

REGISTRATION NUMBER
AGREEMENT NUMBER

PURCHASING AUTHORITY NUMBER (if applicable)
--

- This Agreement is entered into between the Contracting Agency and the Contractor named below:  
 \_\_\_\_\_  
 CONTRACTING AGENCY NAME  
 \_\_\_\_\_  
 CONTRACTOR NAME
- The term of this Agreement is: Start Date: \_\_\_\_\_  
 End Date: \_\_\_\_\_
- The maximum amount of this Agreement is: \$ \_\_\_\_\_

4. The parties agree to comply with the terms and conditions of the following exhibits which are by this reference made a part of the Agreement:

EXH	TITLE	PAGES

Signature on file

*Items shown with an asterisk (\*) are hereby incorporated by reference and made part of this agreement as if attached hereto. These documents can be viewed at <https://www.dgs.ca.gov/PD/Resources/Page-Content/Procurement-Division-Resources-List-Folder/Model-Contract-Language>*

IN WITNESS WHEREOF, this Agreement has been executed by the parties hereto.

<b>CONTRACTOR</b>		<b>Department of Technology, Statewide Technology Procurement Use Only</b>
CONTRACTOR NAME <i>(If other than an individual, state whether a corporation, partnership, etc.)</i>		
CONTRACTOR AUTHORIZED SIGNATURE	DATE SIGNED	
PRINTED NAME AND TITLE OF PERSON SIGNING		
ADDRESS		
<b>STATE OF CALIFORNIA</b>		
CONTRACTING AGENCY NAME		<input type="checkbox"/> Exempt per_
CONTRACTING AGENCY AUTHORIZED SIGNATURE	DATE SIGNED	
PRINTED NAME AND TITLE OF PERSON SIGNING		
CONTRACTING AGENCY ADDRESS		

## EXHIBIT A, STATEMENT OF WORK

### 1 BACKGROUND AND PURPOSE

The Governor's Office of Emergency Services (Cal OES), Public Safety Communications, CA 9-1-1 Emergency Communications Branch (CA 9-1-1 Branch) is authorized by statute Government Code (GC) Sections 53100-53121 to manage and oversee the statewide 9-1-1 emergency communications system. The authority to oversee the expenditures of State Emergency Telephone Number Account (SETNA) funds is provided in the California Department of Finance's Manual of State Funds, 0022. The CA 9-1-1 Branch is responsible for administering the SETNA which provides funding to California Public Safety Answering Points (PSAPs) for 9-1-1 systems and services. Guidance for filing 9-1-1 tariffs is provided by the California Public Utilities Commission (CPUC) and can be found at:

[http://www.cpuc.ca.gov/uploadedFiles/CPUC\\_Public\\_Website/Content/Utilities\\_and\\_Industries/Communications\\_-\\_Telecommunications\\_and\\_Broadband/Service\\_Provider\\_Information/911%20Tariff%20Filing%20Text%20for%20CD.pdf](http://www.cpuc.ca.gov/uploadedFiles/CPUC_Public_Website/Content/Utilities_and_Industries/Communications_-_Telecommunications_and_Broadband/Service_Provider_Information/911%20Tariff%20Filing%20Text%20for%20CD.pdf)

The Next Generation 9-1-1(NG9-1-1) services in California will follow the National Emergency Number Association (NENA) i3 Call Flow per Figure 1 in NENA-STA-010.2-2016 [https://cdn.ymaws.com/www.nena.org/resource/resmgr/standards/NENA-STA-010.2\\_i3\\_Architectu.pdf](https://cdn.ymaws.com/www.nena.org/resource/resmgr/standards/NENA-STA-010.2_i3_Architectu.pdf) NENA Detailed Functional and Interface Standards for the NENA i3 Solution. Each region shall provide NENA i3 call flow to support interoperability between their Region and the Prime. The Prime shall have the overall management and direction for consistency of call flow, as defined in the SOW and EXHIBIT 21 – TECHNICAL REQUIREMENTS.

The Prime Network Service Provider (PNSP) and Regional Network Service Provider (RNSP) shall provide services that meet National Emergency Number Association (NENA) Next Generation 9-1-1 (NG9-1-1) requirements and standards available upon contract award, and as they become available in the future within 6 months of CA 9-1-1 Branch notification of any future updates to the NENA i3 standard, at no additional cost to the CA 9-1-1 Branch. Contractor shall provide an annual compliance report stating how they meet all applicable standards.

Additional resource documents for the (PNSP) to reference:

- CA 9-1-1 Branch Operations Manual <http://www.caloes.ca.gov/cal-oes-divisions/public-safety-communications/ca-9-1-1-emergency-communications-branch>

- Federal Communications Commission (FCC) best practices:

<https://www.fcc.gov/best-practices>

The general 9-1-1 traffic flow will be to aggregate 9-1-1 traffic in each region. The RNSP shall aggregate, process and deliver all 9-1-1 traffic from AT&T, Consolidated Communications wireline and Frontier wireline, and all wireless Originating Service Providers (OSPs) to the correct PSAP.

The PNSP shall aggregate, process and deliver all small Local Exchange Carriers (LECs), Voice over Internet Protocol OSPs (VoIP OSPs) and Text to 9-1-1 traffic to the correct PSAP. The PNSP shall also deliver 9-1-1 traffic from RNSP to the correct PSAP in the event the RNSP cannot deliver the 9-1-1 traffic for any reason.

The 9-1-1 traffic will be anchored at aggregation until verification of the ability for the regional NG9-1-1 core services to deliver the 9-1-1 traffic. In the event that the regional NG9-1-1 Core Services cannot deliver the 9-1-1 traffic, the 9-1-1 traffic will be passed to the Prime NG9-1-1 Core Services for routing and delivery to the PSAP by the PNSP. The assumption is that all 9-1-1 traffic that arrives at PNSP aggregation will be delivered by the PNSP under normal conditions and all 9-1-1 traffic that arrives at the RNSP aggregation will be delivered by the RNSP under normal conditions. In the event 9-1-1 traffic is passed to a region that should be delivered by another region, the region will pass the 9-1-1 traffic to the PNSP for routing and delivery to the PSAP. In the event 9-1-1 traffic cannot be delivered to a PSAP by the PNSP, the PNSP shall pass the 9-1-1 traffic to the correct RNSP to deliver to the PSAP.

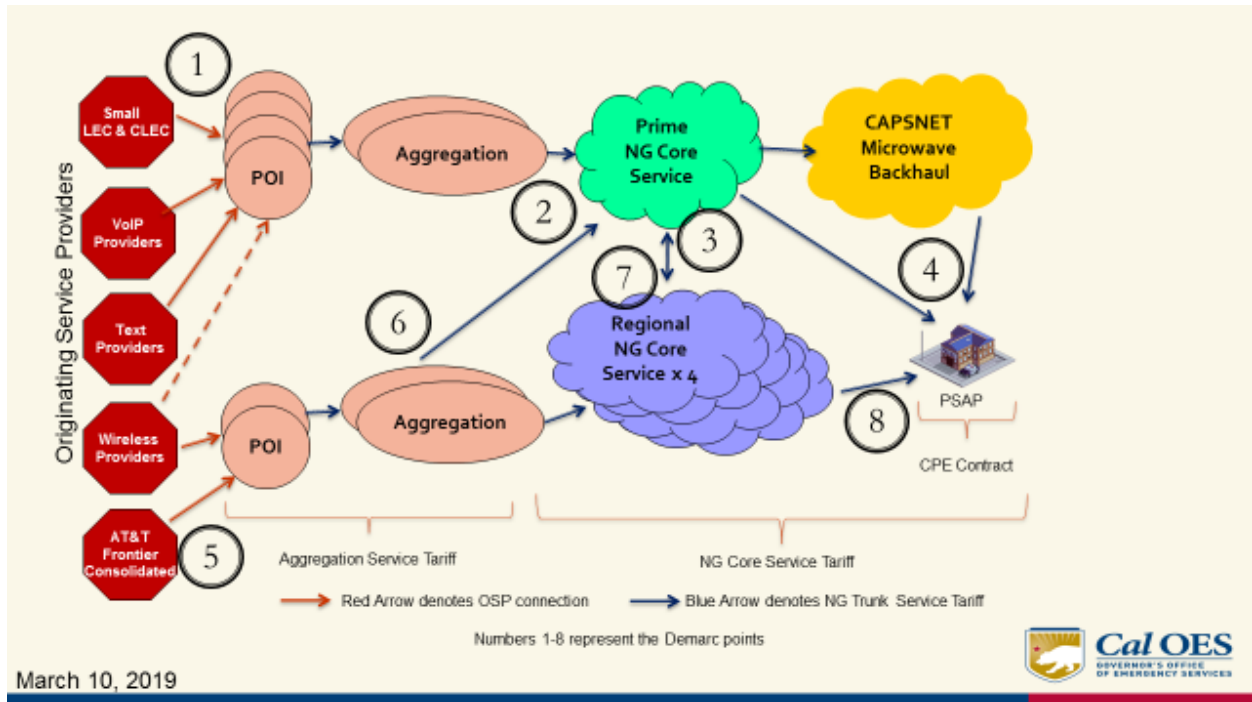


FIGURE 1: NEXT GENERATION 9-1-1 TARIFF SCHEME

Demarc number	Prime Network Service Provider Demarc description
1	Small LEC, Text, and VoIP OSPs
2	Aggregation to Prime NGCS
3	From Prime NGCS to Regional NGCS (will require demarc for each RNSP)
4	Prime NGCS to all PSAP statewide
Demarc number	Regional Network Service Provider Demarc description
5	All Wireless OSPs, Consolidated Communications, AT&T, and Frontier
6	From Regional aggregation to Prime NGCS (will require demarc from each RNSP to Prime NGCS)
7	From Regional NGCS to Prime NGCS (will require demarc from each RNSP to Prime NGCS)
8	From Regional NGCS to PSAP within region

The Warren 9-1-1 Emergency Assistance Act, Government Code 53100-53120 modified in 2015 by Senate Bill SB1211, requires the Cal OES, CA 9-1-1 Branch to implement Next Generation 9-1-1 (NG9-1-1) including Text to 9-1-1 in California. With the increased use of text by the general public, Text to 9-1-1 will provide an immediate and crucial method beyond existing video relay, 7-1-1 relay, and IP relay to allow the deaf, disabled and hard of hearing community to receive emergency service when needed and provide an alternate method for those without speech or with hearing disabilities to contact 9-1-1.

The FCC, through agreement with the four (4) major wireless carriers (AT&T, Sprint, T-Mobile and Verizon) agreed to make Text to 9-1-1 services available in May 2014. Other wireless carriers were required to make text available by January 2015.

Since 2014, California has proactively participated in trials to accommodate the FCC agreement with wireless carriers to provide Text to 9-1-1 services to meet California's emergency response needs.

The CA 9-1-1 Branch currently has a Text to 9-1-1 Services contract in place that will expire April 2020. As of January, 219 there are 286 PSAPs currently have deployed or are in the process of deploying Text to 9-1-1 Services, 244 are web based text and 42 are integrated into the PSAP's Customer Premise Equipment (CPE). A transition from the existing Contract shall take as soon as possible after contract execution and based on the Project Deployment Plan (PDP).

## **1.1 OBJECTIVE**

This Statement of Work (SOW) shall be the Contract between the CA 9-1-1 Branch and the Contractor to provide the Prime NG9-1-1 Services that will connect to every PSAPs in California and that will interconnect the four (4) Regions. All Prime NG9-1-1 services shall be purchased off of Tariffs. The Contractor shall provide service to process 9-1-1 traffic, which shall include voice and data to the appropriate PSAPs.

This SOW shall also be the Contract between the CA 9-1-1 Branch and the Contractor to provide the Regional NG9-1-1 Services that will connect to every PSAP in a specific Region in California. All Region NG9-1-1 services shall be purchased off of Tariffs. The Contractor shall provide service to process 9-1-1 traffic, which includes voice and data, to the appropriate PSAPs in the awarded region. Throughout this SOW a distinction will be made when SOW requirements apply only to a Region or to the Prime. When not delineated or where there may be ambiguity, the requirements apply to both a Region and the Prime.

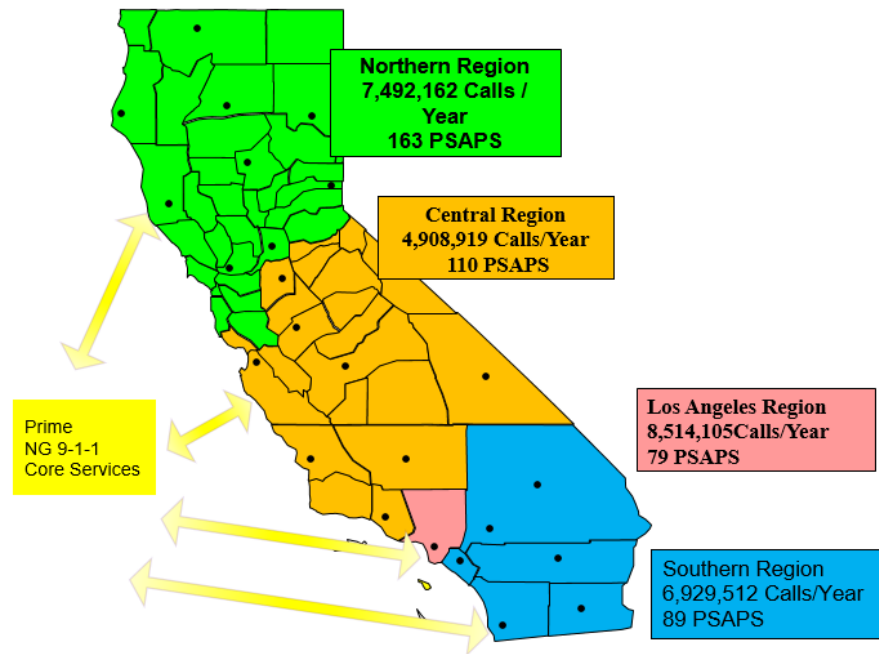


FIGURE 1.1 NEXT GENERATION PRIME JURISDICTION MAP

The Text to 9-1-1 service shall be available to all (approximately 440) primary and secondary PSAPs in California and accommodate every PSAP deployment method. Any Text to 9-1-1 sessions shall be available by Web Browser, Integrated, and Prime NG Core Services to a PSAP that integrate with a Host-Remote Configuration, or Stand Alone environment.

The Prime Contractor shall provide NG9-1-1 Prime Network Services which will include a connection to every PSAPs in California to deliver NG Text to 9-1-1 Services. All NG Text to 9-1-1 Services shall be purchased off of Tariffs. The Prime Contractor shall provide service to deliver Text to 9-1-1 traffic to the PSAPs. The PNSP shall be responsible for all costs associated with the network connectivity to the Text Control Center (TCC), PSAPs, and future connections. The PNSP shall not charge a connection fee for any connectivity. The PNSP shall provide system monitoring for the NG9-1-1 Trunks and all 9-1-1 traffic from aggregation to PSAP.

## 2 DESCRIPTION OF PROPOSED NEW SERVICE

### 2.1 SERVICE TO BE PROVIDED

The Prime Contractor agrees to provide Prime NG9-1-1 services in accordance with the SOW and EXHIBIT 21, TECHNICAL REQUIREMENTS. The Region Contractor agrees to provide Region NG9-1-1 services for the awarded region in accordance with the SOW and EXHIBIT 23, TECHNICAL REQUIREMENTS. The contractor agrees to standards based,

non-proprietary Prime NG9-1-1 services or Region NG9-1-1 services to be provided but not limited to:

- 1) PNSP shall manage and maintain CA 9-1-1 Statewide Geographic Information System (GIS) database;
- 2) RNSP shall integrate with the CA 9-1-1 Statewide GIS database;
- 3) PNSP shall provide Statewide network performance monitoring and oversight and provide access through dashboard that includes data pushed from RNSP to PNSP;
- 4) RNSP shall provide Regional network performance monitoring and oversight and provide access through dashboard and push data to the PNSP for statewide network monitoring;
- 5) PNSP shall provide network monitoring for all four (4) regional networks, using data provided by the RNSPs, in addition to the Prime Network and provide access through dashboard, per EXHIBIT 21: PRIME TECHNICAL REQUIREMENTS and EXHIBIT 23: REGION TECHNICAL REQUIREMENTS;
- 6) PNSP shall be solely responsible for trouble ticket reporting for all services in the Prime network to include subcontractor services. The PNSP shall develop and maintain trouble ticket e-bonding for all PNSP and RNSP trouble ticketing;
- 7) RNSP shall be solely responsible for trouble ticket reporting for all services in the awarded Region network to include subcontractor services. The RNSP shall support trouble ticket e-bonding from PNSP for trouble ticket reporting;
- 8) Prime shall interpret and implement standards and best practices with CA 9-1-1 Branch concurrence to be used by all Regions for consistency of 9-1-1 traffic between aggregation services, the Regions and Prime and established connectivity standards at each PSAP to ensure global interoperability;
- 9) RNSP shall implement standards and best practices as determined by the Prime with CA 9-1-1 Branch concurrence to be used by the awarded Region for consistency of 9-1-1 traffic between aggregation services, the Regions and Prime and established connectivity standards at each PSAP to ensure global interoperability;
- 10) PNSP shall manage, process and deliver NG Text to 9-1-1 services for the State. For the approximate 440 PSAPs in California, the PSAPs currently deployed with Text services shall be transitioned first to use this Contract, unless otherwise specified by CA 9-1-1 Branch. Wherever possible the integrated text service shall be deployed, based upon the PSAP's CPE and their readiness; otherwise, the default mode for Web based text services shall be used;
- 11) PNSP shall provide redundancy to support failover for each Region in the state;
- 12) RNSP shall provide redundancy to support failover for the Prime for the PSAPs in the awarded Region in the state;

- 13) PSNP shall provide aggregation and 9-1-1 traffic routing for all Voice over Internet Protocol (VoIP) and small LEC OSPs in California. This excludes wireless, AT&T wireline, and Frontier wireline and Consolidated Communications wireline;
- 14) RNSP shall provide aggregation and 9-1-1 traffic routing for all wireless, AT&T wireline, and Frontier wireline, and Consolidated Communications wireline OSP in California for the awarded Region;
- 15) PNSP shall provide leadership to promote collaborative mission focused, implementation that supports interoperability and Cal OES mission;
- 16) The RNSP shall follow the leadership provided by the PNSP to promote collaborative mission focused, implementation that supports interoperability and Cal OES mission;
- 17) The PNSP, RNSP and the CA 9-1-1 Branch shall provide a lead team member to work together to establish the interoperability interface. The PNSP Team Member shall be the Interface Team Leader. The Interface Team shall meet at a minimum weekly to develop the interoperable capability of the NG9-1-1 networks and interfaces;
- 18) PNSP and RNSP shall provide CPUC approved tariffed services based on the SOW and approval of the CA 9-1-1 Branch;
- 19) The PNSP shall be responsible to support integration of an NG9-1-1 Emergency Alert and Warning System (NG9-1-1 AWS) to include capabilities to use all functions provided by the Federal Emergency Management Agency (FEMA) Integrated Public Alert and Warning System (IPAWS).

## **2.2 PROJECT DESIGN**

The NG9-1-1 service provider shall be responsible for providing NG9-1-1 tariffed services as defined by this SOW, and EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS, and EXHIBIT 23, REGION TECHNICAL REQUIREMENTS.

The six (6) areas of tariffed services are:

- 1) NG9-1-1 Trunk Services;
- 2) NG9-1-1 Prime Aggregation Services (Note: Provide aggregation and 9-1-1 traffic routing for all VoIP and small LEC originating service providers in California. This excludes wireless, AT&T wireline, and Frontier wireline, and Consolidated Communications wireline);
- 3) NG9-1-1 Region Aggregation Services (Note: Provide aggregation and 9-1-1 traffic routing for all wireless, AT&T wireline, and Frontier wireline, and Consolidated Communications wireline OSPs in the awarded Region in California.
- 4) NG9-1-1 Core Services;
- 5) NG9-1-1 Prime Functions and Services;
- 6) NG9-1-1 Region Functions and Services.



### **2.3 NG9-1-1 SERVICES ENVIRONMENT**

This section is intended to present an overview of the NG9-1-1 Services Environment. The PNSP shall be responsible to deliver a solution utilizing the required technical requirements identified in the SOW and EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS. The RNSP shall be responsible to deliver a solution utilizing the required technical requirements identified in the SOW and EXHIBIT 23, REGION TECHNICAL REQUIREMENTS.

The NG9-1-1 Services – Prime and Region in California shall follow the NENA i3 Call Flow per NENA-STA-010.2-2016, NENA Detailed Functional and Interface Standards for the NENA i3 Solution. Each region shall provide NENA i3 call flow to support interoperability between their Region and the Prime. The Prime shall have the overall management and direction for consistency of call flow.

The NG9-1-1 Service Network Provider – PNSP shall be responsible to aggregate all OSP 9-1-1 traffic with the exception of AT&T, Frontier, Consolidated Communications wireline and wireless OSP. Text to 9-1-1 is also included as part of the 9-1-1 traffic. The PNSP shall aggregate all Text to 9-1-1 traffic from the Text Control Center or OSP. The PNSP shall be responsible for routing all aggregated 9-1-1 traffic to the appropriate PSAP. In the event of a regional network failure, the PNSP shall be responsible to provide redundant path for routing all 9-1-1 traffic from region through Prime to the PSAP. In the event a PSAP requires 9-1-1 traffic to be transferred outside of their region, the PNSP shall be responsible to accept the 9-1-1 traffic from the RNSP and deliver to the appropriate PSAP.

The NG9-1-1 Regional Network Service Provider – (RNSP) shall be responsible to aggregate all AT&T, Frontier, Consolidated Communications wireline and wireless OSP traffic within their awarded region.

The PNSP and RNSP shall be responsible to anchor all 9-1-1 traffic at aggregation until verification of the ability for the NG9-1-1 core services to deliver the call to the appropriate PSAP.

**The RNSP shall be responsible for all costs associated with the network connectivity to the PNSP for the redundant connectivity. The PNSP shall not charge the RNSP a connection fee for the redundant connectivity.**

### **2.4 COMMERCIALY AVAILABLE HARDWARE**

Where ever possible, commercially available hardware shall be used for the best quality and ability to replace parts quickly for maintenance and/or upgrades.

## **3 TERM OF THE CONTRACT**

Effective upon approval of the California Department of Technology (CDT), Statewide Technology Procurement (STP), the term of the contract is five (5) years with five (5) one (1) year optional extensions.

The CA 9-1-1 Branch at its sole discretion, may exercise its option to execute, five (5), one (1)-year extensions to perform Prime NG9-1-1 Core Services , ongoing support, and

knowledge transfer at the rates identified in EXHIBIT 22, COST WORKBOOK, for a maximum contract term of ten (10) years.

The CA 9-1-1 Branch may also amend to add services, including those identified as RNSP services, at the rates provided in the Contractor's BAFO submission.

### **3.1 CONTRACT COMMENCEMENT TIME**

Upon contract execution, the Contractor shall not be authorized to deliver or commence the performance of services as described in this SOW until written approval has been obtained from Cal OES. Any delivery or performance of service that is commenced prior to the signing of the contract shall be considered voluntary on the part of the Contractor and non-compensable.

Upon contract execution, the Contractor shall align the deployment NG Text to 9-1-1 Services as identified in the SOW, Project Deployment Plan (PDP), and EXHIBIT 21: TECHNICAL REQUIREMENTS. All other NG9-1-1 Services shall not be started until approval and written notification by Cal OES. All NG9-1-1 Services are expected to commence upon funding approval.

Contractor shall update tariffs and obtain CPUC approval of the tariff filing within 120 days of contract execution that support all technical requirements in EXHIBIT 21 or 23, cost elements in EXHIBIT 22 and the requirements in the SOW to CPUC and shall comply with all regulatory requirements. Failure to obtain approved tariff from the CPUC shall result be a material breach of contract.

### **3.2 CONTRACT AMENDMENTS**

This Contract may be amended, consistent with the terms and conditions of the Contract and by mutual consent, of both parties, subject to approval by the STP.

### **3.3 GENERAL PROVISION DEFINITIONS**

For this contract only the following sections of the GSPD 401 IT General Provisions are further defined as listed below:

22.a)

"Notice of Termination" means the written notice specifying the date and Services to be terminated, which shall be no later than 90 days after the date the notice was issued.

26.a)

For the purposes of Section 26a of the General Provisions limited liability, purchase price will be defined as the State's aggregate Not to Exceed (NTE) contract amount for the previous twelve months prior to the incident (\$10,358,400) or the Contractor's aggregate contract amount, whichever is lower.

#### 4 CONTRACT CONTACTS

The project representatives during the term of this Contract will be:

The CA 9-1-1 Branch contact will be the primary interface with the Contractor.

State: Governor's Office of Emergency Services, Public Safety Communications, CA 9-1-1 Branch	Contractor: Synergem Technologies, Inc.
Name: Tiffany Howard	Name: Myron S. Herron Jr.
Address: 601 Sequoia Pacific Blvd. Sacramento, CA 95811	Address: 371 Windrush Lane Mount Airy NC 27030
Phone: (916) 657-9233	Phone: (336) 456-0238
e-mail: <a href="mailto:Tiffany.Howard@caloes.ca.gov">Tiffany.Howard@caloes.ca.gov</a>	e-mail: <a href="mailto:mherron@synergemtech.com">mherron@synergemtech.com</a>

#### 5 SOLUTION REQUIREMENTS

##### 5.1 TECHNICAL REQUIREMENTS

All requirements as stated in EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS and EXHIBIT 23, REGION TECHNICAL REQUIREMENTS, are part of this SOW. Within ten (10) days of award of contract, the Contractor shall schedule an initial meeting with the CA 9-1-1 Branch to prioritize the statewide deployment. The services shall meet the technical requirements contained in all worksheets in EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS and EXHIBIT 23, REGION TECHNICAL REQUIREMENTS. Additional meetings may be required to further prioritize the statewide deployment. Additional meetings shall be agreed upon by the Contractor and CA 9-1-1 Branch at the initial meeting. The priorities to the statewide deployment shall be used to establish the Deployment Plan identified in section 13.1. The CA 9-1-1 Branch shall reserve the right to reassign priorities for the deployment of the statewide network. The Contractor agrees to follow the priorities as assigned by CA 9-1-1 Branch.

The Deployment Plan for Prime NG9-1-1 services at 440 PSAPs will require the Contractor to assign A Single Point of Contact to prioritize the statewide rollout in an efficient manner and consider all dependencies of PSAPs, Technology, CA 9-1-1 Branch Timeframe, Ordering Process, Risks, Training, Resources, and Acceptance Testing.

The Deployment Plan for an awarded Region NG9-1-1 services at all PSAPs in the awarded Region will require the Contractor to assign a Single Point of Contact to prioritize the region wide rollout in an efficient manner and consider all dependencies of PSAPs, Technology, CA 9-1-1 Branch Timeframe, Ordering Process, Risks, Training, Resources, and Acceptance Testing.

## **6 CONTRACTOR FACILITY LOCATIONS**

All Contractor's facilities, direct technical and administrative support personnel that will perform services as part of this Contract must be located within the Continental United States (CONUS) or the District of Columbia. The PNSP and RNSP shall maintain a minimum of two (2) geographically diverse cores dedicated to California with demonstrated capability to provide 99.999% availability.

## **7 CA 9-1-1 BRANCH ROLES AND RESPONSIBILITIES**

- 1) The CA 9-1-1 Branch will designate a person to whom all Contractor communication may be addressed, and who has the authority to act on all aspects of the services, see Section 4 for designee. This person will review the SOW and associated documents with the Contractor to ensure understanding of the responsibilities of both parties;
- 2) The CA 9-1-1 Branch personnel shall utilize the Project Milestone Report (PMR), SOW – ATTACHMENT 8, to document and track the status of all project tasks. The original PMR will be maintained with the CA 9-1-1 Branch and a copy of the PMR will be provided to the PNSP and RNSP Contractor.
- 3) The CA 9-1-1 Branch will provide access to department staff and management, offices and operation areas, as required, to complete the tasks and activities defined under this Contract;
- 4) The CA 9-1-1 Branch requires a minimum of ten (10) State business days for the review and approval of information and documentation provided by the Contractor to perform its obligations. In the event CA 9-1-1 Branch is unable to review and approve documents within the ten (10) days, the Contractor will be notified of the adjusted date. The documents are not automatically approved in the event CA 9-1-1 Branch is not able to review and approve within the ten (10) business days. If the Contractor is not provided an estimated date of State review and approval completion, the Contractor may initiate the escalation process which is identified in Section 11, Problem Escalation;
- 4) If a Contractor employee is unable to perform due to illness, resignation, or other factors beyond the Contractor's control, the Contractor will provide suitable substitute personnel. The substitute personnel shall be interviewed and approved by the CA 9-1-1 Branch NG9-1-1 Manager.
- 5) The CA 9-1-1 Branch will work with PSAP in the event there is no cabling available at Main Point of Entry (MPOE). For these instances, PNSP and RNSP shall not be responsible for any cost element related to new cabling and installation.

## 8 CONTRACTOR'S ROLES AND RESPONSIBILITIES

- 1) Upon contract execution the PNSP and RNSP shall meet via in person meeting or teleconference, with the CA 9-1-1 Branch team at a minimum weekly, or at the discretion of the CA 9-1-1 Branch, to ensure project tasks and timelines are met, with all Contractor Key Staff identified in SOW Section 9. The CA 9-1-1 Branch may require an in person meeting based on project status.
- 2) Upon contract execution until NG9-1-1 services are fully implemented, the PNSP and RNSP Project Coordinator shall maintain communication with the CA 9-1-1 Branch team on a regular basis throughout the week.
- 3) Once NG9-1-1 services are fully implemented, the PNSP and RNSP team shall meet with the CA 9-1-1 Branch at a minimum monthly to review outage reports and SLAs. This meeting will be in person with the CA 9-1-1 Branch team.
- 4) The PNSP shall develop all interface standards for aggregation, region, and PSAP, based on direction and approval from the CA 9-1-1 Branch.
- 5) The RNSP shall comply with all PNSP developed interface standards for aggregation, region, and PSAP, based on direction and approval from the CA 9-1-1 Branch.
- 6) The PNSP and RNSP shall collaborate on the implementation and development of all interface standards based on direction and approval from the CA 9-1-1 Branch. Upon contract execution the CA 9-1-1 Branch will establish a regular meeting schedule to facilitate PNSP and RNSP collaboration.
- 7) The Contractor shall provide its own equipment and software necessary to perform the required duties;
- 8) The PNSP and RNSP shall use a multi-layered redundancy of systems, software and facilities with no single point of failure;
- 9) The Contractor shall designate a primary contact person to whom all project communications may be addressed and who has the authority to act on all aspects of the services;
- 10) The Contractor shall notify CA 9-1-1 Branch in writing, of all changes in key personnel assigned to the tasks as outlined in Section #9 below. If a Contractor employee is unable to perform due to illness, resignation, or other factors beyond the Contractor's control, the Contractor will provide suitable substitute personnel. The substitute personnel shall be interviewed and approved by the CA 9-1-1 Branch NG9-1-1 Manager;
- 11) The Contractor shall perform their duties on the premises of the PSAP facilities located within California during the best available hours for the PSAP and at all other times as required to successfully provide the services;
- 12) Contractor staff that perform duties on premises of the PSAP will be subject to that PSAP's background check and security requirements;

- 13) The Contractor shall maintain a Certificate of Public Convenience and Necessity (CPCN) through CPUC throughout the term of the contract;
- 14) The Contractor shall have CPUC approved tariffs that match the contract terms, conditions, and pricing, throughout the term of the contract.
- 15) The Contractor shall submit a Project Milestone Report (PMR) for each non-tariffed NRC. Prior to payment, CA 9-1-1 Branch acceptance and signature of PMR is required.

