

Advance Planning Briefing for Industry

20010611 052

*Network Centric Warfare: The Key to
Army Transformation and Future Victory*

7-8 May 2001

6

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DEPARTMENT OF THE ARMY

HEADQUARTERS, U.S. ARMY COMMUNICATIONS-ELECTRONICS COMMAND
AND FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY 07703-5000



REPLY TO
ATTENTION OF

Office of the Commanding General

Ladies and Gentlemen:

On behalf of the Army Command, Control, Communications, Computers, Intelligence, Electronics Warfare and Sensors (C4IEWS) Team, I am pleased to present these proceedings of the 2001 Advance Planning Briefing for Industry (APBI) entitled "Network Centric Warfare: The Key to Army Transformation and Future Victory." The objective of this publication and its accompanying CD-ROM is to provide industry with a comprehensive overview of our research and development programs, sustainment efforts and corresponding contract opportunities available to industry within the next five years.

The APBI Program continues to be one of our most successful ways to facilitate and maintain an active and on-going dialogue between the government and the industrial community. Communicating technological needs and information to Industry and soliciting Industry feedback is key to enabling a strategically responsive force in the future that is dominant across the full spectrum of operations.

It is my pleasure to welcome you to this year's annual APBI and I look forward to your participation.

Sincerely,

Robert L. Nabors
Major General, U.S. Army
Commanding

AQMO1-09-1575

NOTICE

This publication contains the briefings presented during this Advance Planning Briefing for Industry (APBI). Following the APBI, you may obtain a Proceedings Book for a minimal fee by contacting the Defense Technical Information Center (DTIC). The telephone number is: (800) 225-3842.

We hope that the above publication proves beneficial to your long-range planning efforts. If you have any additional questions and/or suggestions, please contact Denise Ellison, email: Denise.Ellison@mail1.monmouth.army.mil, (732) 532-8674.

DISCLAIMER

The use of trade names in this report does not constitute official endorsement of any products. This report may not be cited for purpose of advertisement.

The information provided is accurate as of the time of publication, and may be subject to change.

**THE OVERALL
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CONTENTS

	Page
WELCOMING REMARKS/NETWORK CENTRIC WARFARE BRIEFING	1
“SETTING THE PACE” IN CONTRACTING	3
THE “WIN-WIN” OF USING VALUE ENGINEERING	15
LOGISTICS AND READINESS CENTER CONTRACT OPPORTUNITIES.....	19
RESEARCH DEVELOPMENT AND ENGINEERING CENTER CONTRACT..... OPPORTUNITIES	35
PEO STAMIS CONTRACT OPPORTUNITIES	53
GUEST SPEAKER.....	59
PEO IEW&S CONTRACT OPPORTUNITIES	61
PEO C3S CONTRACT OPPORTUNITIES.....	75
SYSTEMS MANAGEMENT CENTER CONTRACT OPPORTUNITIES.....	79


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WELCOMING REMARKS

NETWORK CENTRIC WARFARE
BRIEFING

MG ROBERT L. NABORS


COMMANDING GENERAL
CECOM



CECOM ACQUISITION CENTER


"SETTING THE PACE IN INNOVATIVE BUSINESS SOLUTIONS"

*Presented by: Michael R. Kelemen
Acting Director, Acquisition Center
8 May 2001
Phone: (732) 532-5603
Email: Michael.Kelemen@Mail1.monmouth.army.mil*




CECOM Bottom Line: THE SOLDIER

Page #1 of 31

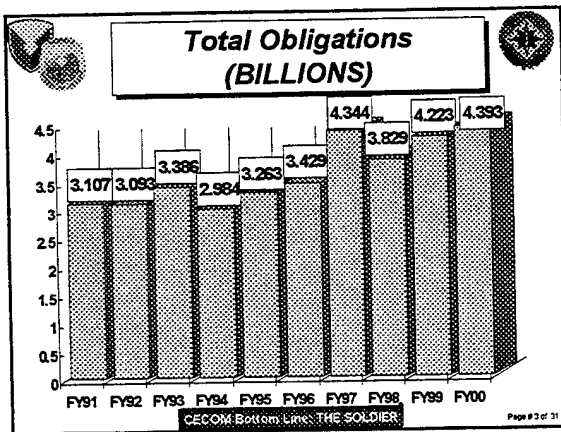



CECOM ACQUISITION CENTER

The Year in Review




Page #2 of 31






AMC Obligations Over \$25,000




FY00 COMMAND	#1 IN AMC NO. OF ACTIONS	#3 IN AMC TOTAL DOLLARS (MIL)
CECOM	8,101	4,392.2
TACOM	5,111	5,027.0
AMCOM	6,036	6,721.7
AMCAC	3,715	1,309.6
OSC	1,527	1,557.6
OTHER AMC	985	285.6
TOTAL AMC	25,475	19,294.8


CECOM Bottom Line: THE SOLDIER Page # 4 of 31




SUMMARY OF CONTRACT OPPORTUNITIES FOR LAST YEAR



CECOM Bottom Line: THE SOLDIER Page # 5 of 31



Overall Summary



	<u>AWARDED</u>	<u>ON-GOING</u>	<u>POSTPONED</u>	<u>CANCL</u>
RDEC	10 \$1,007,957,134	19 \$293-579M	NONE	7 \$866-869M
ISEC	NONE	NONE	NONE	NONE
SMC	1 \$1,472,000,000	5 \$51-80M	NONE	NONE

CECOM Bottom Line: THE SOLDIER Page # 8 of 31

Overall Summary (CONT)				
	<u>AWARDED</u>	<u>ON-GOING</u>	<u>POSTPONED</u>	<u>CANCL</u>
LRC	8	20	NONE	5
	\$114,280,567	\$54-588M		\$84-114M
SEC	1	1	NONE	NONE
	\$3,000,000	\$1.4B		
PEO	1	2	NONE	NONE
C3S	\$181,600,000	\$134-224M		
PEO	2	10	1	1
IEW&S	\$89,000,000	\$1.399-1.452B	\$TBD	\$30-40M

CECOM Bottom Line: THE SOLDIER Page #7 of 31

Overall Summary (CONT)				
	<u>AWARDED</u>	<u>ON-GOING</u>	<u>POSTPONED</u>	<u>CANCL</u>
PEO	1	6	NONE	NONE
STAMIS	\$77,605,714	\$550-800M		
Bus Funct'l Area	1			
Spt Svcs	\$28,013,047			
Tobyhanna Base Op		1		
CA Study		TBD		
FMG Base Op CA STUDY		1		
		TBD		

CECOM Bottom Line: THE SOLDIER Page #8 of 31

Overall Summary (CONT)				
	<u>AWARDED</u>	<u>ON-GOING</u>	<u>POSTPONED</u>	<u>CANCL</u>
IMA CA STUDY		1		
		TBD		
BASEOPS SERVICES		1		
		\$300M		
TOTAL PROGRAMS	25	67	1	13
TOTAL AMOUNT	\$2.97B	\$4.150-5.145B	\$TBD	\$980M-1.23B

CECOM Bottom Line: THE SOLDIER Page #9 of 31

Top 10 Large Businesses (FY 2000)

▪GENERAL DYNAMICS	358,366,890
▪RAYTHEON	336,749,222
▪LOCKHEED	287,283,547
▪CSC	268,064,333
▪TRW	158,251,232
▪ARINC	140,101,768
▪ITT	112,111,593
▪MOTOROLA	105,699,633
▪SAIC	95,892,764
▪LEAR SIEGLER	81,057,835

CECOM Bottom Line: THE SOLDIER Page #10 of 31

Top 10 Small Businesses (FY 2000)

▪MANTECH	59,046,260
▪SYTEX	42,531,254
▪CONDOR SYSTEMS	26,1286,173
▪FIBERTEK	25,479,153
▪E-OIR	24,241,590
▪LAGUNA INDUSTRIES	21,924,154
▪MC II GENERATOR	17,863,924
▪INSIGHT TECHNOLOGY	13,837,179
▪SAFT AMERICA	11,687,297
▪ADVANCED ELECTRONIC	8,309,727



CECOM Bottom Line: THE SOLDIER Page #11 of 31

Customer Distribution

Customer Distribution
Part No. 00000000
Mat. Order

Part No.	Mat. Order	Percentage
00000000	0000	14.2%
	0001	14.2%
	0002	14.2%
	0003	14.2%
00000001	0000	22.1%
	0001	22.1%
	0002	22.1%
	0003	22.1%
00000002	0000	18.1%
	0001	18.1%
	0002	18.1%
	0003	18.1%

CECOM Bottom Line: THE SOLDIER Page #12 of 31






**SERVICE
CONTRACTING**

An Opportunity for Change

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Page #13 of 31

**Services – A Big Part
Of Our Business**

▪ \$200 M in FY 1998
▪ \$400 M in FY 2000

↑



...AND GROWING!

**ALREADY OVER
\$300 M!!!
FY 2001**

**FUNDED FROM
CECOM'S MOST
DIFFICULT
ACCOUNTS!**

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Page #14 of 31


Service Contracting

New administration will continue to support efforts to reduce the size of government creating:


- Increased reliance on service contracting
- Increased oversight

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Page #15 of 31




Service Contracting




Visibility:

- **Congressional interest – GAO Report GAO-01-295**
 - DoD spent > \$100B in 2000
 - Classification of services
- **OMB Memo M-01-15**
 - Greater use of performance-based contracts
 - Reporting requirements

CECOM Bottom Line: THE SOLDIER Page # 16 of 31



Service Contracting



Trend:

- Increasing reliance...
- Increasing expenditures...
- Increasing oversight...

Opportunity:

- Revolutionize Service Contracting Practices:
 - Focus on improving the efficiencies and effectiveness of service contracting processes
 - MAXIMIZE your profits and our RESULTS

CECOM Bottom Line: THE SOLDIER Page # 17 of 31





AMC Recognition



- **CECOM's reputation as a proactive leader in innovative business solutions and reform initiatives**
 - December 2000 AMC designated CECOM "Service Contracting Center of Excellence" for Major Systems

CECOM Bottom Line: THE SOLDIER Page # 18 of 31



Strategy

An integrated, multi-faceted approach that:

- Drives towards increasing efficiencies while continuing to meet user needs
- Challenges regulatory and statutory impediments
- Solicits good ideas and best business practices from our industry partners

No Silver Bullet

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User needs

Focus Areas:

- Management plan for individual contract oversight
- Coordinate requirements - avoid duplications
- Develop metrics for measuring performance

Changing the Culture

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Regulatory And Statutory Issues


Focus Areas:

Address issues that impede meaningful reform:

- Competition requirements
- Personal services restrictions
- Long term pricing schemes

Removing Barriers

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Best Business Practices


Focus Areas:

Harvest good ideas through,

- Joint industry and government seminars
- Engaging in continuous discussion with all stakeholders early and often
- Establishing service contract website

Partnering Towards Our Future

CECOM Bottom Line: THE SOLDIER Page # 22 of 31



Service Contracting

SETTING THE PACE...

...EFFICIENCIES THROUGH INNOVATION!!!

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First Steps

- **Promoting a cultural migration**
 - Measure efficiencies for every service dollar obligated
 - Activities will develop business plans for managing the resultant contract
 - Performance evaluations, manage efficiencies, metrics, partnering

CECOM Bottom Line: THE SOLDIER Page # 24 of 31

Steps Continued

- *Performance based techniques will be utilized wherever possible*
- *Alternate proposals will be encouraged and evaluated*
- *Our goal of 100% will enable CECOM to ride the crest!*

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Steps Continued

- *Draft legislative initiative for a change to statutory authority*
- *Non-competitive follow-on efforts when a contractor's past performance has been determined to be "exceptional"*
- *Alternatives to long term pricing will be explored*
- *"Innovation in Service Contracting" checklist being developed*

CECOM Bottom Line: THE SOLDIER Page # 26 of 31

Steps Continued

- *One-on-One discussions shall be offered until release of the solicitation*
- *Provides the "open door" for contractors to communicate with the requiring activity*
- *Contractors will be requested to submit self-evaluations for performance under each task order and periodic reviews will be held*
- *Enhances communication and provides additional form of input for government evaluation*

CECOM Bottom Line: THE SOLDIER Page # 27 of 31

Steps Continued

- *All task orders will challenge offerors to address effectiveness and efficiencies during performance*
 - *Each task order will request offerors to address measured efficiencies and effectiveness in their proposals and ultimate performance*
- *Contractors will be requested to propose metrics and incentives tailored to each task order*
 - *Metrics that make the most sense*

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Key To Future State

To Continuously Challenge Ourselves ...

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Revolutionizing Service Contracting

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 **Contract Title** 

- OBJECTIVE:
- CONTRACT TYPE:
- ESTIMATED VALUE:
- KEY MILESTONES:
- TECHNICAL CONTACT:
- ACQUISITION CONTACT:
- SOLICITATION # or RFQ #:

SECOM Bottom Line: THE SOLDIER Page #37 of 31

CECOM Logistics and Readiness Center

The "Win-Win" of Using Value Engineering

Mr. Anthony A. LaPlaca
 Director, CECOM Logistics and Readiness Center

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Value Engineering


An organized effort directed at analyzing the functions of requirements, equipment, facilities, systems, methods, processes, services and supplies for the purpose of achieving the required function(s) at the best value

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Government Share of Savings

<u>FY</u>	<u>Total(M)</u>	<u>VEP</u>	<u>VECP</u>
96	\$39.4	\$ 5.5	\$33.9
97	\$16.1	\$ 6.2	\$ 9.9
98	\$49.8	\$21.1	\$28.7
99	\$47.2	\$46.4	\$ 0.8
00	\$54.6	\$54.3	\$ 0.28
	\$207.1	\$133.5	\$73.58

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Increased Incentives




DOD MODIFIED FAR VE clause:

Was		Now
50% of Acq Savings	➔	Up to 75%
Sharing period: 3 years		Up to 5 years
20% of Collateral (O&S) Savings	➔	Up to 100%

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Value Engineering Workshop




An opportunity for the contractor:


- Free training "Learn a proven methodology that can be applied on other programs or systems"
- Partnering with us to identify cost reduction/system enhancement. "Customer buy-in; expedited processing"
- Improve profit margin "Contractor keeps/shares savings"
- Identifies process improvements
- Become more competitive
- Share risk
- Increase "Customer satisfaction"

A proactive approach to teaming with government, targeting opportunities for cost savings and process enhancement

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Workshops Summary

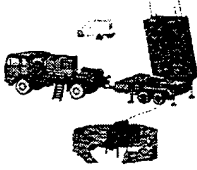


- VE savings generated: \$27.8M
- Workshops held since FY 96: 41
- Ideas generated: 193
- VEPs/VECPs implemented: 22
- Remaining ideas with potential VE action: 80

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Hardware Improvement
Value Engineering Workshop
AN/TPQ-47 Block II Firefinder - EMD

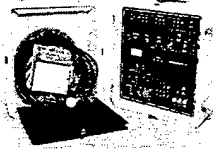


- Design improvements to the Sub-Array Module (SAM) will result in 35% parts reduction, 100-lb weight reduction per system, simplified packaging and assembly, and improved reliability.
- The SAM improvements will result in an estimated \$49M hardware savings over 6 production years (400 per system, 72 systems), with \$3M non-recurring engineering costs; implementation is in FY 02.

