

INTRADEPARTMENTAL CORRESPONDENCE

July 8, 2016
1.17

TO: The Honorable Board of Police Commissioners

FROM: Chief of Police

SUBJECT: REQUEST FOR APPROVAL OF THE SIXTH AMENDMENT TO
CONTRACT NO. C-123332 WITH RAYTHEON COMPANY

RECOMMENDED ACTIONS

1. That the Board of Police Commissioners (Board) REVIEW and APPROVE the attached Sixth Amendment to Contract No. C-123332.
2. That the Board TRANSMIT the entire matter to the Mayor's Office for review and approval.
3. That the Board AUTHORIZE the Chief of Police to execute the Amendment, upon Mayoral approval.

BACKGROUND

On November 21, 2013, the Los Angeles Police Department (LAPD) entered into a five-year Agreement, Contract No. C-123332 with Raytheon Company (formerly Raytheon JPS Communications, Inc. [Raytheon]), to provide professional services to implement Phase II of the Digital In-Car Video System (DICVS). The contract covered the implementation of in-car video in Operations-Central Bureau (OCB). It included all necessary hardware, software, installation, configuration, testing, documentation and training, as well as a five-year warranty on all system components and the operation of the system as a whole. The total cost of the contract was \$7,935,722.41.

On May 27, 2014, the First Amendment to the Raytheon contract was executed for the purpose of making technical corrections on two of the attachments in the original Agreement. There were no changes to the Scope of Services of the total compensation allocated under the Agreement.

On February 23, 2015, the Second Amendment to the Raytheon contract was executed for the purpose of making technical corrections to two of the attachments in the First Amendment and to add an Exhibit. There were no changes to the Scope of Services, term, or the total compensation allocated under this Agreement.

On July 1, 2015, the Third Amendment to this contract was executed for the purpose of expanding the DICVS to the LAPD's West Bureau for Phase III of this project. The total compensation amount was increased for a total contract amount of \$15,873,905.41. To allow time for the five-year warranty on this system, the contract was also extended to November 20, 2022.

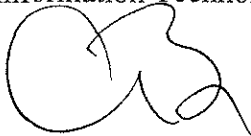
On December 22, 2015, the Fourth Amendment was executed, which provided for a network architecture study to be completed in OWB. The Payment and Deliverable Schedule was revised in this Amendment to reflect the change.

On May 12, 2016, the Fifth Amendment was executed for the purpose of revising the Statement of Work and Payment and Deliverable Schedule and memorializing a transition of the work from Raytheon JPS Communications Inc. to Raytheon Company.

DISCUSSION

Currently, the City of Los Angeles (City) and Raytheon wish to execute a Sixth Amendment to the Agreement to expand the DICVS to the LAPD's Valley Bureau. Per the City's Fiscal Year 2015-2016 Proposed Budget, Municipal Improvement Corporation of Los Angeles (MICLA) financing program funds in the amount of \$12,000,000.00 are included for Phase IV of the DICVS. This amount will pay the Contractor as compensation for the complete and satisfactory performance of the terms of this Agreement and is to be added to the current contract amount of \$15,873,905.41 for a total contract amount of \$27,873,905.41. Implementation will include installation of the DICVS in 477 vehicles in Operations-Valley Bureau.

If you have any questions, please contact Maggie Goodrich, Chief Information Officer, Information Technology Bureau, at (213) 486-0380.

A handwritten signature in black ink, appearing to read 'C. Beck', written over a circular stamp or mark.

CHARLIE BECK
Chief of Police

Attachment

**SIXTH AMENDMENT TO CITY CONTRACT NO. C-123332
BETWEEN
THE CITY OF LOS ANGELES
AND
RAYTHEON COMPANY
(formerly RAYTHEON JPS COMMUNICATIONS, INC.)**

This **SIXTH AMENDMENT** ("Sixth Amendment") to Los Angeles City Contract No. C-123332 is made and entered into by and between the City of Los Angeles, a municipal corporation (herein referred to as "City"), acting by and through its Police Department ("LAPD"), and Raytheon Company, a North Carolina corporation (herein referred to as "Contractor").

WHEREAS, the City and the Contractor have entered into Los Angeles City Contract No. C-123332 (the "Agreement") wherein Contractor agreed to provide professional services to implement a Digital In-Car Video System ("System"); and

WHEREAS, Section 10.1 of the Agreement provides for amendments to the Agreement; and

WHEREAS, the First Amendment provided for technical changes to be made to the Deliverable and Payment Schedule as well as the Bill of Materials (BOM); and

WHEREAS, the Second Amendment provided for technical changes to be made to the Deliverable and Payment Schedule as well as the Disaster Recovery BOM; and

WHEREAS, the Third Amendment extended the Agreement until November 20, 2022 and expanded the System to the Department's West Bureau, increasing the total contract ceiling by \$7,938,183.00 for a total of \$15,873,905.41; and

WHEREAS, the Fourth Amendment provided for technical changes to be made to the Deliverable and Payment Schedule; and

WHEREAS, the Fifth Amendment provided for technical changes to be made to the Deliverable and Payment Schedule, BOM, and memorialized the work responsibility transitioning from one division of Raytheon to another; and

WHEREAS, the City and the Contractor are desirous of amending the Agreement to expand the System to the LAPD's Valley Bureau; and

WHEREAS, this Sixth Amendment is necessary and proper to continue and/or complete certain activities authorized under the Agreement.

NOW, THEREFORE, the City and the Contractor hereby agree that the Agreement be amended as follows:

1. Section 5.1, Compensation and Method of Payment
 - A. City shall pay to Contractor as compensation for complete and satisfactory performance of the terms of this Agreement, an amount not to exceed Twelve Million Dollars (\$12,000,000.00), including state and local taxes. Of this amount, One Hundred Thousand Dollars (\$100,000.00) is designated as Contingency monies to be dispersed at the sole discretion of the LAPD for equipment and services related to this Agreement and pursuant to Section 5.1 (F) below. This amount is to be added to the current contract amount of Fifteen Million Eight Hundred Seventy-Three Thousand Nine Hundred Five Dollars and Forty-One Cents (\$15,873,905.41), for a total contract amount of Twenty-Seven Million Eight Hundred Seventy-Three Thousand Nine Hundred Five Dollars and Forty-One Cents (\$27,873,905.41).
 - E. Of the total amount of compensation included in Section 5.1 (A) above, the City will pay the Contractor for services to be performed, and tasks to be implemented as specified in this Agreement and the attached Statement of Work (Exhibit 1), Deliverable and Payment Schedule – DICVS (Exhibit 2), and Valley Bureau Price Breakdown (Exhibit 3), and satisfactorily performed in accordance with the terms of this Agreement, an amount not to exceed Eleven Million Nine Hundred Thousand Dollars (\$11,900,000.00) inclusive of taxes. The foregoing represents the total compensation to be paid to the Contractor for services to be performed, and tasks to be implemented as specified in this Agreement.
 - F. The difference between the amounts specified in Section 5.1 (A) and Section 5.1 (E) above, One Hundred Thousand Dollars (\$100,000.00), is designated as Contingency monies to be dispersed at the sole discretion of the City in accordance with Section 10, Amendments and Change Requests, of this Agreement. The City will not be liable for payment of contingency monies unless there is a written Change Request issued by the City.
2. Appendix B (Bill of Materials) of Attachment B (Statement of Work) of the Agreement is hereby amended in its entirety and restated as set forth in Exhibit 1 of this Sixth Amendment, which is attached hereto.
3. Attachment C of the Agreement, which is entitled "Deliverable and Payment Schedule – DICVS," is hereby amended in its entirety and restated as set forth in Exhibit 2 of this Sixth Amendment, which is attached hereto.
4. Except as herein amended or modified, all terms and conditions of the Agreement shall remain unchanged and in full force and effect.

5. This Sixth Amendment may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. This Sixth Amendment includes four (4) pages and three (3) Exhibits, which constitute the entire understanding and agreement of the parties.

[Signature Page Follows]

IN WITNESS THEREOF, the City and the Contractor have caused this Sixth Amendment to be executed by their respective duly authorized representatives.

THE CITY OF LOS ANGELES

RAYTHEON COMPANY

By: _____
CHARLIE BECK
Chief of Police

By: _____
MICHAEL J. AZURIN
Manager, Program Contracts

Date: _____

Date: _____

APPROVED AS TO FORM:

MICHAEL N. FEUER, City Attorney

(2nd Corporate Representative)

By: _____
DANIEL KREINBRING
Deputy City Attorney

By: _____
DONALD W. McFARLAND
Manager, Contracts

Date: _____

Date: _____

ATTEST:

HOLLY L. WOLCOTT, City Clerk

By: _____
Deputy City Clerk

Date: _____

City Business Tax Registration Certificate (BTRC) Number: 0002689659-0001-5

Internal Revenue Service Taxpayer Identification Number: 56-1621866

Agreement Number: C-123332-6

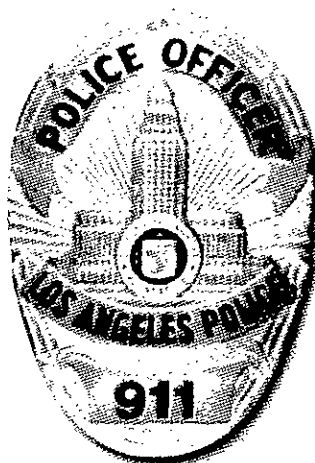
EXHIBIT 1

STATEMENT OF WORK

STATEMENT OF WORK

Los Angeles Police Department (LAPD)
Digital In-Car Video (DICV) System
(Valley Bureau Installation)

May 9, 2016
Contract: C-123332
Revision: FINAL



Raytheon Company
Intelligence, Information and Services
1801 Hughes Drive
M/S 625/U115
Fullerton, CA 92834

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Record of Change

Revision	Date	Author	Description	Pages
DRAFT	08/20/2015	Iggy Bragado / David Chavez	Final Draft Version	All
DRAFT	02/16/2016	David Chavez Iggy Bragado Steve Hess	Updated to correspond with updated Valley Proposal including options	All
DRAFT	04/21/2016	David Chavez Steve Hess	Updated as follows: 1) Modified assumptions in paragraph 1.4 starting with assumption 37 2) Updated Appendix B to account for the equipment reused from Central Bureau (six servers, six wireless controllers) 3) Changed Appendix D to indicate that only the South Bureau will require a configuration change to match West Bureau (Central completed during West phase) 4) Updated Schedule in Appendix E to included South Bureau wireless and shift schedule to start on 6/30/2016 5) Appendix J added for 10 GB Fujitsu network equipment procurement 6) Appendix K added for South Bureau wireless infrastructure upgrade	1) 5, 6 2) 43, 44, 45 3) 49 4) 51, 52, 53, 54 5) 75, 76 6) 77, 78
DRAFT	04/26/2016	David Chavez	Updated to include comments provided by Sgt. Liguori (Provided in separate attachment) 1) Add address for Northeast in Table 1, also added paragraph 4.2.4 as a placeholder 2) Assumptions 1, 3, 26, 44, 47 3) Paragraph 4.2.1 4) Paragraph 4.2.1.1 5) Paragraph 4.2.1.2 6) Paragraph 4.2.1.3 7) Paragraph 4.2.2 8) Paragraph 4.4.4 9) Paragraph 4.6 10) Paragraph 4.8.4 11) Paragraph 4.9.1 12) Paragraph 5.2.1, Table 3 13) Paragraph 5.2.3 14) Paragraph 5.2.6 15) Paragraph 5.2.15 16) Paragraph 5.2.18 17) Paragraph 6.1 18) Paragraph 6.2 Appendix A (requirement 169)	1) Pages 2 and 11 2) Pages 3, 4, 5, and 6 3) Page 8 4) Page 9 5) Pages 9 and 10 6) Page 10 7) Page 11 8) Page 13 9) Page 13 10) Page 16 11) Page 16 and 17 12) Page 21 13) Page 22 14) Page 23 15) Page 25 16) Page 26 17) Page 29 18) Page 29 19) Page 37 20)

Revision	Date	Author	Description	Pages
FINAL DRAFT	05/01/2016	David Chavez	<p>Updated to include changes per final price negotiation:</p> <ol style="list-style-type: none"> 1) Eliminated the South Bureau Upgrade to West Standard (aka "Option 3"). Making Appendix D "Reserved" and eliminating Assumptions 48, 50, 51, 52 with modifications to assumptions 49 and 53 2) Added assumption 56 for two LAPD provided servers and eliminated all servers from the BOM in Appendix B, Table 7 3) Added South Bureau Addresses to Table 1 4) Removed Paragraph 6.2 as it has become redundant with paragraph 1.4 5) Removed end user and admin training from Paragraph 4.7, Table 3, Paragraph 5.2.23, Paragraph 5.2.25, Paragraph 5.2.26 and Appendix B 6) Reduce the number of division reels at Valley from 5 to 2 in Appendix B 7) Eliminate spare trunk trays (36 to 0) and also reduce total trunk trays from 357 to 317 in Appendix B 8) Reduce spare vehicle kits from 48 to 25 in Appendix B 9) Eliminate touchscreen for 160 vehicles <p>Upgrade 502 (base plus spares) "EDGE Classic" units to "EDGE SD" units in Appendix B</p>	<ol style="list-style-type: none"> 1) Pages 2, 6, 50 and 51 2) Pages 6, 45, and 46 3) Page 2 4) Pages 29, 30 5) Pages 14, 21, 27, 28, 43, and 46 6) Page 46 7) Pages 42 and 43 8) Pages 42 and 43 9) Page 42 Page 42
FINAL DRAFT	05/09/2016	David Chavez	<ol style="list-style-type: none"> 1) Appendix A BOM remove 16 switches from Table 7 (back office) which were in error (all switches bid in Table 6) 2) Added back office support equipment to BOM 3) Removed "DRAFT" Watermark 	<ol style="list-style-type: none"> 1) Page 45 2) Page 80 3) All

1 INTRODUCTION

1.1 Executive Summary

This Statement of Work (SOW) defines the Digital In-Car Video System (DICVS) equipment, system design, system installation, and support services as described in the Proposal submitted by Raytheon IIS Inc. (Raytheon) originally in response to RFP No. 11-567-004 issued by the Los Angeles Police Department (LAPD) and is specific for the LAPD Valley Bureau.

Raytheon (the "Contractor") will provide LAPD a turnkey System per this SOW, which includes the equipment, system design, installation, on-site support, and training (the "Project"). All Tasks performed by Raytheon and the City of Los Angeles Police Department are defined within this document. As referred to in this SOW, the acronym DICVS, ICV, or System refers to the project digital audio, video recording devices, mode of transfer, and their related back-end storage solution.

The Contractor is responsible for products and services as set forth in this SOW, and commits to all entries provided herein.

The scope of the project is the procurement and implementation services for the deployment of a digital in-car video surveillance solution (called "Services") for the LAPD Valley Bureau. This Statement of Work addresses the effort the Raytheon Team will use to provide all hardware, software, configuration, installation designs, documentation, testing, and training required for successful implementation of the project. Raytheon's architecture provides Digital In-Car Video Recording with both wired and wireless upload data transfer. Included in the system is the in-car equipment, the back end video storage and management system, removable media, and wired and wireless upload (including LAN connection between the wireless to the back end system). All communication uses a secured network as described herein. The system provides the following:

- Three (3) different video upload methods for maximum flexibility and fail-safe operation.
 1. Wireless: The COBAN wireless upload method uses 802.11 a/g/n protocols for high speed upload
 2. Wired: The COBAN wired upload method uses 100 base-T or Gigabit Ethernet network for fast video transfer
 3. Removable media data transfer using solid-state drives. This method uploads videos via a high-speed USB 2.0 interface.
- A flexible and scalable video storage system, including customized implementations for optimal operation at City Hall East (CHE) and at outlying areas, including both primary and extended storage. Users with the necessary authorization can search for and review any video from any department workstation.
- An automated policy-based Video Management Solution.

Raytheon is solely responsible for completion of the work described herein and compliance with the terms hereof and coordinating any involvement of Raytheon subcontractors who may be engaged to assist Raytheon in accomplishing the work described herein.

1.2 Document Organization

This Statement of Work addresses key items necessary for successful project completion and sign off. The SOW includes the work, tasks, or services to be performed (Scope), the equipment that will be provided (Appendix B), the systems technical performance (Requirements), when it should be done (Schedule) and the documents and artifacts provided with the system (Deliverables). As such, the SOW has been organized as follows:

Chapter 1	Introduction
Chapter 2	Applicable Documents
Chapter 3	Requirements
Chapter 4	Scope

Chapter 5	Deliverables
Chapter 6	LAPD Responsibilities
Appendix A	System Requirements
Appendix B	Valley Bureau Bill of Material (BOM)
Appendix C	Upgraded EDGE System
Appendix D	Reserved
Appendix E	Valley Bureau Notional Schedule
Appendix F	Limited Warranty Statements
Appendix G	COBAN Software License Statement
Appendix H	Equipment Safety Statement
Appendix I	Required Valley Bureau Networking Information
Appendix J	10 GB Fujitsu Network Modules
Appendix K	South Bureau Wireless Infrastructure Upgrade
Appendix L	Acronyms

1.3 Locations

1.3.1 Valley / South Bureau

The LAPD Valley Bureau consists of eight (8) divisions while the South Bureau consists of four (4) divisions.

Table 1, Valley Bureau Locations

Division	Address
Valley Traffic	7870 Nollan Place Panorama City, CA 91402
Van Nuys	6240 Sylmar Avenue Van Nuys, CA 91401
West Valley	19020 Vanowen Street Reseda, CA 91335
North Hollywood	11640 Burbank Boulevard North Hollywood, CA 91601
Foothill	12760 Osborne Street Pacoima, CA 91331
Devonshire	10250 Etiwanda Avenue Northridge, CA 91325
Mission	11121 North Sepulveda Blvd Mission Hills, CA 91345
Topanga	21501 Schoenborn Street Canoga Park, CA 91304
Southwest	1546 W Martin Luther King Jr Blvd Los Angeles, CA 90062
Southeast	145 W 108 th St Los Angeles, CA 90061
77 th	7600 S Broadway Los Angeles, CA 90003
Harbor	2175 John S Gibson Blvd San Pedro, CA 90731
Recruit Training Center ⁽¹⁾	5651 W Manchester Blvd Los Angeles, CA 90045

Division	Address
Elysian Park Police Academy ⁽¹⁾	1880 N. Academy Drive, Los Angeles, CA 90012
Davis Training Facility ⁽¹⁾	12001 Blucher Avenue Granada Hills, CA 91344
LAPD Northeast Division ⁽²⁾	3353 N San Fernando Rd, Los Angeles, CA 90065

(1) Not part of base Valley Bureau effort; See paragraph 4.2.3

(2) Not part of base Valley Bureau effort; See paragraph 4.2.4

1.3.2 Valley Bureau Data Center (Disaster Recovery Only)

Table 2, Valley Bureau Data Center Location

Division	Address
Valley Data Center	23001 Roscoe Blvd, West Hills, CA 91304

1.4 Assumptions

1. Vehicle HW installation is based on the designs that were approved during the Central and West Bureau and it assumed that Valley vehicles will utilize the same design which may be slightly adjusted to accommodate the "EDGE SD" system. Other vehicle types requested by LAPD will be reviewed as requested. It is not intended that there will be pilot testing of the "EDGE SD" system beyond what is accomplished during the West phase.
2. The back office and wireless system design and equipment are the same as the West Bureau design.
3. The final division and system test procedures will be based on those of West Bureau but may be modified to logistically simplify the final division sell off test and provide a more operational test.
4. LAPD will provide the base network scheme as indicated in the Appendix I: Required Valley Bureau Networking Information
5. The Bill of Materials (BOM) was developed at a high fidelity site-survey (7/1/2015) and Raytheon will procure some items such as switches, racks, and trunk-trays immediately after contract award. Other BOM items will be procured immediately after the Site Survey / BOM review expected within the first 14 calendar days of the program.
6. LAPD will provide correct and up-to-date Blueprints/Bluelines, HVAC, Electrical and Civil drawings as needed by the project kick-off meeting (no later than division installation).
7. Blueprints and appropriate drawings will correctly show the location of all water pipes and cables. As a result, any drilling will not penetrate existing water line, electrical or communications cabling.
8. LAPD will permit Contractor, as needed, to run cables, drill through the wall penetrations, and run new power feeds. (Note: Parking lot or other excavation is not needed and not included in the proposal).
9. LAPD will permit Contractor, as needed, to run overhead data and power cables between wired upload stations, 802.11 Wireless Access Points and the precinct main building.
10. Raytheon assumes that provided blueprints are accurate and any damage incurred as a result of bad blueprints is not Raytheon's responsibility.
11. Any cost overruns or schedule delays due to incorrect information about existing infrastructure will be the responsibility of the LAPD.
12. LAPD will dedicate access to, and time from City and LAPD staff as required, to include appropriate access to LAPD – IT and networking engineers.
13. LAPD will approve all schedules and will not hold the Contractor responsible for any schedule changes due to actions of the LAPD.