## **9 CONTRACTOR KEY STAFF**

The Contractor will be responsible for providing all necessary staff to implement all services within the Prime NG9-1-1 Services Contract.

Unanticipated Tasks will be charged at the hourly rates identified in the Cost Workbook (EXHIBIT 22). Pricing for this tariffed line item shall be provided in the EXHIBIT 22, COST WORKBOOK. Within 14 calendar days of contract execution, the Contractor shall submit in writing to CA 9-1-1 Branch the following key staff:

- 1) Project Coordinator;
  - a) A minimum of three (3) years' experience with knowledge and experience in managing projects/ system installations of similar complexity.
- 2) PNSP Alert and Warning Coordinator;
  - a) A minimum of two (2) years' experience with Knowledge and experience in emergency notification systems, alert and warning requirements, and FEMA Integrated Public Alert Warning System (IPAWS).
- 3) NG9-1-1 Trunk Services Coordinator;
  - a) A minimum of two (2) years' experience with knowledge and experience in NG9-1-1 networks.
- 4) NG9-1-1 Aggregation Services Coordinator;
  - a) A minimum of two (2) years' experience with knowledge and experience in NG9-1-1 traffic aggregation and network configuration.
  - b) A minimum of two (2) years' experience with knowledge and experience working with the OSP include wireless, wireline, and VoIP technologies.
- 5) NG9-1-1 Core Services Coordinator;
  - a) A minimum of two (2) years' experience with knowledge and experience in development and implementation of NG9-1-1 Core Services.

- 6) NG9-1-1 Prime or Region Functions and Services Coordinator;
  - a) A minimum of two (2) years' experience with knowledge and experience in development and implementation of NG9-1-1 Core Services including network interoperability, system monitoring, GIS, and outage reporting.
- 7) PNSP Text-to-9-1-1 Coordinator;
  - a) A minimum of two (2) years' experience with knowledge and experience in NG Text to 9-1-1 Services.
- 8) System Monitoring and Outage Reporting Coordinator.
  - a) A minimum of two (2) years' experience with knowledge and experience in system monitoring, outage reporting, NG9-1-1 Network Services.

The proposed Key Staff must be available to start work on the project within 30 days of Contract execution.

## **10 SUBCONTRACTORS**

The PNSP and RNSP Contractor shall provide and maintain a list of all subcontractors providing the services identified below. The information shall be submitted in the same format as EXHIBIT 24: LIST OF PROPOSED SUBCONTRACTORS.

- Next Generation Core Services (NGCS)
- GIS
- Emergency Call Routing Function (ECRF)
- Emergency Services Routing Proxy (ESRP)
- Location Information Service (LIS)
- Location Database (LDB)
- Aggregation
- Alert and Warning
- Text-to-9-1-1
- System Monitoring

The PNSP and RNSP Contractor notify the CA 9-1-1 Branch, in writing, of any changes of Subcontractor personnel assigned to the tasks within ten (10) business days of the change. CA 9-1-1 Branch retains the right to approve or not approve. This requirement does not apply to subcontractors providing supplies only and no labor to the overall contract or project.

## **11 PROBLEM ESCALATION**

The parties acknowledge and agree that certain technical and project related problems or issues may arise, and that such matters shall be brought to the CA 9-1-1 Branch's attention. Problems or issues shall be reported in monthly status reports and via web-based alerting/monitoring systems accessible by the CA 9-1-1 Branch. Severity of the problem(s) as outlined below require escalated reporting. To this extent, the Contractor will determine the level of severity and notify the appropriate CA 9-1-1 Branch personnel. The CA 9-1-1 Branch personnel notified, and the time period taken to report the problem or issue, shall be at a level commensurate with the severity of the problem or issue. The CA 9-1-1 Branch personnel include, but are not limited to, the following:

First level:                   NG9-1-1 Manager  
First.Last@caloes.ca.gov  
(916) 657-####

Second level:                Ryan Sunahara, Division Chief  
Ryan.Sunahara@caloes.ca.gov  
(916) 657-9100

Third level:                  Budge Currier, Branch Manager  
Budge.Currier@caloes.ca.gov  
(916) 657-9911

### **11.1 SERVICE ISSUES AND OUTAGE NOTIFICATION**

After Contract award, information for the confidential CA 9-1-1 Branch outage notification phone number and e-mail will be provided. The outage reporting shall incorporate real-time or live monitoring per EXHIBIT 21 PRIME TECHNICAL REQUIREMENTS or EXHIBIT 23 REGION TECHNICAL REQUIREMENTS, where a secure log in portal is available to CA 9-1-1 Branch.

The Contractor shall develop an automated outage notification system that will provide live system monitoring capability and outage reporting to the CA 9-1-1 Branch.



### **11.1.1 FAILURE EVENT NOTIFICATION**

In the event of any service issue(s) and/or outage(s) as specified in the appropriate Service Level Agreement (SLA), the Contractor shall notify the CA 9-1-1 Branch via a phone call and via email within ten (10) minutes of initial report of outage or network failure, providing the Initial Notification and containing the following (as available):

- 1) Primary outage location;
- 2) Problem description;
- 3) Time of failure;
- 4) Affected systems/services;
- 5) Impact to the provision of 9-1-1 Service;
- 6) Trouble ticket number; Ticket pending (test or dispatch).

Follow-up notifications shall be provided by the contractor as new information becomes available or every 2 hours, whichever occurs first, and include a current status of the data provided in the initial contact and any additional data pertinent to the outage and its resolution such as:

- 1) Extent of outage;
- 2) Affected systems/services (if different than initial);
- 3) Potential number of requests for emergency services denied/failed, if unable to determine if requests for emergency service were lost or not, "session lost – unknown" should be in the outage notification);
- 4) Sequence of events toward resolution (action taken to resolve the issue);
- 5) Estimated time of technician arrival (ETA)/Estimated time of outage resolution (ETR).

When major event is cleared, Contractor shall send a Final Notification of resolution. CA 9-1-1 Branch may review this with the Contractor every month, to determine if major notifications need to be adjusted to support the overall Cal OES situational awareness. See SLA Section 32.

### **11.1.2 OTHER EVENT NOTIFICATION**

For any other service issue(s) or outage(s) that the monitoring system does not report on, the Contractor shall notify CA 9-1-1 Branch. Notifications shall include but are not limited to location not delivered with 9-1-1 traffic from OSP, 80% trunk capacity, policy based routing failure, and regional network down. Contractor shall notify the CA 9-1-1 Branch of the problem via e-mail within five (5) minutes of initial report of outage or disruption of service(s) providing the Initial Notification and contain the following (as available):

- 1) Primary outage location;
- 2) Problem description;
- 3) Time of failure;
- 4) Affected systems/services;
- 5) Impact to the provision of 9-1-1 Service;
- 6) Trouble ticket number; Ticket pending (test or dispatch).

When other event is cleared, Contractor shall send a Final Notification of resolution. CA 9-1-1 Branch may review this with the Contractor every month, to determine if notifications need to be adjusted to support the overall Cal OES situational awareness. See SLA Section 32.

### **11.1.3 OUTAGE REPORTING**

The Contractor shall for any service/system outage, deliver the appropriate e-mail, and if necessary a voice call to the CA 9-1-1 Branch Outage phone, and provide root cause analysis. See SLA Section 32

## **12 CHANGE CONTROL PROCESS**

The Contractor shall not make any changes after implementation and successful acceptance of the NG9-1-1 service, unless approved by the CA 9-1-1 Branch NG9-1-1 Manager. If change is required after implementation and successful acceptance that adds time or money, the amendment process shall be followed.

## **13 CONTRACTOR TASKS AND DELIVERABLE REQUIREMENTS**

### **13.1 MAINTENANCE PLAN**

Contractor shall be responsible for all maintenance to the Prime NG9-1-1 Services and the Region NG9-1-1 Services for the term of the Contract, at no additional cost. PNSP and RNSP Contractor shall include a draft maintenance plan in response to the RFP. A final maintenance plan shall be submitted to CA 9-1-1 Branch for review and approval within 90 days from Contract execution. Planned or unplanned maintenance shall not disrupt 9-1-1 service and/or trigger any SLAs.

Maintenance Schedule shall include at a minimum:

- 1) Hardware Issues;
- 2) Servers;
- 3) Switches;

- 4) Routers;
- 5) Software Issues;
- 6) Operating System Software Issues;
- 7) Security System Software Issues;
- 8) Connectivity Issues.

### **13.2 PNSP PROJECT DEPLOYMENT PLAN (PDP)**

All documents shall be provided in electronic format unless a hardcopy is specifically requested by the State.

- 1) The PNSP Contractor shall submit a draft Statewide NG9-1-1 PDP as a part of their bid submission. Upon contract execution, PNSP Contractor shall submit a final statewide PDP within 60 days after contract execution or a mutually agreed upon date between the Contractor and CA 9-1-1 Branch per the SLA 32.2. All modifications to the PNSP final PDP shall be approved by CA 9-1-1 Branch. The PDP shall be a task-oriented Gantt chart detailing the deployment activities, clearly identifying all external dependencies outside of the Contractor's control for expected timelines and that addresses each of the NG9-1-1 service areas.
- 2) The PNSP Contractor shall utilize the Project Milestone Report (PMR), SOW – ATTACHMENT 8, for each milestone to document and track the status of all project tasks. The original PMR will be maintained with the CA 9-1-1 Branch and a copy of the PMR will be provided to the PNSP.
- 3) Within 60 days of contract execution for each Region, the PNSP and RNSP Project Managers shall begin coordination of their Interface and Integration Plan of the PDP's for all associated tasks for connectivity between PNSP and RNSP, PSAP interface, and aggregation per the SLA 32.2. The PNSP and RNSP who fail to meet this requirement shall collectively be subject to the SLA 32.2. CA 9-1-1 Branch will schedule and facilitate meetings between PNSP and RNSP within 60 days of contract execution for each region.
- 4) Within 120 days of contract execution for each Region, the PNSP and RNSP Project Managers shall complete coordination of their Interface and Integration Plan of the PDP's for all associated tasks for connectivity between PNSP and RNSP, PSAP interface, and aggregation per the SLA 32.2. The PNSP and RNSP who fail to meet this requirement shall collectively be subject to the SLA 32.2. CA 9-1-1 Branch will schedule and facilitate meetings between PNSP and RNSP within 60 days of contract execution for each region. The PDP shall include major milestones identified at a minimum the following:

1. Identify Key Staff
2. Project schedule with major milestones identified
  - a) PSAP site survey schedule;
  - b) Network requirements and final design solution;
  - c) OSP aggregation connectivity plan;
  - d) PNSP Text to-911 deployment plan;
  - e) PNSP Alert and Warning deployment plan;
  - f) PNSP Alert and Warning training plan;
  - g) Acceptance Test Plan;
  - h) Training plan;
  - i) Monthly Billing and SLA plan;
  - j) PSAP cutover day plan;
  - k) Interface and Integration plan (shall include PSAP, RNSP and aggregation);
  - l) Selective Router Decommissioning Plan: This plan will outline the PNSP role in transitioning all 9-1-1 traffic from selective router.
- 5) PNSP Contractor shall conduct a site survey;
- 6) PNSP Contractor shall deliver a certificate of system readiness when the service is ready for acceptance testing;
- 7) PNSP Contractor shall develop the Statewide Text to 9-1-1 Project Deployment Plan as part of the master Project Plan within ten (10) days after contract execution or a mutually agreed upon date. The Deployment shall consist of at least three (3) phases with milestones that are completed for PSAPs with Text Existing within three (3) month, PSAPs with Text Planned within six (6) months, and PSAPs remaining within nine (9) months. The project plan shall be a task-oriented Gantt chart detailing the deployment activities, clearly identifying all external dependencies outside of the Contractor's control for expected timelines;
- 8) PNSP Contractor shall deliver System Acceptance Testing to ensure that the system operates in substantial accord with the technical specifications, is

adequate to perform as warranted by Contractor's response to the requirements of this Contract and evidences a satisfactory level of performance reliability, prior to its acceptance;

- 9) PNSP Contractor shall deliver acceptance testing for software (other than Operating System Software);
- 10) PNSP Contractor shall provide a Project Coordinator with knowledge and experience in managing system installations of similar complexity at no additional cost to the PSAP or the CA 9-1-1 Branch. All installations shall use industry accepted project management methodology throughout the project;
- 11) PNSP Contractor shall deliver maintenance service including parts, software support and labor;
- 12) PNSP Contractor shall deliver notification to the PSAPs if determining telephone line repair is needed;
- 13) PNSP Contractor shall deliver the necessary maintenance and parts to keep the service in good operating condition, which includes preventative scheduled maintenance.

### **13.3 RNSP PROJECT DEPLOYMENT PLAN**

All documents shall be provided in electronic format unless a hardcopy is specifically requested by the State.

- 1) The RNSP Contractor shall submit a draft Region-wide NG9-1-1 Project Deployment Plan as a part of their bid submission. Upon contract execution, RNSP Contractor shall submit a final statewide PDP within 60 days after contract execution or a mutually agreed upon date between the Contractor and CA 9-1-1 Branch per the SLA 32.2. All modifications to the RNSP PDP shall be approved by CA 9-1-1 Branch. The PDP shall be a task-oriented Gantt chart detailing the deployment activities, clearly identifying all external dependencies outside of the Contractor's control for expected timelines and that addresses each of the NG9-1-1 service areas.
- 2) The RNSP Contractor shall utilize the Project Milestone Report (PMR), SOW – ATTACHMENT 8, for each milestone to document and track the status of all project tasks. The original PMR will be maintained with the CA 9-1-1 Branch and a copy of the PMR will be provided to the RNSP.
- 3) Within 60 days of contract execution for awarded Region, the PNSP and RNSP Project Managers shall begin coordination of their Interface and Integration Plan of the PDP's for all associated tasks for connectivity between PNSP and RNSP, PSAP interface, and aggregation per the SLA 32.2. The PNSP and RNSP who fail to meet this requirement shall collectively be subject to the SLA 32.2. CA 9-1-1 Branch will

schedule and facilitate meetings between PNSP and RNSP within 60 days of contract execution for each region.

- 4) Within 120 days of contract execution for awarded Region, the PNSP and RNSP Project Managers shall complete coordination of their Interface and Integration Plan of the PDP's for all associated tasks for connectivity between PNSP and RNSP, PSAP interface, and aggregation per the SLA 32.2. The PNSP and RNSP who fail to meet this requirement shall collectively be subject to the SLA 32.2. CA 9-1-1 Branch will schedule and facilitate meetings between PNSP and RNSP within 60 days of contract execution for each region.
- 5) The PDP shall include major milestones identified at a minimum the following:
  1. Identify Key Staff
  2. Project schedule with major milestones identified
    - a) PSAP site survey schedule;
    - b) Network requirements and final design solution;
    - c) OSP aggregation connectivity plan;
    - d) Acceptance Test Plan;
    - e) Training plan;
    - f) Monthly Billing and SLA plan;
    - g) PSAP cutover day plan;
    - h) Interface and Integration plan (shall include PSAP, RNSP and aggregation);
    - i) Selective Router Decommissioning Plan: This plan will outline the RNSP role in transitioning all 9-1-1 traffic from selective router.
  - 6) RNSP Contractor shall conduct a site survey;
  - 7) RNSP Contractor shall deliver a certificate of system readiness when the service is ready for acceptance testing;
  - 8) RNSP Contractor shall deliver System Acceptance Testing to ensure that the system operates in substantial accord with the technical specifications, is adequate to perform as warranted by Contractor's response to the requirements of this Contract and evidences a satisfactory level of performance reliability, prior to its acceptance;

- 9) RNSP Contractor shall deliver acceptance testing for software (other than Operating System Software);
- 10) RNSP Contractor shall provide a Project Coordinator with knowledge and experience in managing system installations of similar complexity at no additional cost to the PSAP or the CA 9-1-1 Branch. All installations shall use industry accepted project management methodology throughout the project;
- 11) RNSP Contractor shall deliver maintenance service including parts, software support and labor;
- 12) RNSP Contractor shall deliver notification to the PSAPs if determining telephone line repair is needed;
- 13) RNSP Contractor shall deliver the necessary maintenance and parts to keep the service in good operating condition, which includes preventative scheduled maintenance.

**13.4 TEXT-TO-9-1-1 SPREADSHEET TRACKING**

Due to the need to transition Text-to-9-1-1 services within 12 months of contract execution, the PNSP Contractor shall use comprehensive Excel spreadsheets depicting each PSAP, Text Service Modality, Acceptance Testing, test dates per wireless carrier, and final go live dates. This shall be provided monthly no later than the 10<sup>th</sup> calendar day of each month.

CA 9-1-1 Branch tracking #	FCCID	PSAP NAME	COUNTY	TEXT SERVICE MODALITY	STATUS	Date Approved	Carrier test date	Date for acceptance	Date Live
				Web or Integrated	Live or approved or in progress		For each carrier		

**13.5 TEXT-TO-9-1-1 PSAP DEPLOYMENT PLAN**

For each PSAP, the PNSP Contractor shall provide their deployment plan information 20 calendar days before the PSAP installation or a mutually agreed upon date. The deployment plan shall include, but not limited to:

- a) PSAP training;
- b) Admin training if applicable;
- c) Go Live Date;
- d) Carrier testing coordination documentation;
- e) PSAP name and contact.

### **13.6 TEXT-TO-9-1-1 PSAP CONNECTIVITY AND TESTING**

For each PSAP, the PNSP Contractor shall, install connectivity and conduct testing as necessary.

### **13.7 TEXT-TO-9-1-1 PSAP ACCEPTANCE TESTING**

For each PSAP, the PSNP Contractor shall coordinate with PSAP and CA 9-1-1 Branch to conduct fully comprehensive Acceptance Testing and complete the Acceptance Test Form, and submit to the CA 9-1-1 Branch. Additionally, PNSP Contractor shall perform a new Acceptance Test within five (5) business days along with any additional training if necessary, if there is a technology upgrade or if the PSAP changes from one Text-to-9-1-1 modality service to another.

## **14 DELIVERABLE ACCEPTANCE/REJECTION PROCESS (PNSP AND RNSP)**

### **14.1 ACCEPTANCE**

The CA 9-1-1 Branch will be the sole judge of the acceptability of all work performed and all work products produced by the Contractor as a result of this SOW. Should the work performed or the products produced by the Contractor fail to meet the CA 9-1-1 Branch conditions, requirements, specifications, guidelines, or other applicable standards, the following resolution process will be employed, except as superseded by other binding processes.

The CA 9-1-1 Branch will notify the Contractor in writing within ten (10) State business days after completion of each phase of service of any acceptance problems by identifying the specific inadequacies and/or failures in the services performed and/or the products produced by the Contractor.

The Contractor will, within five (5) State business days after initial problem notification, respond to the CA 9-1-1 Branch by submitting a detailed explanation describing precisely how the identified services and/or products actually adhere to and satisfy all applicable requirements, and/or a proposed corrective action plan to address the specific inadequacies and/or failures in the identified services and/or products. Failure by the Contractor to respond to the CA 9-1-1 Branch initial problem notification within the required time limits may result in immediate termination of the Contract.



The CA 9-1-1 Branch will, within ten (10) State business days after receipt of the Contractor's detailed explanation and/or proposed corrective action plan, notify the Contractor in writing whether it accepts or rejects the explanation and/or plan. If the CA 9-1-1 Branch rejects the explanation and/or plan, the Contractor will submit a revised corrective action plan within five (5) State business days of notification of rejection. Failure by the Contractor to respond to the CA 9-1-1 Branch' notification of rejection by submitting a revised corrective action plan within the required time limits may result in immediate termination of the Contract.

The CA 9-1-1 Branch will, within ten (10) State business days of receipt of the revised corrective action plan, notify the Contractor in writing whether it accepts or rejects the revised corrective action plan proposed by the Contractor. Rejection of the revised corrective action plan will result in immediate termination of the Contract. In the event of such termination, the CA 9-1-1 Branch shall pay all amounts due the Contractor for all work accepted prior to termination.

#### **14.2 ACCEPTANCE TESTING CRITERIA (PNSP AND RNSP)**

The Contractor shall provide Acceptance Testing Plan (ATP) and Checklist within 30 calendar days of contract execution. Contractor shall finalize ATP and Checklist and submit to CA 9-1-1 Branch for final approval within 90 calendar days of contract execution. At a minimum the ATP shall include the current NENA standards. System acceptance templates have been provided in SOW – Attachment 4a-4e and SOW – Attachment 5a-5b to identify the minimum required information.

The Contractor shall develop an ATP to include at a minimum for the following services:

- 1) NG9-1-1 Trunk Services;
- 2) PNSP NG9-1-1 Alert and Warning System;
- 3) NG9-1-1 Aggregation Services;
- 4) NG9-1-1 Statewide GIS (PNSP shall manage, RNSP shall integrate);
- 5) NG9-1-1 Core Services;
- 6) PNSP NG Text-to-9-1-1 Services and Text-to-9-1-1 Authorization Checklist;
- 7) Full System Acceptance (include Prime and Region network acceptance);
- 8) Other:
  - a) PSAP cutover plan;

- b) Billing Process;
- c) Real-Time System Monitoring;
- d) PSAP Interface;
- e) Aggregation Interface;
- f) Prime/Regional Interface.

Acceptance Testing is intended to ensure that the service is performing as warranted by Contractor's response to the requirements of this Contract and evidences a satisfactory level of performance availability as per SLAs, prior to its acceptance by the CA 9-1-1 Branch. Acceptance Testing is required for all newly installed technology service after a successful performance period.

The Contractor shall issue a certificate of system readiness to the CA 9-1-1 Branch when services are ready for Acceptance Testing. Acceptance Testing shall commence on a date and time mutually agreed upon by the CA 9-1-1 Branch, within ten (10) business days, following receipt of the certificate of system readiness and shall end when the services have met the standard of performance ATC for a period of 45 calendar days. Operation of the services to confirm proper installation shall be considered to be a part of the Acceptance Test. It is not required that the 45 calendar days expire in order to begin a subsequent Acceptance Testing period.

Services shall not be accepted by the CA 9-1-1 Branch, and no charges associated with such service shall be paid by the CA 9-1-1 Branch, until the Contractor has demonstrated that the Contractor has satisfactorily provided all of the functionality per SOW, Section 14.2 ACCEPTANCE TESTING CRITERIA.

The standard of performance for Acceptance Testing is defined as the operation of service at 99.999% availability for a period of 45 calendar days. For Acceptance Testing purposes, the system shall not have any major failures during the 45 calendar day testing period. In the event of a major failure, the 45 day clock will be restarted after the failure has been corrected. Minor failures will not restart the testing period clock however, will be noted in the System Acceptance report.

Upon successful completion of the entire NG9-1-1 network system ATC, a Certificate of System Readiness shall be completed by the PNSP, the PSAP representative and the CA 9-1-1 Branch NG9-1-1 Manager. The Certificate of System Readiness will be attached with all testing notes and findings and the original copy shall be filed with the CA 9-1-1 Branch.

It shall be in the CA 9-1-1 Branch's sole determination as to whether a deliverable service has been successfully completed and acceptable to the CA 9-1-1 Branch.

#### **15 USER ACCEPTANCE TESTING CRITERIA (PNSP AND RNSP)**

The Contractor shall coordinate with the CA 9-1-1- Branch NG9-1-1 Manager who will identify the PSAP team for User Acceptance Testing (UAT) criteria. The PSAP team will coordinate UAT with the Contractor for all NG9-1-1 Services deployed at the PSAP and Regional level. UAT will be developed by the PSAP and in collaboration with the contractor and approved by the NG9-1-1 Manager.

#### **16 NG9-1-1 EMERGENCY ALERT AND WARNING (PNSP)**

The PNSP shall be responsible for providing a statewide NG9-1-1 AWS for local, regional and state end users that meet all technical requirements outlined in EXHIBIT 21, TECHNICAL REQUIREMENTS.

The NG9-1-1 AWS shall be capable of distributing and/or broadcasting recorded voice, text-to-voice, text message, email and fax notifications to an area identified by a GIS polygon or predefined GIS tool.

##### **16.1 PUBLIC SELF-REGISTRATION PORTAL**

The PNSP shall provide a public facing portal to allow local community members to register their contact information and additional telephone, text message and email contact information that meet all technical requirements outlined in EXHIBIT 21, TECHNICAL REQUIREMENTS.

##### **16.2 ALERT AND WARNING GIS MAP**

The Alert and Warning System GIS map shall provide local, regional and state users predefined customizable geometric shapes to select contact data from the GIS map.

##### **16.3 ALERT AND WARNING TRAINING**

The PNSP shall be responsible to provide training in the form of the Train-the-Trainer course for all local, regional, and state entities who will utilize the system. Training shall include all training resource materials and on-site training per EXHIBIT 21, TECHNICAL REQUIREMENTS.

#### **17 GEOGRAPHICAL INFORMATION SYSTEM (PNSP AND RNSP)**

CA 9-1-1 Branch will provide PNSP contractor the complete and validated CA 9-1-1 Statewide GIS database that conforms to NENA-STA-010.2-2016 i3 standard and all technical requirements outlined in EXHIBIT 21, TECHNICAL REQUIREMENTS.

### **17.1 GEOGRAPHICAL INFORMATION DATABASE (PNSP AND RNSP)**

PNSP Contractor shall be responsible for coordination and transition of Statewide GIS database from CA 9-1-1 Branch' selected GIS database Contractor. Contractor shall assimilate the Statewide GIS database and accept responsibility for the tools and resources needed to manipulate, edit, process discrepancies, provide updates, provision to functional elements, and provide data normalization of the GIS database.

RNSP Contractor shall be responsible incorporate the Statewide GIS database, emergency call routing function (ECRF), and associate policy based routing functions from CA 9-1-1 Branch' selected PNSP Contractor into the RNSP ECRF and NG Core Service solution.

### **17.2 GEOGRAPHICAL INFORMATION DATABASE RESPONSIBILITY (PNSP)**

The Statewide GIS Database will contain the shape files and layers necessary to route 9-1-1 traffic. OSPs are responsible to provide subscriber location data and submit updates to the PNSP. The 9-1-1 County Coordinators are responsible to maintain GIS data and submit updates to the PNSP. The PNSP shall be the definitive data source for 9-1-1 traffic routing.

- 1) The PNSP shall provide an administrative access to GIS database for a maximum of 500 users. The users will include County Coordinators, OSP representatives and the CA 9-1-1 Branch. Complete list of personnel will be provided to the PNSP upon contract award;
- 2) The PNSP shall provide all PSAPs the functionality to support database location queries that integrate to CPE.

### **17.3 LOCATION DATABASE (LDB) AND ASSOCIATED SERVICES (PNSP)**

The PNSP Contractor shall provide a Location Database (LDB) to facilitate the implementation of location services. The LDB must be able to provide Presence Information Data Format – Location Object (PIDF-LO), utilizing both the civic and geodetic profiles, for all calls entering the Next Generation Core Services (NGCS). At a minimum, the LDB shall meet the technical requirements identified in EXHIBIT 21, TECHNICAL REQUIREMENTS.

Ability for Service Providers to update their location records using their existing processes (such as Service Order Input (SOI)) or a web based user interface.

### **17.4 PSAP GIS BOUNDARY DATA (PNSP)**

The PSNP Contractor shall maintain records of all PSAP profiles and GIS routing boundaries. The shape file jurisdiction boundaries shall be the property of the CA 9-1-1 Branch and provided upon request. The initial shape files will be provided by the CA 9-1-1 Branch; updates may be sent by County Coordinators or PSAPs and the update

process will be similar to the existing Master Street Address Guide (MSAG) update process. NG9-1-1 traffic will be routed via GIS shape files to the correct PSAP.

## **18 POLICY BASED ROUTING (PNSP AND RNSP)**

The PNSP Contractor shall supply a rules-based routing proxy functionality per NENA-STA-010.2-2016. Specifically the Policy Routing Function (PRF) is required to interface with the Emergency Service Routing Proxy (ESRP) and the conditional routing possibilities within the NGCS. Contractors must ensure that the system's rules-based routing interfaces to the other components and functional elements making up the NGCS are in compliance with NENA-STA-010.2-2016 ([https://www.nena.org/page/i3\\_Stage3](https://www.nena.org/page/i3_Stage3)) and meets the requirements of the CA 9-1-1 Branch. The Contractor shall specifically identify the interface used to establish these rules within the NGCS and any conditions that may exist limiting its function. All Policy Routing Data is the property of CA 9-1-1 Branch and shall be available for review by an on-line system, dashboard, by GIS, or excel data format.

The RNSP shall supply a rules-based routing proxy functionality per NENA-STA-10.2-2016 (and subsequent versions) that aligns with the PSNP developed and maintained (PRF) as required to interface with the PSNP developed and maintained Emergency Service Routing Proxy (ESRP) and the conditional routing possibilities within the NGCS.

## **19 DATA HANDLING AND OWNERSHIP (PNSP AND RNSP)**

Contractor shall provide security for all data handling and make it available to the CA 9-1-1 Branch at no additional charge upon request in written, electronic, or by secure portal access for each of the following types of data. All data related to this contract shall be the property of the CA 9-1-1 Branch.

### **19.1 CALL DATA RECORDS (PNSP AND RNSP)**

Any 9-1-1 Call Data Records (CDR) are the property of the CA 9-1-1 Branch and shall be available to the PSAP as defined by CA 9-1-1 Branch's Operation Manual. The Contractor shall utilize Session Internet Protocol (SIP) metadata and i3 logging to monitor, track and verify data flow as a part of the CDR. The PNSP shall be able to provide a data push and/or pull of NENA i3 logging data from all RNSPs. The RNSP shall provide a data push and/or pull of NENA i3 logging data to the PNSP. All NG9-1-1 Metadata shall have a ten (10) year retention period.

### **19.2 NG9-1-1 TEXT TRAFFIC STATISTICS (PNSP)**

PNSP Contractor shall provide interface and all required data to support text session CDR within State's existing statistical tracking contractor. NG9-1-1 traffic includes all voice and data from caller to PSAP.

