

Addendum #1 to the City of Tustin RFP
Mobile Data Computer, Mobile Audio Video, and Body Worn Camera
Contract (Responses are in Red)

1. If answers are not forthcoming within 2 business days, will City of Tustin grant a 1-week extension to ensure preparation of effective responses?

No, and answers will be posted no later than COB 9-1-2015.

2. In reference to Section 3.7 Delivery Schedule, Proponents are asked to provide “an integrated project timeline and implementation plan for the SYSTEM... (and)... include details for all phases of activity for the project including deliverables and major milestones.” Must this requested description be within the ten pages limit, or may it be formatted as a chart, and considered to be a table or chart or graphic exhibit?

It can be included as an attachment in chart or graphic format. The 10 page limitation is for your narrative response regarding specifics for the RFP.

3. Is the Work Plan requested to be within the ten pages limit in the Approach, or may it be formatted and considered to be a table or chart or graphic exhibit?
4. Can you confirm that since the org chart/organization diagram may be considered to be a table or chart or graphic exhibit, may it also be formatted to include/incorporate the required description of the roles and responsibilities of all key staff?

Items 3 and 4 can be considered attachments as a chart or an exhibit to your response.

5. May proponents include videos relevant to understanding the Proponents body-worn camera to be attached to the Proposal on a jump drive, and as such can it be considered to be a graphic exhibit (and thus beyond the ten page limit)?

Jump drives or videos will not be accepted. If a particular vendor submits their response on time, and is selected to participate in vendor “Demo Days” currently scheduled for September 29th and 30th, additional information in an educational

format outlining the competitive advantage of their product can be delivered at that time.

- 6. Will this be a rip and replace of all of the old equipment, or will we be able to use existing mounting arms and post?**

Tustin Police Department will manage the removal and replacement of all existing and newly purchased equipment with our current provider. Selected vendors will be responsible for any training or technical guidance to ensure proper installation protocol is followed for your particular hardware and software requirements.

- 7. Does the City expect a continuous rollout deployment, or are there certain groups that will be done at different times, perhaps weeks apart?**

It is challenging for a police department of our size to have too many marked patrol vehicles out of service at any one time. We anticipate that once a final vendor (s) is selected, the refresh and installation period should be completed in six months or less.

- 8. Are installations to be provided at one location?**

The chosen installer will be geographically located near the City of Tustin.

- 9. Will installation bays be available or does the City have a planned installation site?**

We have a planned installation site

- 10. How many vehicles can be available per day?**

We estimate 1-3 vehicles can be out of service for installation at any given time.

- 11. Are de-installation services needed (old or duplicative equipment we need to remove)?**

No, Tustin Police Department will manage the process of the removal of existing equipment.

- 12. Just to verify, will the components only be removed or components and all cabling, hidden or otherwise?**

See answer to question 11.

- 13. If yes to #8, will the City provide the vendor with a place to dispose the old equipment?**

Yes, we will arrange for the disposal of any existing equipment that is being removed from service.

14.If mounting equipment is reused, does that old equipment become part of the vendor's warranty maintenance responsibility?

Mounting equipment will be refreshed during this project. Vendors are not expected to warranty mounting equipment. The exception would be any docking station which is an integral part of your mobile computer solution.

15.What are the hours and days of access to the installation site?

0700-1600 hours Monday through Friday is anticipated by our chosen installer.

16.Warranties vary by components, and several components make up the System. Is the City's request for 5-year warranty on all devices and components of the System?

Yes, the request is to provide a quote which will cover the expense of repair or replacement of any component of the "system" for a period of 5 years. The warranty period will begin on final acceptance upon the completion of all installations, and will not be a staggered warranty period for the fleet.

17.Will the MDC's be removed from the vehicle by officers throughout their shift or it is the City's intention for the MDC to remain fixed in the vehicle for the duration of the officer's shift? (Section 1)

The RFP requests a fixed mounted, ruggedized laptop or tablet. If a removable solution is recommended, the intention is for the vendor to bid a docking station which will allow such device to be removed from the vehicle, and still allow connectivity to the Verizon 4G LTE network so software applications (example—CLETS, report writing, CAD) can still be accessed once the device is removed from the vehicle.

18.Although each of the 37 vehicles will not receive a MAVS, will each of the 37 vehicles receive an MDC? (Section 3.1)

Yes - each vehicle will have a new MDC installed as part of this project. The Command Post will not have in car video. The command post will have at least one new computer system installed.

