rapid Deploy Cloud, Motorola Cloud, Viper Cloud, and Viper Data Center
 - Atos GEMMA Cloud
 - Carbyne Cloud
 - Carousel reselling Motorola Cloud
 - Lumen reselling Motorola Cloud, Viper Data Center, and Omni911 Cloud
 - Comtech Solacom Data Center
 - Frontier reselling Motorola Cloud
 - Intrado Viper Data Center, and Viper Cloud
 - Motorola Cloud
 - NGA911 cloud CPE
 - RapidDeploy Cloud
 - Zetron Data Center
- Cal OES is working to complete the cloud CPE testing for those highlighted in yellow



Text to 9-1-1 Deployment

Text to 9-1-1 Status	Quantity
PSAPs deployed with Web Based OTT	302
PSAPs pending deployment of Web Based OTT	0
PSAPs deployed with Integrated Text	134
PSAPs pending deployment of Integrated Text	1
Total PSAPs deployed (99% completed)	436
Total PSAPs	437



California Assembly Bill 1168 Mandated Text to 9-1-1 by January 1, 2021

Contact Chereise Bartlett @ 916-894-5030 or chereise.bartlett@caloes.ca.gov



Location Accuracy and Validation Project

- All PSAPs are active with RapidDeploy
- All Over the Top text PSAPs must start using RapidDeploy to ensure familiarity with the platform
- All PSAPs have been updated to RadiusPlus
 - Includes an SMS text from 9-1-1 capability
 - Integration of data from OnStar is now available
 - All Over the Top text solutions will be migrated to RapidDeploy beginning in August of 2021.
- Any questions, Cal OES Project Manager:
 - Curt Guillot @ 916-894-5035 or curt.guillot@caloes.ca.gov
- For RadiusPlus access, Customer Success Manager:

Mel Bland Melven.Bland@rapiddeploy.com



SB 670 Outage Reporting

- Staff on call 24/7/365 <u>CA911outages@caloes.ca.gov</u>
- Approved regulations are posted on Cal OES website
 - www.caloes.ca.gov/sb670
- Cal OES is notified via email when:
 - 100 or more users in single ZIP Code or 50% if under 100 per ZIP Code have an outage (Wireline and VoIP)
 - 50% or more coverage degradation in an ZIP Code (Wireless)
- Data is made available to PSAP, Sheriff and Emergency Managers



- Atos is working with subcontractor (Everbridge) to deploy an Alert and Warning solution
- Atos demonstrated compliance with contract in July of 2021
- The deployment process will begin in August of 2021
 - Priority is being given to those agencies with expired contracts, and those agencies in Tier 3 and Tier 4 fire areas

Contact <u>Michael.Elder@caloes.ca.gov</u> for further information



Emergency Support Function #2 – Communications (CA-ESF2) Overview

- CA-ESF2 coordinates status of communication systems and facilitates providing resources needed to sustain and restore the public communications infrastructure
 - Assists State, tribal, and local governments with emergency communications (TACCOM Deployable Comm Assets)
 - Assists with restoration of public safety communications systems and first responder networks
 - Informs local and state agencies to affect sound decision making
- All information requests are urgent unless otherwise indicated
- Contact Information:

EF2@caloes.ca.gov

<u>Activated in SOC</u> 916-845-8546

24/7/365 CSWC 916-845-8911



Any Questions

Shelly McMahon
Broadband Services Unit Supervisor
Shelly.McMahon@caloes.ca.gov

EF2@Caloes.ca.gov

Budge Currier CA 9-1-1 Emergency Communications Budge.Currier@caloes.ca.gov