### **19.3 TEXT SESSION STATISTIC DATA (PNSP)**

Any Text Session Data are the property of the CA 9-1-1 Branch and shall be available to the PSAP as defined by CA 9-1-1 Branch's Operation Manual. Statistical reports and Ad hoc report data shall also be available. Text Session Metadata shall be provided to CA 9-1-1 Branch for ten (10) year retention period.

### **19.4 TEXT SESSION DATA (PNSP)**

Any Text-to-9-1-1 session data is the property of the PSAP and shall be available for up to two (2) years after the session is completed. Statistical reports and Ad hoc report data shall also be available. Batches of text session data shall be available to the PSAP by week, month, or year.

### **19.5 DATA MANAGEMENT (PNSP AND RNSP)**

Data and reports requested within the scope of this contract shall be maintained daily and be made available electronically upon request but shall be submitted as required in the SOW.

### **19.6 CONFIGURATION MANAGEMENT DATABASE (PNSP AND RNSP)**

The Contractor shall supply a Configuration management database that at a minimum, includes all of the software, systems, network protocols, port usage and relevant system related information in a mutually agreed upon format as defined in EXHIBIT 21 PRIME TECHNICAL REQUIREMENTS and EXHIBIT 23 – REGION TECHNICAL REQUIREMENTS.

### **19.7 TEST ACCEPTANCE DATA (PNSP AND RNSP)**

All Test Acceptance Data shall be made available to the CA 9-1-1 Branch upon request during the deployments with no limitations for distribution and discussion. All Test Data shall be provided to the CA 9-1-1 Branch upon request, with no restrictions.

### **19.8 DATA TRANSFERABILITY (PNSP AND RNSP)**

Upon termination or Contract expiration, for any reason, this data shall be transferred to the CA 9-1-1 Branch, in an effort to ensure emergency operations are not disrupted.

## **20 REPORTING (PNSP AND RNSP)**

Contractor is responsible for delivering all reports as described in the SLA's, EXHIBIT 21, Prime TECHNICAL REQUIREMENTS, EXHIBIT 23, Region TECHNICAL REQUIREMENTS and SOW. In addition, the following reports are required as described below. This list is not intended to be exhaustive and additional reports may be required.

#### **20.1 NG9-1-1 PNSP SERVICE OUTAGE REPORTING**

PNSP Contractor shall provide the required outage reporting per the CA 9-1-1 Branch procedures and technical requirements EXHIBIT 21, EXHIBIT 21 PRIME TECHNICAL REQUIREMENTS.

#### **20.2 PNSP NG9-1-1 SERVICE PROJECT REPORTING**

PNSP Contractor shall provide coordination and all supporting project documentation for weekly NG9-1-1 Prime Service meetings/updates with CA 9-1-1 Branch, including the Text to 9-1-1 deployment plan.

#### **20.3 PNSP SYSTEM MONITORING DASHBOARD**

PNSP Contractor shall provide a system that will monitor, display and report the health of the Prime and Regional networks from ingress to egress of all 9-1-1 traffic. Monitoring system shall meet all technical requirements in accordance with EXHIBIT 21, EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS.

#### **20.4 PNSP NG9-1-1 SERVICE REPORTING**

PNSP Contractor shall provide the required SLA reports per the SOW, SLA Section 32.

#### **20.5 PNSP TEXT TO 9-1-1 SERVICE REPORTING**

PNSP Contractor shall provide the required SLA reports per the SOW, SLA Section 32.

#### **20.6 PNSP TEXT TO 9-1-1 SESSION REPORTING**

PNSP Contractor shall provide full reports of the Text to 9-1-1 sessions to the PSAPs in a secure and always available on-line platform.

#### **20.7 RNSP NG9-1-1 SERVICE OUTAGE REPORTING**

RNSP Contractor shall provide the required outage reporting per the CA 9-1-1 Branch procedures and technical requirements EXHIBIT 23 REGION TECHNICAL REQUIREMENTS.

#### **20.8 RNSP NG9-1-1 SERVICE PROJECT REPORTING**

RNSP Contractor shall provide coordination and all supporting project documentation for weekly NG9-1-1 Region Service meetings/updates with CA 9-1-1 Branch.

## **20.9 RNSP SYSTEM MONITORING DASHBOARD**

RNSP Contractor shall provide a system that will monitor, display and report the health of the Regional networks from ingress to egress of all 9-1-1 traffic and provide reporting system monitoring data to the PNSP. Monitoring system shall meet all technical requirements in accordance with EXHIBIT 23, REGION TECHNICAL REQUIREMENTS.

## **20.10 RNSP NG9-1-1 SERVICE REPORTING**

Contractor shall provide the required SLA reports per the SOW, SLA Section 32.

## **21 SECURITY (PNSP AND RNSP)**

Contractor shall provide all security and monitoring for the Prime NG9-1-1 Services per the requirement EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS and EXHIBIT 23, REGION TECHNICAL REQUIREMENTS.

## **22 DISASTER RECOVERY (PNSP AND RNSP)**

PNSP and RNSP Contractor is fully responsible for developing and implementing a disaster recovery plan to identify how the NGCS system tactically recovers from a disaster or situation that compromises the performance of NG9-1-1 services. This plan shall focus on alert, notification, response, restoration activities and the management of any event identified as a disaster that may cause harm to the system. The Disaster Recovery Plan shall be delivered within 30 days of Contract award for review and approval. The PNSP shall provide a step by step emergency re-route procedures from each Regional NG9-1-1 Network to the PSAP 90 calendar days, or mutually agreed upon date, prior to Region Network go-live. The RNSP shall provide a step by step emergency re-route procedures from awarded Regional NG9-1-1 Network to the PNSP for delivery to PSAP 90 days, or mutually agreed upon date, prior to Region Network go-live. The requirements are as follows:

- 1) The Disaster Recovery strategy must be consistent regardless of event or trigger;
- 2) An assessment process must be applied to the Disaster Recovery process;
- 3) Ownership of all facets of the plan must be defined;
- 4) Management teams and reporting scenarios must be defined;
- 5) Response teams must be identified;
- 6) Key decision makers and escalation lists must be defined;
- 7) Procedures of communication must be defined.

The goal of the Disaster Recovery plan is to create and document a playbook that includes procedures for a single source of management of the event for rapid escalation, triage, problem management, and communications.



The Disaster Recovery Plan must include:

- 1) Activation procedures;
- 1) Recovery team identification;
- 2) Roles and responsibilities ;
- 3) Recovery strategies and response;
- 4) Recovery management procedures;
- 5) Recovery cost procedures;
- 6) Recovery resources;
- 7) Recovery communications;
- 8) Stakeholder management.

Disaster recovery shall contain, but not limited to, the items listed in EXHIBIT 21, EXHIBIT 21, Prime Technical Requirements and EXHIBIT 23, REGION TECHNICAL REQUIREMENTS. Contractor shall provide the Disaster Recovery Plan within 30 calendar days after award or a mutually agreed upon date for CA 9-1-1 Branch to review and approve.

### **23 CONTINUITY OF OPERATIONS PLAN (PNSP AND RNSP)**

The Contractor must develop and maintain a Continuity of Operations Plan for the NGCS. Whereas the Disaster Recovery plan is concerned with response, mitigation and recovery; the Continuity of Operations plan must focus on ensuring that all critical services, and functions may still be carried out in the wake of a disruption, as well as after a disruption has been recognized. The Continuity of Operations Plan must include measures to account for common threats and vulnerabilities that may make a significant disruption more likely. The Contractor shall treat the Continuity of Operations Plan as a long term strategic plan to ensure continued operation in spite of disasters, disruptions or service limiting events.

The Continuity of Operations plan may include the following areas:

- 1) Backup facilities and redundancy such as mobile sites, hot sites, warm sites, and cold sites;
- 2) Backup software, storage and procedures for all data and files;
- 3) Redundant and diverse communications paths and systems;
- 4) Backup power, power supplies and power generation;
- 5) Complete redundant systems utilizing alternate technology;
- 6) Personnel and resources to support continued operations;
- 7) Subscription services;
- 8) Cyber incident redundancy and recovery support;
- 9) Call trees;
- 10) Crisis communications;

11) Succession plans.

Contractor shall provide the Continuity of Operations Plan within one month after contract execution or a mutually agreed upon date for CA 9-1-1 Branch to review and approve. The PNSP shall provide a step by step emergency re-route procedures from each Regional NG9-1-1 Network to the PSAP 90 calendar days, or mutually agreed upon date, prior to Region Network go-live. The RNSP shall provide a step by step emergency re-route procedures from awarded Regional NG9-1-1 Network to the PNSP for delivery to PSAP 90 days, or mutually agreed upon date, prior to Region Network go-live.

**24 AGGREGATION SERVICE (PNSP AND RNSP)**

The PNSP contractor shall provide an OSP traffic aggregation service for all OSPs in the State of California excluding wireless, AT&T wireline, Consolidated Communications wireline and Frontier wireline as defined in EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS. PNSP shall provide aggregation connections to all Wireless OSPs that are in “hot standby” mode to enhance aggregation capabilities. The PNSP shall provide aggregation service that supports Text to 9-1-1 requirements in EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS.

The RNSP contractor shall provide an OSP traffic aggregation service for all wireless, AT&T wireline, Consolidated Communications wireline and Frontier wireline OSPs in the awarded Region in the State of California as defined in EXHIBIT 23, REGION TECHNICAL REQUIREMENTS.

**25 AGGREGATION “HOT STANDBY” PLAN (PNSP)**

The PNSP Contractor shall provide an aggregation plan to support wireless, AT&T wireline, Consolidated Communications wireline and Frontier wireline as directed by CA 9-1-1 Branch. Aggregation services for wireless, AT&T wireline, Consolidated Communications wireline and Frontier wireline will be the responsibility of the RNSP provider however, in certain emergency situation CA 9-1-1 Branch may need to contact the Contractor to perform services as required. This plan will support the need to aggregate OSP traffic in the event that a regional aggregation service needs to be replaced with another aggregation service provider. In this emergency situation, the PNSP would take on the OSP aggregation responsibility and would be required to execute their Aggregation Plan. The PNSP does not have primary responsibility to aggregate OSP traffic. The PNSP would rely on the RNSP to deliver 9-1-1 traffic to the PNSP. This aggregation plan would only be utilized in emergency situations; however, must be in active standby mode and plan must include a test cycle. The replacement of the OSP aggregation service provider would be directed by CA 9-1-1 Branch. The aggregation plan is needed to support emergency situations.

## **26 COMPATIBILITY AND INTERFACE (PNSP AND RNSP)**

The PNSP Contractor is responsible for all PNSP Network connections, as defined by Interconnection Agreements, and all related NG911 service interfaces from the ingress of any 9-1-1 traffic type at the aggregation service providers Point of Interface (POI) to the egress of any 9-1-1 traffic type to any of the possible PSAP Call Processing Equipment site or host configurations by managed gateway and as directed by CA 9-1-1 Branch. The Contractor shall provide the interfaces to interconnect to each RNSP as directed by CA 9-1-1 Branch and per the applicable requirements in EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS. Demarcation points shall be defined by Interconnection Agreements between interconnecting service providers. Contractor shall provide 9-1-1 traffic flow architecture to support the design overview.

The RNSP Contractor is responsible for all RNSP Network connections in the awarded Region, as defined by Interconnection Agreements, and all related NG911 service interfaces from the ingress of any 9-1-1 traffic type at the aggregation service providers POI to the egress of any 9-1-1 traffic type to any of the possible PSAP Call Processing Equipment site or host configurations by managed gateway and as directed by CA 9-1-1 Branch. The RNSP Contractor shall provide the interfaces to interconnect to the PNSP as directed by CA 9-1-1 Branch and per the applicable requirements in EXHIBIT 23, REGION TECHNICAL REQUIREMENTS. Demarcation points shall be defined by Interconnection Agreements between interconnecting service providers. RNSP Contractor shall provide 9-1-1 traffic flow architecture to support the design overview.

The EXHIBIT 22 COST WORKBOOK defines the prices for interfaces, NG9-1-1 Trunks and POIs. The CA 9-1-1 Branch will work with the PNSP and RNSP to approve items in the Cost Workbook to support the Project Plan. In the event PNSP or RNSP determines the need for an item in the COST WORKBOOK the CA 9-1-1 Branch will validate the need and ensure alignment with SOW prior to approval.

### **26.1 STATEWIDE CAPSNET INTERFACE (PNSP)**

PNSP Contractor shall provide a plan to interface with the statewide California Public Safety Microwave Network (CAPSNET) backhaul as redundant path to each PSAP as defined in EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS. The CA 9-1-1 Branch will provide additional information on the CAPSNET plan upon contract execution.

## **27 SYSTEM/SERVICE INSTALLATION (PNSP AND RNSP)**

Contractor shall provide a detailed installation, implementation, and training plan to the CA 9-1-1 Branch for review and approval within 30 calendar days of Contract Execution.

The Contractor's plan shall include the time provisions specified in EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS and EXHIBIT 23, REGION TECHNICAL REQUIREMENTS.

## **28 TECHNOLOGY REFRESH (PNSP AND RNSP)**

PNSP Contractor shall provide the CA 9-1-1 Branch, in writing, within 12 months from contract execution, a plan to maintain and update all hardware and software services on the Prime NG9-1-1 Service. The PNSP Contractor agrees Prime NG9-1-1 Services shall not be disrupted while performing hardware and/or software upgrades, in accordance to EXHIBIT 21 PRIME TECHNICAL REQUIREMENTS. PNSP Contractor shall provide all technology refreshes, to include training, equipment and technician hours at no cost to the State.

RNSP Contractor shall provide the CA 9-1-1 Branch, in writing, within 12 months from contract execution, a plan to maintain and update all hardware and software services on the Region NG9-1-1 Service. The RNSP Contractor agrees Region NG9-1-1 Services shall not be disrupted while performing hardware and/or software upgrades, in accordance to EXHIBIT 23 REGION TECHNICAL REQUIREMENTS. RNSP Contractor shall provide all technology refreshes, to include training, equipment and technician hours at no cost to the State.

## **29 KNOWLEDGE TRANSFER AND TRAINING (PNSP AND RNSP)**

Contractor shall provide Train-the-Trainer course for CA 9-1-1 Branch personnel and not to exceed one (1) eight (8)-hour training course for the Network Reporting System. Contractor shall conduct training within 45 calendar days of the scheduled "Go Live" date and shall provide all training resources at the time of training. Contractor shall be responsible to maintain current versions of the training materials and provide training material to the CA 9-1-1 Branch for the duration of service.

### **29.1 PSAP NG TEXT TO 9-1-1 TRAINING (PNSP)**

Contractor shall provide all PSAP training as Train-the-Trainer and training materials to PSAP(s) who deployed web-based Over-the-Top (OTT) NG Text-to-9-1-1 Solutions. Contractor shall coordinate training dates with each of PSAP and training shall be completed prior to the 'Go-Live' date. Contractor is not require to provide integrated Text-to-9-1-1 training.

## **30 MAINTENANCE (PNSP AND RNSP)**

PNSP Contractor shall be responsible for all maintenance to the Prime NG9-1-1 Services for the term of the Contract. RNSP Contractor shall be responsible for all maintenance to the Region NG9-1-1 Services for the term of the Contract. A final maintenance plan shall

be submitted to CA 9-1-1 Branch for review and approval within 90 calendar days from Contract execution. Planned or unplanned maintenance shall not disrupt 9-1-1 service and/or trigger any SLAs.

Maintenance Schedule shall include at a minimum:

- 1) Hardware Issues;
- 2) Servers;
- 3) Switches;
- 4) Routers;
- 5) Software Issues;
- 6) Operating System Software Issues;
- 7) Security System Software Issues;
- 8) Connectivity Issues.

### **31 PSAP HELP DESK/CALL CENTER (PNSP AND RNSP)**

Contractor shall provide a point of contact 24 hours a day, 7 days a week, 365 days a year, for CA 9-1-1 Branch, PSAP, PNSP and RNSP personnel to report trouble on the respective NG9-1-1 Services in accordance with requirements as identified in EXHIBIT 21, PRIME TECHNICAL REQUIREMENTS and EXHIBIT 23, REGION TECHNICAL REQUIREMENTS. The Contractor shall provide help desk and call center service in accordance with EXHIBIT 21, TECHNICAL REQUIREMENTS and EXHIBIT 23, REGION TECHNICAL REQUIREMENTS.

## **32 SERVICE LEVEL AGREEMENTS (SLA) (PNSP AND RNSP)**

### **32.1 A SINGLE OUTAGE COULD TRIGGER MULTIPLE SLAS.SLA CONTRACTOR'S MONTHLY ACTIVITY REPORT (PNSP AND RNSP)**

By the 10<sup>th</sup> of each month, the Contractor shall provide the CA 9-1-1 Branch with a detailed report of the service level made under this Contract using Monthly Technical SLA Compliance Report listed below, Contractor's Monthly Activity Report, SLA Section 32. The CA 9-1-1 Branch reserves the right to require the Contractor to modify the format and content of these reports during the Contract term at no cost. At the conclusion of each month's meeting, CA 9-1-1 Branch will advise Contractor on any SLAs that have not been met. Contractor agrees this will be final notification and will move forward with any appropriate credit/or adjustment for the next billing cycle. Contractor agrees this meeting shall serve as notification in compliance with the SLA terms. The remedy for each missed SLA shall be solely determined by the State.

#### **32.1.1 THE CONTRACTOR'S MONTHLY ACTIVITY REPORT**

Monthly Activity Report shall include at a minimum the fields listed below:

- 1) ID;
- 2) PSAP Name Impacted;
- 3) Month Date;
- 4) Day/Time Start;
- 5) Day/Time End;
- 6) Duration Hour: Min
- 7) Reporting Entity;
- 8) Outage Type;
- 9) Cause of Incident/Outage;
- 10) Summary of Incident/Outage;
- 11) Yes/no if qualified for SLA;
- 12) The applicable SLA;
- 13) Rights and remedies applied to each ticket when applicable;
- 14) Other.

#### **32.1.2 PNSP NG9-1-1 TARIFF SERVICES TO BE IDENTIFIED IN THE MONTHLY ACTIVITY REPORT ARE:**

- 1) NGCS;
- 2) NG9-1-1 Alert and Warning;
- 3) Aggregation;
- 4) NG9-1-1 Trunk
- 5) NG Text to 9-1-1;

6) Statewide GIS.

**32.1.3 RNSP NG9-1-1 TARIFF SERVICES TO BE IDENTIFIED IN THE MONTHLY  
ACTIVITY REPORT ARE:**

- 1) NGCS;
- 2) Aggregation;
- 3) NG9-1-1 Trunk.

**32.2 SLA REPORTING REQUIREMENTS – ADMINISTRATIVE**

<b>32.2.1 PNSP Project Deployment Plan (PDP)</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
Final PNSP PDP shall be delivered within 60 calendar days of contract execution to CA 9-1-1 Branch.	Calendar Days	Delivery of PNSP PDP within 60 days.	Failure to meet the objective shall result in a \$5,000.00 credit/or adjustment for each calendar day that the report is not delivered after the objective.

<b>32.2.2 RNSP Project Deployment Plan (PDP)</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
Final RNSP PDP shall be delivered within 60 calendar days of contract execution to CA 9-1-1 Branch.	Calendar Days	Delivery of RNSP PDP within 60 days.	Failure to meet the objective shall result in a \$5,000.00 credit/or adjustment for each calendar day that the report is not delivered after the objective.

**32.2.3 PNSP and RNSP Interface and Integration Collaboration for Project Deployment Plan (PDP)**



Definition	Measurement Method	Objective	Rights and Remedies
<p>PNSP and RNSP shall begin collaboration 60 days from contract execution of each region.</p>	<p>Calendar Days</p>	<p>To initiate and ensure collaboration for Interface and Integration of the NG9-1-1 Services.</p>	<p>Failure to meet the objective shall result in a \$5,000.00 credit/or adjustment for each calendar day that the report is not delivered after the objective.</p>
<p>Final Interface and Integration PDP shall be delivered within 120 calendar days after contract execution of each awarded region.</p>	<p>Calendar Days</p>	<p>To ensure collaboration for Interface and Integration of the NG9-1-1 Services.</p>	<p>Failure to meet the objective shall result in a \$5,000.00 credit/or adjustment for each calendar day that the report is not delivered after the objective.</p>

<b>32.2.4 Unauthorized Modification Project Deployment Plan (PDP)</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
Contractor shall not modify any CA 9-1-1 Branch approved milestones in the PDP.	Calendar Days	Completion of PDP milestones within the date agreed by the State and Contractor.	Any unauthorized modification to the PDP shall result in a \$50,000.00 credit/or adjustment plus \$5,000.00 for each calendar day that the PDP is not restored to the approved version.

<b>32.2.5 PNSP and RNSP Interface and Integration Implementation of Project Deployment Plan (PDP)</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
PNSP and RNSP shall complete and comply with the Interface and Integration Plan based on the approved SOW Attachment 8 – Project Milestone Report.	Calendar Days	To eliminate finger pointing and complete the Interface and Integration of the NG9-1-1 Services.	<p>Failure to meet the objective shall result in a \$5,000.00 credit/or adjustment for each calendar day that the report is not delivered after the objective.</p> <p>Additionally a Senior Staff Member from both the RNSP and PNSP that fail to meet this SLA shall appear before the CA 9-1-1 Advisory Board as</p>

			directed be the CA 9-1-1 Branch.
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<b>32.2.6 Failure to Meet Project Deployment Plan (PDP) Milestone Dates</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
Contractor shall achieve all milestone dates identified in the PDP.	Calendar Days	Completion of PDP milestones within the date agreed by the CA 9-1-1 Branch and Contractor.	Any failure to meet the objective shall result in a \$5,000.00 credit/or adjustment for each calendar day that the milestone is not delivered after the objective.

<b>32.2.7 Budget SLA Remittance</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
SLA Remedy Delivery  Timely credit/or adjustment of remedies due to the CA 9-1-1 Branch for missed SLA objectives.	Calendar Days.	Contractor's credit/or adjustment shall be issued no more than 60 calendar days after written notice from the CA 9-1-1 Branch.	Each occurrence of an SLA remedy (credit/or adjustment) that is not issued within 60 calendar days shall result in a \$5,000.00 credit/or adjustment for each calendar day that the credit/or adjustment is not issued.

**32.3 SLA REPORTING REQUIREMENTS – TECHNICAL**

The following technical SLAs provide charts describing the definition, measurement method, objective, and rights and remedies for each category. The following SLAs are not intended to supersede any regulatory or statutory requirements and/or penalties imposed by the FCC, CPUC, or any other legislative oversight.

32.3.1 System Monitoring			
Definition	Measurement Method	Objective	Rights and Remedies
Contractor shall deliver all System Monitoring Access 24/7/365.	The monthly availability percentage equals the Scheduled Uptime per month less Unavailable Time divided by Scheduled Uptime per month multiplied by 100. Scheduled uptime is based on 24x number of days in the month. The monthly Availability percentage shall be based on the cumulative total of all outage durations for each calendar month.	99.999%	<p>Failure to meet the SLA objective for one month shall result in a 25% credit/or adjustment of the Total Monthly Recurring Cost (TMRC) of all System Monitoring services under contract for that month.</p> <p>Next consecutive month fail to meet the SLA objective shall result in a 50% credit/or adjustment of the TMRC of all System Monitoring services under contract for that month.</p> <p>Each additional consecutive month fail to meet the SLA objective shall result in a 100% credit/or adjustment of the TMRC of all System Monitoring services under contract for that month.</p>

<b>32.3.2 System Outage Notification</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
Contractor shall report all outages that potentially impact the delivery of 9-1-1 traffic within ten (10) minutes of the occurrence.	Any outage that potentially impacts the delivery of 9-1-1 traffic.	Notification within ten (10) minutes or less.	Any failure to meet the objective shall result in a \$5,000.00 credit/or adjustment  Next consecutive minute that the Contractor fails to meet the SLA objective shall result in an additional \$1,000.00 credit/or adjustment per minute, up to the TMRC for all System Monitoring services.

**32.4 SLA NG9-1-1 TRUNK SERVICE – AVAILABILITY CHART**

<b>NG9-1-1 Trunk Service Availability</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
<p>The overall NG9-1-1 Trunk Service shall be available to each end point connection.</p>	<p>The monthly availability percentage equals the Scheduled Uptime per month less Unavailable Time divided by Scheduled Uptime per month multiplied by 100.            Scheduled uptime is based on 24x number of days in the month.            The NG9-1-1 Trunk Service availability requires two diverse NG9-1-1 Trunk Connections to each PSAP. For those PSAPs where diverse NG9-1-1 Trunks are not available and when approved by CA 9-1-1 Branch, the Individual NG9-1-1 Trunks Service applies. The monthly Availability percentage shall be based on the cumulative total of all outage durations for each calendar month.</p>	<p>99.999%</p>	<p>Failure to meet the SLA objective for one month shall result in a 25% credit/or adjustment of the TMRC for NG9-1-1 Trunk Service for that month.</p> <p>Failure to meet the SLA objective for the next consecutive month shall result in a 50% credit/or adjustment of the TMRC for NG9-1-1 Trunk Service for that month.</p> <p>Failure to meet the SLA objective for each additional consecutive month shall result in a 100% credit/or adjustment of the TMRC for that month plus an additional \$50,000.</p>

<b>Individual NG9-1-1 Trunk Service Availability</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
Individual NG9-1-1 Trunk Service shall be available to each end point connection and will only apply when diverse NG9-1-1 trunks are not available and when approved by CA 9-1-1 Branch.	<p>The monthly availability percentage equals the Scheduled Uptime per month less Unavailable Time divided by Scheduled Uptime per month multiplied by 100.</p> <p>Scheduled uptime is based on 24x number of days in the month.</p> <p>The monthly Availability percentage shall be based on the cumulative total of all outage durations for each calendar month.</p>	99.9%	<p>Failure to meet the SLA objective for one month shall result in a 25% credit/or adjustment of the TMRC for the impacted individual NG9-1-1 Trunk Services.</p> <p>Next consecutive month fail to meet the SLA objective shall result in a 100% credit/or adjustment of the TMRC for the impacted individual Trunk Services.</p> <p>Each additional consecutive month fail to meet the SLA objective shall result in a 200% credit/or adjustment of the impacted individual NG9-1-1 Trunk Services.</p>



**32.5 SLA AGGREGATION SERVICE – AVAILABILITY CHART**

<b>Aggregation Service Availability</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
<p>The NG9-1-1 Aggregation Service shall be available to combine all identified incoming OSPs including Text to 9-1-1 OSPs for the PNSP.</p>	<p>The monthly availability percentage equals the Scheduled Uptime per month less Unavailable Time divided by Scheduled Uptime per month multiplied by 100.            Scheduled uptime is based on 24x number of days in the month.            The monthly Availability percentage shall be based on the cumulative total of all outage durations for each calendar month.</p>	<p>99.999%</p>	<p>Failure to meet the SLA objective for one month shall result in a 25% credit/or adjustment of the TMRC for Aggregation Service for that month.</p> <p>Next consecutive month fail to meet the SLA objective shall result in a 50% credit/or adjustment of the TMRC for that month.</p> <p>Each additional consecutive month fail to meet the SLA objective shall result in a 100% credit/or adjustment of the TMRC for that month plus an additional \$50,000.</p>

### 32.6 SLA NG CORE SERVICES AVAILABILITY

A Core Service Outage is defined as the failure to deliver a call properly presented (i.e. Address, or Latitude/Longitude or Cell Sector) to the **Core Services** to some PSAPs due to a failure in some part of the Contractors solution. The Core Services availability shall have an uptime of at least 99.999%.

Note that delivering a call to an alternate or default CA PSAP due to an Emergency Services IP Network (ESInet) connectivity problem, a CA PSAP problem or other external circumstance not part of the Contractors solution, is not defined as a Core Service Outage.

Core Service Availability			
Definition	Measurement Method	Objective	Rights and Remedies
The NG9-1-1 core service will deliver 9-1-1 traffic including location information to the appropriate CPE.	The monthly availability percentage equals the Scheduled Uptime per month less Unavailable Time divided by Scheduled Uptime per month multiplied by 100. Scheduled uptime is based on 24x number of days in the month. The monthly Availability percentage shall be based on the accumulative total of all outage durations for each calendar month.	99.999%	Failure to meet the SLA objective for one month shall result in a 25% credit/or adjustment of the TMRC of NG9-1-1 Core Service.  Next consecutive month to fail to meet the SLA objective shall result in a 50% credit/or adjustment of the TMRC of NGCS.  Each additional consecutive month to fail to meet the SLA objective shall result in a 100% credit/or adjustment of the TMRC of NGCS plus

			an additional \$50,000.
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**32.7 SLA NG CORE SERVICES – ROUTING FAILURE**

A Routing Failure is defined as the failure to select the correct preferred PSAPs for a call based on the information accompanying the call, including any and all parts of the NG9-1-1 Core Services. Incorrect routing due to incorrect or missing data accompanying the call, or due to incorrect GIS database entries provided by the authoritative service, or alternate routing due to factors such as CA PSAP conditions, or network outages not under the Contract resulting control of the Contractor, are not considered Routing Failures. The SLA requires that 99.999% of all calls be free of Routing Failures.

Routing Failure			
Definition	Measurement Method	Objective	Rights and Remedies
The failure to select the correct preferred PSAP for a call based on the information accompanying the call and the contents of the GIS and Policy Databases within NGCS.	The monthly number of calls that are routed to a specific PSAP divided by the number of calls the information accompanying the call and the contents of the GIS and Policy Databases indicate should have been routed to that specific PSAP multiplied by 100.	99.999%	<p>Failure to meet the SLA objective for one month shall result in a 25% credit/or adjustment of the TMRC of NGCS.</p> <p>Next consecutive month to fail to meet the SLA objective shall result in a 50% credit/or adjustment of the TMRC of NGCS.</p> <p>Each additional consecutive month to fail to meet the SLA objective shall result in a 100% credit/or adjustment of the TMRC of NGCS plus an additional \$50,000.</p>

**32.8 SLA NG CORE SERVICE – VOICE QUALITY MEAN OPINION SCORE (MOS)**

NG Core Network Services must forward voice calls with little or no degradation of voice quality of the call from the ingress demarcation point to the egress demarcation point, as measured and monitored by an automated MOS measurement tool between various ingress and egress points at times when the ESInet is meeting its performance parameters. MOS values shall be measured hourly unless a problem has been detected, in which case measurements shall be made at five (5) minute intervals as necessary, 99% of the MOS measurements shall exceed two-point-six (2.6), and 90% of the MOS measurements shall exceed three-point-eight (3.8). If the ESInet is not meeting performance standards and while a Trouble Ticket is open on the ESInet performance problem, then substandard MOS measurements shall not be charged against the Contractors performance.

<b>NG CORE NETWORK SERVICE – MOS</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
NG Core Network Services must forward voice calls with little or no degradation of voice quality of the call from the ingress demarcation point to the egress demarcation point, as measured and monitored by an automated Mean Opinion Score (MOS) measurement tool between various ingress and egress points at times when the ESInet is meeting its performance parameters.	MOS values shall be measured hourly unless a problem has been detected	At five (5) minute intervals, 99% of the MOS measurements shall exceed 2.6 and 90% shall exceed 3.8.	25% credit/or adjustment of TMRC of NG9-1-1 Core Services for single occurrence.  50% credit/or adjustment of TMRC of NG9-1-1 Core Services for second occurrence with a 60 minute period.  100% credit/or adjustment of TMRC of NG9-1-1 Core Services for third occurrence with a 60 minute period.

