

DATE: 09/23/2021

TO: 911 Emergency Response Advisory Committee

FROM: Kannaiah Vadlakunta, Director, Department of Information Technology,
vadlakuntak@reno.gov, 775-334-2026 

SUBJECT: REQUEST FOR APPROVAL FOR FUNDING for the Dispatch-Fire Station Alerting System software, hardware and installation costs for the City of Reno Public Safety Dispatch in an amount not to exceed \$1,240,000.00.

SUMMARY

The City of Reno's Public Safety Answering Point (PSAP) transmits audible notification alerts to responding fire station(s) during emergency fire events to inform fire staff of required resources. The fire station alerting system is at the end-of-life and is out of warranty. The City of Reno Public Safety Dispatch and Fire Department requires a new system to ensure there is a reliable enhanced communication system between dispatch and the fire stations during fire emergency calls.

BACKGROUND

City of Reno Fire Stations are equipped with a legacy fire station-alerting system that has been at the end-of-life and out of warranty for many years. The operational abilities are also limited and do not allow dispatch and fire to have expanded communication capabilities between them such as automated trigggers, multi-tones, voice messaging and soft-start alerts. On the dispatch side, functionality is often limited. Dispatchers must manually trigger multiple pages to the fire station(s), sometimes causing a delay in the alerts. There are also multiple server and network failure points within the system causing outages and frequent downtimes.

Alerting of emergency calls and the various operational needs for fire resources is critical to dispatch services. This is a primary notification system between dispatch and fire resources. After a review of the current needs and the expanded capabilities listed above, the Department of Information Technology, in consultation with the City of Reno's Public Safety Dispatch and Reno Fire Department personnel, recommends purchasing the software, alerting equipment, and installation at a cost not to exceed \$1,240,000.00. The recommended system is the PURVIS Fire Station Alerting System™ (PURVIS FSAS™) which includes the Dispatch Center and fourteen (14) Fire Stations for the Reno Fire Department.

The attached quotes reflect the following:

- Quote for Software, Hardware, and Installation on a 5-year warranty contract with 10% contingency (one-payment): \$1,209,683.57

- Quote for Software, Hardware, and Installation on a 5-year warranty contract with 10% contingency (Five (5) annual Payments): \$1,237,183.57

NRS APPLICABLE

NRS 244A.7645 Provides approval of costs associated with maintenance, upgrade and replacement of equipment necessary for the operation of the enhanced telephone system. The following is a complete definition of the NRS 244A.7645, with applicable sections highlighted:

NRS 244A.7645 Establishment of advisory committee to develop plan to enhance or improve telephone system; creation of special revenue fund; use of money in fund.

1. If a surcharge is imposed pursuant to **NRS 244A.7643** in a county whose population is 100,000 or more but less than 700,000, the board of county commissioners of that county shall establish by ordinance an advisory committee to develop a plan to enhance the telephone system for reporting an emergency in that county and to oversee any money allocated for that purpose. The advisory committee must consist of not less than five members who:
 - (a) Are residents of the county;
 - (b) Possess knowledge concerning telephone systems for reporting emergencies; and
 - (c) Are not elected public officers.
2. If a surcharge is imposed pursuant to **NRS 244A.7643** in a county whose population is less than 100,000, the board of county commissioners of that county shall establish by ordinance an advisory committee to develop a plan to enhance or improve the telephone system for reporting an emergency in that county and to oversee any money allocated for that purpose. The advisory committee must:
 - (a) Consist of not less than five members who:
 - (1) Are residents of the county;
 - (2) Possess knowledge concerning telephone systems for reporting emergencies; and
 - (3) Are not elected public officers; and
 - (b) Include a representative of an incumbent local exchange carrier which provides service to persons in that county. As used in this paragraph, "incumbent local exchange carrier" has the meaning ascribed to it in 47 U.S.C. § 251(h)(1), as that section existed on October 1, 1999, and includes a local exchange carrier that is treated as an incumbent local exchange carrier pursuant to that section.
3. If a surcharge is imposed in a county pursuant to **NRS 244A.7643**, the board of county commissioners of that county shall create a special revenue fund of the county for the deposit of the money collected pursuant to **NRS 244A.7643**. The money in the fund must be used only:

