County of Los Angeles
Sheriff's Department Headquarters
4700 Ramona Boulevard
Monterey Park, California 91754-2169

LEROY D. BACA, SHERIFF

December 2, 2003

The Honorable Board of Supervisors
County of Los Angeles
383 Kenneth Hahn Hall of Administration
Los Angeles, California 90012

Dear Supervisors:

ACCEPT A COOPERATIVE AGREEMENT FROM THE NATIONAL INSTITUTE OF JUSTICE AND APPROVE AN APPROPRIATION ADJUSTMENT FOR THE "XML-BASED EMERGENCY COMMUNICATION TECHNOLOGY (XBECT)" PROJECT (ALL DISTRICTS) (4 VOTES)

IT IS RECOMMENDED THAT YOUR BOARD:

1. Authorize the Sheriff to sign a cooperative agreement from the National Institute of Justice (NIJ) to help fund a project entitled, "XML-Based Emergency Communication Technology (XBECT)" and any amendments, including agreement term extensions, program amendments, modifications, and funding augmentations.

2. Approve an appropriation adjustment in the amount of $370,000.

PURPOSE/JUSTIFICATION OF THE RECOMMENDED ACTION

On September 30, 2003, the NIJ awarded a cooperative agreement of $370,000 under the "Fiscal Year 2003 NIJ Science and Technology Solicitation" program for a Sheriff's Department project entitled, "XML-Based Emergency Communication Technology (XBECT)" (Attachment). Seamless interoperability through instantly shared communication and collaborative emergency response among multi-jurisdictional agencies, the business and industry sectors, and community and faith-based organizations are essentials to public safety in the post-9/11 era. The XBECT project comprises the development of a prototype emergency

information exchange infrastructure using Public Safety Extensible Markup Language (XML) software, other emergency information technology, and the Internet for accelerating interoperability among public, police, fire, and medical critical incident responders. Accordingly, your Board is requested to authorize the Sheriff to enter into the cooperative agreement for the County of Los Angeles on your behalf, and to execute any amendments to the agreement that subsequently may be necessary, subject to review by the County Counsel and the Chief Administrative Officer.

Implementation Of County Strategic Plan Goals

The XBECT project meets the County Strategic Plan Goal for Service Excellence by contributing to the development of a unified approach to countywide emergency incident management. The project will demonstrate the application of standards and the latest technologies for replication nationwide.

FISCAL IMPACT/FINANCING

The XBECT project was not budgeted in the Sheriff's Department's Fiscal Year (Fiscal Year) 2003-04 Budget. Your Board is asked to approve the enclosed Request for Appropriation Adjustment equivalent to the awarded amount of $370,000. The NIJ will reimburse this amount during the 13-month extendable cooperative agreement term, to offset the costs of supplies and consultant services. The agreement term is June 1, 2003 to June 30, 2004.

FACTS AND PROVISIONS/LEGAL REQUIREMENTS

The NIJ, a component of the U.S. Department of Justice's Office of Justice Programs, provides technology assistance and funding through cooperative agreements with State and local criminal justice and public safety agencies.

The NIJ's cooperative agreement award for the XBECT project was reviewed and approved as to form by the County Counsel.

IMPACT ON CURRENT SERVICES (OR PROJECTS)

The XBECT project is expected to enhance the Sheriff's Department's emergency responder services, with no negative impact on any current projects anticipated.

CONCLUSION

Please instruct the Executive Officer-Clerk of the Board of Supervisors to return two copies of the adopted Board Letter to the Sheriff's Department. The Sheriff's Department's contact for the Board Letter is Karen J. Anderson, Manager, Grants Unit, Fiscal Administration. She may be reached at (323) 526-5408.

Respectfully submitted,

LEROY D. BACA
SHERIFF

ENCLOSURE

REQUEST FOR APPROPRIATION ADJUSTMENT

76R 352M 11/83

BOARD OF SUPERVISORS OFFICIAL COPY

COUNTY OF LOS ANGELES

REQUEST FOR APPROPRIATION ADJUSTMENT

DEPT'S. No. 770

DEPARTMENT OF SHERIFF

NOVEMBER 3, 19 2003

AUDITOR-CONTROLLER.

THE FOLLOWING APPROPRIATION ADJUSTMENT IS DEEMED NECESSARY BY THIS DEPARTMENT. WILL YOU PLEASE REPORT AS TO ACCOUNTING AND AVAILABLE BALANCES AND FORWARD TO THE CHIEF ADMINISTRATIVE OFFICER FOR HIS RECOMMENDATION OR ACTION.

ADJUSTMENT REQUESTED AND REASONS THEREFOR

– 4 VOTES –

	SOURCES	USES
	SHERIFF'S DEPARTMENT REVENUE - FEDERAL A01 - SH - 15687 - 9001 $370,000	SHERIFF'S DEPARTMENT SERVICES & SUPPLIES A01 - SH - 15687 - 2000 $370,000
TOTAL	$370,000	$370,000

JUSTIFICATION: Appropriation adjustment offset by federal funding from a National Institute of Justice (NIJ) cooperative agreement award # 2003-IJ-CX-K008 to purchase software, hardware, consultant services, travel cost, and miscellaneous fees for the XML-Based Emergency Communication Technology (XBECT) demonstration project. The project aims to accelerate inter-operability and emergency management among first responders.

Glen Dragovich,

Asst. Director, Financial Programs, ASD

CHIEF ADMINISTRATIVE OFFICER'S REPORT

REFERRED TO THE CHIEF ADMINISTRATIVE OFFICER FOR— ACTION

RECOMMENDATION

AUDITOR-CONTROLLER BY

No. 19

APPROVED AS REQUESTED AS REVISED

19

CHIEF ADMINISTRATIVE OFFICER

APPROVED (AS REVISED): 19

BOARD OF SUPERVISORS

BY

Los Angeles County Chief Administrative Office
Grant Management Statement for Grants Exceeding $100,000

Department LOS ANGELES COUNTY SHERIFF'S DEPARTMENT

Grant Project Title and Description: XML-Based Emergency Communication Technology (XBECT)

A demonstration project that comprises the development of a replicable interfaced high-technology communication prototype system for collaborative emergency response and crisis management.

Funding Agency	**Program** (Fed. Grant # /State Bill or Code #)	**Grant Acceptance Deadline**
National Institute of Justice	Fed Grant# 2003-IJ-CX-K008; CFDA#16-560	Board's Action Date

Total Amount of Grant Funding: $370,000 **County Match Requirments:** -- 0 --
Grant Period: 13 months **Begin Date:** 06/01/2003 **End Date:** 06/30/2004
Number of Personnel Hired Under This Grant: **NONE** **Full Time:**

Obligations Imposed on the County When the Grant Expires

Will all personnel hired for this program be informed this is a grant-funded program? Yes____ No____

Will all personnel hired for this program be placed on temporary ("N") items? Yes ____No____

Is the County obligated to continue this program after the grant expires? Yes ____ No_X__

If the County is not obligated to continue this program after the grant expires, the Department will:
a). Absorb the program cost without reducing other services Yes __X__ No____

b).. Identify other revenue sources Yes _____ No____

(Describe)_____

c). Eliminate or reduce, as appropriate, positions/program costs funded by the grant. Yes ____ No____

Impact of additional personnel on existing space: None.

Other requirements not mentioned above: None

Department Head Signature_____ **Date**_____

LEROY D. BACA

ATTACHMENT

NIJ AWARD NOTIFICATION DATED SEPTEMBER 30, 2003

COOPERATIVE AGREEMENT NUMBER 2003-IJ-CX-K008

1192

U.S. Department of Justice

Office of Justice Programs

National Institute of Justice

Office of Justice Programs

Washington, D.C. 20531

September 30, 2003

Sheriff Leroy D. Baca
Los Angeles County Sheriff's Department
4700 Ramona Boulevard
Monterey Park, CA 91754-2169

Dear Sheriff Baca:

I am pleased to inform you that the Office of Justice Programs has approved the application for funding under the NIJ Science and Technology Solicitation FY 2003 in the amount of $370,000 for Los Angeles County Sheriff's Department. This funding is for the project entitled "XML Based Emergency Communication Technology (XBECT)."

Enclosed you will find the Grant Award and Special Conditions documents. This award is subject to all administrative and financial requirements, including the timely submission of all financial and programmatic reports, resolution of all interim audit findings, and the maintenance of a minimum level of cash-on-hand. Should you not adhere to these requirements, you will be in violation of the terms of this agreement and the award will be subject to termination for cause or other administrative action as appropriate.

If you have questions regarding this award, please contact:

- Program Questions, Martin Novak, Program Manager at (202) 616-0630; and
- Financial Questions, the Office of the Comptroller, Customer Service Center (CSC) at (800) 458-0786, or you may contact the CSC at askoc@ojp.usdoj.gov.

Congratulations, and we look forward to working with you.

Sincerely,

Sarah V. Hart

Sarah V. Hart
Director, National Institute of Justice

cc: Deborah Daniels

Enclosures

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS

National Institute of Justice

Cooperative Agreement

PAGE 1 OF 5

1. RECIPIENT NAME AND ADDRESS (Including Zip Code)

Los Angeles County Sheriff's Department
4700 Ramona Boulevard
Monterey Park , CA 91754-2169

4. AWARD NUMBER: 2003-IJ-CX-K008

5. PROJECT PERIOD: FROM 06/01/2003 TO 06/30/2004

BUDGET PERIOD: FROM 06/01/2003 TO 06/30/2004

6. AWARD DATE 09/30/2003

7. ACTION: Initial

1A. GRANTEE IRS/VENDOR NO.