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Process Improvement
Value Engineering Workshop
ASN-128 Doppler Navigation System



- Field a breakout box for Army Doppler Navigation Systems to reduce no evidence of failure returns from the field
- Reported 3-year VEP savings: \$7.4M
- Net 10 year projected Savings/benefits: \$25M



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Software Service Improvement
Value Engineering Proposal
Software Security Certification & Accreditation

- Security C&A required on all fielded systems
- Standard Method: Acquire contractor support on T&M basis
- VE Alternative: Provide incentives to encourage contractor investment in developing and employing automated tools, providing C&A services as a complete product on firm fixed-price basis
- VE initiative resulted in life-cycle savings of 33% per system
- Savings: \$38,000 for initial C&A service & \$117,000 for subsequent service over a 4-year cycle. Total projected savings over 4 yrs: \$13M



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**VECPs Developed
During VE Workshops**

- **PP-7815 Power Processor** – Modularized CCA, improved producibility & reliability, COTS technology upgrade. **Total VECP savings: \$763K**, contractor shared \$225K
- **Firefinder V(8) Shelter** – Replaced obsolete government-provided mass storage unit with COTS CD unit. **Total VECP savings: \$786K**, contractor shared \$393K
- **Joint Tactical Terminal** – Transceiver Tray redesigned to reduce noise, weight, cost. **Total VECP savings: \$1.14M**, contractor shared \$259K
- **Joint Tactical Terminal** – Automated frequency standard calibration process, improved readiness, reduced maintenance; VECP with \$96K Annual collateral savings

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Points of Contact


VALUE CONCEPTS OFFICE

ANDREW LEE
(732) 532-2318
e-mail: andrew_lee2@mail1.monmouth.army.mil

CYNTHIA LOVEKIN
(732) 532-1604
e-mail: cynthia_lovekin@mail1.monmouth.army.mil


VCO WEB SITE
<http://www.monmouth.army.mil/cecom/lrc/specstd/ve>

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CECOM Logistics and Readiness Center

Contract Opportunities




Mr. Anthony A. LaPlaca
 Director, CECOM Logistics and Readiness Center

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Flexible Long-Term Contracts (FLTCs)


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Flexible Long Term Contracts (FLTCs)

- FLTCs are range quantity contracts of three or more years covering the production and/or repair of one or more spare parts.
- FLTCs are the preferred method for spares
- All FLTCs projected for FY00-01 are Best Value
- FY98 FLTC baseline: 71% of spares purchases
- FY99 FLTC Goal: 75% of spares purchases
 –Actual performance in FY99: 78%
- FY00 FLTC Goal: 85% of spares purchases
 –Actual performance in FY00: 86.1%
- FY01 FLTC Goal: 85% of spares purchases

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Long-Term Contract Definitions




Indefinite Delivery Indefinite Quantity (IDIQ) Contract: A vehicle that provides for an indefinite quantity, within stated limits, of specific supplies or services during a fixed period, with deliveries to be scheduled by placing orders with the contractor. The Government is obligated to a stated minimum. Funds other than the minimum are obligated at the time of subsequent orders.

Requirements Contract: An instrument that provides for filling all purchase requirements of designated Government activities for specific supplies or services during a specified contract period with deliveries to be scheduled by placing orders with the contractor. No money is obligated at award; funds are obligated when delivery orders are written. There is no guaranteed minimum quantity.

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FLTCs Projected for FY01-05




- AN/APR-39A(V) Radar Warning Receiver
- AB-1386/U Quick Erect Antenna Mast (QEAM)
- 350k BTUH Large Cap. Field Heater
- Aircraft Batteries
- Non-Rechargeable Batteries – Next Gen II
 - Cylindrical Lithium Manganese Dioxide Group
 - Lithium Sulfur Dioxide Group
 - Rectangular Lithium Manganese Dioxide Group
 - Small Cell Lithium Manganese Dioxide Group
- CN-1314()A Displacement Gyroscope

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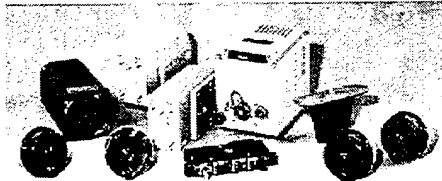
FLTCs Projected for FY01-05 (continued)



- Main Alternators for Mil Std Generator Sets
- Overspeed Switches for the 15kw, 30kw & 60kw Mil Std Gen Set
- 5 and 10 KW Engines
- AN/VIC-1 Intercom System Spares
- AN/PRC-127B Radio Set
- Spares for AN/ALQ-144A(V) Countermeasure Set

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**Spares for the AN/APR-39A(V)
Radar Warning Receiver**



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**Spares for the AN/APR-39A(V)
Radar Warning Receiver**

- Radar Warning Receiver
- Provides warning of radar directed air defense threat systems
- Upgraded version of the AN/APR-39(V) system
- Utilizes a digital processor, alphanumeric display and a synthetic voice to warn pilot
- Applicable Aircraft:
AH-1F, AH-64A/D, CH-47D, UH-60A/L,
UH-60Q (MEDEVAC), MH-60K, OH-58C&D

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**Spares for the AN/APR-39A(V)
Radar Warning Receiver**

- **Objective:** To recomplete the current spares contract (22 NSNs)
- **Contract Type:** IDIQ, 10 years
- **Estimated Value:** \$1M - \$20M
- **Key Milestones:** RFP: Jul 2001
Award: Nov 2001
- **Technical Contact:** Skip Rummel, 732-427-5154
- **Acquisition Contact:** Kevin Coakley, 732-427-1506
- **Solicitation #:** DAAB07-01-R-B219

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AB-1386/U Quick Erect Antenna Mast

HMMWV CONFIGURATION

GROUND MOUNT CONFIGURATION

TRACK VEHICLE CONFIGURATION

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AB-1386/U Quick Erect Antenna Mast

- Man portable, telescopic Mast Assembly, manually erectable up to a height of 10 meters
- Includes all hardware to deploy the mast in a ground mount configuration
- Mast will mount and enable operation of the AS-3166, MP-68, AS-4292 and EPLRS antennas
- Mast can be used in vehicular application using MT-6967/G HMMWV Mount Kit or MT-6968/G Tracked Vehicle (M-577) Mount Kit

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AB-1386/U Quick Erect Antenna Mast

- **Objective:** To award QEAM AB-1386/U with ancillary Vehicle Mounts
- **Contract Type:** IDIQ, 2 years
- **Estimated Value:** \$2M - \$10M
- **Key Milestones:** RFP: Nov 2001
Award: Jan 2002
- **Technical Contact:** Mario Ambrosio, 732-427-4097
- **Acquisition Contact:** Kathleen Davis, 732-532-5568
- **Solicitation #:** DAAB07-01-R-C008

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350,000-BTU/HR
Large Capacity Field Heater (LCFH)



CECOM Bottom Line: The Soldier

350,000-BTU/HR
Large Capacity Field Heater (LCFH)

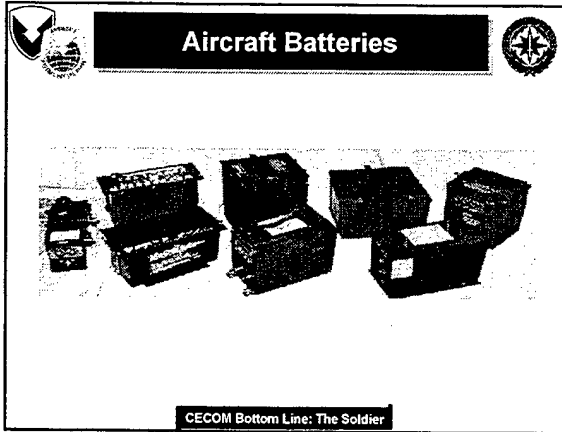
- Replaces outdated field heaters which currently supply heated air to personnel and equipment in moderate to extreme cold environmental locations worldwide
- Self-powered, provides re-circulatory air, and operates on JP-8 and diesel fuels
- Delivers clean, heated and ventilated air through sealed detachable, flexible ducts
- Will have a protective enclosure, be trailer mounted for local movement and positioning, and withstand arctic environmental conditions.

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350,000-BTU/HR
Large Capacity Field Heater (LCFH)

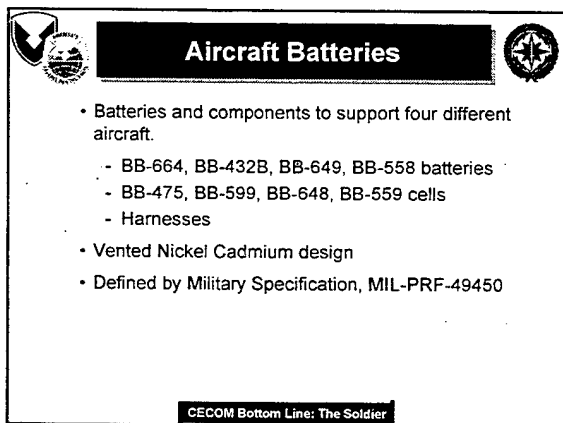
- **Objective:** Competitive R&D (Engineering Manufacturing, Development (EMD) Effort) with a follow-on Production Contract
- **Contract Type:** IDIQ-EMD in base year plus Hardware option subsequent 9 years
- **Estimated Value:** \$780K - \$27.5M
- **Key Milestones:** RFP: Jul 2001
Award: Oct 2001
- **Technical Contact:** Pete Shively, 703-704-2016
- **Acquisition Contact:** Peggy Butler, 703-325-4994
- **Solicitation #:** DAAB15-01-R-1012

CECOM Bottom Line: The Soldier



Aircraft Batteries

CECOM Bottom Line: The Soldier



Aircraft Batteries

- Batteries and components to support four different aircraft.
 - BB-664, BB-432B, BB-649, BB-558 batteries
 - BB-475, BB-599, BB-648, BB-559 cells
 - Harnesses
- Vented Nickel Cadmium design
- Defined by Military Specification, MIL-PRF-49450


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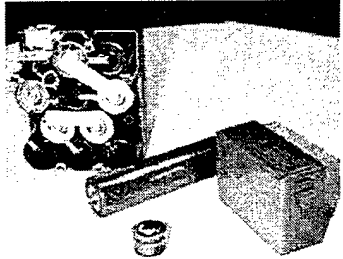
Aircraft Batteries

- **Objective:** Acquire established design of up to 10 aircraft batteries and components to support four different aircraft
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$2M-\$4M
- **Key Milestones:** IFB: 31 May 2001
Award: Aug 2001
- **Technical Contact:** Long Phan, 732-532-8767
- **Acquisition Contact:** Theodore Kordower, 732-427-6095
- **Solicitation #:** DAAB07-01-B-A506


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Next Generation II Non-Rechargeable Batteries




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Next Generation II Non-Rechargeable Batteries

- Five-year IDIQ acquisition for entire family of high performance lithium non-rechargeable C-E batteries used in communications and Night Vision systems.
- Comprised of four separate solicitations defined by Military Specification, MIL-PRF-49471B
- Dual awards (60/40 split) planned for each solicitation
- Sixty percent portion of each solicitation limited to domestic sources



CECOM Bottom Line: The Soldier



Next Generation II Cylindrical Li/MnO₂



- **Objective:** Establish production capabilities for Cylindrical Lithium Manganese Dioxide (Cylindrical Li/MnO₂) batteries.
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$9M-\$12M
- **Key Milestones:** RFP: Aug 2001
Award: Nov 2001
- **Technical Contact:** Marc Gietter, 732-532-6764
- **Acquisition Contact:** John Adamitis, 732-532-3473
- **Solicitation #:** DAAB07-01-R-A264

CECOM Bottom Line: The Soldier

 **Next Generation II
Li/SO₂** 



- **Objective:** Maintain Lithium Sulfur Dioxide (Li/SO₂) production capability.
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$35M-\$170M
- **Key Milestones:** RFP: May 2001
Award: Jul 2001
- **Technical Contact:** Marc Gietter, 732-532-6764
- **Acquisition Contact:** John Adamitis, 732-532-3473
- **Solicitation #:** DAAB07-01-R-A265

CECOM Bottom Line: The Soldier

 **Next Generation II
Rectangular Li/MnO₂** 

- **Objective:** Establish production capabilities for Rectangular Lithium Manganese Dioxide (Li/MnO₂) batteries. Proposals limited to Cylindrical/Pouch Li/MnO₂ cell technology.
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$10M-\$20M
- **Key Milestones:** RFP: Aug 2001
Award: Nov 2001
- **Technical Contact:** Marc Gietter, 732-532-6764
- **Acquisition Contact:** John Adamitis, 732-532-3473
- **Solicitation #:** DAAB07-01-R-A266

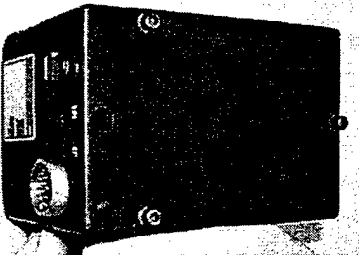
CECOM Bottom Line: The Soldier

 **Next Generation II
Small Cell Li/MnO₂** 

- **Objective:** Maintain Small Cell Lithium Manganese Dioxide (Small Cell Li/MnO₂) production capability.
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$10M-\$35M
- **Key Milestones:** RFP: Jul 2001
Award: Sep 2001
- **Technical Contact:** Marc Gietter, 732-532-6764
- **Acquisition Contact:** John Adamitis, 732-532-3473
- **Solicitation #:** DAAB07-01-R-A267

CECOM Bottom Line: The Soldier

**CN-1314()A
Displacement Gyroscope**



CECOM Bottom Line: The Soldier

**CN-1314()A
Displacement Gyroscope**


- The CN-1314 Displacement Gyro is used in the aircraft to sense angular distance in the Pitch Axis (Dive and Climb) and Roll Axis (left bank and right bank) and transmit this information to the pilot's Indicator and the aircraft's Autopilot.