14. The approval process will be a clearly defined, with a listing provided of the persons appointed to sign off any approvals.
15. The LAPD will assist and restrict the public and worker access to work areas as work is conducted, to prevent injury to these people.
16. The city will provide escorts when needed to perform work in secure areas.
17. There will be no Critical Design Review for the Valley phase as the design utilizes the infrastructure and design elements developed with the previous phases.
18. The LAPD and or city will provide a listing of any special requirements or directives such as special escort required at all times (e.g. Metro Detention Center) or different location for vehicle install for each aspect of the system deployment before work on that aspect is started.
19. LAPD will allow use of any existing cableways and conduits for this project, if they have ample room for the additional cables.
20. LAPD will permit access to the LAPD ITA backbone network during non-peak hours to conduct testing and upgrades.
21. There will be ample power to circuit breaker boxes and power feeder/distribution boxes feeding equipment rooms or locations outside for wired and wireless uploads. LAPD understands there may need to be new local power runs from these existing power distribution boxes to add new outlets for DICVS back end equipment.
22. The Contractor and LAPD will jointly determine any project delays that are the result of an act of God, and these delays may result in a new schedule with new milestones.
23. All vehicles for each phase must be available as needed to install the new video system. Any project schedule delays caused by not having the vehicles available when needed will be the responsibility of the LAPD.
24. All vehicles must be in proper condition to install the new video system.
25. It is Raytheon's assumption the LAPD current infrastructure has the available capacity to handle the transfer of the in-car-video data in all aspects other than the upload infrastructure that the Raytheon team provides.
26. Bandwidth and capacity estimates are considered for approximately 1500 vehicles, recording at Standard Definition, within the guidelines/specifications in Phase 1 (South Bureau) and Phase 2(Central Bureau) implementation and the trade-study completed during the West phase of the effort.
27. LAPD to provide network connectivity for two management ports and two data ports into the City Infrastructure and the bandwidth shall be no less than 1 Gbps.
28. Any delay (based on the IMS) in providing Customer Furnished Equipment (CFE) (i.e. network connection, access to facility space, etc.) shall give rise to an equitable adjustment in price and/or schedule.
29. Delays due to bad weather or other environmental factors will enable adjustment to the schedule.
30. The LAPD shall provide updates to the user databases as required to integrate the new Valley Bureau equipment.
31. LAPD to allow use of the available existing ITA conduits and /or dark fiber optic lines at all locations. It is expected to use existing conduits, chases and/or dark fiber at the following locations. Whenever possible Raytheon will use redundant network connections between the main switch and the auxiliary switches and will need ITA concurrence to use existing fiber optic or copper pairs to do this:
 - a. Devonshire Division: (1) MM fiber pair between MDF (Rm 150) and MTD facility
 - b. Foothill Division: (1) Conduit between 2nd floor Communication Room and MTD facility
 - c. Mission Division: (1) MM fiber pair between MDF (Rm 146) and MTD facility
 - d. North Hollywood Division: (1) MM fiber pair between MDF (Server Room) and MTD facility
 - e. Topanga Division: (1) MM fiber pair between MDF (Rm 1098e) and MTD facility, (1) MM fiber pair between MDF (Rm 1098e) and IDF (Rm 1003w)

- f. Van Nuys Division: (1) MM fiber pair between MDF (Rm 27) and MTD facility, (1) MM fiber pair between MDF (Rm 27) and IDF (Rm 118B)
 - g. West Valley Division: (1) MM fiber pair between MDF (Rm 146) and MTD facility, (1) existing elevator telecommunications conduit between MDF (Rm 146) to Elevator Electrical Room (Rm 21). The latter will require access to below-grade network vault on property roadway
 - h. Valley Traffic Division: (1) MM fiber pair between MDF (Comm Room) and IDF (RF Room)
32. New IDF network equipment will either occupy existing 2-post Telco racks or existing equipment rack enclosures, and in some locations new wall-mounted rack enclosures will be deployed at the following sites:
- a. Install new redundant network switches in existing racks or enclosures in the following locations:
 - i. Topanga Division: Room 1003 2-post Telco rack, and MTD 2-post Telco Rack
 - ii. Van Nuys Division: Room 118B 1-post Telco rack
 - b. Install new non-redundant network switches in existing racks or enclosures in the following locations:
 - i. Devonshire Division: MTD wall-mounted open rack
 - ii. Mission Division: MTD wall-mounted open rack
 - iii. North Hollywood Division: MTD wall-mounted open rack
 - iv. Valley Traffic Division: "RF Room" 2-post Telco rack
 - v. Van Nuys Division: MTD wall-mounted rack enclosure
 - vi. West Valley Division: MTD wall-mounted open rack
 - c. Install additional IDF Rack Enclosures to accommodate redundant network switches in the following locations:
 - i. Foothill Division: Parking structure (lower level)
 - ii. Mission Division: Parking structure (lower level)
 - iii. Van Nuys Division: Covered parking
 - iv. West Valley Division: Parking structure (Room 21, lower level)
33. As part of its Valley Bureau site-survey Raytheon identified that new MM fiber optic lines will be installed at the following locations:
- a. Foothill Division: Parking structure IDF (lower level), MTD IDF (note: due to capacity of existing network conduit, copper CAT6 cable may be subsumed)
 - b. Mission Division: Parking structure IDF (lower level)
 - c. Van Nuys Division: Covered parking IDF
 - d. West Valley Division: Parking structure (Room 21, lower level), via existing below-grade network vault
34. N/A.
35. LAPD shall provide ITD assistance for LAPD networking requirements such as LDAP configuration, Naming assignments, and Authentication.
36. The Raytheon team will not remove or relocate 3rd party product on the vehicle without prior written consent from LAPD.
37. Base: The schedule for the base program (6/30/2016 – 3/31/2017) proposed in the SOW assumes that LAPD will provide ITA support for network switch access and configuration assistance at the Valley Bureau divisions no later than 8/5/2016. ITA shall provision two (2) 1Gbps network data ports and two (2) network management ports at each of the Valley Bureau sites by 8/5/2016 and provide implementation assistance in the form of switch access and configuration review and assistance during the time period 8/5/2016 through 9/30/2016 and nominal as-needed support through the duration of the program.

38. Base: LAPD ITD shall configure the f5 Load Balancing network appliance for all Valley Bureau divisions no later than 9/29/2016.
39. Base: LAPD shall provide access for vehicle installation by 10/7/2016 and provide the installation team an average of 6 cars per day per division for installation.
40. Base: All vehicles must be installed during the main phase of the program including vehicles that are unavailable (because in the repair shop or otherwise) during division install. These vehicles should be made available at least thirty (30) days prior to program completion.
41. Base: LAPD shall provide vehicle type breakdown no later than sixty (60) days prior to vehicle install (this will ensure we have the correct mounts available).
42. Option 0: Additional vehicle kits can be ordered anytime during the course of installation of the Valley Bureau, however, if the kits are to be installed by the Raytheon IIS team at a location other than one of the pending Valley sites a minimum installation of twenty-four (24) installed units must be ordered.
43. Option 0: Additional installed vehicle kits must be ordered in sufficient time to complete installation prior to the completion of the Valley phase.
44. Option 1: LAPD shall provide the approximate number of systems that will need Havis In-Screen Integration no later than sixty (60) days prior to vehicle installation. (as this impacts Coban inventory for the LCD/Monitor). As an initial basis it is assumed that 20 shops per division require in-screen integration for a total of 160.
45. Option 2: The "EDGE SD" system proposed does not include a high definition camera and is intended for use in the SD mode of operation as to not increase the density/size of recorded videos.
46. Option 2: The "EDGE SD" system will undergo basic regression testing including completion of the agreed to vehicle test procedure in the field during the course of the completion of the West Bureau phase of the contract. No additional contract dollars are included in the Valley Bureau proposal for any debugging or system changes for the "EDGE SD" system and in the event that changes are needed, a change proposal may be required or reversion to classic EDGE system as currently deployed.
47. Option 2: The "EDGE SD" system will be tested with the SD camera only and LAPD should not assume that it is plug-and-play compatible with the HD camera at the system level. This is due to the higher resolution of HD videos and the additional strain that would be added to the infrastructure.
48. N/A.
49. The Warranty for the equipment taken from Central/South/CHE/Valley and reused at Valley is limited to the existing warranty on the equipment and shall not extend to the five (5) year minimum requirement per the existing contract.
50. N/A.
51. N/A.
52. N/A.
53. Option 4: A basic health check will be performed at each division prior to performing any updates or minor system repairs.
54. Option 4: Pricing includes upgrading MDF (Main Distribution Frame) network switches at each South Bureau Division. New IDF (Intermediate Distribution Frame) locations will be configured with new network switches as represented in the BOM (Bill of Materials). Raytheon IIS assumes no upgrade of networking equipment is required in existing IDF locations.
55. Option 4: Five year standard hardware warranty is included for replacement only of equipment delivered by Raytheon. Additional South Bureau maintenance beyond the five year equipment warranty is not offered.
56. LAPD shall provide two servers for use at Valley Bureau which will be used as the primary servers at designated Valley Bureau Locations.
57. After contract award, Raytheon IIS reserves the right to submit a Change Proposal for any cost or schedule impacts resulting from any delays or changes to the customer requirements (equipment, dates, etc.) listed above.

1.5 Exclusions

1. Contractor will not be responsible for any delays that incur due to actions by the city or LAPD's approval process.
2. Contractor is not responsible for modifications to existing system components or infrastructure not specifically called out in this SOW.
3. Contractor offer does not assume any cost for LAPD personnel on site as required while performing work. This will be the sole responsibility of the LAPD.
4. Contractor reserves the right to stop work at any given time if safety of people or equipment is in question.
5. Contractor is not responsible to repair or fix any existing problems (IP infrastructure, electrical, civil, structural or plumbing) that are not part of this Proposal.

2 APPLICABLE DOCUMENTS

The Contractor shall comply with the requirements set forth in the SOW. In the event of a conflict between this SOW and any other document, the precedence specified in section 13.3 of the base contract shall apply. All references to appendices are for appendices of this document.

3 REQUIREMENTS

The requirements are found in Appendix A of this document and are identical to the requirements implemented in the Central and West Bureau Design and installation.

The system requirements are managed and maintained in the LAPD ICV Requirements Traceability Matrix (RTM) listed in Appendix A of this SOW. Requirements have been organized into logical groups with appropriate headers. The RTM is a compilation of requirements found in the RFP Systems Features Checklist (RFP Appendix A) and the RFP Scope of Services (RFP Section 2). Raytheon is wholly responsible for providing a DICVS solution that meets these requirements.

4 SCOPE

This Raytheon SOW provides information related to the Valley Bureau as listed below:

Valley Bureau

- 8 Divisions with 477 cars

Raytheon will provide the following tasks and services as detailed below. Each task has a description, a list of deliverables, and completion criteria.

1. System Engineering
 - a. System "As Built" & Configuration Documentation
2. Division Infrastructure Installation
 - a. Wireless and Wired Data Transfer Installation
 - b. Back Office Server/Storage/Switch Implementation
3. Vehicle System Installation
 - a. Vehicle Installation / Acceptance
4. Division System Testing
5. Training Services
6. Project Management
 - a. Weekly Status Meeting
 - b. Program Management Review

- c. Project Scheduling
- d. Supply Chain Management
- e. Subcontract Management

7. Project Events

- a. Project Kickoff
- b. Site Survey and BOM Review
- c. Division Test Readiness Review
- d. System Test Readiness Review
- e. Final System Signoff Review

8. Final System Acceptance

9. Follow-on System Service

10. Warranty

Note that most of the activities listed above are singular in nature (only to be done once) however, items 2 through 5 are performed once for each division.

4.1 Completion Criteria

Completion Criteria for each individual task are set out in this SOW. Final acceptance criteria is established in the Final System Acceptance Testing and the Final Sign Off Review, and may be further defined by mutual agreement.

Raytheon shall have fulfilled its obligation under this Statement of Work when any of the following first occurs:

- Raytheon accomplishes the Raytheon tasks and services described in this section (4) and all requirements in the RTM have been completed, and the Final System Acceptance has been approved by LAPD.
- City of Los Angeles Police Department notifies Raytheon in writing, that further services are not required

4.2 System Engineering

System Engineering is an activity that is performed at the beginning of the project. The Valley Bureau implementation will be utilizing the same system architecture that has been implemented in the West Bureau;

In particular, the switch configurations will be based on the West standard and the updated features such as "LA City network connection redundancy", "Back-up Server for all Divisions at CHE", "Centralized Back-up wireless controller at CHE", "Upload Anywhere, seamless to end user", "Failover to Back-up server, seamless to end-user."

No further design activity is planned nor included for the Valley Bureau.

4.2.1 System Design

Description: Raytheon will work with a team of selected staff from the LAPD and Information Technology Agency (ITA), as appropriate; in all technical and operational issues of the installation integration, and test of the DICVS wireless network, hardware, and software. This scope is divided into the subtasks below.

Deliverables:

- DICVS Design/Configuration Document (CDRL 09) (Document will be the Valley Site Survey)
- DICVS System Test Plan / Procedure / Results (CDRL 11) (Based on West Bureau)
- DICVS Division Test Plan / Procedure / Results (CDRL 12) (Based on West Bureau)

Completion Criteria: This task is complete when the final versions of the aforementioned deliverables are approved by the LAPD.

4.2.1.1 Wired and Wireless Requirements and Design

Description: Raytheon will document the networking requirements for the Valley Bureau in the Design Document. The focus of this task is to document the assumptions, requirements, and design of the exterior wireless and hardwire infrastructure that will transport the digital video from the point of capture (in the car) to the server environment where it will be managed locally and then transferred to the City Hall East.

Assumptions regarding wireless solution:

1. Raytheon will utilize the unlicensed 802.11a/g/n spectrum to facilitate wireless uploads.
2. Wireless system performance may be degraded by other nearby users of the unlicensed 2.4 GHz and 5 GHz spectrum and by obstacles that block line-of-sight between the fixed antennas and antennas located in the vehicles.
3. The FCC requires that users in the 5.4 GHz spectrum incorporate Dynamic Frequency Selection (DFS) to ensure that we avoid 5.4 GHz channels containing radar by an Access Point. This could affect aggregate video upload throughput if DFS is activated during times of maximum simultaneous uploads at a given location.
4. Wireless access points will be mounted inside garages or outside buildings. Access points have been chosen that are resistant to the environment and will be placed in areas that minimize the likelihood of equipment tampering.
5. Outdoor antennas (not inside garages) extend to their mounting points via coaxial antenna cable. Equipment has been chosen with in-built lightning arrestor capability and thus an Earth ground is not required.
6. Raytheon will be responsible for deploying the conduit, Cat6e cable, electrical power from the point of common exit from the interior to exterior wall of all Valley Bureau locations. Raytheon will also be responsible for the ground connection. Raytheon will mount the wired connections to the exterior wall or other determined mounting location.
7. Raytheon will install the access points, antennas, antenna cables and lightning arresters and connect to the Cat5e cable.
8. Supplemental MTD Maintenance Garage and gas pump wireless access point coverage is not required except as indicted by the Site Survey, however, residual coverage from the parking structures is expected to be adequate but performance requirements for residual coverage is not guaranteed.

4.2.1.2 Wireless and Hardware LAN Site Survey

Note the site survey and RF Scan has already been completed for the Valley Bureau and the findings will be formally delivered as the Design Document (CDRL 09) presented at program Kick-off.

Description: The purpose of this activity is to review and document the exterior network requirements for the implementation and utilization of wireless and hardwire LAN technologies at eight (8) LAPD Division offices including supporting infrastructure at City Hall East. Raytheon is to develop a plan for the exterior site survey verification and system design activities at each of the eight (8) locations. During this activity, Raytheon will perform the following tasks relating to the outside facilities and structures at each of these eight (8) sites:

1. Obtain available building site documentation from LAPD
2. Assess wireless and hardwire LAN design objectives and goals and develop an understanding of:
 - a. Wireless and hardwire network strategy and requirements
 - b. Areas requiring wireless coverage
 - c. Areas requiring hardwire access and coverage

- d. Security requirements within the scope of the guidelines laid out in the RFP (including encryption and authentication requirements)
 - e. End-user application types and usage characteristics:
 - i. Wireless video transfer only
 - f. Equipment mounting and aesthetic considerations
 - g. IP addressing scheme
 - h. Wireless and hardwire network management strategy
 - i. Future growth requirements and network build out time frames
3. Assess building construction materials, floor layouts and floor contents (fixtures, furniture, etc.) along with any planned changes to current environment; Document findings.
 4. Perform RF site surveys at the eight (8) division offices to determine access point and antenna types, configurations and mounting locations necessary to provide required wireless services. Note Raytheon will not require LAPD assistance during the site walk through planned at program start. This walk through is only to revalidate the high fidelity survey that was already performed previously.
 5. Identify existing equipment installations and implications for proposed wireless network equipment (available space, interference, mounting requirements)
 6. Identify suitable locations for mounting of Ethernet reels for hardwire uploads
 7. Identify locations for mounting of Ethernet switches for connection to wired LAN in each division office
 8. Perform an RF scan of 2.4000 – 2.4835GHZ and 5.000 – 5.825GHZ RF ranges in the locations, which are designated to receive wireless coverage in order to document potential sources of interference.
 9. Document requirements for provisioning data and power to access points and hardwire Ethernet reels via power-over-Ethernet.
 10. Document requirements for provisioning 120VAC to climate controlled access point enclosures.
 11. Identify special and/or unusual environmental conditions (heat, ventilation, air conditioning, humidity, etc.) that may impact equipment performance and provide photographs of unusual situations relating to AP placement to aid in installation
 12. Verify fitness of structures for mounting equipment (ceiling, post, wall materials, etc.)
 13. Mark locations for mounting of access points and antennas
 14. Determine location of any roof or wall penetrations that will be required
 15. Provide itemized listings of cabling, structure modifications or enhancements at each of the sites to ensure that they meet the requirements for the Wireless and Hardwire LAN installation.
 16. Document survey results in the Design Document

4.2.1.3 Wireless and LAN Design

Description: The objective of this task is to develop the design detail required for implementation of wireless and LAN's in the eight (8) Valley Bureau LAPD division offices to support wireless and hardwire transfer of video data.

The major sub tasks addressed are:

1. Define system performance criteria based on system requirements delineated in Appendix A
2. Define access point and antenna types, quantities, configurations and locations required for the provisioning of wireless video transfer
3. Define switch configurations
4. Define Wireless LAN Controller configurations

5. Define Ethernet reel types, quantities, housing and locations required for the provisioning of hardwire video transfer
6. Develop equipment list
7. Develop documentation showing areas of wireless coverage
8. Develop IP addressing scheme
9. Develop pre-installation cabling and infrastructure site preparation requirements
10. Develop installation plan
11. Develop system test plan

IEEE 802.11b wireless mode will be disabled to avoid interference and degrading the wireless operation. Only IEEE 802.11a, IEEE 802.11g and IEEE 802.11n wireless modes shall be active.

4.2.2 System Configuration

Description: Raytheon shall load and configure all hardware and software used in its subsystems. Raytheon will provide a base configuration for the switches that interface directly with the City of Los Angeles network. System security will be established in the same manor that it is implemented at the West Bureau. It is also expected that the cities ITA group will participate in the final configuration and testing of these switches. As a base LAPD must provide the required IP Address Scheme and VLAN as indicated in "Appendix I: Required Valley Bureau Networking Information"

Software revision shall be the same for all like devices. Contractor will provide all site-specific software and/or configuration data files as needed to meet Contractor's requirements at each LAPD site to include at a minimum the following:

- Site-specific configuration parameters
- Detailed system configuration narratives
- Default parameters
- Actions
- Descriptors
- Device and component addresses and locations

Deliverables:

- DICVS System Configuration Manual
- Manufacturer Owner Manual (PDF versions provided on CDROM or DVD)

Completion Criteria: This task is complete when the system is fully configured, operational, and the final version of the aforementioned deliverable is approved.

4.2.3 Design/Installation of Training Centers (Not included in base Valley Bureau)

This paragraph is reserved for design/installation of DICV at the training centers indicated by Table 1. It is not part of the base Valley Bureau effort and will need requirements definition by LAPD, proposal by Raytheon, and a change order issued by LAPD prior to any work being performed.

4.2.4 Rework of LAPD Northeast Division

The Northeast Division of LAPD was commissioned for use in April of 2015 however since that time the new building has opened and LAPD will request that a change proposal is generated to get the Northeast site back operational. LAPD will need to define the scope of effort prior to a cost estimate being made.

4.3 N/A

4.4 Division Infrastructure Installation

Description: The Raytheon team will install, configure, and test the hardware and software necessary to complete wireless and wired data transfer and local storage at each division police station. This effort is divided into two task areas, the wireless and wired data transfer task, and the division local storage/back office task. Note that while these tasks are installed separately, they will be tested together as a Division.

Deliverables:

- DICVS Division Test Procedure / Results (per division) (CDRL 12)

Completion Criteria: This activity is complete at each division when the Division Infrastructure tests have passed and been approved.

4.4.1 Infrastructure Upgrade

The Raytheon team will retrofit LAPD facilities in order to prepare for the installation of Digital In-Car Video back office/local storage equipment, by providing Power, AC, and access to/from network connections as follows:

Power

- Two (2) twenty (20) amp circuits OR two (2) thirty (30) amp circuits
- One (1) twist-lock receptacle, i.e. L5-30P, per circuit at proposed equipment rack location
- May require installation of new circuit breaker panel
- Raytheon will provide rack location

Cable Run

Cable run between proposed equipment rack location and network switch, if these components reside in different rooms

4.4.2 Wireless and Wired Data Transfer Installation

Description: The Raytheon team will install, configure, and test the hardware and software necessary to complete wireless and wired data transfer at each division police station. Subtasks include:

- Run conduit for power and data
- Install wireless and wired hardware components
- Connect the DICVS to the LAPD local area network
- Install and configure software
- Test and optimize the system

4.4.3 Local Storage Installation

Description: The Raytheon team will install, configure, and test the hardware and software necessary to complete local storage at each division police station. Subtasks include:

- Install the rack of DICVS equipment in division server rooms
- Connect DICVS to the LAPD local area network
- Install and configure DICVS system software
- Test and optimize the system

Figure 1 shows the network connectivity at a typical division station. The Division DICVS then connects to the city's ITA backbone.