(a) In a county whose population is 45,000 or more but less than 700,000, to enhance the telephone system for reporting an emergency, including only:

- (1) Paying recurring and nonrecurring charges for telecommunication services necessary for the operation of the enhanced telephone system;
- (2) Paying costs for personnel and training associated with the routine maintenance and updating of the database for the system;
- (3) Purchasing, leasing or renting the equipment and software necessary to operate the enhanced telephone system, including, without limitation, equipment and software that identify the number or location from which a call is made; and.
- 4) Paying costs associated with any maintenance, upgrade and replacement of equipment and software necessary for the operation of the enhanced telephone system.

(b) In a county whose population is less than 45,000, to improve the telephone system for reporting an emergency in the county.

4. If the balance in the fund created in a county whose population is 45,000 or more but less than 700,000 pursuant to subsection 3 which has not been committed for expenditure exceeds \$1,000,000 at the end of any fiscal year, the board of county commissioners shall reduce the amount of the surcharge imposed during the next fiscal year by the amount necessary to ensure that the unencumbered balance in the fund at the end of the next fiscal year does not exceed \$1,000,000.
5. If the balance in the fund created in a county whose population is less than 45,000 pursuant to subsection 3 which has not been committed for expenditure exceeds \$500,000 at the end of any fiscal year, the board of county commissioners shall reduce the amount of the surcharge imposed during the next fiscal year by the amount necessary to ensure that the unencumbered balance in the fund at the end of the next fiscal year does not exceed \$500,000.

(Added to NRS by 1995, 1056; A 1999, 1686; 2001, 621, 2125; 2007, 561; 2009, 641; 2011, 1124)

STAKEHOLDER REVIEW(s)

Stakeholders are City of Reno Public Safety Dispatch, the Reno Fire Department and the Department of Information Technology (Reno).

PREVIOUS ACTION

This request for funding was previously brought to the E911 board for approval on January 21, 2021 and the request from the board was to coordinate with the other Fire Departments and

Dispatch centers since all the Fire Station Alerting Systems were in need of replacement. In addition, it was also requested to be added to the 5 year budget plan for the E911 Committee to assist in fiscal planning. Every Fire Department received the bids and contact information from each of the vendors who produced a viable product. It should be noted however that previous purchases of software to enhance PSAP communications have been approved by the board on various occasions.

FISCAL IMPACT

The Enhanced 911 Fund is a special revenue fund which receives revenue pursuant to NRS 244A.7643 in the form of telephone surcharges collected to support the emergency reporting system. Budget authority exists within the E911 Fund to support the Dispatch and Fire Station Alerting System. The total cost for the system, including software, hardware, project management, training, installation and warranty would not exceed \$1,240,000.00 for a five-year contract.

RECOMMENDATION

It is recommended that the E911 Emergency Response Advisory Committee approve the request for funding for the Dispatch-Fire Station Alerting System software, hardware and installation costs for the City of Reno Public Safety Dispatch in an amount not to exceed \$1,240,000.00.

POSSIBLE MOTION

Motion to approve funding for funding for the Dispatch-Fire Station Alerting System software, hardware and installation costs for the City of Reno Public Safety Dispatch in an amount not to exceed \$1,240,000.00 and allow the City of Reno's Department of Information Technology to move forward with the purchase and implementation of said system.