CECOM Bottom Line: The Soldier

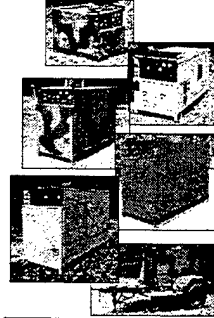
**CN-1314()A
Displacement Gyroscope**

- Objective:** To procure CN-1314 Displacement Gyroscopes that are Form, Fit and Function interchangeable (F3) from a proven contractor who possesses the facilities and capabilities to design, develop, test and produce the CN-1314 Gyroscope
- Contract Type:** IDIQ, 5 years
- Estimated Value:** \$2.7M-\$13.5M
- Key Milestones:** RFP: Jul 2001
Award: Nov 2001
- Technical Contact:** Charles Rigoglioso, 732-532-3394
- Acquisition Contact:** Kevin Coakley, 732-427-1506
- Solicitation #:** DAAB07-01-R-B418


CECOM Bottom Line: The Soldier



Main Alternators for Mil Std Generator Sets




CECOM Bottom Line: The Soldier



Main Alternators for Mil Std Generator Sets

- Procurement of generators, alternators and generator parts for Tactical MIL STD Generators. These tactical MIL STD Generators have a power range from 1.5KW to 60KW, and frequencies ranges of 60Hz and 400Hz.
- The generators being procured are drip-proof, rotating field, synchronous, fan-cooled units.
- Mounting for these generators is normally provided by the generator feet bolted to the skid base and housing bolted to the engine flywheel housing.
- Rotational power is provided by the blower and coupling assembly, which is bolted to the generator rotor shaft and engine flywheel.
- Some the end items that the generators and parts will be used in are MEP-002A, 003A, 0004, 0005A & 016A.

CECOM Bottom Line: The Soldier

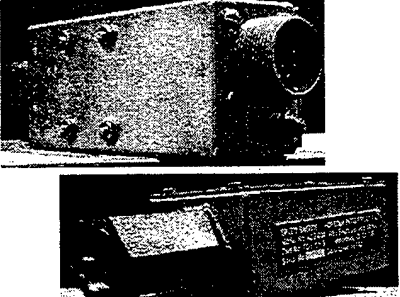


Main Alternators for Mil Std Generator Sets

- **Objective:** To procure generators, alternators and generator parts for Tactical MIL STD Generators.
- **Contract Type:** IDIQ, 10 years
- **Estimated Value:** \$3M-\$14.2M
- **Key Milestones:** RFP: Jun 2001
Award: Sep 2001
- **Technical Contact:** Norman Jarrett, 732-427-3296
- **Acquisition Contact:** Karin Bogner, 732-427-1605
- **Solicitation #:** DAAB07-01-R-D612

CECOM Bottom Line: The Soldier

**Overspeed Switches for the
15kw, 30kw, 60kw Mil Std Gen Sets**



CECOM Bottom Line: The Soldier

**Overspeed Switches for the
15kw, 30kw, 60kw Mil Std Gen Sets**

- Provide sequenced control of circuits during engine startup and protection against engine overspeed during operation.
- Three sets of contact elements, S9-1, S9-2, and S9-3, contained in the speed switch, are set to open, close, or transfer at certain engine speeds.
- The speed switch drive gear is designed to drive the speed switch at one-half engine speed.

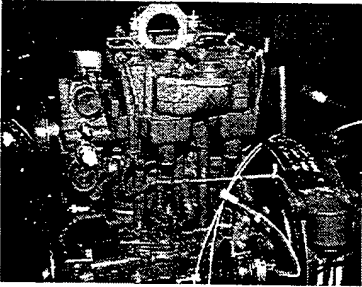
CECOM Bottom Line: The Soldier

**Overspeed Switches for the
15kw, 30kw, 60kw Mil Std Gen Sets**

- **Objective:** To award a contract for three Overspeed Switches
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$100K-\$1.6M
- **Key Milestones:** RFP: Dec 2001
Award: Mar 2002
- **Technical Contact:** Nicholas Petouses, 732-532-7122
- **Acquisition Contact:** Karin Bogner, 732-427-1605
- **Solicitation #:** DAAB07-01-R-D606

CECOM Bottom Line: The Soldier

5 and 10 KW Engines



CECOM Bottom Line: The Soldier

5 and 10 KW Engines

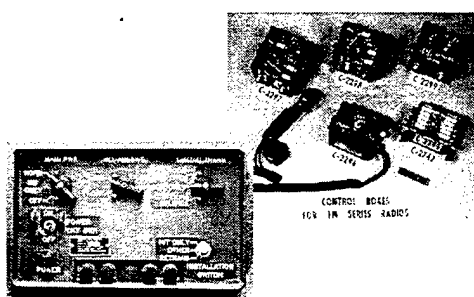
- Generators powered by a two/four cylinder, four cycle, fuel injected, naturally-aspirated, liquid-cooled diesel engine which occupies the front half of the generator set
- The engine is also equipped with a fuel filter/water separator, oil filter, and an air cleaner assembly
- Protection devices automatically stop the engine during conditions of high coolant temperature, low oil pressure, no fuel, and over voltage

CECOM Bottom Line: The Soldier

5 and 10 KW Engines

- Objective:** To award a follow-on acquisition IAW EPA requirements
- Contract Type:** IDIQ, 10 years
- Estimated Value:** \$5M-\$6M
- Key Milestones:** RFP: Jul 2004
Award: Nov 2004
- Technical Contact:** Norman Jarrett, 732-427-3296
- Acquisition Contact:** Yvonne Hicks Bova, 732-532-3829

CECOM Bottom Line: The Soldier



AN/VIC-1 Intercom System

CONTROL BOXES FOR IN SERIES RADIOS

CECOM Bottom Line: The Soldier

AN/VIC-1 Intercom System Spares

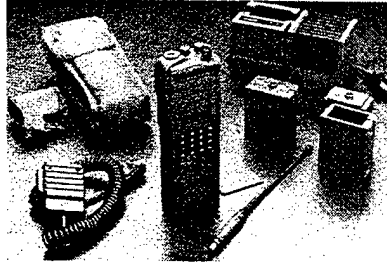
- Intercommunication Set which provides voice communication between crewmembers of a vehicle & between vehicles via radio (AN/VRC-12 & SINGARS).
- A variety of Installation Harnesses are used in different vehicular configurations. Each configuration is a different variant of the AN/VIC-1.
- Components AM-1780B & Control Boxes are requisitioned by the field to sustain the AN/VIC-1(V).

CECOM Bottom Line: The Soldier

AN/VIC-1 Intercom System Spares


- **Objective:** To complete the AN/VIC-1 and its five spares
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$8M-\$13.5M
- **Key Milestones:** RFP: Aug 2001
Award: Nov 2001
- **Technical Contact:** Dylan Chung, 732-532-9181
- **Acquisition Contact:** John Onieal, 732-427-1589

CECOM Bottom Line: The Soldier



AN/PRC-127B Radio Set


CECOM Bottom Line: The Soldier



AN/PRC-127B Radio Set

- Upgraded version of the AN/PRC-127A Radio Set.
- The AN/PRC-127B will be a non-militarized commercial off-the-shelf, short range, hand held radio set and is a secondary item.
- Maximum Size: 3" x 8.5" x 2.25" with battery
- Maximum Weight: Less than 40 ounces including battery and antenna.
- Frequency Range: 136-160 MHz
- Provide two-way voice communication at ranges up to 3 KM.

CECOM Bottom Line: The Soldier

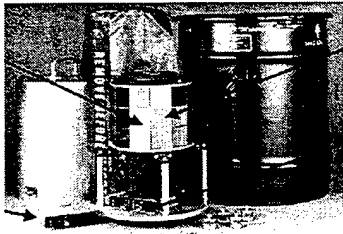


AN/PRC-127B Radio Set

- **Objective:** To procure a new state-of-the-art commercial-off-the-shelf (COTS) two way hand-held non-tactical radio.
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$15M - \$25M
- **Key Milestones:** RFP: Jun 2001
Award: Nov 2001
- **Technical Contact:** Henry Louie, 732-532-9178
- **Acquisition Contact:** Vernay Salas, 732-532-1257

CECOM Bottom Line: The Soldier

**Spares for the AN/ALQ-144A(V)
Countermeasure Set**



CECOM Bottom Line: The Soldier

**Spares for the AN/ALQ-144A(V)
Countermeasure Set**

- Infrared (IR) Countermeasure Set
- An active, continually operating, omni-directional and electrically fired IR jammer
- Upgraded version of the AN/ALQ-144(V) system
- Applicable Aircraft:
AH-1F, AH-64A/D, UH-60A/L, UH-60Q
(MEDEVAC), MH-60K, OH-58C&D

CECOM Bottom Line: The Soldier

**Spares for the AN/ALQ-144A(V)
Countermeasure Set**

- **Objective:** To recomplete the current Small Business spares contract (9 NSNs)
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$1M - \$9M
- **Key Milestones:** RFP: May 2004
Award: Sep 2004
- **Technical Contact:** Hae Rhee, 732-427-5178
- **Acquisition Contact:** Vernay Salas, 732-532-1257

CECOM Bottom Line: The Soldier




**Spares for the AN/ALQ-144A(V)
Countermeasure Set**




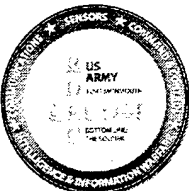
- **Objective:** To recomplete the current Full and Open spares contract (15 NSNs)
- **Contract Type:** IDIQ, 5 years
- **Estimated Value:** \$1M - \$20M
- **Key Milestones:** RFP: Jan 2005
Award: May 2005
- **Technical Contact:** Hae Rhee, 732-427-5178
- **Acquisition Contact:** Vernay Salas, 732-532-1257

CECOM Bottom Line: The Soldier



Research, Development And Engineering Center Contract Opportunities






By:

Dr. Louis C. Marquet
Director
Research, Development and
Engineering Center

CECOM Bottom Line: THE SOLDIER





INFORMATION SUPERIORITY


Important to the
Outcome of Battle

NETWORK CENTRIC
WARFARE

Important to every
Soldier/Commander

Important to
every Platform

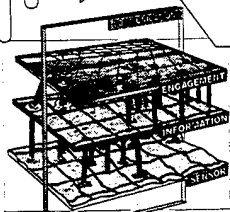


**Objective Force
FCS**


is
ENABLED
by...

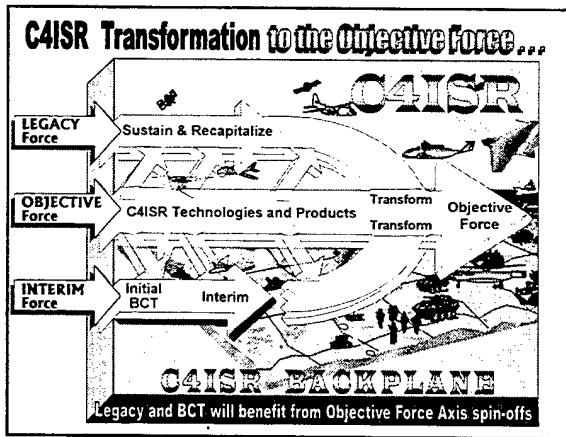
INFORMATION SUPERIORITY

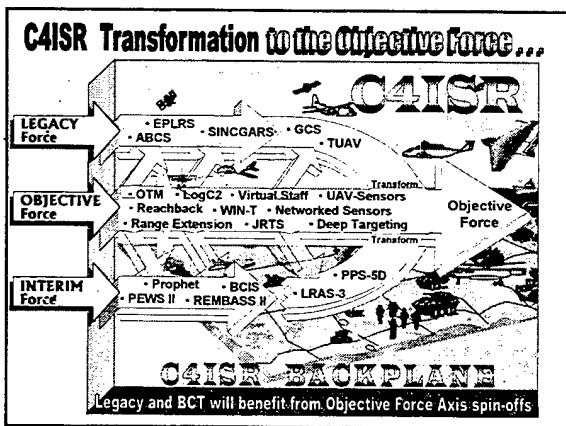
- Networking SENSORS
- Networking C2
- Networking Weapons
- Supported by a
Distributed - Robust
Communications
Network



**Network
Centric
Warfare**







Network-Centric

COMMUNICATIONS → Information Distribution Network

ENGAGEMENT → Engagement Network

INFORMATION → Information Management Network

SENSOR → Information Collection Network

Provides ubiquitous "always on" virtual backplane for transporting information

Provides an integrated system with flexible response to achieve precise overmatched weapons effects

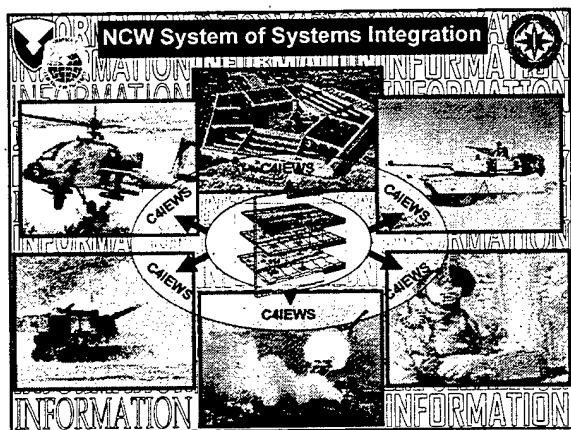
A seamless means to Receive, Process, Store, and Protect Information

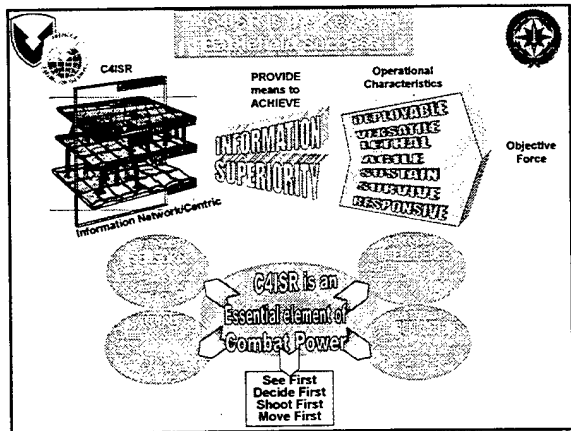
Provides enhanced Situational Awareness across the Battlespace by the linking of all relevant sensors on any platform

CECOM Bottom Line: THE SOLDIER

Network-Centric Warfare C4ISR Implications

- Network-Centric Warfare is about generating an information advantage and translating it to a war fighting advantage.
- Network-Centric Warfare derives its power from robust networking of all warfighting subsystems.
- Network-Centric Warfare is characterized by:
 - Very high levels of shared battlespace awareness, and commanders intent,
 - Self-synchronization and speed of command.
- Everyone can interact at anytime using all the tools necessary to convey orders, plans, or thoughts to any system, mounted or dismounted, in real time.
- Network-Centric Warfare is applicable to all missions and contributes to the coalescence of strategy, operations, and tactics. It is transparent to mission, force size and composition, and geography.