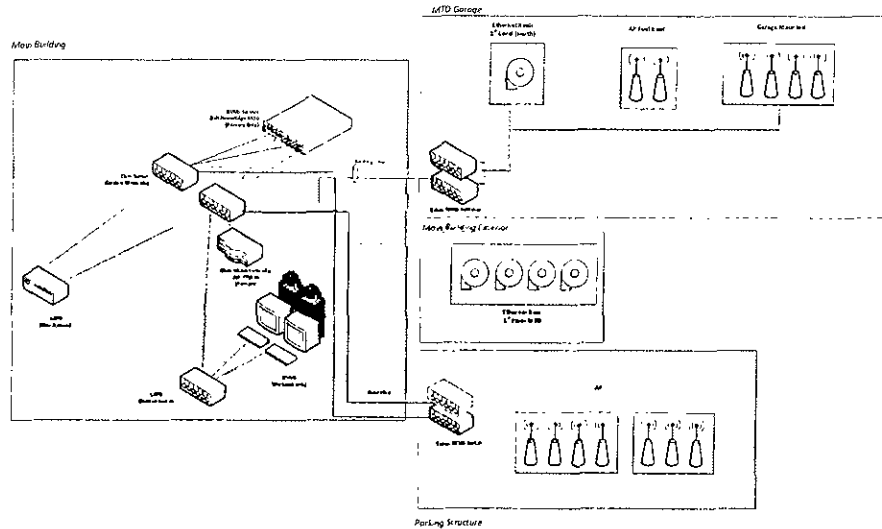


Figure 1, Typical Division Networking Diagram

4.4.4 Back Office Server Implementation

Description: The purpose of this activity is to implement, configure and provide documentation for the (DICVS) and to provide a "transfer of knowledge" between Raytheon and key LAPD technicians as this system is implemented, configured, and tested.

Deploy Cradle Upload Workstation

Raytheon will configure test a single Cradle Upload workstations at each Valley Bureau Division Office locations, which are provided by LAPD.

The major sub tasks are:

1. Verify proper operation of the Cradle Upload workstation by demonstrating the transfer of one vehicle's video data at each of the divisions.

4.5 Vehicle System Installation

Vehicles are installed in accordance with the installation manual and procedures that were approved during the Central Bureau installation.

Description: Raytheon will install DICVS into LAPD Division vehicles. Installations will take place at LAPD Area stations or as directed by LAPD. Subtasks include:

- Install, configure, and test DICVS in each of the individual division vehicles

To ensure successful installation, the LAPD will provide support, access, personnel, and facilities necessary to carry out the installation schedule, including on-site storage if available and if so requested by Contractor.

Deliverables:

- DICVS Vehicle Installation Signoffs (one per vehicle) (CDRL 13)

Completion Criteria: This task is completed for each division when 90% of the vehicles at a division have been installed and tested.

4.5.1 Test Vehicles

Test vehicles shall be installed in the early stages of the program prior to integration and will count towards the overall quantity of vehicles installed (i.e. not an increase in the number of vehicles installed). Five test vehicles will be configured. The configuration of the test vehicles will be based on the approved Central Bureau vehicle configuration.

4.6 System Testing

Description: Once the DICVS is deployed throughout the sites listed in this SOW and operational, LAPD will initiate final DICVS acceptance testing, with assistance from Raytheon, consistent with the mutually agreed to test plan, that is based upon the plan approved during the West Bureau phase of the program. Test plan changes will include redlines that were made during West Bureau testing as well as any mutually agreed to test modifications that simplify test logistics and may reflect a more operational type of test rather than a stress test. All testing will be performed by the Raytheon team and approved by the LAPD. Each billing milestone includes an interim acceptance test per Valley Bureau location.

1. Maintain the DICVS during the final acceptance testing.
2. Support LAPD throughout final system test activities, per the mutually agreed-to System Test Plan.
3. If a system failure occurs and is attributable to a DICVS component, modify the DICVS to correct the deficiency.

Deliverable:

- DICVS System Test Procedure / Results (CDRL 11)

Completion Criteria: When the successful System Test Results are reviewed and approved by the LAPD. The acceptance test period will automatically extend to correct all issues identified during the test.

4.6.1 Integration and Testing with Test Vehicles

The test vehicles indicated in 4.5.1 will be used along with existing division vehicles as needed during pre-integration, integration and test, dry-run testing and formal testing.

4.7 Training Services

- Vehicle Installation Training
 - Vehicle installation training will be conducted during vehicle installation in a 'job shadowing' approach. Formal classroom training is not provided. This training is sufficient to allow a technician to repair or replace the equipment without voiding the warranty.

Deliverable:

- DICVS End User Manual (CDRL 15)

4.8 Project Management

Raytheon will provide a full-time Program Manager to provide direction and control of Raytheon project personnel (and their third party contractors), and to establish a framework for project communications, reporting, procedural and contractual activities. Management tasks include defining, planning, directing, and controlling the effort to accomplish the program's objectives as defined in the contract and contained in this SOW. Raytheon's Program Manager shall be the primary Point of Contact for LAPD Program communications to Raytheon. The primary PM responsibilities include:

- Review the SOW and any associated documents with the LAPD Project Manager
- Maintain project communication through the LAPD Project Manager
- Establish documentation, configuration control and procedural standards for the development of this project

- Develop an overall Project Plan at the onset of this project for performance of this Statement of Work that meets the LAPD DICVS objectives
- Conduct project status meetings
- Prepare and submit weekly Status Reports
- Produce an Integrated Master Schedule to show all deliverables, milestone events and performance criteria called for in the contract and this SOW
- Conduct monthly Program Management Reviews
- Review and administer Project Change Control with the LAPD Project Manager

The following represent standard program management activities and are not tied to specific deliverables.

4.8.1 Weekly Status Meeting [CDRL 01]

Description: Raytheon will host a weekly status meeting to bring key stakeholders together for communication and coordination. The meeting will be telecom, with Raytheon Program Manager on site, held once per week.

Deliverables: The minutes will typically consist of the following, but are subject to change based on learned best practices:

- Weekly Status Meeting Agenda/Minutes (CDRL 01)

Completion Criteria: When the last weekly status meeting is held at the conclusion of the project.

4.8.2 Program Management Review [CDRL 02]

Description: Raytheon will provide a summary of program activity over the previous fiscal month. The PMR provides the opportunity to see the big picture and coordinate with key stakeholders. Systemic program issues are brought up and resolved. Near term plans are reviewed and decisions made.

Deliverables:

- Program Management Review Package/Minutes (CDRL 02)

Completion Criteria: When the last PMR is held at the conclusion of the project

4.8.3 Project Scheduling [CDRL 03]

Description: Raytheon has provided a notional detailed Integrated Master Schedule (IMS), located in Appendix E. The schedule is designed to meet LAPD objectives based on the RFP process flow, scope of work, and installation approach. Raytheon's proposed schedule identifies the work requirements in logical groups. The deployment approach structure is around a defined LAPD Valley Bureau, eight (8) Divisions and the cars assigned to those Divisions. This allows Raytheon to gain efficiencies and preserve operational readiness. The Parties may alter the order in which work on sites is performed in order to provide for a more efficient implementation.

The IMS will reflect the actual program start date and will be updated and maintained by Raytheon as needed. Schedule concerns are addressed immediately between the Raytheon PM and the LAPD Project Manager. Normal schedule reviews occur monthly at the PMR.

Deliverables:

- Integrated Master Schedule (CDRL 03)

Completion Criteria:

- The IMS is updated regularly. The final IMS will be delivered as part of the Final System Sign-off Review.

4.8.4 Chain Supply Management

Raytheon will perform Supply Chain Management activities to procure the necessary hardware, software, and consumables required for project completion. Subtasks include:

- Procure the quantity and types of digital in-car video and networking equipment identified and documented in Appendix B, System Equipment and validated during CDR
- Coordinate product ordering and shipping to the LAPD and provide LAPD adequate (minimum two days) notice of equipment needed from the warehouse (i.e. vehicle equipment needed for installs)
- Provide order notification and an estimated delivery date to the LAPD Project Manager
- Track all orders
- Submit invoices to the LAPD Project Manager
- Confirm receipt of equipment with the LAPD Project Manager

4.8.5 Subcontract Management

Raytheon will perform Subcontract Management activities to ensure program objectives are met. The current and primary subcontractor on the program is COBAN. Their work scope includes the bulk of System Engineering and DICVS installation activities. They are responsible for the majority of requirements and also procure or produce the majority of equipment. Raytheon's subcontract management duties include:

- Issuing a Supplier Statement of Work (SSOW)
- Communicating and resolving program issues
- Ensuring subcontract compliance
- Scheduling resources to meet LAPD needs

4.9 Project Events

The following events or standing meetings are used to manage the progress of the program.

4.9.1 Informal Project Kickoff

Description: The purpose of this task is to finalize the project team members, facilitate a common understanding of the project objectives, roles and responsibilities, and verify City of Los Angeles Police Department's readiness to implement these services.

Raytheon will conduct an informal project kick-off during the first weekly meeting. The kickoff meeting will focus on the base schedule review, statement of work review, and the overall project plan as well as the review of the Valley Bureau site survey (which will be delivered as CDRL 09).

Project Kickoff topics may include:

- Review the project objectives
 - Review of any assumptions
- Review the program schedule
 - Identify near term critical milestones
- Review the Statement of Work
 - Discussion/resolution of any requirements or scope clarification

Deliverables:

- Draft version of DICVS Design/Configuration Document (DRAFT CDRL 09)

Completion Criteria: This task is complete when the meeting is complete and the minutes have been distributed.

4.9.2 Site Survey / BOM Review [CDRL 05]

Description: The site survey and BOM review is held to ensure a common understanding of coverage areas and limitations as well as to review the bill of materials. Topics may include:

- Coverage Areas
- Spectrum Analysis
- Review of the DICVS Test Plan
- Review of Bill of Material (for quantity and specification)

Deliverables:

- DICVS Review Package/Minutes (CDRL 05)
-
-

Completion Criteria: This task is complete when the meeting is complete and the minutes have been distributed.

4.9.3 N/A

4.9.4 Division Test Readiness Review [CDRL 06]

Description: A Division TRR is held to ensure all elements of division testing are ready and formal division testing can commence. Division testing is intended to sign off on division infrastructure requirements – this includes the wireless system, LAN system, and back office (local storage) system. The Division TRR is held prior to testing of the first division installation. Division TRR topics include a review of the DICVS Division Test Procedure.

Deliverables:

- Division TRR Package/Minutes (CDRL 06)
- DICVS Division Test Plan / Procedure / Results (IV&V-04)
- Vehicle Sign-Off Sheets for each vehicle installed (CDRL 13)

Completion Criteria: This task is complete when the meeting is complete and the minutes have been distributed.

4.9.5 System Test Readiness Review [CDRL 07]

Description: A System TRR is held to ensure the entire DICVS system is ready in total. System testing is intended to sign off all remaining requirements. These are typically requirements that are tested at the higher level or between subsystems. The System TRR is held near the end of the program and marks the final testing to be performed on the DICVS system. System TRR topics include a review of the DICVS System Test Procedure.

Deliverables:

- DICVS System TRR Package/Minutes (CDRL 07)
- DICVS System Test Plan / Procedure / Results (CDRL 11)

Completion Criteria: This task is complete when the meeting is complete and the minutes have been distributed.

4.9.6 Final System Sign Off Review [CDRL 08]

Description: The purpose of this activity is to document the accomplishments of the project and to present the Final System Acceptance Test Results to the LAPD Project Manager.

- Review the deliverables of the project with the LAPD Project Manager
- Review the Final System Acceptance Test results

Deliverables:

- Final System Sign Off Review Package/Minutes (CDRL 08)
- Final version DICVS Design/Configuration Document (FINAL CDRL 09)
- Manufacturer User Manual (OM-03)

Completion Criteria: Raytheon will have met its responsibilities for this activity when Raytheon has conducted an on-site review meeting and delivered the Final Acceptance Document to the LAPD Project Manager.

4.10 Final System Acceptance

The LAPD will approve and sign the Final System Acceptance in accordance to this SOW after Raytheon meets the requirements for system completion, as stated below. The System's acceptance shall include the following:

- Deliverables are complete and adequately meet the City's needs as defined by this SOW
- Confirm the system tests accurately meet the requirements as stated in this SOW
- Raytheon provides a notice of System Completion for the DICVS, and certifies the following:
 - Raytheon certifies it has completed all work as included in this SOW, except for ongoing services such as Warranty, System Maintenance and Support services
 - All deliverables have been provided to the City and meet requirements in this SOW
 - All terms and conditions have been met
- The city responds to Raytheon System Completion notice within (15) business days of receipt with:
 - Final System Acceptance Notice
 - Final System Rejection Notice

If the City issues a Final System Acceptance Notice, it confirms receipt of all required tasks, deliverables and services, except for ongoing services such as Warranty, System Maintenance and Support services.

If the City issues a Final System Rejection Notice, the City must provide the specific reasons for rejection. The City of Los Angeles Police Department and Raytheon must meet within (10) business days after receipt of rejection for discussion. Raytheon will provide a detailed plan of actions required to resolve all of the reasons for rejection. If disagreement continues, differences will be resolved in accordance to the Disputes contractual section of this document.

The City has the right to utilize the system and / or all of the deliverables until the identified deficiencies are corrected.

4.11 Follow-on System Support

Description: The Raytheon team will provide supplemental system support:

- Six months of on-site technical support

- One year of 24/7 phone support
 - Four hour technical response time
 - Second business day problem resolution
 - Remote problem diagnosis and support
 - Remote service and troubleshooting if access is granted to support personnel.
 - RMA and warranty services
 - Technical troubleshooting/problem solving assistance:
 - Level one support (LAPD Help Desk – not included)
 - Level two support (Raytheon/COBAN subject matter expertise)
 - Level three support (OEM manufacturer assistance)
 - Use of an automated help ticket tracking system to follow all problems to closure

Note that the six months of on-site support and the one year of phone support are in addition to, and run concurrently with, the five year Warranty and Maintenance service listed below.

Deliverables: Customer service, system support

Completion Criteria: Follow-on system support begins after final system acceptance. There are no completion criteria other than the passage of time.

5 DELIVERABLES

5.1 Bill of Material

The Bill of Material (BOM) listed in Appendix B contains detailed information about DIVCS system components and quantities thereof for the Valley Bureau. The BOM specifies what physical entities are to be delivered as part of the DICVS system.

5.2 Contract Data Requirements List (CDRL)

The following deliverables will be delivered to the City of Los Angeles Police Department under this Statement of Work. See below for a description of guidance for each deliverable. All documents listed are 'Final' unless otherwise stated. All documents are in electronic format (no paper copies).

5.2.1 Acceptance of Deliverables

1. One (1) electronic copy of the Deliverable will be submitted to the City of Los Angeles Police Department Project Manager. It is the City of Los Angeles Police Department Project Manager's responsibility to make and distribute additional copies to any other reviewers.
2. The City of Los Angeles Police Department Project Manager agrees to inform the Raytheon Project Manager within fifteen (15) business days if City accepts the Deliverable or provide a documented list of issues, together with reasonable detail, if City believes Raytheon has not satisfied the criteria for the applicable Deliverable.
3. The Raytheon Project Manager will review the City's issues and implement those changes that Raytheon and City jointly deem necessary to meet the specifications for the applicable Deliverable, Deliverable Guidelines and provide the revised Deliverable to City's Project Manager, at which time the Deliverable is accepted. Any unresolved issues will be managed in accordance with Change Control Procedure between City of Los Angeles and Raytheon for Digital In-Car Video System.
4. If the Raytheon Project Manager does not receive notice or a list of issues within fifteen (15) business days, the Deliverable will be deemed accepted, and all obligations of Raytheon regarding such Deliverable will be deemed satisfied.
5. Status Reports are exempt from this procedure.

Table 3, Contract Data Requirements List (CDRL)

CDRL #	Ref.	Item Description	Freq.	Timing	Quantity
01	4.8.1, 5.2.2	Weekly Status Meeting	Weekly	TBD	1 per week
02	4.8.2, 5.2.3	Program Management Review	Monthly	2nd Week	1 per month
03	4.8.3, 5.2.4	Integrated Master Schedule	Monthly	2nd Week	1 per month
N/A	4.9.1, 5.2.5	Informal Program Kickoff	1	10 days ARO or prior	1
05	4.9.2, 5.2.6	Site Survey and BOM Review (May be combined with Informal Kick-off)	1	20 days ARO or prior	1
06	4.9.4, 5.2.8	Division Test Readiness Review	1	One day prior or day of division test	1
07	4.9.5, 5.2.9	System Test Readiness Review	1	One day prior or day of division test	1
08	4.9.6, 5.2.10	Final System Sign Off Review	1	TBD	1
09	5.2.11, 4.2.1, 4.9.1, 4.9.2, 4.9.6	DICVS Design/Configuration Document (Note that the draft delivery will consist solely of the final site survey and BOM)	1) Draft 2) As-Built	1) Site Survey / BOM Review 2) Final System Selloff	1
11	5.2.15, 4.2.1, 4.6, 4.9.2, 4.9.5	DICVS System Test Results	Final	System TRR	1
12	5.2.18, 4.2.1, 4.4, 4.9.2	DICVS Division Test Results	Final	Division TRR	1
13	5.2.22, 4.5, 4.9.2, 4.9.4	DICVS Vehicle Installation Signoff	Final	Division TRR	Per vehicle
14	5.2.27	Manufacturer User Manual	1	Final System Selloff	1 per

5.2.2 Weekly Status Meeting [CDRL 01]

Purpose: Raytheon will provide the agenda and minutes to the Weekly Status Meeting.

Content: The minutes will typically consist of the following, but are subject to change based on learned best practices:

- Problems, issues, and recommendations
- General Discussion
- New Business
- Activities Planned

Delivery: Raytheon will email the agenda immediately in advance of the meeting. The minutes will be emailed within 24 hours of the meeting.

5.2.3 Program Management Review [CDRL 02]

Purpose: Raytheon will provide a Program Management Review package (and associated minutes) as needed. The PMR is meant to document the state of the program and bring all stakeholders into alignment. The PMR presents an opportunity to discuss program issues and determine a path forward as well as address program risks and opportunities.

Content: The PMR package will typically consist of the following, but are subject to change based on learned best practices:

- Accomplishments
- Near-Term plans
- Program Issues
- Risks and Opportunities
- Schedule
- Subcontractor Status

Delivery: PMRs will be held during the second fiscal week (on a day that is mutually agreeable) allowing one week for collection and processing. Raytheon will email the PMR package within 24 hours of the meeting. The minutes will be emailed within two business days of the meeting.

5.2.4 Integrated Master Schedule [PM-03]

Purpose: Raytheon will provide an Integrated Master Schedule (IMS) to the LAPD Project Manager outlining the project tasks, timelines, milestones, dependencies, and critical paths. The IMS will be a key part of the PMR and will illustrate near-term needs. The IMS status will be collected by the PM based % complete of actual accomplishments.

Content:

- Project tasks
- Timelines
- Milestones
- Dependencies

Delivery:

- Included in the PMR package or upon request

5.2.5 Program Kickoff [CDRL 04]

Purpose: Raytheon will provide a Program Kickoff package (and associated minutes) within the first two weeks of the program to get the program team synchronized. The Program Kickoff allows all team members to get to know each other and become familiar with a common set of program objectives.

Content:

- Identification and introduction of Contractor and Subcontractor program management, engineering, and other key personnel with discussion of responsibilities
- Address overall organizational structure
- Discuss plans, procedures, and schedules
- Staffing approach and plan
- Sub-tier contract objectives and status
- Review status of all open issues and path to closure following the kickoff meeting.
- Discussion/resolution of any requirements or scope clarification

- Identification of a resolution path and schedule for any To-Be-Determined (TBD) requirements
- Identification of near term critical milestones and overall program success criteria
- Review of any assumptions
- Resolve how management will interact in future communications
- Discuss program management plan to ensure all reporting requirements are understood.

Delivery: The program kickoff will be within the first two weeks of the program. The intent is to have the baseline review prior to significant work beginning.

5.2.6 Site Survey / BOM Review [CDRL 05]

Purpose: Raytheon will provide a review package as soon as possible after program start. The site survey is used to lock down all implementation artifacts so installation may begin. The review is also used to synchronize key stakeholders on the technical details of the program. The Valley Bureau site survey and associated BOM will be the centerpiece of discussion. The test plan and the associated test procedures will be reused from the West Bureau implementation however may be modified to reduce test day logistics and reflect more of an operational test.

Content:

- Site Survey / BOM
 - Wireless and Wired drawings (one per Division)
 - LAN Network drawings (one per Division)
 - Local Storage drawings (one per Division)
- Bill of Material

Delivery: The Site Survey / BOM Review should be held as soon as possible, tentatively within 20 days of program start.

5.2.7 N/A

5.2.8 Division Test Readiness Review [CDRL 06]

Purpose: Raytheon will provide a Division TRR package (and associated minutes).

Content:

- DICVS Division Test Procedure (Final)
- Roles and responsibilities during testing
- Discussion of known problems

Delivery: The Division TRR package will be delivered two days prior to the event.

5.2.9 System Test Readiness Review [CDRL 07]

Purpose: Raytheon will provide a System TRR package (and associated minutes).

Content:

- DICVS System Test Procedure (Final)
- Roles and responsibilities during testing
- Discussion of known problems

Delivery: The System TRR package will be delivered two days prior to the event.