956000927

8. SUPPLEMENT NUMBER

9. PREVIOUS AWARD AMOUNT: $ 0

3. PROJECT TITLE

NIJ Science and Technology Solicitation FY 2003

10. AMOUNT OF THIS AWARD: $ 370,000

11. TOTAL AWARD: $ 370,000

12. SPECIAL CONDITIONS

THE ABOVE GRANT PROJECT IS APPROVED SUBJECT TO SUCH CONDITIONS OR LIMITATIONS AS ARE SET FORTH ON THE ATTACHED 4 PAGE(S).

13. STATUTORY AUTHORITY FOR GRANT

This project is supported under Omnibus Crime Control and Safe Streets Act

15. METHOD OF PAYMENT

PAPRS

[redacted] AGENCY APPROVAL [redacted]

16. TYPED NAME AND TITLE OF APPROVING OJP OFFICIAL

Sarah V. Hart
Director, National Institute of Justice

17. SIGNATURE OF APPROVING OJP OFFICIAL

Sarah V. Hart

[redacted] GRANTEE ACCEPTANCE [redacted]

18. TYPED NAME AND TITLE OF AUTHORIZED GRANTEE OFFICIAL

Leroy D. Baca
Sheriff

19. SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL

19A. DATE

[redacted] AGENCY USE ONLY [redacted]

20. ACCOUNTING CLASSIFICATION CODES

FISCAL YEAR	FUND CODE	BUD. ACT.	OFC.	DIV. REG.	SUB.	POMS	AMOUNT
X	B	LT	60	00	00		370000

21. LT03S00039

OJP FORM 4000/2 (REV. 5-87) PREVIOUS EDITIONS ARE OBSOLETE.

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS

National Institute of Justice

AWARD CONTINUATION SHEET

Cooperative Agreement

PROJECT NUMBER 2003-IJ-CX-K008 AWARD DATE 09/30/2003

SPECIAL CONDITIONS

1. The recipient agrees to comply with the financial and administrative requirements set forth in the current edition of the Office of Justice Programs (OJP) Financial Guide.

2. The recipient acknowledges that failure to submit an acceptable Equal Employment Opportunity Plan (if recipient is required to submit one pursuant to 28 C.F.R. Section 42.302), that is approved by the Office for Civil Rights, is a violation of its Certified Assurances and may result in suspension or termination of funding, until such time as the recipient is in compliance.

3. The recipient agrees to comply with the organizational audit requirements of OMB Circular A-133, Audits of States, Local Governments, and Non-Profit Organizations, as further described in the current edition of the OJP Financial Guide, Chapter 19.

4. The award recipient shall provide all products specified in the proposal. In addition, the recipient will comply with the following requirements.
Ninety (90) days prior to the end of the project period, the recipient shall submit to NIJ the following grant products:
(a) An original and three unbound copies of a Draft Final Technical Report. The Draft Final Technical Report shall describe the project's activities in sufficient detail to permit replication of the design, including a review of relevant literature, methods including detailed description of data collection and analysis procedures, modifications to or problems with the original research design, findings, and conclusions.
(b) An original and three copies of a 2,500 to 4,000 word Draft Summary suitable for publication and/or dissemination which describes results, findings and conclusions from the project including implications for criminal justice operations.
(c) A Draft 400 word Abstract. The abstract should serve as a succinct and accurate description of the project. Research goals and objectives, research design, and methods for achieving the goals and objectives should be concisely described. The abstract should include statement of purpose, description of research subjects, methods, results and conclusions.
The Draft Final Technical Report, Abstract and Summary will, with few exceptions, be submitted to peer review. The recipient shall be responsive to peer reviewers' comments and other issues raised in the review and understand that the review process has implications with respect to publication and dissemination decisions made by NIJ. The recipient shall make appropriate revisions to these documents based on the reviewers? comments and/or any comments from NIJ.

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS
National Institute of Justice

AWARD CONTINUATION SHEET
Cooperative Agreement

PROJECT NUMBER 2003-IJ-CX-K008 AWARD DATE 09/30/2003

SPECIAL CONDITIONS

5. The Recipient agrees to comply with all Federal, State, and local environmental laws and regulations applicable to the development and implementation of the activities to be funded under this award. Categorical Exclusions: Based upon the information provided by the Recipient in its application for these funds, NIJ has determined and the Recipient understands that the proposed activities meet the definition of a categorical exclusion, as defined in the Department of Justice' Procedures for Implementing the National Environmental Policy Act found at 28 CFR Part 61. A categorical exclusion is an action that because of the proposed activities' very limited and predictable potential environmental impacts, both on an individual and a cumulative basis, does not have a significant impact on the quality of the human environment. Consequently, no further environmental impact analysis is necessary under the requirements of the National Environmental Policy Act, 42 U.S.C. 4321, for these categorically excluded activities. Modifications: Throughout the term of this award, the Recipient agrees that for any activities that are the subject of this categorical exclusion, it will inform NIJ of any change(s) that it is considering making to the previously assessed activities that may be relevant to the environmental impacts of the activities. The Recipient will not implement a proposed change until NIJ, with the assistance of the Recipient, has completed any applicable environmental impact review requirements necessitated by the proposed change and NIJ has concurred in the proposed change. This approval will not be unreasonably withheld as long as any requested modification(s) is consistent with eligible program purposes and found acceptable under an NIJ conducted environmental impact review process.

6. The National Institute of Justice (NIJ) has elected to enter into a Cooperative Agreement rather than a Grant. This decision is based on NIJ's programmatic responsibilities to assist and coordinate projects that deal with technology development and assessment. The Recipient agrees to provide information as requested by the Office of Justice Programs related to performance, such as, but not limited to, meeting performance specifications; developmental decision points; changes in project scope or personnel; and/or coordination of related projects.
In meeting programmatic responsibilities, NIJ and the Recipient will be guided by the following principle: responsibility for the conduct of this research rests with the Recipient in accordance with the Recipient's proposal and the terms and conditions specified.
Where appropriate, the Recipient will act jointly with NIJ in accomplishing the following tasks:
a. Determination of the research design.b. Design of data collection instruments.c. Determination of sites for research.
Data collection, analysis, and interpretation of data and analyses are the responsibility of the Recipient.

7. To assist in information sharing, the grantee shall provide the grant manager with a copy of all interim and final reports and proposed publications (including those prepared for conferences and other presentation) resulting from this agreement. Submission of such materials prior to or simultaneous with their public release aids NIJ in responding to any inquiries that may arise. Any publications (written, visual, or sound)-excluding press releases and newsletters-whether published at the grantee's or government's expense, shall contain the following statement: This project was supported by Grant No. (insert number here) awarded by the National Institute of Justice, Office of Justice Programs, US Department of Justice. Points of view in this document are those of the author and do not necessarily represent the official position or policies of the US Department of Justice.
NIJ defines publications as any planned, written, visual or sound material substantively based on the project, formally prepared by the grant recipient for dissemination to the public.

8. The applicant budget is pending review or approval. The recipient may not obligate, expend or draw down any grant funds until the Office of the Comptroller, Office of Justice Programs has issued clearance of the application budget, and a Grant Adjustment Notice has been issued removing this special condition.

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS
National Institute of Justice

AWARD CONTINUATION SHEET
Cooperative Agreement

PROJECT NUMBER 2003-IJ-CX-K008 AWARD DATE 09/30/2003

SPECIAL CONDITIONS

9. The recipient agrees to submit a final report at the end of this award documenting all relevant project activities during the entire period of support under this award. This report will include detailed information about the project(s) funded, including, but not limited to, information about how the funds were actually used for each purpose area, data to support statements of progress, and data concerning individual results and outcomes of funded projects reflecting project sucesses and impacts. The final report is due 120 days following the close of this award period or the expiration of any extension periods. Recipient shall submit an original and one copy of the report.

10. The recipient shall submit semiannual progress reports. Progress reports shall be submitted within 30 days after the end of the reporting periods, which are June 30 and December 31, for the life of the award. These reports will be submitted in an original and one copy, and mailed to the same address indicated in the Special Condition regarding Financial Reports.

11. The recipient agrees to submit quarterly financial reports on Standard Form SF 269A. These reports will be submitted within 45 days after the end of the calendar quarter, and a final report is due 120 days following the end of the award period. The reports shall be submitted to the Office of Justice Programs, Office of the Comptroller, Attn: Control Desk, Room 5303, 810 7th Street, N.W., Washington, D.C. 20531.

12. Recipient acknowledges that the Office of Justice Programs reserves a royalty-free, non-exclusive, and irrevocable license to reproduce, publish, or otherwise use, and authorize others to use, for Federal government purposes: (1) the copyright in any work developed under an award or subaward; and (2) any rights of copyright to which a recipient or subrecipient purchases ownership with Federal support.

13. (1) Recipient agrees that if recipient, or a subrecipient of this award, produces patentable items, patent rights, processes, or inventions, in the course of work sponsored by the Federal funds under this award, or under a subaward, such facts must be promptly and fully reported to the Office of Justice Programs.(2) Unless recipient and OJP otherwise negotiate and agree, recipient acknowledges that OJP shall determine (1) whether protection on the invention or discovery shall be sought; and (2) how OJP's rights in the invention or discovery (including rights under any patents issued thereon) shall be allocated and administered in order to protect the public interest consistent with "Government Patent Policy" (President's Memorandum for Heads of Executive Departments and Agencies, dated August 23, 1971, and statement of Government patent policy, as printed in 36 Fed. Reg. 16839).

14. Recipient agrees that $14,996 will be withheld until the recipient submits a draft final research/technical report and this report is accepted by NIJ as meeting usual scientific standards for form and content. Approval will be provided through a Grant Adjustment Notice that will clear this special condition.

