Clark County Sheriff's Office

Jail Management System
Biometric Facial Recognition Proposal

In response to a request by the Clark County Sheriff's Office, EIS is pleased to present this proposal to add biometric facial recognition capabilities to the existing Jail Management System. This addition will complement the existing fingerprint Identification system currently deployed and will provide additional biometric validation capabilities.

This system can be immediately productive by using the existing library of inmate photos and can be expanded at a later date to include field identification capabilities.

The proposal includes all required software and implementation services from EIS. We anticipate that the core system will operate on existing servers currently running the JMS system and no special hardware will be required.

Project Goals
1. Enhance the existing EIS Biometric platform utilized by the Clark County Sheriff's Office with the facial recognition identification sub-system.
2. Provide subject identification during intake by searching previous booking records based on an associated facial image.
3. Provide rapid inmate validation during release.

Software Description
The JMS Biometric System is intended to quickly identify subjects as part of the booking intake process, general search, and release from the facility.   This helps ensure that inmates are booked under the correct name and can speed bookings by facilitating prior record retrieval. During release officers can verify identity to help ensure that the appropriate inmate is being processed. Facial recognition can provide a rapid, non-intrusive identification capability that can quickly compare images based on specific biometric facial characteristics.

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PRICING PROPOSAL

Agency: Clark County - Information Services Department

Address: 707 West 13th Street

Address: Vancouver, WA 98660

Contact: Monaghan, Tim (Tim.Monaghan@clark.wa.gov)

Telephone: (360) 397.2211 ext. 6020

Proposal Number: 1700122

Proposal Creation Date: May 24, 2017

Qbasis: D

Proposal Expiration Date: August 25,2017

Prepared By: A. Missler

PS.NET System Components

	Software Licensing	Services	2nd Y Support
Facial Recognition Device License(s)	$4,000.00		$600.00
Installation Services		$0.00	
Training Services		$0.00	
Travel and Per Diem Expenses		$0.00	
	$4,000.00	$0.00	$600.00
SUB-TOTAL	$4,000.00		
CA Discount			
TOTAL	$4,000.00		$600.00

* To be added as amendment to existing Contract # SH15-17.

This is a quotation on the goods named, subject to the terms and conditions attached. Agency acknowledges receipt of and agreement with the system hardware requirements related to the EIS suite of products for all agency provided hardware related to this agreement. To accept this quotation, sign here and return:

_____   _____

CCSO Authorized   Title

_____

Date

_____

Executive Information Services Authorized Signature, Title & Date

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	Facial Feature Extractor component license(s)			
	Facial Image Matching Server component license(s)			
2.	Client Workstation Software License	4		$6,000.00
3.	Installation and configuration services			$12,800.00
4.	Historic Image load and enrollment conversion			$8,000.00
	ECC Discount			(15,800.00)
	TOTAL COST			$65,000.00

Terms and Conditions

1. This quotation expires January 1, 2017 unless extended by EIS.
2. Pricing does not include applicable state or local taxes which will be added to invoices.
3. Pricing is based on the following payment schedule
   30% on contract signing
   70% on delivery and live operation in the jail management system
4. Support carries a 90-day warranty from date of live operation implemented a a standard support services agreement. On-going support is available at 10% of system cost or $6,000.00 per year which will be pro-rated and added to regular JMS support agreements.

This is a quotation on the goods named, subject to the terms and conditions attached. To accept this quotation, sign here and return:

_____
Clark County Sheriff's Office Authorized Representative

2-1-17
_____
Date

_____ 2/1/2017
Executive Information Services Authorized Signature, Title & Date

Appendix A –Hardware Requirements

JMS Workstation Requirement

1. Microsoft Windows version 7, 8 or 10; 32 or 64 bit
2. Desktop PC or laptop with x86 (32-bit) or x86-64 (64-bit) compatible processors
   (2 GHz or better processor is recommended.)

System Cost

Item	Description	Quantity	Cost
1.	Base Application Software	1	$54,000.00
	Face Client Processor component license(s)		
	Facial Feature Extractor component license(s)		
	Facial Image Matching Server component license(s)		
2.	Client Workstation Software License	4	$6,000.00
3.	Installation and configuration services		$12,800.00
4.	Historic Image load and enrollment conversion		$8,000.00
	ECC Discount		(15,800.00)
	TOTAL COST		$65,000.00

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Date

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Appendix B –Facial Recognition Best Practices

Face recognition accuracy heavily depends on the quality of a face image, and the ability of the algorithm to locate salient features on the subject's face. Image quality (e.g. resolution, lighting, etc.) during enrollment is important, as variations in quality will have impact on the quality of the face registration template.

General Guidelines

- Native image resolution should be at minimum 32 pixels is the recommended minimal distance between eyes for a face on image or video stream to perform face template extraction reliably. 64 pixels or more recommended for better face recognition results. These standards are enforced by images acquired through the EIS advanced imaging capture solution, however may be variable based on images acquired through other sources.
- Items of clothing or other elements that impact the eye regions of the face (Glasses, hail, etc.) can impact the quality of the resulting image templates. Glasses should be removed during primary facial enrollment.
- Additional enrollments may be needed when facial hair style changes, especially when beard or mustache is grown or shaved off.