5.2.10 Final System Sign Off Review [CDRL 08]

Purpose: Raytheon will provide a Final System Sign Off Review (FSSR) package (and associated minutes). The FSSR brings together the culmination of all vehicle, division, and central storage test results. The FSSR also includes all As-built design material and user manuals. It is the final summation and closeout of the project.

Content:

- Test Review
 - DICVS Division Test Procedure results

- DICVS Central Storage Test Procedure results
- DICVS As-Built Design Document
 - Wireless and Wired drawings (one per Division)
 - LAN Network drawings (one per Division)
 - Local Storage drawings (one per Division)
- All user training material
 - DICVS Vehicle End User Training Document
 - DICVS Division End User Training Document
 - DICVS Division System Admin Training Document
- All user manuals
 - DICVS Vehicle System Admin Manual
 - DICVS Division End User Manual
 - DICVS Division System Admin Manual
 - All manufacturer manuals
- Project's accomplishments summary
- Project deliverables checklist
- LAPD Manager signature block

Delivery: The FSSR will be held towards the very end of the program and will be shown in the IMS.

5.2.11 DICVS Design / Configuration Document [CDRL 09]

Description: Raytheon will provide design drawings that include physical and logical network diagrams. The document will lock down the technical specifications, connectivity, and placement of DICVS equipment. The document will become final when the "as-built" and system configurations are added to the document.

Content:

- Network connectivity
- Block diagrams
- Data flow diagrams
- Integration planning
- IP Address
- Configuration settings/instructions
- Division drawings (one per division)
- Timing
- Parameters

Delivery:

- The draft document is presented at the program kick-off (CDRL 04)
- The final version of this document with all as-built and configuration information is presented and approved at Final System Sign Off Review (CDRL 08)

5.2.11.1 Digital Video System Infrastructure Design

The Digital Video System Infrastructure defines the components of the DICVS that support the management, transportation, and storage of video data, from in-vehicle to the central storage. The design will interface seamlessly with the current DICVS infrastructure (CHE, Central Bureau, South Bureau), augmenting its current capabilities and capacity.

This design contains:

- Description and function of each DICVS component

- Video data path between various components, describing the data upload, storage and retrieval processes
- Interfaces between components at each location, including in-vehicle, back-end management server, and storage server
- Software interfaces and requirements
- End-user access requirements at each location
- Integration approach with current DICVS infrastructure
- Storage server requirements
 - Primary storage via hard disk array
 - Extended storage via LTO-5 tape drive
 - Storage capacity requirements, current and projected
 - Distributed storage design, accessibility from any precinct
- Data transport requirements
- Network infrastructure and respective requirements to support data upload, including wired, wireless, and removable media
- Inter-Division transfer
- Video streaming requirements
- Back-end management server requirements
- Define the underlying assumptions that influence the design

5.2.12 NA

5.2.13 NA

5.2.14 NA

5.2.15 DICVS System Test Plan / Procedure / Results [CDRL 11]

Purpose:

Raytheon will provide the LAPD Project Manager with a set of documents including the System Test Plan, Test Acceptance Data Sheets and Test Acceptance Report for the in-car and back office solution. The system test plan will be based on the test plan agreed to during the West phase however some parts of the test plan such as network management (i.e. SNMP based) may be moved to the Division test plan with the goal of eliminating the need for a system test plan.

Content:

The Test Plan will consist of the following, as appropriate:

- Prerequisites for the test
- Describe and record the set-up instructions
- Document testing instructions
- Document Test results recording methodology

Delivery:

Raytheon will deliver one (1) hard copy of the Test Plan document, the Test Acceptance Report and one set of the Inspection/Acceptance Data sheets, in reproducible format, and one (1) soft copy of the Test Plan document and the Test Acceptance Report in a mutually agreed to medium to the LAPD Project Manager.

Purpose:

The System Test Procedure is an end-to-end test designed to ensure functionality of the system from initial data capture through to final system storage and retrieval. It will test the entire set of DICVS components from vehicle, through the back office, and onto centralized system storage at CHE.

Content:

- Date and time
- Equipment serial numbers
- Testers with sign off area
- Tests performed (not all inclusive)
 - End-to-end network transfer for all substations
 - AutoDVD operations

Delivery:

The test results will be reviewed and approved at the System TRR.

Purpose:

Provide an electronic copy of the results of the DICVS Central Storage Test Procedure. The pen and ink version will be scanned in and stored digitally.

Content:

- Pen and ink population of the System Test Procedure signed off by the testers, LAPD officer, and/or Raytheon representative (if applicable).

Delivery:

- The final version along with the contractor test results is provided at the end of Valley Bureau testing at the System Test Readiness Review (CDRL 08)

5.2.16 NA

5.2.17 NA

5.2.18 DICVS Division Test Plan / Procedure / Results [CDRL 12]

Purpose:

Provide a battery of tests that verify the functionality and operational ability of the components at the Division. This includes the wired/wireless data transfer, the Local Area Network, and the onsite local storage. Testing includes performance testing to ensure capacity meets specifications. The division test procedure will be based on the approved test procedure from the West Bureau however may be modified to reduce test day logistics, be more operational in nature, and may incorporate the system level tests such as network management (i.e. SNMP) to eliminate the need for the System Test.

Content:

- Date, time, location,
- Equipment serial numbers
- Tester names with sign off area
- Tests performed (not all inclusive)
 - Wired upload transfer speed
 - Wireless upload transfer speed
 - Cradle upload
 - DVMS functionality

- Filtering
- Playback
- Authentication

Delivery:

One division test procedure will be used for all divisions.

Purpose:

Provide an electronic copy of the results of the DICVS Division Test Procedure that is performed at each division.

Content:

- Pen and ink population of the DICVS Division Test Procedure (one per division); this will include the sign off by the vehicle installer/tester and an LAPD officer or Raytheon representative (if applicable).

Delivery (Per Division):

- The final version along with the contractor test results is provided at each of the respective Division Test Readiness Review (CDRL 06)

5.2.19 NA

5.2.20 NA

5.2.21 NA

5.2.22 DICVS Vehicle Installation Sign Off Results [CDRL 13]

Purpose:

Provide an electronic copy of the results of the DICVS Vehicle Sign Off sheet that is performed on each division vehicle.

Content:

- Pen and ink population of the DICVS Vehicle Sign Off Sheet (one per vehicle); this will include the sign off by the vehicle installer/tester and an LAPD officer or Raytheon representative (if applicable).

Delivery:

One per vehicle, supplied at the end of division testing. (CDRL 13/ per vehicle)

5.2.23 N/A

5.2.24 NA

5.2.25 N/A

5.2.26 N/A

5.2.27 Manufacturer User Manual [CDRL 17]

Purpose:

Organic softcopy manuals supplied by OEM manufacturers will be provided to the LAPD.

Content:

- OEM manuals

Delivery:

OEM user manuals will be provided at the Final System Sign Off Review. (CDRL 17)

6 CITY OF LOS ANGELES POLICE DEPARTMENT RESPONSIBILITIES

The successful completion of the proposed effort depends on the full commitment and participation of City of Los Angeles Police Department management and personnel. The responsibilities listed in this section are in addition to the responsibilities specified in the Agreement, and are provided at no charge to Raytheon. Raytheon's performance is dependent upon the following responsibilities fulfillment by LAPD as scheduled in the project plan. Delays in performance of these responsibilities, may result in additional cost and/or delay of the completion of the project, and will be handled in accordance with the Project Change Control Procedure.

6.1 Los Angeles Police Department Project Manager

Prior to the start of this Statement of Work, LAPD will designate a person, called the LAPD Project Manager, to whom Raytheon communications are addressed and who has the authority to act for LAPD in all aspects of the contract.

The LAPD Project Manager's responsibilities include:

1. Serve as the interface between Raytheon and all LAPD departments, organizations and sites participating in this project.
2. With the Raytheon Project Manager, develop the project plan prior to implementation.
3. With the Raytheon Project Manager, administer Project Change Control.
4. Attend the project kick-off/high level planning session.
5. Attend project status meetings.
6. Obtain and provide information, data, decisions and approvals, within five (5) working days of Raytheon's written request, unless both Raytheon and LAPD agree to an extended response time.
7. Help resolve project issues and escalate issues within the City of Los Angeles Police Department organization, as necessary.
8. Work with Raytheon to schedule the on-site survey at LAPD locations.
9. With the Raytheon Project Manager, coordinate activities for Final System Acceptance.
10. Attend the final project meeting to review the accomplishments and deliverables.

6.2 N/A

Appendix A: System Requirements

Table 4. System Requirements

RTM Item #	Requirements Traceability Matrix (RTM)
Vehicle Installation	
1	All vehicle components of the System shall be installed in such a way that it will not pose a hazard to passengers in the event of a vehicle collision.
2	The recording device shall be mounted on a Havis-Shield pull-out equipment tray of the appropriate model for the year and make of the vehicle.
3	
4	The recording device shall be physically mounted to the vehicle such that it can be removed only with the use of tools.
5	The System shall have a forward-facing color camera that captures events occurring in front of the vehicle.
6	The forward-facing color camera shall be mounted at the top of the windshield or on the vehicle ceiling.
7	The position and direction of the forward-facing color camera shall have the option of being secured such that it can only be changed by maintenance personnel.
8	The System shall have a rear-seat infrared wide-angle camera that captures events occurring in the backseat of the vehicle.
9	All cameras shall operate on a filtered power source that is regulated and short-circuit protected.
10	All cameras shall be capable of withstanding temperatures from -20° to 165° F under direct sunlight.
<i>The operation of the System shall not interfere with the following external elements:</i>	
11	· High-powered television stations
12	· Radio transmission
13	· Vehicle alternator
14	· Vehicle ignition
15	· Vehicle electrical systems
16	· Vehicle heating, air conditioning, and fans
17	· Emergency lights
18	· Radios
19	· Sirens
20	· Mobile Data Computer (MDC)
21	· Speed measurement devices
22	· High-voltage power lines
23	· Light sources
24	· Microwave transmissions
25	· Infrared cameras
26	· License Plate Recognition System
27	· Global Position System (GPS)
28	· Biometrics System
29	· Pursuit Management System

RTM Item #	
	Requirements Traceability Matrix (RTM)
30	Geographical Information System
31	The System shall be fully operational while subject to interference from the same elements.
32	The System shall have built-in mechanisms to prevent damage to the System resulting from irregularities in the power supply, such as a reverse in polarity or electrical transients.
33	The system configuration and settings shall be maintained in the event of a sudden power loss.
34	All recorded video shall be retained in the event of a sudden power loss during a recording session.
35	All recorded video shall be retained in the event of a sudden power loss during data transmission.
36	The System shall use a single time source for its time clock.
37	The System components that come into contact with human skin shall not reach temperatures capable of causing a burn injury.
38	The System components shall be installed outside of the vehicle air bag deployment zone.
39	The System shall be capable functioning for a minimum of two (2) hours when the vehicle ignition is off, with a healthy car battery.
40	All software and firmware updates for the System shall be performable via wireless through a centralized revision manager.
	Vehicle Audio/Video Processor
41	The System shall operate independently of the LAPD Mobile Data Computer (MDC).
42	The recording media shall be a solid state drive (SSD) with a minimum capacity of 32 GB.
43	The System shall be operational within the temperature range of -20° and 165° F.
44	The System shall support video feeds from a minimum of three (3) sources.
45	The System shall allow the System Administrator to configure the video pre-recording and post-recording time.
46	The System shall allow the System Administrator to specify that the audio not be recorded during the pre and post recording period.
47	The System shall allow the user the option to retain or discard the pre-recorded buffered video.
48	The System shall be capable of applying to the recorded data a location stamp received from the GPS module.
49	The System shall support wireless 802.11n.
50	The System shall allow for at least two (2) users to be logged into the in-vehicle solution simultaneously.
51	The System shall support the simultaneous recording of two video feeds minimum.
52	The System shall not allow the user to erase or record over previously recorded video, with exception to the pre-recorded buffered video.
53	The System shall use a digital video signature that has been standardized by the American Bar Association (ABA) [Digital Signature Guidelines, Information Security Committee, Electronic Commerce & Infrastructure Technology Division, of the ABA. 1996]. Refer to the minimum standards for Digital Video Systems set forth by the International Association of Chiefs of Police (IACP).
54	The System shall provide an indication to the user when the removable media is inserted or removed.
55	The System shall perform a power-up self-test when power is supplied to the device.
56	The System shall provide an indication to the user when the power-up self-test fails.
57	The System shall be capable of monitoring its operational status.

RTM Item #	Requirements Traceability Matrix (RTM)
58	The System shall provide an immediate audible and visual notification to the user if any component of the system is not operational.
59	The System shall collect date and time stamps of when the storage media is inserted or removed.
60	The System shall indicate the amount of space remaining on the storage media.
61	The System shall provide an audible and visual indication to the user when the storage media has reach 90% of its capacity.
62	The removable storage media shall display a unique identification number on its exterior casing.
63	The System shall be capable of uninterruptible recording for a minimum of thirty (30) hours at 4CIF or better with a minimum frame rate of thirty (30) frames per second.
64	The System shall support the H.264/MPEG-4 video codec.
65	The System shall support the MPEG-2 video codec.
66	All programmable parameters of the System shall be stored on non-volatile memory
67	The System shall have the option to delay the recording that is triggered by the light bar sensor.
68	The duration of the delay shall be configurable by the System Administrator.
69	The System shall have a minimum of two (2) USB 2.0 ports.
70	The System shall have a minimum of two (2) Ethernet ports.
71	The System shall log all system activities via metadata.
<i>The metadata for each video file shall include the following information:</i>	
72	· Date and time per time source
73	· Coordinates
74	· Bookmarks
75	· User identification
76	· Emergency light status
77	· Siren status
78	· Vehicle braking status
79	· Microphone activation/deactivation status
Software & Graphic User Interface (GUI)	
<i>The System software shall have the following user functions:</i>	
80	· Log on/off
81	· Power on/off
82	· Video play
83	· Video record start/stop
84	· Video fast-forward
85	· Video rewind
86	· Video stop
87	· Video pause
88	· Video snap shot

RTM Item #	Requirements Traceability Matrix (RTM)
89	· Video volume up/down
90	· Force upload
91	· Display dim, on/off
92	· Video zoom in/out
93	· Video bookmark
94	· Run systems diagnostics test
<i>The software GUI shall provide an indication on the display for the follow:</i>	
95	· Camera audio recording on/off
96	· Camera video recording on/off
97	· Microphone audio recording on/off
98	· Storage media low capacity warning, below 10% capacity remaining
99	· Data upload in progress
100	· Data upload complete
101	The display of the recording video shall measure at least 3.75" by 3".
102	The display of the recording video shall be in color.
103	The display shall show the live video feed even when the feed is not being recorded.
104	The recorded video shall show the current date and time on one corner of the video.
105	The date and time stamp shall be displayed in a manner not to interfere with the activity of the video.
106	The system shall be able to provide live audio output from the microphone transmitter.
107	The system shall be able to provide audio output for the recorded video playback.
108	The System volume control shall allow the user to increase or decrease the audio level.
109	The System volume control shall allow the user to mute or unmute the audio on playback.
110	The System volume control shall be accessible by the user during audio or video playback.
111	The System shall allow the user to control the brightness of the display.
112	The System shall allow the user to turn off the display.
113	The video snapshots shall be stored in JPEG or Bitmap format.
114	The video snapshots shall retain 4CIF resolution.
115	The System shall allow the user to categorize the recorded media in terms of event-types.
116	The System shall allow the System Administrator to customize the types of events for which the user can tag to recorded media.
117	The System shall have a single button that sets the display brightness to day mode or night mode.
118	The System shall be fully operational by a user wearing gloves.
119	The controls of the System shall be installed within the range of the user, defined by the guidelines set forth by the Society of Automotive Engineers for the placement of automotive controls.
120	The display shall only show live video feed for video that is recordable or when the vehicle is in motion.
Front Camera	

RTM Item #	
Requirements Traceability Matrix (RTM)	
121	The System shall provide an illuminated record indicator visible to persons outside of the vehicle when the System is actively recording.
122	The camera shall have automatic iris and white balance features.
123	The camera shall automatically engage/disengage night mode without user intervention.
124	The camera shall have a backlight compensation setting.
125	The video resolution shall be at minimum 704 x 480 pixels.
126	The camera field of view shall be at minimum 60°.
127	The camera shall have at minimum 18x optical zoom.
128	The camera shall have at minimum 0.7 LUX for color and 0.1 for LUX black and white.
129	The resolution and clarity of a video still-frame shall allow the user to identify license plate numbers, characters, and state information under daylight conditions from a distance of up to 20 feet.
130	The motion resolution of the recorded video shall allow the user to discern fluid motion at a playback speed of 30 frames per second.
Rear Camera	
131	The rear facing camera shall have a low light capability of 0 LUX in infrared black and white and minimum of 1 for LUX in color.
132	The rear facing camera shall have a hardened enclosure.
133	The System shall have a separate microphone for recording the audio from the rear seat.
Microphone Transmitter	
134	The System shall have at minimum two wireless transmitters per vehicle.
135	The wireless transmitters shall have a minimum range of 1,000 feet in line of sight conditions.
136	The wireless transmitters shall use internal antennas.
137	The wireless transmitters shall contain an internal, redundant microphone.
138	The wireless transmitters shall include a lavalier microphone.
139	The function buttons on the wireless transmitter shall be programmable.
140	The wireless transmitters shall allow the user to mute/unmute the audio recording.
141	The wireless transmitters shall operate on frequency bands per FCC regulations.
142	The wireless transmitters shall automatically scan for and use the most interference-free frequency.
143	The wireless transmitters shall use digital transmission.
144	The wireless transmitters shall synchronize with the System.
145	The wireless transmitters shall have a built-in rechargeable battery with forty-eight (48) hours minimum standby capacity and ten (10) hours minimum talk capacity.
146	Each area station where the System is installed shall have charging devices for the wireless transmitters.
147	The wireless transmitters shall not pose risk or injury to the user following manufacturer recommended use.
148	The wireless transmitters shall meet the Underwriters Laboratories standards for safety.
149	The clips or retention devices for the wireless transmitter shall be compatible with LAPD approved attire.
150	There shall be two sync points per vehicle
Audio	
151	The System shall support a minimum of three (3) independent audio recording tracks.

RTM Item #	
Requirements Traceability Matrix (RTM)	
152	The System shall store the audio channels on independent tracks without the need for toggling or interference.
153	The audio quality shall have a minimum signal-to-noise ratio of 46 dB.
154	The System shall have a microphone to capture backseat audio.
155	The microphone shall be inaccessible by persons in the backseat.
Record Triggers	
<i>The audio and video recording shall be activated by the following triggers:</i>	
156	· User presses the 'record' button on the GUI
157	· Activation of emergency lights and/or sirens
158	· User presses the 'record' button on the wireless microphone transmitter
159	· Vehicle air bag is deployed or crash sensor activation
160	The System shall activate the recording resulting from a trigger regardless of whether or not a user is logged into the System.
161	The System shall have the capability to prompt the user for log in credentials after the completion of the triggered recording.
162	The System shall allow the System Administrator to assign a triggered recorded video to a specific user.
Data Transfer from Vehicle	
163	The System shall provide network security for all modes of data transfer.
164	The System shall collect and associate with each transferred media the date, time, serial number of the assigned officers, and the vehicle identification information.
165	The System shall provide the following modes of data transfer:
<i>Removable Media:</i>	
166	The removable media shall be physically secured with a locking mechanism.
<i>Wireless Transfer:</i>	
167	The System shall support the simultaneous upload from 15 vehicles at each area station.
168	The System shall identify on the display the primary location and server to which the vehicle is assigned upon user log in.
169	The System shall prompt the logged in user on whether or not to initiate data upload in the event that the vehicle is within range of an area station to which the vehicle is not assigned. (If the vehicle is not assigned to the station it will still upload to the local division server and this will be seamless to the user)
170	The wireless transfer rate shall be at minimum one (1) second for every seven (7) seconds of recorded video/audio.
171	The System shall include a mechanism that automatically connects and authenticates vehicles in wireless range of the assigned area station for wireless transfer.
<i>Hardwire Transfer:</i>	
172	The System shall have cabling for hardwire transfer for up to five vehicles simultaneously at each area station.
173	The System shall automatically authenticate vehicles that are connected for hardwire transfer.
Back Office: Access	
174	The System shall be configurable by only the System Administrator and authorized personnel.
175	The System shall allow authorized personnel to review video files from workstations connected to the network.