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS

National Institute of Justice

AWARD CONTINUATION SHEET

Cooperative Agreement

PROJECT NUMBER 2003-IJ-CX-K008 AWARD DATE 09/30/2003

SPECIAL CONDITIONS

15. The Recipient will provide to the National Institute of Justice(NIJ) software that fulfills all of the requirements of the statement of work. The Recipient agrees to sell this software to those agencies, organizations and political subdivisions mandated by NIJ. The National Institute of Justice (NIJ) shall have unlimited rights to duplicate and distribute the software for U.S. Government use and evaluation. The Recipient agrees that with respect to this software, NIJ has the right to require the Recipient to award a nonexclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances, and if the Recipient refuses such a request then the Federal agency has the right to award such a license itself if the Federal agency determines that such action is necessary to meet requirements for law enforcement use specified by NIJ in this award and such requirements are not reasonably satisfied by the Recipient, assignee or licensees, i.e., the Recipient is not selling the software at a reasonable cost. The Recipient shall have the right to sell the software to law enforcement agencies at a reasonable cost. The Recipient shall have the right to improve, substantially or cosmetically, the software produced in the performance of this award, provided that such improvement is not undertaken with funds provided by NIJ. These improvements may be sold separately to any organization at whatever cost the Recipient shall set. The Recipient shall have the right to sell printed, comprehensive manuals for the software or data produced in the performance of this award. The Recipient may supply to any organization technical support and assistance, at whatever cost the Recipient shall set. Subcontracting. The Recipient has the responsibility to obtain from its subcontractors all data and rights therein necessary to fulfill the Recipient's obligations to the Government under this award. If a subcontractor refuses to accept terms affording the Government such rights, the Recipient shall promptly bring such refusal to the attention of the NIJ Program Manager and not proceed with the subcontract award without further authorization from NIJ.

16. The recipient agrees to ensure that the State Information Technology Point of Contact receives written notification regarding any information technology project funded by this grant during the obligation and expenditure period. This is to facilitate communication among local and state governmental entities regarding various information technology projects being conducted with these grant funds. In addition, the recipient agrees to maintain an administrative file documenting the meeting of this requirement. For a list of State Information Technology Points of Contact, go to http://www.ojp.usdoj.gov/ec/states.htm.

17. Grantee agrees to comply with the requirements of 28 C.F.R. Part 46 and all Office of Justice Programs policies and procedures regarding the protection of human research subjects, including obtainment of Institutional Review Board approval, if appropriate, and subject informed consent.

18. Grantee agrees to comply with all confidentiality requirements of 42 U.S.C. section 3789g and 28 C.F.R. Part 22 that are applicable to collection, use, and revelation of data or information. Grantee further agrees, as a condition of grant approval, to submit a Privacy Certificate that is in accord with requirements of 28 C.F.R. Part 22 and, in particular, section 22.23.

19. OJP reserves the right to require new criminal justice information sharing initiatives using OJP grant funds to use pertinent justice XML data standards as supported by the Global Advisory Committee. The justice XML data standards can be found in the Justice Standards Clearinghouse at www.it.ojp.gov/jsc.

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS

National Institute of Justice

GRANT MANAGER'S MEMORANDUM, PT. I: PROJECT SUMMARY

Cooperative Agreement

PROJECT NUMBER
2003-IJ-CX-K008

This project is supported under Omnibus Crime Control and Safe Streets Act

1. STAFF CONTACT (Name & telephone number)

Martin Novak
(202) 616-0630

2. PROJECT DIRECTOR (Name, address & telephone number)

Michelle A. Day
Grants Coordinator
4700 Ramona Boulevard
Monterey Park , CA 91754-2169
(323) 526-5212

3a. TITLE OF THE PROGRAM

NIJ Science and Technology Solicitation FY 2003

3b. POMS CODE (SEE INSTRUCTIONS ON REVERSE)

4. TITLE OF PROJECT

NIJ Science and Technology Solicitation FY 2003

5. NAME & ADDRESS OF GRANTEE

Los Angeles County Sheriff's Department
4700 Ramona Boulevard
Monterey Park , CA 91754-2169

6. NAME & ADRESS OF SUBGRANTEE

7. PROGRAM PERIOD

FROM: 06/01/2003 TO: 06/30/2004

8. BUDGET PERIOD

FROM: 06/01/2003 TO: 06/30/2004

9. AMOUNT OF AWARD

$ 370,000

10. DATE OF AWARD

09/30/2003

11. SECOND YEAR'S BUDGET

12. SECOND YEAR'S BUDGET AMOUNT

13. THIRD YEAR'S BUDGET PERIOD

14. THIRD YEAR'S BUDGET AMOUNT

15. SUMMARY DESCRIPTION OF PROJECT (See instruction on reverse)

The applicant proposes to develop a basic infrastructure for information exchange using XML technology. The project includes the development of an architectural framework for intra and inter-agency exchange of location data, Automated Vehicle Locator and GIS data, as well as video content using web services. The system will improve the response of multiple agencies to high profile incidents through greater accessibility to a broad array of content. It will possess a rich array of functionality including an intelligent GIS layer with a red-line markup capability integrated with video logging and analysis capabilities, the ability to tag content for accelerated indexing, searching, and automated processing, and a wireless component for remote accessibility. All of these resources will be accessible using a simple web client. The project plan details work to be conducted with outside agencies such as the FBI, California Highway Patrol, the Federal Police, INS, etc.

in strategizing, crafting an architectural framework, and developing system interfaces. The end product will be a complete prototype system, which will serve as a valuable operational test bed from which numerous best practices may be derived.

CAVNCF

XML-BASED EMERGENCY COMMUNICATION TECHNOLOGY (XBECT)
Emergency Communication Technology for Interoperability at Critical Incident Sites

Abstract

This proposal outlines new approaches to support emergency communication for responders whose collaboration could benefit by exchanging richer incident information. It will demonstrate the utility of emerging Public Safety Extensible Markup Language (XML) standards and how they can be used to provide interoperability and inter-connectivity to improve services among those interacting with the law enforcement community.

We hope to utilize research advances in Internet and communication technology to address the specific needs of law enforcement. XML has the potential to improve our efficiency and effectiveness, and to accomplish this goal we need to deploy and assess concrete applications using real emergencies. We need to educate leaders who shape future technology environments by enhancing their awareness of strategic architecture and planning issues, and informing them of technological resources available.

We propose to: (1) create computer systems capable of providing new linkages and an infrastructure for rapidly responding to threats to survival, which can serve as a test bed and model for broader use; (2) obtain technical assistance on adopting XML technology; (3) improve methods of wireless mobile emergency communication, providing more usability and richer data, including putting maps, architectural drawings, aerial photos, video, and dynamic "redline markup" linked to databases in the hands of

responders protecting "high risk" sites; (4) conduct action research in a field setting on how these systems can provide increased "situation awareness," reduced response times, and greater safety to officers and the public; and (5) understand the strengths and weaknesses of these tools, and educate leaders on the tools applicabilities.

Our methodology is to utilize research on human factors, technology, failure analysis, and to deploy our prototype models using public-private collaboration with advisors including representatives of the Los Angeles Police Department (LAPD), California Highway Patrol (CHP), the Federal Bureau of Investigation (FBI), and leaders in technology. We drew upon Exponent Inc., Intel Corporation, partners in a National Mayday Readiness Initiative, the Communications for Coordinated Assistance and Response to Emergencies (ComCARE Alliance), United States Department of Transportation (USDOT), Association of Public Safety Communication Officials (APCO) International's Project 36 Interoperability Guidelines, and the Open Graphics Consortium's Geography Extensible Markup Language Specification. We plan to adopt ComCARE's Automated Crash Notification XML Specification to link Public, Police, Fire, and Medical responders. By developing and applying open standards and the latest technologies for public safety communication and emergency response, we can meet the future collaboration challenges more efficiently and effectively.

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TECHNICAL NARRATIVE

I. Nature of the Problem

A. There is a need to redesign the architectural framework for information sharing in order to provide both functional and semantic interoperability between public safety, other responders, and involved parties. There is a need to re-examine the systems and interfaces between agencies (i.e. radio, optical signals, protocols, data syntax, and data format) and see where they can be enhanced using advanced Internet technologies such as the XML family of technology. In light of the elevated risks that we face following the events of 9/11/2001, as well as risks posed by natural disasters, we need to find ways to enhance our communication infrastructure and to be able to collaborate more effectively to formulate rapid and effective responses to threats to survival. In our state and many others, we have seen the benefits of Amber Alert systems with rapid dissemination and collection of information in response to a time-critical incident such as child abductions. However, we still don't harness the power of using XML-tagged data to increase the ability to process and access useful facts within these messages. Imagine the ability to tag any phrase involving "MO" within a message narrative and having key elements of a message indexed, searchable, and able to trigger further action by manual or automated systems. Imagine also having the ability to pipe emergency information two ways to multiple agents and provide remote functional processing by sharing computations from application to application via "web services." XML makes this possible.

B. Short term, there is an opportunity to use XML-tagged data and schemas to translate, convert, and provide two-way links between systems. New Automated Vehicle Locator (AVL), E911 services for cell phones, which will contain Global Positioning information, combined with powerful Geographic Information Systems, Databases, and Internet-based content management tools, such as XML vocabulary, targeted to Public Safety should be able to provide significantly reduced response times, reduce risks, and produce more effective collaboration. However, most of our vehicles use outdated mobile digital terminals and no AVL.

