### How will this fit into your business process.

### **Police Departments**

- Department scans face of subject.
- System performs a one to many search of the MSA centralized database and returns the photo and demographic information for the top matches or a no matches found message.

## Installation plan - training

 Training methodology Regional training: South Shore:

Barnstable, Bristol, Dukes, Plymouth, Nantucket

**Boston Area** 

Essex, Middlesex, Norfolk, Suffolk

Central & Western Ma. Berkshire, Franklin, Hampden, Hampshire, Worcester.

# Project deliverables – Server.

- Server will be housed at Essex and maintained by Essex technical staff.
- Server specification: Dell Poweredge Server
  - 2x Intel 4-Core E5530 CPUs running at 2.4 Ghz.
  - 8 GB RAM.
  - Windows Server 2008R2 Web x64 edition.
  - Raid 5 disk array with 4x 146GB SAS 10,000 RPM hot-pluggable disk drives.
  - Redundant 500W Power Supply.
- Database MySQL

# Project Deliverables – Sheriff Dept.

- High resolution color web cam.
- Animetrics Modified Facial Recognition system.
- Training
- Documentation 1 copy of Animetrics Users Guide.

# Project Deliverables – Police.

- High resolution color web cam.
- Animetrics web based Facial Recognition system.
- Query access to the central database via internet (URL to central server supplied).
- No enroll capability.
- Training
- Documentation 1 copy of Animetrics Users Guide.

### Technology requirements for each organization.

- Software will be installed on department supplied PC which meets minimum Animetrics specifications.
- Internet connectivity / State firewall issues.
- PC requirements. no PC's delivered as part of this project.
- We will install on the department supplied pc: Apache.
   We will Disable IIS.
   MYSQL on port 7777.
   DLL's.
   Default gallery.
  - **ODBC** connectors.

## **Conversion of existing mug shots.**

- if you would like to see whether your existing digital photographs of offenders can be converted and imported into the new system, you need to provide BI2 with these images in JPEG or PNG image file format, or other digital format which can be converted to JPEG/PNG.
- Sample images (approximate one dozen) from each department must be submitted to Animetrics by 5/21/2010.
- Departments will be notified of the usability of their photos.
- Departments with usable photos must submit all photos to be converted by

### Image Conversion

- Requirements to attain the face matching performance proposed.
- Face frontal view, with pose variation up to 15 degrees for x axis (face pitch), y axis (face yaw), and z axis (face tilt).
- Both eyes must be visible with a minimum of 64 digital pixels between eye centers.
- Face size ratio within photo minimum 1/8<sup>th</sup> the width of the image and maximum ½ the width of the image
- Black and white or color image.
- Image can be landscape or portrait format.
- Image source from any digital camera (including IP video camera, webcam, or digital point and shoot camera), minimum image size: 1 megapixel (480X640).
- No dark sunglasses that obscure view of both eyes
- Subject may have facial hair or regular eye glasses (clear).

### Walsh, James F (SDA)

<sup>-</sup>rom: Sent: To: Cc: Subject: Walsh, James F (SDA) Thursday, April 29, 2010 5:15 PM

'Sean Mullin'; Michael McCormack, Sheriff RE: Presentation Draft for 5/12 Kick-off meeting

Sean: Bri:

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- 4. Next steps from May 12: We need to give folks the specifics of what they will need to do and the timeline for same.

Thank you,

James F. Walsh, Executive Director Massachusetts Sheriffs' Association



My new email address: james.f.walsh@massmail.state.ma.us

From: Bri Blakeman [mailto

Sent: Thursday, April 29, 2010 3:49 PM To: 'Walsh, James F (SDA)' Cc: 'Sean G. Mullin'; 'George Connolly'; 'Mike Vernazzaro'; 'Paul Schuepp'; 'Richard G. Search' Subject: Presentation Draft for 5/12 Kick-off meeting

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Please let me know if you have any trouble with the attachment.