19.Will the City accept a smaller display than 13.1", if so, will 11.6" be acceptable? (Section 4.3, 1.e)

Your response to the RFP may include the recommendation to utilize a smaller display than what is described in section 4.3.1. However, it must be noted as an exception in your response.

20. What peripherals will attach to the MDC? (Section 4.3, 1.h)

This list is a tentative list, and may not include all final needs for this agency. The list at this time will include a video feed, keyboard, air card, ALPRS, and GPS. Discussions internally may include the expansion of bar code readers, biometrics for 2FA, and printers.

21. In reference to Section 4.1, number 1, how would the City define critical reliability?

It is the vendor's responsibility to provide reliability specifications on their recommended equipment. Once the RFP is submitted we will review performance characteristics as submitted by each vendor.

22. In reference to Section 4.1, number 2, what existing media systems does the SYSTEM need to be compatible with?

The preference is to locate a single vendor who can offer both an in car and body worn camera in conjunction with their in car computer solution. The City of Tustin and the Tustin Police Department retains the right to "unbundle" as we search for the best vendor to meet our needs, and can choose up to three independent vendors (defined as in car computers, in car video, and body worn cameras) to meet each individual solution. As such, the goal of the agency is to have vendors cooperate in the development of any needed API's so that all collected media can be deposited into a single common repository if such a solution is possible.

23. In reference to Section 4.1, number 6, how would the City define acceptable voice and data transfer capability?

It is the vendor's responsibility to provide reliability specifications on their recommended equipment. Once the RFP is submitted we will review performance characteristics as submitted by each vendor.

24. In reference to Section 4.3, would the City prefer a SYSTEM that makes each vehicle a WIFI hotspot, therefore removing the need to have embedded wireless in each MDC and allowing the City to use one data plan to support multiple WIFI devices in and around the vehicle?

The benefit of having an embedded wireless solution in each MDC is distance from the vehicle is not an issue. When docked in a vehicle a Wi-Fi hotspot solution to support multiple devices would be considered.

25. In reference to Section 4.4, would the City prefer an in car mobile audio video system that incorporates the audio from the bodyworn camera into the video stream thus eliminating the need to purchase an additional wireless microphone?

Absolutely, and a single microphone used to support both the collection of video and voice for both body worn and in car would be the preferred solution. The agency will also need a fixed microphone inside the vehicle that can record voice and video in the back seat of the police vehicle.

26. In reference to Section 4.4, letter G, how does the City plan to address chain of custody issues if the chosen system incorporates removable media?

Our solution is to upload media either on our dedicated Wi-Fi network at the Police Department and City yard, or via the air card over Verizon 4G LTE's network for in car video systems. If a device utilizes a removable media card, the device must have the ability to be locked so card removal without the proper authorization and/or key system is not permitted. Body-worn cameras with removable media, as long as the device is secured and uploaded utilizing a docking station, would be considered.

27. In reference to Section 4.6, would the City consider an alternative design for the forward facing camera assuming video quality was equal to or better than what has been specified?

The goal of this RFP process is to identify the best solution for the City of Tustin and the Tustin Police Department. We recognize technology advances are changing the way cameras capture images, and such design of camera systems has advanced. We will consider an alternative design to traditional camera systems.

28. Page 7, 4.3 Mobile Data Computer

The SYSTEM must support and facilitate the reliable and efficient operation of any Windows based software application designed to work within a public safety environment. Samples of such applications would include CAD, In-Car Mobile Audio and Video (as described in Section 4.4), License Plate Reader technology, mapping software, and any other application which operates as...

Question: What CAD and ALPR system is being utilized?

Our CAD provider is West Covina Service Group. Our primary LPR vendor is Vigilant Solutions, and we have several LPR cars supported by Data-911 which is currently being phased out and will be removed from service once all MDC's are refreshed.

29. Page 8, 4.3 Mobile Data Computer

Any device considered must have an internal Verizon 4G LTE air card which will allow continued connectivity for all applications when the device is not docked in the police vehicle.

Question: If COBAN quotes a M.A.R for this connectivity, is this acceptable?

