

AD-A195 351

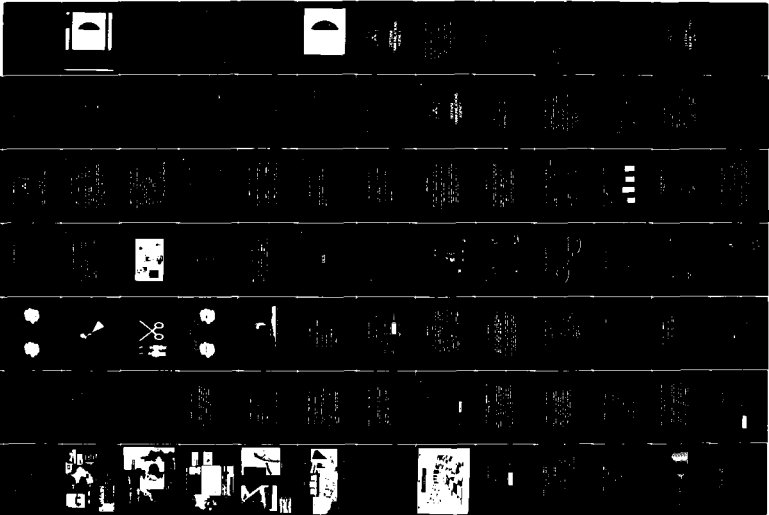
AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS
ASSOCIATION) SYMPOSIUM (2ND... (U) DEFENSE COMMUNICATIONS
AGENCY ARLINGTON VA APR 88

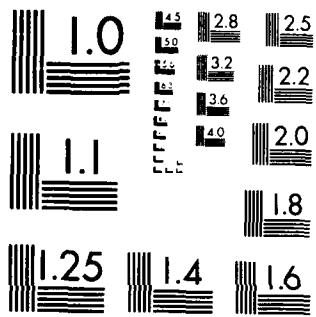
1/3

UNCLASSIFIED

F/G 25/3

NL





OTIC FILE COPY

(1)

AD-A195 551

AFCEA Spring '88 Symposium "DCA Forecast To Industry"

Presented
by the



Defense Communications Agency

In coordination with
AFCEA International
and the
NOVA Chapter

DISTRIBUTION STATEMENT A

Approved for public release
Distribution Unlimited

Marriott Crystal Gateway
Arlington, Virginia
31 MARCH - APRIL 1, 1988

88 6 1 150

88 6 1 150

A NOTE OF THANKS

There are many people who are responsible for making this second annual DCA Forecast to Industry a success. As is usual with an effort of this scope, there are a few whose leadership and support have been essential.

Of course the DCA Forecast to Industry depends primarily upon the leadership of DCA. We would like to recognize LTG John T. Myers, the Director, DCA and Manager, NCS, whose vision and leadership made it a success. We also want to thank Mr. Ray Martone, DCA Competition Advocate, for his untiring efforts, and Ms. Susan Jimenez, the Activity Competition Advocate, who ensured that the needs of industry were carefully considered. A special thanks to each of the DCA speakers who shared their goals and programs with industry.

Another group that deserves recognition is the AFCEA/NOVA Chapter with Yale Weatherby, AYDIN, Chapter President. The AFCEA/NOVA team that provided direct support includes:

Curt Bassett, PRC, who provided outstanding support as the AFCEA/NOVA Vice President for Special Events

Bob Lord, ELS, who handled finances

Gale Nellans, Geodynamics, who worked registration and security

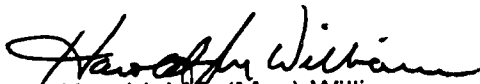
George Bafundo, GTE, who managed publicity

Steve Rudd, Space Applications Corporation, who handled general support and publications

Ms. Bev Sampson, DCA, and Major Sam Robinson, USAF, who made protocol arrangements

Steve Carrier, PRC, who helped arrange facilities and food service

Let me also thank the many other people who contributed to the success of this Symposium. We hope it has been useful to industry, as well as to the DCA.


Harold J.M. (Mac) Williams
Co-chairman
Vice President, PRC

DCA Forecast to Industry

— Agenda —

Thursday, March 31

- 0730 Registration and Continental Breakfast
- 0800-0820 Opening Remarks
Harold J.M. Williams, Co-chairman
Division Vice President, C3 Systems
Planning Research Corporation
- AFCEA Welcome
Gen John Wickham, Jr., USA (Ret.)
President, AFCEA International
- 0820-0835 DCA/NCS Welcome
Lt Gen John T. Myers, USA
Director, DCA; Manager NCS
- 0835-0945 DCA/NCS Organizational Overview
Ms. Susan Jimenez
Activity Competition Advocate
- 0845-0915 Resources & Planning Overview
Mr. John Beach
Director, Resource Management Directorate, DCA
- 0915-0935 R&D Technology
Dr. Gordon K. Soper
Associate Director for Engineering and Technology
- 0935-1000 BREAK
- 1000-1020 Contract Overview
Mr. Raymond Martone
Agency Competition Advocate, DCA
- 1020-1050 Defense Communications System Organization Overview
Brig Gen Phillip E. Bracher, USAF
Director, DCSSO, DCA
- 1050-1120 Joint Data Systems Support Center Overview
Mr. Glenn Stevener
Director, JDSSC, DCA
- 1120-1150 National Communications System Overview
Mr. Ben Morriss
Deputy Manager, NCS
- 1200-1330 LUNCH- Honorable Robert Costello, Keynote Speaker
- 1330-1400 Joint Tactical Command, Control and
Communications Agency
BG George A. Bombel
Director, JTC3A, DCA
- 1400-1440 Center for Command, Control and
Communications System Overview
Dr. David T. Signori, Jr.
Director, C4S, DCA
- 1440-1525 Defense Commercial Communications
Office Overview
COL Bill Penny, USAF
Commander, DECCO, DCA
- 1525-1540 BREAK
- 1540-1600 Small Business Brief
Mr. Glen Moore
Deputy Director, Small & Small
Disadvantaged Business Utilization
Program, DCA
- 1600-1630 Closing Remarks
- 1645-1900 NO HOST SOCIAL

Friday, April 1

- 0800-0810 Administrative Remarks
- 0810-0930 DCSSO Program Overview
o Defense Data Network (DDN)
o Defense Switched Network (DSN)
o Defense Satellite Communications
System (DSCS)
- Questions and Answers
- 0930-0945 BREAK
- 0945-1100 JDSSC Program Overview
o Analytical Support to OSD
o ADP Support to OJCS
o WWMCCS ADP Support
- Questions and Answers
- 1100-1200 JTC3A Program Overview
o Joint Test Element SETA
o Joint Test Center SETA
o Joint Test Center Operation and
Maintenance
- Questions and Answers
- 1200-1400 LUNCH- Lt Gen John T. Myers, Guest Speaker
- 1400-1430 NCS Program Overview
o National Emergency Telecommunications
Service (NETS)
- Questions and Answers
- 1430-1500 C4S Program Overview
o Command Center Improvement Program
o Meteor Burst Communications
- Questions and Answers
- 1500-1520 BREAK
- 1520-1620 C4S Continued
o MILSATCOM Architecture for the 21st
Century
o DCS Architecture for the 21st Century
o USCINTRANSOM C3 Architecture
- Questions and Answers
- 1620-1630 CLOSING REMARKS



Accession For	
NTIS CR&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced and Justification	<input type="checkbox"/>
By <i>per the</i>	
Dist	
Availability Codes	
Dist	
A-1	

Special Notice

The announcement below, which was made several times during the course of the program, also applies to the key vignettes used in the DCA Forecast to Industry, held at the Crystal Gateway Marriott, 31 March and 1 April 1988.

These briefings are for informational purposes only and do not represent any commitment on the part of the Defense Communications Agency to procure any further system or to enter into any contracts in an area which may be covered by the briefings or alluded to by any participant at the briefings. Additionally, programs being briefed may not be available for foreign participation.

Please note the funding data presented in these briefings are the total program/project estimated cost and are not representative of the funding which may be obligated for any given contract.

31 March 1988

**AFCEA Spring '88 Symposium
"DCA Forecast
To Industry"**

**Presented
by the**

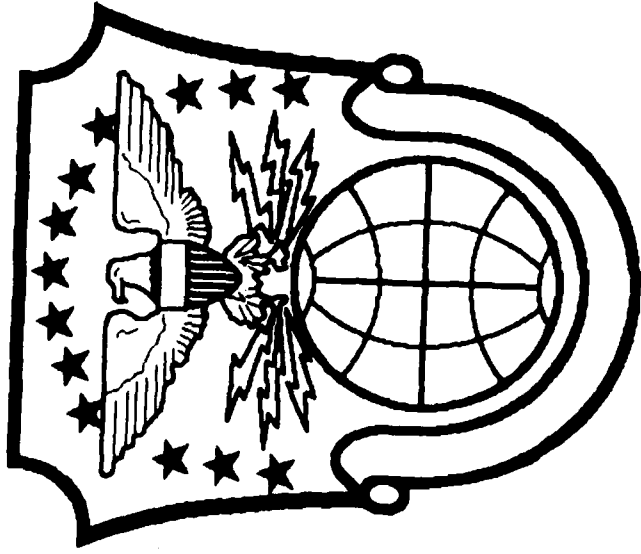


Defense Communications Agency

**In coordination with
AFCEA International**

**and the
NOVA Chapter**

**Marriott Crystal Gateway
Arlington, Virginia
31 MARCH - APRIL 1, 1988**



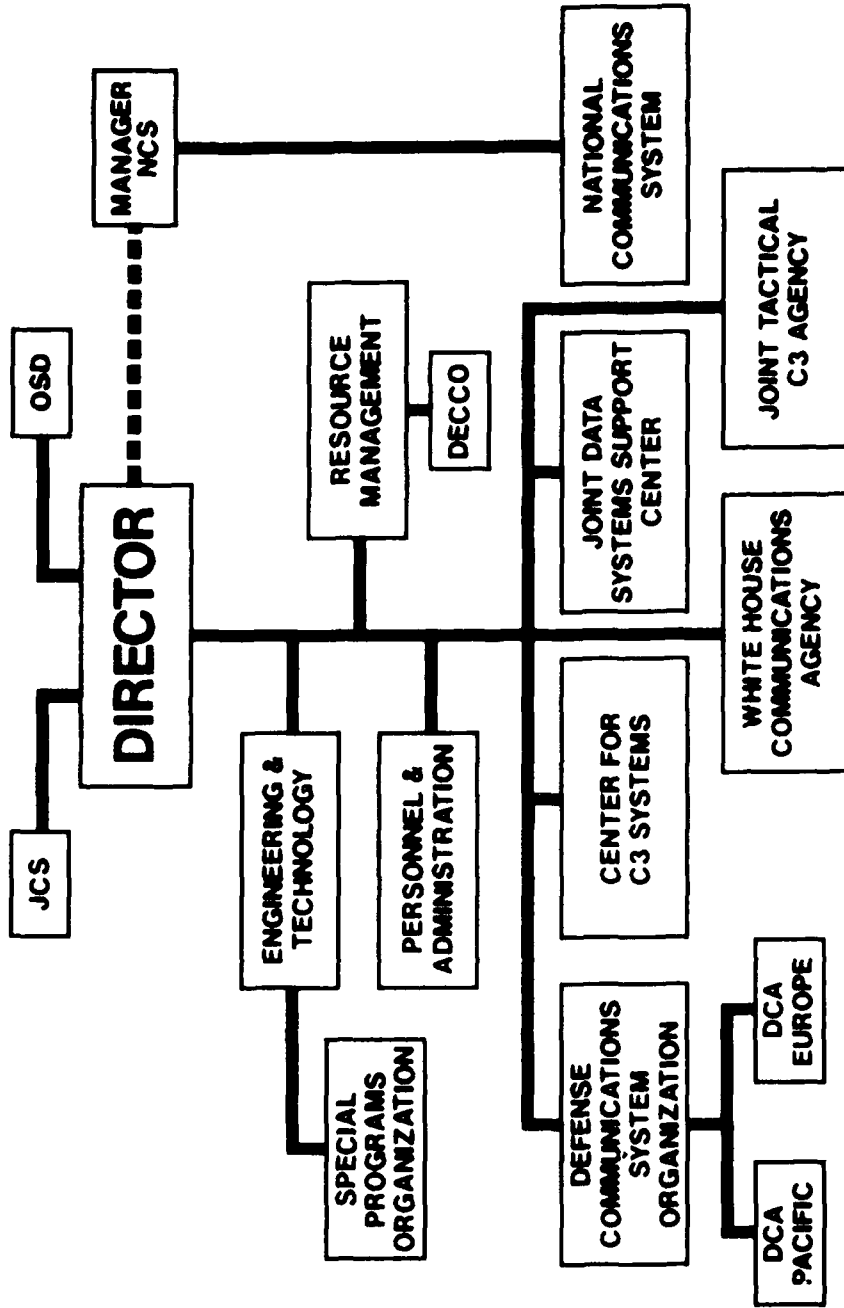
DEFENSE COMMUNICATIONS AGENCY

074-1-FEB 88-RC

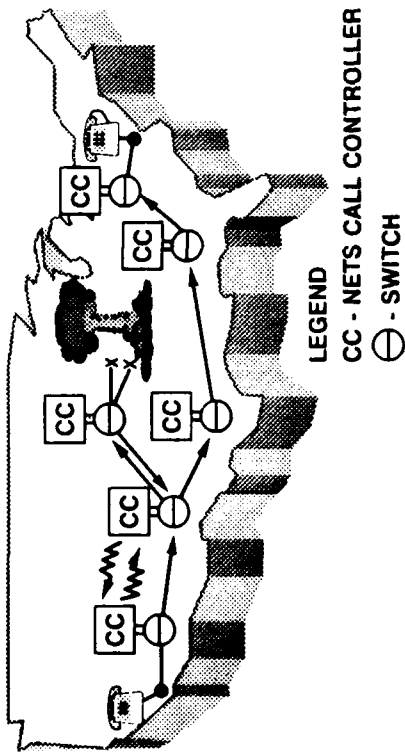
WHAT WE HAVE IN STORE FOR YOU

- **RESOURCE AND PLANNING OVERVIEW**
- **R&D TECHNOLOGY**
- **COMPETITION ADVOCATE, SMALL BUSINESS CONTRACT OVERVIEW**
- **DEPUTY DIRECTORS OVERVIEW OF THEIR DIRECTORATES/ PROGRAMS - DECCO OVERVIEWS**
- **SPECIFIC PROGRAM BRIEFINGS FROM EACH DIRECTORATE**
- **KEY NOTE LUNCHEON ADDRESS EACH DAY**
 - **UNDER SECRETARY FOR ACQUISITION - HONORABLE DR. COSTELLO**
 - **DIRECTOR, DCA/MANAGER NCS - LIEUTENANT GENERAL, JOHN T. MYERS, USA**