C4ISR Development Philosophy

Adopt Commercial Off-The-Shelf Technology **Adopt**

Adapt Commercial Technology When It Cannot Be Directly Inserted **Adapt**

Develop Technology in Concert With Other Services and Agencies for Unique Areas and Partnerships, Alliances, Teaming **Develop**

CECOM Bottom Line: THE SOLDIER

BUSINESS AREAS

RESEARCH, DEVELOPMENT & ENGINEERING CENTER
Dr. Louis C. Marquet - Director

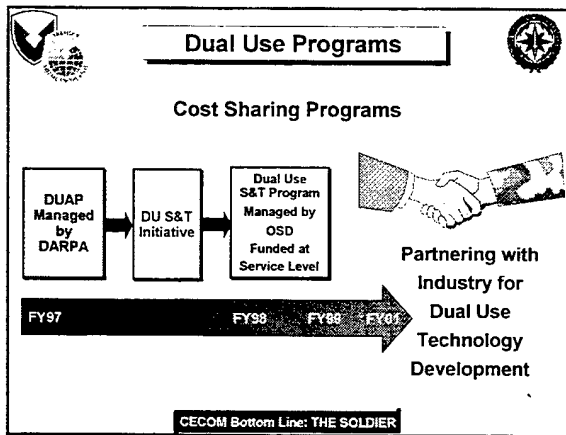
Night Vision Electronic Sensors	Intelligence & Information Warfare	Space & Terrestrial Communications	Command & Control
<ul style="list-style-type: none"> Thermal Imaging Image Intensification/Charge Couple Devices Sensor Fusion Aided Target Recognition Lasers/Laser Radar Mine Detection Advanced Optics 	<ul style="list-style-type: none"> Intelligence, Surveillance, Reconnaissance Multi-Intelligence Electronic Combat Information Operations/Warfare Radar 	<ul style="list-style-type: none"> Secure On The Move Networked Comm Reachback Unattended Sensor Networking Information Assurance Antennas Secure Personal Comms 	<ul style="list-style-type: none"> Advanced C2 Systems Collaborative Decision Making C2 Modeling & Simulation Battlefield Visualization Position Locations & Navigation Power Generation & Management

CECOM Bottom Line: THE SOLDIER

RDEC Top Priority

- Transformation of the Army to the Full Spectrum "Objective Force"
 - Army / DARPA Future Combat Systems (FCS)
 - Sustain, Recapitalize, Modernize, Transform "Legacy Forces" (Heavy and Light)
 - Support and Technology Insertions for Interim Brigade Combat Team (BCT)

CECOM Bottom Line: THE SOLDIER



-
- Dual Use Science & Technology (DU S&T) Overview**
- Leverage Science & Technology funding
 - Provides for cost sharing partnerships with firms and universities
 - Attracts non-traditional potential DoD suppliers and provides greater access to commercial technologies
 - Commercial accounting practices rather than traditional defense practices
 - Competitive awards must have 50% cost share paid by partner
 - Supports FY98 Defense Authorization Act with goals for the Services as percentages of advanced development (6.2) research
 - CECOM is proponent of 1 of 2 Army focus areas (Info & Comm Systems.)
- CECOM Bottom Line: THE SOLDIER

-
- Dual Use Science & Technology (DU S&T) Opportunities**
- **OBJECTIVE:** To partner with industry in dual use technologies to maintain technological superiority and promote commercialization.
 - **CONTRACT TYPE:** Technology Investment Agreements (Other Transactions)
 - **ESTIMATED VALUE:** \$4M per year
 - **KEY MILESTONES:**

BAA	May 01
White Papers	Jun 01
Proposals	Aug 01
Award Announced	Oct 01
 - **TECHNICAL CONTACT:** Randolph Jackson (732) 532-0364
 - **ACQUISITION CONTACT:** Andrew Dellomo (732) 427-1341
- CECOM Bottom Line: THE SOLDIER

RDEC Contract Opportunities

Specific Business Area Opportunities
up to \$77M

- Multi-Mission Radar
- I2WD Broad Agency Announcement
- Multifunctional On-the-move Secure Adaptive Integrated Communications
- C2 Protect for Tactical Army Systems
- Antennas and Accessories
- Agile Commander ATD
- Logistics Command & Control ATD

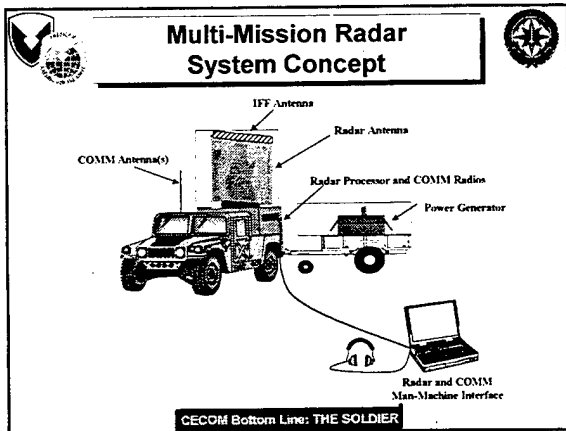
CECOM Bottom Line: THE SOLDIER

RDEC Contract Opportunities

Specific Business Area Opportunities
up to \$77M

- Fuel Cell Hybrid Power for Land Warrior
- Mini-Unmanned Aerial Vehicle
- Head Tracked Viewer/Target Acquisition System
- Distributed Unattended Sensor Technology

CECOM Bottom Line: THE SOLDIER



Multi-Mission Radar Program

- Demonstrate the Capability of Performing Multiple Radar Missions from a Single Host Platform
- Desired Missions:
 - Air Defense Surveillance
 - Counterfire Weapon Location
 - Fire Control
 - Air Traffic Control
- Perform Missions Utilizing Various Software Loads with Minimal or No Hardware Changes
- Goal is to Perform All Radar Functions Simultaneously
- Highly Mobile and Transportable with a Single C-130 Sortie

CECOM Bottom Line: THE SOLDIER

Multi-Mission Radar Program

- OBJECTIVE: Develop a Prototype HMMWV Multi-Mission Radar
 - Support Early Entry Forces in Contingent Theaters
 - Support Maneuvering Forces
- CONTRACT TYPE: Cost Plus Incentive Fee
(alternate contract type possible)
- ESTIMATED VALUE: \$12M - \$16M
- KEY MILESTONES:
 - Release RFP 1st Qtr, FY 02
 - Contract Award 3rd Qtr, FY02
- TECHNICAL CONTACT: Paul Yao (732) 427-6524
- ACQUISITION CONTACT: Andrew Dellomo (732) 532-1131
- RFI: DAAB07-01-R-L528

CECOM Bottom Line: THE SOLDIER

Broad Agency Announcement I2WD 2001

Key Business Areas

Intelligence, Surveillance, Reconnaissance



Information Operations

Multi-Intelligence

Radar

Electronic Combat

CECOM Bottom Line: THE SOLDIER

 **Broad Agency Announcement**
I2WD 2001 



- Open competition
- Covers five key business areas:
 - Electronic Combat
 - Information Operations
 - Radar
 - Intelligence, Surveillance and Reconnaissance
 - Multi-Intelligence
- Open communication with technical points of contact before proposal submission

CECOM Bottom Line: THE SOLDIER

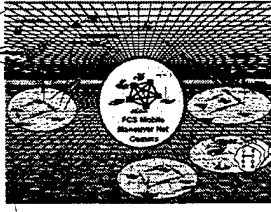
 **Broad Agency Announcement**
I2WD 2001 

- **OBJECTIVE:** Allow industry to propose technical solutions to meet I2WD requirements
- **CONTRACT TYPE:** CPFF (alternate contract type possible)
- **ESTIMATED VALUE:** \$50K - \$2.0M per proposal
- **KEY MILESTONES:**
 - Oct 99 - Oct 04
 - Open proposal submission for life of BAA
- **TECHNICAL CONTACT:** Mary Ellen Elgart (732) 427-3243
- **ACQUISITION CONTACT:** Ron Backes (732) 532-1552
- **SOLICITATION NO.:** BAA DAAB07-00-R-K501

CECOM Bottom Line: THE SOLDIER

 **MOSAIC**
(Multifunctional On-the-Move Secure Adaptive Integrated Communications) 

Adaptive Network Protocols to Support Self-Initializing, Self-Healing, Adaptive, Mobile Networks while addressing security





FCM Mobile Network Node Gateway

Bandwidth Management

Security Framework

Communications Support for Increased Operational Flexibility

CECOM Bottom Line: THE SOLDIER



MOSAIC

(Multifunctional On-the-Move Secure Adaptive Integrated Communications)

- OBJECTIVE: To provide mobile communications and networking technologies to support the Objective Force/Future Combat Systems and Battle Command infrastructure mobility
- CONTRACT TYPE: Combination of Other Transactions, Cost Plus Fixed Fee (Dual Use S&T, BAA)
- ESTIMATED VALUE: \$5M - \$10M over 3 Years
- KEY MILESTONES:

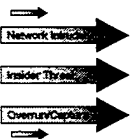



Multiple Awards	1QFY02 – 1QFY04
BAA open	Jun 00 – Jun 03
- TECHNICAL CONTACT: Gary Blohm (732) 427-4277
- ACQUISITION CONTACT: Rick Kolarsick (732) 532-4346
- SOLICITATION NO.: BAA DAAB07-00-R-L575

CECOM Bottom Line: THE SOLDIER



Tactical C2 Protect

C2 Protect Elements

Attack	Protect	Detect/Predict	Respond
			

<ul style="list-style-type: none"> • Viruses • Trojan Horses • Data Corruption • Denial of Service 	<ul style="list-style-type: none"> • User/Message ID & Authentication • Host S/W Protection • Public Key Infrastructure 	<ul style="list-style-type: none"> • Host/Net Intrusion Detection • Malicious Code Det. • Attack Forecasting 	<ul style="list-style-type: none"> • Damage Assessment/ Recovery • Malicious Code Eradication
----------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

Protect, Detect, and Respond components will be integrated and managed by a Security Management architecture

Tactical C2 Protect

- OBJECTIVE: Adapt, integrate and validate network access control, intrusion detection/response, malicious code detection, and security management that will protect the systems and networks of the First Digitized Division (FDD) and Objective Force/Future Combat Systems (FCS) from modern network attacks.
- CONTRACT TYPE: Combination of Other Transactions, Cost Plus Fixed Fee (Dual Use S&T, BAA)
- ESTIMATED VALUE: \$2.0M - \$4.0M
- KEY MILESTONES:

Multiple Awards	1Q - 2QFY02
BAA Open	Jun 00 – Jun 03
- TECHNICAL CONTACT: Pete Van Syckle (732) 427-4647
- ACQUISITION CONTACT: Rick Kolarsick (732) 532-4346
- SOLICITATION NO.: BAA DAAB07-00-R-L575

CECOM Bottom Line: THE SOLDIER

Advanced Antennas

The diagram illustrates several advanced antenna technologies and their benefits:

- WIDEBAND GAP-FILLER:** OTM MULTIMISSION, HIGH DATA RATE
- MILSTAR GLOBAL BROADCAST SATELLITE:** OTM MULTIBEAM PHASED ARRAY, LOW COST ATTITUDE HEADING REFERENCE SYSTEM, RECEIVE AND TRANSMIT ARRAYS
- NEAR FIELD ANTENNA / PLATFORM MODELING:** REDUCED ANTENNA PATTERN DISTORTION
- BODY BORNE / LOW PROFILE ANTENNAS:** REDUCED VISUAL SIGNATURE, ENHANCED SURVIVABILITY, HORIZONTAL TECH INTEGRATION
- RECONFIGURABLE VHF & MULTIBAND BAND SWITCHED:** RADIO RF, RADIO CONTROL, REDUCED COSITE, GREATER GAIN
- JOINT TACTICAL RADIO SYSTEM (JTRS) INTEGRATION:** JTRS, Widesband Phased Array, Multibeam, REDUCED LOGISTICS
- OTM MULTIBAND ANTENNA:** REDUCED LOGISTICS

CECOM Bottom Line: THE SOLDIER

Advanced Antennas

- OBJECTIVE:** To develop a family of OTM, high gain, low profile antennas and subordinate products covering the 30 MHz to 44 GHz frequency range.
- CONTRACT TYPE:** Combination of Other Transactions, Firm Fixed Price (BAA), Cost plus Fixed Fee (BAA)
- ESTIMATED VALUE:** \$8M - \$13M, 5 year effort
- KEY MILESTONES:**
 - Multiple Awards 2QFY02, 2QFY03, 1QFY04
 - BAA Open Jun 00 - Jun 03
- TECHNICAL CONTACT:** Steve Goodall (732) 532-0445
- ACQUISITION CONTACT:** Virginia Knight (732) 532-4348
- SOLICITATION NO.:** BAA DAAB07-00-R-L575

CECOM Bottom Line: THE SOLDIER

Agile Commander Advanced Technology Demonstration (ATD)

Execution-Centric Decision Support

The image shows a soldier in a field of view, with smaller images of a vehicle and a person. The text "Agile Disrupted Collaborative" is visible below the images.