You can quote a M.A.R., but the question would be connectivity when the officer removed the mobile data computer, and exceeded the limits to connect to the M.A.R. The goal is to maintain connectivity to the Verizon 4G LTE network so all functions remain operational

30. Page 8, 4.3 Mobile Data Computer

1. Mobile Data Computer. The minimum device hardware specifications include the following:

d. 16GB RAM. Devices with memory expansion slots are preferred.

e. 13.1” XGA, minimum 1024x768 resolution, touch screen LCD display, outdoor/sunlight viewable. Monitor should have the ability to go completely dark

h. Minimum 4 USB ports

j. Bluetooth connectivity

Question: In reference to these minimum specifications, will the City consider our fixed mounted TITAN M7 MDC which has 8 GB RAM, 12.1” Touchscreen display, 7 USB ports , 256GB solid state drive, 2 RJ-45 nics, 2 serial port and built in video capability in one platform?

Deviations from the stated minimum specifications can be submitted as long as they are identified as being an exemption to stated specifications. Our intent is to utilize a ruggedized notebook or tablet computer which can be removed from the police vehicle and utilized when the officer is away from the car. We will consider fixed mounted solutions, but that is not our primary preference.

31. Page 10, 4.5 In-Car Digital Evidence Management System

5. Video Asset Verification: The evidence management system should use a SHA-2 hash. Question: The system we will propose uses a 128 Bit MD5 Hash to create a unique digital signature for each video at the time of recording, is this acceptable?

SHA-2 is the preferred solution. We view 128 Bit MD5 as less secure.

32. Page 11, 4.5 In-Car Digital Evidence Management System,

8. Digital Evidence Retention Policy and Workflow Management: the system will be configured to manage a given type of offense, (e.g. DUI) for three years in primary storage and transfer to secondary storage for an additional five years; then to the recycle bin automatically.

Question: What percentage of video storage from the three years in primary storage is transferred to secondary storage for five years? (estimate)

Our default storage is currently one year for all in car recorded video. Video can be tagged for either 5 years or permanent storage. All video is currently stored on our internal servers, and is not transferred to a secondary storage media.

33. Page 11, 4.6 In-Car Video Mounting Solution

6. 4 in 1 antenna

Question: Please elaborate on the reference to 4 in 1 antenna?

All of our police cars have an installed Wi-Fi, 4G, and GPS antennas into a single device manufactured by Antenna Plus.

34. Page 12, 4.7 Body Worn Video Camera Solution

9. Video should be able to integrate with the City of Tustin's Asset Management Solution.

Question: What AMS is currently being used, and what extent of integration is required?

The preference is to locate a single vendor who can offer an integrated solution for both in car and body worn cameras. The City of Tustin and the Tustin Police Department reserve the right to "unbundle" such a solution and choose three independent vendors to provide a dedicated solution for these in car, body worn, and in car computer needs. The final AMS solution has not been identified, but any winning vendor would be required to work to develop any needed API to deposit video into any newly deployed AMS. The goal is to have all in car video and body worn video in a single repository and database management system.

35. Page 13, Detailed minimum requirements: Integrated Body Worn Solution: Section 8, Separate Audio Resolution and Encoding/Compression.

Question: Is being able to record audio only a Requirement?

No, it is not a requirement as per the RFP.

36. Page 14, Detailed minimum requirements: Integrated Body Worn Solution:

Section 13. Data Transfer, Recommend standard USB2/USB3 compliant connection (mini/micro) for charging and/or data transfer. USB3 is preferred as speeds are considerably faster. The connections should be standard on both the device and on any docking station. Data connections that use a proprietary form factor are not recommended.

Question: The ECHO BWC has optional 2 & 6 Bay uploading/charging docks vs USB available to be used for multiple docking and charging capability with quick POGO connection (similar to contacts on officers hand held radios). Will this be considered acceptable?

Such a docking solution would be considered, but should be noted as an exception in your RFP response.

37. What is the number of shifts per day with body worn cameras?

The City of Tustin operates both overlapping shifts in both a 3-12.5 hour format, and a 4-10 hour format. Patrol officers are assigned to a 3-12.5 schedule on three rotating shifts daily (dayshift from 0600-1830, cover shift from 1330-0200, and graveyard from 1800-0630). The number of officers in the field will vary depending on the day of the week and the time of day, but you can expect at minimum deployment levels you would have 7 officers/supervisors in uniform driving marked patrol vehicles, to approximately 20 uniformed officers (SED, K-9, Gangs, and general patrol personnel) depending on the day of the week and how schedules may overlap.

In the event of an emergency the number of uniformed personnel can increase dramatically. The department has approximately 100 sworn employees, and any solution must be scalable to accommodate flexing needs.

