

CECOM SEC IFS

Intelligence Fusion Systems



CECOM Bottom Line: THE WARFIGHTER



**Track 12 – Shared Awareness
From Stove-pipe to Network Centric (171)
Leveraging Technology to
Present a Unified View
June 16,2004**

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Agenda



- **SEC Organization and Mission Overview**
- **Introduction on Stove-pipe**
- **Background**
- **Scenario**
- **Leveraging Technology**
- **Conclusion**



CECOM SEC Organization



Ft. Huachuca, AZ

- Chief: Medhat Abuhantash
- Business Focus:
 - Post Production Software Support
 - Worldwide Field Software Engineering
 - Engineering Support Services
 - Technical Software Support to Intelligence Training Systems
 - Training and Training Development

Ft. Monmouth, NJ

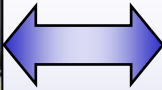
- Director: Ed Thomas
- Business Focus:
 - Software Engineering for Communications and Intelligence Electronic Warfare Systems



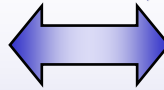
Warfighter Support Structure



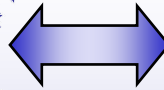
Software Engineering Depot



Global Operations Center



Regional Field Support (Subject Matter Experts)



On-Site Support



THE WARFIGHTER

CECOM Bottom Line: WARFIGHTER



Introduction

In a Recent Article in National Defense Magazine, Lawrence P. Farrell Jr. Stated:

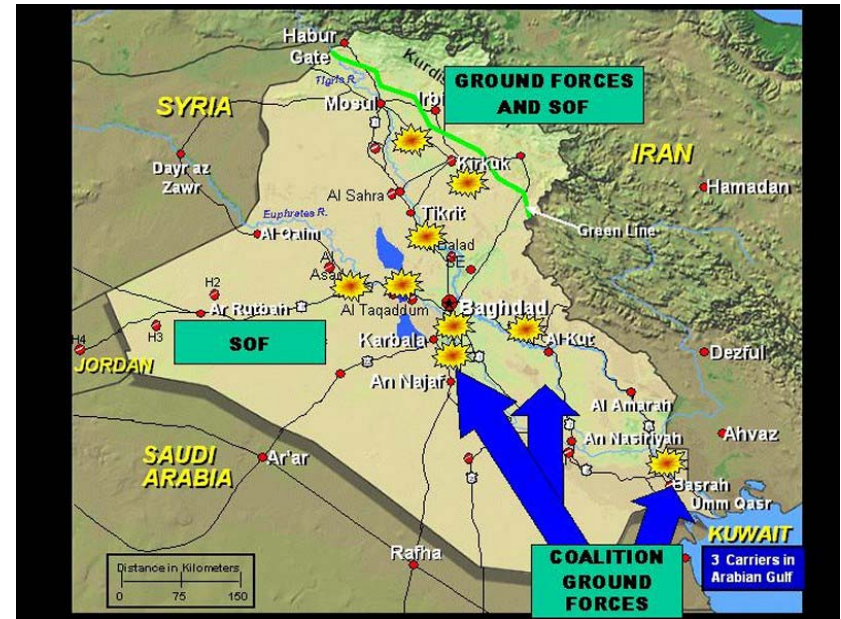
“. . . new agencies—as well as existing ones with new missions—tend to stove-pipe their activities, especially with respect to information. It is important to counter this tendency and to promote collaborative sharing of information.”

(Farrell, 2002)



Background

- Engineers Embedded With Army Units
- Direct And Timely Support To The Warfighter
- Investigate, Isolate, Repair, And Report Software Anomalies
- Rapidly Adapt The Intelligence Architecture





Scenario

“Intelligence analysts operating in geographically distributed locations have a limited capability to interact and collaborate on intelligence products. Stove-piped intelligence dissemination systems limit access to intelligence products and provide a limited capability to search or browse databases and perform comparative analysis.”

(Alberts, 1999, p. 114)



Scenario



- How to Track Detainees
- Large SASO Database
- Could Not Easily Share Information
- Stove-Piping Information
- Web Application Needed





Leveraging Technology



- **ColdFusion™**
- **Rapid Application Development**





Leveraging Technology

ColdFusion/Detainee Database Enhancements to All Source Analysis System – Light (ASAS-Light)



Relationship Tracking

Security Policy
UNCLASSIFIED

Combined Joint Task Force 7

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Main Menu

- Home
- Detainees
- Entities
- Individuals
 - List All Individuals
 - List Captured
 - List Not Captured
 - List Released
- Events
- Organizations
- Relationships
- Search Forms

Database Counts

- Individuals : 5000
- Events : 4999
- Organizations : 1004
- Relationships : 2043
- Multimedia : 41