CECOM Bottom Line: THE SOLDIER

**Agile Commander
Advanced Technology Demonstration (ATD)**

PROGRAM CHARACTERISTICS

- Split-based, distributed battle command that sustains mobile, synchronized and coordinated operations from dispersed locations
- Collaboration, visualization, and semi-automated Course of Action (COA) tools
- Knowledge management and data warehousing
- Software intelligent agents for execution monitoring
- Integration of maneuver and logistics planning

CECOM Bottom Line: THE SOLDIER


**Agile Commander
Advanced Technology Demonstration (ATD)**

- **OBJECTIVE:** Research & Development for the Agile Commander ATD in the areas of Course of Action (COA) / Continuous Planning; Intelligent Agents; Interactive Information Visualization; Knowledge Management and Warehousing; Modeling & Simulation; Adaptive Applications
- **CONTRACT TYPE:** CPFF (alternate contract type possible)
- **ESTIMATED VALUE:** \$25K-\$3M per proposal
- **KEY MILESTONES:**
 - Aug 00 – Sep 03
 - Open proposal submission for life of BAA
- **TECHNICAL CONTACT:** Thomas Schnurr (732) 427-4321
- **ACQUISITION CONTACT:** Andrew Dellomo (732) 532-3569
- **SOLICITATION NO.:** BAA DAAB07-00-R-L613


CECOM Bottom Line: THE SOLDIER

**Logistics Command and Control (Log C2)
Advanced Technology Demonstration (ATD)**

CECOM Bottom Line: THE SOLDIER




**Logistics Command and Control (Log C2)
Advanced Technology Demonstration (ATD)**




PROGRAM CHARACTERISTICS

- Collaboration, visualization, and logistics course of action software
- Knowledgebase software development
- Data access, interoperability and mediation
- Software intelligent agents for execution monitoring and logistics modeling
- Integration of maneuver and logistics planning

CECOM Bottom Line: THE SOLDIER




**Logistics Command and Control (Log C2)
Advanced Technology Demonstration (ATD)**




- **OBJECTIVE:** Research & Development for the Log C2 ATD in the areas of Course of Action (COA) / Continuous Planning; Intelligent Agents; Interactive Information Visualization; Knowledge Management and Warehousing; Telemaintenance / Telediagnosics / Telemedicine
- **CONTRACT TYPE:** CPFF (alternate contract type possible)
- **ESTIMATED VALUE:** \$25K-\$3M per proposal
- **KEY MILESTONES:**
 - Aug 00 – Sep 03
 - Open proposal submission for life of BAA
- **TECHNICAL CONTACT:** Charles Miller (732) 427-2749
- **ACQUISITION CONTACT:** Mr. Andrew Dellomo (732) 532-3569
- **SOLICITATION NO:** BAA DAAB07-00-R-L613


CECOM Bottom Line: THE SOLDIER




**Fuel Cell Hybrid Power
for Land Warrior**



Program Goal: Power source to extend mission times and capabilities of the dismounted soldier.



Land Warrior



20 to 50 Watt Fuel Cells

Critical Technologies:
Fuel Cell
Hydrogen Source
Rechargeable Battery

24 Mission Hours
2 lb System Weight

CECOM Bottom Line: THE SOLDIER

Fuel Cell Hybrid Power for Land Warrior

- Develop and demonstrate lightweight fuel cell / rechargeable battery hybrid power source.
- Technology areas include fuel cell stack, hydrogen source, and system integration with rechargeable batteries.
- To be carried by individual soldiers as part of the Land Warrior system.

CECOM Bottom Line: THE SOLDIER

Fuel Cell Hybrid Power for Land Warrior

- OBJECTIVE: Develop and demonstrate a fuel cell / battery hybrid power source.
- CONTRACT TYPE: CPFF
- ESTIMATED VALUE: \$250K - \$500K
- KEY MILESTONES:
 - RFP 1QFY02
 - Award 2QFY02
- TECHNICAL CONTACT: Jim Stephens (703) 704-2006
- ACQUISITION CONTACT: Rick Kolarsick (732) 532-4346

CECOM Bottom Line: THE SOLDIER

SUAV Payloads Addressing Requirements

UAV Requirements Proposed

- 9'-36" Wingspan
- Operational Range up to 10 Km
- Day & Night sensors
- Quiet Operation
- Active Controls for Stable Image
- 1000 FT AGL
- Low Power - Line of Sight Communications
- Single Man Portable, Deploy, Auto Launch and Recover
- GPS Flight Route Control
- Automatic and Manual Search Patterns
- 600ft Recognition Range
- Standard RS170 Video display

Sensor Technology Options

- Uncooled IR ⇒ 8-12 μm Bolometer
- SWIR ⇒ 1.5-2.5 μm TE Cooled
- E-O ⇒ Visible CCD
- Acoustic
- Chemical


Provides over-the-hill view of the Battlefield


Low Cost Organic Systems for High Quality BLOS Situational Awareness and Targeting


Sensors for Small Unmanned Aerial Vehicle (SUAV)


- Evaluate sensor payloads for SUAVs (air vehicle size and type is application dependant)
- Day-night, chemical, and acoustic sensor payloads required with autonomous flight operation
- System weight with airframe require less than 20 pounds for soldier backpack automatic launch & recovery capability


Testbed SUAVs for Current and Future Demonstrations



Pointer


Cypher II


Backpack


Dragon Eyes


Lift Augmented Ducted Fan (LADF)


LADF

CECOM Bottom Line: THE SOLDIER

Sensors for Small Unmanned Aerial Vehicle (SUAV)

- **OBJECTIVE:** Test and demonstrate multiple sensor payloads on SUAVs addressing infrared, short-wave infrared, acoustic, chemical sensor payloads, and pan & tilt unit
- **CONTRACT TYPE:** CPFF **ESTIMATED VALUE:** \$2M-\$3M Total
- **KEY MILESTONES:**

Infrared camera	RFP 1QFY03	Award 2QFY03
Airframe specific acoustic	RFP 4QFY03	Award 1QFY04
Chemical sensor development	RFP 3QFY03	Award 4QFY03
Short-wave infrared	RFP 2QFY04	Award 3QFY04
Pan & tilt unit	RFP 2QFY04	Award 3QFY04
- **TECHNICAL CONTACT:** Richard Wright (703)704-1329
- **ACQUISITION CONTACT:** Rick Kolarsick (732) 532-4346

CECOM Bottom Line: THE SOLDIER

Head Tracked Viewer/Target Acquisition System

Providing Closed Hatch, All Around, Near Vehicle Situational Awareness



Head Tracked Viewer

Provides 360° X 90° Situational Awareness & Acquisition
Passes Targets off to Cost Effective Targeting System or other assets for Engagement

Low Cost Solution for Situational Awareness & Connectivity with the Dismounted Infantry - Closed Hatch Protection from Dismounted Attack




Existing Pointer Spot from Dismounted Infantry

Fixed Pointer Spot from Head Tracked System


Pointer

Connectivity with Dismounted Infantry through Fusion of FLIR and IR CCD camera

CECOM Bottom Line: THE SOLDIER




Head Tracked Viewer/ Target Acquisition System




- Develop and demonstrate head tracked vision/target acquisition system
- To incorporate 480x640 uncooled thermal imager with intensified CCD fused for optimum scene dynamics and to allow imaging of pointers for dismount connectivity
- 360 x 90 degree field of regard for near vehicle situational awareness

CECOM Bottom Line: THE SOLDIER




Head Tracked Viewer/ Target Acquisition System




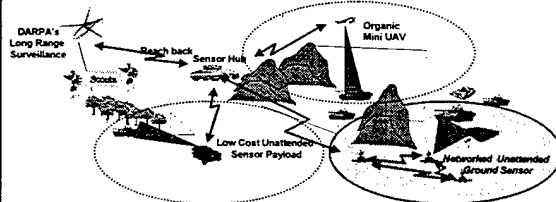
- **OBJECTIVE:** Develop and demonstrate head tracked vision system
- **CONTRACT TYPE:** Cost Plus Fixed Fee
- **ESTIMATED VALUE:** \$5M - \$7M
- **KEY MILESTONES:**

RFP	2QFY02
Award	3QFY02
- **TECHNICAL CONTACT:** Tom Bowman (703) 704-1243
- **ACQUISITION CONTACT:** Rick Kolarsick (732) 532-4346

CECOM Bottom Line: THE SOLDIER




Distributed Unattended Sensor Technology





Purpose and Goal: By 2005, demonstrate an organic, integrated, multi-spectral suite of networked imaging and non-imaging ground sensors that will expand the coverage of the RECCE Platoon. The UGS system will be integrated with other platform-organic systems (UGVs and mini-UAVs) to demonstrate enhanced situational awareness capabilities for the RSTA squadron under the Networked Sensors for the Objective Force (NSIOF) Advanced Technology Demonstration (ATD)

CECOM Bottom Line: THE SOLDIER




Distributed Unattended Sensor Technology




- Develop and demonstrate networked miniature unattended sensor technology
- Detect and identify enemy and friendly forces with remote imaging and non-imaging unattended ground sensors
- Infrared, acoustic, and seismic technologies anticipated
- Capable of deployment by soldiers and from air platforms
- Uses networking and communications from Smart Sensor Communications Networking STO

CECOM Bottom Line: THE SOLDIER




Distributed Unattended Sensor Technology




- **OBJECTIVE:** Develop networked unattended sensor technology
- **CONTRACT TYPE:** Cost Plus Fixed Fee
- **ESTIMATED VALUE:** \$4M - 7M
- **KEY MILESTONES:**
 - RFP 4QFY01
 - AWARD 1QFY02
- **TECHNICAL CONTACT:** Daniel Bryski (703) 704-3285
- **ACQUISITION CONTACT:** Rick Kolarsick (732) 532-4346

CECOM Bottom Line: THE SOLDIER



WEBSITES



- **Broad Area Announcement (BAA):**
<http://abop.monmouth.army.mil/>
 Once on the page get to "Requiring Activity", "RDEC" and find the solicitation for
 Space & Terrestrial Communications Dir. "DAAB07-98-R-D003"
 Intelligence & Information Warfare Dir. "DAAB07-00-R-K501"
 Command & Control Dir. "DAAB07-00-R-L613"
- **Dual Use Science & Technology (DUST) Program:**
<http://www.dtic.mil/dust/>
- **Small Business Innovation Research (SBIR) Program:**
<http://www.acq.osd.mil/sadbu/sbir/> (Phase I Solicitation)
<http://www.aro.army.mil/arowash/rtr/> (Phase II Plus)
- **Independent Research and Development (IR&D) Program:**
<http://www.dtic.mil/fird/>

CECOM Bottom Line: THE SOLDIER



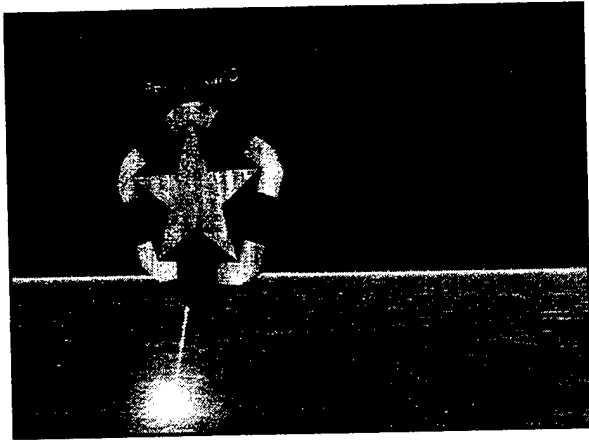
SUBJECT MATTER EXPERTS



MANAGERS AVAILABLE AT CECOM EXHIBIT

- DUAL USE SCIENCE AND TECHNOLOGY
- SMALL BUSINESS INNOVATION RESEARCH
- INDEPENDENT RESEARCH AND DEVELOPMENT
- COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENTS
- PATENTS AND PATENT LICENSING AGREEMENTS

CECOM Bottom Line: THE SOLDIER



STAMIS Tactical Computers Contract (SCC-III)

PEO STAMIS PROGRAMS CURRENTLY SUPPORTED BY THE STACOMP CONTRACT

Benefits

- o Integrated and tested components/configurations
- o Synchronized, on-site fieldings
- o Life cycle maintenance

FULLY SUPPORTED AND PROVISIONED. HARDWARE SYSTEMS USING INDUSTRY STANDARD COTS PRODUCTS

STAMIS Tactical Computers Contract (SCC-III)

• Information Systems Acquisition, Integration and Support Services

- Hardware: Desktops, Laptops, Servers, Peripherals
- Software: Operating Systems, Communications
- System Support: Maintenance, Site Surveys, Deployment, Training and Studies

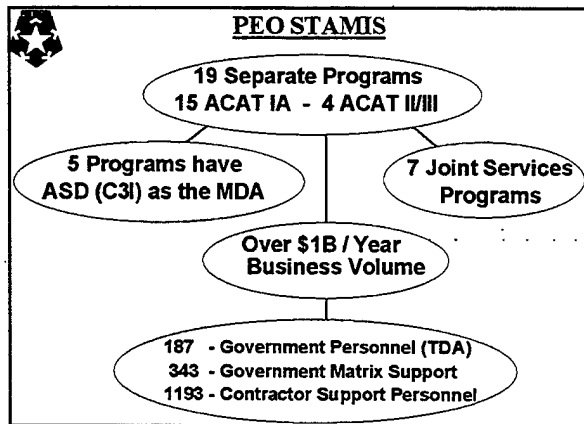
• Operational Environments

- Tactical and Sustaining Base
- Worldwide support to PEO STAMIS programs

STAMIS Tactical Computers Contract (SCC-III)

- **OBJECTIVE:** Acquire Commercially Available Hardware, Software, and Integration, Deployment, Training and Support Services for PEO STAMIS programs
- **PROPOSED CONTRACT TYPE:**
 - Multiple Type:
 - Federal Supply Schedule, Blanket Purchase Agreements (BPAs)
 - IDIQ
- **KEY MILESTONES:**
 - RFQ Release: 2Q FY 2002
 - Contract Award: 3Q FY 2002
- **ESTIMATED VALUE:** \$300-400 Million, over five years
- **POC NAMES/TELEPHONE NUMBERS:**
 - PEO STAMIS POC: Mr. Steve Smith, (703) 806-3887
 - Acquisition POC: Ms. Mary O'Hara, CAC-W, (703) 325-3343







Program Management Support Services (PMSS)

- Long Term Corporate Partnership, in a competitive environment with PM selection flexibility
- Provides proven Systems Development and Acquisition Management Support across all PEO STAMIS programs
- Results-Oriented towards success for the PM and PEO STAMIS. Positive results will be achieved in PEO STAMIS-wide process improvements as well as quantifiable successes in individual program areas.