38. What is the number of body worn cameras deployed per shift?

Each officer will be assigned their own BWC. Refer to answer in question #37.

39. What is the estimated number of hours of body worn camera recording per shift?

Unknown at this time as the City of Tustin and the Tustin Police Department have not deployed this technology.

40. What is the number of shifts per day with ICV cameras?

41. What is the number of ICV cameras deployed per shift?

The answer to questions #40 and #41 is included in answer #37.

42. What is the estimated number of hours of ICV camera recording per shift?

Some departments will not have an estimate. A good rule of thumb:

2 hours video per eight hour shift

3 hours of video per ten hour shift

4 hours of video per twelve hour shift

Vendor should consider approximately 3-4 hours of video per shift for in car camera operation. We do not yet have any estimates for video rates for body worn cameras as they have not been deployed at our agency.

43. What is the number of days video will be retained on the server?

Answered. One year minimum.

44. Will the body worn cameras be assigned to each officer or shared?

Each officer will be assigned their own BWC.

45. How many station/locations for body worn camera video uploads?

This has not been determined as we currently are not utilizing BWC's.

46. Is the storage to be distributed or Centralized?

Depends on the vendor solution offered, and a final strategy has not been determined.

47. What is the current Network Infrastructure?

Due to modern security concerns this information will not be disclosed.

48. On page 12 of the RFP, specification 9 states: "Video should be able to integrate with the City of Tustin's Asset Management Solution." What is the City of Tustin's Asset Management Solution? How should the video be able to integrate with it?

The preference is to locate a single vendor who can offer an integrated solution for both in car and body worn cameras. The City of Tustin and the Tustin Police Department reserve the right to "unbundle" such a solution and choose three independent vendors to provide a dedicated solution for these in car, body worn, and in car computer needs. The final AMS solution has not been identified, but any winning vendor would be required to work to develop any needed API to deposit video into any newly deployed AMS. The goal is to have all in car video and body worn video in a single repository and database management system.

49. Section 5.1 "Content and Format" under the Proposal Requirements on page 14 of the RFP states that, "Proposals shall contain no more than 10 typed pages...". Is it acceptable to submit a proposal printed on both sides of the paper? In order to meet the requirements, will paper printed on both sides count as one page or two pages?

No - 10 pages only, not front and back. Attachments with references are allowed.

50. On page 7 of the RFP, under 4.1 General Requirements, standard 2 states that the System must incorporate "Compatibility with existing Media Systems." What are the existing Media Systems the system needs to be

compatible with?

The preference is to locate a single vendor who can offer both an in car and body worn camera in conjunction with their in car computer solution. The City of Tustin and the Tustin Police Department retains the right to “unbundle” as we search for the best vendor to meet our needs, and can choose up to three independent vendors (defined as in car computers, in car video, and body worn cameras) to meet each individual solution. As such, the goal of the agency is to have vendors cooperate in the development of any needed API’s so that all collected media can be deposited into a single common repository if such a solution is possible.

51. The Technical Specifications also mention Tablet Computer. Does this include a convertible notebook? Will a 11.6” screen size tablet or convertible notebook be acceptable to the City?

The RFP does specify a fixed, ruggedized laptop, or tablet computer. If you wish to suggest alternative equipment, or an alternative screen size, you are approved to submit with the notation it is an exception from the stated RFP and should be noted in your response. Refer to Section 4.3

52. Is the city currently using two Factor Authentication? If so, what two factors?

Yes, and 2FA is our current vendor utilizing challenge questions for compliance.

53. Is integrated GPS needed in the MDC?

If the presented device recommended by the vendor is removable, the integrated GPS is preferred.

54. Will the City provide a list of police equipment which the awarded vendor will be responsible with removing from current vehicle setups?

The City of Tustin will select a vendor who will be responsible for removal and installation of all newly purchased equipment from any and all vendors. The vendor will be responsible to ensure our chosen installer is qualified and trained to install vendor’s equipment.

55. Will the City invite vendors to inspect each type of fleet vehicle involved in the RFP Specifications, or will interior/exterior photos of each vehicle type be made available?

Vendors are free to make an appointment to inspect the fleet where equipment will be installed. Such windows for inspection will not be granted until RFP

responses are reviewed after September 14, 2015. A description of police vehicles is included in the original RFP.