C. Short term, there is a need to focus on political, financial, and administrative issues and to develop a consensus for agreement on critical information sharing and minimal standards that can be adopted and endorsed in a memorandum of understanding for members of a region. There is a need to reassess the use of inconsistent 10 codes and work towards reconciling or at least being able to translate their meaning for use across multiple agencies. There is a need to install a basic infrastructure for XML-based information exchange across multiple agencies responding to a critical incident. We have acquired and configured hardware and started prototyping. Now there is a need to move into a production mode. Using only existing funds, it can only be done on a very limited basis.

D. Long term, there is an opportunity to develop comprehensive standards for content and workflow as well as providing new tools, such as Shared Spectrum and Software Defined Radio, which also uses XML to define functionality.

E. In Los Angeles County, we have identified a need to demonstrate how XML can be used to enhance interagency communication and have begun research on human factors, failure analysis, and technology that can enhance emergency communication and have created a prototype Oracle 9iAS internet portal. We have identified a need to improve communication at two areas, which can be considered "high-profile sites," such as the Federal Building in West Los Angeles and Universal Studios in Universal City, California. We see a need to prove the viability of these concepts and to put better tools in the field where possible and are setting out to test these tools in actual work settings.

II. Goals and Objectives

The goals of this project are to: (1) develop an understanding of how to utilize advanced internet technology and human factors research to improve communication, man-machine interaction, decision-making, response to emergencies; and (2) to build tools that can support multiple agencies that need to interact to solve problems. The project is investigating XML-based computer, video, and telecommunication technologies from a law enforcement perspective and a prototype Internet portal has been constructed. The existing prototype can be directly applied to any Internet-linked mobile digital computer to support emergency communications by linking each other's Internet-based applications in

personally defined portal interfaces. This would begin the creation of the new architectural framework needed for interoperability.

We propose to demonstrate the feasibility and evaluate the strengths and weaknesses of these new technologies to support multi-agency communication and decision-making in emergencies by linking their web-based tools through a multi-agency portal. To do this we will efficiently and securely route messages and packets of information using a "standardized" public safety XML vocabulary and "standardized" geographic information to specific responders and affected individuals in the Los Angeles area.

The National Institute of Standards and Technology (NIST) compiled a review of standardization efforts to facilitate Public Safety Interoperability and Information Sharing (Pietrasiewicz, 2002). We believe that the 275 XML data elements that emerged from the reconciliation of the Rap Sheet Standards, Regional Information Sharing System (RISS), and Legal XML Court Filing specification can be utilized. We are also interested in using some or all of the elements defined in the Templar/Informant Software, which is successfully being utilized in the Automated Regional Information Sharing System (ARJIS) in San Diego, California. Los Angeles County has defined a potential "incident" schema, which has been presented as a model for the nation. This project will build upon those efforts and will further promote the use of XML standards and will show how XML can be utilized to provide richer incident information. Additionally, it will demonstrate

some specific hardware and software standards that can be applied to create intelligent and dynamic maps, forms, messages, incident "redline" markup, and video content and how other interagency communication can be integrated and routed over the internet through an "intelligent message broker" to support responders at critical incidents.

Our existing portal is configured to link an XML publishing environment with a relational database. It also has a rudimentary XML messaging system that illustrates how to use XML to provide Computer Aided Dispatch to Computer Aided Dispatch (CAD to CAD) messaging as specified in the APCO Project 36 guidelines. It is currently designed to demonstrate a working example of "intelligent/database linked" Adobe's PDF forms and can transfer data as entire documents or just XML-tagged data via e-mail. It contains a means to query and summarize the data using a handheld wireless personal digital assistant. Using this model, many forms could be built and data could be exchanged between many agencies. We can also currently process other complex data sources such as web sites or data feeds from a mobile biometric feedback source such as a "heart monitor." We have two servers, one in Denver, Colorado, and another in Los Angeles, California; however, it is only a prototype, and we do not have sufficient funding to license it for use in a production mode.

We have invested $110,000 in the research phase. This year we will take some of these ideas and techniques into a production mode deploying them at two (2)

high-profile sites. We are investing an additional $210,000 over the next two (2) years to deploy a small scale working XML-based 'Geographic Security Portal," an XML-based "intelligent message broker," and a few wireless mobile handhelds and tablet computers, which utilize and showcase this technology. It will enable us to begin to exchange rich emergency incident data, including architectural drawings, aerial photos, and layered maps through the internet for improved interaction between responders, multiple agencies, and affected individuals using cell phones, mobile computers, personal digital assistants, radio, pagers, e-mail, or web services.

This software will allow multi-agency interchange of XML-tagged Geographic Information and the ability to use a "redline" Extensible Markup Language and relate dynamic markup of maps, datasets, video, audio to database elements and intelligently route them through an XML-based message broker via the Internet.

The video logging and analysis component of this proposal can be a separate module and is not essential to the success; however, when XML is used with media analysis tools, a new level of storage, search, content editing, and access control is possible. The key benefit of the Geographic Security Portal is its ability to link information contained in a database about jurisdictions, their roads, their buildings, rooms, contact people, and present that information to multiple responders. Linking it and its meta data to a database or repository can enhance the utility of surveillance video and emergency incident video feeds. XML can help query files for relevant video segments or to tag which information is routed to other

responders. Features such as "text recognition" can enable automated triggers to call particular video content to the attention of responders and can enable incident commanders to leverage technology to help seek or assimilate video from multiple sources.

III. Approach

This proposal describes a series of specific ideas relating to the implications of a newly-emerging international standard called "XML." It can have strategic significance to every information-based activity within the Los Angeles County Sheriff's Department (LASD). It can be thought of as a way to provide "better lane markers" on the information highway. Many of us are already beginning to reap the benefits of this next generation of XML-enabled software products and services without even realizing it. XML is a universal information organizer. In simple terms, XML is an electronic document format and information management technology standard, which captures formatting, logical structure, and data. It augments HTML and database functionality by adding information about the meaning of the elements contained in a document, not just how to display it.

In order to evaluate and to increase the awareness of the advantages and disadvantages of utilizing XML and related technology, and demonstrate the applicability it can have for the production, storage, and dissemination of content for law enforcement information systems in the future and to construct a prototype that can be directly applied in mobile digital computers to support emergency communications, we have constructed a law enforcement portal using the Oracle 9i

Application Server, two Dell 1650 computers and Oracle 9i Relational Database Management System and created some prototype applications, which can be used over the internet to provide enhanced communication.

In the first phase of our project, we compiled an extensive review of literature by working with Exponent, Inc. Consultants on the Federal Building in Oklahoma City, Oklahoma; 9/11/2001 World Trade Center attack; and the United States Army Land Warrior program. We also worked with Dr. Ken Mazey, an expert in psychology of fear, by conducting field interviews about responding to critical incidents.

In the proposed project we plan to continue to research and deploy the prototype system that integrates an XML publishing environment with a content management system for documents and other data sources involved in emergency communications. This year, using Los Angeles County funds, we will add a functional Geographic Information Portal and an "intelligent message broker" software that uses XML. We need additional funds to deploy our Oracle-based Portal and to acquire Virage Video Logger and Distribution tools.

One distinguishing feature of our approach is that it will include analysis of mental models and errors in judgment, decision-making and communication, and will consider usability and effectiveness of these new tools, so we can begin to design improved man-machine interfaces for communication and problem-solving in emergency situations. The results of the "failure analysis" and emergency

decision-making research can be used to create improved and more realistic simulations for training in emergency situations. By teaching about reactions to threats and successful and unsuccessful decision-making scenarios, we can increase the quality of service and reduce accidents and liabilities.

We will also develop and provide a symposium on human factors in responding to threats to survival, emerging emergency communication technologies, and how public safety can utilize XML as a foundation for information sharing and interoperability in the future. The training and symposium will not be funded with this grant.

Another distinguishing feature of our approach is that we plan to utilize XML as a video content management tool and integrate relevant video with incident and geographical information. In 1999 the Office of Advanced Analytical Tools of the Central Intelligence Agency (CIA) demonstrated the capabilities of an "Intelligence Community Extensible Markup Language Prototype" and found that XML was well-suited for the management of intelligence content. A "U.S. intelligence agency" has used XML-enabled video content management systems to capture, catalog, and analyze events as they unfold and to support critical situation briefings for officials in the intelligence community around the world. The Cable News Network (CNN), FBI, The Harvard Business School, Lockheed Martin, and National Aeronautics and Space Administration (NASA) are also users of this video content management technology. We would like an opportunity to use Virage

Video capture, analysis, and distribution technology initially to support emergency response and eventually for all video applications.