DCA ORGANIZATION



NATIONWIDE EMERGENCY TELECOMMUNICATIONS SERVICE



FUNCTIONAL DESCRIPTION OF NETS

- SUPPORTS EXECUTIVE AGENCIES DURING NATIONAL EMERGENCIES
- EXPLOITS SURVIVING ASSETS OF PSN
- CIRCUMVENTS LIMITED ROUTING OF PSN
- DISTRIBUTED CALL CONTROLLING MECHANISMS
- MULTIPLE CARRIERS, LOCAL OPERATING COMPANIES
- WILL SUPPORT VOICE AND 2.4KB/S DATA

CONTRACT DATA

CONTRACTING AGENCY: DECCO
 POINT OF CONTACT: DON MILLER
 LOCATION: SCOTT AFB
 PRIME CONTRACT PERIOD:
 DEC 90 - DEC 95
 PLUS OPTION YEARS

MILESTONES

- RELEASE OF RFP AUG 89
- CONTRACT AWARD DEC 90
- IOC DEC 93
- FOC FY 96

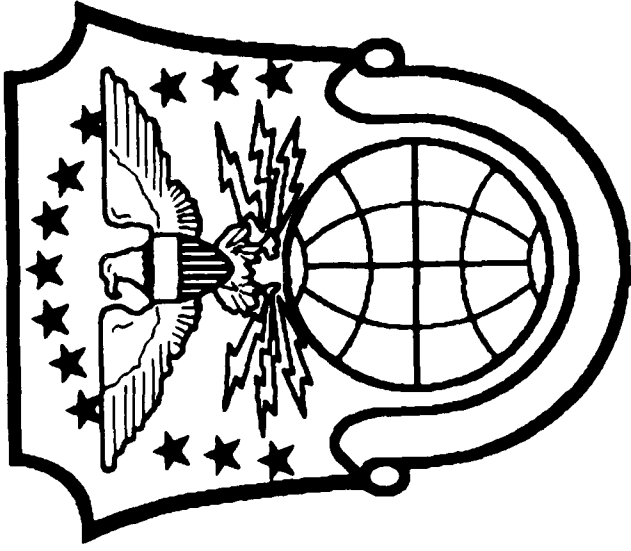
#057-CV

TELECOMMUNICATIONS ARCHITECTURE MAJOR CONTRACTUAL EFFORTS

CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA 100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN & HAMILTON	> 10M	MAY 87 - MAY 90
DCA 100-87-C-0101	SHARES	C-CUBED	< 1M	JUN 87 - JUN 88
DCA 100-86-C-0015	NETS, TASK IV	AT&T	> 10M	JAN 86 - APR 88
DCA 100-87-C-0139	NETS APPLICATION TO NTI DM.S FAMILY	NTI	< 10M	SEP 87 - MAR 90
DCA 100-87-C-0142	US SPRINT SUPPORT TO NETS	US SPRINT	< 3M	SEP 87 - MAR 90
	MCI SUPPORT TO NETS	MCI	< 3M	FEB 88 - AUG 90
	NETS MAINTENANCE AND CONFIGURATION MGMT	NETWORK SOLUTIONS	< 5M	JAN 88 - JAN 91
DCA 100-87-C-0042	CSI PILOT PROGRAM	CONTEL	< 5M	AUG 87 - SEP 94
DCA 100-87-C-0043	CSI ITT&C (RCA)	CONTEL	< 10M	AUG 87 - SEP 94

#057-CV



DEFENSE COMMUNICATIONS AGENCY

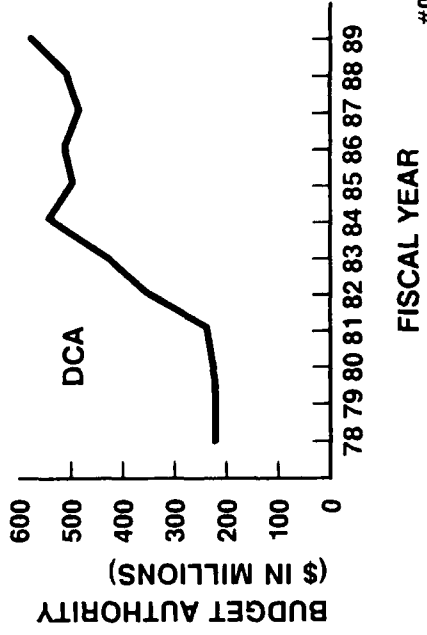
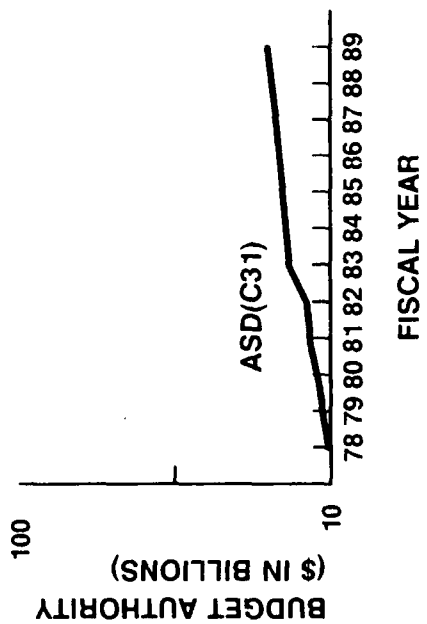
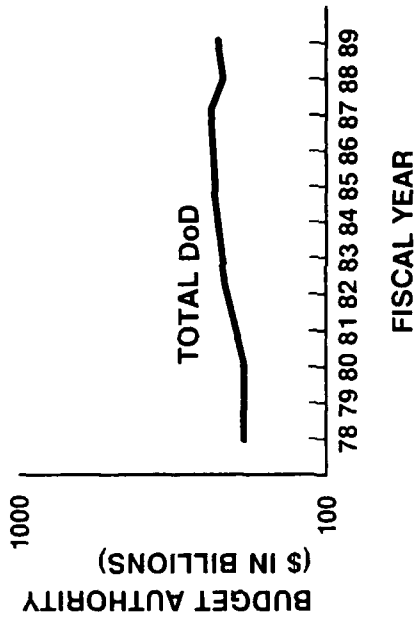
074-1-FEB 88-RC

**RESOURCE MANAGEMENT DIRECTORATE
DEFENSE COMMUNICATIONS AGENCY TOTAL FUNDING
(\$ IN MILLIONS)**

	<u>FY 1984</u>	<u>FY 1985</u>	<u>FY 1986</u>	<u>FY 1987</u>	<u>FY 1988</u>	<u>FY 1989</u>
					APPRO-	AMENDED
					PRIATION	BUDGET
DIRECT APPROPRIATIONS	\$ 410	\$ 409	\$ 466/1	\$ 478	\$ 488	\$ 531
EXTERNAL FUNDING OF WORK	174	320	338	228	330	330
INDUSTRIAL FUND (CCMM)	889	908	1,110	1,225	1,224	1,320
DECCO OVERHEAD (INCLUDED ABOVE)	<u>(7)</u>	<u>(11)</u>	<u>(11)</u>	<u>(13)</u>	<u>(17)</u>	<u>(17)</u>
TOTAL FUNDING	\$1,473	\$1,637	\$1,914	\$1,931	\$2,042	\$2,181

/1 THE BUDGET FOR THE NEWLY-FORMED
JTC³A WAS FIRST REFLECTED IN FY 1986
APPROPRIATIONS ACT.

DoD/DCA BUDGET AUTHORITY (FY 1988 CONSTANT DOLLARS)



#094-CV

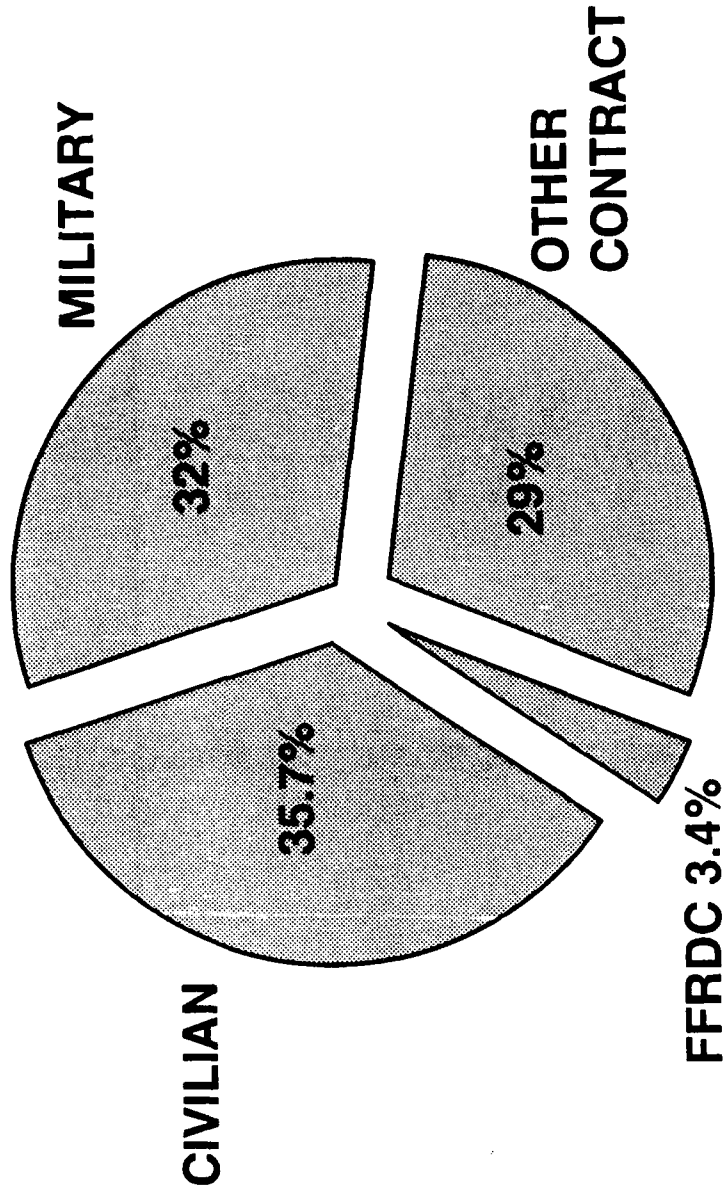
DEFENSE COMMUNICATIONS AGENCY BUDGET SUMMARY BY CATEGORY

(AS OF FEB 1988)
(\$ IN MILLIONS)

	<u>FY 1987</u>	<u>FY 1988</u>	<u>FY 1989</u>
CIVILIAN PAY	87.8	92.6	93.4
OPERATING EXPENSES	88.0	106.8	100.8
CONTRACTS	<u>301.8</u>	<u>288.9</u>	<u>336.9</u>
TOTAL	477.6	488.3	531.1
	<u>CHANGE</u>	<u>CHANGE</u>	
	<u>FY 1987-1988</u>	<u>FY 1988-1989</u>	
CIVILIAN PAY	+ 4.8	+ .8	
OPERATING EXPENSES	+ 18.8	- 6.0	
CONTRACTS	<u>- 12.9</u>	<u>+ 48.0</u>	
TOTAL	+ 10.7	+ 42.8	

DCA EMPLOYMENT MIX

FY 1987



EMPLOYMENT MIX OF DCA

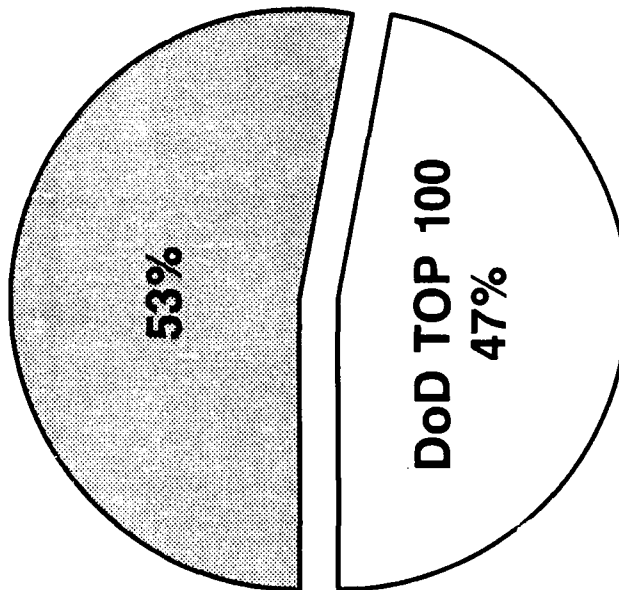
	FY87	FY88	FY89
MILITARY			
AUTHORIZED	2,080	2,135	2,141
BUDGET (\$K)	\$96,701	\$98,302	\$98,272
PER CAPITA	\$46,491	\$46,043	\$45,900
CIVILIAN			
WORKYEARS	2,316	2,348	2,349
BUDGET (\$K)	\$96,492	\$101,714	\$102,849
PER CAPITA	\$41,663	\$43,319	\$43,784
FCRC			
TSY	218.9	219.8	199.5
BUDGET (\$K)	\$31,417	\$34,115	\$31,794
PER CAPITA	\$143,520	\$155,209	\$159,368
OTHER CONTRACT			
TSY	1881	1755	1991
BUDGET (\$K)	\$212,791	\$205,696	\$239,647
PER CAPITA	\$113,127	\$117,206	\$120,365