56. Will a server and storage need to be quoted or will the City be providing their own server?

We are evaluating our options regarding server and storage needs, and will consider either an on-site or an outsourced cloud based solution.

57. Does the City request cloud hosting? If so, do we need to quote?

Since cloud based hosting solutions are being considered, you are encouraged to submit a quote with your response.

58. One of the requirements for the in car video system is wireless offload, does this mean Wi-Fi, or does the City also want to offload via cellular network?

We currently utilize both with a dedicated Wi-Fi network at the police facility and City yard, and we also are currently uploading video via Verizon 4G LTE.

59. In 4.6 In-Car Video Mounting Solution, one of the requirements is a 4 in 1 antenna, what 4 technologies need to be included in the antenna?

Our antenna solution is Antenna Plus. It integrates GPS, Wi-Fi, and Cellular.

60. Can the City please identify how many shifts are operated on a 24-hour schedule? For example: 3x10hour shifts, 2x12hour shifts, etc.

The City of Tustin operates both overlapping shifts in both a 3-12.5 hour format, and a 4-10 hour format. Patrol officers are assigned to a 3-12.5 schedule on three rotating shifts daily (dayshift from 0600-1830, cover shift from 1330-0200, and graveyard from 1800-0630). The number of officers in the field will vary depending on the day of the week and the time of day, but you can expect at minimum deployment levels you would have 7 officers/supervisors in uniform driving marked patrol vehicles, to approximately 20 uniformed officers (SED, K-9, Gangs, and general patrol personnel) depending on the day of the week and how schedules may overlap.

In the event of an emergency the number of uniformed personnel can increase dramatically. The department has approximately 100 sworn employees, and any solution must be scalable to accommodate flexing needs.

61. During an “average” day, how many officers with cameras would be out

on each individual shift?

See answer #60. All uniformed officers will drive marked police vehicles utilizing in car video, and each officer in uniform will be equipped with a body worn camera.

62. During an “average” day, how many vehicles are out on each individual shift?

The number can vary based on normal field activity from 7 marked police vehicles to over 20. In emergencies, the entire fleet can be deployed based on need. Vehicle count is included in the RFP.

63. Is it the intent of the City to have one central docking/download location or will the city be using multiple locations? Can the City provide the list of the location(s)?

Currently the City of Tustin uploads in car video media in two different ways. We continually push media via the Verizon 4G air card installed in each marked police car, and also have Wi Fi connectivity points at both the main police facility and City yard. In car video solutions would be required to support both upload solutions. In regards to Body Worn Cameras, the preference is wireless automatic upload as designed for in car video, but a docking station solution would be considered depending on the speed of the upload and the recharging time for each BWC.

64. Can the City provide what the distance is from the server room to the download location(s)?

Due to data security, network design will not be disclosed at this time in the process.

65. Can the City describe what the bandwidth and speed availability is between the download locations and main location they would like to store data?

Currently the air cards come over Verizon 10 MBPS MPLS backbone. Wireless access points dedicated at the police facility is 1 GBPS, and at City yard is 150 MBPS.

66. Item 4.4 line item e of the RFP, it states: Support for up to 12 configurable triggers. Can the City please elaborate on what (12) items they mean?

Currently our in car video solution supports multiple “trigger solutions” that automatically begin recording of video and voice if certain things were to

occur. Our current triggers include driving speed at 85 MPH or greater for 3 seconds, deploying a patrol rifle, 2.7 G's of force on the vehicle from three axis accelerometer (can be configured for different levels of force), remote activation of a trigger on the microphone carried on the officer's uniform to begin a recording event if they are separated from their car and a recording is not currently in progress, and lastly "Code 2" position or greater utilizing the emergency lighting system on marked patrol units. This does not include manual activation to begin a recording event when the officer has direct access to the mobile data computer.

We are considering expanding the use of triggers to automatically start recording events, and are looking for the total number of triggering events which would identify the trigger source in the metadata for reference and recapture at a later time. 12 is not a "hard number" and we ask that you respond with the number of triggers you can support.

67. Section 3.1 Scope/General Provisions: How many of the 37 vehicles in the fleet WILL be equipped with a mobile recording system?

All marked vehicles will be equipped with a mobile recording system.

68. Section 4.1 General Requirements: Can Critical Reliability be expressed in MTBF? Other criteria?

There are many acceptable methods to calculate MTBF on hardware specifications. Please submit your recommendations based on the equipment you recommend in your RFP response. Downtime for any hardware failure during the warrant period must be three business days or less for repair and/or replacement.