**32.9 SLA NG CORE SERVICE – CATASTROPHIC OUTAGE 1**

<b>Core Service Catastrophic Outage 1</b>
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Definition	Measurement Method	Objective	Rights and Remedies
The NG9-1-1 core service will deliver 9-1-1 traffic including location information to the appropriate NG9-1-1 CPE.	Single outage with a duration of six (6) minutes or more.	Preventing outages of six (6) minutes or more.	100% credit/or adjustment of the TMRC of NGCS plus an additional \$50,000.

**32.10 SLA NG CORE SERVICE – CATASTROPHIC OUTAGE 2**

Catastrophic Outage 2			
Definition	Measurement Method	Objective	Rights and Remedies
The NG9-1-1 Core Service will deliver 9-1-1 traffic including location information to the appropriate NG9-1-1 CPE.	Single outages of greater than two (2) minutes and less than six (6) minutes.	Preventing outages greater than two (2) minutes, but less than six (6) minutes.	50% credit/or adjustment of the TMRC of NGCS.

**32.11 SLA PRIME NG TEXT TO 9-1-1 SERVICE AVAILABILITY CHART**

NG Text to 9-1-1 Service Availability			
Definition	Measurement Method	Objective	Rights and Remedies
NG Text to 9-1-1 Service shall deliver text calls to the appropriate PSAP for every PSAP in the State, within the Contractor's control.	The monthly availability percentage equals the Scheduled Uptime per month less Unavailable Time divided by Scheduled Uptime per month multiplied by 100. Scheduled uptime is based on 24x number of days in the month.  The monthly Availability percentage shall be based on the	99.999%	Failure to meet the SLA objective for one month shall result in a 25% credit/or adjustment of the TMRC of NG Text to 9-1-1 for that month.  Next consecutive month fail to meet the SLA objective shall result in a 50% credit/or adjustment of the TMRC of NG

	accumulative total of all outage durations for each calendar month.		Text to 9-1-1 for that month.  Each additional consecutive month fail to meet the SLA objective shall result in a 100% credit/or adjustment of the TMRC of NG Text to 9-1-1 for that month plus additional \$10,000.
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**32.12 SLA PRIME NG TIME TO RESTORE – TEXT SERVICE FAILURE CHART**

Time to Repair – Text Service Failure			
Definition	Measurement Method	Objective	Rights and Remedies
NG Text to 9-1-1 service shall deliver text calls to the appropriate PSAP for every PSAP in the State, within the Contractor's control.	Single outage with a duration of two (2) minutes to five (5) minutes.	Outages greater than two (2) minutes	25% credit/or adjustment of the TMRC for NG Text to 9-1-1.
NG Text to 9-1-1 service shall deliver text calls to the appropriate PSAP for every PSAP in the State, within the Contractor's control.	Single outage with a duration of six (6) minutes to 29 minutes.	Outages greater than six (6) minutes.	50% credit/or adjustment of the TMRC for NG Text to 9-1-1.

<p>NG Text to 9-1-1 service shall deliver text calls to the appropriate PSAP for every PSAP in the State, within the Contractor's control.</p>	<p>Single outage with a duration of 30 minutes to 59 minutes.</p>	<p>Outages greater than 30 minutes.</p>	<p>100% credit/or adjustment of the TMRC.</p>
<p>NG Text to 9-1-1 service shall deliver text calls to the appropriate PSAP for every PSAP in the State, within the Contractor's control.</p>	<p>Single outage with a duration of 60 minutes or more.</p>	<p>Outages greater than 60 minutes.</p>	<p>100% credit/or adjustment of the TMRC plus an additional \$5,000 for NG Text to 9-1-1.</p>

**32.13 SLA PRIME NG TIME TO TRANSITION TEXT-TO-9-1-1 SERVICE**

<p><b>Time to transition Text-to-9-1-1 Service</b></p>			
<p><b>Definition</b></p>	<p><b>Measurement Method</b></p>	<p><b>Objective</b></p>	<p><b>Rights and Remedies</b></p>
<p>All PSAPs who have already deployed text with web or integrated service, as of Contract award, must be transitioned to the awarded Contractor no less than one (1) year of the Contract execution date.</p>	<p>The number of PSAPs deployed with text service as of the contract award date that have signed and submitted the SOW NG Prime Text-to-9-1-1 Acceptance and Authorization Check List.</p>	<p>To transition a minimum of 100 PSAPs that are currently text deployed within the first six months of contract award date.</p> <p>The remaining Text</p>	<p>Any of the first 100 PSAPs transitioning within the first six (6) months that have not signed system acceptance shall result in a 100% credit/or adjustment for a total of each Monthly Recurring Costs (MRC).</p> <p>For the remaining PSAPs transitioning within the first 12 months that</p>



		<p>deployed PSAPs shall be transitioned to the NG9-1-1 Services - Prime contract within 12 months of the contract award date.</p>	<p>have not signed system acceptance shall result in a 100% credit/or adjustment for a total of each MRC plus an additional \$5,000.</p> <p>Any PSAP deployed that has not transitioned by 24 months after contract award date shall result in a 100% credit/or adjustment for a total of each MRC. Plus an additional \$10,000.</p>
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**32.14 SLA PRIME NG TIME TO DEPLOY NEW TEXT-TO-9-1-1 SERVICE**

Time to deploy Text-to-9-1-1 Service			
Definition	Measurement Method	Objective	Rights and Remedies
The contractor shall have 180 days to deploy text for any PSAP's initial request to deploy text for web or integrated.	From the Text Deployment Status report, the time measured in calendar days from the date of the requested order approved.	Any text deployment shall be provisioned, tested and live, with final acceptance signed by the PSAP within 180 days of request to take text.	Every month, or any portion of a month after 180 days, shall result in a 100% credit/or adjustment for a total of each MRC.

**32.15 NG9-1-1 ALERT AND WARNING SYSTEM (NG9-1-1 AWS)**

<b>NG9-1-1 Alert and Warning System (NG9-1-1 AWS)</b>			
<b>Definition</b>	<b>Measurement Method</b>	<b>Objective</b>	<b>Rights and Remedies</b>
The PNSP shall provide NG9-1-1 AWS to broadcast notifications to a pre-selected geographic area and/or delivery of an IPAWS message.	Single outages of greater than five (5) minutes.	99.99%.	25% credit/or adjustment of the TMRC for NG9-1-1 AWS.
The PNSP shall provide AWS to broadcast notifications to a pre-selected geographic area and/or delivery of an IPAWS message.	Single outage with a duration of greater than five (5) minutes to 29 minutes.	99.99%	50% credit/or adjustment of the TMRC for NG9-1-1 AWS.

The PNSP shall provide AWS to broadcast notifications to a pre-selected geographic area and/or delivery of an IPAWS message.	Single outage with a duration of 30 minutes to 59 minutes.	99.99%	100% credit/or adjustment of the TMRC for NG9-1-1 AWS.
The PNSP shall provide AWS to broadcast notifications to a pre-selected geographic area and/or delivery of an IPAWS message.	Single outage with a duration of 60 minutes or more.	99.99%	100% credit/or adjustment of the TMRC plus an additional \$5,000 for NG9-1-1 AWS.

**32.16 TECHNICAL SLA COMPLIANCE REPORT**

The PNSP and each RNSP shall submit Monthly SLA Compliance Report for each NG service type shall be provided in the format listed below. The PNSP and RNSPs shall submit a monthly report to the CA 9-1-1 Branch no the 10<sup>th</sup> of each month following the end of the reporting month that reflects the status of all SLA objectives that were not met during the previous month, including the rights and remedies. The report shall list all Trouble Tickets that were open and/or acted upon during the reported month, including tickets not qualifying for SLA remedy. This report shall show what SLA rights and remedies were applied to each ticket number, when applicable. If no Trouble Tickets were opened and/or acted upon during a month, the report shall state there were no issues or tickets for that month. The CA 9-1-1 Branch may review this with the Contractor every month, to determine if the monthly technical SLA compliance report needs to be adjusted to support the overall CA 9-1-1 Branch fiscal oversight.

The monthly SLA compliance report shall include the following detail:

- 1) Report period;
- 2) Contractor’s trouble ticket number;
- 3) PSAP name;

- 4) PSAP FCC ID;
- 5) Service type;
- 6) Brief trouble symptom;
- 7) Brief restoration description;
- 8) Ticket open date and time;
- 9) Problem resolution date and time;
- 10) Total stop clock duration, outage duration;
- 11) Yes/no if qualified for SLA;
- 12) The applicable SLA; and
- 13) Rights and remedies applied to each ticket when applicable.

**32.17 NG TECHNICAL SLA COMPLIANCE REPORT CHART**

NG Technical Compliance Report SLA			
Definition	Measurement Method	Objective	Rights and Remedies
<p>Reporting Requirement</p> <p>The Contractor shall provide the SLA reports required by this contract for each month of activity during the term of the contract by the 10<sup>th</sup> business day of the following month</p>	<p>Business Days.</p>	<p>The Contractor shall deliver accurate and complete reports by the 10<sup>th</sup> of the month following the end of the applicable reporting month.</p>	<p>Failure to meet the objective shall result in a \$5,000.00 credit/or adjustment for each business day that the report is not delivered after the objective.</p>

**32.18 UNPLANNED DOWNTIME REPORTING**

UNPLANNED DOWNTIME REPORTING SLA			
Definition	Measurement Method	Objective	Rights and Remedies
The Contractor shall provide an initial root cause analysis within 48 hours.	Business Days	The Contractor shall deliver initial root cause analysis to CA 9-1-1 Branch and the affected PSAPs within 48 hours of unplanned failure.	Each occurrence of a failure to meet the objective shall result in a \$5,000.00 credit/or adjustment for each business day that the report is not delivered after the objective.
Disclosure for Unplanned Downtime and Root Cause Analysis shall be provided within 15 business days.	Business Days.	The Contractor shall deliver disclosure reports to CA 9-1-1 Branch and the affected PSAPs within 15 business days of unplanned failure.	Each occurrence of a failure to meet the objective shall result in a \$5,000.00 credit/or adjustment for each business day that the report is not delivered after the objective.

**32.19 STOP CLOCK CONDITIONS (PNSP and RNSP)**

The following Stop-Clock Conditions shall apply for any of the SLA Categories, during the term of this Contract including any and all extensions. Timeframes are dependent on the length of time the Contractor takes to restore the NG9-1-1 service, minus the time associated with events outside of the Contractor’s control to prevent punitive damages

from being assessed. At any time the Contractor can contact the CA 9-1-1 Branch to discuss Stop Clock conditions that may not be identified below.

**32.20 STOP CLOCK – REQUEST FOR DELAY (PNSP and RNSP)**

Periods when restoration or testing effort is delayed at the specific request of the PSAP or CA 9-1-1 Branch. The Stop-Clock condition shall exist during the period the Contractor was delayed, provided that reasonable and documented efforts are made to contact the PSAPs during the applicable Stop-Clock period.

**32.21 STOP CLOCK – REQUEST FOR OBSERVATION (PNSP and RNSP)**

Time after a service has been restored, but the PSAP or CA 9-1-1 Branch requests ticket be kept open for observation. If the service is later determined by the PSAP or CA 9-1-1 Branch to not have been restored, the Stop-Clock shall continue until the time the PSAP or CA 9-1-1 Branch notifies the Contractor that the service has not been restored.

**32.22 STOP CLOCK – RESTORATION NOT VERIFIED (PNSP and RNSP)**

Time after a service has been restored, but the PSAP or CA 9-1-1 Branch is not available to verify that the service is working. If the service is later determined by the PSAP or CA 9-1-1 Branch, to not have been restored, the Stop-Clock shall apply only for the time period between Contractor's reasonable attempt to notify the PSAP or CA 9-1-1 Branch that Contractor believes the service has been restored and the time the PSAP or CA 9-1-1 Branch notifies the Contractor that the service has not been restored.

**32.23 STOP CLOCK – LACK OF ENTRANCE (PNSP and RNSP)**

Lack of building entrance facilities or conduit structure that are the PSAPs responsibility to provide.

**32.24 STOP CLOCK – SITE READINESS REQUIREMENTS (PNSP and RNSP)**

PSAPs failure to prepare the site in accordance with the Contractor's Site Readiness Requirements.

**32.25 STOP CLOCK – PSAP CONTACT/ACCESS PROBLEM (PNSP and RNSP)**

The following contact/access problems, provided that Contractor makes reasonable efforts to contact the PSAPs during the applicable stop-clock period:

- 1) Access necessary to correct the problem is not available because access has not been arranged by site contact or the PSAPs representative;
- 2) Site contact refuses access to technician who displays proper identification;

- 3) Insufficient or incorrect site contact information which prevents access, provided that Contractor takes reasonable steps to notify the PSAPs of the improper contact information and takes reasonable steps to obtain the correct information;
- 4) Site has limited hours of business that directly impacts the Contractor's ability to resolve the problem;
- 5) If it is determined later that the cause of the problem was not at the site in question, then the Stop-Clock shall not apply;
- 6) Any problem or delay to the extent caused by PSAPs staff that prevents or delays Contractor's resolution of the problem. In such event, Contractor shall make a reasonable request to PSAPs staff to correct the problem or delay;
- 7) PSAPs applications that interfere with repair of the trouble;
- 8) Failure of the Trouble Ticket originator or responsible party to return a call from Contractor's technician for on-line close-out of Trouble Tickets after the service has been restored as long as Contractor can provide documentation substantiating message from Contractor's technician.

### **32.26 STOP CLOCK – UNAPPROVED ALTERATIONS (PNSP and RNSP)**

If service failure is caused by alterations or attachments not furnished, approved or maintained by the Contractor.

### **32.27 REPORTING TROUBLE TICKET LOG (PNSP and RNSP)**

The Contractor shall maintain a Trouble Ticket Log that will track the progress and status of restoration for all SLAs. The Contractor's Trouble Ticket Log will include the date and time that each Failure was reported, or system/service alarm of failure whichever occurs first, each PSAP affected by the failure, the current status of the restoration process and the date and time that the failure is remedied to the CA 9-1-1 Branch representative's satisfaction. The Contractor shall provide web-portal, 24 hour, seven (7) day, access to the CA 9-1-1 Branch in order to track progress of the restoration of failures and to validate SLA calculations.

### **32.28 UNPLANNED DOWNTIME DISCLOSURE AND ROOT CAUSE ANALYSIS (PNSP and RNSP)**

In the event an individual NG Core Service component is impacted by unplanned downtime, (such as a failure), the Contractor shall provide, at the request of the CA 9-1-1 Branch and/or PSAPs, a written disclosure statement within two (2) calendar weeks via email which shall include but not be limited to:

- 1) The component that failed;

- 2) The duration the component was impacted;
- 3) Impact to the overall service due to the component failure – including impacted PSAPs by FCC Identification (ID);
- 4) Corrective action taken to recover the component.

In addition to the above disclosure the Contractor shall provide a root cause analysis to the CA 9-1-1 Branch and affected PSAPs within 15 business days. The Contractor shall provide an initial root cause analysis within 48 hours and then update the CA 9-1-1 Branch and PSAPs every five (5) business days until root cause is determined.

Root cause analysis shall identify the root cause of failure and corrective action to prevent a like failure in the future.

### **33 UNANTICIPATED/ NEW TECHNOLOGY TASKS (PNSP and RNSP)**

This Contract shall include Unanticipated/New Technology Tasks, the cost of which shall be calculated on an hourly basis per EXHIBIT 22, COST WORKBOOK. These tasks shall include only services, including work products, not specifically set forth in this Contract, but which are subsequently identified as in-scope and necessary for the successful delivery of the services described in this Contract. Prior to commencement of any work being performed for Unanticipated/ New Technology Tasks, the Contractor shall have received an approved Work Order Authorizations (WOA) for such work. The labor rates for Unanticipated/ New Technology Tasks shall not exceed the hourly rates as stated in EXHIBIT 22, COST WORKBOOK. WOAs for Unanticipated/New Technology Tasks shall include the Contractor's estimated number of hours required to complete the work, multiplied by the hourly labor rates specified in EXHIBIT 22, COST WORKBOOK. The CA 9-1-1 Branch will release payment for any WOA upon the CA 9-1-1 Branch acceptance criteria specified in the approved WOA in accordance with SOW section 36, BUDGET DETAIL AND PAYMENT PROVISIONS.

#### **33.1 Work ORDER AUTHORIZATIONS (PNSP and RNSP)**

- 1) The WOA establishes that the CA 9-1-1 Branch and Contractor have a common understanding of the scope, schedule, format, content (depth and breadth), estimated hours per task by staff member and acceptance criteria of work products required prior to the Contractor beginning work. The CA 9-1-1 Branch and Contractor will define and develop Acceptance Criteria and these tasks shall be assigned to the Contractor, including specific, measurable success factors, to be set forth in the WOA. The tasks and any potential work products must be listed in the WOA form. The WOA details Contractor services required to meet project objectives.



- 2) All Contractor work shall be authorized in advance via the WOA process, see SOW - Attachment 6 for the WOA form. Once the WOA has been reviewed and accepted the Contractor and CA 9-1-1 Branch NG9-1-1 Manager, or designee, will sign it. This will constitute acceptance of the WOA. The originally approved WOA will be retained by the CA 9-1-1 Branch NG9-1-1 Manager with copies sent to the Contractor.
- 3) It is understood and agreed by both parties that all of the terms and conditions of this contract shall remain in force with the inclusion of any such WOA.
- 4) If, in the performance of the work, the Contractor determines that the work approved through the WOA cannot be accomplished within the estimated work hours, the Contractor will immediately notify the CA 9-1-1 Branch NG9-1-1 Manager in writing of the Contractor's estimate additional hours to complete the work in full. Upon receipt of such notification, CA 9-1-1 Branch may:
  - a) Alter the scope of the WOA in order to define tasks that can be accomplished within the remaining estimated work hours by issuance of an approved WOA amendment or
  - b) Terminate the WOA.

#### **34 CONTRACTOR SERVICE ORDERING PROCESS – 9-1-1 TARIFFED SERVICES (PNSP and RNSP)**

In California the NG9-1-1 Service Provider is required to follow the steps outlined below when ordering items or services that are governed by CPUC tariffs. Once approved and submitted, invoices will be billed by the contractor to the CA 9-1-1 Branch for direct payment.

- 1) Prime Network Service Provider submits supporting documentation to CA 9-1-1 Branch

The contractor will submit the following to the CA 9-1-1 Branch:

- a) Copy of completed TDe-289 form (SOW Attachment 2 – TDe-289);
- b) Tariff pricing for each line item and reference to NG9-1-1 Tariff filing;
- c) Change in project pricing, including NRC and MRC, broken out by item or service.

A CA 9-1-1 Branch NG9-1-1 Manager will review the documents for compliance to the established tariffs and assign an internal tracking number to the overall project.

- 2) CA 9-1-1 Branch issues TDe-289 to contractor:

Once the documents have been reviewed and approved by the CA 9-1-1 Branch, the assigned NG9-1-1 Manager will generate a TDe-289 form. The form will be routed internally for CA 9-1-1 Designee signature. Once signed, the NG9-1-1 Manager will return an approved copy to the contractor. This will serve as official “approval” of the project and the contractor can proceed with ordering.

3) Contractor orders services/proceeds with project:

The Contractor may then order services and proceed with the project. All related invoices shall be submitted to the CA 9-1-1 Branch for direct payment, pursuant to the terms and conditions of the executed SOW.

### 35 INSURANCE REQUIREMENTS (PNSP and RNSP)

**Insurance Requirements** – Contractor shall comply with all requirements outlined in the one (1) General Provisions section and two (2) Contract Insurance Requirements outlined in this section. No payments will be made under this contract until contractor fully complies with all requirements.

1) **General Provisions Applying to All Policies**

- a) **Coverage Term** – Coverage needs to be in force for the complete term of the contract. If insurance expires during the term of the contract, a new certificate must be received by the State at least 30 days prior to the expiration of this insurance. Any new insurance must comply with the original contract terms of the contract;
- b) **Policy Cancellation or Termination & Notice of Non-Renewal** – Contractor is responsible to notify the State within five (5) business days of any cancellation, non-renewal or material change that affects required insurance coverage. New certificates of insurance are subject to the approval of the Department of General Services and the Contractor agrees no work or services will be performed prior to obtaining such approval. In the event Contractor fails to keep in effect at all times the specified insurance coverage, the State may, in addition to any other remedies it may have, terminate this Contract upon the occurrence of such event, subject to the provisions of this Contract;
- c) **Premiums, Assessments and Deductibles** – Contractor is responsible for any premiums, policy assessments, deductibles or self-insured retentions contained within their insurance program;
- d) **Primary Clause** – Any required insurance contained in this contract shall be primary, and not excess or contributory, to any other insurance carried by the State;
- e) **Insurance Carrier Required Rating** – All insurance companies must carry an AM Best rating of at least “A-” with a financial category rating of no lower

than VII. If the Contractor is self-insured for a portion or all of its insurance, review of financial information including a letter of credit may be required;

- f) **Endorsements** – Any required endorsements requested by the State must be physically attached to all requested certificates of insurance and not substituted by referring to such coverage on the certificate of insurance;
- g) **Inadequate Insurance** – Inadequate or lack of insurance does not negate the contractor's obligations under the contract;
- h) **Available Coverages/Limits** – All coverage and limits available to the contractor shall also be available and applicable to the State;
- i) **Satisfying an Self Insured Retention (SIR)** - All insurance required by this contract must allow the State to pay and/or act as the contractor's agent in satisfying any SIR. The choice to pay and/or act as the contractor's agent in satisfying any SIR is at the State's discretion;
- j) **Use of Subcontractors** - In the case of Contractor's utilization of subcontractors to complete the contracted scope of work, contractor shall include all subcontractors as insured's under Contractor's insurance or supply evidence of subcontractor's insurance to The State equal to policies, coverages, and limits required of Contractor.

## 2) **Contract Insurance Requirements**

Contractor shall display evidence of the following on a certificate of insurance evidencing the following coverages:

### a) **Commercial General Liability**

Contractor shall obtain, at Contractor's expense, and keep in effect during the term of this Contract, Commercial General Liability Insurance covering bodily injury, and property damage in a form and with coverages that are satisfactory to the State. This insurance shall include personal and advertising injury liability, products, completed operations, and contractual liability coverage for the indemnity provided under this Contract. Coverage shall be written on an occurrence basis in an amount not be less than \$1,000,000 per occurrence. Annual aggregate limit shall not be less than \$2,000,000. **The State of California, its officers, agents, and employees are to be covered as additional insureds with respect to liability arising out of work or operations.**

### b) **Automobile Liability**

Contractor shall maintain motor vehicle liability with limits of not less than \$1,000,000 combined single limit. Such insurance shall cover liability arising out of a motor vehicle including owned, hired, and non-owned motor vehicles. **The State of California, its officers, agents, and employees are to**

**be covered as additional insureds with respect to liability arising out of work or operations.**

c) **Workers' Compensation and Employer's Liability**

Workers' Compensation insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease. **Policy shall be endorsed to include a waiver of subrogation in favor of State of California.**

d) **Technology Professional Liability/Errors and Omissions Insurance**

appropriate to the Contractors profession and work hereunder, with limits not less than \$5,000,000 per occurrence. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by the Contractor in this agreement and shall include, but not be limited to, claims involving infringement of intellectual property, copyright, trademark, invasion of privacy violations, information theft, release of private information, extortion and network security. The policy shall provide coverage for breach response costs as well as regulatory fines and penalties as well as credit monitoring expenses with limits sufficient to respond to these obligations.

1. The Policy shall include, or be endorsed to include, **property damage liability coverage** for damage to, alteration of, loss of, or destruction of electronic data and/or information "property" of the State in the care, custody, or control of the Contractor. If not covered under the Contractors liability policy, such "property" coverage of the may be endorsed onto the Contractors Cyber Liability Policy as covered property as follows:

**Cyber Liability Coverage** in an amount sufficient to cover the full replacement value of damage to, alteration of, loss of, or destruction of electronic data and/or information "property" of the State that will be in the care, custody, or control of Vendor.

2. **If Policy is written on a claims-made basis provide the following:**

- a) The Retroactive Date must be shown, and must be before the date of the Contract or the beginning of contract work;
- b) Insurance must be maintained and evidence of insurance must be provided **for at least five (5) years after completion of the contract of work;**

- c) If coverage is canceled or non-renewed, and not replaced **with another claims-made policy form with a Retroactive Date prior to** the Contract effective date, the Contractor must purchase “extended reporting” coverage for a minimum of **five (5)** years after completion of work.

3) **Other Required Insurance Provisions.** Certificate of Insurance must also contain all of the following provisions:

- a) Name and address of the insurance company, the policy number, and the beginning and ending dates of the policy;
- b) Statement requiring the Insurer to provide written notice to Cal OES 30 calendar days prior to canceling Contractor's policy;
- c) Statement that CA 9-1-1 Branch, its officers, agents, servants and employees are included as additional insured on the policy, but only insofar as the services under this Contract are concerned;
- d) Statement that neither CA 9-1-1 Branch, nor any of its agencies, will be responsible for any premium or assessment on said policies;
- e) The Contractor shall submit the certificate of insurance, identifying the California Governor’s Office of Emergency Services contract number, to  
CA 9-1-1 Branch at the following address:

**California Governor’s Office of Emergency Services**  
*Procurement and Logistical Services*  
Attention:  
3650 Schriever Avenue  
Mather, CA 95655

To expedite processing, certificates may be faxed to: (916) 845-8303

### **36 BUDGET DETAIL AND PAYMENT PROVISIONS (PNSP and RNSP)**

- 1) The Contractor shall be limited to two (2) months of back billing including any reconciliation effort, on all services and functionality ordered under the Contract. Invoices presented more than 12 months after the formal acceptance of the service or functionality will not be considered valid and shall not be paid;
- 2) The Contractor shall reconcile incorrect invoices within 30 calendar days from the date of notification by CA 9-1-1 Branch of the discrepancy. CA 9-1-1 Branch shall suspend all current charges when unresolved disputed items extend beyond 90 days. Remittance shall resume to include any outstanding payments, upon resolution;
- 3) The Contractor shall issue invoices to CA 9-1-1 Branch for only those milestone services after system testing and acceptance, as agreed by CA 9-1-1 Branch. The NRC and the MRC shall be on separate invoices;
- 4) The Contractor shall render invoices for total monthly service charges following the month for which the charges accrue. Monthly service billing shall only be billed in full month increments after service has been rendered;
- 5) The Contractor shall provide invoices under this Contract in accordance with the CA 9-1-1 Branch Operations Manual. Example: Exhibit A, SOW, SOW - Attachment 1 NG9-1-1 SERVICE INVOICE TEMPLATE.
- 6) All invoices submitted to the CA 9-1-1 Branch as a result of this Contract will be billed separately from other charges the Contractor may currently be billing. Invoices not received in the approved format shall not be processed;
- 7) Payment for services performed under this contract shall not exceed the rates listed in EXHIBIT 22 COST WORKBOOK. It shall be the CA 9-1-1 Branch NG9-1-1 Manager's sole determination as to whether a service has been successfully completed and is acceptable;
- 8) Submit electronic invoices with reference to the Contract number to:

Email: [CA911Invoicing@caloes.ca.gov](mailto:CA911Invoicing@caloes.ca.gov)  
California Governor's Office of Emergency Services  
Public Safety Communications  
Attention: CA 9-1-1 Branch

9-1-1 Reconciliation Unit  
601 Sequoia Pacific Blvd., MS9-1-1  
Sacramento CA 95811

- 9) The Contractor shall not assess late fees for any reason.
- 10) The Contractor costs related to items such as travel or per diem are costs of the Contractor and will not be paid separately as part of this Contract.

**36.1 BUDGET CONTINGENCY CLAUSE (PNSP and RNSP)**

- 1) Payment will be made in accordance with, and within the time specified in, Government Code Chapter 4.5, commencing with Section 927. Payment to small/micro businesses shall be made in accordance with and within the time specified in Chapter 4.5, Government Code 927 et seq.
- 2) It is mutually agreed that if the Budget Act of the current year and/or any subsequent years covered under this Contract does not appropriate sufficient funds for the program, this Contract shall be of no further force and effect. In this event, CA 9-1-1 Branch shall have no liability to pay any funds whatsoever to the Contractor or to furnish any other considerations under this Contract and Contractor shall not be obligated to perform any provisions of this Contract.
- 3) If funding for any fiscal year is reduced or deleted by the Budget Act for purposes of this program, CA 9-1-1 Branch shall have the option to either cancel this Contract with no liability occurring to the CA 9-1-1 Branch, or offer an amendment to the Contract to reflect the reduced amount.

**SOW - ATTACHMENT 1: NG9-1-1 SERVICE INVOICE SAMPLE TEMPLATE**



**Logo  
Name**

**1**

Your Company Name  
 Street Address  
 City, ST ZIP Code  
 Phone

**2**

**DATE**  
Date

**3**

**CONTRACT/TRACKING NO**  
Number

**4**

**APPROVED AMOUNT**  
\$\$\$

**5**

**INVOICE NO**  
Number

**INVOICE TO:**

**6**

Cal OES, CA 9-1-1 BRANCH  
 Attn: Name/Project Name  
 601 Sequoia Pacific Blvd, MS-911  
 Sacramento, CA, 95811-0231

**SHIP TO:**

**7**

Co # Psap Name Svc Type  
 Attn: Name/ Psap Name  
 Street Address  
 City, ST ZIP Code **8**

**9** ← **10** → **11** **12**

TERMS	COUNTY CODE	PSAP LOCATION, DEPT TYPE	SERVICE NO	SERVICE PERIOD	DUE DATE

<b>13</b> ITEM #	<b>14</b> DESCRIPTION	<b>15</b> QUANTITY	<b>16</b> UNIT PRICE	<b>17</b> LINE TOTAL
	Product description	#Amount	\$Amount	\$Amount

**18**

Total  USD



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**SOW - ATTACHMENT 1a: NG9-1-1 SERVICE INVOICE TEMPLATE INSTRUCTIONS**

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- 1) NOTE: \* each section in the invoice template and the TDe-289 are numbered in red. CONTRACTOR: Name, Address and Direct contact number for inquires on this account (Ref. TDe-289 Contractor Name Part 1);
- 2) INVOICE NO: Invoice issue date;
- 3) CONTRACT/TRACKING NO: Contract number Ref. TDe-289 Part 3a) and state tracking number 'mandatory' (Ref. TDe-289 Part 3b);
- 4) APPROVED AMOUNT: cost approved on TDe-289 for one time or Recurring as applicable;
- 5) INVOICE NO: Contractor invoice number identifier;
- 6) INVOICE TO: (Ref. TDe-289 Part 6a)

Email: [CA911Invoicing@caloes.ca.gov](mailto:CA911Invoicing@caloes.ca.gov)

Cal OES, CA 9-1-1 Branch

601 Sequoia Pacific Blvd, MS-911

Sacramento, Ca 95811-0231

- 7) ATTN: 'name of NG9-1-1 Manager 'optional' (Ref. TDe-289 Part 6b) SHIP TO (1<sup>st</sup> LINE): County Code, PSAP name, Service Number (Ref. TDe-289 Part 10 or fill in the appropriate county code and service type following table 1 and 2, PSAP name refer to TDe-289 Part 8);
- 8) SHIP TO: PSAP name and the location address of your delivery service (Ref. TDe-289 Part 8);
- 9) TERMS: the invoice cycle for this service [ex: 1 means the first bill, etc.];
- 10) COUNTY CODE, PSAP LOCATION, DEPT TYPE, SERVICE TYPE: Replicate Section 7 (Ref. TDe-289 Part 10);
- 11) SERVICE PERIOD: date and month through date and month (ex: 07/01/2018 – 07/31/2018);
- 12) DUE DATE: the due date of the invoice;
- 13) NG SERVICE #: Next Generation Service number (Ref. TDe-289 Part 13);
- 14) DESCRIPTION: description of NG9-1-1 Service and reference to NG9-1-1 Tariff Filing (Ref. TDe-289 Part 14) [ex: PSAP location, size];
- 15) QUANTITY: unit of measure and number of services;
- 16) UNIT PRICE: U.S. dollar amount per quantity;
- 17) LINE TOTAL: per NG Service total amount;
- 18) TOTAL: total amount due.