#094-CV

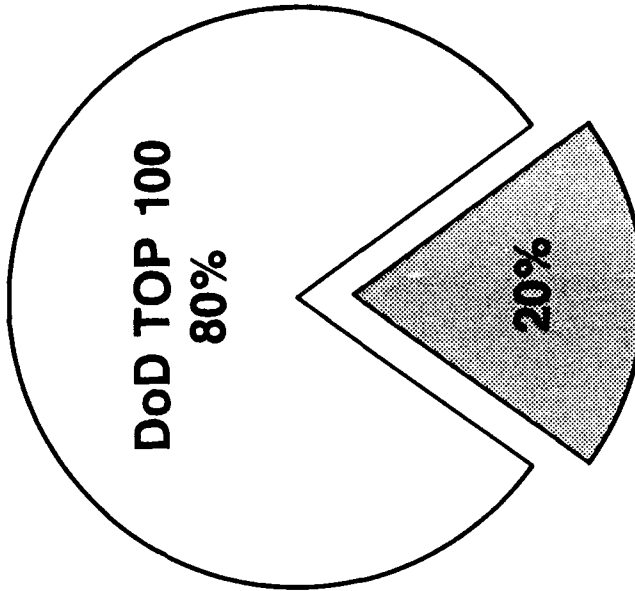
WHERE DoD DOLLARS ARE SPENT TOP 100 DEFENSE CONTRACTORS

FY 1987

DCA



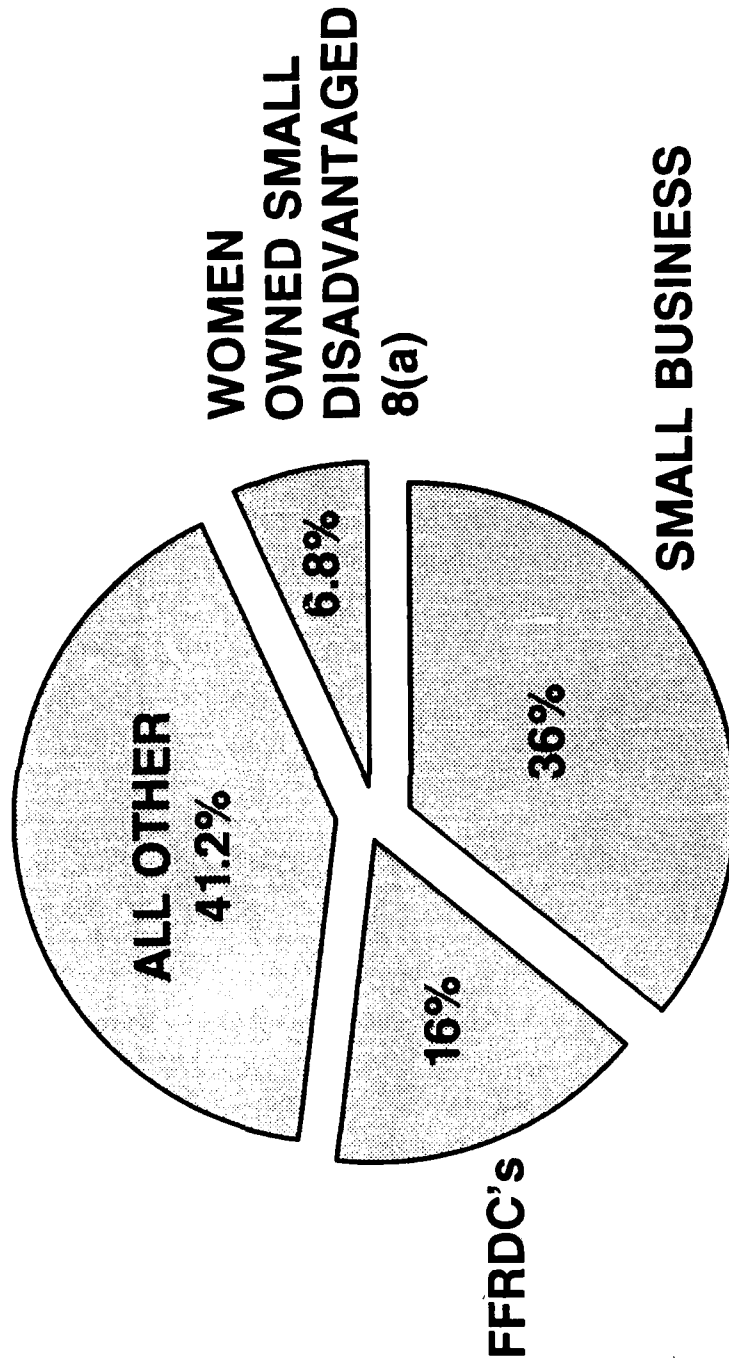
DoD



#094-CV

TOTAL AWARDS

FY 1987



#094-CV

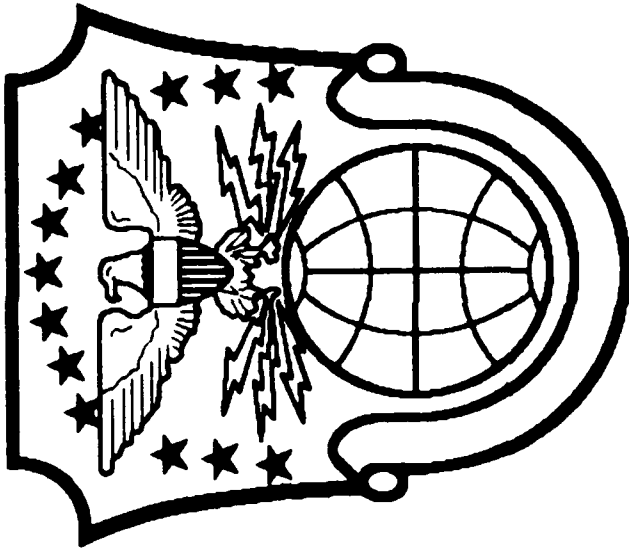
**DCA CONTRACT ADMINISTRATION
FY87**

**DCA HEADQUARTERS \$ 250 MILLION
DECCO \$1.2 BILLION**

RESOURCE MANAGEMENT DIRECTORATE ACQUISITION INITIATIVES

- **RESOURCE DIRECTORATE REORGANIZATION**
 - ESTABLISHMENT OF ACQUISITION ASSOCIATE DEPUTY DIRECTOR
 - EMPHASIS ON "ACQUISITION" VS "PROCUREMENT"
 - SINGLE DCA FOCAL POINT FOR ACQUISITION POLICY
- **DCA ACQUISITION POLICY REVIEW**
 - PURPOSE: STREAMLINE ACQUISITION PROCESS - CUT DOWN ON PROCUREMENT LEADTIME
 - REMOVE OVERLY RESTRICTIVE DCA REGULATIONS
 - INCREASE FLEXIBILITY WITHOUT SACRIFICING CONTROL
 - STUDY OF THE ACQUISITION REVIEW PROCESS
 - PUBLISH "HOW TO" GUIDES AND PROCEDURES TO STANDARDIZE PROCESS
- **CONTRACTING OFFICER REPRESENTATIVES (COR)**
 - RECOGNITION OF COR AS ACQUISITION FORCE MULTIPLIER
 - COR CONFERENCE (16 DECEMBER)
 - EMPHASIS ON TRAINING
 - CUSTOMER ASSISTANCE PROGRAM IN DIRECTORATES TO ASSIST IN PROCESSING ACQUISITION PACKAGES
- **MODEL INSTALLATION PROGRAM WITH DLA**

#094-CV



DEFENSE COMMUNICATIONS AGENCY

074-1-FEB 88-RC

**OFFICE OF THE
ASSOCIATE DIRECTOR FOR
ENGINEERING & TECHNOLOGY**

ROLE OF TECHNOLOGY IN DCA

- **ESTABLISHED NEW POSITION OF ASSOCIATE DIRECTOR FOR ENGINEERING AND TECHNOLOGY**
- **CONDUCT OVERSIGHT OF DCA'S ENGINEERING AND TECHNOLOGY PROGRAMS**
- **PROVIDE INTEGRATING/HORIZONTAL VIEW ACROSS DIRECTORATE BOUNDARIES**
- **INFLUENCE DIRECTION OF FUTURE C3 TECHNOLOGY**
- **ASSESS STATE-OF-THE-ART IN C3 RELATED 21ST CENTURY TECHNOLOGY**
- **TRANSITION EMERGING TECHNOLOGY INTO OPERATIONAL USE**

ISSUES

- APPROPRIATE USE OF LIMITED RESOURCES
- BALANCE BETWEEN NEAR-TERM OPERATIONAL OBJECTIVES AND LONG-TERM GOALS OF OUR R&D PROGRAM
- PRESSING OPERATIONAL PROBLEMS
- EFFECTIVE USE OF R&D SPONSORED BY OTHERS IN OUR COMMUNITY

BUCHSBAUM REPORT

- **DEFENSE SCIENCE BOARD TASK FORCE
ON C2 MANAGEMENT (1987)**

- **RECOMMENDATIONS:**
 - **STRENGTHEN CAPABILITIES FOR C3 TESTING/EXERCISES**
 - **PROVIDE FOR CINCS TO UPGRADE AND EVOLVE THEIR C3
CAPABILITIES**
 - **IMPROVE ACQUISITION POLICIES FOR C3 SYSTEMS**
 - **STRENGTHEN C3 EDUCATION AND TRAINING**
 - **DESIGNATE AN AGENT TO ESTABLISH AN OVERARCHING
C3 ARCHITECTURE. WE ARE DETERMINED THAT DCA
SHOULD BE THE DESIGNATED AGENT.**

INITIATIVES

- **INVEST SOME R&D RESOURCES TO PROVIDE INCENTIVES TO OTHERS IN DOD TO TRANSITION THEIR TECHNOLOGY INTO DCA'S MISSION AREA**
 - **CEMENT JOINT EFFORTS WITH SERVICE LABORATORIES AND DEFENSE AGENCIES**
 - **PROMOTE TECHNOLOGY THRUSTS SUCH AS RAPID PROTOTYPING AND TEST-BEDDING**
 - **ENCOURAGE EFFECTIVE USE OF NON-DEVELOPMENTAL ITEMS**

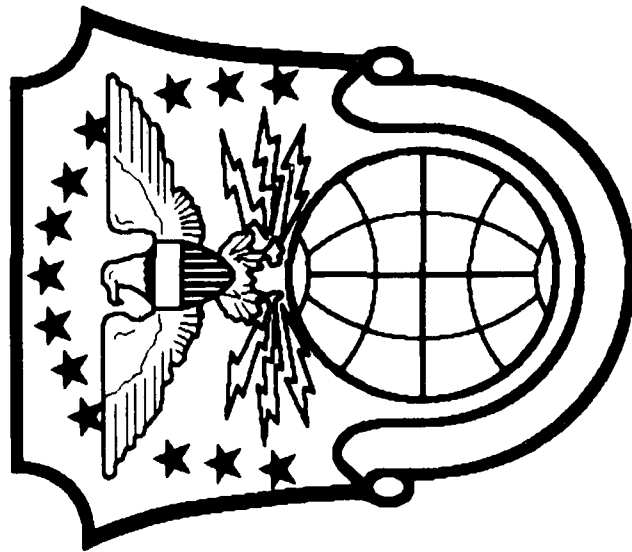
- **JOINT DIRECTORS OF LABORATORIES' TECHNOLOGY PANEL FOR C3**
 - **PROMOTE COOPERATION IN R&D AMONG SERVICE C3 LABS**
 - **STRENGTHEN INTELLECTUAL BASE FOR C2 - BUCHSBAUM**
 - **DEVELOP DISTRIBUTED C3 TEST BED - "SIMNET"**
 - **DCA MEMBER OF ADVISORY GROUP**

- **DCA C3 TECHNOLOGY ASSESSMENT PROGRAM**
 - **GREW FROM ASD (C3I) TASKING**
 - **PLAN FOLLOW-ON NOV 88 CONFERENCE**

SUMMARY

- WORK IN PARTNERSHIP WITH INDUSTRY
 - CONTINUE INVITING INDUSTRY TO JOIN US IN C3 TECHNOLOGY ASSESSMENT WORKSHOPS AND MEETINGS
 - PROPOSE AND REVIEW IR&D PROGRAMS RELEVANT TO THE C3 MISSION OF DCA
 - PROVIDE A CONDUIT FOR TRANSITIONING INDUSTRY NON-DEVELOPMENTAL ITEM SOLUTIONS TO OUR C3 PROBLEMS
 - PROVIDE TEST BEDDING FACILITIES FOR INDUSTRY-PROPOSED SOLUTIONS TO C3 PROBLEMS IN A SIMULATED BUT REALISTIC ENVIRONMENT
- LEVERAGE OUR LIMITED R&D RESOURCES BY AN "OUTREACH PROGRAM" USING CREATIVE MECHANISMS BRINGING YOUR MODERN TECHNOLOGY TO BEAR ON OUR TOUGH C3 PROBLEMS