69. What is the existing media system? Manufacturer? Model? API available?

The existing media solution is Data 911 operating "MobileVid" on the client side, and "VidNet" for the enterprise database management solution. The RFP does not specifically ask you to integrate or write an API for this legacy Data 911 solution. The City of Tustin would prefer an integrated solution which incorporates in car and body worn camera solutions into a single platform, but we reserve the right to "unbundle" the solution and choose two different vendors for each product need. However, we are asking that if integration between two separate platforms is possible, that each vendor incorporate in the development of any API to push media from one solution to a single database management solution.

70. Can you please define adequate security? FIPS 140-2? AES 256 Encryption? VPN Tunneling?

The minimum standard being considered is FIPS 140-2. Vendor is open to recommending encryption protocols.

71. Can you please provide expected specifications for performance?

Refer to answer under question #68.

72. Can you provide metrics for acceptable voice quality? Can this be expressed in a quantifiable measure such as SNR, dB noise, dropped calls, detectable jitter?

73. Can you provide voice and data transfer specifications? Can this be expressed in network congestion measures, dropped packets, transfer times, etc.?

74. Can you clarify the interface with the network system clock? Does this mean NTP? GPS clock? IEEE1588?

Refer to the stated specification in the RFP on page 13 under item # 7 audio quality. No metrics are available. We are looking to the vendor to recommend the appropriate solution.

75. Section 4.3 – Mobile Data Computer: ‘Stand alone or Integrated Technology’ - Does this mean that Linux, Android, IOS, Mac OSX and other systems are not used and do not need to be supported? Does this mean that only Windows based solutions are acceptable? What about embedded solutions where OS is not exposed?

Refer to the RFP page 8. Our OS is Windows 7 64 bit.

76. ‘Harsh Mobile Computing Environment’ - Does this mean MIL spec, IP6x rating? What is harsh environment?

Since we are considering multiple vendors and their responses to this RFP, each manufacturer will have their own test protocol to define ruggedized. Each vendor is requested, based on their knowledge of mobile public safety computing, to make what they feel is the appropriate hardware recommendations.

77. ‘Harsh Mobile Computing Environment’ - Can this be expressed in operating temp (-40 to 70C), humidity, and shock and vibration specifications?

See answer question # 76.

78. Should the body worn camera be on Verizon LTE? Can a sealed USB

attached Verizon LTE modem be substituted?

We do not anticipate utilizing an air card on a BWC.

79. Mobile Data Computer - Can an embedded system with a separate tablet for user interface be substituted for a single monolithic system?

No.

80. Mobile Data Computer - Are there specific applications that will be run on the MDC other than those provided by respondent?

Yes.

81. What version of Windows 7?

Windows 7 Enterprise 64 bit OS

82. Intel Core i5 specifications - Does number of compute cores matter?

Yes.

83. Is there any expected video performance such as H.264 encode/decode?

Refer to the RFP page 9 section 4.4.1b.

84. USB Ports – Should these be USB 2 or 3?

USB 3 is preferred.

85. Bluetooth Connectivity - Bluetooth 4? What services? Audio, HID, video, sensors?

All are currently being considered, but none deployed at this time.

86. Mounting Hardware – The total listed in this table is 29, but in introduction the number of 37. Can we assume that only 29 vehicles require MDC?

No - all 37 vehicles will require an installed MDC.

87. Mounting Hardware - In most cases is there space under the front seats? What about space on the firewall?

Mounting beneath the seat limits seat travel and will not be considered. We also would not want to mount equipment on the vehicle firewall.

88. Warranty and Maintenance - Will a spares inventory be ordered?

Yes, we plan on ordering spares to keep in inventory. The exact number has not yet been determined.

89. 4.4 In Care Mobile Audio Video System: Hardware Components - Does this mean that the system should record in all of these formats, or that any one of these formats is acceptable? Please explain.

90. High Definition Camera - Does this mean 720p, 1080p, UHD, 4K? Frame rate?

As stated in the RFP all stated means are acceptable. Refer to video resolution on page 12 section 2.

91. Configurable Triggers - Are there specifically defined triggers desired? Motion, LPR, speed, light bar status, gun lock, button, LMR active, remote trigger?