T	ha	nk	yo	υ,	

3rì Blakeman

From: Walsh, James F (SDA) [mailto Sent: Thursday, April 29, 2010 11:39 AM To: Mail Constant Constant

Hello Bri:

FYI below:

Thanks,

James F. Walsh, Executive Director Massachusetts Sheriffs' Association

O B direct D fax (617)

My new email address:

Lus

From: Jim Walsh [mailto:jimwalsh] Sent: Thursday, April 29, 2010 11:37 AM To: Walsh, James F (SDA) Subject: Fw: MORIS (handheld device)

----- Forwarded Message ----From: Jim Walsh <jimwalsh To: Sean G. Mullin < Sent: Thu, April 29, 2010 11:36:23 AM Subject: Re: MORIS (handheld device)

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Two things, please:

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2. Please use my new work e-mail address:

Thank you, as always,

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Cc:

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Best wishes,

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Sean G. Mullin President & CEO BI2 Technologies 488 State Road Plymouth, Massachusetts 02360 Office - 000 ext. 17 Fax - 01 Cell - 44

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<sup>-</sup>rom: Sent: To: Subject: Walsh, James F (SDA) Thursday, April 29, 2010 5:20 PM 'MaryAnn Fallon' FW: Presentation Draft for 5/12 Kick-off meeting

Mary Ann:

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The Meeting starts at 11:00 a.m.

Sean Mullin of BI 2 Technologies will be directing the technical presentation and the explanation of the Program timeline. Sheriff Bellotti would need to basically thank the Sheriffs for sending staff to this Meeting and compliment Essex for taking the lead in calling for the use of this technology.

The audience would be Sheriffs' I-T staff - mostly.

Thank you, as always,

James F. Walsh, Executive Director Massachusetts Sheriffs' Association

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) β direct

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**Cc:** 'Sean Mullin'; Michael McCormack, Sheriff **Subject:** RE: Presentation Draft for 5/12 Kick-off meeting,

us

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Thank you,

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Subject: FW: MORIS (handheld device)	
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Thanks,	
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Massachusetts Sheriffs' Association	
(617) 503-3230	
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) fax	
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(617)

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#### Best wishes,

Sean

Sean G. Mullin President & CEO BI2 Technologies 488 State Road Plymouth, Massachusetts 02360 Office - 00 ext. 17 Fax - 01 Cell - 44

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4

### Walsh, James F (SDA)

From: Sent: To: Subject: Walsh, James F (SDA) Thursday, April 29, 2010 5:23 PM Michael McCormack, Sheriff FW: Presentation Draft for 5/12 Kick-off meeting

Hello Sheriff McCormack:

I Hate to ask.....AND, THIS WOULD BE ONE DAY PRIOR TO THE MAY 13 MSA MEETING IN MIDDLESEX (Billerica) ... but, is there any chance you could join us in Auburn, MA on May 12 to help-us kick-off this Program???? Please see below I am trying to enlist Sheriffs Bellotti and Cousins to do same.