IV. Task Breakdown

1. Strategy Stage
    a. Identify domain experts and contacts for Federal Building and Amusement Park (Universal Studios)
        i. Include contacts for Los Angeles County Fire Department
        ii. LASD West Hollywood Station
            1. Universal Studio Substation Detail
            2. Federal Building Detail
        iii. LASD Emergency Operations
        iv. LASD Communication and Fleet Management
        v. LASD Data Systems (Network, System Development, Management Information Systems (MIS) Details)
        vi. LAPD West Los Angeles
        vii. FBI West Los Angeles and Universal City
        viii. CHP – Los Angeles Dispatch
        ix. CHP Sacramento, web team
        x. CHP/State of California – Emergency Digital Information Service (EDIS) system
        xi. University of California, Los Angeles (UCLA) Campus Police
        xii. Federal Police

xiii. Immigration and Naturalization Service (INS)

xiv. School Police – Brentwood School Site

xv. Metropolitan Transit Authority

xvi. Universal Studios Private Security

xvii. Other stakeholders

b. Obtain permissions and necessary approvals of involved parties

c. Begin background checks on contractors

d. Begin procurement process for hardware, software, and contractors

e. Define boundaries for video content and management data

f. Define internet portal information requirements

g. Define Geographic Security Portal Functionality and select key XML schemas to be implemented

i. General Public Safety XML

ii. Rich Incident Data for Inter-Agency Communication XML Schema

iii. Video Content Analysis XML for Law Enforcement Schema

iv. Alert XML Schema (for Amber Alert or other broadcasts)

v. Automated Crash Notification Schema (See ComCARE model)

h. Define administrative approach to gain support for multi-agency XML

i. Draft proposal for a Memorandum of Understanding among Los Angeles area agencies

j. Report monthly to advisory panel

2. Analysis Stage

a. Define application functions for each area

b. Define information requirements and data structures to be used in database including definition of "rich incident data" (e.g.. Rich incident data includes "redline extensible markup" associated with location information and includes video feed, tagged meaning on key elements, etc.)

c. Define user interfaces

d. Define network and distributed data requirements

i. Define messages with LAPD

ii. Define messages with FBI

iii. Define messages with CHP

1. Create link to CHP incident data on their Internet site.

iv. Define messages with private security

e. Obtain architectural drawings for facilities in target areas

f. Obtain Environmental Systems Research Institute (ESRI) map data for facilities in target data

g. Report monthly to advisory panel

3. Design Stage

a. Develop prototypes and present to domain experts

b. Validate and check accuracy of models

c. Convert ESRI map data to open GML format for broader consumption

d. Report monthly to advisory panel

4. Build Stage

a. Code specific functions and messaging interfaces

b. Put evaluation computers in patrol cars

c. Put evaluation handheld computers in hands of officers

5. Transition Stage

a. Train personnel on use of tools

b. Test in simulated environment

c. Assess capabilities, strengths. and weaknesses

d. Revise and redesign as needed

e. Report monthly to advisory panel

6. Maintenance/Evaluation Stage

a. Monitor use in actual field setting

b. Prepare educational program for expansion to broader use

c. Report monthly to advisory panel and final report to National Institute of Justice

V. Milestones

1. Q3 2003 - Complete feasibility report and system strategy document
2. Assemble group of interested agencies
3. Q3 2003 - Compete detailed application requirements document
4. Q3 2003 - Complete detailed system design documentation
5. Q4 2003 - Complete system application
6. Q4 2003 - Train users
7. Q1 2004 - Deploy system in field
8. Q1 2004 - Evaluate in simulated environment

9. Q2 2004 - Evaluate in real field setting

10. Q2 2004 - Obtain agreement on XML standards for emergency communication among group of agencies

11. Q2 2004 - June 30, 2004, Complete final report

VI. Implications

This XML-based publishing environment could be used as architecture for future content management, advanced distributed learning technology, and emergency communications systems. This particular project will demonstrate applicability of XML-based tools for protecting government buildings, schools, and amusement parks. It will pave the way to building a more efficient and effective use of maps, databases, architectural drawings, and mobile computing devices to help emergency responders gain better "situation awareness" and more safely protect themselves and the public from threats to survival.

It can provide a bridge between systems and more effective access to information otherwise locked up in text and forms that aren't linked to databases. Using XML, we can build systems that are secure, private, scalable, sustainable, supportable, extensible, flexible, modular, open source, and standards-based. We hope to demonstrate that XML can eventually be used to "tag" many, if not all, communications, including forms, reports, transactions, radio, mobile digital device displays, teletype messages, multi-media data, and course content.

VII. Resumes

Exponent Failure Analysis Associates
5401 McConnell Avenue, Los Angeles, California 90066
310-823-2035
www.exponent.com
Douglas E. Young, Ph.D., Senior Managing Scientist

Exponent employs more than 185 Ph.D.-level scientists and engineers throughout a network of 18 regional offices. Multidisciplinary teams provide breadth and depth in more than 70 different disciplines unique to analyzing these types of threats. Specifically, Exponent has groups of environmental scientists and engineers, toxicologists, physicians, and epidemiologists (threats via water, food, and air), civil and structural engineers (susceptibility and protection of buildings, bridges, tunnels, dams, nuclear reactors, and industrial structures), mechanical and chemical engineers (facility and process protection), electrical engineers (protection of information systems), aeronautical engineers (evaluation of airborne threats), as well as, risk analysis and statistical experts (resource allocation).

Dr. Young addresses issues related to human performance, human factors, and ergonomics in accident analysis and prevention. His current research includes effectiveness of warnings, as well as the analysis of human error and its determinants, including information processing, perception, memory, attention, stress, and training. Dr Young is a professor in Kinesiology at the California State University in Long Beach, California, and was a research consultant with the Veterans Affairs Medical Center in Long Beach, California, and the Association of Scientific Advisors, Inc.

Exponent scientists evaluate human performance and safety in product and system use. Consultants study how the limitations and capabilities of people, including memory, perception, reaction time, judgment, physical size, and dexterity, affect the way they use a product or participate in an activity.

Exponent's Technology Development practice assists military clients to stay current with and benefit from rapidly evolving civilian technologies. By drawing on multidisciplinary engineering, testing, failure analysis, and prevention expertise, Exponent identifies and leverages the best in commercial off-the-shelf (COTS) technologies from the private sector to create integrated combat systems and modules cost effectiveness.

Virage Inc.
411 Borell Avenue, Suite 100 South, San Mateo, California 94402
Phone: 949-706-0114 fax: 949-706-0115
www.virage.com

Incorporated in 1995, Virage is a leading provider of video and rich communication software. Virage builds integrated rich media business solutions for corporations, government agencies, media, entertainment companies, and universities worldwide. Virage solutions allow content owners to efficiently digitize, manage, retrieve, and distribute video and other rich media assets for improved productivity, cost savings, and communications. Virage Solution Server, an XML-based software platform, enables easy access, sharing, management, and publishing of video and other rich media. Virage has offices throughout the United States and Europe. Virage technology is used in government by: Centers for Disease Control, Federal Bureau of Investigation (FBI), Library of Congress, National Aeronautics and Space Administration (NASA), Sandia National Labs, State of Iowa, United Nations, United States Army, United States Navy, United States Senate, Classified United States Government Agencies, as well as, National Intelligence Council of Peru (CNI).

TUSC
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Eric E. Linneman, Management Consultant
linnemane@tusc.com

TUSC is a world recognized expert in Oracle consulting. TUSC employees combined have authored more than 40 Oracle-based books for a number of publishers, including Oracle Press and Osborne/McGraw-Hill.

TUSC is an Oracle-Certified Partner for both technology and applications. In 2002 Mr. Linneman developed an internet portal demonstrating the use of XML-based technologies for the Los Angeles County Sheriff's Department. In 2002 TUSC was named Internet Platform Partner of the Year and also was honored with the Consultant of the Year by Oracle magazine. TUSC provides Oracle core technology classes in state-of-the-art training facilities in Chicago, Illinois, and Denver, Colorado.

Kelar Corporation
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Ed Maghboul, Vice President
Ed.maghboul@kelar.com

Mr. Maghboul has 19 years experience and in 1987 received a Bachelor of Science degree in Business Administration from National University, Los Angeles, California. Through him, Kelar provides a wide range of expertise including installing, supporting, and customizing hardware and software for CAD/GIS/CAFM Stations, Local Area Networks (LANs), and work stations, as well as, high-level technical support of clients, system assembly, and testing for local and remote locations. Mr. Maghboul manages the GIS Application Development Division and the Geographic Security Portal (GSP) application, as well as the AviSoft, an airport resource and tenant management application. He also heads existing projects with Massachusetts Port Authority (Massport) and Los Angeles World Airports (LAWA).

Intel
5200 N.E. Elam Young Parkway, Hillsboro, Oregon 97124-6461
503-677-6647
www.intel.com
Gary Haycox, Director Strategic Initiatives
Gary.s.haycox@intel.com

Mr. Haycox leads Intel's National Emergency Messaging System Initiative and is active in ComCARE Alliance, National Mayday Readiness Initiative, and Automated Crash Notification XML Committee. He works closely with support companies such as Autodesk for Geographic Information System Technology, Acuo for Intelligence Message Broker Tools, and Kelar's security application. Mr. Haycox provided volunteer consulting and also enlisted support for the Los Angeles County Sheriff's Department's Emergency Communication Project and planned symposium.

Autodesk
111 McInnis Parkway, San Rafael, California 94903
415-507-6231
www.autodesk.com
Peter Southwood, Territory Solutions Manager (Web and Mobile)

Autodesk is a member of the Open GIS Consortium. Their tools form an integral part of the move to open standards such as Geography Extensible Markup Language. Autodesk's Redline Extensible Markup Language will be used to convey rich dynamic incident data to patrol cars and handheld computers.

Wayne E. Clark, Data Systems Coordinator
Los Angeles County Sheriff's Department
11515 S. Colima Road, Bldg. F-114, Whittier, California 90604
562-946-7803
weclark@lasd.org

Mr. Clark joined the Los Angeles County Sheriff's Department in 1991 as a Technical Manager-Sheriff's Executive Support System Project and supervised a systems development group. He has planned and evaluated proposals, negotiated and reviewed performance of outside system integrators, vendors, and consultants. Mr. Clark has also performed systems design, hardware and software evaluation, systems administration, technical support, and training. He has nine (9) years experience as an administrator in Accounting and Administrative Computing at University of California, Los Angeles (UCLA). Mr. Clark attended a doctoral program in Education Administration and completed all coursework and written comprehensive exam towards a Ph.D. (1997) at UCLA. He holds a Masters of Arts in Education from the University of Michigan (1977). Mr. Clark also provided technical leadership for Emergency Communication Technology and Human Factors Research Project using XML for public safety.