Quick Search

Organizations

Displaying 1 to 25 of 1004 Records Export Options: [Next](#) ▶

Organization Name ▼	Relationships	Source	Classification
Al-Gama'a al-Islamiyya (Islamic Group)	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
Brotherhood for Islam UNited Cell A	25	CAMG2FSE0Vadministrator	UNCLASSIFIED
Brotherhood for Islam UNited Cell B	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
Brotherhood for Islam UNited Cell C	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
Brotherhood for Islam UNited Cell D	2	CAMG2FSE0Vadministrator	UNCLASSIFIED
Brotherhood for Islam UNited Cell E	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
Brotherhood for Islam UNited Cell F	2	CAMG2FSE0Vadministrator	UNCLASSIFIED
Front for Islamic Jihad Liberatiron	0	CAMG2FSE0Vadministrator	UNCLASSIFIED
Front for Islamic Peoples Independance	0	CAMG2FSE0Vadministrator	UNCLASSIFIED
Islamic Alliance for United Arab States	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
Islamic Alliance of Power	0	CAMG2FSE0Vadministrator	UNCLASSIFIED
Islamic Alliance of Universal Power	0	CAMG2FSE0Vadministrator	UNCLASSIFIED
Stronghold for SUni Dominance	2	CAMG2FSE0Vadministrator	UNCLASSIFIED
Stronghold for Shiite Dominance	0	CAMG2FSE0Vadministrator	UNCLASSIFIED
Stronghold for a Islamic Power	0	CAMG2FSE0Vadministrator	UNCLASSIFIED
Stronghold for a United Islam	0	CAMG2FSE0Vadministrator	UNCLASSIFIED
Suni Alliance of Power	2	CAMG2FSE0Vadministrator	UNCLASSIFIED
United Brotherhood of Islam Group A	5	CAMG2FSE0Vadministrator	UNCLASSIFIED
United Brotherhood of Islam Group B	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
United Brotherhood of Islam Group C	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
United Brotherhood of Islam Group D	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
United Brotherhood of Islam Group E	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
United Brotherhood of Islam Group F	1	CAMG2FSE0Vadministrator	UNCLASSIFIED
Abu Ghunaym Squad of the Hizballah Bayt Al-Maqdis	0	CAMG2FSE0Vadministrator	UNCLASSIFIED
Abu Ghunaym Squad of the Hizballah Bayt Al-Maqdis	0	CAMG2FSE0Vadministrator	UNCLASSIFIED

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UNCLASSIFIED

*Notional Data



Leveraging Technology

ColdFusion/Detainee Database Enhancements to All Source Analysis System – Light (ASAS-Light)



SASO Entity Tracking

Security Policy
UNCLASSIFIED

Combined Joint Task Force 7

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Database Counts

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- Multimedia : 41

Quick Search

Entity Attributes

Name: Mrs. Afaf, Abeer
DOP Status: UNKNOWN/Unknown
Birth Place:
Death Place:
Birth Date: Unknown
Death Date: Unknown
Subject:

ALL ENTITY MULTIMEDIA	
DATE AS OF	200401301624
DATE BEGIN	
DATE END	
DATE LAST MODIFIED	2004-01-30 16:24:14.107
ENTITY NAME	Afaf, Abeer
MASTER KEY	247a34b3-2fdd-4607-a4d7-3825eb8ec342
MULTIMEDIA TYPE	2
SECURITY ID	UNCLASSIFIED
SOURCE ID	CAMG2FSE0\administrator
URL	View Multimedia Popup Multimedia

(Click the links below to open or close the associated report.)

Open All Close All

[ALL_ENTITY_QUARTERS](#)
[ALL_ENTITY_MULTIMEDIA](#)
[ALL_ENTITY_MULTIMEDIA](#)
[ALL_INDIVIDUAL_VITALS](#)
[ALL_INDIVIDUAL_APPEARANCE](#)
[ALL_ENTITY_DETAILS](#)

Relationships

Displaying 1 to 6 of 6 Records Export Options:

Entity Name	Entity Type	Relationship Type	Entity Name	Entity Type
Afaf, Abeer	Individual	Confirmed	Warrior Tribes of Islam Cell Q	Organization
Afaf, Abeer	Individual	Confirmed	Zeelas Islamic Coalition	Organization
Afaf, Abeer	Individual	Confirmed	Warrior Tribes of Islam Cell P	Organization
Afaf, Abeer	Individual	Confirmed	New Babylon	Organization
National Liberation Army (ELN) - Bolivia / Nestor	Organization	Confirmed	Afaf, Abeer	Individual
Warrior Tribes of Islam Cell Q	Organization	Confirmed	Afaf, Abeer	Individual

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Leveraging Technology

ColdFusion/Detainee Database Enhancements to All Source Analysis System – Light (ASAS-Light)



Detainee Database


Security Policy
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- Relationships
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Database Counts



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- Organizations : 1004
- Relationships : 2043
- Multimedia : 41

Quick Search

Detainees

Displaying 1 to 25 of 41 Records Export Options: [Next](#)

