

STATE OF HAWAII '04 MAY 26 P2:39  
REQUEST FOR SOLE SOURCE 4 MAY 26 10:32

STATE PROCUREMENT OFFICE  
STATE OF HAWAII  
STATE OF HAWAII  
OFFICE

TO: Chief Procurement Officer

FROM: Department of the Attorney General, Hawaii Criminal Justice Data Center  
(Department/Division/Agency)

Pursuant to § 103D-306, HRS and Subchapter 9, Chapter 3-122 HAR, the Department requests sole source approval to purchase the following:

Description of goods, services, or construction:  AFIS Upgrade to MetaMorpho - See Attached.
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Name of Vendor: Sagem Morpho, Inc.  Address: 1145 Broadway Plaza Tacoma, Washington 98402	Cost: \$1,800,000
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Term of Contract: From: Upon CPO approval To: 12 months from contract execution	Prior Sole Source Reference No:
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The goods, services, or construction has the following unique features, characteristics, or capabilities: See Attached.
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How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work:  
See Attached.

The following other possible sources for the goods, services, or construction were investigated but do not meet our needs because:  
See Attached.

Direct Questions To: Liane M. Moriyama,  
Administrator

Phone: 587-3110

I certify that the information provided above is to the best of my knowledge, true, correct and that the goods, services, or construction are available through one source.

Ronald T. Gurney      MAY 23 2004  
Department/Agency Head      Date

First Deputy Attorney General  
Title (If other than Department/Agency Head)

Chief Procurement Officer's Comments:

Please ensure adherence to applicable administrative and statutory requirements.

Expenditure may be processed through a purchase order: Yes \_\_\_\_\_ No  . If no, a contract must be executed and funds certified.

Approved      \_\_\_\_\_ Denied

Adam S. Fisher      6/16/04  
Chief Procurement Officer      Date

## **REQUEST FOR SOLE SOURCE – Automated Fingerprint Identification System (MetaMorpho)**

### Description of goods, services, or construction:

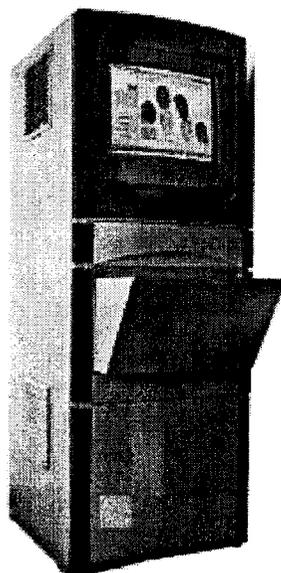
We request sole source approval for the purchase of hardware and software to upgrade the State's Automated Fingerprint Identification System (AFIS) to MetaMorpho. This upgrade is necessary to achieve more accurate and timely offender identifications through the use of the newest matcher technology, which includes "multiple finger matching". This upgrade to MetaMorpho is also a prerequisite to develop and incorporate "Lights-Out" processing (to be described later).

Additionally, MetaMorpho will provide for the digital storage of offender palm prints and the ability to match latent (crime scene) prints against both ten-print and palm print records stored in AFIS. The MetaMorpho will also provide the means to export latent prints in formats compatible with the Federal Bureau of Investigation's (FBI) Integrated Automated Fingerprint Identification System (IAFIS) and with other vendor's products.

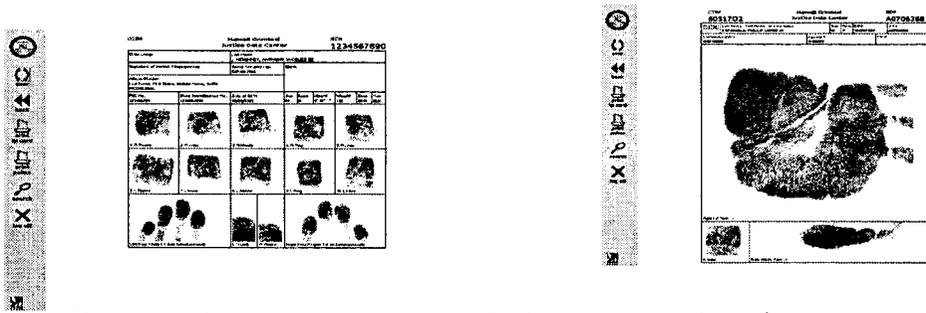
(1) The goods, services, or construction has the following unique features, characteristics, or capabilities:

Sagem Morpho's AFIS is proprietary as are the systems of other AFIS vendors. This system is proprietary because of its database encoding algorithms, record storage process, workstation software, latent print (crime scene prints) processing, and the customized design of its Store and Forward component required to process and route arrest/booking transactions between major system components of Hawaii's AFIS and CJIS-Hawaii, which include the following:

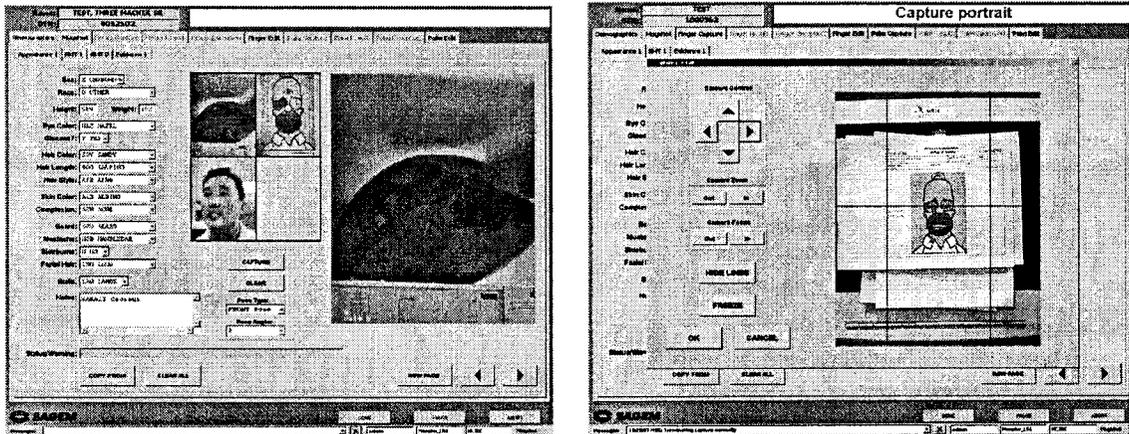
- Hawaii's current AFIS;
- The Integrated ILSS LiveScan workstations at the booking sites (hardware and software);



- The Hawaii Fingerprint and Palm Print Archival System, and its workstations;



- The mug photo integration into the live scan workstations;



- The Store and Forward, used to consolidate the input from various other components into one transaction and route that single transaction to the appropriate destination (i.e., The Hawaii Archive, the Mug Photo Server, the FBI's IAFIS, etc.); and
- The Gateway Services Provider (GSP) which actually transmits transactions to IAFIS and receives and routes the responses from IAFIS.

This is not a system replacement. Morpho's products are required for this proprietary system upgrade.

MetaMorpho is required to closely integrate the Hawaii AFIS and CJIS-Hawaii for "real time" or "Lights-Out" processing, which will provide the arresting officer with positive offender identification results, based upon fingerprint and name search results on a 7 day a week/24 hour a day basis, while the offender is still in custody. The current Hawaii AFIS', XL3.1 technology is outdated and not robust enough to accomplish this integration.

(2) How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work:

AFIS maintains the electronic fingerprints of all adult offenders arrested in the State of Hawaii and since 1995 fingerprints of juvenile law violators have been entered into AFIS. Since its implementation in 1990, AFIS technology has become a valuable tool for law enforcement throughout the State. It has provided for more accurate identification of arrested

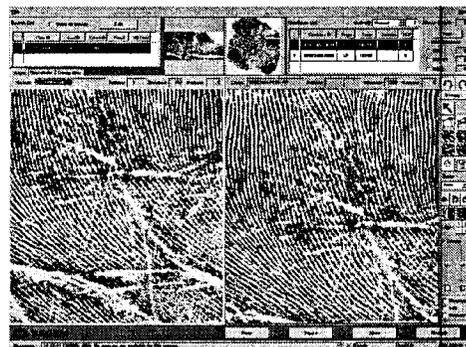
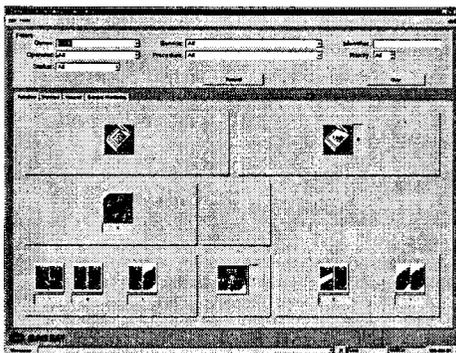
individuals, and has been more timely than the previous manual process. This has been crucial, not only for police, but for public safety as well. This information helps determine criminal history, flight risk, bail provisions, etc.