NG9-1-1 Service Invoice Template Instructions

Table 1 County Code

CO #	COUNTY	CO #	COUNTY
01	Alameda	31	Placer
02	Alpine	32	Plumas
03	Amador	33	Riverside
04	Butte	34	Sacramento
05	Calaveras	35	San Benito
06	Colusa	36	San Bernardino
07	Contra Costa	37	San Diego
08	Del Norte	38	San Francisco
09	El Dorado	39	San Joaquin
10	Fresno	40	San Luis Obispo
11	Glenn	41	San Mateo
12	Humboldt	42	Santa Barbara
13	Imperial	43	Santa Clara
14	Inyo	44	Santa Cruz
15	Kern	45	Shasta
16	Kings	46	Sierra
17	Lake	47	Siskiyou
18	Lassen	48	Solano
19	Los Angeles	49	Sonoma
20	Madera	50	Stanislaus
21	Marin	51	Sutter
22	Mariposa	52	Tehama
23	Mendocino	53	Trinity
24	Merced	54	Tulare
25	Modoc	55	Tuolumne
26	Mono	56	Ventura
27	Monterey	57	Yolo
28	Napa	58	Yuba
29	Nevada	97	Cal Fire (statewide)
30	Orange	98	CHP (statewide)

Table 2 Service Type

SV #	Service Type	SV #	Service Type
27	Text to 9-1-1 Services	31	9-1-1 Statewide GIS
28	9-1-1 Trunk & Trans Services	32	9-1-1 Aggregation Services
29	NG 9-1-1 Core Services	32	Miscellaneous



**SOW - ATTACHMENT 3 - PSAP LIST**

California Statewide Statistics and PSAP Location Information

The California PSAPs listed below represent those funded by the CA 9-1-1 Branch. Not all PSAPs request/receive funding from the CA 9-1-1 Branch; therefore, the list is not inclusive of all PSAPs in California. Some NG9-1-1 Core Services with an ESINet exist today or are *planned* and are designated by "CE" or "CP". Some PSAPs contain Evergreen Network based Turnkey Call Handling Systems that are *existing* or *planned*, designated by "EE" or "EP". The remaining PSAPs are all Stand-Alone CPE, designated as "Blank" in the status field, or Host-Remote Call Handling Systems, designated with an "HS" as defined below.

The list designates if the PSAP currently received Text to 9-1-1 calls or is planning to but not yet deployed, but may be by the time the contract is awarded. All PSAPs without a predefined deliver modality will be determined at the time of deployment, if prior to contract award, or deploy with integrated text as defined in this contract.

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
1	8225	Alameda County Regional Fire/LLNL	Livermore		W / PD	11-29
2	523	Alameda County Sheriff's Department	San Leandro		W / D	6-10
3	524	Alameda Police Department	Alameda			6-10
4	525	Albany Police Department	Albany			1-5
5	526	Alhambra Police/Fire Department	Alhambra	EE, CP	W / D	1-5
6	528	Amador County Sheriff's Department	Jackson			1-5
7	530	Anaheim Police Department	Anaheim			11-29
8	532	Antioch Police Department	Antioch		W / D	6-10
9	533	Arcadia Police Department	Arcadia		W / D	1-5
10	534	Arcata Police Department	Arcata		I / PD	1-5
11	536	Arvin Police Department	Arvin		W / PD	1-5
12	537	Atascadero Police Department	Atascadero		W / D	1-5
13	538	Atherton Police Department	Atherton		W / D	1-5
14	539	Atwater Police Department	Atwater		W / PD	1-5
15	540	Auburn Police Department	Auburn	HS-P		1-5
16	542	Avalon Fire Department	Avalon		W / D	1-5
17	544	Azusa Police Department	Azusa		W / D	1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
18	545	Bakersfield Police Department	Bakersfield		W / PD	11-29
19	546	Baldwin Park Police Department	Baldwin Park		W / D	1-5
20	547	Banning Police Department	Banning		W / D	1-5
21	548	Barstow Police Department	Barstow		W / D	1-5
22	8114	Bay Area Rapid Transit (BART) Police Dept.	Oakland			1-5
23	551	Beaumont Police Department	Beaumont		W / D	1-5
24	552	Bell Gardens Police Department	Bell Gardens		W / PD	1-5
25	553	Bell Police Department	Bell			1-5
26	554	Belmont Police Department	Belmont		W / D	1-5
27	555	Benicia Police Department	Benicia			1-5
28	556	Berkeley Police/Fire Communications Center	Berkeley			6-10
29	558	Beverly Hills Police Department	Beverly Hills	EE, CP	W / D	1-5
30	560	Bishop Police Department	Bishop			1-5
31	561	Blythe Police Department	Blythe			1-5
32	562	Brawley Police Department	Brawley	HS-I	W / D	1-5
33	563	Brea Police Department	Brea			6-10
34	8531	Brentwood Police Department	Brentwood		W/ PD	1-5
35	567	Buena Park Police Department	Buena Park			6-10
36	568	Burbank Police Department	Burbank	EE, CP	W / D	1-5
37	569	Burlingame Police Department	Burlingame		W / D	1-5
38	571	Butte County Sheriff's Department	Oroville	CP, HS-B	I / D	6-10
39	574	Calaveras County Sheriff's Department	San Andreas			1-5
40	576	Calexico Police Department	Calexico	HS-I	W / PD	1-5
41	589	CAL-FIRE Camino (Amador/El Dorado Unit)	Camino			6-10
42	599	CAL-FIRE El Cajon (San Diego Unit)	El Cajon			6-10
43	601	CAL-FIRE Felton (San Mateo/Santa Cruz)	Felton			1-5
44	725	CAL-FIRE Fortuna (Humboldt/Del Norte Unit)	Fortuna			1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
45	591	CAL-FIRE Fresno (Fresno/Kings Unit)	Fresno			1-5
46	596	CAL-FIRE Grass Valley (Nevada/Yuba/Placer)	Grass Valley			6-10
47	592	CAL-FIRE Mariposa (Madera/Mariposa/Merced)	Mariposa			1-5
48	594	CAL-FIRE Monterey (San Benito/Monterey)	Monterey			1-5
49	602	CAL-FIRE Morgan Hill (Santa Clara Unit)	Morgan Hill			1-5
50	570	CAL-FIRE Oroville (Butte Unit)	Oroville	CP, HS-B	I / D	1-5
51	597	CAL-FIRE Perris (Riverside Unit)	Perris			11-29
52	605	CAL-FIRE Red Bluff (Tehama/Glenn Unit)	Red Bluff	CP		1-5
53	603	CAL-FIRE Redding (Shasta/Trinity Unit)	Redding	CP		1-5
54	606	CAL-FIRE San Andreas (Tuolumne/Calaveras)	San Andreas			1-5
55	598	CAL-FIRE San Bernardino (San Bernardino)	San Bernardino			1-5
56	600	CAL-FIRE San Luis Obispo (San Luis Obispo)	San Luis Obispo			1-5
57	595	CAL-FIRE St Helena (Sonoma/Lake/Napa)	St Helena			1-5
58	992	CAL-FIRE Susanville (Lassen/Modoc Unit)	Susanville	CP		1-5
59	1004	CAL-FIRE Visalia (Tulare Unit)	Visalia			1-5
60	593	CAL-FIRE Willits (Mendocino Unit)	Willits			1-5
61	607	CAL-FIRE Yreka (Siskiyou Unit)	Yreka	CP		1-5
62	577	California City Police Department	California City		W / PD	1-5
63	579	Calistoga Police Department	Calistoga			1-5
64	581	Campbell Police Department	Campbell			1-5
65	582	Carlsbad Police Department	Carlsbad			1-5
66	584	Carmel Police Department	Carmel		W / D	1-5
67	587	Cathedral City Police Department	Cathedral City		W / D	6-10
68	609	Ceres Police Department	Ceres			6-10

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
69	8116	Cerritos College Police Department	Norwalk		W / D	1-5
70	610	Chico Police Department	Chico	CP, HS-B	I / D	6-10
71	612	Chino Police Department	Chino		W / D	6-10
72	613	Chowchilla Police Department	Chowchilla			1-5
73	637	CHP Atwater (Merced)	Atwater		W / PD	30+
74	614	CHP Bakersfield (Kern)	Bakersfield		W / PD	11-29
75	615	CHP Barstow (San Bernardino)	Barstow		W / D	1-5
76	616	CHP Bishop (Inyo)	Bishop		W / PD	11-29
77	617	CHP Border Comm Center	San Diego		W / PD	30+
78	618	CHP Capitol Communications Center	Sacramento		W / PD	1-5
79	619	CHP Chico (Butte)	Chico	CP	W / D	1-5
80	620	CHP El Centro (Imperial)	Imperial		W / D	1-5
81	623	CHP Eureka (Humboldt)	Arcata		W / PD	1-5
82	621	CHP Fresno	Fresno		W / PD	1-5
83	624	CHP Indio (Riverside)	Indio		W / PD	11-29
84	625	CHP Inland (San Bernardino)	Fontana		W / D	30+
85	639	CHP Irvine (Orange)	Irvine		W / PD	11-29
86	626	CHP Los Angeles	Los Angeles		W / D	30+
87	641	CHP Rancho Cordova (Sacramento)	Rancho Cordova		W / D	30+
88	640	CHP Redding (Shasta)	Redding	CP	W / PD	1-5
89	638	CHP Salinas (Monterey)	Salinas		W / D	11-29
90	642	CHP San Luis Obispo	San Luis Obispo		W / D	1-5
91	643	CHP Stockton (San Joaquin)	Stockton		W / PD	11-29
92	644	CHP Susanville (Lassen)	Susanville	CP	W / PD	1-5
934	647	CHP Ukiah (Mendocino)	Ukiah		W / PD	6-10
95	622	CHP Vallejo/Golden Gate (Solano)	Vallejo		W / D	11-29
96	648	CHP Ventura	Ventura		W / PD	11-29
97	649	CHP Yreka (Siskiyou)	Yreka	CP	W / PD	1-5
98	650	Chula Vista Police Department	Chula Vista			6-10
99	8255	Citrus Heights Police Department	Citrus Heights		W / PD	6-10
100	653	Claremont Police Department	Claremont		W / D	1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
101	654	Cloverdale Police Department	Cloverdale			1-5
102	655	Clovis Police Department	Clovis			1-5
103	658	Coalinga Police Department	Coalinga			1-5
104	659	Coloma Police Department	Coloma		W / PD	1-5
105	660	Colton Police Department	Colton		W / D	6-10
106	661	Colusa County Sheriff's Department	Colusa	CP		1-5
107	663	Concord Police Department	Concord		W / PD	6-10
108	911	CONFIRE - San Bernardino County Fire (Rialto)	Rialto		W / D	11-29
109	665	Contra Costa County Fire Protection District	Pleasant Hill		W / PD	6-10
110	666	Contra Costa County Sheriff's Department	Martinez		W / PD	6-10
111	667	Corcoran Police Department	Corcoran			1-5
112	669	Corning Fire Department	Corning	CP		1-5
113	668	Corning Police Department	Corning	CP		1-5
114	670	Corona Police Department	Corona			6-10
115	671	Coronado Police Department	Coronado			1-5
116	672	Costa Mesa Police Department	Costa Mesa			6-10
117	673	Cotati Police Department	Cotati			1-5
118	674	Covina Police Department	Covina		W / D	1-5
119	8074	CSU Channel Island Police Department	Camarillo			1-5
120	677	CSU Chico Police Department	Chico	CP, HS-B	I / D	1-5
121	678	CSU Dominguez Hills Police Department	Carson		W / D	1-5
122	8115	CSU East Bay Police Department	Hayward		W / PD	1-5
123	679	CSU Fresno Police Department	Fresno			1-5
124	680	CSU Fullerton Police Department	Fullerton			1-5
125	758	CSU Humboldt Police Department	Arcata			1-5
126	8118	CSU Long Beach University Police	Long Beach		W / D	1-5
127	681	CSU Los Angeles Police Department	Los Angeles		W / D	1-5



#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
128	682	CSU Northridge University Police	Northridge		W / D	1-5
129	573	CSU Pomona (Cal Poly) Police Department	Pomona		W / D	1-5
130	683	CSU San Bernardino Police Department	San Bernardino		W / D	1-5
131	684	CSU San Diego Police Department	San Diego			1-5
132	929	CSU San Francisco Police Department	San Francisco			1-5
133	685	CSU San Jose Police Department	San Jose			1-5
134	8124	CSU San Luis Obispo (Cal Poly) Police Dept.	San Luis Obispo		W / PD	1-5
135	8256	CSU San Marcos Police Department	San Marcos			1-5
137	691	Davis Police Department	Davis		W / PD	1-5
138	692	Del Norte County Sheriff's Department	Crescent City			1-5
139	693	Delano Police Department	Delano		W / PD	1-5
140	694	Dinuba Police Department	Dinuba			1-5
141	8231	Dos Palos Police Department (Westside Regional Comm)	Dos Palos		W / PD	1-5
142	695	Downey Fire Department	Downey		W / D	1-5
143	696	Downey Police Department	Downey		W / D	6-10
144	697	East Bay Regional Park District	Castro Valley			1-5
145	702	El Cajon Police Department	El Cajon			1-5
146	703	El Camino Community College District Police	Torrance		W / D	1-5
147	705	El Centro Police Department	El Centro	HS-I	W / D	1-5
148	708	El Dorado County Sheriff's Department	Placerville		W / PD	1-5
149	709	El Monte Police Department	El Monte		W / D	6-10
150	8155	Elk Grove Police Department	Elk Grove		W / D	6-10
151	711	Emeryville Police Department	Emeryville			1-5
152	713	Escondido Police Department	Escondido			6-10
153	715	Eureka Police Department	Eureka			6-10
154	717	Fairfax Police Department	Fairfax			1-5
155	718	Fairfield Police Department	Fairfield			1-5
156	722	Firebaugh Police Department	Firebaugh			1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
157	723	Folsom Police Department	Folsom		I / PD	1-5
158	724	Fontana Police Department	Fontana		W / D	6-10
159	726	Fortuna Police Department	Fortuna			1-5
160	727	Foster City Police Department	Foster City		W / D	1-5
161	728	Fountain Valley Police Department	Fountain Valley			1-5
162	730	Fremont Police Department	Fremont			6-10
163	731	Fresno County EMS	Fresno			6-10
164	732	Fresno County Sheriff's Department	Fresno			6-10
165	733	Fresno Police Department	Fresno			11-29
166	737	Fullerton Police Department	Fullerton			6-10
167	738	Galt Police Department	Galt		W / PD	1-5
168	739	Garden Grove Police Department	Garden Grove			6-10
169	740	Gilroy Police Communications	Gilroy			1-5
170	741	Glendale Police Department	Glendale	EE,CP	W / D	6-10
171	742	Glendora Police Department	Glendora		W / D	1-5
172	743	Glenn County Sheriff's Department	Willows	CP		1-5
173	745	Gridley Police Department	Gridley	CP, HS-B	I / D	1-5
174	746	Grover Beach Police Department	Grover Beach		W / PD	1-5
175	748	Hanford Police Department	Hanford			1-5
176	749	Hayward Police Department	Hayward		W / D	6-10
177	750	Healdsburg Police Department	Healdsburg			1-5
178	751	Heartland Communications Facility Authority-Fire	El Cajon			6-10
179	752	Hemet Police Department	Hemet			1-5
180	754	Hillsborough Police Department	Hillsborough		W / PD	1-5
181	757	Humboldt County Sheriff's Department	Eureka			1-5
182	759	Huntington Beach Police Department	Huntington Beach			6-10
183	760	Huntington Park Police Department	Huntington Park		W / D	1-5
184	761	Huron Police Department	Huron			1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
185	764	Imperial County Sheriff's Department	El Centro	HS-I	W / D	1-5
186	765	Indio Police Department	Indio		W / D	1-5
187	766	Inglewood Police/Fire Department Comm.	Inglewood		W / D	6-10
188	767	Inyo County Sheriff's Department	Independence			1-5
189	768	Irvine Police Department	Irvine			6-10
190	769	Irwindale Police Department	Irwindale		W / D	1-5
191	8242	Kern County Fire Department	Bakersfield		W / PD	11-29
192	771	Kern County Sheriff's Department	Bakersfield		W / PD	11-29
193	772	Kings County Sheriff's Department	Hanford			6-10
194	774	La Habra Police Department	La Habra			1-5
195	775	La Mesa Police Department	La Mesa			1-5
196	776	La Palma Police Department	La Palma			1-5
197	777	La Verne Police/Fire Department	La Verne		W / D	1-5
198	778	Laguna Beach Police Department	Laguna Beach			1-5
199	779	Lake County Sheriff's Department	Lakeport		I / PD	1-5
200	586	LASD - Carson Sheriff's Station	Carson	HS-LAS	W / D	1-5
201	608	LASD - Century Sheriff's Station	Lynwood	HS-LAS	W / D	6-10
202	8117	LASD - Cerritos Sheriff's Station	Cerritos	HS-LAS	W / D	1-5
203	662	LASD - Compton Sheriff's Station	Compton	HS-LAS	W / D	6-10
204	676	LASD - Crescenta Valley Sheriff's Station	La Crescenta	HS-LAS	W / D	1-5
205	698	LASD - East Los Angeles Sheriff's Station	Los Angeles	HS-LAS	W / D	1-5
206	652	LASD - Industry Sheriff's Station	City of Industry	HS-LAS	W / D	6-10
207	780	LASD - Lakewood Sheriff's Station	Lakewood	HS-LAS	W / D	6-10
208	781	LASD - Lancaster Sheriff's Station	Lancaster	HS-LAS	W / D	6-10
209	790	LASD - Lomita Sheriff's Station	Lomita	HS-LAS	W / D	1-5
210	805	LASD - Lost Hills/Malibu Sheriff's Station-Agoura	Calabasas	HS-LAS	W / D	1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
211	811	LASD - Marina Del Rey Sheriff's Station	Marina Del Rey	HS-LAS	W / D	1-5
212	8263	LASD - Metro Transportation Authority	Los Angeles	HS-LAS	W / D	1-5
213	849	LASD - Norwalk Sheriff's Station	Norwalk	HS-LAS	W / D	6-10
214	864	LASD - Palmdale Sheriff's Station	Palmdale	HS-LAS	W / D	1-5
215	872	LASD - Pico Rivera Sheriff's Station	Pico Rivera	HS-LAS	W / D	1-5
216	926	LASD - San Dimas Sheriff's Station	San Dimas	HS-LAS	W / D	1-5
217	955	LASD - Santa Clarita Valley Sheriff's Station	Valencia	HS-LAS	W / D	1-5
218	784	LASD - South Los Angeles Sheriff's Station	Los Angeles	HS-LAS	W / D	6-10
219	997	LASD - Temple City Sheriff's Station	Temple City	HS-LAS	W / D	6-10
220	1040	LASD - Walnut/Diamond Bar Sheriff's Station	Walnut	HS-LAS	W / D	1-5
221	1045	LASD - West Hollywood Sheriff's Station	Los Angeles	HS-LAS	W / D	1-5
222	782	Lassen County Sheriff's Department	Susanville	CP		1-5
223	785	Lincoln Police Department	Lincoln	HS-P		1-5
225	787	Livermore Police Department	Livermore		W / PD	1-5
226	788	Livingston Police Department	Livingston		I / PD	1-5
227	789	Lodi Police Department	Lodi			1-5
228	791	Lompoc Police Department	Lompoc			1-5
229	792	Long Beach Fire Department	Long Beach		W / D	6-10
230	794	Long Beach Police Department	Long Beach		W / D	11-29
231	796	Los Altos Police Department	Los Altos	HS-SC	I / PD	1-5
232	799	Los Angeles City Fire Department	Los Angeles		W / D	30+
233	797	Los Angeles County Fire	Los Angeles		W / D	11-29
234	800	Los Angeles Police Department	Los Angeles		W / D	30+
235	801	Los Banos Police Department	Los Banos		W / PD	1-5
236	802	Los Gatos Police Communications	Los Gatos		I / PD	1-5
237	803	Madera County Sheriff	Madera			1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
238	804	Madera Police Department	Madera			1-5
239	806	Manteca Police Department	Manteca			1-5
240	808	Marin County Fire Department	Woodacre		I / PD	1-5
241	810	Marin County Sheriff's Department	San Rafael		I / PD	6-10
242	812	Mariposa County Sheriff's Department	Mariposa			1-5
243	813	Martinez Police Department	Martinez		W / D	1-5
244	814	Marysville Police Department	Marysville	CP		1-5
245	8264	McFarland Police Department	McFarland		W / PD	1-5
246	816	Mendocino County Sheriff's Department	Ukiah	HS-M	I / PD	6-10
247	817	Menlo Park Police Department	Menlo Park		W / D	1-5
248	819	Merced County Sheriff's Department	Merced		W / PD	1-5
249	820	Merced Emergency Medical Services	Merced		W / PD	1-5
250	821	Merced Police Department	Merced		W / PD	1-5
251	822	MetroNet - Metro Cities Fire Authority Comm. Center	Anaheim			6-10
252	825	Milpitas Police Department	Milpitas		I / PD	1-5
253	826	Modoc County Sheriff's Department	Alturas	CP		1-5
254	827	Mono County Sheriff's Department	Bridgeport			1-5
255	828	Monrovia Police Department	Monrovia		W / D	1-5
256	829	Montclair Police Department	Montclair		W / D	1-5
257	830	Montebello Police Department	Montebello		W / D	1-5
258	831	Montecito Fire Protection District	Montecito			1-5
259	835	Monterey County Emergency Communications	Salinas		W / D	11-29
260	834	Monterey Park Police/Fire Department	Monterey Park		W / PD	6-10
261	836	Morgan Hill Police Communications	Morgan Hill			1-5
262	838	Mountain View Police/Fire Department	Mountain View	HS-SC	I / PD	1-5
263	839	Mt. Shasta Police Department	Mt Shasta	CP		1-5
264	840	Murrieta Police Department	Murrieta			6-10

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
265	841	Napa County Communications	Napa			6-10
266	8126	NASA AMES Police Department	Moffett Field			1-5
267	842	National City Police Department	National City			1-5
268	844	Nevada County Sheriff's Department	Nevada City		I / PD	1-5
269	846	Newark Police/Fire Department	Newark			1-5
270	847	Newport Beach Police Department	Newport Beach			6-10
271	887	North County Dispatch	Rancho Santa Fe			6-10
272	850	Novato Police Department	Novato			1-5
273	851	Oakdale Police Department	Oakdale			1-5
274	852	Oakland Fire Department	Oakland			6-10
275	853	Oakland Police Department	Oakland			11-29
276	854	Oceanside Police Department	Oceanside			6-10
277	8479	Ontario Fire Department	Ontario		W / D	6-10
278	856	Ontario Police Department	Ontario		W / D	11-29
279	857	Orange County Fire Authority	Irvine			6-10
280	8257	Orange County Sheriff (Harbor Patrol/Newport Beach)	Corona Del Mar			1-5
281	858	Orange County Sheriff's Department	Silverado			11-29
282	859	Orange Police Department	Orange			6-10
283	860	Oroville Police Department	Oroville	CP, HS-B	I / D	1-5
284	861	Oxnard Police/Fire Department	Oxnard	HS-V		6-10
285	863	Palm Springs Police/Fire Department	Palm Springs		W / D	6-10
286	865	Palo Alto Police Department	Palo Alto	HS-SC	I / PD	6-10
287	866	Palos Verdes Estates Police/Fire Dept.	Palos Verdes		W / D	1-5
288	867	Paradise Police Department	Paradise	CP, HS-B	I / D	1-5
289	868	Pasadena Police Department	Pasadena	EE,CP	W / D	6-10
290	869	Paso Robles Police Department	Paso Robles		W / D	1-5
291	871	Petaluma Police Department	Petaluma			1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
292	873	Piedmont Police Department	Piedmont			1-5
293	874	Pinole Police Department	Pinole		W / PD	1-5
294	875	Pismo Beach Police Department	Pismo Beach		W / D	1-5
295	876	Placentia Police Department	Placentia			1-5
296	877	Placer County Sheriff's Department	Auburn	HS-P		6-10
297	7957	Placerville Police Department	Placerville		W / PD	1-5
298	879	Pleasant Hill Police Department	Pleasant Hill		W / PD	1-5
299	880	Pleasanton Police Department	Pleasanton			1-5
300	881	Plumas County Sheriff's Department	Quincy	CP		1-5
301	882	Pomona Police Department	Pomona		W / D	6-10
302	883	Port Hueneme Police Department	Port Hueneme			1-5
303	885	Porterville Police Department	Porterville			1-5
304	888	Red Bluff Police Department	Red Bluff	CP	I / PD	1-5
305	889	Redlands Police Department	Redlands		W / D	6-10
306	891	Redondo Beach Police/Fire Department	Redondo Beach		W / D	1-5
307	892	Redwood City Police Department	Redwood City		W / D	6-10
308	893	Reedley Police Department	Reedley			1-5
309	895	Rialto Police Department	Rialto		W / D	6-10
310	897	Richmond Police Department	Richmond		W / D	6-10
311	898	Ridgecrest Police Department	Ridgecrest		W / PD	1-5
312	899	Ripon Police Department	Ripon			1-5
313	8120	Riverside County Sheriff's Department	Blythe	HS-R		1-5
314	8121	Riverside County Sheriff's Department	Palm Desert	HS-R		6-10
315	900	Riverside County Sheriff's Department	Riverside	HS-R		11-29
316	901	Riverside Police Department	Riverside		W / PD	11-29
317	902	Rocklin Police Department	Rocklin	HS-P		1-5
318	903	Rohnert Park Police Department	Rohnert Park			1-5
319	904	Roseville Police Department	Roseville	HS-P		6-10

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
320	906	Sacramento City Police Department	Sacramento		W / PD	11-29
321	905	Sacramento County Sheriff's Department	Elk Grove		W / PD	11-29
322	907	Sacramento Regional Fire Emergency Comm. Center - SRFECC	Sacramento			11-29
323	912	San Bernardino County Sheriff Dept.-Rialto/Valley	Rialto		W / D	11-29
324	915	San Bernardino County Sheriff's Department (Victorville/Desert)	Hesperia		W / D	11-29
325	917	San Bernardino Police Department	San Bernardino		W / D	11-29
326	918	San Bruno Police Department	San Bruno		W / D	1-5
327	922	San Diego County Lifeguards	San Diego			1-5
328	923	San Diego County Sheriff's Department	San Diego			11-29
329	924	San Diego Fire Communications/Metro Zone Command	San Diego			11-29
330	8258	San Diego Harbor Police Department	San Diego			1-5
331	925	San Diego Police Department	San Diego			30+
332	927	San Fernando Police Department	San Fernando	EE,CP	W / D	1-5
333	588	San Francisco Dept. Emergency Management	San Francisco		I / PD	30+
334	8125	San Francisco International Airport Police	South San Francisco		W / PD	1-5
335	931	San Gabriel Police Department	San Gabriel	EE,CP	W / D	1-5
336	933	San Joaquin County Sheriff's Department (Stockton/French Camp)	French Camp		W / PD	6-10
337	935	San Jose Police/Fire Communications	San Jose		W / PD	30+
338	936	San Leandro Police Department	San Leandro			6-10
339	937	San Luis Obispo County Sheriff's Department	San Luis Obispo		W / D	6-10



#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
340	938	San Luis Obispo Police Department	San Luis Obispo		W / D	1-5
341	939	San Marino Police Department	San Marino		W / D	1-5
342	940	San Mateo County Communications	Redwood City			6-10
343	941	San Mateo Police Department	San Mateo		W / D	1-5
344	944	San Rafael Police Department	San Rafael			1-5
345	945	San Ramon Valley Fire Protection District	San Ramon		W / PD	1-5
346	948	Santa Ana Police Department	Santa Ana			11-29
347	950	Santa Barbara County Sheriff's Department	Santa Barbara		W / PD	6-10
348	951	Santa Barbara Police Department	Santa Barbara		W / PD	6-10
349	952	Santa Clara County Sheriff's Department Comm	San Jose			6-10
350	954	Santa Clara Police Department	Santa Clara		W / D	6-10
351	956	Santa Cruz Regional 9-1-1	Santa Cruz		W / D	11-29
352	958	Santa Maria Police Department	Santa Maria			6-10
353	960	Santa Monica Police Department	Santa Monica		W / D	11-29
354	961	Santa Paula Police Department	Santa Paula			1-5
355	962	Santa Rosa Police Department	Santa Rosa			6-10
356	964	Scotts Valley Police Department	Scotts Valley		I / PD	1-5
357	965	Sebastopol Police Department	Sebastopol			1-5
358	966	Selma Police Department	Selma			1-5
359	968	Shafter Police Department	Shafter		W / PD	1-5
360	969	Shasta County Comm. Center - SHASCOM	Redding	CP	W / PD	6-10
361	971	Sierra County Sheriff's Department	Downieville	CP		1-5
362	972	Sierra Madre Police/Fire Department	Sierra Madre	EE,CP	W / D	1-5
363	973	Signal Hill Police Department	Signal Hill		W / D	1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
364	974	Simi Valley Police Department	Simi Valley	HS-V	W / PD	1-5
365	975	Siskiyou County Sheriff's Department	Yreka			1-5
366	976	Solano County Sheriff	Fairfield			6-10
367	8259	Sonoma County REDCOM Fire & EMS	Santa Rosa			6-10
368	977	Sonoma County Sheriff's Department	Santa Rosa			6-10
369	979	Sonora Police Department	Sonora			1-5
370	980	South Bay Regional Public Comm. Authority	Hawthorne		W / D	6-10
371	981	South Gate Police Department	South Gate		W / D	6-10
372	983	South Lake Tahoe Police Department	South Lake Tahoe			1-5
373	984	South Pasadena Police/Fire Department	South Pasadena		W / D	1-5
374	985	South San Francisco Police Department	South San Francisco		I / D	6-10
375	986	St. Helena Police Department	St. Helena			1-5
376	988	Stanislaus Regional 9-1-1	Modesto			11-29
377	8260	Stockton Fire Department	Stockton			6-10
378	989	Stockton Police Department	Stockton		W / PD	11-29
379	990	Suisun City Police Department	Suisun		I / PD	1-5
380	991	Sunnyvale Police Department	Sunnyvale		W / D	6-10
381	993	Sutter County Sheriff's Department	Yuba City	CP		1-5
382	994	Taft Police Department	Taft		W / PD	1-5
383	996	Tehama County Sheriff's Department	Red Bluff	CP		1-5
384	1000	Torrance Police Department	Torrance		W / D	11-29
385	1001	Tracy Police Department	Tracy			1-5
386	1003	Trinity County Sheriff's Department	Weaverville	CP		1-5
387	8261	Tulare County Consolidated Ambulance Dispatch - TCCAD	Tulare			1-5
388	8262	Tulare County Fire Department	Farmersville			1-5
389	1005	Tulare County Sheriff's Department	Visalia			11-29
390	1006	Tulare Police Department	Tulare			6-10