Budget Narrative

A. PERSONNEL

Not Applicable

B. FRINGE BENEFITS

Not Applicable

C. TRAVEL

Not Applicable

D. EQUIPMENT

Not Applicable

E. SUPPLIES

Oracle Database and Internet Portal Software

This year we are going forward with deployment of a small scale interoperability and " Geographic Information Portal" and would like to be able to put the enterprise scale Oracle 9iAS portal into production and more wireless mobile computers into hands and cars of more people. It will still be small scale, but having these tools deployed at high-risk sites, and enabling many agencies to interact via XML-tagged messages over the Internet will be a major step forward in the LA area. These servers, database, portals and video analysis tools and "intelligent message brokers" can be scaled up and used by hundreds of agencies. As long as their responders have the needed authorization and Internet browser enabled devices and can translate XML based messages, they can access this system.

The Budget is designed to support four basic functions:

1. Video Capture and Analysis
2. Wireless and Building Security Technology and Failure Analysis
3. Oracle Database and Application Server Portal Consulting
4. Developing and implementing law enforcement specific XML vocabularies on the intelligent message broker server to process rich incident / Geographic Security Portal data

We are asking for funding to deploy the Oracle 9i database applications and Oracle 9iAS Portal in a production mode, to extend the number of handhelds to be put in the field at high risk sites to demonstrate this technology and to enhance the capability by including a video capture and analysis component.

We have used a "development licenses" to create a working database and portal. Oracle license costs are somewhat negotiable, but nevertheless are expensive. The total is estimated to be $51,000. To use the web portal in a production mode, we must license the software at a cost estimated to be $20,000 for the Oracle 9iAS Portal software. The database adds $15,000 for the "per CPU" license and 20 users licenses at $800 each. We are budgeting for a "standard edition" database and will upgrade to "enterprise edition" if Oracle will offer reduced pricing.

Ruggedized Handheld Computers

We plan on adding eight (8) handhelds at $2000 each for a total of $16,000 for ruggedized handheld computers. These will provide two-way communication between responders at the site of an incident. The specific type/model has not been determined. A basic Panasonic Toughbook 01 complies with MIL-STD810F testing for drop shock and moisture resistance and starts at $1,000. They also have "internally powered wireless communication support" but we have not selected a wireless vendor, and are assuming the wireless card is an extra cost so the exact model used and price may vary. If we can buy these for less, we would like to deploy more units.

Ruggedized Tablet Computers

We plan to acquire four (4) Ruggedized tablet computers and budgeted $5,000 each for use in patrol either carried or mounted in a patrol car. The Toughbook CF-18 Convertible is available in two (2) models- a Windows® XP Professional or Windows® 2000 PC notebook that converts to a tablet using standard pen extensions or proprietary Windows-compatible applications and a Windows® XP Tablet PC Edition-based notebook with a magnetically digitized display that converts to a 100 percent Tablet PC-compliant pen tablet. We want this feature so that a user can rest his/her hand on the screen while entering information.

These were selected to serve as possible replacements for the outdated mobile digital terminals in the patrol cars. They have improved human computer interface over traditional laptops. The digitized screen in the Tablet PC version allows users to incorporate handwritten input into Microsoft® Office applications, annotate documents imported from a server or other computer, instantly change screen views from portrait to landscape mode and use pen "gestures" to perform such functions as pointing, clicking, selecting, and dragging.

Other features integrated into the CF-18 Tablet PC Edition include handwriting-to-text conversion, speech recognition, and Microsoft® ClearType® technology for maximum text readability.

GSM/GPRS cards

We plan to acquire eight (8) to twelve (12) GSM/GPRS cards @ $400 to $500 each. The total proposed cost is 4,000 (for eight). We would like to purchase more if the price quote comes in lower. We previously tried CDPD cards and found the network to not meet the needs for patrol cars.

Global Positioning System Cards

We plan to use basic GPS cards such as those by Pharos. These will enable our application to automatically track the location of a responder and will alleviate the need to "call out" location over the radio. It can orient the responder to their location on a map and can describe the location to others more precisely than street addresses or narrative explanations. The estimated cost for twelve (12) at $200 each will be $2,400.

Video Capture and Analysis software

We began over a year ago, using volunteers who make up an advisory panel and are led by a few Los Angeles Sheriff's Department (LASD) staff who put together a request for funds from our County Quality and Productivity Commission and acquired hardware, software, and technical assistance from Exponent Inc., in Human Factors and Failure Analysis, from Dr. Ken Mazey, an expert in the psychology of Fear and TUSC, a leading Oracle Software Consulting firm who designed and configured the Oracle Portal and applications. Due do funding limitations, we were unable to include the video capture and analysis tools or links to a geographic information system.

We propose to show how XML can help manage and route video information. We have selected a suite of video software that can integrate video and indexed content to a database and be sent to others via the Internet. The total cost for the software is about $30,000. The hardware needed is described in the next two (2) sections. This was computed as follows: one (1) Video server is $6000, Video Logger, two (2) video capture tools at $4,500 each, two (2) Advanced Audio Speech Recognition at $4,500 each, two (2) Text Recognition at $3000 each, two (2) Face recognition software at $1,800 each, and two (2) Speaker identification software at $1,500 each.

Video capture and analysis computers

We are budgeting $20,000 for video computers. This would allow us to run two (2) "high-end" Pentium computers at $4,000 each for audio analysis and four (4)"moderately high-end" Pentium computers at $3,000 each for video capture and video analysis. We will need three (3) separate computers at each site (one (1) video capture, one (1) video analysis and one (1) audio analysis system). It is recommended that we use a Dual 900 MHz CPU and 512 to 1GB ram and a 10GB or larger disk drive to run the video software. We would run the video server software on some centrally accessible existing computer.

The vendor for video software has extended this project a discount of 70% off list price because this is a first time order and government research project. The other consultants are also willing to provide services at highly discounted rates.

Video Capture Cards

We are budgeting $18,000 for audio/video capture cards. The type of source video captured may be a camera, tape deck, or other video source that provides composite

digital, SDI or DV outputs via a BNC connector. To support a variety of video input needs, we need a variety of inputs on the streaming capture device.

We have chosen four streaming formats to be supported: we need common streaming formats (**RealVideo, Windows Media**) PLUS the MPEG (**MPEG-1 & MPEG-2**) capture and playback to be part of the digital video solution.

The ViewCast Corp. (http://www.viewcast.com) Osprey-2000 DV Pro is an example of the type of card that would provide these functions. We need two (2), one (1) for each location. The list price is about $4,500 each.

We will be running audio analysis and video analysis tools on separate computers.

Each will need audio or video capture cards. The price can range from $150 to $200 for basic models such as the Osprey 100 or 200 and SB Live Cards to 2200 for Osprey 500. We propose to test using lower cost cards then reserve money for return and upgrade to a more expensive model if needed. The cost would range from $800 for four cards to $8800 for the more expensive models.

Tax, Misc. Supplies and Freight

We are budgeting $ 15,000 for California tax (8.25%) and for shipping and miscellaneous supplies.

F. CONSTRUCTION

Not applicable

G. CONSULTANTS/CONTRACTS

Wireless Building Security Technology Consulting – We would like to enhance our knowledge of building security especially with regard to how XML-based data and wireless devices can be applied to help exchange information between multiple agencies. We have budgeted using federal rates (60 days at $450 per day). We are seeking a contractor who has experience in failure analysis relating to actual or potential attacks on federal building facilities and amusement parks. Experience evaluating and integrating commercial off-the-shelf technology for wireless mobile computing is also necessary. This service will serve both sites concurrently.

Database/Portal Consulting – We need a company with proven ability to rapidly implement Oracle 9i database and wireless 9iAS portal solutions. We have budgeted 120 days at $450 per day to help define and implement interfaces, database back ends and specific XML schemas which will be chosen and tailored to exchange public safety incident data over an "intelligent message broker" software and will have personalized links to selected internet sites. There will be some overlap (about 50%) serving both sites and some specific effort required (25%) for each site. We have used TUSC to create our

initial prototype portal and plan to consider supplemental work from them or someone similar, such as Oracle Corp. Consulting.

GIS/CAD/Facility/Intelligent Message /Telematic Consulting – We are seeking help from companies who have proven ability to rapidly implement XML-based map, XML-tagged drawings, and aerial images and are familiar with GIS data and Internet technology. We have estimated a need for 120 days of consulting at $450 per day, to create a GIS database for two (2) specific sites. Specifically, they will have to select and load map data, aerial views, and building floor plans. Expertise in architecture and facility management is an essential qualification. The Telematics consulting is required to assist in implementing our "Acuo Message Director" software with these two (2) specific sites. There will be some overlap serving both sites and some specific information for each site.

Video Software Support – We have budgeted $13,000 to have a software maintenance agreement and technical support contact for the video tools. We have also included $2,000 to provide basic training to two (2) video technicians.

Contracts – The County will be selecting a wireless Internet access provider capable of supporting patrol car communication requirements. The anticipated cost will be about $83 per person, multiplied by 12 users for 12 months.

Consultant Expenses – We anticipate that some of the consultants will be traveling from other parts of the country including Minnesota, Arizona, and Colorado. That would allow us to reimburse travel for up to 24 round trip airfares @ $301 each ($7,224). Also, budgeted is 171 days of lodging at $75.00 each ($12,825) and up to 171 days of meals at $29.00 per person per day, or ($4,959) for meals.

H. OTHER COSTS

Not applicable

I. INDIRECT COSTS

Not Applicable

BUDGET DETAIL WORKSHEET

Organization Name and State: Los Angeles County Sheriff's Department - California
ORI #: CA01900

A. Personnel

List each position by title and name of employer, if available. Show the annual salary rate and the percentage of time devoted to the project. Compensation paid for employees engaged in grant activities must be consistent with that paid for similar work within the applicant's organization.