DEFENSE COMMUNICATIONS AGENCY



**OFFICE OF
AGENCY COMPETITION ADVOCATE &
DIRECTOR OF SMALL BUSINESS**

072-1-FEB 88-RC

BACKGROUND

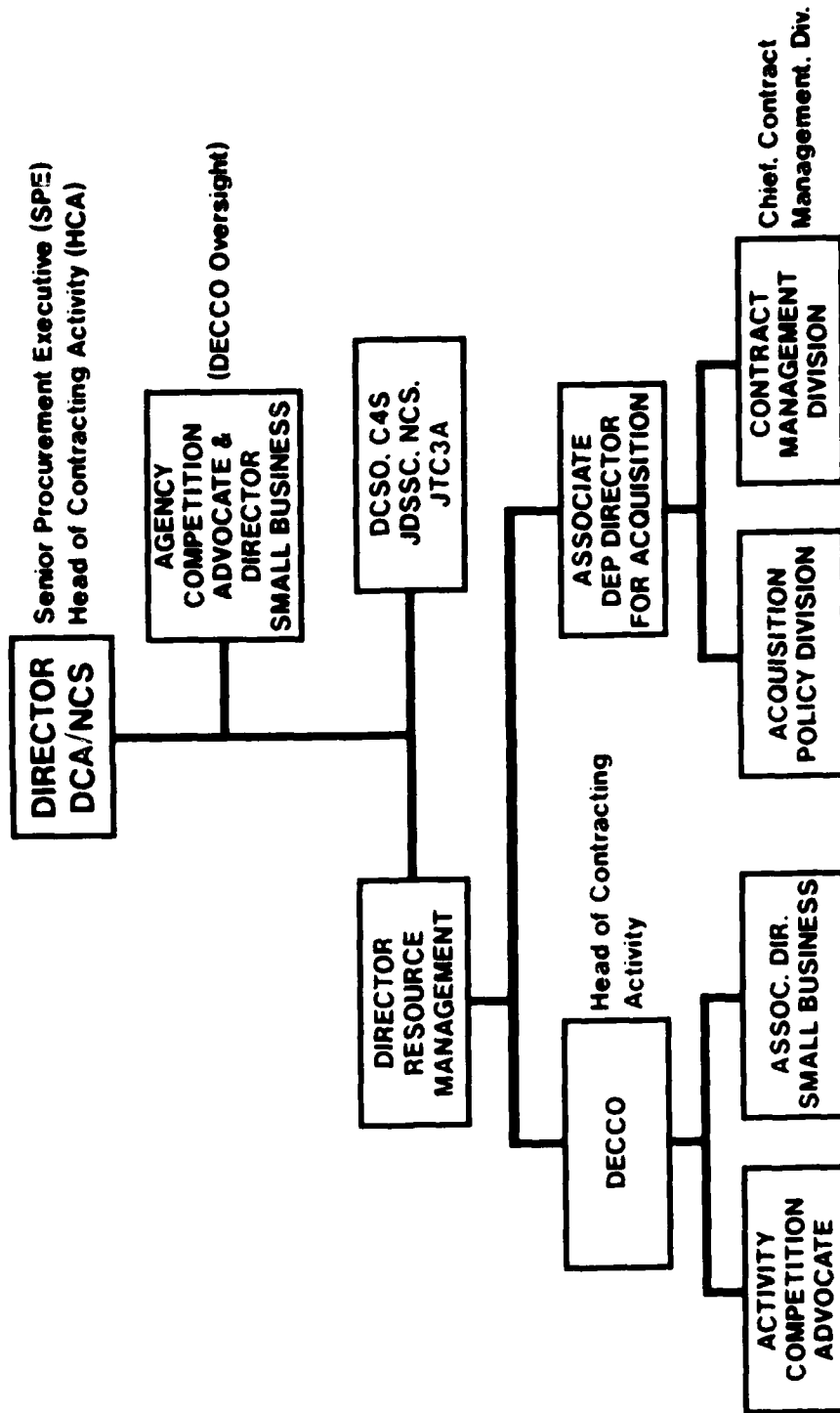
- **COMPETITION IN CONTRACTING ACT (CICA)
ENACTED BY CONGRESS JULY 1984**
- **EFFECTIVE DATE OF CICA 1 APRIL 1985**
- **CREATED NEW EMPHASIS ON COMPETITION**
- **CREATED TWO NEW POSITIONS BY LAW**
 - **SENIOR PROCUREMENT EXECUTIVE (SPE)**
 - **COMPETITION ADVOCATE (CA)**
- **“OTHER THAN FULL AND OPEN COMPETITION”
WILL BE JUSTIFIED IN WRITING AND APPROVED**
- **AUTHORITIES THAT PERMIT “OTHER THAN FULL
AND OPEN COMPETITION”**

COMPETITION IN CONTRACTING ACT (CICA)

COMPETITION ADVOCATE - DUTIES & RESPONSIBILITIES

- 1. PROMOTE FULL AND OPEN COMPETITION**
- 2. REVIEW CONTRACT OPERATIONS AND REPORT TO SPE**
 - OPPORTUNITIES FOR COMPETITION**
 - UNNECESSARY RESTRICTION ON COMPETITION**
- 3. SUBMIT ANNUAL REPORT TO SPE DESCRIBING**
 - ADVOCATES ACTIVITIES, ANY BARRIERS**
 - NEW INITIATIVES, ANY BARRIERS**
 - ACQUISITION TRAINING AND RESEARCH**
- 4. RECOMMEND AGENCY PLANS AND GOALS TO SPE**
- 5. RECOMMEND SYSTEM OF RECOGNITION AND AWARDS**
- 6. CHALLENGE BARRIERS TO COMPETITION INCLUDING UNNECESSARY
DETAILED SPECIFICATIONS AND RESTRICTED STATEMENTS OF NEED**

DCA ACQUISITION STRUCTURE



DCA COMPETITION ADVOCATES

**AGENCY COMPETITION
ADVOCATE**

**RAY MARTONE
(202) 692-5358**

**ACTIVITY COMPETITION
ADVOCATE - HQS**

**SUSAN JIMENEZ
(202) 692-5358**

**ACTIVITY COMPETITION
ADVOCATE - DECCO**

**BILL HECHT
(618) 256-3346**

OBJECTIVE OF CICA

OBTAIN THE BEST QUALITY PRODUCTS
FOR THE GOVERNMENT. AT THE BEST PRICE.
BEST VALUE

AREA OF MAJOR FOCUS

- **LONG RANGE ACQUISITION PLANNING
AND STRATEGIES**
- **DAY TO DAY REVIEW AND APPROVAL**
- **OMBUDSMAN**

OMBUDSMAN

- **MEET WITH INDUSTRY REPRESENTATIVES**
 - **INTRODUCE COMPANIES TO ORGANIZATIONS**
- **RESEARCH INDUSTRY COMPLAINTS (PRE PROTEST)**
 - **FORMAL AND INFORMAL**
- **ACTIVELY REVIEW THE ACQUISITION PROCESS TO**
 - **ENSURE FAIRNESS WHICH PROMOTES GOOD COMPETITION**
 - **PROMOTE GOOD RELATIONS WITH OUR INDUSTRIAL PARTNERS**

CONTACTS

- **ONCE COMMERCE DAILY BULLETIN (CDB) ISSUED,
ALL DISCUSSION THRU CONTRACTING OFFICER**

- **INFORMAL PROTEST, COMPLAINTS, ETC WHICH
INHIBIT OR EFFECT COMPETITION**
 - **1ST DIRECTED TO CONTRACTING OFFICER (CO)
FOR RESOLUTION**

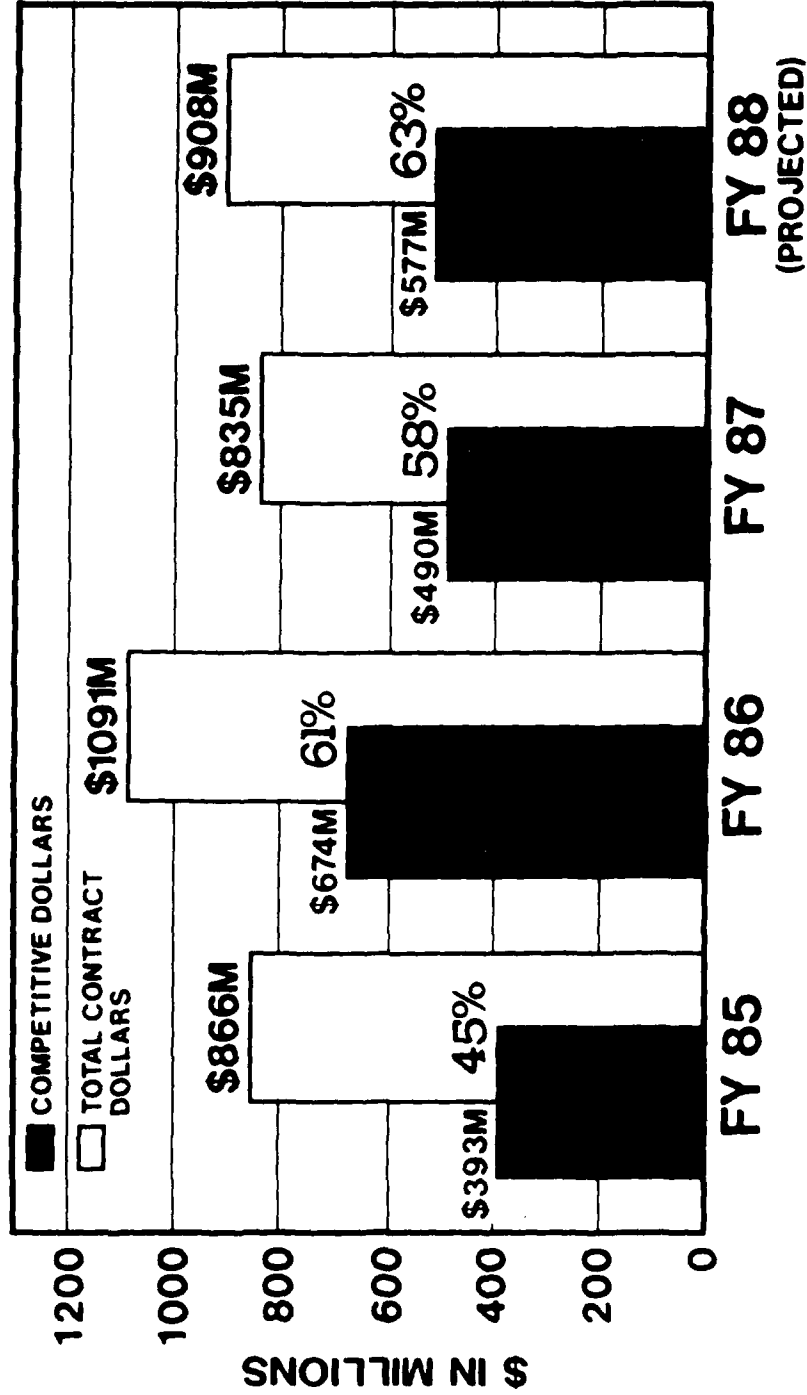
 - **IF NOT RESOLVED, OR AUTONOMY REQUIRED,
CONTACT ACTIVITY OR AGENCY COMPETITION
ADVOCATE**

HQ DCA - POINTS OF CONTACT

<u>ORGANIZATION</u>	<u>NAME</u>	<u>TELEPHONE</u>
DEFENSE COMMUNICATIONS SYSTEM ORGANIZATION (DCSO)	AL HOLLOWAY	746-0722
JOINT DATA SYSTEMS SUPPORT CENTER (JDSSC)	CHUCK GREEN	692-0303
CENTER FOR COMMAND, CONTROL & COMMUNICATIONS SYSTEMS (C4S)	LES STRAUB	692-5527
NATIONAL COMMUNICATIONS SYSTEM (NCS)	MAJ. NICHOLAS ANDRE	692-6929

072-10-FEB 88-RC

DEFENSE COMMUNICATIONS AGENCY COMPETITIVE GOALS



072-11-FEB 88-RC

ACQUISITION INFORMATION FOR INDUSTRY

- 1ST FORECAST TO INDUSTRY
 - ELECTRONIC BULLETIN BOARD
- HQ DCA
 - WESTERN UNION SERVICE EASY LINK
 - ACCESS TO CBD'S
 - SEARCH, KEYWORD, ORGAN, SOL # ETC
 - DATA RETAINED
 - ACQUISITION INFORMATION FILES
 - LIST OF CURRENT CONTRACTS (OVER 100 CONTRACTS)
 - LIST OF KEY PERSONNEL CONTACT IN ACQ PROCESS
 - GENERAL ACQ INFO - POLICY CHANGES, BIDDERS CONFERENCES, ETC
 - ACQUISITION FORECAST - ADVANCED PROC INFO 90-120 DAYS
- DECCO
 - ELECTRONIC BULLETIN BOARD
 - CBD ANNOUNCEMENTS
 - FUTURE ACQ PLANS
 - LIST OF DECCO CONTRACTORS
 - LIST OF DECCO PROCUREMENT KEY PERSONNEL WORLD WIDE
 - ACQ POLICY & PROCEDURAL CHANGES
 - LIMITED INFO ON GOVERNMENT STANDARD

DEFENSE COMMUNICATIONS AGENCY ACQUISITION BULLETIN BOARD

THE OFFICE OF THE COMPETITION ADVOCATE AND DIRECTOR OF SMALL AND DISADVANTAGED BUSINESS UTILIZATION (H130) HAS ESTABLISHED AN ELECTRONIC BULLETIN BOARD THROUGH THE WESTERN UNION INFORMATION RETRIEVAL SERVICE. ANY TELEX OR EASYLINK SUBSCRIBER MAY ACCESS THE BULLETIN BOARD. NON TELEX/EASYLINK SUBSCRIBERS MAY CONTACT MR. TOM MACLEOD, WESTERN UNION SYSTEM AT (202) 778-0300, FOR INFORMATION ABOUT THESE SERVICES.