Thank you, as always,

James F. Walsh, Executive Director Massachusetts Sheriffs' Association

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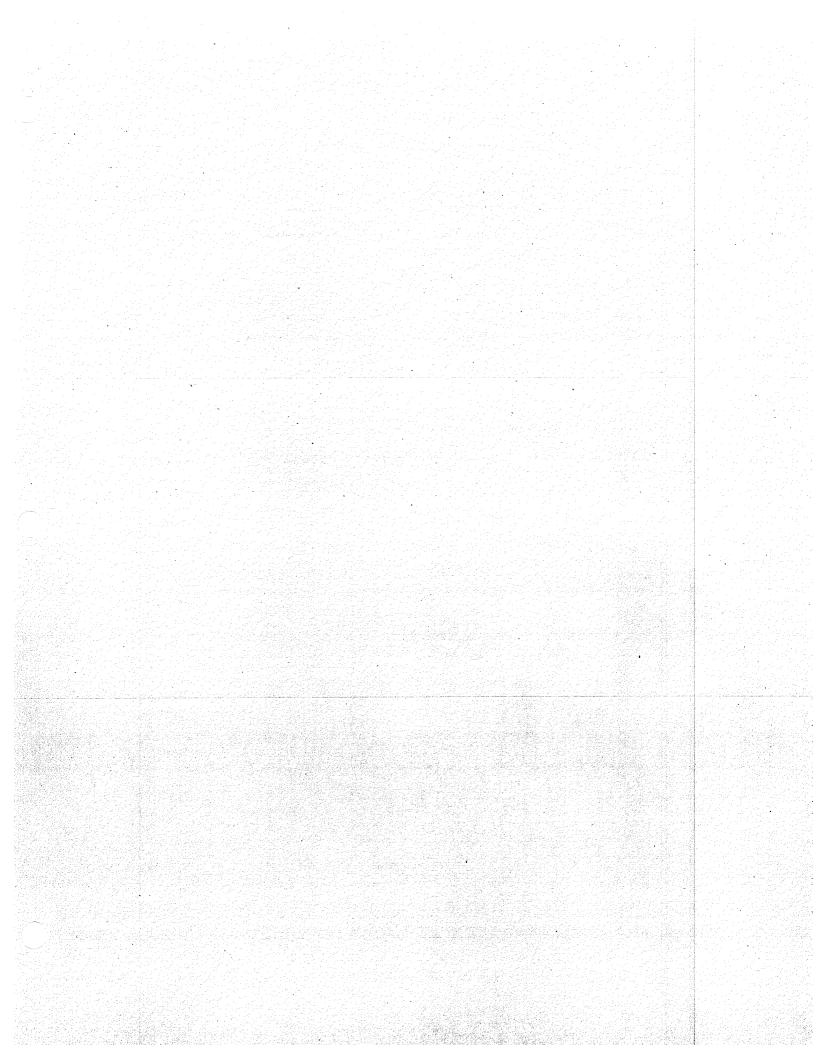
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Thank you, as always,

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(617)

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B direct
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Hello Bri:

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#### Walsh, James F (SDA)

From:	
Sent:	
To:	
Subject	:t:

Walsh, James F (SDA) Friday, April 30, 2010 11:45 AM 'Sean G. Mullin' RE: Presentation Draft for 5/12 Kick-off meeting

Ok. This looks good. TY for the return input.

I am trying to get one-to-three Sheriffs to attend – 05/12. Sheriff McCormack is a "yes" – He will attend. I'm still inquiring on availability of Sheriffs Cousins and Bellotti.

James F. Walsh, Executive Director Massachusetts Sheriffs' Association (617) 503-3230



My new email address:

From: Sean G. Mullin [mailto:

Sent: Friday, April 30, 2010 11:35 AM

To: 'Walsh, James F (SDA)'; Cc: Michael McCormack, Sheriff; 'George Connolly'; 'Peter Flynn'; 'Mike Vernazzaro'; 'Paul Schuepp'; 'Richard G. Search'; 'Kamen Kostov'; 'David Usher'

Subject: RE: Presentation Draft for 5/12 Kick-off meeting

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(617) **1000 (617)** direct (617) 503-3240 fax (617) 548-2398

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1. Can we have a conversation about how BI@ wants to approach the content-presentation plan for the 05/14 kick-off session? I just want a sense of how you think the presentation will un-fold.

3

2. Please use my new work e-mail address:

Thank you, as always,

j.w.

From: Sean G. Mullin <

To: Cc:

Sent: Thu, April 29, 2010 11:09:44 AM Subject: MORIS (handheld device)

Dear Jim,

Thanks for the bid check! Unexpected and much appreciated.

Attached please find photos of the MORIS device we discussed. As we discussed, I will send you suggested language to the contract to enable the MSA to purchase 15 for your Sheriffs.

MORIS is facial recognition enabled today!!! As I mentioned, iris and fingerprint will be ready during the summer. Please let me know what you think!