Name/Position	Computation	Cost
N/A		
	TOTAL	$0

B. Fringe Benefits

Fringe benefits should be based on actual known costs or an established formula. Fringe benefits are for the personnel listed in budget category (A), and only for the percentage of time devoted to the project.

Name/Position	Computation	Cost
N/A		
	TOTAL	$0

C. Travel

Itemize travel expenses of project personnel by purpose (e.g., site visits, advisory group meetings). Show the basis of computation, including separate listing of travel costs, lodging and meals. Identify the location of travel if known.

Purpose of Travel	Location	Computation	Cost
N/A			
		TOTAL	$0

D. Equipment

List non-expendable items that are to be purchased. Non-expendable equipment is tangible property having a useful life of more than two years and an acquisition cost of $5,000 or more per unit. Expendable items should be included either in the "Supplies" category or in the "Other" category. Applicants should analyze the cost benefits of purchasing versus leasing equipment, especially high cost items and those subject to rapid technical advances. Rented or leased equipment costs should be listed in the "Contractual" category. Explain how the equipment is necessary for success of the project. Attach a narrative describing the procurement method to be used.

Item	Computation	Cost
N/A		
	TOTAL	**$0**

E. Supplies

List items by type (office supplies, postage, and expendable equipment items less than $5,000, such as books, hand-held recorders, etc.) and show the basis for computation. Generally, supplies include any materials that are expendable or consumed during the course of the project.

Supply Items	Computation	Cost
8 Ruggedized handheld computers	8 @ $2000	$16,000
8 GSM/ GPRS wireless access cards	8 @ $500	$ 4,000
4 Ruggedized tablet PC's	4 @ $4999	$20,000
12 Global Positioning System Cards	12 @ $200	$ 2,400
1 Oracle Internet Portal Software License	1 @ $20,000	$20,000
20 Oracle Database User Licenses	20 @ $800	$16,000
1 Oracle Database Processor License	1 @ $15,000	$15,000
Face Recognition software	2 @ 1,800	$ 3,600
Virage Speaker Identification Software	2 @ 1,500	$ 3,000
Professional Video Capture cards	6 @ $3,000	$18,000
2 video logger computers	2 @ $3,000	$ 6,000
2 encoding computers	2 @ $3,000	$ 6,000
2 audio/video analysis computers	2 @ $4,000	$ 8,000
Misc. Supplies, tax and freight		$15,000
2 Virage Video Logger Software	2 @ $4,500	$ 9,000
Virage Video Solution Server Software and Development tools	1 @ $6,000	$ 6,000

2 Virage Advanced Audio Speech Recognition software	2@ $4,500		$ 9,000
2 Virage Text Recognition software	2@ $3,000		$ 6,000
Video Logger Software Devt. Kit.			Free
Video Logger Oracle Database plug in			free
		TOTAL	**$183,000**

F. Construction

As a rule, construction costs are not allowable. In some cases, minor repairs or renovations may be allowable. Consult with the program office before budgeting funds in this category.

Purpose	Description of Work	Cost
N/A		
	TOTAL	**$0**

G. Consultants/Contracts

Consultant Fees: For each consultant enter the name, if known; service to be provided; hourly or daily fee (8-hour day); and estimated time on the project. Consultant fees in excess of $450 per day require additional justification.

Name of Consultant	Service Provided	Computation	Cost
Exponent, Inc.	Wireless/Building Security Technology Consulting	60 days x $450/day	$27,000
Oracle or TUSC	Database/Portal Consulting	120 days x $450/day	$54,000
Autodesk, Acuo and Kelar	GIS/CAD/Facility/ Intelligent Message/Telematics Consulting	120 days x $450/day	$54,000
Virage	Support/Video Software		$13,000
Virage	Training/Video tools	2 @ $1,000 each	$2,000
		SUBTOTAL	**$150,000**

Consultant Expenses: List all expenses to be paid from the grant to each individual consultant in addition to his/her fees (e.g., travel, meals, lodging).

Item	Location	Computation	Cost
Consultants to field Interviews advisory meetings and data /comm. center	Colorado Arizona Minnesota	24 trips x $301 each (airfare)	$7,224
System integration at client sites.	Los Angeles	171 days x ($75/lodging + $29/meals)	$17,784
		SUBTOTAL	**$25,000**

Contracts: Provide a description of the product or service to be procured by contract and an estimate of the cost. Applicants are encouraged to promote free and open competition in awarding contracts. A separate justification must be provided for sole source contracts in excess of $100,000.

Item	Computation	Cost
Contract to provide 12 users unlimited wireless GSM/GMRS Internet access	est. @ $83 per month x 12 users x 12 months	$12,000
	SUBTOTAL	**$12,000**
	TOTAL	**$187,000**

H. Other Costs

List items (e.g. rent, production, telephone, etc) by major type and the basis of the compensation.

Description	Computation	Cost
N/A		
	TOTAL	**$ 0**

I. Indirect Costs

If indirect costs are requested, a copy of the agency's fully executed, negotiated Federal Rate Approval Agreement must be attached. If the applicant's agency does not have an approved rate, one can be requested by contacting its Cognizant Federal Agency, which will review all documentation and approve a rate for the organization. Alternatively, if the applicant agency's accounting system permits, costs may be allocated in the direct cost categories.

Description	Computation	Cost
N/A		
	TOTAL	**$0**

Budget Summary

When you have completed the Budget Detail Worksheet, transfer the totals for each category to the spaces below.
Compute the total direct costs and the total project costs.

Budget Category		Amount
A.	Personnel	$ 0
B.	Fringe Benefits	$ 0
C.	Travel	$ 0
D.	Equipment	$ 0
E.	Supplies	$ 183,000
F.	Construction	$ 0
G.	Consultants/Contracts	$ 187,000
H.	Other Costs	$ 0
	Total Direct Costs	$ 370,000
I.	Indirect Costs	$ 0
	TOTAL PROJECT COSTS	**$ 370,000**

Federal Request	$ 370,000
Non-Federal Amount	$ 210,000

OMB No. 0999-0020
OMB No. 0925-0418
Approved for use through 1/31/2001

Protection of Human Subjects
Assurance Identification/Certification/Declaration
(Common Federal Rule)

Policy: Research Activities involving human subjects may not be conducted or supported by the Departments or Agencies adopting the Common Rule (56 CFR28003, June 18, 1991) unless the activities are exempt from or approved in accordance with the common rule. See Section 101(b) of the common rule for exceptions. Institutions submitting applications or proposals for support must submit certification or appropriate Institutional Review Board (IRB) review and approval to the Department or Agency in accordance with the common rule.

Institutions with an assurance of compliance that covers the research to be conducted on file with the Department or Agency, or the Department of Health and Human Services (HHS) should submit certification of IRB review and approval with each application or proposal unless otherwise advised by the Department or Agency. Institutions which do not have such an assurance must submit an assurance and certification of IRB review and approval within 30 days of a written request from the Department or Agency.

1. Request Type
- ☑ Original
- ☐ Follow-up
- ☐ Exemption

2. Type of Mechanism
- ☑ Grant
- ☐ Contract
- ☐ Cooperative Agreement
- ☐ Fellowship
- ☐ Other:_____

3. Name of Federal Department or Agency and, if known, Application or Proposal Identification No.
National Institute of Justice

4. Title of Application or Activity
XML Based Emergency Communication Technology (XBECT)

5. Name of Principal Investigator, Program Director, Fellow, or Other
Dr. Richard Weintraub

6. Assurance Status of this Project (Respond to one of the following):

☐ This Assurance on file with the Department of Health and Human Services, covers this activity:

Assurance identification no. M—_____ IRB identification no.

☐ This Assurance, on file with (agency/dept)_____, covers this activity.

Assurance identification no. M—_____ IRB identification no.

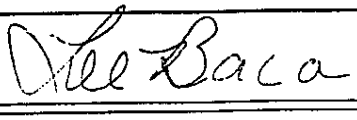
☒ No Assurance has been filed for this project. This institution declares it will provide an Assurance and Certification of IRB review and approval upon request.

☐ Exemption Status: Human Subjects are involved, but this activity qualifies for exemption under Section 101(b), paragraph _____.

7. Certification of IRB Review (Respond to one of the following if you have an Assurance on file)

☐ This activity has been reviewed and approved by the IRB in accordance with the common rule and any other governing regulations or subparts on (date)_____ by: _____ Full IRB Review OR _____ Expedited Review

☐ This activity contains multiple projects, some of which have not been reviewed. The IRB has granted approval on condition that all projects covered by the common rule will be reviewed and approved before they are initiated and that appropriate further certification will be submitted.

8. Comments	
9. The Official signing below certifies that the information provided above is correct and that, as required, future reviews will be performed and certification will be provided.	10. Name and Address of Institution Los Angeles County Sheriff's Department 4700 Ramona Boulevard Monterey Park, California 91754
11. Phone No. (with area code) 323-526-5000	12. Fax No. (with area code) 323-267-6600
13. Name of Official Leroy D. Baca	14. Title Sheriff
15. Signature 	16. Date 4-1-03

OPTIONAL FORM 310 (Rev. 1/98)
Sponsored by HHS/NIH

PRIVACY CERTIFICATE

(Sample Format)

Grantee[1], Leroy D. Baca and Richard Weintraub, certifies that data *identifiable to a private person*[2] will not be used or revealed, except as authorized in 28 CFR Part 22, Sections 22.21 & 22.22.

Grantee certifies that access to the data will be limited to those employees having a need for such data and that such employees shall be advised of and agree in writing to comply with the regulations in 28 CFR Part 22.