DEFENSE COMMUNICATIONS AGENCY ACQUISITION BULLETIN BOARD

**TELEX AND EASYLINK SUBSCRIBERS MAY ACCESS THE
SYSTEM UNDER THE "FY" CATEGORY, BY TYPING "DCABB":
DCABB CONTAINS THE FOLLOWING SUBCATEGORIES:**

**CNTRA-- A LISTING OF ALL ACTIVE, UNCLASSIFIED
CONTRACTS, UPDATED MONTHLY**

**KEYPERS: A LISTING OF KEY DCA/NCS ACQUISITION
PERSONNEL**

**FORECAS: DCA/NCS ACQUISITION FORECAST FOR THE
CURRENT FISCAL YEAR**

**HARD COPIES OF THE ABOVEMENTIONED INFORMATION MAY
BE OBTAINED BY WRITING TO THE FOLLOWING ADDRESS:**

**DCA
ATTN: H130
WASHINGTON, DC 20305-2000**

072-16-FEB 88-RC

ACQUISITION INFORMATION

INFORMATION FILE ONE - COMMERCE BUSINESS DAILY SYNOPSIS
IDENTICAL INFORMATION TO CBD
OPENING AND CLOSING DATES

INFORMATION FILE TWO - ACQUISITION FORECAST
ADVANCE PROCUREMENT INFORMATION (90-120 DAYS LEAD TIME)

PR#	TITLE	EST CBD DATE
ID#	ORGANIZATION	SYNOPSIS OF EFFORT
		MY

RESTRICTIONS (SB, 8a, F/O)
PREVIOUS CONTRACT #

INFORMATION FILE THREE - GENERAL ACQUISITION INFORMATION
GENERAL ANNOUNCEMENTS, e.g. BIDDERS CONFERENCE, CHANGES
IN KEY PERSONNEL, POLICY CHANGES
DATE AND NARRATIVE

INFORMATION FILE FOUR - LIST OF DCA CURRENT CONTRACTS
CONTRACTOR, OPR, CONTRACT #, TOTAL VALUE, AWARD DATE,
EXPIRATION DATE, # OF OPTION YEARS, EXP COMP DATE, SHORT
NARRATIVE

INFORMATION FILE FIVE - DCA KEY CONTACTS
ORGANIZATION ELEMENT, NAME, TELEPHONE #, ROLE/MISSION AREA

DCA/NCS SMALL BUSINESS

DIRECTOR, SMALL BUSINESS

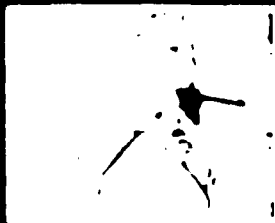
RAYMOND MARTONE
692-5358

DEPUTY DIRECTOR, SMALL BUSINESS
& ASSOCIATE DIRECTOR, SMALL
BUSINESS, HQS DCA

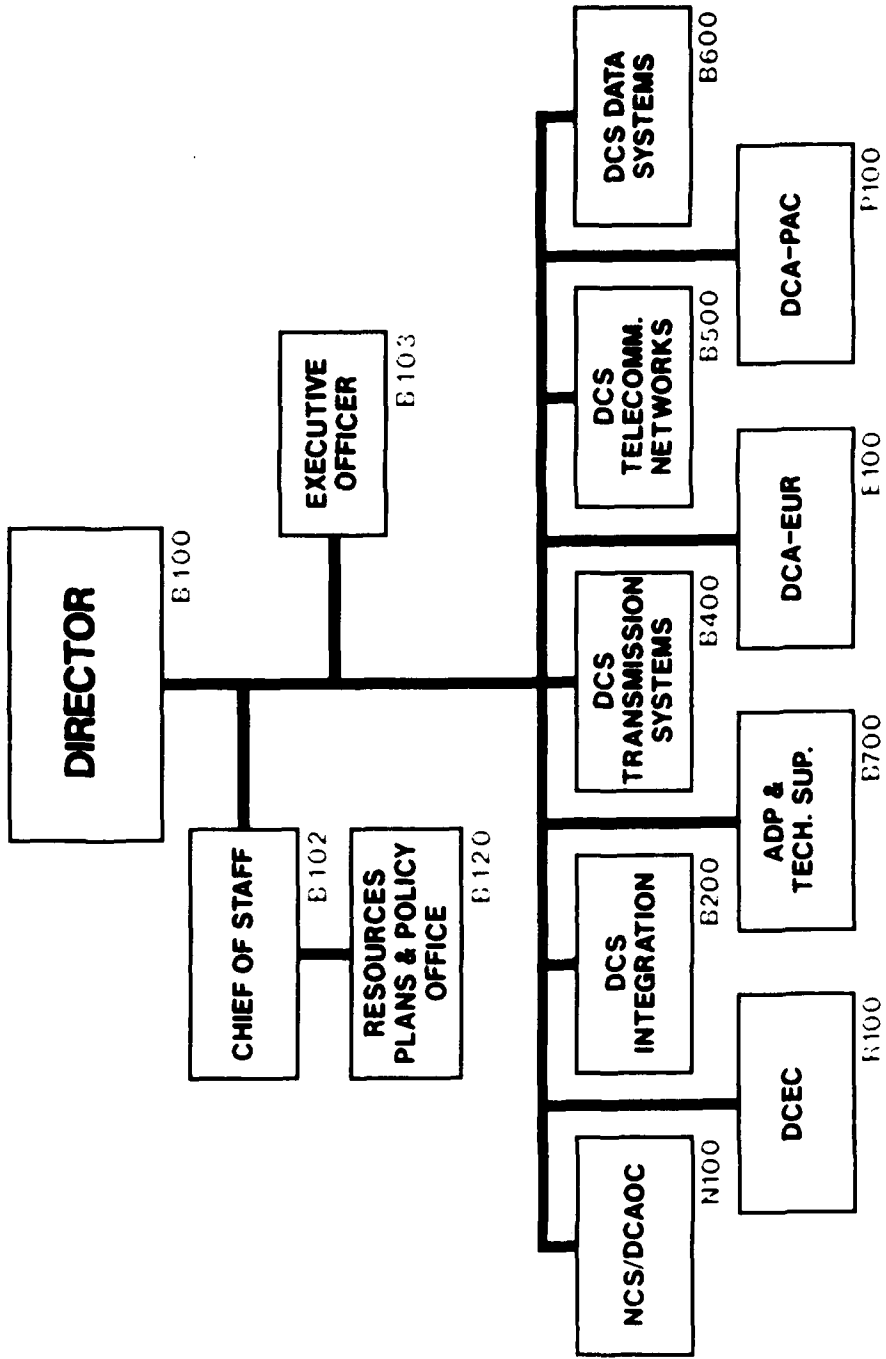
GLEN MOORE
692-5358

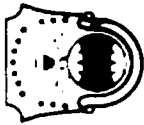
ASSOCIATE DIRECTOR, SMALL
BUSINESS, DECCO

CAPT JOE BROOKS
(618) 256-2349



DCSO Organization Chart





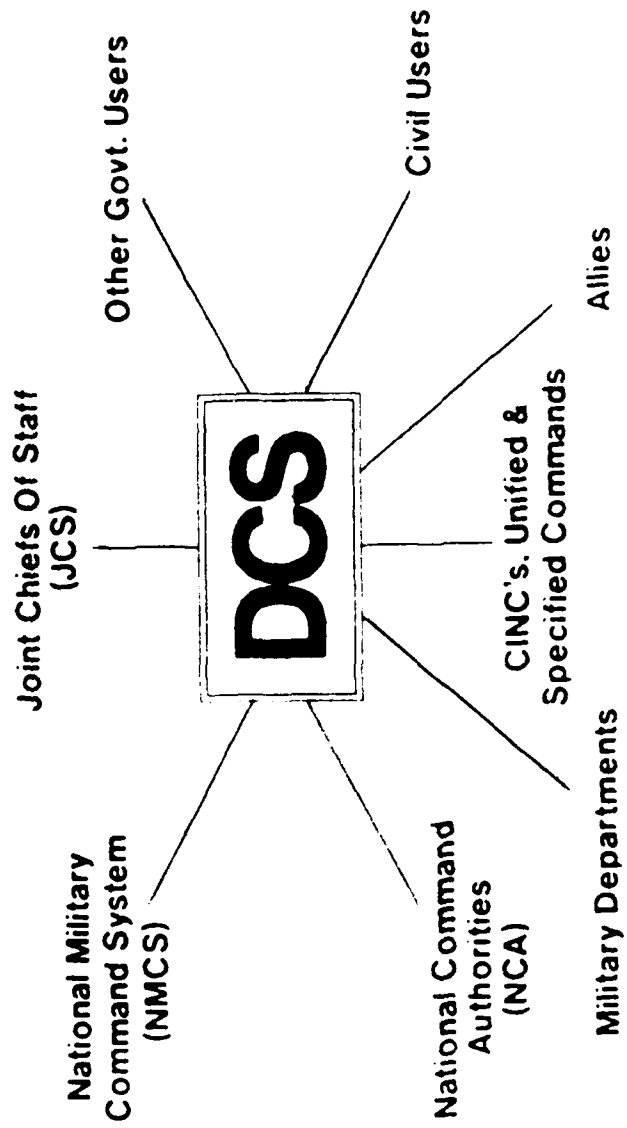
DCS MISSION

**TO PROVIDE THE LONG-HAUL, POINT-TO-POINT,
AND SWITCHED NETWORK TELECOMMUNICATIONS
NEEDED TO SATISFY THE REQUIREMENTS OF DOD
AND CERTAIN OTHER GOVERNMENTAL AGENCIES**

PEACETIME

WARTIME

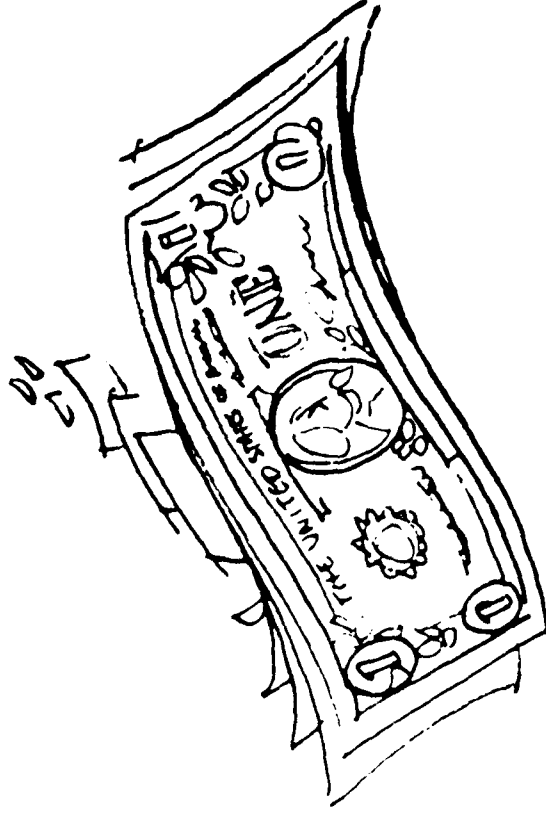
DCS Users



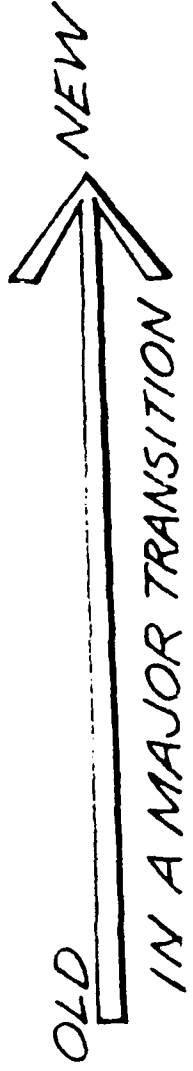
What Is The DCS?