RTM Item #	Requirements Traceability Matrix (RTM)
176	The System shall provide role-based security and access control to the System.
177	The role definitions shall be configurable by the System Administrator.
178	The System shall be able to receive and apply modifications to role definitions from LAPD's Common Services Access Control System updated on a daily basis.
179	The System shall allow user access from each workstation through the LAN network. Web-based access preferred.
180	The System shall provide authentication control via LDAP integration, specifically eDirectory.
181	The System shall have the ability to authenticate against more than one LDAP source.
182	The System shall allow particular user roles to disable the automatic deletion of specific files past the retention period.
183	The System shall provide an email notification to the System Administrator when a user attempts to remove a video file from storage.
184	The System shall indicate in the chain of custody logs user attempts to remove a video file from storage.
185	The System shall include a case management functionality that allows the user the ability to associate videos from different vehicles to the same case. It is desirable to allow external data, such as photos and documents, to be associated to a case.
<i>The System shall allow the user to search for video files by the following criteria:</i>	
186	· Name
187	· Serial Number
188	· Date
189	· Time
190	· Vehicle Number
191	· Division
192	· File Name
193	· Location (mapping software only)
194	· Case Number
195	The System shall allow particular user roles to disallow access to a specific video or file.
196	The System shall allow software updates at workstations to be performed simultaneously through a centralized revision manager.
Back Office: Reports & Logs	
<i>The video management system shall be able to produce audit and usage reports in Windows readable format on the following details:</i>	
197	· Number of video hours by officer, vehicle, division, and department
198	· Number of videos by officer, vehicle, division, and department
199	· Vehicle-specific metadata
200	· Number of CD/DVDs created by incident, officer, division, and department
201	· Number of system log ins, video accesses, and file accesses per user
202	The back office storage shall be able to provide chain of custody audit logs detailing all activities related to video files.
<i>The chain of custody audit logs shall provide in Windows readable format the following details:</i>	

RTM Item #	
Requirements Traceability Matrix (RTM)	
203	· Name and/or ID of the user(s) transferring data
204	· Date and time of transfer
205	· Video file identification number per LAPD policy
206	· Size of video file transferred
207	· Number of copies made to other media
208	· Type of media copies made
209	· Retention period
210	· Integrity check to validate transferred files are exact copies
211	· Successful or failed transferred of a video file
212	· Successful or failed connection for a wireless transfer
Back Office: Retrieval & Reproduction	
213	The System shall allow the user to retrieve a video without having the knowledge of the storage location of the video. <i>The System shall allow retrieval and replication of audio and video files onto an LAPD accepted media format, which include:</i>
214	· Digital Video Disc (DVD)
215	· Compact Disc (CD)
216	The System shall allow particular user roles to allow and disallow the retrieval and replication of specific audio and video files.
217	The System shall be able to create multiple copies of the accepted media format. DVD carousel recommended.
218	The System shall allow the option to super-impose the metadata on video files that have been retrieved.
219	The System shall place a watermark or unique security identifier on videos.
220	The System shall label each replicated media with a unique identifier.
221	The System shall be capable of supporting multiple media replication devices.
Evidence	
222	The System shall have the capability to convert the video files to .wmv Microsoft Windows media file format.
223	The date and time stamps in the metadata shall be unaffected by any time irregularities in the System.
224	The System shall allow the user to super-impose the metadata on the screen video playback.
225	The System shall provide a mechanism to ensure consistent time stamps between the audio and video streams of the same source.
226	The codec necessary for audio and video playback shall be provided.
Storage	
227	The System shall use a fault-tolerant storage system
Storage: Local Station	
228	The System shall have the ability to store video files for sixty (60) days at the local stations based on the estimated usage in the RFP.

RTM Item #	
	Requirements Traceability Matrix (RTM)
229	The System shall have a mechanism to verify that the transferred data is identical to the source prior to deletion from the source.
230	The System shall log at the area station storage the identification of the removable storage media to which a video file was recorded.
Storage: Data Center	
231	The System shall have the ability to store video files for five (5) years at the data center based on the estimated usage in the RFP.
Network	
232	Equipment and cabling systems facilitating wireless and hardwire transfer that are installed outdoors shall be placed in all-weather rated equipment enclosures.
233	The System shall provide network security for all points of access.
<i>The wireless network shall have the following features and configured as follows:</i>	
234	· Customized network name
235	· Disabled SSID/ESSID (Network name) broadcast
236	· Advance Encryption Standard (AES)
237	· Compliance with 802.11i/WPA2 Enterprise specifications or higher
238	· N/A
239	· Fully integratable into a Cisco Unified Wireless Network environment
System Health Monitoring	
<i>The System shall have the following health monitoring capabilities:</i>	
<i>Physical Infrastructure</i>	
240	· Hardware faults/error
241	· Network SLA/QOS
242	· Performance metrics
243	· Life cycle
<i>Application</i>	
244	· Backend and application errors
245	· System SLA/QOS
246	· Service status
247	· Heartbeats
248	· High availability (HA)
249	The notifications and alerts shall be configurable based on threshold levels and types.
250	The health reports shall be configurable based on content and frequency.
251	The System shall communicate critical alerts via email, TXT and SMS for Verizon, AT&T, Sprint, and T-Mobile

Appendix B: Valley Bureau Bill of Materials (BOM)

Table 5, Valley Bureau Vehicle BOM (477 cars plus spares)

Part #	Description	Quantity
SYSED-03 SYSED-03-EDGESD	TopCam "EDGESD" - Monitor System Single Camera & Microphone 5.7" Touchscreen Monitor (Only provided for non-embedded display vehicles; Note that there are a planned 160 vehicles that will have embedded display) Intel® Atom™ Processor N2600 (1M Cache, 1.6 GHz) (Dual Core) 2GB RAM Windows Embedded Standard 7 Supports 802.11 a/b/g/n/ac Supports both G3 & G5 mic Internal Storage: Dual Drive (16GB OS drive and 64GB failsave drive) External Storage (RMSSD): 64GB Edge HiDef RMSSD HD or SD camera 2 USB 3.0 port Three Year Limited Hardware Warranty	477
N/A	Mounting Equipment for embedded display	160
SCOPT-09 SCOPT-09-EDGE	Detached Wide Angle IR Camera (includes 1 - 12ft extension)	477
SCPKD-DRA-0400	Dual Microphone Receiver Module (Secondary sync station)	477
SCOPT-21 SCOPT-21-EDGE	Wireless - Dual Band 2.4 / 4.9 Vehicle Antenna (2 /vehicle for 802.11 N)	954
SCOPT-14 SCOPT-14-EDGE	Visor Mount Ethernet Port	477
SCMR-102 SCMR-102-EDGE	0.7x Wide Angle Adapter Lens	477
SCPKB-DRA-0100	Package B (Transmitter)	477
C-TTB-CV-F C-TTB-CV-F-EDGE	Havis Full Size Trunk Tray with Bearing for Crown Victoria	317
C-TTB-EG C-TTB-EG-EDGE	Havis Full Size Trunk Tray Option (Radio Mount Mesh)	317
ES42P-12VDC ES42P-12VDC-EDGE	GarrettComm Switch ES42P-12VDC	0
SCOPT-04 SCOPT-04-EDGE	Crash Sensor	351
SCOPT-60	GPS	351
Spare Units		
SYSED-03 SYSED-03-EDGESD	TopCam "EDGESD" - Monitor System Single Camera & Microphone 5.7" Touchscreen Monitor Intel® Atom™ Processor N2600 (1M Cache, 1.6 GHz) (Dual Core) 2GB RAM Windows Embedded Standard 7 Supports 802.11 a/b/g/n/ac Supports both G3 & G5 mic Internal Storage: Dual Drive (16GB OS drive and 64GB failsave drive) External Storage (RMSSD): 64GB Edge HiDef RMSSD HD or SD camera 2 USB 3.0 port Three Year Limited Hardware Warranty	25
SCOPT-09 SCOPT-09-EDGE	Detached Wide Angle IR Camera (includes 1 - 12ft extension)	25
SCPKD-DRA-0400	Dual Microphone Receiver Module (Secondary sync station)	25
SCOPT-21 SCOPT-21-EDGE	Wireless - Dual Band 2.4 / 4.9 Vehicle Antenna (2 /vehicle for 802.11 N)	50

Part #	Description	Quantity
SCOPT-14 SCOPT-14-EDGE	Visor Mount Ethernet Port	25
SCMR-102 SCMR-102-EDGE	0.7x Wide Angle Adapter Lens	25
SCPKB-DRA-0100	Package B (Transmitter)	25
C-TTB-CV-F C-TTB-CV-F-EDGE	Havis Full Size Trunk Tray with Bearing for Crown Victoria	0
C-TTB-EG C-TTB-EG-EDGE	Havis Full Size Trunk Tray Option (Radio Mount Mesh)	0
ES42P-12VDC ES42P-12VDC-EDGE	GarrettComm Switch ES42P-12VDC	0
SCOPT-04 SCOPT-04-EDGE	Crash Sensor	25
SCOPT-60	GPS	25
In-Car Services (Installation)		
LINST-01 LINST-01-EDGE	In-Car System Installation / Car	477
LINST-02 LINST-02-EDGE	In-Car Trunk Tray Installation / Car	477
LSET-10 LSET-10-EDGE	Wireless Client Configuration	477
LSERV-03 LSERV-03-EDGE	Project Management	477
Coban In-Car Maintenance & Support		
WMAIN-110 WMAIN-110-EDGE	Coban DVMS In-Car License with 5 Yr Maintenance	502
WARR-E45 WARR-E45-EDGE	Edge 4th and 5th year Extended Hardware Warranty / System	502
WARR-001 WARR-001-6mo-EDGE	Coban 6 Months On Site Service / System	477
WARR-001 WARR-001-24/7-EDGE	24/7, 4hr Response Time, 2nd Day Resolution / System / year (hrs)	2,385

Table 6, Valley Bureau Wireless BOM (8 Divisions)

Part #	Description	Quantity
AIR-CAP-1532E-A-K9	Cisco 802.11n Outdoor AP w/ Ext Ant Ports (5YR SMARTNET - 24x7x4)	85
AIR-ACC1530-PMK1	Cisco Wall mount kit for 153x Access Point	85
AIR-ANT2588P3M-N=	Cisco 8dBi dual band outdoor Patch Antenna	63
AIR-ANT2547V-N=	Cisco 7dBi dual band outdoor Omni Antenna	44
AIR-CT2504-15-K9	Cisco 2504 WLAN Controller 15 AP License (5YR SMARTNET - 24x7x4)	0
AIR-CT2504-25-K9	Cisco 2504 WLAN Controller 25 AP License (5YR SMARTNET - 24x7x4)	2
AIR-CT2504-RMNT=	Cisco 2504 Controller Rack Mount Kit	16
WS-C3850X-24P-S	Cisco Catalyst 3850x 24 Port Switch (5YR SMARTNET - 24x7x4)	30
GLC-SX-MM=	Cisco SFP Gigabit Optical Transceiver (5YR SMARTNET - 24x7x4)	40
318376	TWS-195 Antenna Cable. Male to Male 3'	82
3560GC-8PC-S	Cisco Catalyst 3560 8 Port PoE Switch (5YR SMARTNET - 24/7/4)	6
RCKMNT-19-CMPCT=	Cisco 19 inch Rackmount kit for 3560 Switch	6
GL24WMS	Great Lakes 24" Wall Mount Cabinet -- 7219 Power Strip -- 7217WS Fan Assembly -- FFK1- Fan Filters	6
Wireless Services		
LSET-07 LSET-07-Wireless	DVMS Wireless Configuration / Station --AP Config --Switch Config --Controller Config --Wireless DVMS Server Config	8
LINST-06 LINST-06-Wireless	Wireless Cabling --Fiber Run: enclosures, panels, connector, cable, conduit & conduit hardware --Cat 5e Cable Run: cable, jacks, patch panels --Label and test all data cable per EIA-TIA and BICSI standards and to provide final documentation --Rental cost of the boom lift for AP's --Seismic brace and anchoring the server cabinets to the floor --Exclusion: Building Permits and Fees / New Electrical Power Panels N Hollywood - Install 8 access points w/ antennas, 5 reels, 1 MDF, 0 IDF & 0 MTD IDF rack Valley Traffic - Install 9 access points w/ antennas, 5 reels, 1 MDF, 0 IDF & 0 MTD IDF rack West Valley - Install 13 access points w/ antennas, 5 reels, 1 MDF, 1 IDF & 0 MTD IDF rack Van Nuys - Install 9 access points w/ antennas, 5 reels, 1 MDF, 0 IDF & 2 MTD IDF rack Mission - Install 15 access points w/ antennas, 5 reels, 1 MDF, 1 IDF & 0 MTD IDF rack Devonshire - Install 10 access points w/ antennas, 5 reels, 1 MDF, 0 IDF & 0 MTD IDF rack Topanga - Install 11 access points w/ antennas, 5 reels, 1 MDF, 0 IDF & 0 MTD IDF rack Foothill - Install 9 access points w/ antennas, 5 reels, 1 MDF, 1 IDF & 0 MTD IDF rack All exposed cable will be run in EMT. All cable will be ran to the racks and terminated to a 24port patch panel.	1
Power Installation	Electrical Power Redundant power outlets in MDF and IDF at all (8) divisions	1
Coban Professional Service		
LSERV-08 LSERV-08-Wireless	Technical Services. (hrs) --Wireless Design --Remote Service --Out of Scope Work	400

Table 7. Valley Bureau Back Office BOM (8 Divisions)

Part #	Description	Quantity
R-530 R-530-Back Office	OEM PowerEdge R520,TPM (225-3129) OEM PowerEdge R520 Shipping (331-7419) Risers with up to 4 x16 PCIe Slots (331-7118) On-Board Broadcom 5720 Dual Port 1GBE (430-4715) Intel Ethernet I350 DP 1Gb Server Adapter, Low Profile (430-4441) Basic Management (331-3482) 3.5" Chassis with up to 4 or 8 Hard Drives (318-2065) SAS Cable for Hardware RAID (331-7108) Fresh Air Cooling (331-8242) Brand/Bezel, OEM PowerEdge R520 (318-2153) Performance BIOS Setting (330-3492) RAID 1+RAID 5 for H710P/H710/H310 (2 SATA + 3-6 SAS HDDs) (331-7087) PERC H710 Integrated RAID Controller, 512MB NV Cache (342-3529) Heat Sink,PowerEdge (317-9826) Intel Xeon E5-2430 2.20GHz, 15M Cache, 7.2GT/s QPI, Turbo, 6C, 95W (319-0021) Heat Sink,PowerEdge (317-9826) Intel Xeon E5-2430 2.20GHz, 15M Cache, 7.2GT/s QPI, Turbo, 6C, 95W (319-0030) 4GB RDIMM, 1333 MT/s, Low Volt, Single Rank, x4 Data Width (317-9649) - Quantity 4 1333 MHz RDIMMs (331-4422) Performance Optimized (331-4428) 1TB 7.2K RPM Near-Line SAS 6Gbps 3.5in Hot-plug Hard Drive (342-2098) - Quantity 5 500GB 7.2K RPM SATA 3Gbps 3.5in Hot-plug Hard Drive (341-8728) - Quantity 2 Electronic System Documentation and OpenManage DVD Kit for R520 (331-7116) DVD ROM, SATA, Internal (313-7541) ReadyRails Sliding Rails With Cable Management Arm (331-4433) Dual, Hot-plug, Redundant Power Supply (1+1), 750W (331-4605) Power Distribution Board for Hot Plug Power Supplies (331-7112) Power Cord, NEMA 5-15P to C13, 15 amp, wall plug, 10 feet / 3 meter (310-8509) - Quantity 2 Display, Flat Panel Display, 17,E1713SB,BLK,DAO, Latitude, Precision, OptiPlex (320-9602) Optical Mouse, Two Buttons, USB, Black (331-0846) Dell QuietKey Keyboard, No Hot Keys, English, No Palmrest, ESG (331-2254) ProSupport for OEM: 4-Hour 7X24 Onsite Service After Problem Diagnosis, 15 Months (939-0304) ProSupport for OEM: 4-Hour 7X24 Onsite Service After Problem Diagnosis, 48 Months Extended (939-2864) ProSupport for OEM: 7x24 Technical Support, 63 Months (939-2904) Dell ProSupport. For tech support, visit http://support.dell.com/ProSupport or call 1-800-945-3355 (989-3439) Dell Hardware Limited Warranty Plus On Site Service Initial 15 Months (994-9967) Dell Hardware Limited Warranty Plus On Site Service Extended Months(s) (995-0187) On-Site Installation Declined (900-9997) Proactive Maintenance Service Declined (926-2979) OEM Solutions Basic Program Support (927-3179)	0 ⁽¹⁾
SWITCH SWITCH-Back Office	Cisco Catalyst 3850X-24P-S - (WS-C3850X-24P-S) x 1 Cisco SMARTnet (CON-SNTE-3850X2PS) x 5 Cisco 1000BASE-SX SFP (GLC-SX-MM=) x 1 BELKIN 500'FIBER OPTIC CABLE ST/ST (A2F20200-500) x 1 (switches are all covered in wireless section)	0
UPS UPS-Back Office	Dell UPS Rack, 1920W, 2U, 120V,with 5-20P to C19, 3m input cord (225-2386) Dell UPS External Battery Module, Rack, 72V, 2U, for 1920W UPS (312-2222) Basic Hardware Services: Business Hours (5X10) Next Business Day On Site Hardware Warranty Repair 4 Year Exten (933-1554) Dell Hardware Limited Warranty Initial Year (935-2197) Dell Hardware Limited Warranty Extended Year(s) (938-8378) Basic Hardware Services: Business Hours (5X10) Next Business Day On Site Hardware Warranty Repair Initial Year (996-4610) On-Site Installation Declined (900-9997)	16
RACK RACK-Back Office	Rack Dell 4220 42U Rack with Doors and Side Panels Basic: Business Hours (5X10) Next Business Day Parts Delivery 4 Year Extended (987-9524) Basic: Business Hours (5X10) Next Business Day Parts Delivery Initial Year (992-5090) Dell Hardware Limited Warranty Extended Year (993-4108) Dell Hardware Limited Warranty Initial Year (993-4117)	8
SCMIC-CHG10 SCMIC-CHG10-Back Office	Microphone Charging Bank	80

Part #	Description	Quantity
SYSTS-01 SYSTS-01-Back Office	Tech Support Kit	8
BUPL-01 BUPL-01-Back Office	Mobile HDD Up-Load Stand	16
WIR-11	CAT 5 w/ Retractable Cable Reel (Two per division)	16
Back Office License with Maintenance		
A5917735 / A5917706 A5917735 / A5917706- Back Office	MS SQL Server License / Server with 5 Cal SQL SVRSTD 2012 SNGL OLP NL (A5917735) SQL CAL 2012 SNGL OLP NL DVCCAL (A5917706) x 5	0 ⁽¹⁾
A6362262 / A6362243 A6362262 / A6362243- Back Office	Windows Server 2012 Standard with 5 Devise Cal WIN SVR STD 2012 SNGL OLP NL 2 PROC (A6362262) WIN SVRCAL 2012 SNGL NL DVCCAL (A6362243)	0 ⁽¹⁾
WMAIN-111 WMAIN-111-Back Office	5 Yr. DVMS Back Office Software Enterprise Maintenance / Station	8
Back Office Services		
LINST-02 LINST-02-BACK OFFICE	Racking and Installation of Server, RAID, UPS and Switch / Station --Racking --Formatting HDD --Load and Config OS	16
LSET-03 LSET-03-Back Office	COBAN DVMS Configuration / Server --Load and Config SQL --Load and Config DVMS	8

(1) LAPD shall provide a total of eight (8) servers/licenses for the Valley Bureau primary division servers. These servers are the ones taken from Central Bureau and the back-up servers at CHE and VDC.

Appendix C: Upgraded EDGE System

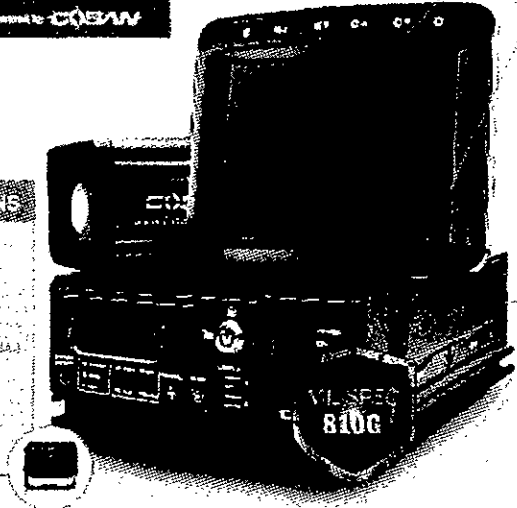
Table 8, EDGE SD vs. Classic EDGE Comparison Matrix

	Edge SD	Edge (Classic)
Processor	Intel® Atom™ Processor N2600 (1M Cache, 1.6 GHz) (Dual Core)	Intel® Atom™ Processor N270 (512K Cache, 1.60 GHz) (Single Core)
Memory	2GB	1GB
OS	Windows Embedded Standard 7	Windows Embedded Standard 2009
Wireless	Supports 802.11 a/b/g/n/ac	Only supports 802.11a/g/n (No 802.11 ac support)
Microphone	Supports both G3 & G5 mic	Supports both G3 & G5 mic
Internal Storage	Dual Drive (16GB OS drive and 64GB failsave drive)	Single drive (32GB SSD for both OS and Failsave)
External Storage (RMSSD)	64GB	32GB
RMSSD Compatibility	Edge HiDef RMSSD only	Will fit both Edge AND Edge HiDef RMSSD
Camera	HD or SD camera	SD camera only
USB 3.0	USB 3.0 port	none
Power button On Main Unit	Yes	No

EDGE SD

Powered by COBAW

- CAMERA OPTIONS**
- STANDARD CAMERAS**
- 1080p Optical Zoom
 - 1.1" LCD Lens
 - 3.0x
 - A.S.D. Night Vision
 - Color and Infrared
- REAR CAMERAS**
- 1080p
 - 0.5x
 - 1000p Night Vision



- KEY FEATURES**
- 5.7" Touchscreen Monitor
 - 1080p Optical Zoom
 - 1.1" LCD Lens
 - 3.0x
 - A.S.D. Night Vision
 - Color and Infrared
 - 1080p
 - 0.5x
 - 1000p Night Vision
- Full 3-year hardware warranty.**
- WE STORED. We've got your back.**

KEY FEATURES

CAMERA FEATURES

- Up to 5 Cameras
- 18x Optical Zoom
- Less than 1 Lux
- 55° Viewing Angle

MICROPHONE FEATURES

- 900 MHz for least interference
- Clear up to 1000'
- Up to 20 hours Talk Time
- Multichannel with Auto Synchronization
- Rechargeable Lithium-Ion Battery
- 7-Day Standby Time

MONITOR FEATURES

- Sunlight Readable
- Glove Friendly Buttons
- Anti-Glare

Video Solutions for Vehicles

5.7" Touchscreen Monitor
 Unusually 5.7" size designed for easy operation. Easy tag videos with the correct ID and event data after a stop.