Grantee certifies that all contractors, subcontractors, and consultants requiring access to identifiable data will agree, through conditions in their subcontract or consultant agreement, to comply with the requirements of 28 CFR §22.24, regarding information transfer agreements. Grantee also certifies that NIJ will be provided with copies of any and all transfer agreements before they are executed as well as the name and title of the individual(s) with the authority to transfer data.

Grantee certifies that, if applicable, a log will be maintained indicating that (1) identifiable data have been transferred to persons other than employees of NIJ, BJA, BJS, OJJDP, OVC, OJP, or grantee/contractor/subcontractor staff; and (2) such data have been returned or that alternative arrangements have been agreed upon for future maintenance of such data, in accordance with 28 CFR §22.23(b)(6).

Grantee certifies that any private person from whom identifiable information is collected or obtained shall be notified, in accordance with 28 CFR §22.27, that such data will only be used or revealed for research or statistical purposes and that compliance with the request for information is not mandatory and participation in the project maybe terminated at any time. In addition, grantee certifies that where findings in a project cannot, by virtue of sample size or uniqueness of subject, be expected to totally conceal the identity of an individual, such individual shall be so advised.

Grantee certifies that project plans will be designed to preserve the confidentiality of private persons to whom information relates, including where appropriate, name-stripping, coding of data, or other similar procedures.

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[1] Please include the name of the Principal Investigator(s) for this project as well as the name of the person representing the institution receiving the grant funds.

[2] *Information identifiable to a private person* is defined in 28 CFR §22.2(e) as "information which either--(1) Is labeled by name or other personal identifiers, or (2) Can, by virtue of sample size or other factors, be reasonably interpreted as referring to a particular person."

Grantee certifies that copies of all questionnaires that have already been designed for use in the project are attached to this Privacy Certificate. Grantee also certifies that any questionnaires developed during the project period will be provided to NIJ at the end of the project.

Grantee certifies that project findings and reports prepared for dissemination will not contain information which can reasonably be expected to be identifiable to a private person, except as authorized by 28 CFR §22.22.

Grantee certifies that adequate precautions will be taken to ensure administrative and physical security of identifiable data and to preserve the confidentiality of the personally identifiable information.

Grantee certifies that all project personnel, including subcontractors, have been advised of and have agreed, in writing, to comply with all procedures to protect privacy and the confidentiality of personally identifiable information.

To comply with the regulations in 28 CFR Part 22, the following safeguards are incorporated into the grant application.

Brief Description of Project:

Demonstration of feasibility and evaluating the use of mobile computing systems with open standardized Public Safety XML vocabulary and standardized geographic information for inter-operability at critical incident sites.

Procedures to notify subjects, as required by 28 CFR §22.23(b)(4) or, if notification is to be waived, pursuant to 28 CFR §22.27(c), please provide a justification:

All participants using these tools and involved in interviews will be notified by a letter of disclosure.

Procedures developed to preserve the confidentiality of personally identifiable information, as required by 28 CFR §22.23(b)(7):

All participants used as data sources for research and interviews will be assigned a code number.

Justification for the collection and/or maintenance of any data in identifiable form, if applicable:

Of necessity, incident information for law enforcement involves collecting data in identifiable form. By law we may need to provide certain information in connection with legal proceedings.

Procedures for data storage, as required by 28 CFR §22.23(b)(5):

Electronic data will be secured and stored by the Los Angeles County Sheriff's Department, on the Sheriff's Data Network. Paper data will be secured by the Director of Professional Development at the Sheriff's Training and Regional Services Center. (STARS) or by sworn personnel which the project director designates at Sheriff's Stations. Electronic data will be encrypted on the internet or kept within the department's firewall.

Description of any institutional limitations or restrictions on the transfer of data in identifiable form, if applicable:

none

Name and title of individual with the authority to transfer data:

Dr. Richard Weintraub, Director
Professional Development Bureau

Procedures to insure the physical and administrative security of data, as required by 28 CFR §22.25(b), including, if applicable, a description of those procedures used to secure a name index :

A representative of the Sheriff's Department Data System Bureau, Data Security Unit will be designated as the physical and administrative security administrator of project data, a name index will be confidentially maintained by a licensed psychologist. Dr. Ken Mazey, from UCLA who will have a vendor account on the Sheriff's Network.

Procedures for the final disposition of data, as required by 28 CFR §22.25:

Data will be archived and its disposition will be determined by the Director of Professional Development

Name and title of individual authorized to determine the final disposition of data:

Dr. Richard Weintraub, Director

Access to data is restricted to the following individuals, as required by 28 CFR §22.23(b)(2):

Principal Investigator (s) Dr. Richard Weintraub

Project Staff Lt. Jim Moore ,Sgt. George Grein, Wayne E. Clark, Hortencia Gonzales
any LA Sheriff's Department Captain and higher personnel directly working on this project in an advisory or service function.

Contractors, Subcontractors, and/or consultants Dr. Ken Mazey, UCLA, Dr. Doug Young, Exponent Inc.
A. Ed Maghoboul, Vice President Kelar Corporation. (System Integrator)

Grantee certifies that the procedures described above are correct and shall be carried out.

Grantee certifies that the project will be conducted in accordance with all the requirements of the Omnibus Crime Control and Safe Streets Act of 1968 as amended and the regulations contained in 28 CFR Part 22.

Grantee certifies that NIJ shall be notified of any material change in any of the information provided in this Privacy Certificate.

Signature (s): _____ (Principal Investigator)
_____ (Principal Investigator)
_____ (Institutional Representative)

Date: 3/26/03

U.S. DEPARTMENT OF JUSTICE
OFFICE OF JUSTICE PROGRAMS
OFFICE OF THE COMPTROLLER

CERTIFICATIONS REGARDING LOBBYING; DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS; AND DRUG-FREE WORKPLACE REQUIREMENTS

Applicants should refer to the regulations cited below to determine the certification to which they are required to attest. Applicants should also review the instructions for certification included in the regulations before completing this form. Signature of this form provides for compliance with certification requirements under 28 CFR Part 69, "New Restrictions on Lobbying" and 28 CFR Part 67, "Government-wide Debarment and Suspension (Nonpro-curement) and Government-wide Requirements for Drug-Free Workplace (Grants)." The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Justice determines to award the covered transaction, grant, or cooperative agreement.

1. LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 28 CFR Part 69, for persons entering into a grant or cooperative agreement over $100,000, as defined at 28 CFR Part 69, the applicant certifies that:

(a) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the making of any Federal grant, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal grant or cooperative agreement;

(b) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal grant or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure of Lobbying Activities," in accordance with its instructions;

(c) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subgrants, contracts under grants and cooperative agreements, and subcontracts) and that all subrecipients shall certify and disclose accordingly.

2. DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS (DIRECT RECIPIENT)

As required by Executive Order 12549, Debarment and Suspension, and implemented at 28 CFR Part 67, for prospective participants in primary covered transactions, as defined at 28 CFR Part 67, Section 67.510—

A. The applicant certifies that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, sentenced to a denial of Federal benefits by a State or Federal court, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and

(d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) terminated for cause or default; and

B. Where the applicant is unable to certify to any of the statements in this certification, he or she shall attach an explanation to this application.

3. DRUG-FREE WORKPLACE (GRANTEES OTHER THAN INDIVIDUALS)

As required by the Drug-Free Workplace Act of 1988, and implemented at 28 CFR Part 67, Subpart F, for grantees, as defined at 28 CFR Part 67 Sections 67.615 and 67.620—

A. The applicant certifies that it will or will continue to provide a drug-free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;

(b) Establishing an on-going drug-free awareness program to inform employees about—

(1) The dangers of drug abuse in the workplace;

(2) The grantee's policy of maintaining a drug-free workplace;

(3) Any available drug counseling, rehabilitation, and employee assistance programs; and

(4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;

(c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);

(d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will—

(1) Abide by the terms of the statement; and

(2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;

(e) Notifying the agency, in writing, within 10 calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such convic-tion. Employers of convicted employees must provide notice, including position title, to: Department of Justice, Office of Justice Programs, ATTN: Control Desk, 633 Indiana Avenue, N.W., Washington, D.C. 20531. Notice shall include the identification number(s) of each affected grant;

(f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted—

(1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or

(2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;

(g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a), (b), (c), (d), (e), and (f).

B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

Check ☐ if there are workplaces on file that are not indentified here.

Section 67, 630 of the regulations provides that a grantee that is a State may elect to make one certification in each Federal fiscal year. A copy of which should be included with each application for Department of Justice funding. States and State agencies may elect to use OJP Form 4061/7.

Check ☐ if the State has elected to complete OJP Form 4061/7.

DRUG-FREE WORKPLACE
(GRANTEES WHO ARE INDIVIDUALS)

As required by the Drug-Free Workplace Act of 1988, and implemented at 28 CFR Part 67, Subpart F, for grantees, as defined at 28 CFR Part 67; Sections 67.615 and 67.620—

A. As a condition of the grant, I certify that I will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant; and

B. If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, I will report the conviction, in writing, within 10 calendar days of the conviction, to: Department of Justice, Office of Justice Programs, ATTN: Control Desk, 633 Indiana Avenue, N.W., Washington, D.C. 20531.

As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above certifications.

1. Grantee Name and Address:
Los Angeles County Sheriff's Department
4700 Ramona Boulevard
Monterey Park, California 91754

95-6000927
3. Grantee IRS/Vendor Number

2. Application Number and/or Project Name
XML Based Emergency Communication Technology (XBECT)

Leroy D. Baca, Sheriff
4. Typed Name and Title of Authorized Representative

Lee Baca
5. Signature

4-1-03
6. Date

*U.S. Government Printing Office: 1996 - 405-037/40014