ONE-HALF MILLION
USERS



\$12B CAPITAL
INVESTMENT



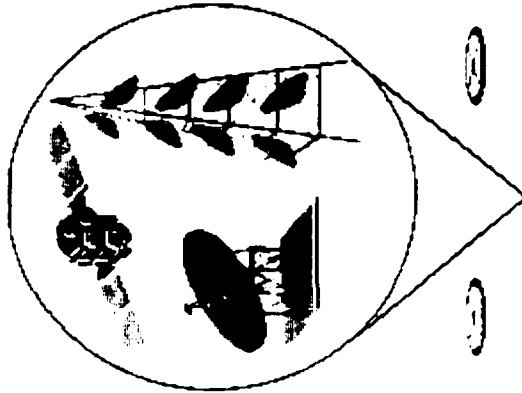
CV #87-352-6844 EO5:1

■ ■ (ON #1494) A1478.003

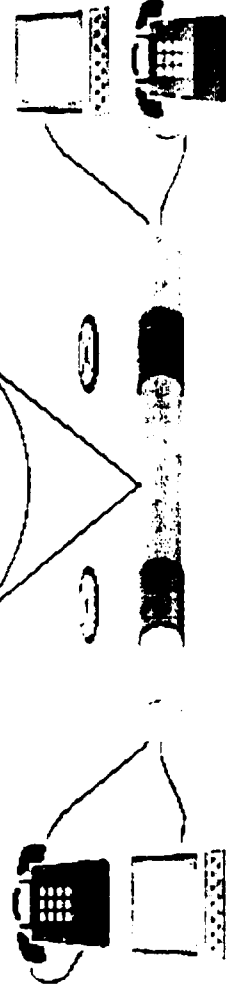


DCS: A COMMUNICATIONS PIPELINE

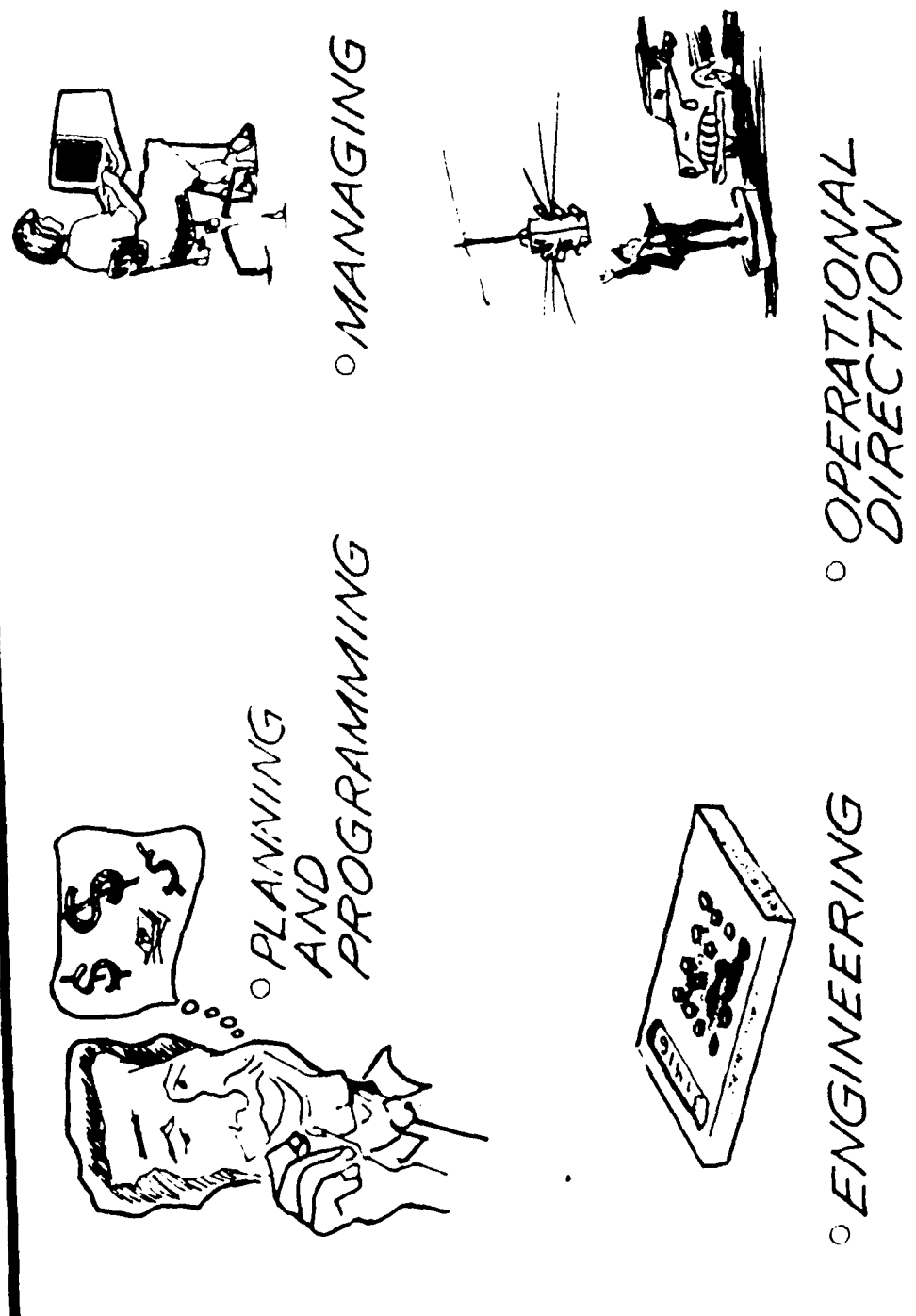
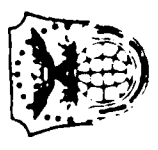
566 DCS SITES
240 VOICE SWITCHES
316 DATA SWITCHES
61 000 CIRCUITS



VOICE
MESSAGE
DATA
VIDEO



DCA's Role For The DCS



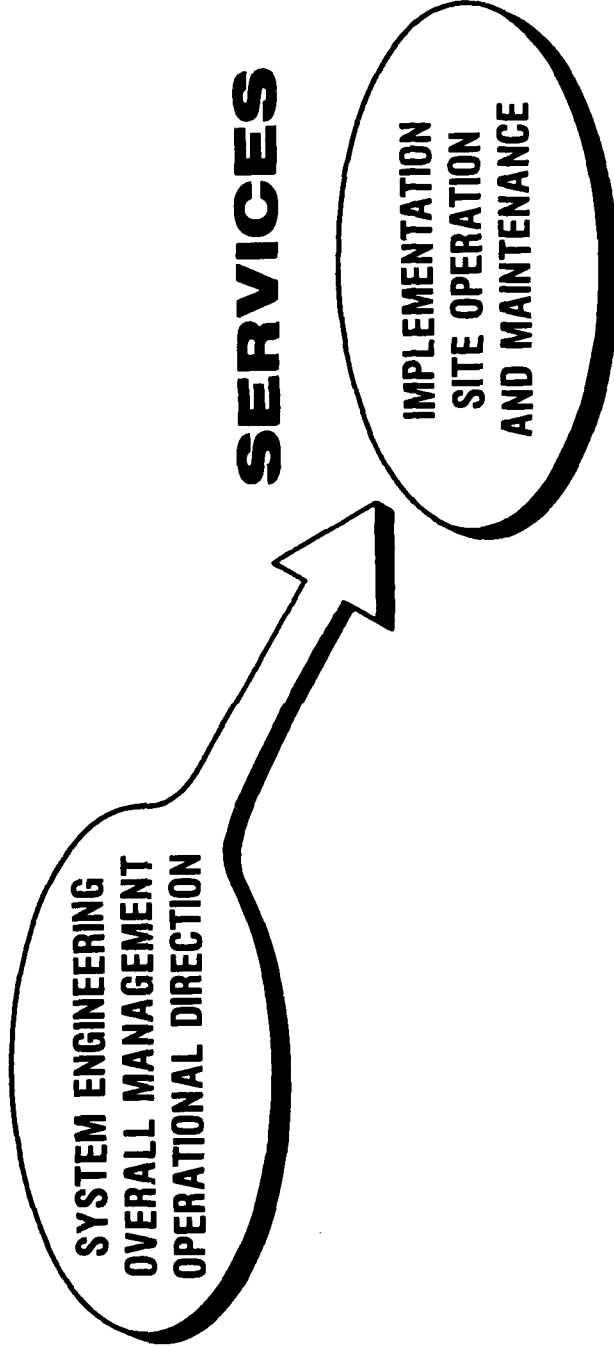
RELATIONSHIPS

DCA

SYSTEM ENGINEERING
OVERALL MANAGEMENT
OPERATIONAL DIRECTION

SERVICES

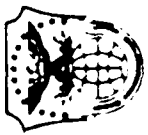
IMPLEMENTATION
SITE OPERATION
AND MAINTENANCE



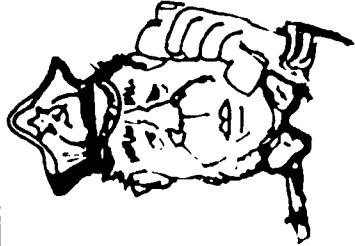
Current Operational DCS

- **Defense Switched Network (DSN)**
- **Automatic Digital Network (AUTODIN)**
- **Defense Data Network (DDN)**
- **Automatic Secure Voice Communications System (AUTOSEVOCOM)**
- **Defense Satellite Communications System (DSCS)**
- **Terrestrial Transmission**
- **System Control**

Problems With The Current DCS



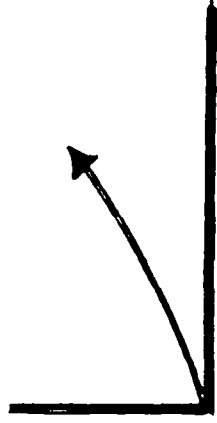
◦ AGE OF
EQUIPMENT



◦ SECURITY



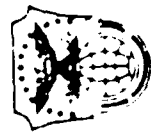
◦ SURVIVABILITY



◦ CAPACITY/
INCREASED
DEMAND



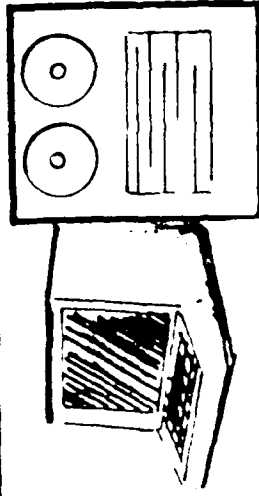
◦ NETWORK
MANAGEMENT
AND CONTROL



New Technologies



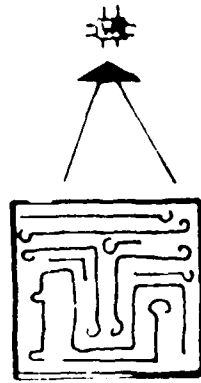
◦ DIGITIZATION



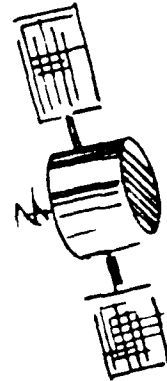
◦ COMPUTER-BASED EQUIPMENT



◦ FIBER OPTICS

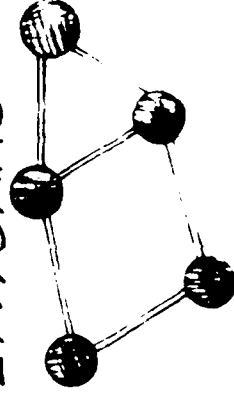


◦ LARGE SCALE INTEGRATION



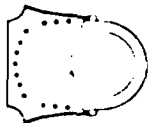
◦ SATELLITES

◦ DISTRIBUTED NETWORKS



Planned Changes To Current System

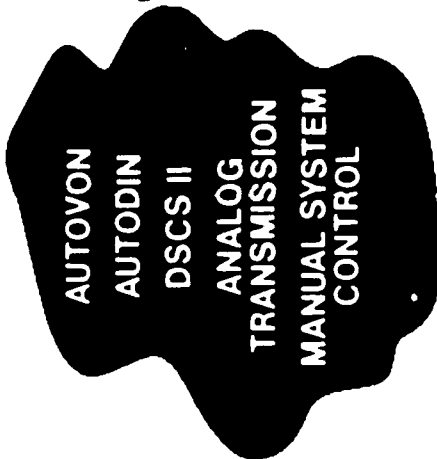
- **Defense Switched Network (DSN)**
- **Defense Data Network (DDN)**
- **Secure Voice System (SVS)**
- **Defense Satellite Communications System (DSCS)**
- **Terrestrial Transmission**
- **System Control**



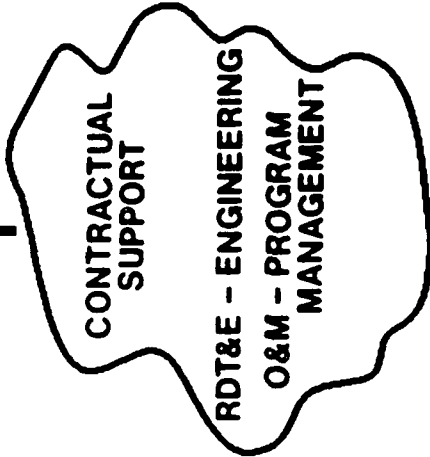
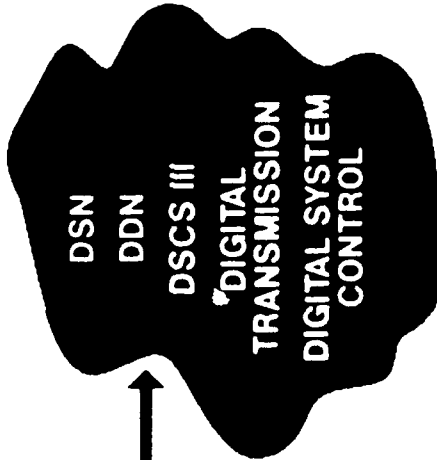
DCS TRANSITION

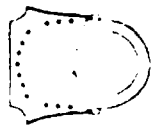
DCS IN CRITICAL AND RAPID TRANSITION PHASE AS MAJOR
NEW PROGRAMS REPLACE AGED DCS NETWORKS