PMSS

- **OBJECTIVE:** Improve PEO STAMIS Products, Deliveries and reduce costs, while promoting standard processes. Consolidate multiple existing support contracts into two BPAs.
- **PROPOSED CONTRACT TYPE:**
 - Multiple, Federal Supply Schedule, BPAs
 - Hybrid Type, evolving to Performance Based Services
 - Incentives to promote process improvement
- **KEY MILESTONES:** -RFQ Release: 3Q FY 2001
-Contract Award: 4Q FY 2001
-First Task Order Issued: 1Q FY2002
- **ESTIMATED VALUE:** \$150-250M, seven year term
- **POC NAMES/TELEPHONE NUMBERS:**
 - PEO STAMIS POC: Mr. Steve Smith, (703) 806-3887
 - Acquisition POC: Ms. Mary O'Hara, CAC-W, (703) 325-3343
- **RFQ #:** DAAB15-01-T-1003



Automatic Identification Technology

Radio Frequency Identification (RFID)

RFID Acquisition Support

TRAINING SOFTWARE MAINTENANCE TECHNICAL SERVICES



Automatic Identification Technology

RFID Acquisition

- RFID Systems Acquisition, Integration & Support Services
 - Hardware: Interrogators, Transponders, Paper Tags, FlyAway Kits
 - Software: Operating Systems, Wireless Comm's, Commercial Applications
 - Systems Support: Warranty, Maintenance, Integration, Training
- Tactical & Non-Tactical Operational Environments
- Supports Assets Management
- Provides Wireless Data collection
- Worldwide RFID systems support



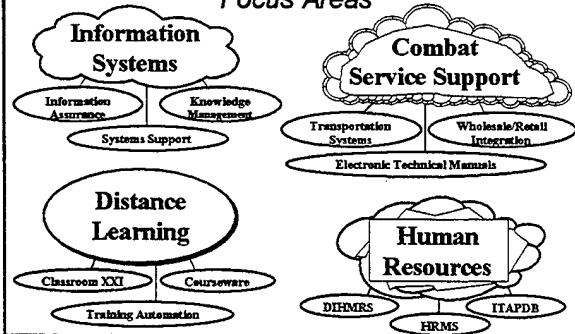
RFID II Contract

- OBJECTIVE:** Acquire Commercially Available RFID Hardware, Software, and Support Services for PEO STAMIS Army, Air Force, DOD, Marine Corps, Coast Guard, Navy, and other Government-wide programs
- PROPOSED CONTRACT TYPE:**
 - Indefinite Delivery/Indefinite Quantity (IDIQ)
 - Firm Fixed Price
- KEY MILESTONES:**
 - RFP Release: 1Q FY 2002
 - Contract Award: 3Q FY 2002
- ESTIMATED VALUE:** \$100-200 Million, over five years
- POC NAMES/TELEPHONE NUMBERS:**
 - PEO STAMIS POC: Mr. Jay Gulati, (703) 806-4126
 - Acquisition POC: Ms. Mary O'Hara, CAC-W, (703) 325-3343

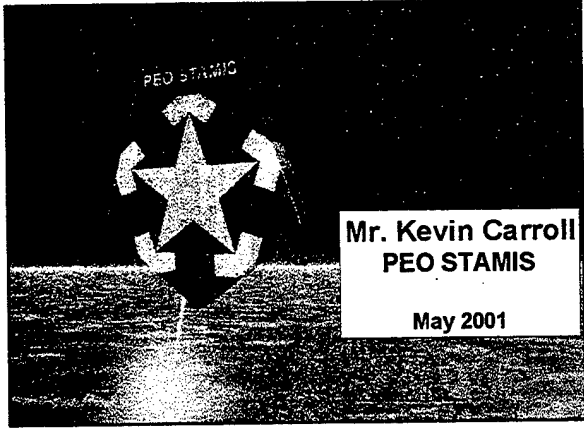


PEO STAMIS Possible Business Opportunity

Focus Areas



Program Executive Officer Standard Army Management Information Systems May 2001	
PEO Mr. Kevin Carroll DYN 646-6255, COMSA; (703) 804-4253 CARROLLK@PEOSTAMIS.REL.VA.ARMY.MIL	
<input type="checkbox"/> - ACATIA Systems <input checked="" type="checkbox"/> - OSD Lead for Joint Program <input type="checkbox"/> - Army Implementation of Joint Program	
Deputy PEO COL Leslie J. K. King DYN 646-6266, COMSA; (703) 804-4268 Chief of Staff/Reserve Component Liaison	
Paratrooper Liaison MAJ Elizabeth Thomas DYN 725-8648, COMSA; (703) 804-4266	Fort Belvoir Eng Liaison Office Mr. Robert Williams (703) 804-4262
Operations & Mission Support Director Mr. Guy Stoenhals (703) 804-3882	Acquisition & Management Director Mr. Carolyn Sprague (703) 804-4267
Chief Information Officer Mr. F. Johnson (703) 804-4393	Business & Human Resources Management Director Mr. Harold Jordan (703) 804-4261
PO CTACSB (CAIS) MAJ Keith Penner Ft. Belvoir, VA 4128	PM GC31 A COL Steve Stuehling Ft. Lee, VA DYN 897-2646
Production Office ALIS LTC Jeffrey O'Brien, 9813 3A027 3A027 3A027 3A027 3A027 3A027 3A027 3A027 3A027	PM TC-ADMS II COL John Douglas (Asstg) Ft. Belvoir, VA (703) 804-4053
PM ALT Mr. Ann Leutz Ft. Belvoir, VA (703) 804-4180	PM XCAL5 LTC John Marshall (Asstg) Ft. Belvoir, VA (202) 377-9800
PM AZ11 LTC H. Tammela Ft. Belvoir, VA (903) 423-1100	PM YADLP Mr. Mark Finkles (Asstg) Ft. Belvoir, VA (703) 786-5553
PM DET-D LTC Gene Lehman Ashburn, VA (703) 786-6500	PM DMS-Army Mr. Cathy Doolin Ft. Belvoir, VA (703) 804-3763
PO CFR Mr. Mary K. Woodside Ft. Belvoir, VA (703) 432-6668	PM MCA LTC J. R. Corbett Ft. Detrick, MD (204) 415-7000
	PM SDPERS-3 LTC C. McHenry Ft. Belvoir, VA (703) 804-4253
	PO HSM/215M Mr. Carl Olson Ft. Belvoir, VA (703) 804-6200



GUEST SPEAKER

LIEUTENANT GENERAL LESLIE F. KENNE

**COMMANDER, ELECTRONIC SYSTEMS
CENTER, AIR FORCE MATERIAL COMMAND
HANSCOM AIR FORCE BASE,
MASSACHUSETTS**

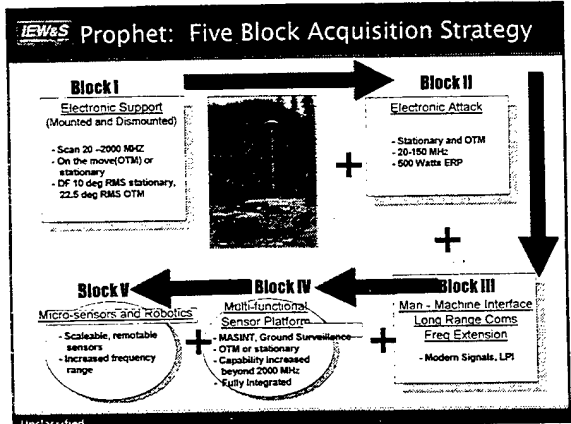


Product Manager Prophet

Prophet (Mounted)

Prophet (Dismounted)

Unclassified



IEW&S Prophet

Prophet

- Signal Access
- Multi-Sensor
- High Mobility
- All Weather
- Remountable

Brigade Commander's Multi-Functional System

- Force Protection
- Mounted and Dismounted
- Assured Support
- On-The-Move (OTM)

INTERSUBJECTIVE FORCE CHARACTERISTICS

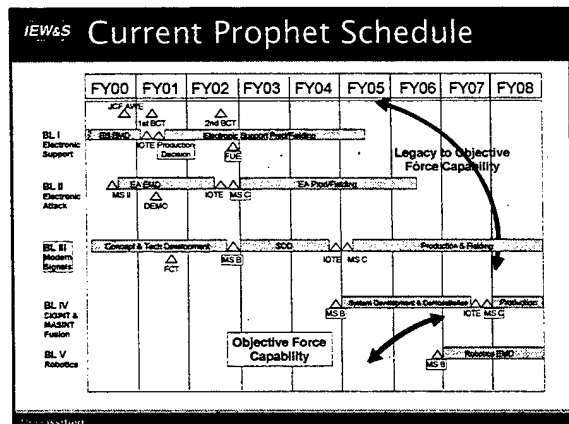
- Responsive
- Deployable
- Agile
- Variable
- Lethal
- Survivable
- Automatable

- C130 DOWD Deployable
- High Mobility
- Reduced Logistics
- Common Block Platform
- No Unique Signature
- 30% Line Personnel
- 20% Line Vehicle/Equipment

IBCT Lessons Learned

Block I Block II Block III Block IV Block V

Build on Success **IBCT** Build Success Robotics Force Branch



IEW&S Prophet Block II

KPP: Tactical Mobility/Electronic Attack (from Prophet System ORD)
 ...EA Capability While Supporting Doctrinal Movement Rates or Operating at the Short Halt. The EA Shall be at Least 500W Mean ERP Between 20 and 150 MHz in this OTM Configuration.

Threshold Capabilities:

- Electronic Attack - Signal Initiated Jamming (Reactive Jamming).
- Manual Jamming, Frequency Lockouts and Multiple EA Waveforms.

ALTERNATIVES UNDER CONSIDERATION

- Separate, stand alone procurement
- Merged with another Block effort
- Final Decision estimated May 01

IEW&S

Prophet Block II EA

- . **Objective:** To Obtain Development & Production Option Contract for Block II Requirements
- . **Contract Type:** Dev-CPFF/Prod-FFP Option
- . **Estimated Value:** \$1.9M/\$20M
- . **Key Milestones:** RFP Release - 3Q FY01
Award - 4QFY01
- . **Technical Contact:** Mark Conrad 732-427-1967
- . **Acquisition Contact:** Jim Bannister 732-427-1340
Andy Dellomo 732-532-3569
- . **Solicitation # or RFQ #:** N/A

IEW&S

Prophet Block III

KPP: Man-Machine Interface (MMI)
 • Prophet Shall have an Integrated MMI that Allows for Intelligence Digital Reporting and Databasing Computer and Network - transmit LOBs to other Bde Prophet and Automatically Report (operator directed) back to Prophet Control at Brigade ACT

- Threshold Capabilities:**
- Signal Identification - Automatically Identify AM, FM, SSB, CW, LPI, and Modern Signals
 - Direction Finding Accuracy - Acquire a LOB for LPI
 - MMI - ES and EA Transmitter and Receiver Control
 - Communications - Beyond Radio LOS (10-50 km)

ORD REVISIONS UNDER CONSIDERATION

- Signals - remote, record, store
- Special Purpose Built Systems (SPBS) and Quick Reaction Capabilities (QRC) ports or mounting (internal or external system access)
- NAWWAR
- On-board, resident, interactive motor pool training capability

IEW&S

Prophet Block III LPI/MMI

- . **Objective:** To Obtain Development and Production Option Contract for Block III Requirements
- . **Contract Type:** Dev-CPXX/Prod-FFP Option
- . **Estimated Value:** \$16M/\$35M
- . **Key Milestones:** RFP Release 3QFY02
Award - 1QFY03
- . **Technical Contact:** Dan Tartaglia 732-427-1959
- . **Acquisition Contact:** Jim Bannister 732-427-1340
Andy Dellomo 732-532-3569
- . **Solicitation # or RFQ #:** N/A



Prophet Block IV & Block V

THRESHOLDS: BLOCK IV

- MMIO Networking
 - Integrated MMI for Prophet-to-Prophet System (mutual operator displays / system to system screen visualization)
 - Netted for DF OPS and Operator-to-Operator Interface (image resolution)
- Multi-Sensor Integration / Unattended Ground Sensors
 - Multi-Capable Sensor System Integrating MASINT and Ground Surveillance Sensors (GSS)

OBJECTIVES: BLOCK V

- Micro and Robotic Receivers
 - Transport, Employ, Control and Relay Collected Information From Remote Receivers.
 - Micro and Robotic Remote Capabilities Including SIGINT and EW ES (To Include Locating), EA, MASINT and NAVWAR.