Currently our in car video solution supports multiple “trigger solutions” that automatically begin recording of video and voice if certain things were to occur. Our current triggers include driving speed at 85 MPH or greater for 3 seconds, deploying a patrol rifle, 2.7 G’s of force on the vehicle from three axis accelerometer (can be configured for different levels of force), remote activation of a trigger on the microphone carried on the officer’s uniform to begin a recording event if they are separated from their car and a recording is not in currently in progress, and lastly “Code 2” position or greater utilizing the emergency lighting system on marked patrol units. This does not include manual activation to begin a recording event when the officer has direct access to the mobile data computer.

We are considering expanding the use of triggers to automatically start recording events, and are looking for the total number of triggering events which would identify the trigger source in the metadata for reference and recapture at a later time. 12 is not a “hard number” and we ask that you respond with the number of triggers you can support.

92. Automated Wireless Capability - Wireless over LTE? Wireless over 802.11? 4.9GHz? How many simultaneous vehicles in yard at once? Any idea of how many events? How many hours of video per day? How long will vehicles be in yard? How many access points? What brand and model of access point? Are there other wireless devices in the yard? How many yards are there? Where are they? Is there a heat map

of RF? Will the wireless system be used for other purposes in the yard? Are there other locations like courts, schools, libraries, jails, bus stops where wireless might be desired?

Wireless is over 80-2.11. We utilize Verizon 4G LTE. Everything else is subject to change depending on department requirements and vendor selection.

93. Digital Evidence Management - What brand of DEM is used? Will APIs be available?

We are currently utilizing the DEM solution offered by our current vendor Data 911. We are looking for the vendor selected to make recommendations based on client need. Our current DEM supports only in car video and voice.

94. Chain of Custody - Does this mean CRC calculation on files prior to transfer in order to detect tampering? Full logging of transfers?

Yes.

95. GPS - What type of antennas are acceptable? Profile height? Location on vehicle? Are there other antennas and radios we need to be aware of? Frequencies used?

Garmin compatible device is acceptable. We currently utilize Antenna Plus externally mounted on the roofs of patrol units.

96. Triggers - What about integration with OBD II interface? Is this permitted? Desired?

We are not currently looking to collect OBD II information.

97. Triggers - What about trunk open? Light modulated? LMR record? Microphone in passenger/rear seat?

See answer # 91.

98. Section 4.5 In-Car Digital Evidence Management System: Is there an existing DEM used in evidence locker?

Yes.

99. Video Playback – Is redaction required?

Preferred but is not currently being utilized for in car camera voice and video.

100. Video Asset Verification - Should this be SHA-256?

Minimum requirement is SHA-256.

101. Does the department use LDAP or Active Directory?

Active directory.

102. In order to estimate storage requirements so that proper hardware can be provisioned, the retention policy should be known. We require resolution, frame rate, number of hours per day per camera of record, estimated number of events, retention of various event types, location of retention (on line or off line).

Our current storage needs for in car video is currently 14 TB. We have no experience in deploying BWC's at this point, so we have no estimate for that particular storage need. Retention is defaulted to one year. We are asking that you list out storage requirements based on recommended video quality. Current frame rate is 30.

103. What about importing and associating other files such as Word, Excel, scanned documents, etc? Should these also go into DEM? Do they need to flow into your Resource Management System? Is there a RMS? What is it? Will some video and data need to flow in real time to watch commanders and dispatchers? What is your CAD system? Is real time video to CAD desired?

Our current CAD provider is West Covina Service Group. While we seek a single solution for all DMS needs, we are currently not looking for live data feeds to the watch commander or dispatch.

104. Who has permissions to export? Will SHA-256 CRC follow the file being exported?

Authorized employees may export video based on current policy. SHA-256 CRC should follow.

105. Section 4.6 In-Car Video Mount Solution: Forward Facing Camera – Please provide specifications for camera. Resolution, frame rate? Light sensitivity? WDR? Illumination? Illumination range? LPR? Other analytics?

106. Rear Sear Camera - Please Specifications? Resolution, frame rate, WDR, light sensitivity, audio response?

107. Wireless Digital Microphone and Transmitter - Is this required to be separate from the body worn camera? Frequency? Range? Other features?

108. **DVR - Is network video recorder acceptable substitute? Is more storage desired?**
109. **4 in 1 Antenna - What type of antenna? Where is it to be mounted? How high off the profile of the car can it rise? Environmental specs? What bands? Is GPS integrated into antenna?**
110. **Mobile Management System Control - Are there any physical security requirements? Locking? Removable media type? UPS power? Must the recorder be capable of wireless transfer? Range? How many simultaneous cars? How many locations? Should the power system have its own battery? Will there be accessory power available? Will power remain on after ignition is off?**

For questions #105 - #110 we are looking to each vendor to make acceptable recommendations for the needed client solution.