OLD DCS

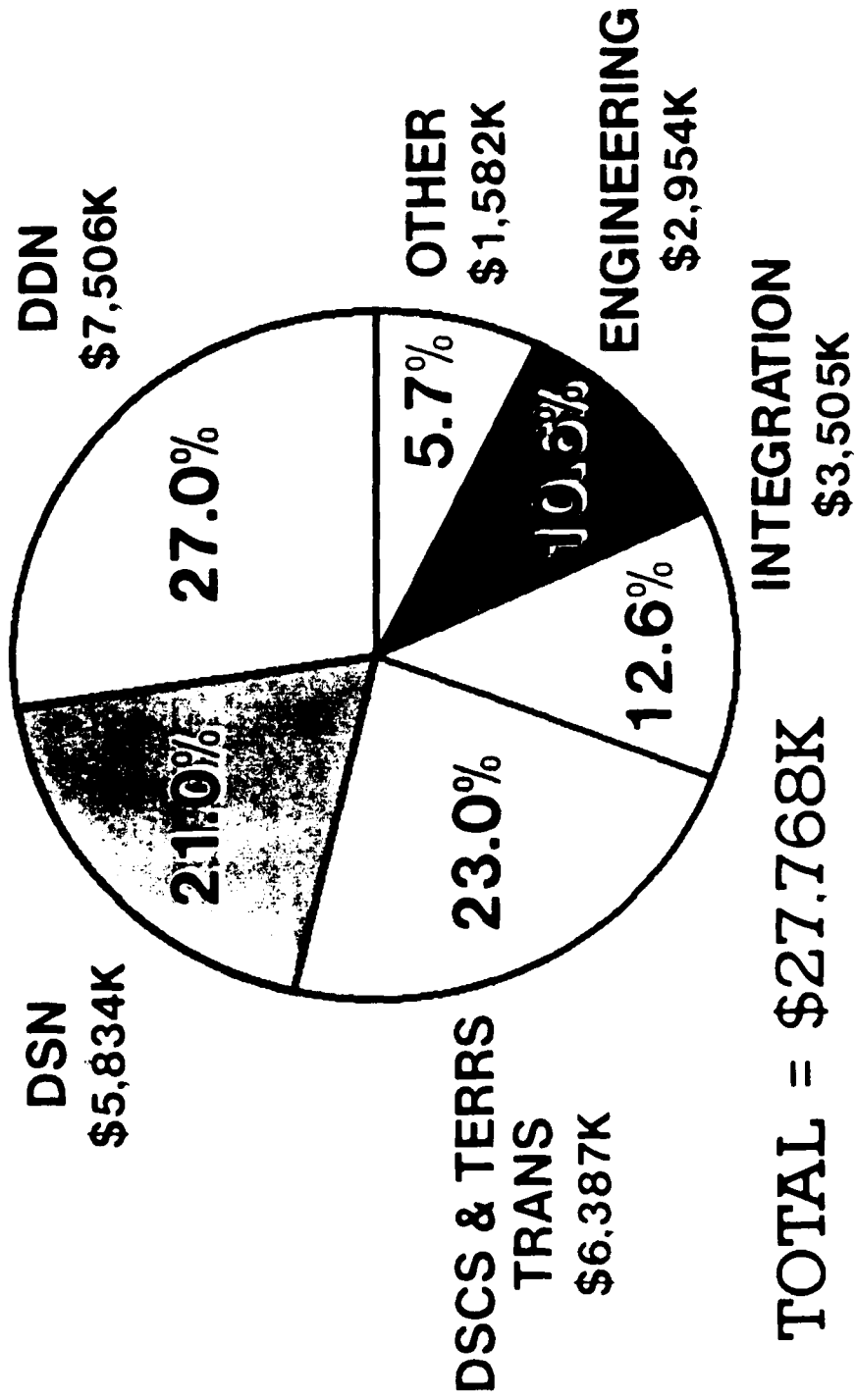


NEW DCS

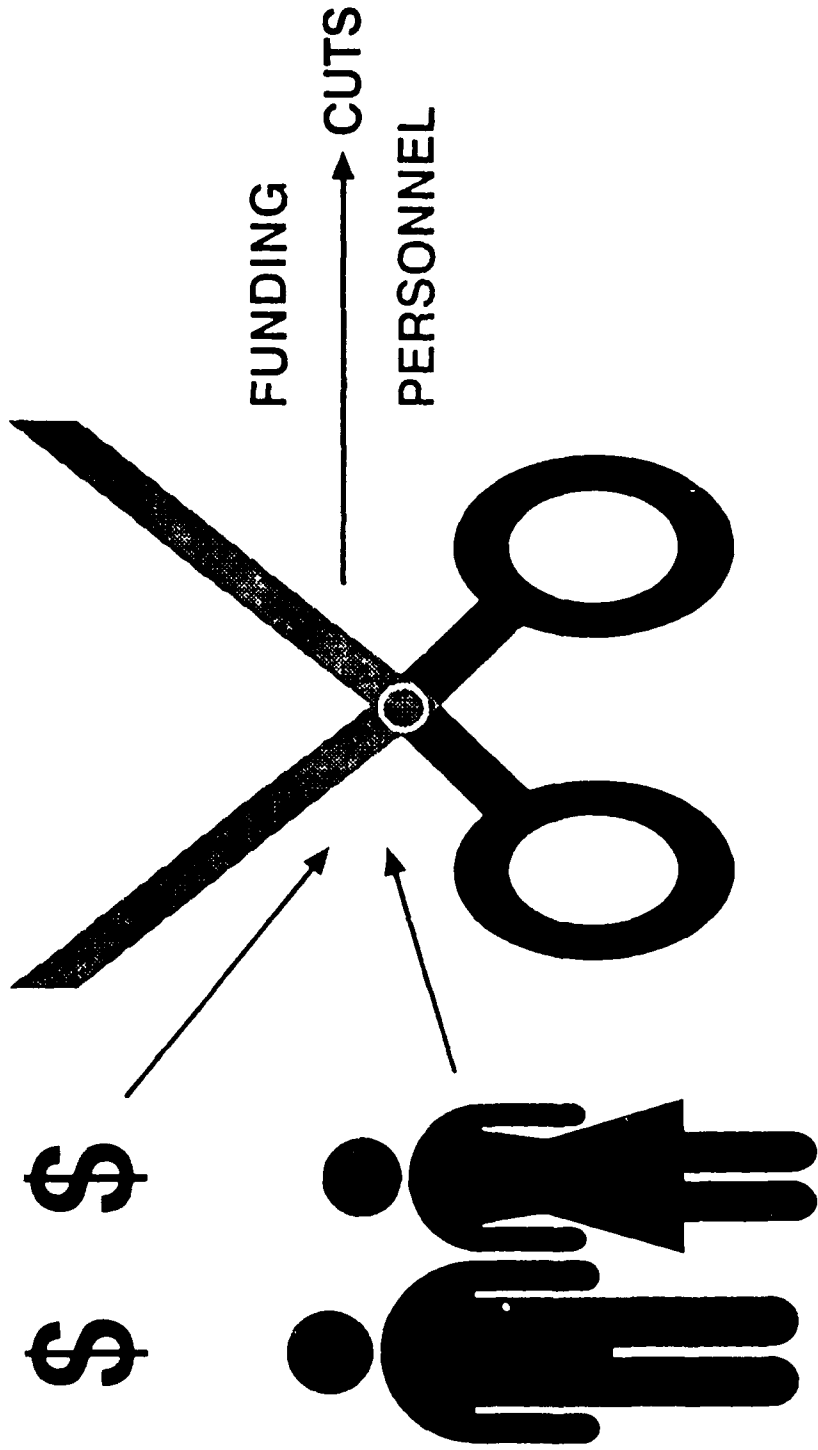


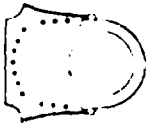


DCSO FY88 CONTRACTUAL EFFORTS (O&M AND RDT&E)



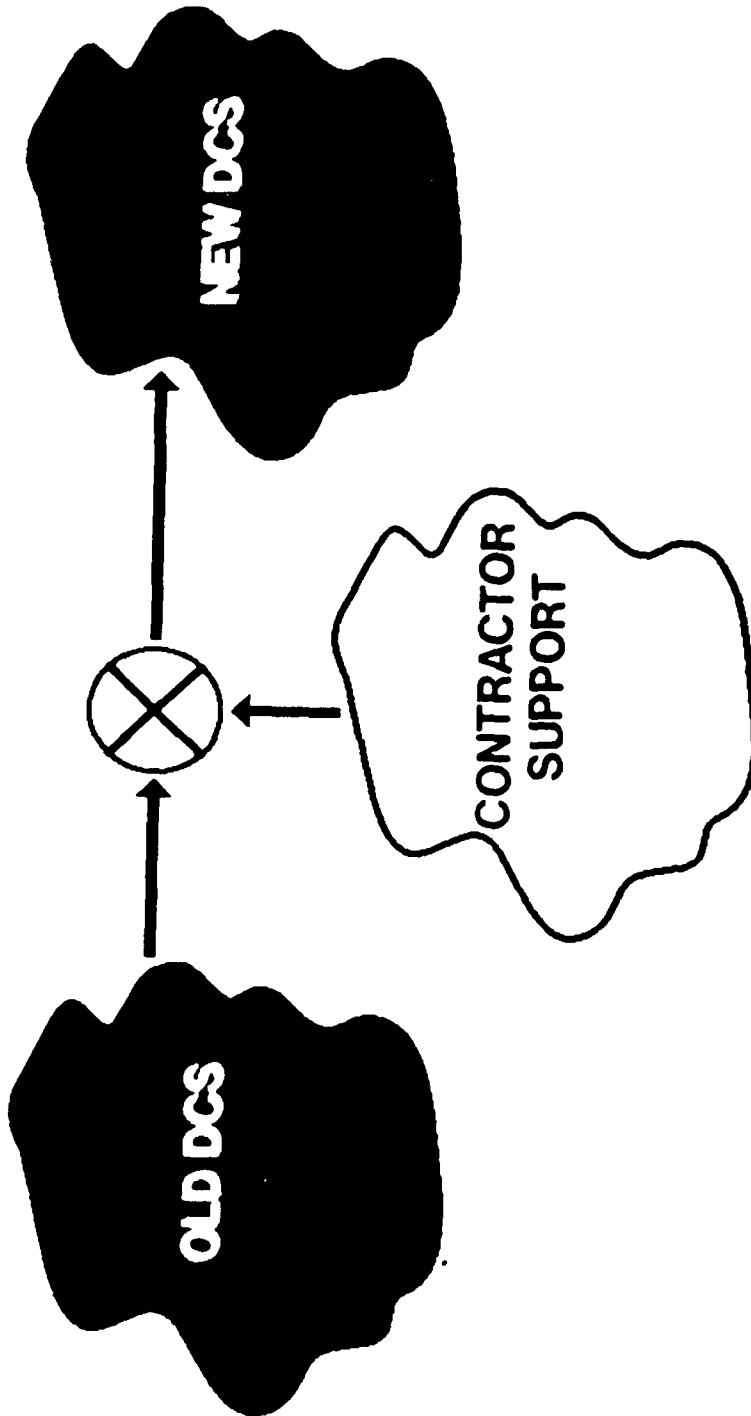
DCSO OPERATING ENVIRONMENT

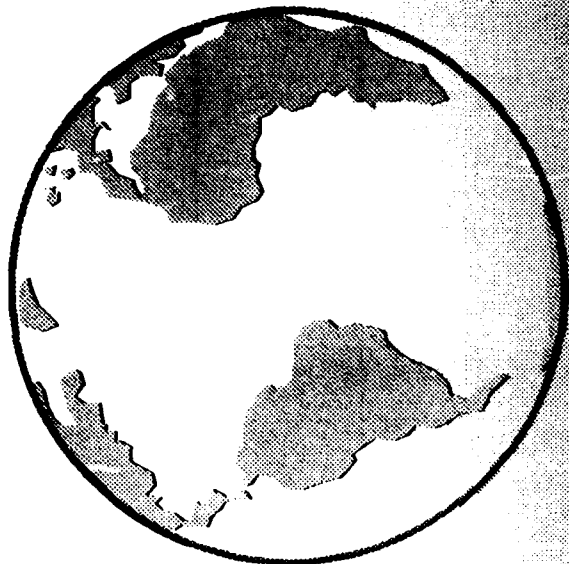




SUMMARY

CONTRACTOR SUPPORT IS CRITICAL TO THE DCS AS IT TRANSITIONS FROM AN OLD ANALOG, MANUAL SYSTEM TO A NEW DIGITAL, AUTOMATED SYSTEM