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
391	1008	Tuolumne County Sheriff's Department	Sonora		I / PD	1-5
392	1009	Turlock Police Department	Turlock			6-10
393	1010	Tustin Police Department	Tustin			1-5
394	1012	UC Berkeley Police Department	Berkeley			1-5
395	1013	UC Davis Police Department	Davis		W / PD	1-5
396	1014	UC Irvine Police Department	Irvine			1-5
397	1015	UC Los Angeles Police Department	Los Angeles		W / D	1-5
398	8173	UC Merced Police Department	Merced		W / PD	1-5
399	1016	UC Riverside Police Department	Riverside		W / PD	1-5
400	1017	UC San Diego Police Department	La Jolla			1-5
401	1018	UC San Francisco Police Department	San Francisco			1-5
402	1019	UC Santa Barbara Police Department	Santa Barbara		W / PD	1-5
403	1020	UC Santa Cruz Police Department	Santa Cruz			1-5
404	1021	Ukiah Police Department	Ukiah	HS-M	I / PD	1-5
405	1023	Upland Police Department	Upland		W / D	6-10
406	549	US Air Force Beale AFB SFCC	Beale AFB			1-5
407	700	US Air Force Edwards AFB Fire Department	Edwards AFB		W / PD	1-5
408	1002	US Air Force Travis AFB	Travis AFB			1-5
409	1031	US Air Force Vandenberg AFB Police/Fire Dept.	Vandenberg AFB		W / PD	1-5
410	734	US Army Fort Hunter Liggett Police Department	Ft Hunter Liggett		W / D	1-5
411	736	US Army Fort Irwin Provost Marshall (MP)	Fort Irwin			1-5
412	886	US Army Presidio of Monterey Dispatch Center	Presidio of Monterey		W / D	1-5
413	1025	US Park Police Golden Gate NRA	San Francisco			1-5
414	967	US Sequoia National Park	Three Rivers			1-5
415	1053	US Yosemite National Park	El Portal			1-5
416	580	USMC Camp Pendleton JECC	Camp Pendleton			1-5

#	FCC ID	PSAP NAME	LOCATION	STATUS	TEXT	# OF POS RANGE
417	8075	USMC Logistics Base Barstow - NEBO Provost Marshall	Barstow			1-5
418	8123	USMC Miramar Air Station Police/Fire Dept.	San Diego			1-5
419	1027	USMC Twenty-Nine Palms Combat Center - Fire	Twenty-Nine Palms			1-5
420	1029	Vacaville Police Department	Vacaville			6-10
421	1030	Vallejo Police Department	Vallejo			6-10
422	987	Valley Regional Emergency Comm Center	Modesto			11-29
423	1033	Ventura County Fire Protection District	Camarillo			6-10
424	1032	Ventura County Sheriff's Department	Ventura	HS-V		6-10
425	1034	Ventura Police Department	Ventura			6-10
426	1035	Verdugo Fire Department	Glendale	EE,CP	W / D	6-10
427	1036	Vernon Police Department	Vernon		W / D	1-5
428	1038	Visalia Police Department	Visalia			6-10
429	1039	Walnut Creek Police Department	Walnut Creek		W / PD	1-5
430	1042	Weed Police Department	Weed	CP		1-5
431	1044	West Covina Police/Fire Department	West Covina	EP,CP	W / D	1-5
432	1043	WEST-COMM - West Cities Police Comm Center	Seal Beach			6-10
433	1046	Westminster Police Department	Westminster			6-10
434	1047	Whittier Police Department	Whittier		W / PD	1-5
435	1048	Willits Police Department	Willits	HS-M	I / PD	1-5
436	1035	Willows Fire Department	Willows	CP		1-5
437	1051	Yolo Emergency Communications Agency YECA	Woodland		W / PD	6-10
438	1054	Yreka Police Department	Yreka	CP		1-5
439	1055	Yuba City Police Department	Yuba City	CP	I / PD	1-5
440	1056	Yuba County Sheriff's Department	Marysville	CP		1-5

\*Updated PSAP tables will be provided to the Contractor upon contract execution.

Blank – CPE Stand-Alone  
 HS – CPE Host-Remote System  
 HS – B (Butte)  
 HS – I (Imperial)  
 HS – LAS (Los Angeles Sheriff)  
 HS – P (Placerville)  
 HS – R (Riverside)

HS – SC (Santa Clara)  
 HS – V (Ventura)  
 CE – Core Existing  
 CP – Core Planned  
 EE – Evergreen Existing  
 EP – Evergreen Planned

W / D – Text Existing Web Based Service Deployed  
 I / D – Text Existing Integrated Service Deployed  
 W / PD – Text Planned or Pending Web Based Deployment  
 I / PD – Text Planned or Pending Integrated Deployment

Table 1: Statewide Overview

<b>Number of PSAPs<sup>1</sup></b>	<b>440</b>
<b>Total Population<sup>2</sup></b>	<b>39,536,653</b>
<b>2017 Total 9-1-1 Call Volume<sup>3</sup></b>	<b>28,129,927</b>
<b>Average Monthly 9-1-1 Call Volume<sup>4</sup></b>	<b>2,319,585</b>
<b>2017 Busiest Month 9-1-1 Call Volume<sup>5</sup></b>	<b>2,840,116</b>
<b>Average Busy Hour 9-1-1 Call Volume<sup>6</sup></b>	<b>4,751</b>
<b>2017 Busiest Hour 9-1-1 Call Volume<sup>7</sup></b>	<b>36,736</b>
<b>Average Call Duration in Seconds<sup>8</sup></b>	<b>99.94</b>

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<sup>1</sup> Data updated February 2019, will be 438 as of April 1, 2019

<sup>2</sup> U.S. Census Bureau, Population estimates, July 1, 2017

<sup>3</sup> Source: Cal OES Official Published Call Statistics in 2017 (include CHP Golden Gate 2016 counts due to long term outage in 2017)

<sup>4</sup> Statewide sum total of the average 2017 monthly call volume for each PSAP

<sup>5</sup> Statewide sum total of the 2017 busiest month call volume for each PSAP

<sup>6</sup> Statewide sum total of the average 2017 busy hour call volume for each PSAP

<sup>7</sup> Statewide sum total of the 2017 busiest hour call volume for each PSAP

<sup>8</sup> Statewide average of the 2017 9-1-1 average call duration for each PSAP

Table 2: Average Region Overview

<b>Average Number of PSAPs<sup>9</sup></b>	<b>110</b>
<b>Average Total Population<sup>10</sup></b>	<b>9,499,970</b>
<b>Average 2017 Total 9-1-1 Call Volume<sup>11</sup></b>	<b>6,711,175</b>
<b>Average 2017 Monthly 9-1-1 Call Volume<sup>12</sup></b>	<b>579,896</b>
<b>Average 2017 Busiest Month 9-1-1 Call Volume<sup>13</sup></b>	<b>710,029</b>
<b>Average Busy Hour 9-1-1 Call Volume<sup>14</sup></b>	<b>1,188</b>
<b>Average 2017 Busiest Hour 9-1-1 Call Volume<sup>15</sup></b>	<b>9,184</b>
<b>Average Call Duration in Seconds<sup>16</sup></b>	<b>100</b>

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<sup>9</sup> Data updated February 2019, Largest Region has 163, smallest is 79.

<sup>10</sup> U.S. Census Bureau, Population estimates, July 1, 2017

<sup>11</sup> Source: Cal OES Official Published Call Statistics in 2017 (include CHP Golden Gate 2016 counts due to long term outage in 2017)

<sup>12</sup> Average of regions, sum total of the average 2017 monthly call volume for each PSAP

<sup>13</sup> Average of regions, sum total of the 2017 busiest month call volume for each PSAP

<sup>14</sup> Region average, sum total of the average 2017 busy hour call volume for each PSAP

<sup>15</sup> Region average, sum total of the 2017 busiest hour call volume for each PSAP

<sup>16</sup> Region average, average of the 2017 9-1-1 average call duration for each PSAP

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**SOW - ATTACHMENT 4a – NG9-1-1 PRIME FUNCTIONS AND SERVICES ACCEPTANCE AND AUTHORIZATION TEMPLATE**

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This document is a template that will serve as a starting point to develop a checklist that shall serve as notice from CA 9-1-1 Branch to the Contractor that the NG Prime Functions and Services are acceptable, as stated below and the Contractor may invoice CA 9-1-1 Branch.

All Information to be completed by the Contractor only  
CA 9-1-1 Branch

Initial

- NG Text to 9-1-1 – Web Based OTT \_\_\_\_\_
- NG Text to 9-1-1 – Integrated \_\_\_\_\_
- Legacy PSAP Gateway \_\_\_\_\_
- Independent Verification & Validation \_\_\_\_\_
- Regional Interoperability Connection \_\_\_\_\_
- PSAP Integration \_\_\_\_\_
- Performance Reporting \_\_\_\_\_
- Call Logging \_\_\_\_\_
- Statewide Outage Reporting \_\_\_\_\_
- NRC Project Initiation and Design \_\_\_\_\_
- Statewide 911 GIS \_\_\_\_\_
- Selective Routing – as a standalone service \_\_\_\_\_
- GIS Data synchronization \_\_\_\_\_
- Alert and Warning System \_\_\_\_\_

Minor Discrepancies:

\_\_\_\_\_  
\_\_\_\_\_

As the authorized representative of:

\_\_\_\_\_ (CA 9-1-1 Branch NG9-1-1 Manager),

I hereby acknowledge receipt, installation and satisfactory performance of the service. If minor discrepancies exist, but do not keep the service from performing in accordance with the contracted terms and conditions, these discrepancies are noted above.

AUTHORIZED BY:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed/Typed Name

\_\_\_\_\_  
Title

**IMMEDIATELY AFTER ACCEPTANCE**

File a scanned copy to the CA 9-1-1 Branch NG9-1-1 Manager

**SOW - ATTACHMENT 4b –NG9-1-1 TRUNKS ACCEPTANCE AND AUTHORIZATION TEMPLATE**

This document is a template that will serve as a starting point to develop a checklist that shall serve as notice from CA 9-1-1 Branch to the Contractor, that the NG Prime/Region Trunk services are acceptable, as stated below, and the Contractor may invoice CA 9-1-1 Branch.

All Information to be completed by Contractor only

CA 9-1-1 Branch

Initial

- Trunks from Prime to PSAP \_\_\_\_\_
- Capacity tested 1Mb \_\_\_\_\_
- Capacity tested 10Mb \_\_\_\_\_
- Capacity tested 100Mb \_\_\_\_\_
- Capacity tested 1000Mb \_\_\_\_\_
- \_\_\_\_\_ tested \_\_\_\_\_
- Trunk failover tested \_\_\_\_\_

Minor Discrepancies:

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As the authorized representative of:

\_\_\_\_\_ (CA 9-1-1 Branch NG9-1-1 Manager),  
 I hereby acknowledge receipt, installation and satisfactory performance of the service.  
 If minor discrepancies exist, but do not keep the service from performing in accordance  
 with the contracted terms and conditions, these discrepancies are noted above.

AUTHORIZED BY:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed/Typed Name

\_\_\_\_\_  
Title

**IMMEDIATELY AFTER ACCEPTANCE**

File a scanned copy to the CA 9-1-1 Branch NG9-1-1 Manager



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**SOW - ATTACHMENT 4c – NG9-1-1 AGGREGATION ACCEPTANCE AND AUTHORIZATION  
TEMPLATE**

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This document is a template that will serve as a starting point to develop a checklist that shall serve as notice from CA 9-1-1 Branch to the Contractor, that the NG9-1-1 Aggregation services are acceptable, as stated below, and the Contractor may invoice CA 9-1-1 Branch.

All Information to be completed by Contractor only  
CA 9-1-1 Branch

Initial

- Able to accurately aggregate all Text OSPs (PNSP) \_\_\_\_\_
- Able to accurately accept aggregation (# of aggregations) \_\_\_\_\_
- Able to failover if one aggregation is offline \_\_\_\_\_
- Able to transfer all 9-1-1 call modalities to Prime and Region \_\_\_\_\_

Minor Discrepancies:

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As the authorized representative of:

\_\_\_\_\_ (CA 9-1-1 Branch NG9-1-1 Manager),  
I hereby acknowledge receipt, installation and satisfactory performance of the service.  
If minor discrepancies exist, but do not keep the service from performing in accordance  
with the contracted terms and conditions, these discrepancies are noted above.

AUTHORIZED BY:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed/Typed Name

\_\_\_\_\_  
Title

**IMMEDIATELY AFTER ACCEPTANCE**

File a scanned copy to the CA 9-1-1 Branch NG9-1-1 Manager

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**SOW - ATTACHMENT 4d –NG CORE SERVICES ACCEPTANCE AND AUTHORIZATION  
TEMPLATE**

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This document is a template that will serve as a starting point to develop a checklist that shall serve as notice from CA 9-1-1 Branch to the Contractor, that the Prime NG Core Services are acceptable, as stated below, and the Contractor may invoice CA 9-1-1 Branch.

All Information to be completed by Contractor only

CA 9-1-1 Branch

Initial

- Able to accurately route 9-1-1 calls \_\_\_\_\_
- Able to receive all 9-1-1 call modalities \_\_\_\_\_
- \_\_\_\_\_
- Able to transfer all 9-1-1 call modalities \_\_\_\_\_
- Received training of NG Prime Core 9-1-1 service \_\_\_\_\_
- Received training to access NG Prime Core call data \_\_\_\_\_
- \_\_\_\_\_
- Can access and understand NG Prime administrative tools \_\_\_\_\_

Minor Discrepancies:

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As the authorized representative of:

\_\_\_\_\_ (CA 9-1-1 Branch NG9-1-1 Manager),

*I hereby acknowledge receipt, installation and satisfactory performance of the service.*

*If minor discrepancies exist, but do not keep the service from performing in accordance with the contracted terms and conditions, these discrepancies are noted above.*

AUTHORIZED BY:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed/Typed Name

\_\_\_\_\_  
Title

**IMMEDIATELY AFTER ACCEPTANCE**

Submit a scanned copy to the CA 9-1-1 Branch NG9-1-1 Manager

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**SOW - ATTACHMENT 4e – PRIME NG TEXT TO 9-1-1 ACCEPTANCE AND AUTHORIZATION  
TEMPLATE**

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This document is a template that will serve as a starting point to develop a checklist that shall serve as notice from CA 9-1-1 Branch to the Contractor, that the Prime NG Text to 9-1-1 Services are acceptable, as stated below, and the Contractor may invoice CA 9-1-1 Branch.

All Information to be completed by Contractor only

CA 9-1-1 Branch

Initial

- Able to receive NG Text to 9-1-1
- \_\_\_\_\_ Able to send NG Text to 9-1-1 \_\_\_\_\_
- Able to transfer NG Text to 9-1-1 \_\_\_\_\_
- Received training of NG Text to 9-1-1 service \_\_\_\_\_
- \_\_\_\_\_ Received training to access NG Text to 9-1-1 session data \_\_\_\_\_
- Can access and understand Text administrative tools \_\_\_\_\_
- \_\_\_\_\_ Validate session data with NG Text to 9-1-1 reporting tool \_\_\_\_\_

Minor Discrepancies:

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---

As the authorized representative of:

\_\_\_\_\_ (CA 9-1-1 Branch NG9-1-1 Manager),

*I hereby acknowledge receipt, installation and satisfactory performance of the service.  
If minor discrepancies exist, but do not keep the service from performing in accordance  
with the contracted terms and conditions, these discrepancies are noted above.*

AUTHORIZED BY:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed/Typed Name

\_\_\_\_\_  
Title

**IMMEDIATELY AFTER ACCEPTANCE**

Submit a scanned copy to the CA 9-1-1 Branch NG9-1-1 Manager

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**SOW - ATTACHMENT 5a – ACCEPTANCE TESTING PLAN TEMPLATE**

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The Acceptance Test Plan template is attached in an Excel format.

Requirement Reference Number	Test Date and Duration	Test Results	Pass/Fail	Notes	Contractor signoff
1.1					
1.2					
1.3					

**SOW - ATTACHMENT 5b – CERTIFICATE OF SYSTEM READINESS TEMPLATE**

The Certificate of System Readiness Template is in Word format.

PRIME/REGION NETWORK SERVICE PROVIDER	PSAP NAME	TODAY'S DATE:
Start Date of System Acceptance:	End Date of System Acceptance:	
PNSP/RNSP Representative Name:	PNSP Representative Signature:	
PSAP Representative Name:	PSAP Representative Signature:	
CA 9-1-1 Branch Representative Name:	CA 9-1-1 Branch Representative Signature:	
<p>All of the above signed Representatives hereby acknowledge receipt, installation and satisfactory performance of the Next Generation 9-1-1 Services. This Certificate of System Readiness confirms the NG9-1-1 Services have successfully completed the 45 calendar day Acceptance Test Plan (ATP). Any discrepancies noted during the ATP shall be noted on the Final Test Report.</p>		

**SOW - ATTACHMENT 6 – WORK ORDER AUTHORIZATION FORM**

WOA Number: \_\_\_\_\_ Amendment: \_\_\_\_\_

Title of WOA: \_\_\_\_\_ Dates: \_\_\_\_\_

Work Description:

Tasks and Work Products:

Cost:

Not-to-Exceed Cost					
	Staff Name	Classification	Labor Hours	Rate Per Hour	Cost
1					
2					
				<b>Not-to-Exceed Cost Total</b>	

Acceptance Criteria:

State Responsibilities:

Approvals:

These tasks will be performed in accordance with this WOA including any accompanying documentation, if applicable and the provisions of the Contract.

State of California

Contractor

\_\_\_\_\_  
Name Date

\_\_\_\_\_  
Name Date

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**SOW - ATTACHMENT 7 – CONTRACTOR'S LICENSE INFORMATION**

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(Installation Services Only)

The Contractor shall obtain, at their own expense, all license(s) and permit(s) required by law for accomplishing any work required in connection with this contract. The Contractor shall complete the applicable contractor's license information below in accordance with the Contractor's State License Board, Department of Consumer Affairs. At a minimum, a California C-7 license is required prior to commencement of work which may include the installation of cable and wiring and electrical modification. Contractors or subcontractors performing cable and/or wiring installation work or structural modifications are required to have the appropriate State contractor's license. The license must be in the name of the company or the name of the "qualifying individual" of the company. It is the Contractor's responsibility to ensure that the Contractor and/or Subcontractor maintain a current CA C-7 license during the term of the contract and may be verified by the State at any time. The Contractor may not perform any work at or with a PSAP without valid license.

**CONTRACTOR:**

Class \_\_\_\_\_ License No: \_\_\_\_\_  
Licensee: \_\_\_\_\_ Expiration Date: \_\_\_\_\_  
Class \_\_\_\_\_ License No: \_\_\_\_\_  
Licensee: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Note: Contractor (Firm's Name or a Responsible Managing Employee) must be licensed in addition to all subcontractor(s) performing under this contract.

**SUBCONTRACTOR 1**

Class \_\_\_\_\_ License No: \_\_\_\_\_  
Licensee: \_\_\_\_\_ Expiration Date: \_\_\_\_\_  
Relationship of Licensee to Contractor: \_\_\_\_\_

**SUBCONTRACTOR 2**

Class \_\_\_\_\_ License No: \_\_\_\_\_  
Licensee: \_\_\_\_\_ Expiration Date: \_\_\_\_\_  
Relationship of Licensee to Contractor: \_\_\_\_\_

**SOW – ATTACHMENT 8 – PROJECT MILESTONE REPORT**



**Project Milestone Report**

<b>Project Name / Contract Number:</b>		<b>Prepared date/time:</b>			
<b>Project Start Date:</b>	<b>Project End Date:</b>	<b>% Complete:</b>			
<b>Cal OES Project Manager:</b>		<b>Contractor Project Manager:</b>			
<b>Milestone Name:</b>		<b>Milestone Due Date:</b>			
<b>Milestone Description:</b>					
<b>Cal OES Project Manager Name:</b>		<b>Contractor Project Manager Name:</b>			
<b>Cal OES Project Manager Signature:</b>		<b>Contractor Project Manager Signature:</b>			
<b>Agreement to Adjust Milestone Due Date</b>					
		<b>Adjusted Milestone Due Date:</b>			
<b>Approved by Cal OES Date:</b>		<b>Approved by Contractor Date:</b>			
<b>Cal OES Project Manager Name:</b>		<b>Contractor Project Manager Name:</b>			
<b>Cal OES Project Manager Signature:</b>		<b>Contractor Project Manager Signature:</b>			
<b>Reason for adjusted Milestone Due Date:</b>					
<b>Project Milestone Status:</b>					
<b>Green:</b> Project Milestone is within scope, budget, and schedule.	<b>Yellow:</b> Project milestone is at risk.	<b>Red:</b> Project milestone is in danger			
<b>Circle Project Milestone Status:</b>					
<b>Green</b>	<b>Yellow</b>	<b>Red</b>			
<b>Current Milestone Life Cycle Phase (Check one):</b>					
Concept	Planning	Design	Test	Implement	Completed
<b>Project Documentation</b>		<b>Resources</b>		<b>Services and Software</b>	
<input type="checkbox"/> Not started		<input type="checkbox"/> Available		<input type="checkbox"/> No updates needed	
<input type="checkbox"/> In development		<input type="checkbox"/> Need to assess		<input type="checkbox"/> Software updates needed	
<input type="checkbox"/> Revision update		<input type="checkbox"/> Need to hire		<input type="checkbox"/> Under development	
<input type="checkbox"/> Sent for approval		<input type="checkbox"/> Release resource(s)		<input type="checkbox"/> Not applicable	
<input type="checkbox"/> Other (specify)_____		<input type="checkbox"/> Other (specify)_____		<input type="checkbox"/> Other (specify)_____	
<b>Project Milestone Status:</b> (This is an update of the current status for this Milestone)					
<b>Project Milestone Risks:</b> (These should include actions being taken or recommendations for mitigation.)					



**SOW Attachment 9: GLOSSARY OF TERMS**

Acronyms and Abbreviations

Term/Acronym	Definition
9-1-1 traffic	Includes all voice, data, text, pictures, videos, and any future technologies capable of delivering to PSAP over the NG9-1-1 Network.
Agency/State entity	Includes every state office, officer, department, division, bureau, board, and commission, including Constitutional Officers. "State entity" does not include the University of California, California State University, the State Compensation Insurance Fund, the Legislature, or the Legislative Data Center in the Legislative Counsel Bureau.
Aggregation	The services needed to receive 9-1-1 traffic from an OSP and deliver to the correct Core Service Provider.
Business Requirements	Higher-level statement of the goals, objectives, or needs of the Agency/state entity. Business requirements describe the reasons why a project has been initiated, the objective that the project will achieve, and the metrics that will be used to measure its success. Business requirements describe the needs of the Agency/state entity as a whole, not the groups or stakeholders within it.
Certificate of System Readiness Form	Contractor shall complete the acceptance test plan and authorization checklist as defined in the SOW Section 14.2 Acceptance Testing Criteria. The Certificate of System Readiness Form will be signed by the Contractor and approved by CA 9-1-1 Branch for the acknowledgement of satisfactory system performance.
Commercial Off The Shelf Software (COTS)	A computer hardware or software product that is ready-made for specific uses and available for sale to the general public. COTS products are designed to be installed without requiring custom development. For example, Microsoft Office is a COTS product that is a packaged software solution for businesses and individuals. The set of rules for COTS is defined by the Federal Acquisition Regulation (FAR).
Contractor	The bidder who is awarded the NG9-1-1 Services – Prime contract. Contractor may also be referenced as Prime Network Service Provider.
Custom solution	Typically, computer software developed for a specific customer to accommodate the customer's particular requirements, preferences, and expectations.

Term/Acronym	Definition
Dedicated	All components and software that are used to support NG9-1-1 traffic in California, must meet the requirements of this RFP and the needs of California at any instance in time.
Functional Requirements	Functional requirements represent the business objectives, needs and outcomes of all stakeholders. They should be organized and presented in context of and with a baseline business process/workflow that they describe. They provide a description of what an enabling solution should provide and specify essential details of a solution for stakeholders as a means to express and manage expectations. They describe actions and operations that the solution must be able to perform. They can describe services, reactions, and behaviors of the solution. They also describe information the solution will manage. The requirements should be expressed in business terms and should not include any technical references. The requirement should identify “what” is required to meet the business objective, not “how” the requirement will be implemented.
Modified Off The Shelf (MOTS)	MOTS product – Typically, a COTS product with source code made available to the purchaser to allow for modifications. The product may be customized by the purchaser, by a vendor, or by another party to meet the requirements of the customer. Since MOTS product specifications are written by external sources, purchasers may not have control of future changes to the product.
Non-functional Requirements	Non-functional requirements provide criteria to evaluate the operation of an enabling solution and primarily represent qualities of (expectations and characteristics) and constraints on (e.g., governmental regulations) the solution. They capture conditions that do not directly relate to the behavior or functionality of the solution, but rather describe environmental conditions of an effective solution or productive qualities of the solution. Mid-level non-functional requirements also define quality of service requirements, such as those relating to required capacity, speed, security, privacy, availability, response time, throughput, usability, and the information architecture and presentation of the user interfaces.
Point of Interface (POI)	Placed in a location that meets the needs of OSPs and provides the interfaces needed to accept 9-1-1 traffic from the OSP and deliver that traffic to aggregation over an NG9-1-1 trunk service.

Term/Acronym	Definition
Prime Network Service Provider	The bidder who is awarded the NG9-1-1 Services – Prime contract. The Prime Network Service Provider may also be referenced as the Contractor.
Project/Transitional Requirements	Project/transition requirements describe capabilities that the solution must have in order to facilitate the transition from the current state of the enterprise to a desired future state. Mid-level project/transition requirements are differentiated from other requirement types because they are usually temporary in nature and will not be needed once the transition is complete. They typically cover process requirements imposed through the contract, such as mandating a particular design method, administrative requirements, data conversion and migration from existing services, interfaces, skill gaps that must be addressed, and other related changes required to reach the desired future state.
Region	One of four areas in California, defined Northern Region (163 PSAPs and 7,492,162 Yearly number of calls); Central Region (110 PSAPs and 4,918,909 Yearly number of calls); Los Angeles Region (79 PSAPs and 8,514,105 Yearly number of calls); Southern Region (89 PSAPs, 6,929,512 Yearly number of calls)
Regional	A large scale 9-1-1 project that meets both of the following conditions: 1) More than on PSAP, or single PSAP that dispatch multiple agencies. 2) Has a total call volume of greater than 1,000,000 calls per year.
Solution Requirements	Describes the characteristics of a solution that will meet the business requirements. Solution requirements describe specific characteristics of the solution both in terms of functionality and quality of service. Solution requirements are sub-classified into functional requirements, non-functional requirements and project/transitional requirements.
Transitional/Project Requirements	Transition/ Project requirements describe capabilities that the solution must have in order to facilitate the transition from the current state of the enterprise to a desired future state. Mid-level project/transition requirements are differentiated from other requirement types because they are usually temporary in nature and will not be needed once the transition is complete. They typically cover process requirements imposed through the contract, such as mandating a particular design method, administrative requirements, data conversion and migration from existing services, interfaces, skill gaps that must be addressed, and other related changes required to reach the desired future state.

## Exhibit 20: Technical Requirements Narrative

23.0.0: Describe the key success factors for the RNSP and how the RNSP will measure, monitor, and ensure timely implementation of NG 9-1-1 services. The description must include challenges and mitigation strategies that impact the project's critical path, and how the RNSP will comply with project plans and interfaces set by the PNSP.

Key success factors for Synergem's RNSP implementation include:

- OSP inventories of 9-1-1 connectivity and capacity
- OSP submittal of SS7 ISUP orders
- Establishment of OSP connectivity and inbound call testing
- Establishment and review of maintenance operations protocol (MOP) review is conducted with each OSP
- Provisioning and testing of dedicated core services instances
- Provisioning and testing of RNSP dashboard
- Provisioning and testing of e-bonding and data sharing with PNSP
- Provisioning and testing of PSAP integration

Synergem will routinely compare progress on deliverables to expected project timelines, identifying departures from the planned schedule. As discrepancies arise, specific mitigation plans will be developed to bring actions back into alignment while minimizing impact on the project timeline.

If not done in a timely manner, PNSP development of coordinated project and operational will put project timelines at risk. The anticipated deployment depends upon many RNSP and PNSP activities occurring in parallel. Synergem recognizes that near-daily interaction between the parties at the PM and engineering levels will be required. Through these frequent interactions, Synergem will be able to swiftly adapt to and implement the plan and interface requirements promulgated by the PNSP.

23.0.1: Describe the process using a non-proprietary NENA i3 compliant solution to route any 9-1-1 traffic to the correct PSAP within California for the awarded Regional NG Core Services, or when the Prime routes a call to the awarded region:

In accordance with the i3 standard, Synergem's core services route calls as follows:

1. Calls arrive at one of the core services instances from either Synergem's regional aggregation infrastructure or the Prime core services. In either case, the first step is an evaluation of the incoming call to determine if location information is already available in the SIP headers. If location is already known, then the call proceeds to ESRP processing. If the location is not known, then the calling number is used to transmit a HELD query to the LDB. The LDB responds with location information by reference or by value, and this info is then added to the headers for the call and it proceeds to the ESRP.
2. Once the call with location information enters the ESRP, that element it determines whether the location provided is by value or by reference. If by reference, a dereference request is sent in order to obtain the current actual location for the call. Then, the next step is for the ESRP to submit a LoST query to the ECRF using the aforementioned location and service type SOS. The ECRF replies with a URI. The ESRP then uses the returned URI to process the call via the PRF.