Triple Drive Solid State Architecture
 COBAW utilizes high performance, industrial grade, solid-state drive technology for imaging parts, eliminating the chance that bumps in the road or the vehicle vibrations will affect the high definition video recording. With over a decade of experience, COBAW has perfected the rugged removable drive based on the unique needs of law enforcement.

Needs-Free System Updates
 Whether downloaded (or removable drive) for software updates or system settings reduces the chance of human error and eliminates downtime during updates.

FallBack
 The highest availability of video evidence out there dual stream, fail-safe recording. Video is captured twice into two independent drives. We've got your back.

Smart Power Module
 With accelerated power management and built-in uninterruptible power supply (UPS). Smart Power Module regulates vehicle voltage and protects your battery and the system's own power supply.

Video Streaming Enabled
 No additional hardware necessary. (Requires 4G connection and proper bandwidth.)


Wireless Capabilities
 (802.11 a/g/n and cellular WiMax)
 Multiple protocols provide flexibility for uploading and wireless updates.

Removable Solid-State Drive
 Drive long life cycle and fast read/write speeds. Great choice for video upload when wireless upload is unavailable.

Rugged 800 MB/s, Bidirectional, Water-Resistant files
 Clear to 1000 feet, file time up to 10 hours. Two agency-defined, programmable buttons offer multiple functions.

Troop test Meets MIL-SPEC-810G 62 Tough
 A meets military specifications (MIL-SPEC 810G). Built to take on the temperature, stress, and vibration of the harshest mobile environment.

Near-Evo Lux Night Mode
 Provides clear details for recording video in low light when recording in IR mode.



FROM CAR TO CO, HI,
WE'VE GOT YOUR BACK

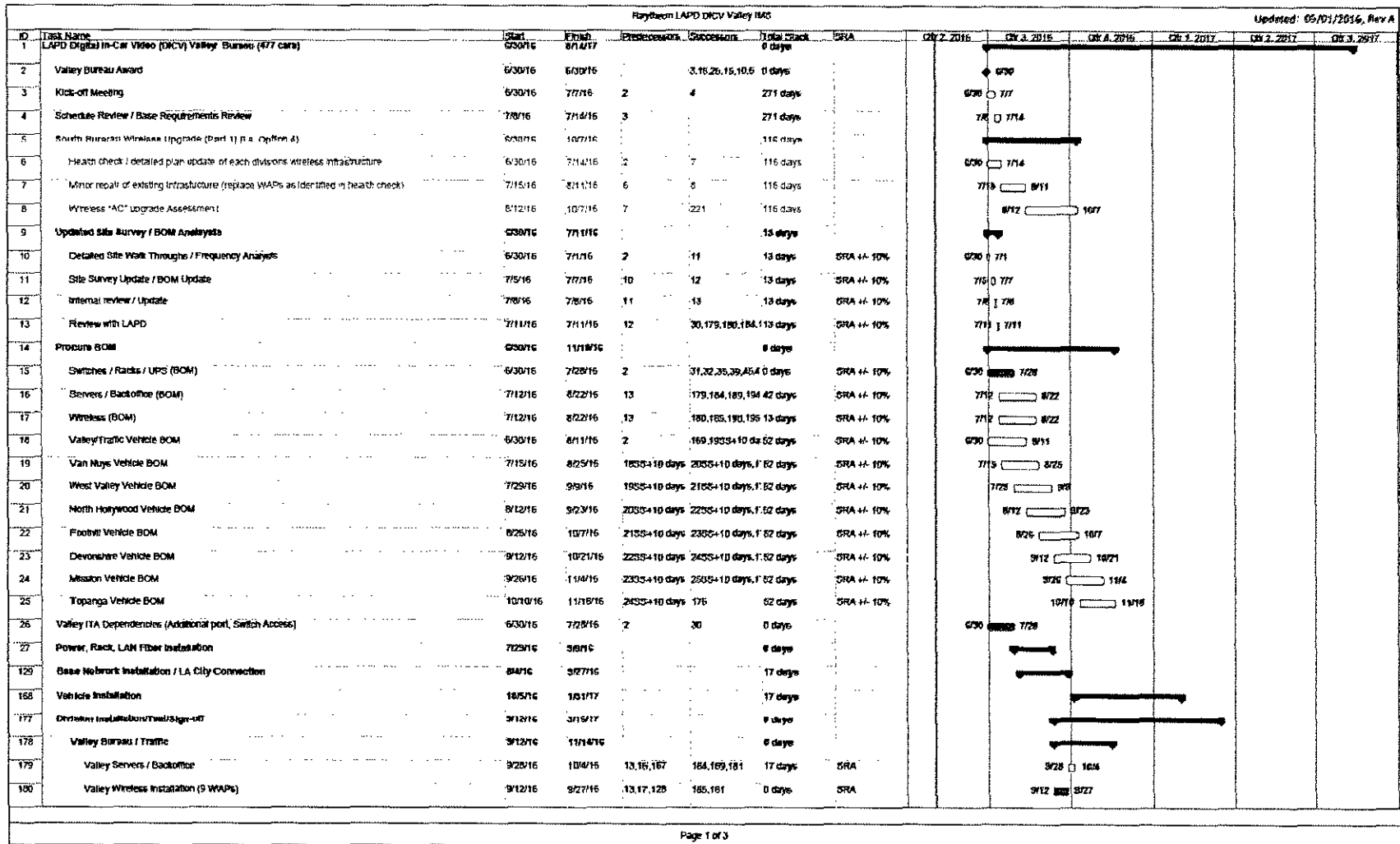
1.866.81.COBAW | www.cobawtech.com

Figure 2, EDGE SD Data Sheet

Appendix D: Reserved

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Appendix E: Valley/South Bureau Notional Schedule



Raytheon LAPD DCV Valley IMS								Updated: 05/01/2016, Rev A					
ID	Task Name	Start	Finish	Start/Stop/Start	Stop/Start	Total Slack	SRA	CR 2, 2016	CR 3, 2016	CR 4, 2016	CR 1, 2017	CR 2, 2017	CR 3, 2017
181	Valley Contractor Test / Dry-run	10/25/16	11/7/16	169,175,190	182	80 days	SRA			10/25 □ 11/7			
182	Valley/Traffic Formal Testing / Self-off	11/8/16	11/14/16	181	218	80 days	SRA			11/8 □ 11/14			
183	Van Nuys	10/25/16	11/29/16			9 days				10/25 □ 11/29			
184	Van Nuys Servers / Backoffice	10/5/16	10/11/16	13,16,167,179	189,170,185	25 days	SRA			10/5 □ 10/11			
185	Van Nuys Wireless (9 WAPS)	9/28/16	10/14/16	13,17,128,180	190,196	0 days	SRA			9/28 □ 10/14			
186	Van Nuys Contractor Test / Dry-run	11/7/16	11/18/16	170,184,185	187	71 days	SRA			11/7 □ 11/18			
187	Van Nuys Formal Testing / Self-off	11/21/16	11/29/16	186	218	71 days	SRA			11/21 □ 11/29			
188	West Valley	10/12/16	12/12/16			3 days				10/12 □ 12/12			
189	West Valley Servers / Backoffice	10/18/16	10/18/16	13,16,167,184	194,171,191	30 days	SRA			10/18 □ 10/18			
190	West Valley Wireless (13 WAPS)	10/17/16	11/8/16	13,17,128,185	195,191	0 days	SRA			10/17 □ 11/8			
191	West Valley Contractor Test / Dry-run	11/18/16	12/5/16	171,189,190	192	62 days	SRA			11/18 □ 12/5			
192	West Valley Formal Testing / Self-off	12/5/16	12/12/16	191	210	62 days	SRA			12/5 □ 12/12			
193	North Hollywood	10/19/16	12/23/16			15 days				10/19 □ 12/23			
194	North Hollywood Servers / Backoffice	10/19/16	10/25/16	13,16,167,189	199,172,196	34 days	SRA			10/19 □ 10/25			
195	North Hollywood Wireless (8 WAPS)	11/8/16	11/28/16	13,17,128,190	200,196	0 days	SRA			11/8 □ 11/28			
196	North Hollywood Contractor Test / Dry-run	12/5/16	12/16/16	172,194,195	197	63 days	SRA			12/5 □ 12/16			
197	North Hollywood Formal Testing / Self-off	12/19/16	12/23/16	196	218	63 days	SRA			12/19 □ 12/23			
198	Foothill	10/26/16	11/3/17			22 days				10/26 □ 11/3			
199	Foothill Servers / Backoffice	10/26/16	11/1/16	13,16,167,194	204,173,201	36 days	SRA			10/26 □ 11/1			
200	Foothill Wireless (9 WAPS)	11/29/16	12/15/16	13,17,128,195	205,201	0 days	SRA			11/29 □ 12/15			
201	Foothill Contractor Test / Dry-run	12/16/16	1/5/17	173,195,200	202	44 days	SRA			12/16 □ 1/5			
202	Foothill Formal Testing / Self-off	1/5/17	1/13/17	201	218	44 days	SRA			1/5 □ 1/13			
203	Devonshire	11/2/16	2/1/17			30 days				11/2 □ 2/1			
204	Devonshire Servers / Backoffice	11/2/16	11/8/16	13,16,167,199	209,174,206	42 days	SRA			11/2 □ 11/8			
205	Devonshire Wireless (10 WAPS)	12/16/16	1/11/17	13,17,128,200	210,206	0 days	SRA			12/16 □ 1/11			
206	Devonshire Contractor Test / Dry-run	1/12/17	1/25/17	174,204,205	207	31 days	SRA			1/12 □ 1/25			
207	Devonshire Formal Testing / Self-off	1/25/17	2/1/17	206	218	31 days	SRA			1/25 □ 2/1			
209	Mission	11/8/16	2/24/17			14 days				11/8 □ 2/24			
209	Mission Servers / Backoffice	11/8/16	11/15/16	13,16,167,204	214,175,211	65 days	SRA			11/8 □ 11/15			
210	Mission Wireless (16 WAPS)	1/12/17	2/3/17	13,17,128,205	215,211	0 days	SRA			1/12 □ 2/3			
211	Mission Contractor Test / Dry-run	2/5/17	2/17/17	175,209,210	212	14 days	SRA			2/5 □ 2/17			
212	Mission Formal Testing / Self-off	2/20/17	2/24/17	211	218	14 days	SRA			2/20 □ 2/24			
213	Topanga	11/19/16	3/19/17			6 days				11/19 □ 3/19			

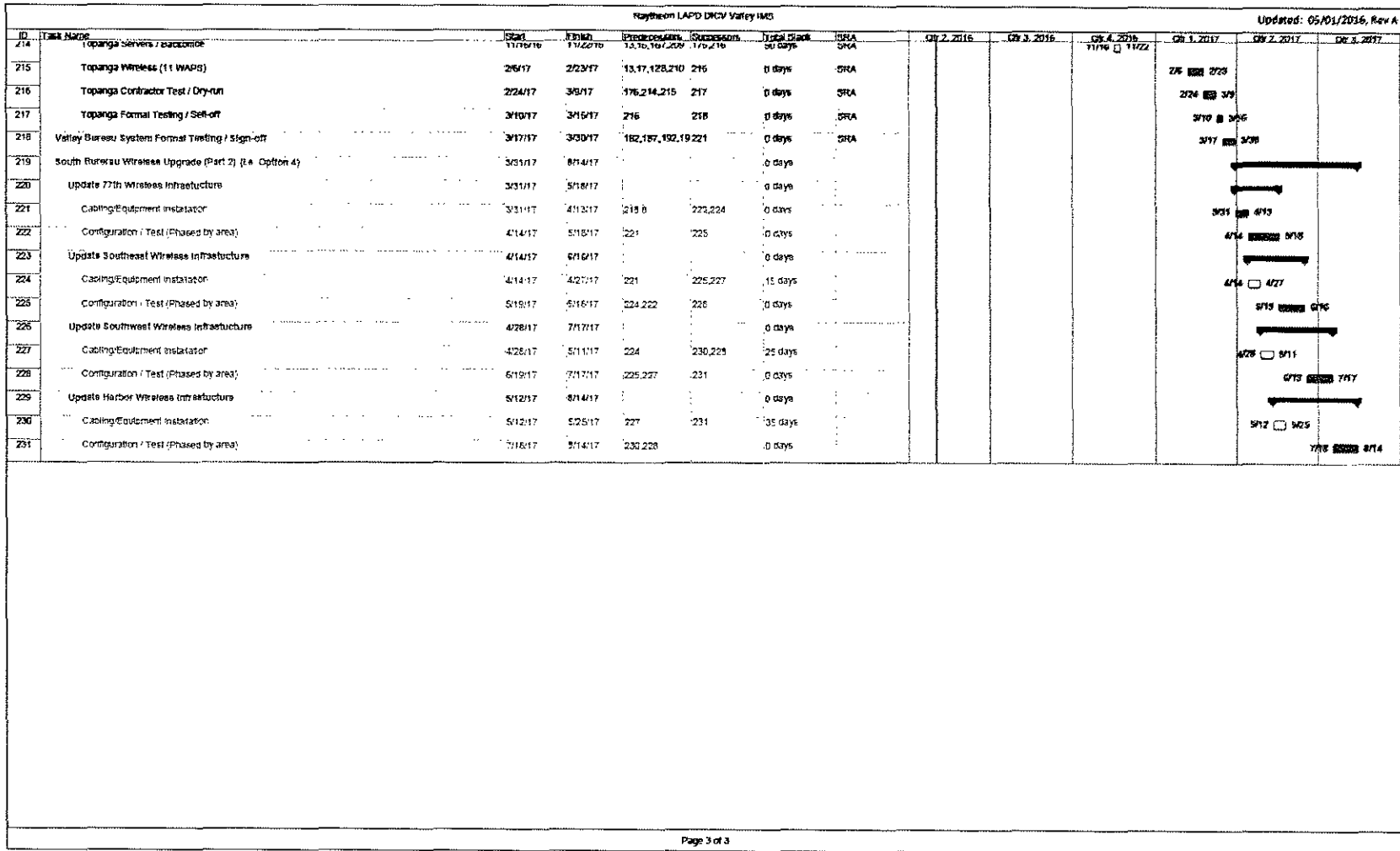


Figure 3, Valley / South Bureau Notional Schedule (3 Pages Above)

Appendix F: Limited Warranty Statements

1. Coban

(Hardware Repair Service)

The following document details the COBAN Manufacturer Limited Warranty for the TOPCAM EDGE System. COBAN Technologies, Inc. ("COBAN") warrants the COBAN Manufactured TOPCAM EDGE System ("PRODUCT"), against defects in material and workmanship under normal use and service for a period of five (5) years and, such warranties shall begin when the PRODUCT is installed and accepted by the Original End User ("CLIENT"). This expressed Limited Warranty is extended by COBAN to the CLIENT purchasing the PRODUCT for purposes of governmental use only, and is not assignable or transferable to any other party. This is the complete warranty for the PRODUCT manufactured by COBAN and it does not warrant the installation, maintenance, support or service of the PRODUCT unless a separate written agreement is made between COBAN and CLIENT. Please refer to DVMS Maintenance Support Service Option for technical support and software support details.

WARRANTY COVERAGE

The warranty applies within all fifty (50) states of the United States of America. This Limited Warranty is null and void if the factory applied serial number or tamper evident labels have been damage, altered or removed from the product. COBAN, at their discretion, will at no charge, repair the PRODUCT (with new or reconditioned parts), or replace it with the same or equivalent PRODUCT (using new or reconditioned products), during the warranty period, provided that the CLIENT notifies COBAN according to the terms of this warranty. The repaired or replaced PRODUCT is warranted for the remaining original applicable warranty period. All returned parts of the PRODUCT shall become the property of COBAN.

Items covered under this warranty:

- EDGE CPU / Encoder Module is covered for five (5) year under this warranty.
- EDGE Display Module is covered for five (5) year under this warranty.
- EDGE Power Supply Module is covered for five (5) year under this warranty.
- EDGE Removable Hard Disk is covered for five (5) year under this warranty.
- EDGE System Cables are covered for three five (5) under this warranty.
- EDGE Wireless Microphone ("Mic.") Transmitter is covered for five (5) year under this warranty.
- EDGE Wireless Mic. Receiver is covered for five (5) year under this warranty.
- EDGE Primary Forward Facing Camera is covered for five (5) year under this warranty.

WARRANTY LIMITATION

- EDGE System Wires is covered for six (6) months under this warranty.
- EDGE Power Supply Battery is covered for six (6) months under this warranty.
- EDGE Wireless Mic. Transmitter Pouch is covered for six (6) months under this warranty.
- EDGE Wireless Mic. Transmitter Battery is covered for six (6) months under this warranty.
- EDGE Wireless Mic. Transmitter Antenna is covered for six (6) months under this warranty.
- EDGE Wireless Mic. Receiver Antennas is covered for six (6) months under this warranty.
- EDGE Optional Peripheral Devices are covered for six (6) months under this warranty.
- Coban will provide annual replacement Power Supply and Wireless Mic. Transmitter batteries for five (5) years. The LAPD will be wholly responsible for the management, logistics, and physical exchange of the batteries.

GENERAL WARRANTY PROVISIONS

This warranty sets forth the extent of COBAN'S responsibilities regarding the PRODUCT. Repair and replacement of the purchase price, at COBAN'S option, is an exclusive remedy.

THE WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. COBAN DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL COBAN BE LIABLE FOR DAMAGES IN EXCESS OF THE ORIGINAL PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCES, COMMERCIAL LOSS, LOST PROFITS, OR SAVINGS OR OTHER INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL

DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT TO THE FULL EXTENT THAT MAY BE DISCLAIMED BY LAW

FORCE MAJEURE

COBAN shall not be liable for delays or failure to perform with respect to this agreement due to Force Majeure including (i) causes beyond the party's reasonable control and not avoidable by diligence, (ii) acts of God, epidemics, war, riots, or delays in transportation which are beyond the party's reasonable control and not avoidable by diligence, or (iii) inability for causes beyond its control and not avoidable by diligence to obtain necessary labor, materials, or manufacturing facilities, or delays caused by COBAN's due to similar causes. In the event of any such delay (each such event being beyond the party's reasonable control and not avoidable by diligence), the date of performance shall be extended for a period equal to the time lost by reason of the delay.

CLIENT'S RESPONSIBILITIES

It is the CLIENT responsibility to backup the contents of all hard drives, including any data that may be stored or software that may have been installed on the hard drive. It is possible that the contents of hard drives will be lost or that the drive may need to be reformatted in the course of service and as such COBAN will not be held liable for any damage to or loss of any program, data or other information stored on any media or any part of any PRODUCT serviced hereunder. It is HIGHLY recommended that the CLIENT create a valid disk "image" after final installation is completed. This image will need to be updated as changes are made to the units and kept safe by the CLIENT for data recovery purposes. COBAN assumes no liability or responsibility in developing a disaster recovery policy for the CLIENT. The CLIENT will perform any and ALL data reconstruction, unless specifically stated in the initial contract between COBAN and the CLIENT.

CLIENT'S REPRESENTATIVE

At all times during the term of this warranty, at least one (1) employee of the CLIENT shall be designated to act as Representative. Representative shall be responsible to react to all equipment problems, attempt troubleshoot to isolate the malfunction area, notify COBAN of the need for service and cooperate with COBAN to diagnose the problem over the telephone.

All initial RMA Requests MUST be called into COBAN's Tech Support line (281-277-8288 option 3) or entered via COBAN Customer Support Web Portal (<http://customer.COBANtech.com>).

Proof of a bill of sale or purchase order (which is evidence that the PRODUCT is within the warranty period) must be presented to obtain warranty service if requested.

RMA AND SHIPPING

If COBAN determines that all or part of the PRODUCT requires return for repair or replacement, a Return Merchandise Authorization Number (RMA NUMBER) will be issued. The CLIENT will return the PRODUCT to COBAN with the RMA Number clearly marked on the box. During the first ninety (90) days of deployment, COBAN will cover the cost of any RMA shipment to and from COBAN's maintenance facility. After the first one hundred eighty (180) days, the CLIENT will be responsible for shipping charges and to insure the product arrives at COBAN intact. COBAN will pay for return shipping, via Ground shipping services to return the repaired/serviced modules back to the CLIENT. Any expedited shipping requests will be the responsibility of and paid for by the CLIENT. Repair times for defective modules are objectives, not guarantees.

ADVANCE PLACEMENT / CROSS SHIP

If advance replacement / cross ship is required and the CLIENT wishes to receive the most expedient service available, the CLIENT will be required to provide COBAN with a credit card authorization to bill the CLIENT credit card in the event that the CLIENT fails to return the original parts. The credit card will only be charged for COBAN's list price for the part if the part has not been returned within ten (10) days.

Type of Card: _____

Credit Card Number: _____

Expiration Date: _____

OTHER INFORMATION

Unit Replacement

Once a replacement component has been received, the CLIENT must relinquish the defective unit to COBAN. If the defective unit is not returned within fifteen (15) days, the CLIENT agrees to pay COBAN the cost for the replacement unit upon receipt of invoice. Failure to honor the invoice within fifteen (15) days after receipt will cause the cancellation of this Service Description Agreement and may result in other legal actions, including but not limited to suspending shipment of subsequent units and or replacement components.