PURVIS PRICE QUOTATION - Reno Fire Department



Tax ID #: 11-2299301

Date: _____

Quote #: PC2022-029

Agency: Reno Fire Department

Address: _____

88 Silva Ln
 Middletown, RI 02842
 Sales: J. Mascola 401-619-2466
 Contracts: M Craft 401-845-8401

Agency POC: _____

Phone #: _____

Task:

The City of Reno, NV requests the procurement, implementation and installation of the PURVIS Fire Station Alerting System™ (PURVIS FSAS™) at the Dispatch Center, and fourteen (14) Fire Stations for the Reno Fire Department.

sales: J. Mascola 401-619-2466

Hardware:

Item	PURVIS Part #	Qty	Unit Price	HGAC Contract Discount (3%)	Extended Price
Central Server	315-010100-131	2	\$5,975.00	\$5,795.75	\$11,591.50
Dispatch Management (DM) Console	315-020104-131	1	\$1,795.00	\$1,741.15	\$1,741.15
Radio Interface Unit (RIU) Two (2) Audio Channel - 1U	315-320003-131-2	1	\$3,865.00	\$3,749.05	\$3,749.05
RIU to Motorola Radio Cable - 1 Ch	315-321002-131	2	\$315.00	\$305.55	\$611.10
Station Control Unit (SCU) - No Screen	315-030004-131-NN	14	\$17,500.00	\$16,975.00	\$237,650.00
SCU Remote Touch Screen (RTS) - 22"	315-250005-131	14	\$605.00	\$586.85	\$8,215.90
Remote Touch Screen Video Distribution - VGA TX/RX	315-250300-131	14	\$410.00	\$397.70	\$5,567.80
Vesa Mount for VGA Receiver	315-250100-131	14	\$50.00	\$48.50	\$679.00
Wall Mounting Bracket, Tilt, RTS Monitor	315-190302-131-RTS	14	\$25.00	\$24.25	\$339.50
USB Extender, 1-Port	315-250202-131	14	\$105.00	\$101.85	\$1,425.90
24 Port Unmanaged Network Switch	315-290005-131-LAN	14	\$225.00	\$218.25	\$3,055.50
Uninterruptible Power Supply (UPS) - 2U - Line Interactive 1500VA	315-040308-131	14	\$935.00	\$906.95	\$12,697.30
Audio/Relay Expansion Module (ARXM) 25/70v, 8 Zone/8 Relay	315-442000-131-8/8	28	\$4,275.00	\$4,146.75	\$116,109.00
Dorm Remote (Color)	315-410000-131- C	96	\$115.00	\$111.55	\$10,708.80
Dorm Remote Gateway (DRG) 8 port	315-400001-131-8	9	\$1,410.00	\$1,367.70	\$12,309.30
Dorm Remote Gateway (DRG) 16 port	315-400001-131-16	5	\$1,935.00	\$1,876.95	\$9,384.75
Recessed Speaker, 8" (25/70v)	315-130401-131-SO	90	\$65.00	\$63.05	\$5,674.50
Recessed Speaker, 8" with Red/White LED Ring (25/70v)	315-141001-131-RW	175	\$300.00	\$291.00	\$50,925.00
Recessed Speaker Mount	315-130360-131	265	\$20.00	\$19.40	\$5,141.00
Outdoor/Bay Speaker (25/70v) 15w	315-150408-131	47	\$160.00	\$155.20	\$7,294.40
Amplifier 1 Ch (25/70v) 250w	315-070304-131	14	\$1,150.00	\$1,115.50	\$15,617.00
Turnout Timer 24" LED Display, 1 Line	315-210006-131-TT	21	\$425.00	\$412.25	\$8,657.25
Strobe Light (Red), Interior, Wall	315-260008-131-R	14	\$80.00	\$77.60	\$1,086.40
Remote Push Button, Green, 22mm, Illuminated	315-280004-131-G	14	\$60.00	\$58.20	\$814.80
Power Strip - Rack Mount	315-010500-131	14	\$115.00	\$111.55	\$1,561.70
TOTAL					\$532,607.60
Sales and Use Tax					\$0.00
TOTAL HARDWARE					\$532,607.60

Hardware Prices do not include installation or any system configuration, if applicable. Any applicable manufacturer warranties will be extended to the customer.