Face posture

The face recognition engine supports an optimal facial position criterion, and certain tolerances to face posture:

- head roll (tilt) – ±30 degrees is the recommended setting for most near-frontal face images.
- head pitch (nod) – ±15 degrees from frontal position.
- head yaw (bobble) – ±15 degrees from frontal position for most near-frontal face images.

Change Order Agreement

SECTION A. CHANGE ORDER DESCRIPTION

CR #:	25
Client Name:	Clark County Sheriff's Office
Project Name:	Clark County JMS
Impact Area:	Software Deliverables

Date:	2/1/2017
Requestor:	Agency
Priority:	Med
Target Date	

Short Description of Change:

Modify the existing agreement to include the licensing and services required to support the delivery of additional software and system components for the Clark County Sheriff's Office. Agency wishes to install the EIS integrated facial recognition biometric verification engine supporting the EIS Jail Management System for the purpose of enrolling inmate facial images during the booking process, and utilizing the facial matching systems as a means to assist in inmate identification. Delivery includes EIS developed software, hardware, third party supporting software and third party hardware devices as specified.

Detailed Description of Change:

Modify the existing agreement to include Software License and implementation services for the EIS Integrated Facial Recognition verification sub-system. Facial Software will operate in accordance with the processes detailed in the proposal document "CLARK COUNTY SHERIFF'S OFFICE JAIL MANAGEMENT SYSTEM BIOMETRIC FACIAL RECOGNITION PROPOSAL" Dated 2/1/2017 Revision 2

Deliverables

1. Base Application Software
   a. Face Client Processor component license(s)
   b. Facial Feature Extractor component license(s)
   c. Facial Image Matching Server component license(s)
2. Client Workstation Software License
3. Installation and configuration services
4. Historic Image load and enrollment conversion

Cost of Work Estimation for Change:

The additional software licensing and installation services will be provided to Clark County at a cost of $65,000 USD.

Payment Terms:

30% On Change Order Execution   - $19,500 USD

Executive Information Services, Inc. • 1396 NE 20th Ave. Suite 100• Ocala, FL 34470 • Phone: (856) 701-6107 • WWW.goeis.net

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70% On Delivery and acceptance   - $45,500 USD

90 day operational support services are included in the initial licensing fee.

Annual Support Fee Impact

Following the 90 day warranty, The addition of the new licensing will increase system support cost by an addition $6,000.00 USD per year. The support fee will be added to the County's current schedule and billed as part of the standard annual support services invoice.

SECTION B: IMPACT STATEMENT

Schedule/Impact:
None

THE PARTIES ACKNOWLEDGE THAT THEY HAVE READ THIS CHANGE ORDER, UNDERSTAND IT, AND AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. FURTHER, THE PARTIES AGREE THAT THE COMPLETE AND EXCLUSIVE STATEMENT OF THE AGREEMENT BETWEEN THE PARTIES RELATING TO THE SERVICES DESCRIBED HEREIN CONSISTS OF THIS CHANGE ORDER. THIS STATEMENT OF THE CHANGE ORDER SUPERSEDES ALL PROPOSALS OR OTHER PRIOR ACKNOWLEDGEMENTS, ORAL OR WRITTEN, AND ALL OTHER COMMUNICATIONS BETWEEN THE PARTIES RELATING TO THIS SUBJECT.

Change Order Agreed to:
Provider

By: _____
Authorized Signature

Name: Justin Davis
Title: Director of Development
Date: 2/1/2017

Change Order Agreed to:
Buyer

By: _____
Authorized Signature

Name:
Title:
Date:

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Change Order Agreement

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Client Name:	Clark County Sheriff's Office	Requestor:	Agency
Project Name:	Clark County JMS	Priority:	Med
Impact Area:	Software Deliverables	Target Date	

Short Description of Change:

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SECTION B: IMPACT STATEMENT

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Change Order Agreed to:
Provider

By: _____
Authorized Signature

Name: Justin Davis
Title: Director of Development
Date: 2/1/2017

Change Order Agreed to:
Buyer

By: _____
Authorized Signature

Name: Melissa Weesner
Title: CCSO Sr. Proj. Manager
Date: 2/1/2017

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Executive Information Services, Inc.

1396 NE 20th Ave., Suite 100
Ocala, FL 34470-8228

Invoice

Invoice Date:	Invoice #:
2/2/2017	7775

Bill To:
Clark County Office of Purchasing P.O. Box 5000 1300 Franklin St., 6th Floor, Suite 650 Vancouver, WA 98660

P.O. Number:	Terms	Vendor #
	Net 30	

Date	Description	Amount
2/2/2017	30% Due on Change Order Execution, EIS JMS Biometric Facial Recognition Software	19,500.00T
	Sales Tax	1,638.00

Thank you for your business.

Total	$21,138.00
Payments/Credits	$0.00
Balance Due	$21,138.00

Phone #
(352)236-4500

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