Entity Name	Capture Tag	Capturing Unit	Place Held	Gender	Detainee Status	Capture Date	Estimated Release Date	Source	Classification
Aadab, Abeer	456	4ID	Baghdad		DETAINED	2004-01-29	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Aadil, Bishir	1	1-327, 101st	iraq	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Aagney, Abdul-Hameed	999999999	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Aagney, Amalendu-Hamed	8980	101st	Baghdad	M	DETAINED	2004-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Aagney, Omar-Kareem	2	3-187,101st	Ft Campbell	M	DETAINED	2003-01-22	2004-01-22	CAMG2FSE0VAdministrator	UNCLASSIFIED
Aalee, Abdul	245	4ID	Baghdad	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Aalla, Abdul	3343	10th Mtn Div	Al-Jafar	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Aamaal, Abeer	999999999	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Abdul	999999999	Not Entered	Not Entered	F	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Abed	999999999	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Abu	3	1-327, 101st	Ft Campbell	M	DETAINED	2004-01-02	2010-12-01	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Al	34	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Aleem	999999999	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Aleeem	5	101	fallujah	M	RELEASED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Ataa	4	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Azhar	6	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Dasel	8	101	Not Entered	M	RELEASED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Dawoud	9	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Fawaqaz	10	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Ghaalib	11	Not Entered	Not Entered	M	DETAINED	2004-01-09	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Haatim	999999999	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Hamza	999999999	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abaan, Izz udeen	7	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abba, Abdul	999999999	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED
Abdul-Hansaraj, Gangadutt	12	Not Entered	Not Entered	M	DETAINED	1999-01-20	2010-12-31	CAMG2FSE0VAdministrator	UNCLASSIFIED

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*Notional Data

Battlespace System Support

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Medhat Abuhantash - 13



Conclusion

- **Successful Application Of Technology To Eliminate The Stove-piping Of Information**
- **Powerful Tool for C2 Decision Making**
- **Improved Situational Awareness**



QUESTIONS?



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Backup Material





All Source Analysis System Light



ColdFusion/Detainee Database Enhancements

ColdFusion/Detainee Database Enhancements to All Source Analysis System-Light (ASAS-L) United States Army personnel deployed to Southwest Asia (SWA) are currently employing a capability developed in Macromedia ColdFusion™ to display Stability and Support Operations (SASO) information stored in the ASAS-L database in a standard web browser. This capability was initially developed by U.S. Army Communications-Electronics Command (CECOM), Software Engineering Center (SEC), Intelligence Fusion Systems (IFS) Field Software Engineers (FSE), and further refined by the CECOM SEC IFS Rapid Application Development (RAD) Team based upon requirements provided by Intelligence Office (I) (G-2) and Intelligence personnel within the Area of Operations (AO).

SASO Entity Tracking: The ColdFusion Enhancements (ENH) provide a consistent, comprehensive view of Individuals, Events, and Organizations (IE&O) entity types within the SASO Database on the ASAS-L. All displays of information for a particular entity include links to associated entities, multimedia, and relationships.

Export Capability: Entity lists, query results, or search results can be exported and saved on the user's local system as a Microsoft Excel™ spreadsheet, comma separated list, or in a printer-friendly text format.

Detainee Database: Incorporated with the addition of the ColdFusion ENHs is the ability to track individuals that have been detained, or detained and then subsequently released. The Detainee Database is a Microsoft SQL Server™ database that is resident on the ASAS-L, and contains additional information about an individual that has been detained or released such as: Capture Tag, Date of Capture, Expected Release Date, Capturing Unit, and Place Held.

SASO Entity Tracking: The ColdFusion Enhancements (ENH) provide a consistent, comprehensive view of Individuals, Events, and Organizations (IE&O) entity types within the SASO Database on the ASAS-L. All displays of information for a particular entity include links to associated entities, multimedia, and relationships.

Relationship Tracking: The ENHs provide a list of relationships and relationship types between each of the tracked entity types: IE&O within the SASO Database on the ASAS-L.

Other Capabilities:

Quick Search – Keyword Search (KWS) against all entity types.
Role Based Permissions – Guest, Administrator, and Detainee Admin roles to limit site permissions.
Advanced Search – Detailed search against all entity types using forms and Boolean logic.

Multimedia – Display of multimedia files associated with a particular entity: Images, Video, Audio, Documents, etc.

Entity Counts – Pie chart that indicates the number and type of entities in the ASAS-L SASO Database, with a corresponding legend and count.
Administrative Interface – Tools to manage temporary multimedia cache, user accounts, detainee information, and site look and feel.

Low Bandwidth – Design optimized for low bandwidth connections, paginated results lists, and limited use of images.

Detainee Database: Incorporated with the addition of the ColdFusion ENHs is the ability to track individuals that have been detained, or detained and then subsequently released. The Detainee Database is a Microsoft SQL Server™ database that is resident on the ASAS-L, and contains additional information about an individual that has been detained or released such as: Capture Tag, Date of Capture, Expected Release Date, Capturing Unit, and Place Held.

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Updated: 032204