Hardware lead time is 10 weeks after receipt of order (ARO)

Software:

Item	PURVIS Part #	Qty	Unit Price	HGAC Contract		Extended Price
				Discount (3%)		
Central Server FSAS Software License (Perpetual)	315-990000-120	2	\$10,000.00	\$9,700.00		\$19,400.00
Central Server Database Software License (Perpetual)	315-990001-120	2	\$7,535.00	\$7,308.95		\$14,617.90
DM Console Seat License (Perpetual)	315-990100-120	1	\$1,500.00	\$1,455.00		\$1,455.00
PURVIS FSAS API License (Perpetual)	315-990200-120	2	\$5,000.00	\$4,850.00		\$9,700.00
Text-to-Speech (TTS) Voice Module Software License (Perpetual)	315-990400-120	16	\$1,410.00	\$1,367.70		\$21,883.20
Station Control Unit (SCU) FSAS Software License (Perpetual)	315-990300-120	14	\$300.00	\$291.00		\$4,074.00
TOTAL						\$71,130.10
Sales and Use Tax						\$0.00
TOTAL SOFTWARE						\$71,130.10

FIXED PRICE SERVICES:

Description	Unit Price	HGAC Contract Discount (3%)	Price
Implementation Services (Project Management, Configuration, Integration, Test, Installation Support, & Training)	\$85,000.00	\$82,450.00	\$82,450.00
Freight/Shipping & Handling		\$3,130.00	\$3,130.00
1 Year Warranty with 24/7/365 Support (Begins upon final system acceptance by the Reno Fire Department)		Included	\$0.00
TOTAL SERVICES			\$85,580.00
GRAND TOTAL			\$689,317.70

Extended Warranty

Description	Qty	Unit Price	HGAC Contract Discount (3%)	Extended Price
Annual Extended Warranty with 24/7/365 Support (Extended warranty begins 1 year after final system acceptance from the Reno Fire Department)	4	\$37,500.00	\$36,375.00	\$145,500.00
Sub-Total Extended Warranty				\$145,500.00
Grand Total w/out Installation				\$834,817.70

System Installation*	\$264,894.64
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Grand Total with Installation	\$1,099,712.34
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Optional Annual Payment Plan (extended warranty throughout duration of payment plan is required)

Payment Plan Fee	\$25,000.00
Total Purchase Price	\$1,124,712.34

Annual Payments

Payment	Total
Payment # 1 (invoiced upon contract signing)	\$224,942.47
Payment # 2 (invoiced year 2)	\$224,942.47
Payment # 3 (invoiced year 3)	\$224,942.47
Payment # 4 (invoiced year 4)	\$224,942.47
Payment # 5 (invoiced year 5)	\$224,942.47
Total	\$1,124,712.34

SALES AND USE TAX: Any required sales and use tax not identified in this quote is responsibility of the quote recipient or Fire Station Alerting System end-user. PURVIS is not responsible for the collection of any required taxes and payments to any tax collection agencies.

PAYMENT TERMS: Net 30

VALIDITY: This FFP Quote is valid for 90 days

WARRANTY: First Year Remote Warranty & Maintenance begins upon final system acceptance by the Reno Fire Department.

PURVIS AGREEMENTS: The PURVIS FSAS Standard License Agreement and the PURVIS FSAS Maintenance Agreement must be signed and returned to PURVIS Systems with any initial orders placed for the PURVIS Fire Station Alerting System.

END-USER LICENSE/MAINTENANCE AGREEMENTS: All purchased hardware and software resulting from this quote will be licensed, warranted and maintained under the existing PURVIS FSAS End-User License Agreement and PURVIS FSAS Warranty, Maintenance and Service Agreement - with the Reno Fire Department.

EXPORT CONTROL: Products purchased or received under any resulting Sale may be subject to export control laws, restrictions, regulations, and orders of the United States. Customer agrees to comply with all applicable export laws, restrictions and regulations of the United States or foreign agencies or authorities, and shall not export, or transfer for the purpose of re-export any product to any prohibited or embargoed country or to any denied, blocked or designated person or entity as mentioned in any United States or foreign law or regulation.