4

Best wishes,

Sean

Sean G. Mullin President & CEO BI2 Technologies 488 State Road Plymouth, Massachusetts 02360 Office - 508-Fax - 01 Cell - 617-803-1644

No virus found in this incoming message. Checked by AVG - www.avg.com Version: 9.0.814 / Virus Database: 271.1.1/2841 - Release Date: 04/29/10 02:27:00

No virus found in this incoming message. Checked by AVG - www.avg.com Version: 8.5.437 / Virus Database: 271.1.1/2845 - Release Date: 04/30/10 11:34:00

Walsh,	James I	(SDA)
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From: Sent: To: Subject: Bri Blakeman [ Friday, April 30, 2010 12:41 PM 'Walsh, James F (SDA)' RE: ECSD Letter of participation

Received, thank you!

Bri Blakeman

From: Walsh, James F (SDA) [mailto Sent: Friday, April 30, 2010 12:28 PM To: h Cc: Sean G. Mullin

Subject: FW: ECSD Letter of participation

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FYI

James F. Walsh, Executive Director Massachusetts Sheriffs' Association

(617)	direc
(617)	fax

My new email address:

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1	From: David Marescalchi [mailto
	Sent: Friday, April 30, 2010 12:26 PM
	To: jimwalsh
	Cc: McCarthy, Michael (SDE)
1	Subject: ECSD Letter of participation

Jim,

Attached is a scan of ECSD's letter of participation for the facial recognition project. I tried to fax it to you but your fax isn't picking up. thanks.

Dave

David Marescalchi Asst. Superintendent IV I.T. & Communications Essex County Sheriff's Department 978-1000 ext 3403

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#### Walsh, James F (SDA)

From: Sent: To: Cc: Subject: Bri Blakeman [ Wednesday, May 05, 2010 11:43 AM 'Allain, Patty (SDA)' 'Walsh, James F (SDA)' RE: Conference call on Friday, May 7th at 10:00 a.m. instructions

Received, thank you! I will forward this information to Sean Mullin, Mike Vernazzaro and George Connolly.

Bri Blakeman

From: Allain, Patty (SDA) [mailton and a second sec

Hi Bri,

Please forward the following information to the staff who will be involved in Friday's conference call.

Conference Call - Friday, May 7, 2010 at 10:00 a.m.

At 10:00 a.m., please dial: 1-866-831-7878

After instructed, please enter your pass code: 3690857#

If you have any questions, please feel free to call me.

Thank you,

Patty

Patty Allain, MSA Executive Assistant 271 Cambridge Street, Suite 202 Cambridge, MA 02141

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<i>:</i> -rom: Sent: To:	Walsh, James F (SDA) Wednesday, May 05, 2010 3:26 PM
Cc: Subject:	'Sean G. Mullin' HAMPSHIRE COUNTY Acceptance Form Upgrade and Expansion of Essex Facial Recognition Technology
Bri:	
For your records a	at B.I.2 Technologies: Please note the following:
	Mail, I received the Acceptance Form from Sheriff Robert Garvey indicating the Hampshire Sheriff's of the [to be] Upgrade[d] and Expanded Essex Facial Recognition Technology.
Sheriff Garvey adv	vises the designated point of contact for this matter in Hampshire County will be:
	enior I-T Specialist t. 226 <u>s</u>
Thank you,	
271 Cambridge St Cambridge, MA 02	eriffs' Association , Suite 202 2141 Irect
My new email ad	dress:
	te.ma.us
	$\mathcal{L}_{1}$ , where $\mathcal{L}_{2}$ is the second

### Walsh, James F (SDA)

.-rom: Sent: To: Subject: Attachments: Bri Blakeman [ Friday, May 07, 2010 10:07 AM 'Walsh, James F (SDA)' Agenda 5.12.10 MSA meeting agenda.docx

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Bri Blakeman Administrative Assistant Bl2 Technologies p: (508) bootstant f: (508) bootstant e: bblakeman@bi2technologies.com w: www.bi2technologies.com