BL IV ORD REVISIONS UNDER CONSIDERATION

- Multi-spectrum, Pre-processing, Multi-mode delivery (air, land, vehicle), SWAP considerations
- All weather, water proof, remote displacement from vehicle, GSS monitoring
- Solutions outside of Radio Frequency (RF) spectrum
- Image Resolution



Prophet Block IV SIGINT/MASINT Fusion

- Objective: To Obtain Development and Production Option Contract for Block IV Requirements
- Contract Type: Dev-CPXX/Prod-FFP Option
- Estimated Value: \$24M/\$41M
- Key Milestones: RFP Release 3QFY04
Award - 1QFY05
- Technical Contact: Jim Maziarz 732-427-1981
- Acquisition Contact: Jim Bannister 732-427-1340
Andy Dellomo 732-532-3569
- Solicitation # or RFQ #: N/A



Enhance Night Vision Devices



IEW&S Enhanced Night Vision Goggle (ENVG) Performance

- Lightweight Image Intensifier and Thermal Sensor Fused Night Vision Imaging Device
- Compatible with Land Warrior and Rifle Mounted Aiming Lights
- Weight: <1.0lbs Objective; <1.5 lbs (Threshold)
- Power: Operate in Combat Full-on at Least 15 Hours out of Each 24 Hour Period Using Non-Rechargeable Batteries
- FOV:
 - 40° Image Intensifier
 - ≥ 30° Thermal Channel
- Detection Range:
 - ≥ 160m @ Starlight
 - ≥ 100m Through Battlefield Obscurants & No Light Conditions
- Resolution:
 - ≥ 1.3 cyc/mr for Image Intensifier Channel
 - ≥ 0.1 cyc/mr for Thermal Channel

IEW&S Enhanced Night Vision Goggle (ENVG) Contract Opportunity

- **Objective:** Best Value System Development & Demonstration and Initial Production of Enhanced Night Vision Goggles
- **Contract Type:** Cost Plus Award Fee, Period of Performance: 32 Months
Fixed Price Production Options
- **Estimated Value:** System Development & Demonstration: \$10-12M
Production Option up to \$20M (Quantities up to 3000)
- **Key Milestones:** RFP Release - 1QFY03
Contract Award - 2QFY03
- **Technical Contact:** Mr. Gregory Patrick 703-704-1687
- **Acquisition Contact:** Mr. Jack Kulaga 732-427-1356
- **Solicitation # or RFQ #:** N/A

IEW&S

**Integrated Laser
White-Light Pointer (ILWP)**

IEW&S Integrated Laser White-Light Pointer (ILWP)

- Small Lightweight Integrated IR and Visible Aiming Laser, IR Illuminator, Focusable White Light Flashlight
- Mount on M16A2, M4 Carbine, M16/M4 Modular Weapon System and M9 Semi-Automatic Pistol
- Provide Capability to Acquire and Engage Targets with Small Arms Weapons On the Battlefield and in Close Quarters Combat Engagements During Limited Visibility Conditions or in Total Darkness
- Weight \leq 6oz
- IR Aiming Laser / IR Illuminator \geq 600M
- Visible Aiming Laser \geq 10M
- Focusable White Light \geq 25M (Facial Recognition)

Unclassified

IEW&S Integrated Laser White-Light Pointer (ILWP)

- **Objective:** System Development and Demonstration (SDD)
- **Contract Type:** CPFF with Firm-Fixed Price Production Options; CPFF Period of Perf = 20 mos.
- **Estimated Value:** SDD \$.7M – 1.5M
Production Option - \$10M – 20M
- **Key Milestones:** RFP Release - 4QFY01
Award - 1QFY02
- **Technical Contact:** John Spadafore 703-704-3456
- **Acquisition Contact:** Judy Anderson 732-427-1408
- **Solicitation # or RFQ #:** N/A

Unclassified

IEW&S LVRS

Unclassified



Lightweight Video Reconnaissance System (LVRS)

- System Description: AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS) is a system that captures and transmits still frame video images and intelligence data through military radios. The images/data is captured with a portable AN/PVH-1 LVRS Out Station then transmitted to the AN/PVH-2 LVRS Base Station for intelligence analysis and further dissemination.
- Target Acquisition: Day: \geq 1500 Meters
Night (starlight): \geq 400 Meters
- Out Station Weight: \leq 5 lbs (objective); \leq 16 lbs (threshold) w/o Batteries
- Single Time Frame Transmission: $<$ 40 Seconds

Unclassified



Lightweight Video Reconnaissance System (LVRS)

- Objective: Full Rate Production
Logistics Support
- Contract Type: Firm-Fixed Price; 3-Year Multi-year
- Estimated Value: Basic \$5-6M
Options \$10-12M
- Key Milestones: RFP Release - 1QFY04
Contract Award - 2QFY04
- Technical Contact: Jaime Gonzalez (703) 704-3212
- Acquisition Contact: Jack Kulaga (732) 427-1356
- Solicitation # or RFQ #: N/A

Unclassified



Thermal Omnibus II

TWS



DVE



Unclassified

IEW&S Thermal Omnibus II TWS Characteristics

- Lightweight Day/Night Thermal Imaging Device
- Operates in Adverse Weather and Dirty Battlefield Conditions
- Provides Surveillance and Target Acquisition Capability for Individual and Crew Served Weapons
- Light and Medium Versions:

	<u>Light TWS</u>	<u>Medium TWS</u>
- Weight (lbs.)	2 (obj.) - 3 (threshold)	3.5 - 5
- Field of View (° min)	14	6/18 switchable
- Range (M, clear air, man tgt)	550	1100
- Desired Enhancements
 - Lower Weight, Power, Operations & Support Costs
 - Increased Reliability, Range, Field of View
 - Path for Technology Improvement Insertion

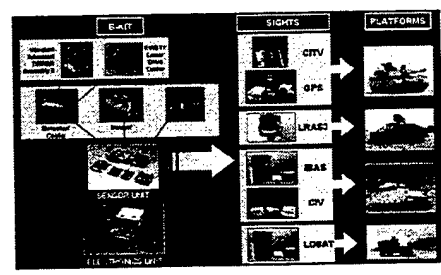
IEW&S Thermal Omnibus II DVE Characteristics

- Thermal Imaging Device to Aid Driving of Tactical Wheeled Vehicles and Combat Vehicles
- Enhances Vehicle Movement During Daylight, Darkness, Adverse Weather, and Dirty Battlefield Conditions
- System Consists of "A" and "B" Kits Comprised of Vehicle Installation/Mounting Hardware, Sensor, and Display/Control
- Supports Detection of 22 Inch Object at 110 Meters
- Required Minimum Field of View: 20° Vertical, 40° Horizontal
- Desired Enhancements
 - Increased Field of View, Better Depth Perception
 - Improved Limited Visibility Operations, Higher Resolution Display
 - Increased Reliability, Reduced Operation & Support Cost
 - Ability to Incorporate Technology Improvements Such As Multi-Spectral Image

IEW&S Thermal Omnibus II Contract Opportunity

- **Objective:** Procurement of Light and Medium Thermal Weapon Sights (TWS) and Driver's Vision Enhancers (DVE)
- **Contract Type:** Firm Fixed Price, 3-Year Multi-Year w/ Basic Quantity and Options in Each Year, 2 Year Option (Total 5 Years), One or More Awards
- **Estimated Value:** Basic = \$82-92M, Total Options \$190-210M
- **Key Milestones:** RFP Release - 1QFY03
Award 2QFY03
- **Technical Contact:** Mr. Daniel Kitts (TWS) 703-704-1292
Mr. Joseph Brooks (DVE) 703-704-1251
- **Acquisition Contact:** Ms. Deborah Gilligan 732-532-5454
- **Solicitation # or RFQ #:** N/A

IEW&S HTI 2nd Gen FLIR



IEW&S HTI 2nd Generation FLIR - "B-Kit"

- Long Wave, Infrared Scanning System - Utilizes SADA II FPA (480x4)
- Fields of View: 7.5° x 13.3° (wide); 2.0° x 3.6° (Narrow)
- Range Performance: Classified
- The HTI B-Kit is the Common 2nd Generation FLIR Sensor for Several Sensor Systems
 - M1A2SEP Gunners Primary Sight (GPS)
 - M2A3 Bradley Improved Bradley Acquisition System (IBAS)
 - M2A3 Bradley Commanders Independent Viewer
 - Long Range Advanced Scout Surveillance System (LRAS3)
- Currently in Full-Rate Production, Additional Follow-on Production Contracts Required

IEW&S HTI 2nd Generation FLIR

- **Objective:** Follow on Production - Qty of Approximately 1200 B-Kits in Support of the Abrams M1A2SEP and Bradley A3 Production and 295 B-Kits in Support of LRAS3 Production
- **Contract Type:** Firm Fixed Price; Up to Two Awards, 2 Year Multi Year - Plus 1 Option Year
- **Estimated Value:** \$185-240M (Including Options)
- **Key Milestones:** RFP Release - Aug 01
Contract Award - Jan 02
- **Technical Contact:** Wayde Thomka 703 704-3441
- **Acquisition Contact:** Debbie Gilligan 732 532-5454
Joe Manganaro 732-427-1389
- **Solicitation # or RFQ #:** N/A

IEW&S

M1A2 SEP Biocular Image Control Unit (BICU)



Classified

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M1A2 SEP Biocular Image Control Unit (BICU)

- Line Replaceable Component of the M1A2 SEP Gunner's Primary Sight (GPS) Thermal Imaging System (TIS)
- Controls the HTI 2nd Gen FLIR B-kit Display Through an RS-232 Interface
- Displays the Analog RS-170 Output, Including Imagery and Symbology, Through the GPS Monocular and a Separate Binocular Display

Classified

IEW&S

M1A2 SEP Biocular Image Control Unit (BICU)

- **Objective:** Full Rate Production - Qty of Approximately 190 BICUs (plus Additional Spares Options) in Support of the Abrams M1A2SEP
- **Contract Type:** Firm Fixed Price; 2 Year Multi Year - Plus 1 Option Year
- **Estimated Value:** \$3.8-5.5M (Not including Options)
- **Key Milestones:** RFP Release: Aug 01
Contract Award: Jan 02
- **Technical Contact:** Wayde Thomka 703 704-3441
- **Acquisition Contact:** Debbie Gilligan 732 532-5454
Joe Manganaro 732-427-1389
- **Solicitation # or RFQ #:** N/A

Classified



Image Intensification (I2) Night Vision Goggles



Unclassified



Image Intensification OMNIBUS System Performance

- AN/AVS-6 Provides Capability for Night Time Flying Including Nap-of-the-Earth. Designed for Use with Army's SPH-4B and HGU-56/P Helmets.
 - FOV: 40° Circular
 - Resolution: 1.3 cyc/mr
 - Weight: 0.6 Kg (21 oz)
 - Magnification: Unity
- AN/PVS-7 Provides Individual Soldiers Ability to Perform Night Time Operations Including Driving, Walking, Map Reading, First Aid, and Maintenance. Designed for Use with Rifle Mounted Aiming Lights
 - FOV: 40°
 - Resolution: 1.15 cyc/mr
 - Weight: 0.7 Kg (25 oz)
 - Range: 150m @ starlight
- AN/PVS-14 Provides Leaders of Combat Infantry Units Ability to Perform Observation and Command and Control Functions. Designed for Use with Rifle Mounted Aiming Lights.
 - FOV: 40°
 - Resolution: 1.3 cyc/mr
 - Weight: 0.4 Kg (14 oz)
 - Range: 150m @ starlight

Unclassified



Image Intensification System Desired Enhancements

- Desired Enhancements for Image Intensifiers:
 - Increased Range
 - Increased Reliability
 - Improved Image Intensifier Performance as Indicated in Table

	Ground	Aviation
Resolution (lp/mm)	≥ 64	≥ 64
Signal to Noise Ratio (db)	≥ 25.0	≥ 26.0
Luminance Gain (x 1000)	50 - 70	50 - 70
"Halo" (mm)	< .75	< .75
High Light Level Center Resolution (lp/mm)	≥ 40	≥ 40
"End of Life" Performance		
Luminance Gain (x 1000)	≥ 40	≥ 40
Signal to Noise Ratio (db)	22.0	22.0

Unclassified



Image Intensification OMNIBUS Contract Opportunity

- **Objective:** Procurement of AN/PVS-7 and AN/PVS-14 Night Vision Goggles and AN/AVS-6 Aviator's Night Vision Goggles and Associated Spares
- **Contract Type:** Firm-Fixed Price; Up to Two Awards, 3 Year Multi-Year w/ Basic Quantity and Quantity Options in Each Year, 2 One Year Options (Total 5 Years)
- **Estimated Value:** Basic = \$100-120M, Options \$80-\$100
- **Key Milestones:** RFP Release - 4QFY01
Award - 2QFY02
- **Technical Contact:** Mr. Gregory Patrick 703-704-1687
- **Acquisition Contact:** Mr. Jack Kulaga 732-427-1356
- **Solicitation # or RFQ #:** N/A

IEW&S/0101

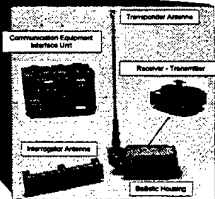


BCIS Program



- Selected technology for NATO interoperability
- S&T Program to Develop Miniaturized BCIS
- Applicable to RW Platforms

- Millimeter Wave (38GHz) Q&A System
- Works Effectively on Dirty Battlefield
 - Smoke, Dust/Sand, Rain/Fog
 - Beyond Visual Range
- Probability of Correct Friend ID:
 - Threshold: 90%, Objective: 99%
- Range: 150m to 5500m
- Response Time: <1sec
- Selected Technology for NATO Interoperability



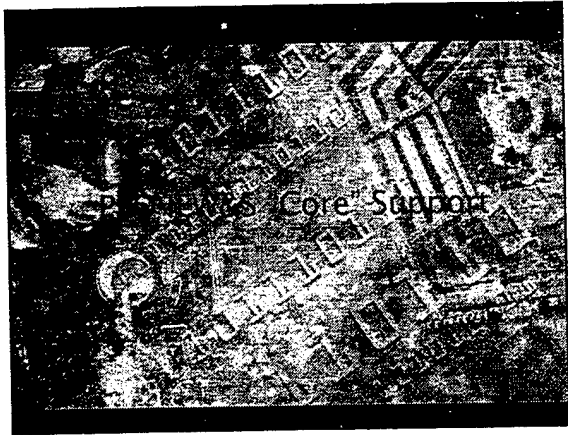
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BCIS Program

- **Objective:** To Obtain FRP Quantities for BCIS Program
- **Contract Type:** Firm-Fixed Price
- **Estimated Value:** \$825-950M (A&B Kits)
- **Key Milestones:** RFP Release - 1QFY03
Contract Award - 2QFY03
- **Technical Contact:** Dave Witteveen 732-427-5899
- **Acquisition Contact:** Kim Frey 732-427-1428
Judy Anderson 732-427-1428
- **Solicitation # or RFQ #:** N/A

IEW&S/0101



IEW&S PEO IEW&S "Core" Support

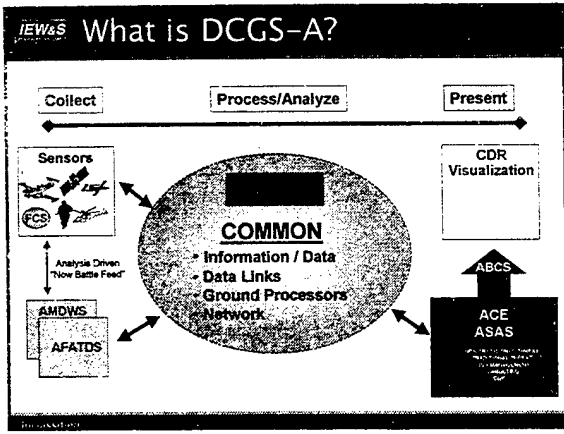
- Core Support is weapons systems program management support
- Includes - Independent "Core" technical and programmatic assessments and evaluations
- Excludes - "matrix", graphics/creative services and information technology
- Core Support for PEO IEW&S and PM's worldwide

Unclassified

IEW&S PEO IEW&S "Core" Support

- Objective: To Acquire Worldwide Core PM support for PEO IEW&S/PM's
- Contract Type:
 - Small Business Set-aside. NAICS: 541330
 - 5 year IDIQ or award term; Single award DO's either FFP and/or T&M, all will be performance based services with offeror suggested performance metrics
- Estimated Value: \$25M-29.9M
- Key Milestones:
 - Jun 01 - Draft SOO and one-on-ones
 - Jun 02 - RFP
 - Aug 02 - Award
- Technical Contact: Joe Brady, CECOM SADB 732-532-4512
- Acquisition Contact: Debra Shreve, CECOM KO 732-532-2461
- Solicitation # or RFQ #: N/A

Unclassified



IEW&S What is DCGS-A?