As well as the current system has performed, it has fallen short in providing the timely identification of offenders within the State. Under the current multi-step processing, it could take up to 30 days between the actual booking on an individual, and the establishment of the offender's positive identification. This time delay is due in large part to the necessity to have an AFIS operator process a fingerprint card on the current AFIS. Piloting the use of livescan and CardScan devices has demonstrated the effectiveness of electronic capture and transmission of data in reducing the time for positive offender identification; however, the need for AFIS operator intervention still remains today.

Additionally, the lack of 7 day a week/24 hour a day staffing adds to the delay of the identification results being transmitted back to the booking officers.

The AFIS upgraded to MetaMorpho with "Lights-Out" processing will receive the electronic images captured at the various booking facilities, automatically launch them for a search, and will report the search results to the other interfaced systems. It is estimated that a positive identification may be made in 75%-80% of the time without manual intervention. This will have a direct and positive impact to law enforcement and public safety because individuals arrested can be identified while still in custody.

Unavailable in today's AFIS is the ability to search crime scene palm prints. Statistically, 25% of all crime scene prints recovered are palm prints. AFIS made it possible for law enforcement to search latent prints against all of the electronic ten-print records, but palm prints were still kept manual files and could not be similarly searched. MetaMorpho will have the ability to match palm prints against the data base accurately and electronically, within hours, not months or years, and provide more timely offender identifications.



The matching technology in an upgraded MetaMorpho AFIS far surpasses the current technology in speed and accuracy. Current technology provides for 98% accuracy for ten-print searches, and 60% accuracy for latent (crime scene) print searching. MetaMorpho provides for 99% accuracy for ten-print searches and 70% accuracy for latent searches, including palm print matching.

MetaMorpho is also needed for the "Fast ID" function. "Fast ID" uses a two-finger device that provides for 1:1 searching, verifying the identity of offenders to be released from

correctional facilities, verifying the identity of individuals in court for providing “proof of prior conviction”, and ultimately for use by the police officer in the street and in Homeland Security scenarios. It also provides the capability for rapid 1:many searches.

- (3) The following other possible sources for goods, services, or construction were investigated but do not meet our needs:

The proprietary nature of the Sagem Morpho AFIS requires that the software and hardware acquisitions for this upgrade must come from them exclusively, in order to function with the existing system’s carryover components.

Although, other vendors may be able to supply total replacement AFIS systems, they would not have a replacement for all of the existing integration processing components listed under #1 above. The nature of the current integration processing is based largely upon Sagem Morpho products and customization. Purchase of an AFIS from another vendor is not an option. It would call for conversion of the paper fingerprint cards and the databases into another vendor’s proprietary format. The sophisticated customized programming necessary to duplicate the interface processing in the existing Sagem Morpho system would be far more costly and incur delays and unnecessary downtime for a system critical to law enforcement. It would also call for complete retraining of all operators and system administrators.

The purchase of MetaMorpho from Sagem Morpho, Inc. is NOT a complete system replacement, it is, in fact, an upgrade to the existing system that would provide the criminal justice agencies in the State with a more effective and expeditious way to identify individuals and their associated criminal histories in a time when public safety and Homeland Security measures demand nothing less.

STATE OF HAWAII  
NOTICE OF SOLE SOURCE

4 MAY 26 10:33

STATE OF HAWAII  
PROCUREMENT OFFICE

The Chief Procurement Officer is in the process of reviewing the request from the Department of the Attorney General, Hawaii Crim. Just. Data Ctr. for the sole source purchase of the following goods, services, or construction:

AFIS to MetaMorpho.

**Vendor:** Sagem Morpho, Inc.

**Address:** 1145 Broadway Plaza  
Tacoma, Washington 98402

**Term of Contract:** From: Upon CPO approval To: 12 months from execution of contract **Cost:** \$1,800,000

**Direct any inquiries to:**  
Department: Hawaii Criminal Justice Data Center  
  
Contact Name/Title: Liane M. Moriyama,  
Administrator  
Address: 465 S. King Street, Room 101  
Honolulu, Hawaii 96813

Phone Number: 587-3110  
  
Fax Number: 587-3109

A copy of this notice of sole source shall be posted by the Chief Procurement Officer and the purchasing agency in an area accessible to the public, at least seven calendar days prior to any approval action.

Submit written objections to this notice to issue a sole source contract within seven calendar days from the date this notice was posted to:

Chief Procurement Officer  
Office/Agency \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

Date Notice Posted: MAY 26, 2004

SS Number: 04-68-M