Parts Ownership

All service parts removed from the CLIENT Supported System become the property of COBAN. The CLIENT will be obligated to pay at the current retail price(s) for any service parts removed from the CLIENT Supported System and retained by the CLIENT. COBAN will use new and reconditioned parts made by various manufacturers in performing warranty repairs.

NON-WARRANTY SERVICES

Each warranty request pertaining to any item not covered under the EDGE Manufacture Limited Warranty shall be invoiced to the CLIENT at the agreed upon Time and Materials rate. Currently, COBAN charges \$ 125.00 per hour on non-warranty phone support and \$ 95.00 per hour on none warranty repair. COBAN Support Engineers are not authorized to service any third party hardware, software or vehicle issues.

COBAN will charge the CLIENT a \$ 95.00 service fee for any RMA units/components that are returned to COBAN as "non-warranty" items. Non Warranty items are defined under section titled ITEMS NOT COVERED UNDER THIS WARRANTY. Non-Warranty repair work will be billed separately from this service fee.

COBAN will charge the CLIENT a \$ 95.00 service fee for any RMA units/components that are returned to COBAN as "non-operational" that are in fact operational (i.e.: CPU units that have not been ghosted properly, scratched / hazy touch screen monitors, microphones missing parts such as: battery, internal seals, antennas, obvious misuse or damaged systems).

COBAN will obtain approval/direction for any billable service before repairs are initiated (i.e. devices not covered, repairs not covered, etc.).

COMPLIANCE

FAILURE TO FOLLOW ANY OF THE ABOVE INSTRUCTIONS MAY RESULT IN DELAYS AND MAY CAUSE THE CLIENT TO INCUR ADDITIONAL CHARGES, OR MAY VOID WARRANTY.

IF DURING THE REPAIR OF THE PRODUCT, THE DATA STORED ON THE HARD DRIVE ARE ALTERED, DELETED, OR IN ANY WAY MODIFIED, COBAN IS NOT RESPONSIBLE WHATSOEVER TO RECOVER OR RESTORE SAID DATA. THE CLIENT'S PRODUCT WILL BE RETURNED TO THE CLIENT IN THE ORIGINAL MANUFACTURED CONFIGURATION (SUBJECT TO AVAILABILITY OF SOFTWARE).

ITEMS NOT COVERED UNDER THIS WARRANTY

This warranty does not cover periodically or consumed parts during the life of the product such as but not limited to batteries, cables and wires; loss or damage resulting from external causes such as damage resulting from dropping of the PRODUCT, collision with any object, fire, flooding, sand, dirt, windstorm, hail, earthquake or damage from exposure to weather conditions, misuse, abuse, damage resulting from improper use of any electrical source, power surges, damage occurring during transport.

This warranty does not cover ancillary equipment not furnished by COBAN, which may be attached to or used in connection with the PRODUCT, or for operation of the PRODUCT with any ancillary equipment. All such ancillary equipment is expressly excluded from this warranty.

All preventive maintenance recommended by COBAN to maintain the product in operating condition is the responsibility of the CLIENT; loss or damage resulting from failure to provide recommended maintenance is not covered under this contract.

1. On-site service
2. Triage and level one helpdesk phone support
3. De-installation or re-installation of product(s) or software application(s)
4. Warranty support or service for third party systems
5. Troubleshooting of applications or application compatibility issues
6. Data migration
7. Vehicle related issues such as electrical
8. Normal and customary wear and tear
9. Damage due to connection to improper voltage supply
10. PRODUCTS that has had the serial numbers removed or made illegible.
11. Systems that are non-operational due to abuse, neglect or improper usage for anything other than what the system was configured to do (not limited to dirt, debris, water damage or liquid of any type)

12. A PRODUCT subjected to unauthorized entry or opening of the COBAN module, monitor or forced removal of the MHDD and/or components.
13. A PRODUCT subjected to unauthorized PRODUCT modifications, disassemblies, or repairs (including, without limitation, the addition to the PRODUCT of non-COBAN supplied equipment) that adversely affect performance of the PRODUCT or defects or damage from improper testing, operation, maintenance, installation alteration, modification, or adjustment.
14. A PRODUCT affected by virus, security breach, or other network related occurrence including but not limited to: installation of third party software applications, network security settings changes resulting in loss of communication, ability to properly use the system or configurations that deviate from the Original Master Gold Image.
15. A PRODUCT, which, due to illegal or unauthorized alteration of the software / firmware in the PRODUCT, does not function in accordance with COBAN, published specifications or with the FCC type acceptance labeling in effect for the PRODUCT at the time the PRODUCT was initially distributed from COBAN.
16. Scratches or other cosmetic damages to the Product's surfaces that do not affect the operation of the PRODUCT.

2. Dell

Terms of Sale

Dell's Reseller Terms of Sale (www.dell.com/resellerterms).

If this purchase includes services: in addition to the foregoing applicable terms, Dell's Service Terms (www.dell.com/servicecontracts/global).

PowerEdge R520

Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, 4 Year Extended (938-9514)

ProSupport: 7x24 HW / SW Tech Support and Assistance, 5 Year (938-9554)

Dell Hardware Limited Warranty Plus On Site Service Initial Year (939-9437)

MISSION CRITICAL PACKAGE: Enhanced Services, 5 Year (939-9467)

Dell Hardware Limited Warranty Plus On Site Service Extended Year (939-9677)

Dell ProSupport. For tech support, visit <http://support.dell.com/ProSupport> or call 1-800-945-3355 (989-3439)

Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, Initial Year (996-8351)

PowerEdge R720xd

Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, 4 Year Extended (934-5124)

ProSupport: 7x24 HW / SW Tech Support and Assistance, 5 Year (934-5164)

Dell Hardware Limited Warranty Plus On Site Service Initial Year (936-0967)

MISSION CRITICAL PACKAGE: Enhanced Services, 5 Year (936-0997)

Dell Hardware Limited Warranty Plus On Site Service Extended Year (939-3398)

Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, Initial Year (989-2641)

Dell ProSupport. For tech support, visit <http://support.dell.com/ProSupport> or call 1-800-945-3355 (989-3439)

PowerVault MD3060e

Dell Hardware Limited Warranty Initial Year (967-5361)

Dell Hardware Limited Warranty Extended Year(s) (967-5362)

Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, Initial Year (967-5399)

Mission Critical Package: 4-Hour 7x24 On-Site Service with Emergency Dispatch, 4 Year Extended (967-5404)

ProSupport: 7x24 HW / SW Tech Support and Assistance, 5 Year (967-5457)

MISSION CRITICAL PACKAGE: Enhanced Services, 5 Year (967-5471)

Dell ProSupport. For tech support, visit <http://support.dell.com/ProSupport> or call 1-800-945-3355 (989-3439)

SMART UPS X 2200VA

SP-04 1YR EWP (A1544721)

APC WEXTWAR1YR-SP-05 1-Year Extended Warranty Renewal (A1563613)

Dell Smart-UPS 5000VA

APC WEXTWAR1YR-SP-05 1-Year Extended Warranty Renewal (A1563613)

APC Extended Warranty Renewal - 1-Year (A7211875)

DELL EXT Run BATTERY

APC Extended Warranty Renewal - 1-Year (A7211875)

EXTERNAL BATTERY PACK FOR SMART UPS X RT 120V

(A6818614)

APC WEXTWAR1YR-SP-05 1-Year Extended Warranty
Renewal (A1563613)

3. Cisco

Hardware. Cisco Systems, Inc., or the Cisco Systems, Inc. subsidiary selling the Product ("Cisco") warrants that commencing from the date of shipment to Customer (and in case of resale by a Cisco reseller, commencing not more than ninety (90) days after original shipment by Cisco), and continuing for a period of the longer of (a) ninety (90) days or (b) the period set forth in the warranty card accompanying the Product (if any), the Hardware will be free from defects in material and workmanship under normal use. The date of shipment of a Product by Cisco is set forth on the packaging material in which the Product is shipped. This limited warranty extends only to the original user of the Product. Customer's sole and exclusive remedy and the entire liability of Cisco and its suppliers under this limited warranty will be, at Cisco's or its service center's option, shipment of a replacement within the warranty period and according to the replacement process described in the warranty card (if any), or if no warranty card, as described on the Cisco Product Warranties web page www.cisco.com/go/warranty or a refund of the purchase price if the Hardware is returned to the party supplying it to Customer, freight and insurance prepaid. Cisco replacement parts used in Hardware replacement may be new or equivalent to new. Cisco's obligations hereunder are conditioned upon the return of affected Hardware in accordance with Cisco's or its service center's then-current Return Material Authorization (RMA) procedures.

The End User License Agreement may be located below, or at the following URL:

www.cisco.com/go/eula

Product warranty terms and other information applicable to the Product may be located at the following URL:

www.cisco.com/go/warranty

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United States Federal Communications Commission Notice

The following information is for FCC compliance of Class A devices: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to correct the interference at their own expense.

The following information is for FCC compliance of Class B devices: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with Cisco's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If the equipment causes interference to radio or television reception, which can be determined by turning the equipment off and on, users are encouraged to try to correct the interference by using one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications to this product not authorized by Cisco could void the FCC approval and negate your authority to operate the product.

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Appendix H: Equipment Safety Statement

Equipment Safety - Special Terms and Conditions

Digital video surveillance systems, including in-vehicle systems, offer new functionality and added convenience, but they may also introduce some unique security and privacy exposures. These exposures include, but are not limited to, policies and operating procedures related to

- a) Capture, transfer, and management of digital images
- b) Use of these digital images in legal proceedings
- c) Use of these digital images for other purposes

Numerous techniques are available that may mitigate some of these unique security and privacy risks, including ensuring that security reliance is not placed solely on the system, and that the system and resulting images are used only in compliance with comprehensive CLIENT policies and standard operating procedures. The CLIENT acknowledges and understands that the CLIENT is solely responsible for developing, implementing and maintaining appropriate security and privacy policies and operating procedures for the system(s) described in this Contract, and ensuring on-going compliance with them.

The CLIENT acknowledges and understands that the installation of after-market equipment in motor vehicles can compromise a vehicle's safety-related design characteristics, including but not limited to the following:

- Airbags, including but not limited to potential obstruction of airbag deployment;
- Passenger compartment, including but not limited to potential for ergonomic problems, physical obstacles, etc.
- Trunk/gas tank protection, including but not limited to the potential for trunk-mounted equipment to exacerbate tank vulnerability in a rear collision.

By agreeing to this Contract and to the performance contemplated thereby, the CLIENT expressly assumes the risks outlined above with respect to the equipment and the installation of said equipment hereunder. To this end, the CLIENT agreement on the mechanical placement of after-market, in-vehicle equipment during installation hereunder constitutes CLIENT's acceptance that these minimum safety requirements have been met, and that CLIENT installers has been judged capable by the CLIENT of repeating the acceptance criteria for the balance of the installations for the CLIENT.

COBAN shall bear no liability whatsoever for any claims, expenses, losses or costs relating to the safety of any equipment provided hereunder or the safety of any installations thereof.

COBAN shall bear no liability whatsoever for, and the CLIENT hereby fully, irrevocably and unconditionally release COBAN and its successors and assigns harmless from, any claims, expenses, losses, or costs relating to the CLIENT's use of the materials, system or services provided by COBAN hereunder, including any claims based on the content of any information captured on any video recorder provided hereunder. The CLIENT will be solely responsible for any and all such claims made against COBAN which are based on the CLIENT's use of the materials, system or services provided by COBAN hereunder.

The CLIENT acknowledges and agrees that COBAN's performance hereunder does not include any obligation to provide testimony or other evidence of any kind in any legal, regulatory, administrative or other proceeding excluding lawfully issued subpoenas issued by judge or court of law. In the event that COBAN is requested by the CLIENT to be the expert witness to provide testimony or any evidence of any kind in connection with its performance hereunder, whether required by the CLIENT or any other third party, the CLIENT agrees to pay COBAN's time and materials rates plus COBAN's actual expenses incurred in the provision of such testimony or evidence.

Appendix I: Required Valley Bureau Networking Information

Table 9, Required Valley Bureau Networking Information

	Devonshire	Foothill	Mission	North Hollywood	Topanga	Valley Traffic	Van Nuys	West Valley
Primary Server Name								
Primary Server IP								
Subnet								
Gateway								
WLC 1 Name								
WLC 1 IP								
AP IP Range								
DHCP Pool								
Switch (MDF) IP								
Switch (IDF) IP								
D-Link Station								
D-Link CHE								
Management IP								
Management GW								
Management Mask								

Appendix J: Fujitsu 10Gb Network Equipment

The Fujitsu 10Gb network equipment will be delivered to LAPD 3-4 weeks after the order is placed. It is intended that LA City ITA will install, configure, and test the components and the connection to the DICV equipment. Raytheon support is limited to network configuration on the DICV side.

Table 10, Fujitsu 10GB Network Equipment (BOM)

Part #	Description	Quantity
FC9686MXMM	XFP, 9.9-11.1G/ps, 850nm, MM	6
FC9686PS8A	8x10-GbE Ethernet Switch card	3

Appendix K: South Bureau Wireless Infrastructure Upgrade

The South Bureau wireless infrastructure shall be upgraded to be consistent with the equipment at the Central, West, and Valley Bureaus. The equipment shall be installed in a phased manor such that disruption to the operations of the live system are minimized. It is expected that coverage areas will be updated in stages so that continuous operation can be maintained.

The effort shall consist of two parts as follows:

- 1) Part 1: Period of Performance estimated 6/30/2016 – 10/07/2016 (13 weeks); Scope of effort includes South Bureau health assessment, repair of minor infrastructure problems including replacement of defective access points, and an engineering assessment of converting South Infrastructure to 802.11ac standard.
 - a. The health assessment will determine any immediate needed repairs to maintain operations and will include server assessment, switch assessment and access point assessment. A report will be generated and presented at the standing weekly meeting
 - b. Minor infrastructure repair will be based on the report generated in the health assessment and will include replacement of defective equipment, cabling update, configuration change as needed to get the site operational prior to the infrastructure update. Note that any equipment replaced will not be replaced again during the infrastructure update but may be moved to accommodate the new design
 - c. 802.11ac for South Bureau: A report will be generated towards the end of part 1 which details the pros and cons of converting the South Bureau infrastructure to 802.11ac including a ROM of potential cost and schedule impact.
- 2) Part 2: Period of Performance estimated as 3/31/2017 – 8/14/2017 (19.5 weeks). The effort will consist of updating each of the South Bureau divisions with the equipment used at the other LAPD bureaus. The site survey provided as part of the proposal will serve as the baseline for the effort. The system shall be set up consistent with the standards established during the West Bureau phase of the program (i.e. "Upload Anywhere", Failover to CHE, Wireless failover to CHE, etc...)

Raytheon shall develop cutover and test plans for each site to be presented to and agreed by LAPD. Testing will be done on an incremental basis per an agreed to test plan and each coverage area will be signed off by LAPD as complete. Note that a 20 car division wide upload test is not included in the scope of effort. The expected bill of material is indicated below in Table 11.

Table 11, BOM for South Bureau Wireless Upgrade

Part Number	Description	Quantity				Total
		77th	Harbor	SOW	SOE	
GL24WMS	Great Lakes 24" Wall Mount Cabinet (OR EQUIVALENT) -- 7219 Power Strip -- 7217WS Fan Assembly -- FFK1- Fan Filters	0	1	2	1	4
AIR-CAP-1532E-A-K9	Cisco 802.11n Outdoor AP w/ Ext Ant Ports (5YR SMARTNET)	14	16	15	10	55
AIR-ACC1530-PMK1	Cisco Wall mount kit for 153x Access Point	14	16	15	10	55
AIR-ANT2588P3M-N=	Cisco 8dBi dual band outdoor Patch Antenna	6	4	8	9	27
AIR-ANT2547V-N=	Cisco 7dBi dual band outdoor Omni Antenna	16	24	14	2	56
AIR-CT2504-15-K9	Cisco 2504 WLAN Controller 15 AP License (5YR SMARTNET)	1	1	1	1	4
AIR-CT2504-RMNT=	Cisco 2504 Controller Rack Mount Kit	1	1	1	1	4
WS-C3850-24P-S	Cisco Catalyst 3850 24 Port PoE IP Base (5YR SMARTNET)	4	4	6	4	18
PWR-C1-715WAC/2	715W AC Config 1 Secondary Power Supply	4	4	6	4	18
GLC-SX-MM=	Cisco SFP Gigabit Optical Transceiver	0	2	8	2	12
351831	TerraWave TWS-195 Antenna Cable, Nmale to Nmale 5' (Tesseco)	12	8	28	18	66
SCMIC-CHG10-Backoffice	Microphone Charging Bank	15	15	15	15	60
SYSTS-01-Backoffice	Tech Support Kit	1	1	1	1	4
BUPL-01-Back Office	Mobile HDD Up-Load Stand	2	2	2	2	8
Wir-11	Wired Reels	5	5	5	5	20

Appendix L: Acronyms

ARO	After Receipt of Order
ASCLD-LAB	American Society of Crime Lab Directors/Laboratory Accreditation Board
BOM	Bill of Material
CDR	Critical Design Review
CDRL	Contract Data Requirements List
CFE	Customer Furnished Equipment
CHE	City Hall East
CLETS	California Law Enforcement Telecommunications System
CS	Central Storage
DFS	Dynamic Frequency Selection
DICVS	Digital In-Car Video System
DR	Disaster Recovery
DVMS	Digital Video Management System
EIA	Electronic Industries Association
FCC	Federal Communications Commission
FSSR	Final System Sign Off Review
Gbps	Gigabits Per Second
HA	High Availability
ICV	In-Car Video
IEEE	Institute of Electrical and Electronic Engineers
IMS	Integrated Master Schedule
ITA	Information Technology Agency
ITB	Information Technology Bureau
LAN	Local Area Network
LAPD	Los Angeles Police Department
LS	Local Storage
LVN	Local Video Network
NHTSA	National Highway Transportation Safety Administration
PHS&T	Packaging, Handling, Storage and Transportation
PMR	Program Management Review
RFP	Request For Proposal
RFQ	Request for Quote
RMA	Return Merchandise Authorization
RTM	Requirements Traceability Matrix
SAE	Society of Automotive Engineers
SAN	Storage Area Network
SOW	Statement of Work
SSOW	Supplier Statement of Work
TBD	To Be Determined
TRR	Test Readiness Review
UL	Underwriters Laboratory
UPS	Uninterruptable Power Supply
WBS	Work Breakdown Structure

EXHIBIT 2

DELIVERABLE AND PAYMENT SCHEDULE – DICVS

Milestone Payment Schedule
(DICVS Valley and South Bureaus)

5/09/2016, Rev. B

No.	Deliverable Item	Payment Event	Quantity	Payment	Tax Rate	Taxes
1	Program Kick-off / Site Survey & BOM Review Accepted by LAPD (SOW Paragraphs 4.9.1, 4.9.2, 5.2.6) • Review of the DICVS Wired and Wireless Network Plan • Review of Bill of Material (for quantity and specification)	Design Acceptance	1	\$426,770.88	N/A	N/A
	Pre order of Division Equipment		See BOM	\$609,509.80	9.00%	\$54,855.88
2a	Valley/Traffic Division Product - 90% of Division vehicles installed, tested, and accepted (see SOW Vehicle BOM) - Back Office installation and testing complete (See SOW Back Office BOM) - Wireless Infrastructure installation and testing complete (See SOW Wireless BOM)	Installation & Division Acceptance	See BOM	\$609,509.80	9.00%	\$54,855.88
2b	Valley/Traffic Division Services - Division Test Readiness Review Complete - Division Test Procedure executed, results provided, and accepted	Division Acceptance	1	\$426,770.88	N/A	N/A
3a	Van Nuys Division Product - 90% of Division vehicles installed, tested, and accepted (see SOW Vehicle BOM) - Back Office installation and testing complete (See SOW Back Office BOM) - Wireless Infrastructure installation and testing complete (See SOW Wireless BOM)	Installation & Division Acceptance	See BOM	\$609,509.80	9.00%	\$54,855.88
3b	Van Nuys Division Services - Division Test Readiness Review Complete - Division Test Procedure executed, results provided, and accepted	Division Acceptance	1	\$426,770.88	N/A	N/A

Milestone Payment Schedule
(DICVS Valley and South Bureaus)

5/09/2016, Rev. B

No.	Deliverable Item	Payment Event	Quantity	Payment	Tax Rate	Taxes
4a	West Valley Division Product - 90% of Division vehicles installed, tested, and accepted (see SOW Vehicle BOM) - Back Office installation and testing complete (See SOW Back Office BOM) - Wireless Infrastructure installation and testing complete (See SOW Wireless BOM)	Installation & Division Acceptance	See BOM	\$609,509.80	9.00%	\$54,855.88
4b	West Valley Division Services - Division Test Readiness Review Complete - Division Test Procedure executed, results provided, and accepted	Division Acceptance	1	\$426,770.88	N/A	N/A
5a	North Hollywood Division Product - 90% of Division vehicles installed, tested, and accepted (see SOW Vehicle BOM) - Back Office installation and testing complete (See SOW Back Office BOM) - Wireless Infrastructure installation and testing complete (See SOW Wireless BOM)	Installation & Division Acceptance	See BOM	\$609,509.80	9.00%	\$54,855.88
5b	North Hollywood Division Services - Division Test Readiness Review Complete - Division Test Procedure executed, results provided, and accepted	Division Acceptance	1	\$426,770.88	N/A	N/A