An integration of existing and future ISR ground processors to produce a common network-centric, modular, scalable, Multi-INT interoperable architecture*

* Army implementation of DOD DCGS

- IEW&S DCGS-A**
- **Objective:** To Obtain Development Contract
 - **Contract Type:** TBD
 - **Estimated Value:** TBD
 - **Key Milestones:** RFP Release: 4QFY02
Award 2Q FY03
 - **Technical Contact:** Mr. John Quinn, 732-532-4497
 - **Acquisition Contact:** Aaron Rappaport, 732-532-3428
 - **Solicitation # or RFQ #:** N/A



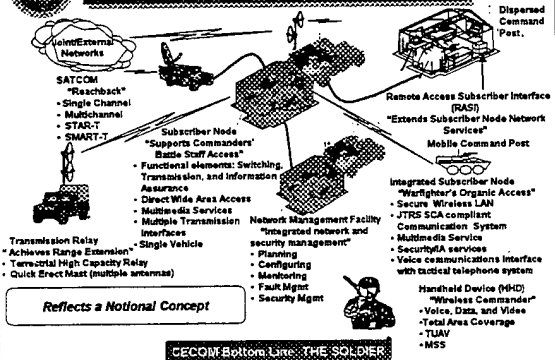
Warfighter Information Network Tactical (WIN-Tactical)

Don Keller
Chief, Technical Management
Division
Project Manager
WIN-Terrestrial

CECOM Bottom Line: THE SOLDIER



WIN-Tactical Subsystems





WIN-Tactical Requirements Overview

WIN-Tactical is a "New Start" tactical, digital communications system enabler to the Army's Interim/Objective Force that will provide advanced commercial-based networking capability to the Warfighter from Theater to Battalion CPJ/TOCs (Replaces TRITAC/MSE and more):

- Provides a *reduced footprint and force structure, increased data capacity, enables Command & Control On-The-Move (C2OTM) capability, and commonality of equipment*
- Provides wired and wireless communications to support voice, data, and video information exchange requirements
- Provides seamless connectivity among ABCS, GCSS, and other C4ISR within the battlespace
- Provides network security at multiple levels (Unclassified, Secret, and TS//SI)
- Interfaces with terrestrial, airborne, and satellite-based transport systems
- Provides network management for all tactical C4 Systems

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Proposed WIN-Tactical Acquisition Strategy

- **System Integration/Demonstration Phase (FY02-04):**
 - Awards two System Integration/Demonstration contracts
 - Delivers Modeling/Simulation of Systems Architecture
 - Conducts Field Demonstration
 - Maintains Competition through Production Award
 - Performs Army Test and Evaluation Command (ATEC) Operational Assessment for Milestone C Low Rate Initial Production (LRIP) Decision

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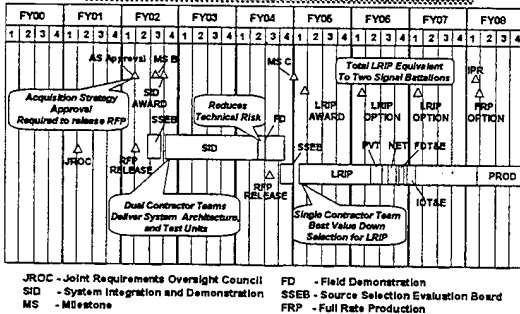
Proposed WIN-Tactical Acquisition Strategy

- **Low Rate Initial Production (LRIP) Phase (FY05-07):**
 - Downselects and Awards a production contract, with LRIP options, to Best Value proposal
 - Procures Test Unit for Product Verification Test (PVT), Force Development Test and Evaluation (FDT&E), and Initial Operational Test and Evaluation (IOT&E)
 - Establishes and Sustains Production Capability
 - Accelerates First Unit Equipped (FUE)
- **Full Rate Production Phase (Initial FY08):**
 - Exercise production options with range quantities
 - Provides New Equipment Training (NET), Fielding, Institutional Training, Logistics, and Sustainment, etc.
 - Implements Pre-Planned Product Improvement (P3I) program

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Proposed WIN-Tactical Program Schedule



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WIN-Tactical Contract Information

- **OBJECTIVE:** Next Generation Army Common User System
- **CONTRACT TYPE:** Firm Fixed Price (FFP) Contract
- **ESTIMATED VALUE:** TBD
- **KEY MILESTONES:** RFP Release 2Q/02
SID Award 4Q/02
- **TECHNICAL CONTACT:** Mr. Don Keller, 732-532-5997
- **ACQUISITION CONTACT:** Mr. Ken Tedeschi, 732-532-4846
- **SOLICITATION #:** DAAB07-01-R-F407 (Pre-Solicitation)

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**Systems Management Center
Contract Opportunities**

Mr. Eric Goodman
Associate Technical Director
SYSTEMS MANAGEMENT CENTER

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**Mobile Detection Assessment
Response System - Exterior
(MDARS - E)**






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**Mobile Detection Assessment
Response System - Exterior
(MDARS-E)**

- MDARS-Exterior
 - MDARS-Exterior is being designed to operate in general storage yards, depots, Arms, Ammunition, and Explosives (AA&E) storage areas, air fields, rail yards and port facilities
 - MDARS-Exterior will randomly navigate exterior perimeters and roadways, while performing intrusion detection, inventory assessment, barrier assessment, visual assessment and audio response
 - Technologies being used include: Navigation, Obstacle Avoidance, Intrusion Detection, Product Assessment, Lock Reading Capabilities


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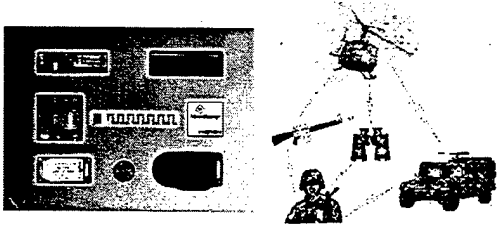
Mobile Detection Assessment Response System - Exterior MDARS-E

- **OBJECTIVE:** Demonstrate the capability to conduct semi-autonomous intrusion detection and product assessment via an unmanned platform.
- **CONTRACT TYPE:** Cost Plus Incentive Fee
- **ESTIMATED VALUE:** \$5M to \$6M
- **KEY MILESTONES:** RFP Release, 4QFY01
Projected Award, 1QFY02
- **TECHNICAL CONTACT:** LTC Michael Bonheim,
(703) 704-2416
- **ACQUISITION CONTACT:** Mr. Richard Sturgis,
(703) 325-6068


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High Value Item Security System (HVISS)




CECOM Bottom Line: THE SOLDIER




High Value Item Security System (HVISS)

- Provide Commanders a system to locate and recover high value items in both garrison and field environments
- Increases readiness and sustainability by ensuring the unit maintains on-hand equipment accountability of highly pilferable, sensitive items such as Night Vision Devices and global positioning devices, etc
- The HVISS Phase II will be applicable for other high-value, high technology items now fielded or soon to be fielded
- Technologies being used include radio frequency identification


CECOM Bottom Line: THE SOLDIER




Commercial Intrusion Detection System (CIDS)

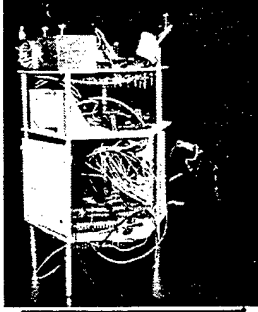


- **OBJECTIVE:** Program provides state of the art nonstandard commercial intrusion detection equipment to meet the physical security and force protection needs
- **CONTRACT TYPE:** Blanket Purchase Agreements for GSA Schedule Vendors
- **ESTIMATED VALUE:** \$10M-\$12M over 5 Years
- **KEY MILESTONES:**
 - Award Blanket Purchase Agreements - On-going
- **TECHNICAL CONTACT:** LTC Michael Bonheim, (703) 704-2416
- **ACQUISITION CONTACT:** Mr. Mervyn Buzal, (703) 325-1711 **CECOM Bottom Line: THE SOLDIER**




ELECTRONIC TRIP FLARE (ETF)






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Electronic Trip Flare (ETF)




- Provides lightweight, manportable, easily emplaced and recoverable motion activated device designed to provide early warning and illumination to individuals and small units
- Provides commanders with an increase in time to effectively determine the most appropriate tactical response
- Used as an independent/individually employed early warning device or as a part of a security concept layer

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Electronic Trip Flare (ETF)




- **OBJECTIVE:** Provide an early warning tactical security capability to individuals and small units
- **CONTRACT TYPE:** Cost Plus Incentive Fee
- **ESTIMATED VALUE:** \$14M-\$22M
- **KEY MILESTONES:** RFP Release, 3QFY02
Projected Award, 4QFY02
- **TECHNICAL CONTACT:** LTC Michael Bonheim,
(703) 704-2416
- **ACQUISITION CONTACT:** Ms. Mary Byrd,
(703) 325-1714


CECOM Bottom Line: THE SOLDIER




AMMPS

Advanced Medium-sized Mobile Power Sources

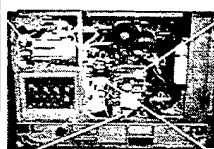





Digital Controls
Power Electronics
with Cooling Fan




Commercial Engine



AMMPS 5KW Proof of Concept




Wire Shock
Mounts




Rotor Gap
PM Alternator

CECOM Bottom Line: THE SOLDIER



AMMPS

Advanced Medium-sized Mobile Power Sources



Advanced Materials:

- Reduce Weight
- Reduce Signatures
- Improve Thermal Management

Commercial High Speed Engine:

- Reduce Weight
- Improve Engine Combustion and Efficiency

Variable Speed with Power Electronics:

- Reduce Fuel Consumption and Emissions
- Eliminate Wet Stacking
- Reduce Configurations

Digital Controls:


- Increase Reliability
- Provide Prognostics and Diagnostics

Reduced Weight

Reduced Total Ownership Cost

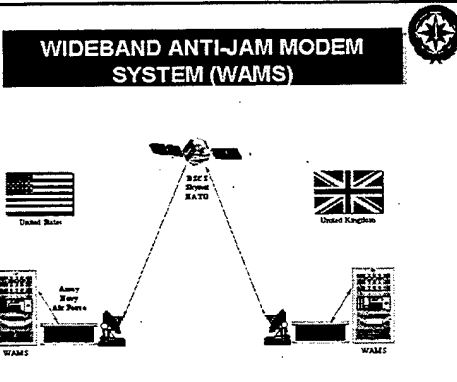
Increased Reliability

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- **OBJECTIVE:** Provide Next Generation Mobile Electric Power Generating Sources
- **CONTRACT TYPE:** RDTE (FY03-FY06)
- **ESTIMATED VALUE:** RDTE \$10M (4 Yr)
- **KEY MILESTONES:** Projected Award Dates:
Phase I RDTE (Multiple Contractors) FY03
Phase II RDTE (Down Select to a Single Contractor) FY05
- **TECHNICAL CONTACT:** Selma Matthews, (703) 704-3377
- **ACQUISITION CONTACT:** Lynwood Rabon, (703) 704-3188

CECOM Bottom Line: THE SOLDIER



CECOM Bottom Line: THE SOLDIER

Wideband Anti-jam Modem System (WAMS)

- A need for high capacity protected (Anti-Jam/Anti-Scintillation) transponder Super High Frequency (SHF) satellite communications exists for US strategic fixed site user
- WAMS is a new program to satisfy these existing requirements (approximately 77 systems)
- WAMS supports communication data rates up to 2048 kbps
- WAMS will be integrated into Objective Defense Satellite Communication System (DSCS) Operations Center System (ODOCS) environment

CECOM Bottom Line: THE SOLDIER



**Wideband Anti-jam Modem System
(WAMS)**



- **OBJECTIVE:** To procure WAMS production modems and support
- **CONTRACT TYPE:** Firm Fixed Price
- **ESTIMATED VALUE:** Contract Base Year \$18M-\$20M
- **KEY MILESTONES:** RFP Release – 4QFY01
Contract Award – 1QFY02
- **TECHNICAL CONTACT:** Jay Hicks, (732) 532-2162
- **ACQUISITION CONTACT:** Linda College, (732) 532-2924

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