In the PRF, the candidate destination URI returned by the ECRF is used along with other known data points (other header information, current time and date, etc.) to query against the currently active policy routing rule set. If this query returns any results, then the substitute URI provided in the policy rule is used as the definitive destination URI for the call. Otherwise, the candidate URI becomes definitive.

3. Finally, the call is forwarded to its destination by using the definitive URI to perform an SRV lookup to determine what hosts provide SIP services for the intended destination and forwarding the call accordingly.

23.0.2: Describe the process to route any 9-1-1 traffic to the Prime when the awarded region is unable to deliver the call to the correct PSAP. Description should include how this function will be supported when there is a complete loss of awarded region NG 9-1-1 services, and when the correct PSAP is not directly connected to the awarded region, and when the correct PSAP is connected to the awarded region, but is unreachable due to network or transport outage:

For the case where both instances of the RNSP core services are unavailable, the inbound SBCs and RNSP aggregation infrastructure are configured such that the call will be directed to the PNSP core services. Specifically, these elements have a three-tier delivery failover order: the preferred RNSP core services instance for each element (the collocated instance if applicable or the closest instance in cases where aggregation is located separately from core services), the alternate RNSP core services instance, and finally the PNSP core services instance.

For PSAPs that are not directly connected to the RNSP network, recursion of the LoST query to the PNSP ECRF will result in the PSNP ESRP being returned as the next hop for delivery of that call. The call will then flow to the destination PSAP via the PNSP's infrastructure (and possibly another RNSP's infrastructure).

For calls correctly pointed to PSAPs that are connected to the region but are unavailable due to a network or transport outage, the first preference will be to route to the correct PSAP via PNSP connectivity. If no connectivity to the intended PSAP exists then the PRF will determine any potential alternate PSAPs that may accept the call and deliver it accordingly. If all alternates are exhausted, the call will be directed via the default routing instructions.

23.0.3: Describe the program management, collaboration and communication needed for the RNSP to comply with the best practices and interfaces developed for POI, aggregation, Region to Prime interface and Region/Prime interface to PSAP by the PNSP in coordination with the CA 9-1-1 Branch that demonstrates a commitment to transparency.

In addition to the measures outlined in 23.0.0, Synergem specifically recognizes the essential nature of transparent collaboration with the PNSP on all aspects of the technical architecture. As a result, Synergem will provide PNSP with regular, unfiltered updates on all aspects of its implementation of these processes and interfaces. This will be done via the ongoing direct communication at the program management level. From a technical perspective, Synergem will provide access to its technical documentation via its project-specific SharePoint site to facilitate this fully open and transparent flow of information. Additionally, Synergem stands ready to resolve all specific challenges that may arise through collaborative work sessions with the PNSP at either the program management or engineering levels.

23.0.4: Describe how the solution will support Location Based Routing using location data provided by either an Originating Service Provider, a device operating system, or a location clearing house, as directed by the CA 9-1-1 Branch:

Synergem's core services will use location from any source if provided with the call in i3 format by the OSP. For calls where location is not natively provided, the HELD query can be directed to any i3 compliant data source, which may include a clearinghouse made available by the State directly or via a separate commercial agreement. The contents of that clearinghouse may be derived from the providing network and/or the handset OS.

[REDACTED]

Synergem's core services always uses the most current caller location information made available to it to route a call.

23.0.5: Describe the methodology that will be employed after contract award to ensure NG9-1-1 services provided are consistent with tariff filings:

There are two components to this process.

The first deals with tariff creation and updating. Synergem has cross-referenced all the State requirements for NG9-1-1 service to ensure sure these requirements appear independently in the tariff. We have provided an updated Exhibit 23 A3 documenting this. This spreadsheet includes a reference to the location in the tariff where the requirement appears. This is an ongoing process. Any changes that are made to the State's requirements will be added to the tariff and an amended tariff will be filed with the CPUC as allowed my regulation.

The second component deals with how Synergem will ensure the services that are ordered off the tariff meet the stated requirements in the tariff. Each service order form will be the definitive contractual obligation Synergem will use to provision the services as they are defined in the tariff. The order form will include standardized implementation, testing and acceptance criteria that will define the point where fulfillment is complete.

For example, an NG9-1-1 trunk order will define all PSAP location and bandwidth criteria, will specify which equipment will be installed onsite, will define the demarcation point(s) as appropriate to that location, etc. All other services will have similar ordering and acceptance methodologies. Once any service is installed and accepted, it will be included in ongoing monthly reporting policies as defined in the tariff, which includes available capacity, performance metrics, etc.

23.0.5.1: Of the four regions, what is you preferred region and why your company would have an advantage in that region? Why is this region assignment in the best interest of The State? The State makes no guarantee preferences will be accommodated and region assignment is determined solely by the State to achieve the best NG 9-1-1 solution.

Synergem would prefer the Northern region. We have established relationships with the NE PSAPs having installed circuits and hardware in their facilities. [REDACTED]

23.0.6: Describe how the RNSP shall utilize the statewide GIS database that is maintained and updated by the NG 9-1-1 Prime vendor for routing all 9-1-1 traffic:

Upon receipt of an updated GIS dataset from the Prime, it will be loaded into the ECRF/LVF by way of the SI. The SI will provide quality control checks on the data prior to loading into the production routing dataset and any discrepancies will be reported back to the Prime vendor. Once the GIS data has successfully passed the quality control checks, changes to the data are published to the ECRF and can be used for call routing. Synergem will work with the PNSP to define a process for adjudicating instances where there is a conflict in validity determination between Synergem the PNSP. Synergem's recommended approach for this resolution, at a high level, will be to determine the type of discrepancy, assess the source of the conflict, apply automated and if necessary human intelligence to resolve, and then to implement the resolution.

23.0.7: Describe the Emergency Call Routing Function (ECRF) and Location Validation Functions (LVF) that comply with GIS standards that include but not be limited to NENA STA-010.2-2016 Detailed Functional and Interface Standards for the NENA i3 Solution. Description shall include how the ECRF will updated based on GIS changes published by the PNSP:

STI will employ an ECRF/LVF with a fully featured LoST server, implementing all aspects of the protocol and behaviors specified in RFC 5222, and designed as a combined implementation to fulfill the NENA i3 requirements for both call routing and location validation. This solution can answer all described query types, supports queries in both the civic and geodetic-2d baseline profiles, performs location validation when requested, and is interoperable in a tree structure with other authoritative LoST servers using recursion or redirection (iteration). All service URNs in RFC 5031 are supported by default and additional service URNs may be added via configuration. The ECRF/LVF also supports discovery of additional data associated with a location and logging to an i3-compatible event logging service.

Because the ECRF/LVF is a critical functional element used both within the ESInet and by calls originating external to the ESInet, separate internal and external ECRF/LVF replicas will be deployed for each logical node. Internal replicas will only receive queries originating internally or from other trusted ESInets. External replicas will handle queries from untrusted networks and the public Internet. If external ECRF/LVF replicas are attacked or compromised, the internal replicas will still be available to service internal calls and those from trusted networks.

Validation of GIS updates is performed by the SI. When changes are submitted to it, a quality control process immediately begins checking the data for errors, which are rated for severity and flagged for follow-up. This solution includes configurable QC thresholds that can be used to block publishing to the ECRF/LVF. These thresholds can be set based on the total number or the total rate of errors above a chosen severity level, and multiple thresholds can be established. When publishing is blocked due to detected errors greater than a configured threshold, e-mail notification is sent to interested parties. In the Synergem core services instances for California, the updates will be via the PNSP. Thus, there is a potential for the variances in the QA algorithms in use at the PNSP and those employed by Synergem



at the RNSP to expose edge-case variances in the underlying datasets. Synergem will collaborate with the PNSP to define a process for communicating such cases when they arise and for resolving the underlying discrepancy in order to resolve each such case.

23.07.1: List all subcontractors that will be used for ECRF/LVF. There is potential for some subcontractors to be used by multiple RNSP's or the PNSP. In that scenario, describe the bidder's strategy to prevent or mitigate one subcontractor's outage from causing an outage in multiple regions. Bidder shall describe how their solution provides an autonomous solution for ECRF/LVF.

Synergem does not employ subcontractors for the ECRF/LVF functional elements of its core services, but instead obtains these elements via product purchase from third parties. Synergem has significant flexibility to deploy one or more of several providers [REDACTED] according to the needs of the project, including such considerations as which of those platforms are used by the PNSP and other regions.

23.0.8: Describe how the dashboard will display and report the health of the Regional network from ingress to egress. Description should include how the Dashboard shall monitor all 9-1-1 traffic in the assigned region and all NG9-1-1 trunks to ensure that SLAs are being met. Description shall also include how CA 9-1-1 Branch will access the Dashboard Monitoring, this shall include statistical data, printable reports, and outage notifications with duration:

Synergem's dashboard will provide a consolidated view of data about the RNSP network from several contributing platforms. Chief among these are the [REDACTED] and the [REDACTED] security and event management platform. Working in a complementary way, these two tools gather a comprehensive set of data about the status of the network, including device reachability, SIP endpoint behavior, predicted MOS performance, routing topology, security threats, infrastructure alarms, SLA compliance, and a host of other relevant data. Both tools have a network-wide view of Synergem's RNSP infrastructure, starting at the TDM trunks at the aggregation infrastructure and all the way through the call flow to the demarcation device at each PSAP. Then, these and other data sources such as E-Bonding ticket information are consolidated into a single viewing portal for access by the State.

SLA commitments are configured as alarm criteria in the [REDACTED] platform, so that even in the absence of any contributing alarm or even any condition resulting in a near or actual SLA violation; a warning or alarm will be created to gain the attention by the Synergem engineering staff.

Access to the portal will be by secure two-factor authentication from the public Internet. The portal view will then offer access to historical and near-real-time statistical data. This will include current ticket information including outage and degradation reports with accompanying time since event and estimated time to for resolution; and call-specific information on performance and system behavior. The portal makes available printable versions of all accessible data.

In addition, much of the event-based data presented in the portal can be made available to State personnel in a 'push' format to email and/or a secure messaging platform.



23.0.9: Describe the integration of system monitoring with data pushed from Regional network to PNSP. Description shall include how to integrate the e-bonded trouble ticket process.

Synergem will designate a technical Subject Matter Expert (SME) within five business days of contract award to work with CALOES and other service providers to define an end-to-end monitoring approach for all components of the solution. This approach will include a display of Synergem monitoring output into a portal managed by the PNSP and available to CALOES personnel and others as directed. Status for all services, hardware, and network elements will be updated in near-real time (15 minutes or less) or otherwise as determined by CALOES. Synergem and other providers will jointly agree to the subset of monitoring data that will be made available for viewing, including the frequency, format, and output methods used to present data to customers or other third parties.

Because Synergem’s NOC and monitoring operation is built on the [REDACTED] platform, we support robust event generation for not only traditional device and system monitoring metrics, but also for detailed security threat and risk events, with visibility, correlation, machine learning, and remediation in a single platform.

Synergem shall provide an FCC-compliant E-Bonding interface and cooperate in establishing E-bonding between ticketing systems of the PNSP. Synergem will designate a technical Subject Matter Expert (“SME”) within 5 business days of execution of contract award to engage in the design and implementation of this E-bonding interface with the combined CA NG9-1-1 providers. An application interface specification defining connectivity, error handling, data management, audit, permissions, and security will be defined and jointly agreed to in writing prior to commencing development. E-Bonding functionality will be included in the final Acceptance Test Plan.

**23.0.10:** Describe realistic timeline for Dashboard development that includes at a minimum Real Time Network Outage Monitoring and Reporting to support the description given for 23.0.8.

The reporting systems contributing to the dashboard are standard components of the Synergem core services offering. This provides a head start in making the data available via the new California-specific portal. Utilizing the processes as described in 23.0.9, Synergem estimates a four-month timeline for developing the dashboard with work commencing at contract execution. The timeline developing this dashboard shall be:

<b>Days</b>	<b>Task</b>
0	Contract execution
+5	Designation of the Synergem monitoring technical lead, lab provisioning begins
+30	Provisioning of lab Portal infrastructure concludes, integration of data flows from contributing platforms begins.
+65	Commencement of portal UI deployment
+90	Deployment of production portal instances
+110	Final test and provisioning of access permissions
+120	Portal available for operational use

23.0.11: Describe the OSP traffic aggregation service for all wireless, AT&T wireline, Consolidated Communications wireline, and Frontier wireline OSPs in the awarded region in the State of California.

Describe how the POI locations will be determined to support the ingress of OSP traffic, and how they will work with the OSP, CA 9-1-1 Branch and the CPUC throughout this process:

OSP traffic will be aggregated using the i3-Interconnect™ feature of SynergemNET™ which enables OSPs easy access to Synergem's managed network service. This allows them to direct traffic to this network. POI locations will be established in the region. We currently have facilities in [REDACTED] and [REDACTED] available for use. However, POI locations will be determined based on an analysis of existing carrier traffic, as well as identification of locations (e.g. Tier III datacenters) that have suitable network and OSP connectivity.

Inbound traffic can be delivered via either TDM or SIP. i3-Interconnect™. This enables OSPs to directly connect to the SynergemNET™ environment via supported POIs. OSPs will have a detailed order form, pass and receive signaling information, call path information and enable protocol conversion between signaling and encoding standards as needed to migrate from legacy to NG9-1-1 formats.

Specifically, the POIs supporting Synergem's RNSP solution will include SBCs for SIP ingress, as well as full SS7 signaling point infrastructure for acceptance of SS7 TDM interconnection, with dual SS7 SDP A links to each POI.

After Tariff filing, Synergem will continue to interface with the CPUC as needed to address questions, changes or modifications that may be required by the State or the CPUC.

The ordering process will be documented in cooperation with the CALOES Branch. This process will detail all steps necessary for the Branch to place orders based on Synergem's Tariff filing. The Synergem project manager will work closely, via weekly meetings and project plan discussions, with the designated CALOES Branch Project Manager.

**23.0.12:** Describe how the bidders proposed aggregation plan complies with the SOW and Exhibit 23. Description shall include the solutions ability to transfer between regions, or if PSAP is not reachable then shall send to Prime for delivery to PSAP:

STI meets aggregation compliance requirements with (1) Two aggregation locations and two POIs in the region; (2) Our i3-Route™ service linking all OSPs to our ESInet and; (3) An aggregation configuration that does not signal call setup completion to TDM -connected OSPs until a call viability of an intended routing destination is confirmed by the core services.

Region-to-region transfers will be accomplished via connectivity to the Prime. Coordination of such cross-boundary call flows will be the subject of much specific engineering coordination between the PNSP and the RNSPs, and those decisions will directly impact transfer call flows. In particular, the naming conventions and namespace designations for URIs will need to be logically and consistently derived so that the various cross-boundary call flows can be distinguished and processed appropriately. For example, calls flowing to the PNSP from a RNSP bound for a particular PSAP as a result of a loss of connectivity from the RNSP to that PSAP should follow policy routing rules for the destination to reroute calls to an alternate if indicated. However, a call flowing from the RNSP to the PNSP bound for the same PSAP as a result of a transfer should not be redirected and should generally be rejected if the intended destination is unreachable. In this latter case, a telecommunicator is explicitly trying to direct the call to a specific destination. Thus, these two call flows must be distinguishable even though their sources and intended destinations are the same.

Synergem will collaborate with the PNSP to address these and other similar concerns to ensure maximum functionality in accordance with the State's operational objectives.

23.0.12.1: List all subcontractors that will be used for aggregation. There is potential for some subcontractors to be used by multiple RNSP's or the PNSP. In that scenario, describe the bidder's strategy to prevent or mitigate one subcontractor's outage from causing an outage in multiple regions. Bidder shall describe how their solution provides an autonomous solution for aggregation.

23.0.13: Describe how the bidder will receive, maintain, and push the centralized policy routing instructions for the region.

Synergem will collaborate with the State, other RNSPs, and the PNSP to determine the optimal methodology for policy routing rule maintenance. While there are several possible approaches to this problem, Synergem believes that under normal circumstances, maintenance will be best performed at the PNSP PRF. This will significantly reduce the likelihood of conflicting rules being provisioned and will eliminate the issue of rule edit "siloing" wherein a rule being edited at a RNSP is valid in the context of that RNSP's ruleset, but not valid in the context of the ruleset at the PNSP or another RNSP. If this model is adopted, Synergem's RNSP PRF would receive rule updates subsequent to maintenance activity performed at the PNSP PRF. In cases where a PRF optimization is identified at the RNSP, these changes would not be pushed directly to the PNSP PRF, but instead would be communicated to the PNSP via an agreed process for validation and subsequent provisioning at the PNSP PRF to be propagated to all regions in a controlled, predictable fashion.

Of course, if another approach is adopted Synergem stands ready to contribute to and participate in that methodology as well.

23.0.14: Describe the security and firewalls needed to protect NG9-1-1 Services in accordance with NENA NG-SEC 75-001. The solution must be able to detect, mitigate and report TDOS, DDOS and any other Cyber attacks.

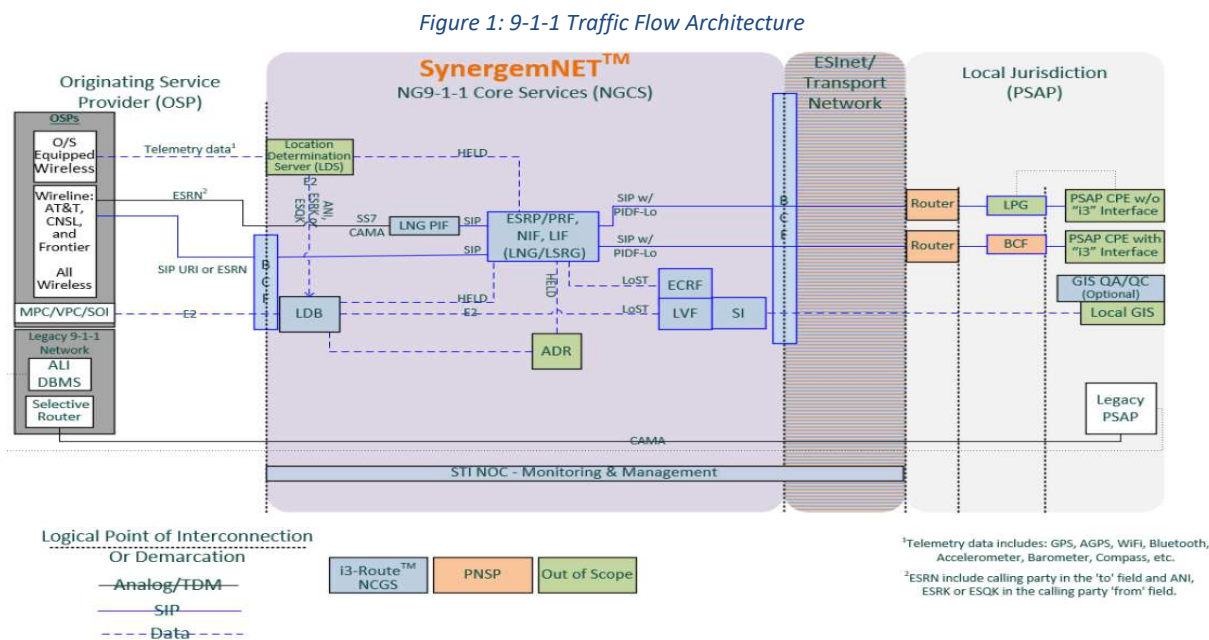
In designing its products and services, STI employs guidance contained in NENA Technical Information Document 03-501 and NENA 75- 001.

The [REDACTED] is the foundation of the STI security solution for call flow protection. Threats are detected by monitoring the NENA-defined SecurityPosture as well as predetermined threat profiles. Log events are created which include (1) Normal operation; or the presence of suspicious activity that does not impact normal operations; (2) The presence of fraudulent calls and events that are stressing a facility's ability to continue most operations; and (3) System under active attack and overwhelmed. For California, these will be configure to accomplish such goals as elevated trust of call flows from the PNSP and aggregation infrastructure.

For non-call-flow associated network connectivity, [REDACTED] serve as the foundation of the network's protection. These provide policy-based permission control for all network traffic, permitting fine-grained control of access parameters. For California, these will be provisioned, for example, to permit portal access to authorized users from the public Internet and to allow public LVF access.

Data from all these foundational security platforms will be consolidated into the [REDACTED] threat management and monitoring platform. The [REDACTED] provides visibility, correlation, automated response and cross, correlation, and applies machine learning techniques to ensure that security threats and attacks of all types, including TDOS and DDOS, are promptly recognized, alarmed, reported, and mitigated. This multisource, consolidated assessment approach to security optimizes Synergem’s ability to detect and respond to such events.

**23.0.15:** Provide a diagram(s) that shows 9-1-1 traffic flow architecture from ingress to egress using a non-proprietary NENA i3 compliant solution with dedicated NG Core Services for California.



The elements in this system meet the following standards:

- NENA-STA-010.2-2016, Detailed Functional and Interface Specification for the NENA i3 Solution.
- NENA 75-001, Security for Next Generation 9-1-1 Standard (“NG-SEC”) and its successors
- NENA-INF-016.7-2018 Emergency Services IP Network Design for NG9-1-1 Information Document, Version 1, and its successors
- NENA-STA-003.1.1-2014, NENA Standard for NG9-1-1 Policy Routing Rules and its successors
- NENA-REQ-002.1-2016, NENA Next Generation 9-1-1 Data Management Requirements and its successors
- NENA-STA-004.1.1-2014, NENA Next Generation 9-1-1 United States Civic Location Data Exchange Format (“CLDXF”) and its successors
- NENA-INF-027.1-2018, NENA Information Document for Location Validation Function Consistency
- APCO NENA 2.105.1-2017, NENA/APCO Emergency Incident Data Document (“EIDD”), to be replaced by its eventual ANSI document
- NENA-STA-006.1-201x, NENA GIS Data Model for NG9-1-1
- IETF Base IP Protocols
- IETF IP Routing Protocols such as Border Gateway Protocol (“BGP”) and Open Shortest Path First (“OSPF”)

- IETF Session and Media Protocols such as Session Initiation Protocol (“SIP”), Session Description Protocol (“SDP”), Message Session Relay Protocol (“MSRP”), and Real-Time Transport Protocol (“RTP”)
- IETF Protocols such as Location-to-Service Translation (“LoST”), HTTP-Enabled Location Delivery (“HELD”), and Presence Information Data Format Location Object (“PIDF-LO”)

23.0.16: Describe how NGCS shall use a non-proprietary NENA i3 compliant multi-layered redundancy of systems, software, and facilities with no single point of failure that supports the ability to update all system components including but not limited to routers, router tables, servers, NG Core Services, and all NG9-1-1 functions without any loss of service 24x7x365.

Our non-proprietary NGCS operate within a highly survivable network architecture. Core services operate [REDACTED]. This feature employs redundant, high-quality, fault-tolerant critical components operating continuously in tandem. If one should fail, the redundant component continues to carry the entire load with no interruption of service. No failover time is required. All applications are deployed on virtual servers and data is shared among and within each datacenter. These applications leverage H/A functionality within the vSphere hypervisor and associated Snapshots. vMotion, DRS and H/A features are utilized to ensure backup and recovery.

[REDACTED]

Our geographically diverse datacenters monitor all critical systems automatically 24x7x365.

Electronic logs are created and maintained in the system dashboard. This includes an historical record of availability and outage. These facilities meet Tier II-III standards stipulated in the two main datacenter tier classifications developed by the Telecommunications Industry Association (TIA) and the Uptime Institute (UI).

23.0.17: Describe how the bidder's solution will support a minimum of two geographically diverse cores or a cloud based equivalent, dedicated to California and located in the CONUS, with the capability to maintain 99.999% availability.

Synergem's solution will be deployed in two geographically diverse CONUS datacenters that are each equipped with NGCS deployed in an active-active environment. Each datacenter will be provisioned with NGCS dedicated for the exclusive support of California agencies and CALOES. Synergem does not employ any cloud-based architecture.

Within each center, all hardware elements are deployed in a 2N or N+1 architecture, ensuring that a hardware issue does not impact availability of that core services instance. Power delivery in each datacenter is via redundant paths from redundant UPSs fed via N-1 generator-backed utility power.

All applications are deployed on virtual servers and all applications and data are shared among and within each datacenter. The applications will be leveraging all HA functionality within the hypervisor, DRS and HA features are utilized to ensure an "always on" architecture. Data is backed up and recovered based upon global standards and best practices. Importantly, each Synergem core services instance operates in a completely standalone fashion – there is no common element among them nor is there any flow of configuration or state data between instances. In combination with robust, structured change control polices including deconfliction of changes across instances this mitigates against an error introduced in one instance impacting other instances.

23.0.18: Describe the maximum call volume the solution will support and how the proposed solution is scalable and the role licensing agreements with subcontractors have in scalability if applicable.

Each core service instance for California will initially be provisioned to support [REDACTED] concurrent sessions. This can be expanded to [REDACTED] sessions without hardware changes, and beyond with hardware augmentation. While no subcontractor relationships impact the core services capacity, some elements such as the SBCs are licensed on a session basis and therefore Synergem would augment these session licenses as needed to support traffic demand.

23.0.19: List all subcontractors that will be used for NGCS. There is potential for some subcontractors to be used by multiple RNSP's or the PNSP. In that scenario, describe the bidder's strategy to prevent

or mitigate one subcontractor's outage from causing an outage in multiple regions. Bidder shall describe how their solution provides an autonomous solution for NGCS.

[REDACTED]

**CA NG911 - Region Cost Summary**

Length of Contract in Years: 5

CA NG 911 Region Cost Summary Table		Total NRC Costs	Total MRC 5 Years
	<b>Total Evaluated Non-Recurring Costs (NRC) - NG9-1-1 Trunks</b>	\$ 117,000.00	
	<b>Total Evaluated Cost (120 month of MRC) - NG9-1-1Trunks</b>		\$ 16,542,000.00
	<b>Total Evaluated Non-Recurring Costs (NRC) - Aggregation</b>	\$ 800,000.00	
	<b>Total Evaluated Cost (120 month of MRC) - Aggregation</b>		\$ 3,180,000.00
	<b>Total Evaluated Non-Recurring Costs (NRC) - Region</b>	\$ 2,312,000.00	
	<b>Total Evaluated Cost (120 month of MRC) - Region</b>		\$ 32,070,000.00
	<b>Total Evaluated 1st year Labor Rate</b>	\$ 1,725,000.00	
	<b>NRC Total</b>	\$ 4,954,000.00	
	<b>120 month MRC Total</b>		\$ 51,792,000.00
<b>GRAND TOTAL FOR CONTRACT AWARD</b>			\$ 56,746,000.00

Estimated Annual Cost of NG9-1-1 Region Contract \$ 10,358,400.00









**CA NG 911 Region Specific Costs - All implementation/on going maintenance is all inclusive of costs**

A	B	C	D	E	F	G	H	I
Line Item #	Feature Name	Feature Description	Quantity	Unit of Measure	Monthly Recurring Charge	Non-Recurring (One Time Charge)	Total Extended Annual Cost (D*Fx12mo)	Total Extended NRC Costs
22.11.1	NRC New Technology PSAP Integration (est. 50hrs/each 110PSAPs)	Per the Requirements in Exhibit 23	5,500	Per Hour	-	150.0000	\$ -	\$ 825,000.00
22.11.2	NG9-1-1 Training	Per SOW Requirements	6,000	Per Hour		150.0000		\$ 900,000.00
	MRC Annual 12 month Total						\$ -	
	NRC Total							\$ 1,725,000.00

The rates for years 1 through 10 are fixed. Estimating for the Regoin to have 50hrs at each PSAP per year = 5,500 hours

**CA NG 911 Prime Aggregation Costs - Each Cost Element lists the Technical Requirements from Exhibit 21 that shall be included with each cost element**

A	B	C	D
Cost Element	Technical Requirements Included in Cost Element.	Feature Description	Technical Elements Included in each Cost Element
22.8.1	NG 9-1-1 One-time Circuit Install & Test	Service testing	23.4.2, 23.4.5, 23.4.6
22.8.2	NG 9-1-1 Alternate Technology to Support Diverse Path	NG 9-1-1 Diverse Path	23.4.2, 23.4.5, 23.4.6
22.8.3	NG 9-1-1 Monthly Circuit Cost (1 Mbps)	NG 9-1-1 Trunk - 1 Mbps	23.4.2, 23.4.5, 23.4.6
22.8.4	NG 9-1-1 Monthly Circuit Cost (10 Mbps)	NG 9-1-1 Trunk - 10 Mbps	23.4.2, 23.4.4, 23.4.5, 23.4.6
22.8.5	NG 9-1-1 Monthly Circuit Cost (100 Mbps)	NG 9-1-1 Trunk - 100 Mbps	23.4.2, 23.4.5, 23.4.6
22.8.6	NG 9-1-1 Monthly Circuit Cost (1000 Mbps)	NG 9-1-1 Trunk - 1000 Mbps	23.4.2, 23.4.5, 23.4.6
22.8.7	NG 9-1-1 Trunk SD WAN service	SD WAN Service	23.4.10, 23.4.11, 23.4.12
22.8.8	NG 9-1-1 Trunk Data Center Cross Connects	Non-Bidder owned Data Center cross connections	Dependent on Solution
22.9.1	NRC Project Initiation and Design	Aggregation Service Initialization	Paid through Contract
22.9.2	OSP Integration NRC	Upon successful OSP integration into	23.3.5
22.9.3	Region Aggregation	Recurring cost for Statewide	23.1.14, 23.2.8, 23.3.2, 23.3.3, 23.3.6,
22.9.4	Point of Interconnection	Interconnection between disparate technologies such as originating carrier network and NG9-1-1 network	23.1.14, 23.2.8, 23.3.4
22.10.1	NGCS per NENA i3 requirements and standards	NGCS to include all functional elements	23.1.2, 23.1.3, 23.1.5, 23.1.6, 23.1.7, 23.1.8, 23.1.9, 23.1.10, 23.1.11, 23.1.12, 23.1.13, 23.1.18, 23.1.19, 23.1.20, 23.1.21, 23.1.22, 23.2.1, 23.2.2, 23.2.8, 23.2.9 through 23.2.13, 23.2.15, 23.2.23, 23.5.2, 23.5.7
22.10.2	LPG - Legacy PSAP Gateway	Interface service to the PSAP	23.1.13, 23.2.8
22.10.3	Prime Interoperability Connection (ESInet to ESInet)	ESInet to ESInet connection	23.1.4, 23.1.16, 23.1.17, 23.2.25, 23.2.26, 23.3.7
22.10.4	Regional Integration at PSAP	Implementation Services at each PSAP	23.1.13, 23.1.14
22.10.5	System Monitoring and Dashboard Interface	Statewide System monitoring	23.2.14, 23.2.16, 23.2.17, 23.2.18, 23.2.19, 23.2.22, 23.3.9, 23.4.3, 23.4.7, 23.4.9, 23.5.9, 23.5.11
22.10.6	Outage Reporting	Automated system for outage reporting	23.1.23, 23.2.17, 23.2.24, 23.3.8, 23.4.8, 23.4.9, 23.5.10, 23.5.11
22.10.7	NRC Project Initiation and Design	Project Initialization for NGCS	Paid through Contract
22.10.8	NRC New Technology Region Integration	Technologies beyond standard updates	Based on New Technologies
22.10.9	NRC New Technology PSAP Integration	Integration service at PSAP	Based on New Technologies
22.10.10	GIS Regional synchronization -Update GIS from Prime	Manage GIS Updates	23.5.1, 23.5.3, 23.5.4, 23.5.5, 23.5.6, 23.5.8,
22.10.11	Call Data Record Management System / 9-1-1 Traffic Logging	Meta data and i3 logging	23.2.3, 23.2.4, 23.2.5, 23.2.5, 23.2.6, 23.2.7, 23.2.20, 23.2.21
22.10.14	LVF Synchronization	Synch LVF and compare with Prime	23.1.15, 23.2.27