Milestone Payment Schedule
(DICVS Valley and South Bureaus)

5/09/2016, Rev. B

No.	Deliverable Item	Payment Event	Quantity	Payment	Tax Rate	Taxes
6a	<p>Foothill Division Product</p> <ul style="list-style-type: none"> - 90% of Division vehicles installed, tested, and accepted (see SOW Vehicle BOM) - Back Office installation and testing complete (See SOW Back Office BOM) - Wireless Infrastructure installation and testing complete (See SOW Wireless BOM) 	Installation & Division Acceptance	See BOM	\$609,509.80	9.00%	\$54,855.88
6b	<p>Foothill Division Services</p> <ul style="list-style-type: none"> - Division Test Readiness Review Complete - Division Test Procedure executed, results provided, and accepted 	Division Acceptance	1	\$426,770.88	N/A	N/A
7a	<p>Devonshire Division Product</p> <ul style="list-style-type: none"> - 90% of Division vehicles installed, tested, and accepted (see SOW Vehicle BOM) - Back Office installation and testing complete (See SOW Back Office BOM) - Wireless Infrastructure installation and testing complete (See SOW Wireless BOM) 	Installation & Division Acceptance	See BOM	\$609,509.80	9.00%	\$54,855.88
7b	<p>Devonshire Division Services</p> <ul style="list-style-type: none"> - Division Test Readiness Review Complete - Division Test Procedure executed, results provided, and accepted 	Division Acceptance	1	\$426,770.88	N/A	N/A

Milestone Payment Schedule
(DICVS Valley and South Bureaus)

5/09/2016, Rev. B

No.	Deliverable Item	Payment Event	Quantity	Payment	Tax Rate	Taxes
8a	Mission Division Product - 90% of Division vehicles installed, tested, and accepted (see SOW Vehicle BOM) - Back Office installation and testing complete (See SOW Back Office BOM) - Wireless Infrastructure installation and testing complete (See SOW Wireless BOM)	Installation & Division Acceptance	See BOM	\$609,509.80	9.00%	\$54,855.88
8b	Mission Division Services - Division Test Readiness Review Complete - Division Test Procedure executed, results provided, and accepted	Division Acceptance	1	\$426,770.88	N/A	N/A
9a	Topanga Division Product - 90% of Division vehicles installed, tested, and accepted (see SOW Vehicle BOM) - Back Office installation and testing complete (See SOW Back Office BOM) - Wireless Infrastructure installation and testing complete (See SOW Wireless BOM)	Installation & Division Acceptance	See BOM	\$609,509.80	9.00%	\$54,855.88
9b	Topanga Division Services - Division Test Readiness Review Complete - Division Test Procedure executed, results provided, and accepted	Division Acceptance	1	\$426,770.88	N/A	N/A

Milestone Payment Schedule
(DICVS Valley and South Bureaus)

5/09/2016, Rev. B

No.	Deliverable Item	Payment Event	Quantity	Payment	Tax Rate	Taxes
10	<p>Valley Final System Sell Off Complete</p> <ul style="list-style-type: none"> • Review the deliverables of the project with the LAPD Project Manager • Deliverables are complete and adequately meet the City's needs as defined by the SOW • Confirm the system tests accurately meet the requirements as stated in the SOW • Raytheon provides a notice of System Completion for the DICVS, and certifies the following: • Raytheon certifies it has completed all work as included in this SOW, except for ongoing services such as Warranty, System Maintenance and Support services • All deliverables have been provided to the City and meet requirements in the SOW • All terms and conditions have been met 	System Acceptance	1	\$426,770.96	N/A	N/A
11a	<p>South Bureau Upgrade (SOW Appendix K) 77th Division</p> <ul style="list-style-type: none"> • Equipment Replaced per BOM • Division integrated and tested by contractor 	Installation & Division Acceptance	See BOM	\$66,492.31	9.00%	\$5,984.31
11b	<ul style="list-style-type: none"> • Functionality verified consistent with West Bureau • Incremental per area tests approved by LAPD 	Division Acceptance	1	\$340,773.38	N/A	N/A

Milestone Payment Schedule
(DICVS Valley and South Bureaus)

5/09/2016, Rev. B

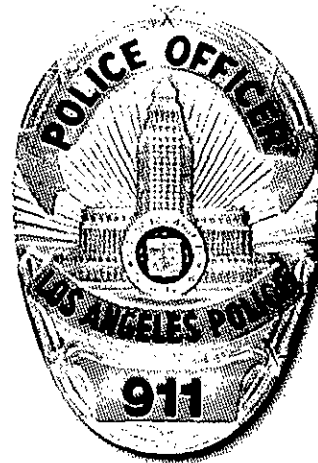
No.	Deliverable Item	Payment Event	Quantity	Payment	Tax Rate	Taxes
12a	South Bureau Upgrade (SOW Appendix K) Southeast Division • Equipment Replaced per BOM • Division integrated and tested by contractor	Installation & Division Acceptance	See BOM	\$66,492.31	9.00%	\$5,984.31
12b	• Functionality verified consistent with West Bureau • Incremental per area tests approved by LAPD	Division Acceptance	1	\$340,773.38	N/A	N/A
12a	South Bureau Upgrade (SOW Appendix K) Southwest Division • Equipment Replaced per BOM • Division integrated and tested by contractor	Installation & Division Acceptance	See BOM	\$66,492.31	9.00%	\$5,984.31
13b	• Functionality verified consistent with West Bureau • Incremental per area tests approved by LAPD	Division Acceptance	1	\$340,773.38	N/A	N/A
14a	South Bureau Upgrade (SOW Appendix K) Harbor Division • Equipment Replaced per BOM • Division integrated and tested by contractor	Installation & Division Acceptance	See BOM	\$66,492.31	9.00%	\$5,984.31
14b	• Functionality verified consistent with West Bureau • Incremental per area tests approved by LAPD	Division Acceptance	1	\$340,773.38	N/A	N/A
Sub Total				\$11,382,359.84		\$517,640.16
Contingency Monies				\$100,000.00		
Grand Total (with taxes)				\$12,000,000.00		

EXHIBIT 3

VALLEY BUREAU PRICE BREAKDOWN

DICV LAPD Valley Bureau Price Breakdown

May 09, 2016
Contract: C-123332



Prepared by
Raytheon Company
Intelligence, Information and Services
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1 INTRODUCTION

1.1 Cost Breakdown

This cost breakdown corresponds to the Bill of Material (BOM) found in the Statement of Work (SOW) for the Digital In-Car Video (DICV) system for the Los Angeles Police Department (LAPD) Valley Bureau and South Bureaus.

Raytheon IIS is providing this cost breakdown for informational purposes only. This cost breakdown does not constitute a price list. Our proposal is an integrated turnkey solution in which each element is part of a complex whole. Eliminating any item(s) from the program will not necessarily result in a reduction of price equal to the value cited in this cost breakdown; similarly, the customer cannot assume that it can purchase additional item(s) based on costs shown in this cost breakdown. Any increase or decrease in project scope will be carried out by mutual consent or as otherwise expressly stated in the contract.

Table 1, Valley Bureau Vehicle BOM (477 cars plus spares) / Installation (SOW Table 5)

Part #	Description	Qty	Unit Price	Extended	Tax (@9%)	Total
SYSED-03 SYSED-03-EDGESD	TopCam "EDGESD" - Monitor System Single Camera & Microphone 5.7" Touchscreen Monitor (Only provided for non-embedded display vehicles; Note that there are a planned 160 vehicles that will have embedded display) Intel® Atom™ Processor N2600 (1M Cache, 1.6 GHz) (Dual Core) 2GB RAM Windows Embedded Standard 7 Supports 802.11 a/b/g/n/ac Supports both G3 & G5 mic Internal Storage: Dual Drive (16GB OS drive and 64GB failsave drive) External Storage (RMSSD): 64GB Edge HiDef RMSSD HD or SD camera 2 USB 3.0 port Three Year Limited Hardware Warranty	477	\$ 7,482.00	\$ 3,568,914.00	\$ 321,202.26	\$ 3,890,116.26
N/A	Equipment Discount for Embedded Display	160	\$ (324.00)	\$ (51,840.00)	\$ (4,665.60)	\$ (56,505.60)
SCOPT-09 SCOPT-09-EDGE	Detached Wide Angle IR Camera (includes 1 - 12ft extension)	477				Included
SCPKD-DRA-0400	Dual Microphone Receiver Module (Secondary sync station)	477				Included
SCOPT-21 SCOPT-21-EDGE	Wireless - Dual Band 2.4 / 4.9 Vehicle Antenna (2 /vehicle for 802.11 N)	954				Included
SCOPT-14 SCOPT-14-EDGE	Visor Mount Ethernet Port	477				Included
SCMR-102 SCMR-102-EDGE	0.7x Wide Angle Adapter Lens	477				Included
SCPKB-DRA-0100	Package B (Transmitter)	477				Included
SCOPT-04 SCOPT-04-EDGE	Crash Sensor	351				Included
SCOPT-60	GPS	351				Included
C-TTB-CV-F-EDGE C-TTB-EG-EDGE	Havis Full Size Trunk Tray w/Bearing Havis Full Size Trunk Tray Radio Mount Mesh	317	\$ 442.00	\$ 140,114.00	\$ 12,610.26	\$ 152,724.26

Spare Units						
SYSED-03 SYSED-03-EDGESD	TopCam "EDGESD" - Monitor System Single Camera & Microphone 5.7" Touchscreen Monitor (Only provided for non-embedded display vehicles; Note that there are a planned 160 vehicles that will have embedded display) Intel® Atom™ Processor N2600 (1M Cache, 1.6 GHz) (Dual Core) 2GB RAM Windows Embedded Standard 7 Supports 802.11 a/b/g/n/ac Supports both G3 & G5 mic Internal Storage: Dual Drive (16GB OS drive and 64GB failsave drive) External Storage (RMSSD): 64GB Edge HiDef RMSSD HD or SD camera 2 USB 3.0 port Three Year Limited Hardware Warranty	25	\$ 7,482.00	\$ 187,050.00	\$ 16,834.50	\$ 203,884.50
SCOPT-09 SCOPT-09-EDGE	Detached Wide Angle IR Camera (includes 1 - 12ft extension)	25				Included
SCPKD-DRA-0400	Dual Microphone Receiver Module (Secondary sync station)	25				Included
SCOPT-21 SCOPT-21-EDGE	Wireless - Dual Band 2.4 / 4.9 Vehicle Antenna (2 /vehicle for 802.11 N)	50				Included
SCOPT-14 SCOPT-14-EDGE	Visor Mount Ethernet Port	50				Included
SCMR-102 SCMR-102-EDGE	0.7x Wide Angle Adapter Lens	50				Included
SCPKB-DRA-0100	Package B (Transmitter)	50				Included
SCOPT-04 SCOPT-04-EDGE	Crash Sensor	50				Included
SCOPT-60	GPS	50				Included

In-Car Services (Installation)						
LINST-01 LINST-01-EDGE	In-Car System Installation / Car	477	\$ 1,110.00	\$ 529,470.00	N/A	\$ 529,470.00
LINST-02 LINST-02-EDGE	In-Car Trunk Tray Installation / Car	477				Included
LSET-10 LSET-10-EDGE	Wireless Client Configuration	477				Included
LSERV-03 LSERV-03-EDGE	Project Management	477				Included
Coban In-Car Maintenance & Support						
WMAIN-110 WMAIN-110-EDGE	Coban DVMS In-Car License with 5 Yr Maintenance	502	\$ 720.00	\$ 361,440.00	\$ 32,529.60	\$ 393,969.60
WARR-E45 WARR-E45-EDGE	Edge 4th and 5th year Extended Hardware Warranty / System	502	\$ 1,146.00	\$ 575,292.00	\$ 51,776.28	\$ 627,068.28
WARR-001 WARR-001-6mo-EDGE	Coban 6 Months On Site Service / System	477	\$ 155.00	\$ 73,935.00	N/A	\$ 73,935.00
WARR-001 WARR-001-24/7-EDGE	24/7, 4hr Response Time, 2nd Day Resolution / System / year (hrs) (\$120x5years= \$600)	477	\$ 600.00	\$ 286,200.00	N/A	\$ 286,200.00

Table 2, Valley Bureau Wireless BOM (8 Divisions) (SOW Table 6)

Part #	Description	Qty	Unit Price	Extended	Tax (@9%)	Total
AIR-CAP-1532E-A-K9	Cisco 802.11n Outdoor AP w/ Ext Ant Ports (5YR SMARTNET - 24x7x4)	85	\$ 1,498.50	\$ 127,372.50	\$ 11,463.53	\$ 138,836.03
AIR-ACC1530-PMK1	Cisco Wall mount kit for 153x Access Point	85	\$ 53.46	\$ 4,544.10	\$ 408.97	\$ 4,953.07
AIR-ANT2588P3M-N=	Cisco 8dBi dual band outdoor Patch Antenna	63	\$ 512.46	\$ 32,284.98	\$ 2,905.65	\$ 35,190.63
AIR-ANT2547V-N=	Cisco 7dBi dual band outdoor Omni Antenna	44	\$ 161.46	\$ 7,104.24	\$ 639.38	\$ 7,743.62
AIR-CT2504-15-K9	Cisco 2504 WLAN Controller 15 AP License (5YR SMARTNET - 24x7x4)	0	\$ -	\$ -	\$ -	\$ -
AIR-CT2504-25-K9	Cisco 2504 WLAN Controller 25 AP License (5YR SMARTNET - 24x7x4)	2	\$ 9,339.30	\$ 18,678.60	\$ 1,681.07	\$ 20,359.67
AIR-CT2504-RMNT=	Cisco 2504 Controller Rack Mount Kit	16	\$ 51.30	\$ 820.80	\$ 73.87	\$ 894.67
WS-C3850X-24P-S	Cisco Catalyst 3850x 24 Port Switch (5YR SMARTNET - 24x7x4)	30	\$ 7,121.52	\$ 213,645.60	\$ 19,228.10	\$ 232,873.70
PWR-C1-715WAC/2	715W AC Config 1 Secondary Power Supply	30	\$ 540.00	\$ 16,200.00	\$ 1,458.00	\$ 17,658.00
GLC-SX-MM=	Cisco SFP Gigabit Optical Transceiver	40	\$ 270.00	\$ 10,800.00	\$ 972.00	\$ 11,772.00
3560GC-8PC-S	Cisco Catalyst 3560 8 Port PoE Switch (5YR SMARTNET - 24/7/4)	6	\$ 1,654.02	\$ 9,924.12	\$ 893.17	\$ 10,817.29
RCKMNT-19-CMPCT=	Cisco 19 inch Rackmount kit for 3560 Switch	6	\$ 40.50	\$ 243.00	\$ 21.87	\$ 264.87
318376	TerraWave TWS-195 Antenna Cable, Nmale to Nmale 3'	126	\$ 18.31	\$ 2,307.06	\$ 207.64	\$ 2,514.70
GL24WMS	Great Lakes 24" Wall Mount Cabinet -- 7219 Power Strip -- 7217WS Fan Assembly -- FFK1- Fan Filters	6	\$ 960.00	\$ 5,760.00	\$ 518.40	\$ 6,278.40

Table 3, Valley Bureau Back Office BOM (8 Divisions) (SOW Table 7)

Part #	Description	Qty	Unit Price	Extended	Tax (@9%)	Total
UPS UPS-Back Office	Dell UPS Rack, 1920W, 2U, 120V, with 5-20P to C19, 3m input cord (225-2386) Dell UPS External Battery Module, Rack, 72V, 2U, for 1920W UPS (312-2222) Basic Hardware Services: Business Hours (5X10) Next Business Day On Site Hardware Warranty Repair 4 Year Exten (933-1554) Dell Hardware Limited Warranty Initial Year (935- 2197) Dell Hardware Limited Warranty Extended Year(s) (938-8378) Basic Hardware Services: Business Hours (5X10) Next Business Day On Site Hardware Warranty Repair Initial Year (996-4610)	16	\$ 2,686.91	\$ 42,990.56	\$ 3,869.15	\$ 46,859.71
RACK RACK-Back Office	Rack Dell 4220 42U Rack with Doors and Side Panels Basic: Business Hours (5X10) Next Business Day Parts Delivery 4 Year Extended (987-9524) Basic: Business Hours (5X10) Next Business Day Parts Delivery Initial Year (992-5090) Dell Hardware Limited Warranty Extended Year (993-4108) Dell Hardware Limited Warranty Initial Year (993- 4117)	8	\$ 1,755.59	\$ 14,044.67	\$ 1,264.02	\$ 15,308.69
SCMIC-CHG10 SCMIC-CHG10-Back Office	Microphone Charging Bank	80	\$ 714.00	\$ 57,120.00	\$ 5,140.80	\$ 62,260.80
SYSTS-01 SYSTS-01-Back Office	Tech Support Kit	8	\$ 234.00	\$ 1,872.00	\$ 168.48	\$ 2,040.48
BUPL-01 BUPL-01-Back Office	Mobile HDD Up-Load Stand	16	\$ 300.00	\$ 4,800.00	\$ 432.00	\$ 5,232.00
WIR-11	CAT 5 w/ Retractable Cable Reel (Two per division)	16	\$ 690.00	\$ 11,040.00	\$ 993.60	\$ 12,033.60
Back Office License with Maintenance						
WMAIN-111 WMAIN-111-Back Office	5 Yr. DVMS Back Office Software Enterprise Maintenance / Station	8	\$ 6,750.00	\$ 54,000.00	\$ 4,860.00	\$ 58,860.00

Table 4, Fujitsu 10GB Network Equipment (BOM) (Table 10 from SOW)

Part #	Description	Qty	Unit Price	Extended	Tax (@9%)	Total
FC9686MXMM	XFP, 9.9-11.1G/ps, 850nm, MM	6	\$ 606.00	\$ 3,636.00	\$ 327.24	\$ 3,963.24
FC9686PS8A	8x10-GbE Ethernet Switch card	3	\$ 21,810.00	\$ 65,430.00	\$ 5,888.70	\$ 71,318.70
Non-taxable labor	Raytheon Supply Chain / Engineering	1	\$ 1,517.99	\$ 1,517.99	N/A	\$ 1,517.99

Table 5, Valley Bureau Raytheon and COBAN Services

Part #	Description	Qty	Unit Price	Extended	Tax (@9%)	Total
N/A	Raytheon & COBAN Management, Engineering, Installation, Travel & Test Services	1	\$ 3,376,585.84	\$ 3,376,585.84	N/A	\$ 3,376,585.84

Table 6, BOM & Services for South Bureau Wireless Upgrade (Table 11 from SOW)

Part #	Description	Qty	Unit Price	Extended	Tax (@9%)	Total
GL24WMS	Great Lakes 24" Wall Mount Cabinet (OR EQUIVALENT) -- 7219 Power Strip -- 7217WS Fan Assembly -- FFK1- Fan Filters	4	\$ 960.00	\$ 3,840.00	\$ 345.60	\$ 4,185.60
AIR-CAP-1532E-A-K9	Cisco 802.11n Outdoor AP w/ Ext Ant Ports (5YR SMARTNET)	55	\$ 1,498.50	\$ 82,417.50	\$ 7,417.58	\$ 89,835.08
AIR-ACC1530-PMK1	Cisco Wall mount kit for 153x Access Point	55	\$ 53.46	\$ 2,940.30	\$ 264.63	\$ 3,204.93
AIR-ANT2588P3M-N=	Cisco 8dBi dual band outdoor Patch Antenna	35	\$ 512.46	\$ 17,936.10	\$ 1,614.25	\$ 19,550.35
AIR-ANT2547V-N=	Cisco 7dBi dual band outdoor Omni Antenna	40	\$ 161.46	\$ 6,458.40	\$ 581.26	\$ 7,039.66
AIR-CT2504-25-K9	Cisco 2504 WLAN Controller 25 AP License (5YR SMARTNET)	1	\$ 9,339.30	\$ 9,339.30	\$ 840.54	\$ 10,179.84
AIR-CT2504-15-K9	Cisco 2504 WLAN Controller 15 AP License (5YR SMARTNET)	3	\$ 5,602.14	\$ 16,806.42	\$ 1,512.58	\$ 18,319.00
AIR-CT2504-RMNT=	Cisco 2504 Controller Rack Mount Kit	4	\$ 51.30	\$ 205.20	\$ 18.47	\$ 223.67
WS-C3850-24P-S	Cisco Catalyst 3850 24 Port PoE IP Base (5YR SMARTNET)	16	\$ 7,121.52	\$ 113,944.32	\$ 10,254.99	\$ 124,199.31
PWR-C1-715WAC/2	715W AC Config 1 Secondary Power Supply	16	\$ 540.00	\$ 8,640.00	\$ 777.60	\$ 9,417.60
GLC-SX-MM=	Cisco SFP Gigabit Optical Transceiver	8	\$ 270.00	\$ 2,160.00	\$ 194.40	\$ 2,354.40
351831	TerraWave TWS-195 Antenna Cable, Nmale to Nmale 5' (Tesesco)	70	\$ 18.31	\$ 1,281.70	\$ 115.35	\$ 1,397.05
South Bureau Wireless/Backoffice Services						
N/A	Raytheon & COBAN Management, Engineering, Installation, Travel & Test Services --Mic. Charging Bank (60) (SCPKE-DRA-0500) --Tech Support Kit (4) (SYSTS-01) --Mobile HDD Up-Load (8) (BUPL-01) --CAT5 w/Retractable Reel (20) (WIR-11)	1	\$ 1,363,093.51	\$ 1,363,093.51	N/A	\$ 1,363,093.51