111. **Section 4.7 Body Worn Video Camera Solution: Charging time – What is reasonable? 1 hour? 3 hours? 6 hours?**
112. **Video Recording Devices - What is the existing in-car system? How many vehicles will have existing system? For how long? Are there APIs for integration?**
113. **Asset Management System Integration - What is the Asset Management System? Are there APIs? What is the method of integration?**
114. **Video downloading - Can we assume that this means indexed by date and time? That the in-car system and the body worn camera maintain synchronized clock?**
115. **Video Upload - Can we assume that this means connection via USB 2.0?**
116. **Specification 7 – Audio Quality - Can this be expressed in SNR? What about immunity to small arms fire?**
117. **Specification 13 – Data Transfer - No mention was made to docking/transfer stations. How many? Where? How many cameras per docking station? Will cameras be left between shifts to charge and download? Will all transfers be in vehicle?**
118. **Specification 17 – Durability - Is there a definitive standard for drop test?**

Answer to questions #111 - #118: It appears reasonable recharge time based on current technology is 6 hours or less. Our current in car system is Data-911. We plan a complete refresh of all systems, and estimate to complete the update across the fleet will take up to six months. The selected vendor will provide the AMS and coordinate any needed integration. Video downloading should be indexed by both data and time, and preferred to be synchronized with the in car clock. Video uploading can be accomplished by any industry acceptable means. Regarding audio quality SNR please refer to the RFP page 13 section 7. For data transfer we look to the vendor to make the recommendation based upon agency evaluation. Lastly, we have not identified a drop test standard, but industry appears to support a concrete drop test between 6-10 feet.

119. 5.1 Proposal Content and Format: Please confirm that all the following sections, *excluding* #3 Index/Table of Contents, are subject to a 10 (TEN) page limitation:
- a. Transmittal/offer letter
 - b. Page Numbering
 - c. Index/Table of contents
 - d. Approach
 - e. Team Organization
 - f. Statement of Qualifications
 - g. Brief Resumes of Key Staff
 - h. Fee Proposal

Proposed vendors may submit up to a 10 page narrative describing their ability and qualifications in regards to the needs identified in the RFP. Attachments, which would include the proposed fee schedule, are allowed. We would not consider the index and table of contents part of the 10 page narrative for the RFP response.

120. 5.5 Fee Proposal: Should our proposed costs include a total of 100 body worn cameras and 37 in-car systems?

Yes - the proposal should include a quote for 37 in car video systems and up to 100 body worn cameras.

121. Who will be responsible for maintaining the system for storage? Is there an IT contact? Will all services be delivered by contractor?

That will depend on vendor response and proposals to this RFP. Vendors invited to participate in "Demo Days" will be provided with an IT contact.

122. Is there any thought given to back end analytics? Predictive

Policing? Big Data?

This will be determined based on proposals submitted and RFP response evaluation.

123. **Who outside of police will have access to data? How is permission granted? Who controls access? How is access accomplished? What about redaction and FOIA requests? Do you need to process this? Who will respond?**

Currently only police department employees and IT staff will have direct access to the storage database. However, as data sharing with partner organizations is considered, supporting such a solution would be considered.

124. **What about integration with other systems: RMS, CAD, public works, fire, planning? Will future expansion to include schools and other public facilities occur?**

Such discussions exceed the scope of the current RFP.

125. **What about Public Private Partnership with businesses providing video and data to police?**
126. **What about any existing fixed camera systems? What are they? Is there a desire to integrate them?**

Answer to #125 and #126 - We do see the value in being able to ultimately integrate video and other data sources to police database management systems, but such offerings exceed the current objectives of this RFP. There are no fixed camera systems other than those covering our police facility deployed in the City of Tustin.

127. **No mention was made of back end storage. Should this be on site? Off Site? Cloud? What kind of connectivity exists between sites? Does the city already have its own NAS system or long term retention system? What is it? Can it be used for storage?**

We are looking to the vendor for recommendations regarding the benefits of both on site (which we currently manage) and cloud storage as an acceptable solution. The City of Tustin looks to any proposed vendor for a recommended solution.