EXHIBIT 23  
Narrative Requirements - Region

**CA NG9-1-1 - Region Technical Requirements Summary**

- 23.0 Region Narrative Requirements
- 23.1 Region Functions and Services
- 23.2 Region NG Core Services
- 23.3 Region Aggregation Services
- 23.4 NG9-1-1 Trunk Services
- 23.5 Region Integration with Statewide GIS

Requirement	Bidder shall provide a written narrative for the requirements noted in Exhibit 23.0 and include with its Final Bid Submission in accordance with Section 6, Proposal/Bid Format and Submission Requirements	Region Network Service Provider Agrees to meet the Requirement YES/NO	Tariff Service Info
<b><u>Interface, Compatibility, and Interoperability - Region</u></b>			
23.0.0	Describe the key success factors for the RNSP and how the RNSP will measure, monitor, and ensure timely implementation of NG 9-1-1 services. The description must include challenges and mitigation strategies that impact the project's critical path, and how the RNSP will comply with project plans and interfaces set by the PNSP.	Yes	Synergem Emergency Services Tariff dated 6/8/19 para 7.0 3B2, Sheet 106
23.0.1	Describe the process using a non-proprietary NENA i3 compliant solution to route any 9-1-1 traffic to the correct PSAP within California for the awarded Regional NG Core Services, or when the Prime routes a call to the awarded region.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1D: NG 9-1-1 Emergency Services, Sheet 102, 6/8/19
23.0.2	Describe the process to route any 9-1-1 traffic to the Prime when the awarded region is unable to deliver the call to the correct PSAP. Description should include how this function will be supported when there is a complete loss of awarded region NG 9-1-1 services, and when the correct PSAP is not directly connected to the awarded region, and when the correct PSAP is connected to the awarded region, but is unreachable due to network or transport outage.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1B: NG 9-1-1 Emergency Services, Sheet 101, 6/8/19
23.0.3	Describe the program management, collaboration and communication needed for the RNSP to comply with the best practices and interfaces developed for POI, aggregation, Region to Prime interface and Region/Prime interface to PSAP by the PNSP in coordination with the CA 9-1-1 Branch that demonstrates a commitment to transparency.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1A: NG 9-1-1 Emergency Services, Sheet 100, 6/8/19
23.0.4	Describe how the solution will support Location Based Routing using location data provided by either an Originating Service Provider, a device operating system, or a location clearing house, as directed by the CA 9-1-1 Branch.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 5 D5: NG 9-1-1 Emergency Services, Sheet 119, 6/8/19
23.0.5	Describe the methodology that will be employed after contract award to ensure NG9-1-1 services provided are consistent with tariff filings.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 6 A: NG 9-1-1 Emergency Services, Sheet 121, 6/8/19

23.0.5.1	Of the four regions, what is your preferred region and why your company would have an advantage in that region? Why is this region assignment in the best interest of The State? The State makes no guarantee preferences will be accommodated and region assignment is determined solely by the State to achieve the best NG 9-1-1 solution.	Yes	N/A
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<b>NG Statewide 9-1-1 GIS</b>			
23.0.6	Describe how the RNSP shall utilize the statewide GIS database that is maintained and updated by the NG 9-1-1 Prime vendor for routing all 9-1-1 traffic.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 6 A: NG 9-1-1 Emergency Services, Sheet 121, 6/8/19
23.0.7	Describe the Emergency Call Routing Function (ECRF) and Location Validation Functions (LVF) that comply with GIS standards that include but not be limited to NENA STA-010.2-2016 Detailed Functional and Interface Standards for the NENA i3 Solution. Description shall include how the ECRF will updated based on GIS changes published by the PNSP.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 5 D3: NG 9-1-1 Emergency Services, Sheet 117, 6/8/19
23.0.7.1	List all subcontractors that will be used for ECRF/LVF. There is potential for some subcontractors to be used by multiple RNSP's or the PNSP. In that scenario, describe the bidder's strategy to prevent or mitigate one subcontractor's outage from causing an outage in multiple regions. Bidder shall describe how their solution provides an autonomous solution for ECRF/LVF.	Yes	Note: STI does not propose to use subcontractors for this project

<b>System Monitoring</b>			
23.0.8	Describe how the dashboard will display and report the health of the Regional network from ingress to egress. Description should include how the Dashboard shall monitor all 9-1-1 traffic in the assigned region and all NG9-1-1 trunks to ensure that SLAs are being met. Description shall also include how CA 9-1-1 Branch will access the Dashboard Monitoring, this shall include statistical data, printable reports, and outage notifications with duration.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 3 E-F: NG 9-1-1 Emergency Services, Sheet 109, 6/8/19
23.0.9	Describe the integration of system monitoring with data pushed from Regional network to PNSP. Description shall include how to integrate the e-bonded trouble ticket process.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 3 B2: NG 9-1-1 Emergency Services, Sheet 107, 6/8/19
23.0.10	Describe realistic timeline for Dashboard development that includes at a minimum Real Time Network Outage Monitoring and Reporting to support the description given for 23.0.8.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 3 B: NG 9-1-1 Emergency Services, Sheet 108, 6/8/19



<b>Aggregation</b>			
23.0.11	Describe the OSP traffic aggregation service for all wireless, AT&T wireline, Consolidated Communications wireline, and Frontier wireline OSPs in the awarded region in the State of California. Describe how the POI locations will be determined to support the ingress of OSP traffic, and how they will work with the OSP, CA 9-1-1 Branch and the CPUC throughout this process.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 4A: NG 9-1-1 Emergency Services, Sheet 110, 6/8/19
23.0.12	Describe how the bidders proposed aggregation plan complies with the SOW and Exhibit 23. Description shall include the solutions ability to transfer between regions, or if PSAP is not reachable then shall send to Prime for delivery to PSAP.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 5A: NG 9-1-1 Emergency Services, Sheet 113, 6/8/19
23.0.12.1	List all subcontractors that will be used for aggregation. There is potential for some subcontractors to be used by multiple RNSP's or the PNSP. In that scenario, describe the bidder's strategy to prevent or mitigate one subcontractor's outage from causing an outage in multiple regions. Bidder shall describe how their solution provides an autonomous solution for aggregation.	Yes	Note: STI does not propose to use subcontractors for this project

<b>NG Core Services</b>			
23.0.13	Describe how the bidder will receive, maintain, and push the centralized policy routing instructions for the region.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 5D5: NG 9-1-1 Emergency Services, Sheet 119, 6/8/19
23.0.14	Describe the security and firewalls needed to protect NG9-1-1 Services in accordance with NENA NG-SEC 75-001. The solution must be able to detect, mitigate and report TDOS, DDOS and any other Cyber attacks.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 2: NG 9-1-1 Emergency Services, Sheet 104, 6/8/19
23.0.15	Provide a diagram(s) that shows 9-1-1 traffic flow architecture from ingress to egress using a non-proprietary NENA i3 compliant solution with dedicated NG Core Services for California.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 E: NG 9-1-1 Emergency Services, Sheet 103, 6/8/19
23.0.16	Describe how NGCS shall use a non-proprietary NENA i3 compliant multi-layered redundancy of systems, software, and facilities with no single point of failure that supports the ability to update all system components including but not limited to routers, router tables, servers, NG Core Services, and all NG9-1-1 functions without any loss of service 24x7x365.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 5 D3: NG 9-1-1 Emergency Services, Sheet 117, 6/8/19

23.0.17	Describe how the bidders solution will support a minimum of two geographically diverse cores or a cloud based equivalent, dedicated to California and located in the CONUS, with the capability to maintain 99.999% availability.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 D: NG 9-1-1 Emergency Services, Sheet 102, 6/8/19
23.0.18	Describe the maximum call volume the solution will support and how the proposed solution is scalable and the role licensing agreements with subcontractors have in scalability if applicable.	Yes	Will be added to final Tariff
23.0.19	List all subcontractors that will be used for NGCS. There is potential for some subcontractors to be used by multiple RNSP's or the PNSP. In that scenario, describe the bidder's strategy to prevent or mitigate one subcontractor's outage from causing an outage in multiple regions. Bidder shall describe how their solution provides an autonomous solution for NGCS.	Yes	Note: STI does not propose to use subcontractors for this project

Requirement	<b>Mandatory Region Functions &amp; Services Requirements</b> The requirements are organized into General Requirements and then more specific requirements for each deployment method.	<b>Region Network Service Provider Agrees to meet the Requirement?</b>  YES/NO	<b>Tariff Service Info</b>
23.1.1	Shall not charge OSPs, 9-1-1 Service Providers, CPE providers, or any other service provider from ingress to egress of the 9-1-1 traffic, as these services in their entirety are paid for by the State of California.	Yes	Will be added to final Tariff submission
23.1.2	Implement NENA i3 standards and CPE delivery standards, as directed by CA 9-1-1 Branch, for each of the defined regions to support CA statewide interoperability.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 A: NG 9-1-1 Emergency Services, Sheet 100. 6/8/19
23.1.3	Have a minimum of two (2) geographically diverse Cores or the cloud based equivalent, within CONUS, dedicated to California with demonstrated capability that provides 99.999% availability.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 D: NG 9-1-1 Emergency Services, Sheet 102. 6/8/19
23.1.4	Shall comply with the overall management and direction of standards and best practices for consistency of 9-1-1 traffic between the Regions and Prime as determined by CA 9-1-1 Branch and the selected Prime NG9-1-1 vendor.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 A: NG 9-1-1 Emergency Services, Sheet 100. 6/8/19
23.1.5	Shall process and route any 9-1-1 traffic within California for the region awarded, including the 9-1-1 traffic transferred from the Prime to the awarded region.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 C: NG 9-1-1 Emergency Services, Sheet 101. 6/8/19
23.1.6	Process and route all wireless, AT&T wireline, Consolidated Communications wireline, and Frontier wireline OSP traffic in the Region awarded in the State of California, and any other regional OSP traffic that is not routed by the Prime.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 C: NG 9-1-1 Emergency Services, Sheet 101. 6/8/19
23.1.7	Shall be responsible to either pull, or receive a push of the centralized policy routing instructions maintained by the Prime that will be used in all of the regions.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 5D5: NG 9-1-1 Emergency Services, Sheet 119. 6/8/19
23.1.8	Shall be responsible for notifying CA 9-1-1 Branch of updates needed to Policy Routing in the awarded region.	Yes	Synergem NG91-1 Emergency Services, Section 7.05 D5: NG 9-1-1 Emergency Services, Sheet 119. 6/8/19

<p>23.1.9</p>	<p>Shall provide the security and firewalls needed to protect NG9-1-1 Services in accordance with NENA NG-SEC 75-001. The Network Service Provider shall detect, prevent and report TDOS, DDOS and any other Cyber attacks.</p>	<p>Yes</p>	<p>Synergem NG91-1 Emergency Services, Section 7.0 1 2: NG 9-1-1 Emergency Services, Sheet 104. 6/8/19</p>
<p>23.1.10</p>	<p>Shall agree to the CA 9-1-1 Branch utilizing a third party vendor to validate network security for all NG9-1-1 Services, in accordance with NENA NG-Sec 75-001 and subsequent standards.</p>	<p>Yes</p>	<p>Will be added to final Tariff submission</p>

<p>23.1.11</p>	<p>The current NENA approved security standard (NENA-INF-015.1-2016, NENA 75-001, NENA 75-502) Security for Next-Generation 9-1-1 Standard (NG-SEC) Standard and the associated NENA Next Generation 9-1-1 Security (NENA-INF-023.1-2017, NENA 75-002 - NG-SEC Audit Checklist) are required to be implemented. As the NENA security requirements evolve and mature and at the request of CA 9-1-1 Branch, Network Service Provider shall provide a plan to implement updates, adjustments, or modifications to maintain compliance with the current NENA security standard. The Network Service Provider shall monitor additional security repositories to identify threats and vulnerabilities to the system in the context of avoiding cybersecurity issues. Sites that are often utilized such as <a href="https://cve.mitre.org/">https://cve.mitre.org/</a>, <a href="https://nvd.nist.gov/">https://nvd.nist.gov/</a>, and <a href="https://www.us-cert.gov/">https://www.us-cert.gov/</a> can assist in the identification and analysis of potential vulnerabilities within the NGCS. Once a vulnerability or a threat has been identified, the Network Service Provider shall perform the initial and emergency response to the security event and will have no more than 24 hours to provide CA 9-1-1 Branch a document describing the measures taken, and any additional implementation plans to fully avoid a breach.</p>	<p>Yes</p>	<p>Synergem NG91-1                  Emergency Services, Section 7.0 1 2: NG 9-1-1                  Emergency Services, Sheet 105, 6/8/19</p>
<p>23.1.12</p>	<p>Shall supply a Configuration management database that documents all of the software, systems, network protocols, port usage and relevant system related information in a mutually agreed upon format. This configuration database shall include a linkage to their change management process to ensure that any change request that is implemented will result in update to the configuration management database. The shall follow industry standards best practices such as ITIL or the equivalent, and shall maintain a configuration management database that can be accessed by CA 9-1-1 Branch. Items that need to be included in the configuration management database include:</p> <ul style="list-style-type: none"> <li>o Bandwidth at each interface</li> <li>o Capacity and demand management as adjustments to the interfaces</li> <li>o Access management and any adjustments to the identification and access management to the NGCS</li> <li>o Service Level and Performance adjustments to adhere to the SLA</li> <li>o Security changes and adjustments – Physical and Operational</li> <li>o Configuration database dashboard or other method to allow real time access to the CA 9-1-1 Branch</li> <li>o As-built information contained in the system as the baseline configuration to provide a historical</li> </ul>	<p>Yes</p>	<p>Synergem NG91-1                  Emergency Services, Section 7.0 1 2: NG 9-1-1                  Emergency Services, Sheet 105, 6/8/19</p>

23.1.13	Shall provide 9-1-1 traffic flow architecture from ingress to egress.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 E: NG 9-1-1 Emergency Services, Sheet 103, 6/8/19
23.1.14	Shall interface with the selected Prime NG9-1-1 vendor at each PSAP, as directed by CA 9-1-1 Branch.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 c: NG 9-1-1 Emergency Services, Sheet 101, 6/8/19
23.1.15	The RNSP shall work with OSPs to validate the LVF maintained by PNSP so they can verify that civic addresses will return PSAP or emergency responder URIs. The PNSP LVF shall be made available via an LVF proxy in the public internet in a secure controlled manner provided by the PNSP. The RNSP LVF shall receive updates from the PNSP.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1 C: NG 9-1-1 Emergency Services, Sheet 101, 6/8/19
23.1.16	Shall connect to Prime and comply with interoperability as directed by Prime at the direction of CA 9-1-1 Branch.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 5 A: NG 9-1-1 Emergency Services, Sheet 113, 6/8/19
23.1.17	Shall utilize the PNSP defined and CA 9-1-1 Branch approved interface at aggregation, between regional and prime, at PSAP and for all other interoperability interfaces.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 4A: NG 9-1-1 Emergency Services, Sheet 110, 6/8/19
23.1.18	Shall support Location Based Routing using location data provide by either an Originating Service Provider, a device operating system, or a location clearing house as directed by the CA 9-1-1 Branch.	Yes	Synergem NG91-1 Emergency Services, Section 7.01C : NG 9-1-1 Emergency Services, Sheet 110, 6/8/19
23.1.19	Shall support the NENA i3 standards and guarantee a non-proprietary solution that supports interoperability.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1A: NG 9-1-1 Emergency Services, Sheet 100, 6/8/19
23.1.20	Shall provide services to process location data integration similar to Advanced Mobile Location (AML) for emergency location-based service that can support Data SMS and HTTPS data message formats and shall integrate the data as supplemental location information integrated into CPE that is capable of displaying the best available geolocation of the caller to a dedicated end-point as determined by CA 9-1-1 Branch.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 1A: NG 9-1-1 Emergency Services, Sheet 100, 6/8/19

23.1.21	RNSP shall connect in to the network master clock provided by PNSP. The PNSP provided master clock shall meet the NENA PSAP Master Clock Standard.	Yes	Will be added to final Tariff submission
23.1.22	RNSP shall provide a connection using an NG9-1-1 Trunk to the CA 9-1-1 Branch NG 9-1-1 Lab and shall participate in all acceptance testing in the NG 9-1-1 Lab environment or in other mutually agreed upon laboratory locations.	Yes	Synergem NG91-1 Emergency Services, Section 7.0 3B2: NG 9-1-1 Emergency Services, Sheet 107_6/8/19

Requirement	<b>Mandatory NG Core Services Requirements</b> The requirements are organized into General Requirements and then more specific requirements for each deployment method.	<b>Region Network Service Provider Agrees to meet the Requirement?</b>  YES/NO	<b>Tariff Service Info</b>
23.2.1	Shall use a multi-layered redundancy of systems, software and facilities with no single point of failure	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D 3 NG 9-1-1 Emergency Services, Sheet 117_6/8/19
23.2.2	Shall provide the ability to update all system components including but not limited to routers, router tables, servers, NG Core Services, and all NG9-1-1 functions without loss of service 24x7x365.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5 A NG 9-1-1 Emergency Services, Sheet 117_6/8/19
23.2.3	Shall be responsible to log all 9-1-1 metadata traffic for awarded region.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 108_6/8/19
23.2.4	Shall provide NENA i3 logging for all functional elements within the NGCS.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 108_6/8/19
23.2.5	Shall be responsible to send i3 logging data and other system monitoring data from the awarded NG Region to the NG9-1-1 Prime selected vendor.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5B NG 9-1-1 Emergency Services, Sheet 114_6/8/19
23.2.6	Shall utilize SIP metadata and i3 logging to monitor, track and verify data flow.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5B NG 9-1-1 Emergency Services, Sheet 114_6/8/19
23.2.7	Shall be able to provide a data push and/or pull of i3 logging data to and from Prime NG9-1-1 service provider.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5B NG 9-1-1 Emergency Services, Sheet 114_6/8/19



23.2.8	Shall provide NG9-1-1 services built upon the NENA i3 requirements and standards documents. The NENA i3 solution shall support end to end IP connectivity. Gateways shall be used to accommodate legacy wireline and wireless origination networks as well as legacy PSAPs that interconnect to the NENA i3 solution architecture.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 1A NG 9-1-1 Emergency Services, Sheet 100, 6/8/19
23.2.9	Shall provide Emergency Call Routing Function (ECRF) and Location Validation Functions (LVF) that comply with GIS standards that include but not be limited to NENA STA-010.2-2016 Detailed Functional and Interface Standards for the NENA i3 Solution.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D 3 NG 9-1-1 Emergency Services, Sheet 117, 6/8/19
23.2.10	Shall provide Emergency Services Routing Proxy (ESRP) to perform the IP routing of all calls through the NG9-1-1 system based on information from the SIP header.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D 5 NG 9-1-1 Emergency Services, Sheet 119, 6/8/19
23.2.11	Shall provide a PRF which is a functional component of an ESRP that determines the next hop in the SIP signaling path using the policy of the nominal next element determined by querying the ECRF with the location of the emergency calling party.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D 5 NG 9-1-1 Emergency Services, Sheet 119, 6/8/19
23.2.12	Shall be capable of transferring calls utilizing functions like ECRF/PRF, to/from the Prime NG Service Provider or PSTN including the delivery of accurate emergency calling party location information.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 1C NG 9-1-1 Emergency Services, Sheet 101, 6/8/19
23.2.13	Shall utilize the Border Control Function (BCF) as part of the NGCS to manage network edge control and SIP message handling in accordance with the NENA i3 requirements.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 104, 6/8/19
23.2.14	Shall utilize the BCF, both ingress and egress, to support the following security related techniques including Monitoring, Detections, Prevention, and Response.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 2 NG 9-1-1 Emergency Services, Sheet 104, 6/8/19
23.2.15	Shall provide at least two (2) ECRF/LVF instances utilized for the NGCS.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 1 D NG 9-1-1 Emergency Services, Sheet 102, 6/8/19

23.2.16	Shall provide a dashboard to display and report the health of the awarded Regional networks from ingress to egress. The solution shall provide QoS information, per NENA i3 standards.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 108. 6/8/19
23.2.17	Shall include at a minimum Real Time Network Outage Monitoring and Reporting for Regions to support failover interoperability and 9-1-1 traffic, show network uptime and downtime duration in the dashboard.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 107. 6/8/19
23.2.18	Shall monitor all 9-1-1 traffic to ensure that SLAs are being met in the dashboard.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 107. 6/8/19
23.2.19	Shall provide CA 9-1-1 Branch access to Dashboard Monitoring and statistical data and printable reports.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 108. 6/8/19
23.2.20	Shall retain all network, CDR and 9-1-1 traffic data for a period of ten (10) years.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3D NG 9-1-1 Emergency Services, Sheet 109. 6/8/19
23.2.21	Shall log and report all 9-1-1 traffic.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3D NG 9-1-1 Emergency Services, Sheet 109. 6/8/19
23.2.22	Shall provide CA 9-1-1 Branch access to Dashboard Monitoring and statistical data and printable reports. The Dashboard Monitoring service shall be a dedicated resource for California to support this contract.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 108. 6/8/19
23.2.23	Shall provide ability to dispatch technical support to any location where the contractor has equipment within 30 minutes of notifying technician of an outage that requires on-site technical support.	Yes	Will be added to final Tariff submission
23.2.24	Shall provide a point of contact, with a toll free telephone number, 365/24/7 for CA 9-1-1 Branch personnel and PSAP personnel to report trouble on the Prime NG9-1-1 Services.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 107. 6/8/19

23.2.25	Shall comply with NENA i3 PSAP integration standards established by CA 9-1-1 Branch that align with the NG9-1-1 Prime Selected Vendor integration standard.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5A NG 9-1-1 Emergency Services, Sheet 113. 6/8/19
23.2.26	Where the NENA i3 standard does not clearly define technical details, shall comply with CA 9-1-1 Branch and NG9-1-1 Prime selected vendor standards.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5A NG 9-1-1 Emergency Services, Sheet 113. 6/8/19
23.2.27	Shall use the data provided by the PNSP LDB and PNSP LVF to support the RNSP LVF validation function of the RNSP to ensure the LoST protocol is supported. The goal is to ensure that the PNSP remains the authoritative source for the LoST protocol.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5A NG 9-1-1 Emergency Services, Sheet 113. 6/8/19

Requirement	<b>Mandatory NG9-1-1 Aggregation Services Requirements</b> The requirements are organized into General Requirements and then more specific requirements for each deployment method.	<b>Region Network Service Provider Agrees to meet the Requirement</b>  YES/NO	<b>Tariff Service Info</b>
23.3.1	The Region Network Service Provider and any subcontractor providing aggregation services must have a CPCN and tariff filing.	Yes	Will add to final tariff submission
23.3.2	Shall provide an OSP traffic aggregation service for all wireless, AT&T wireline, Consolidated Communications Wireline, and Frontier wireline OSPs in the Region awarded in the State of California.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 1C NG 9-1-1 Emergency Services, Sheet 101. 6/8/19
23.3.3	Shall have a minimum of two (2) geographically diverse aggregation locations per CA 9-1-1 Branch awarded NG Region.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 4A NG 9-1-1 Emergency Services, Sheet 110. 6/8/19
23.3.4	Shall have a minimum of two (2) POIs per CA 9-1-1 Branch awarded NG Region.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 4A NG 9-1-1 Emergency Services, Sheet 110. 6/8/19
23.3.5	Shall be connected to the Prime Aggregation Service providers to support the ingress of OSP traffic.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 4A NG 9-1-1 Emergency Services, Sheet 110. 6/8/19
23.3.6	Shall provide ability to determine if Regional core services are available to reach PSAP before sending to Region, if PSAP is not reachable then shall send to Prime for delivery to PSAP.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5A NG 9-1-1 Emergency Services, Sheet 113. 6/8/19
23.3.7	Shall conform to the integration standards developed by CA 9-1-1 Branch and the NG9-1-1 Prime selected vendor for aggregation.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 4A NG 9-1-1 Emergency Services, Sheet 110. 6/8/19
23.3.8	Shall provide outage notifications to CA 9-1-1 Branch.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 107. 6/8/19

23.3.9	Shall provide outage notifications with duration to system monitoring dashboard.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3E NG 9-1-1 Emergency Services, Sheet 109. 6/8/19
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Requirement	<b>Mandatory NG9-1-1 Trunk Services Requirements</b> The requirements are organized into General Requirements and then more specific requirements for each deployment method.	<b>Region Network Service Provider Agrees to meet the Requirement</b>  YES/NO	<b>Tariff Service Info</b>
23.4.1	Shall comply with NENA i3 standards for 9-1-1 traffic delivery. NENA-STA-010.2-2016 and later versions.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5A NG 9-1-1 Emergency Services, Sheet 113, 6/8/19
23.4.2	Shall provide path diversity with both physical and carrier diversity. The CA 9-1-1 Branch understands that all bandwidths for NG 9-1-1 trunks may not be supported at all PSAPs and will work with the RNSP to determine path diversity. For each of the PSAP locations the individual circuits being provisioned to the site, by RSNP, shall meet CA 9-1-1 Branch carrier diversity/redundancy standards. CA 9-1-1 Branch shall be the sole arbitrator in determining their approval of the proposed circuit provider, the route and PSAP point of entry or other guidelines they deem essential to deliver redundancy.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 D3 NG 9-1-1 Emergency Services, Sheet 117, 6/8/19
23.4.3	NG9-1-1 Trunk service shall allow for 9-1-1 call isolation by stream or channel or via other means to enable the tracking of 9-1-1 traffic from ingress at the OSP to egress at the PSAP or to PNSP.	Yes	Will be added to final Tariff submission
23.4.4	NG9-1-1 trunk service shall support a minimum of 10Mbps throughput, unless directed by CA 9-1-1 Branch.	Yes	Will be added to final Tariff submission
23.4.5	Shall utilize NG9-1-1 Trunk service to connect to all California PSAPs, Prime NG Core Service provider, aggregation, and all other interfaces.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 1C NG 9-1-1 Emergency Services, Sheet 101, 6/8/19
23.4.6	Shall transport NG9-1-1 traffic and other 9-1-1 related traffic included but not limited to NG9-1-1 Alert and Warning, as directed by CA 9-1-1 Branch.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 1C NG 9-1-1 Emergency Services, Sheet 101, 6/8/19

23.4.7	Shall provide ability to monitor throughput statistics in real time.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 108, 6/8/19
23.4.8	Shall provide outage notifications to CA 9-1-1 Branch.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3E-F NG 9-1-1 Emergency Services, Sheet 109, 6/8/19
23.4.9	Shall provide outage notifications with duration to system monitoring dashboard.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3B NG 9-1-1 Emergency Services, Sheet 108, 6/8/19
23.4.10	Shall provide a private hosted SDWAN Controller by RNSP that interoperate with PNSP accessible over private network, including secure connectivity, trust and identity, and threat defense from PSAP to OSP / SaaS applications.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 4A NG 9-1-1 Emergency Services, Sheet 110, 6/8/19
23.4.11	SD WAN shall include transport independence. Centrally managed and shared VPN schema across any WAN circuit (i.e. CAPSNET Microwave, LTE, MPLS, broadband, etc.) and shall support flexible VPN extension to all end points (IaaS, PSAP branch, PSAP DC)	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 4A NG 9-1-1 Emergency Services, Sheet 110, 6/8/19
23.4.12	Shall provide a secure SD WAN architecture that supports open security standards such as IPsec etc.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 4A NG 9-1-1 Emergency Services, Sheet 110, 6/8/19

Requirement	<b>Mandatory Statewide GIS Requirements</b> The requirements are organized into General Requirements and then more specific requirements for each deployment method.	<b>Region Network Service Provider Agrees to meet the Requirement</b>  YES/NO	<b>Tariff Service Info</b>
23.5.1	Shall utilize the statewide GIS database maintained and updated by the NG9-1-1 Prime vendor to update PNSP ECRF for routing all 9-1-1 traffic.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D4 NG 9-1-1 Emergency Services, Sheet 118, 6/8/19
23.5.2	Shall comply with GIS standards to include, but not limited to, NENA NG9-1-1 GIS Data Model, NENA 02-010, and NENA 02-014.	Yes	
23.5.3	Shall receive updates to the GIS database from the PNSP, without disruption of ECRF LoST service. Updates shall be at least daily and shall be capable of receiving data updates 24x7x365 and provide confirmation receipt of data within 4 hours.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D4 NG 9-1-1 Emergency Services, Sheet 118, 6/8/19
23.5.4	Shall provide a maintenance function to upload the data from the statewide GIS dataset to update the ECRF and LVF to ensure proper routing of calls.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D4 NG 9-1-1 Emergency Services, Sheet 118, 6/8/19
23.5.5	Shall interface with the statewide 9-1-1 GIS synchronization and 9-1-1 database normalization	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D4 NG 9-1-1 Emergency Services, Sheet 118, 6/8/19
23.5.6	Shall utilize the PNSP database management services needed for NG9-1-1 traffic delivery.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D4 NG 9-1-1 Emergency Services, Sheet 118, 6/8/19
23.5.7	Shall route any type of 9-1-1 traffic to the appropriate PSAP based on geospatial data.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5A NG 9-1-1 Emergency Services, Sheet 113, 6/8/19



23.5.8	Shall provide on demand reports, performance measurements, discrepancy tracking, for GIS quality assurance and system status.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 5D4 NG 9-1-1 Emergency Services, Sheet 118, 6/8/19
23.5.9	Shall provide a dashboard or other tool to view system operation and data metrics.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 3 E-F NG 9-1-1 Emergency Services, Sheet 109, 6/8/19
23.5.10	Shall provide outage notifications to CA 9-1-1 Branch.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 6 A (10)NG 9-1-1 Emergency Services, Sheet 121, 6/8/19
23.5.11	Shall provide outage notifications with duration to system monitoring dashboard.	Yes	Synergem NG9-1-1 Emergency Services, Section 7.0 6 A (10)NG 9-1-1 Emergency Services, Sheet 121, 6/8/19