JOINT DATA SYSTEMS SUPPORT CENTER

#058-CV

OUTLINE

- **ORGANIZATIONAL OVERVIEW**

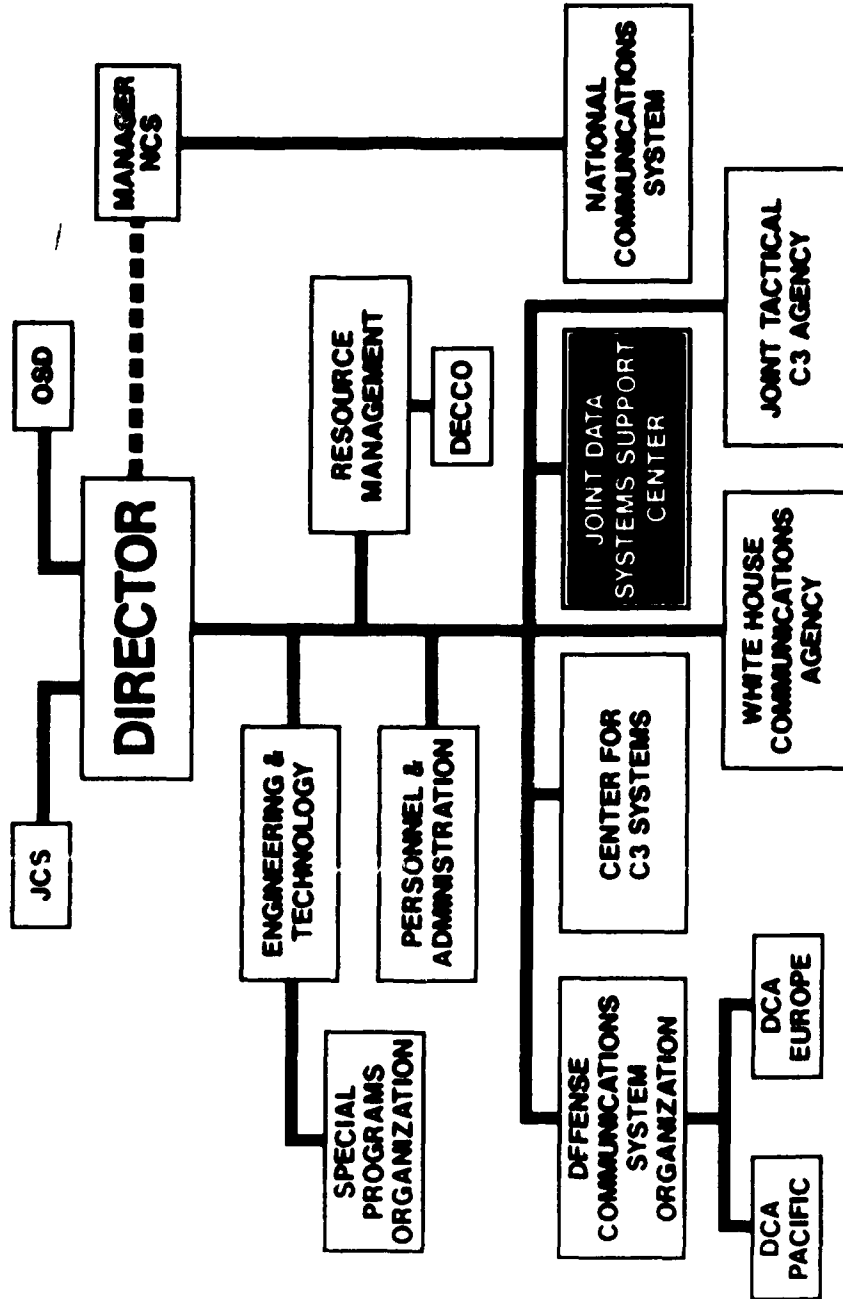
- **RESOURCES**

- **DEFINITIONS**

- **JDSSC PROGRAMS**

- **SUMMARY**

DCA ORGANIZATION



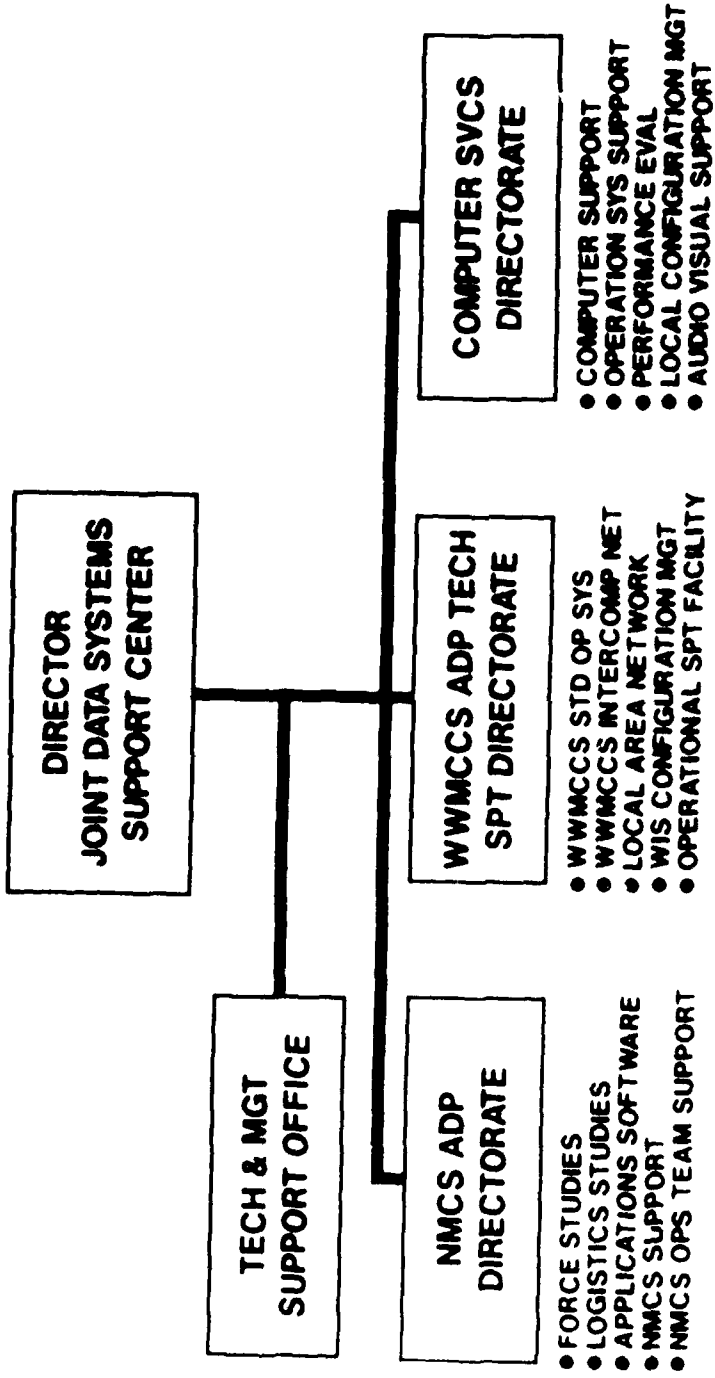
DCA MISSION

- PLAN, MANAGE AND SYSTEM ENGINEER THE DCS
- JDSSC▶ ● PROVIDE ADP AND TECHNICAL SUPPORT TO OJCS AND OSD
- PROVIDE SYSTEMS ENGINEERING SUPPORT FOR THE NATIONAL MILITARY COMMAND SYSTEM AND THE STRATEGIC FORCES
- JDSSC▶ ● PROVIDE ENGINEERING AND TECHNICAL SUPPORT TO THE WWMCCS
- PROVIDE SYSTEMS ARCHITECTURE FOR CURRENT AND FUTURE MILSATCOM
- PROCURE LEASED COMMUNICATIONS FOR DoD AND OTHER GOVERNMENT AGENCIES
- ENSURE INTEROPERABILITY OF TACTICAL COMMAND, CONTROL, AND COMMUNICATION SYSTEMS FOR JOINT AND COMBINED OPERATIONS

JDSSC MISSION

- **PROVIDE CENTRALIZED TECHNICAL SUPPORT OF OPERATING SYSTEMS AND APPLICATIONS SYSTEMS FOR WWMCCS ADP, WIN AND OTHER ADP SYSTEMS TO OJCS, UNIFIED AND SPECIFIED COMMANDS AND OSD**
- **PROVIDE ANALYTICAL AND ADP OPERATIONAL SUPPORT TO OJCS, UNIFIED AND SPECIFIED COMMANDS AND OSD**
- **PROVIDE ADP SUPPORT AS SPECIFICALLY DIRECTED BY THE DIRECTOR, JOINT STAFF, TO THE WIS--JOINT PROGRAM MANAGER AND OTHER USERS**

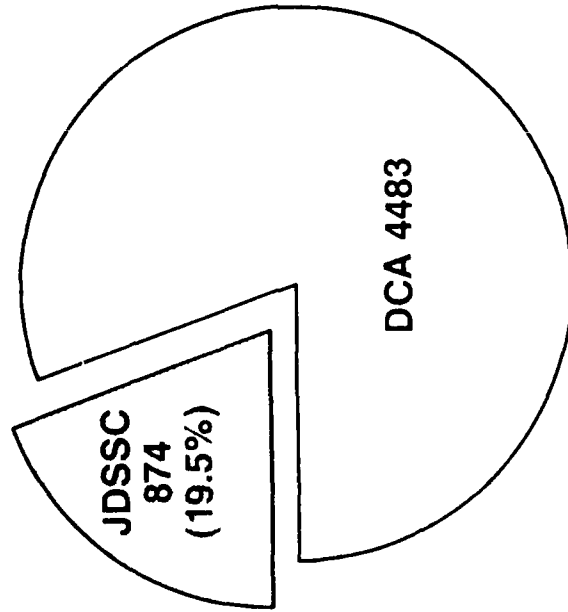
JDSSC ORGANIZATION



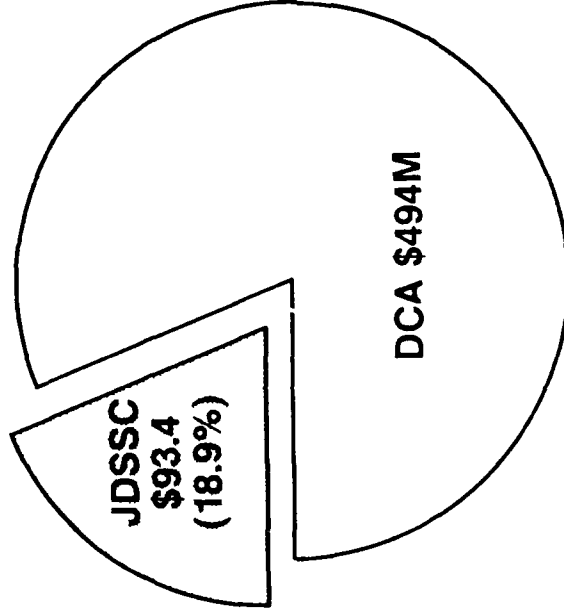
HEADQUARTERS BUILDING
RESTON
PENTAGON
WASHINGTON NAVY YARD
ANMCC

DCA/JDSSC RESOURCE SUMMARY (FY88)

PEOPLE



DOLLAR\$



874 = 456 CIVILIANS, 258 ENLISTED, 160 OFFICERS
CONTRACTS = 42.4M, PROCUREMENT = 8M, CIVILIAN PAY = 19.3M
OPERATING = 24M

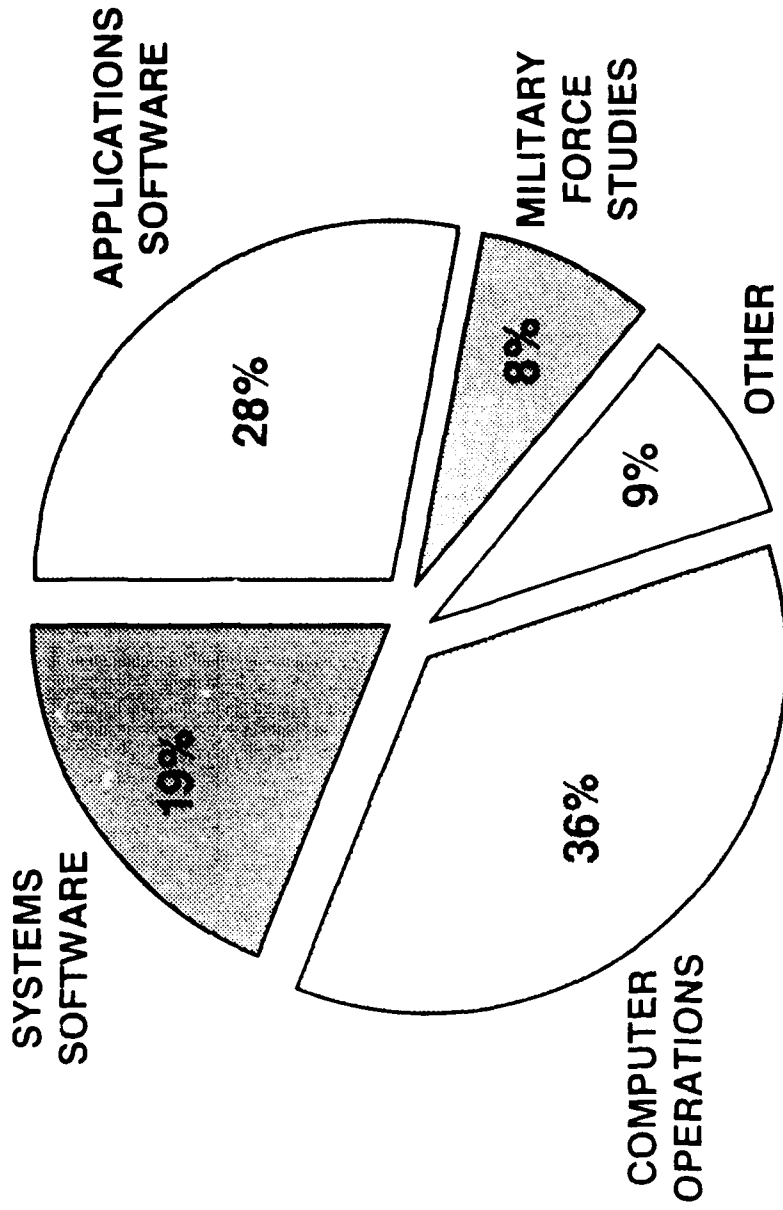
#058-CV

RESOURCE SUMMARY

IN-HOUSE MANPOWER (FY88)

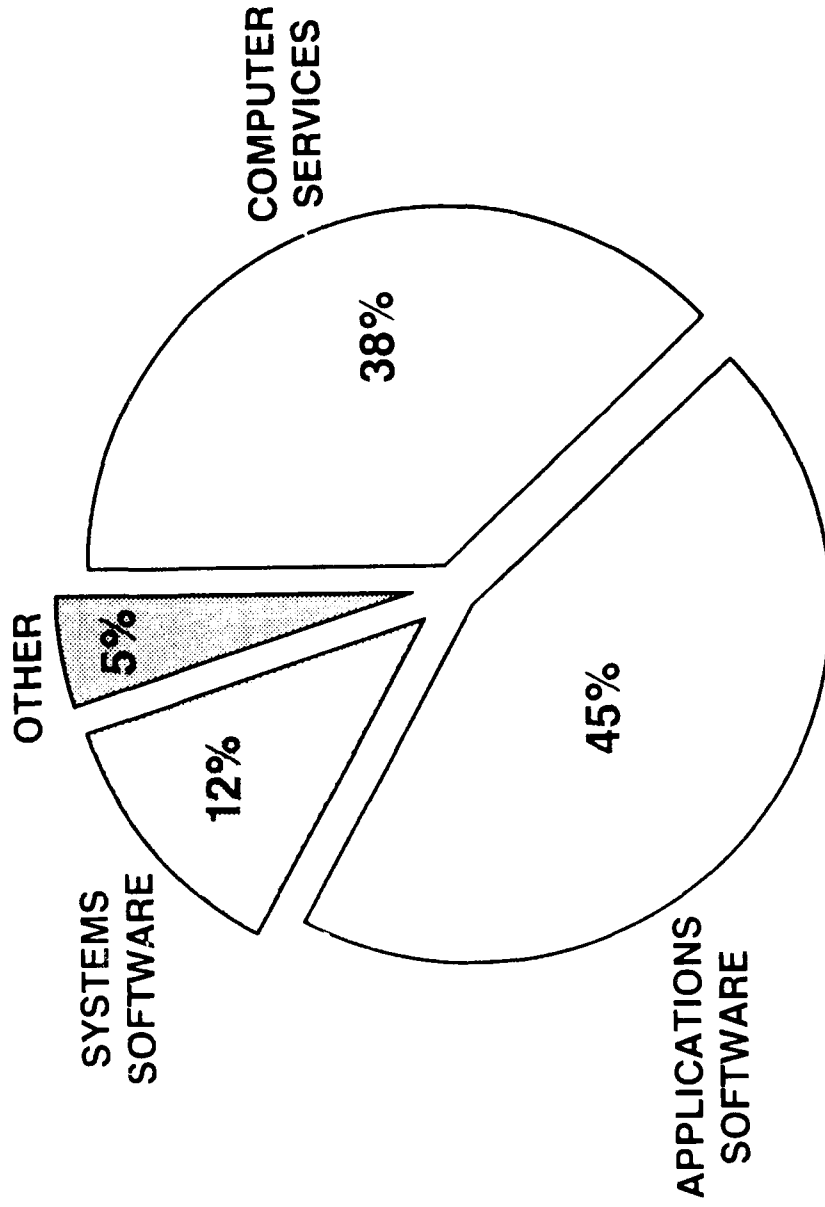
	<u>DIRECTOR</u>	<u>NMCS ADP</u>	<u>WWMCCS ADP</u>	<u>COMPUTER SERVICES</u>	<u>TOTAL</u>
OFFICERS	7	112	23	18	160
ENLISTED	3	34	4	217	258
TOTAL MILITARY	10	146	27	235	418
CIVILIAN	36	249	77	94	456
	<u>46</u>	<u>395</u>	<u>104</u>	<u>329</u>	<u>874</u>

RESOURCE ALLOCATION



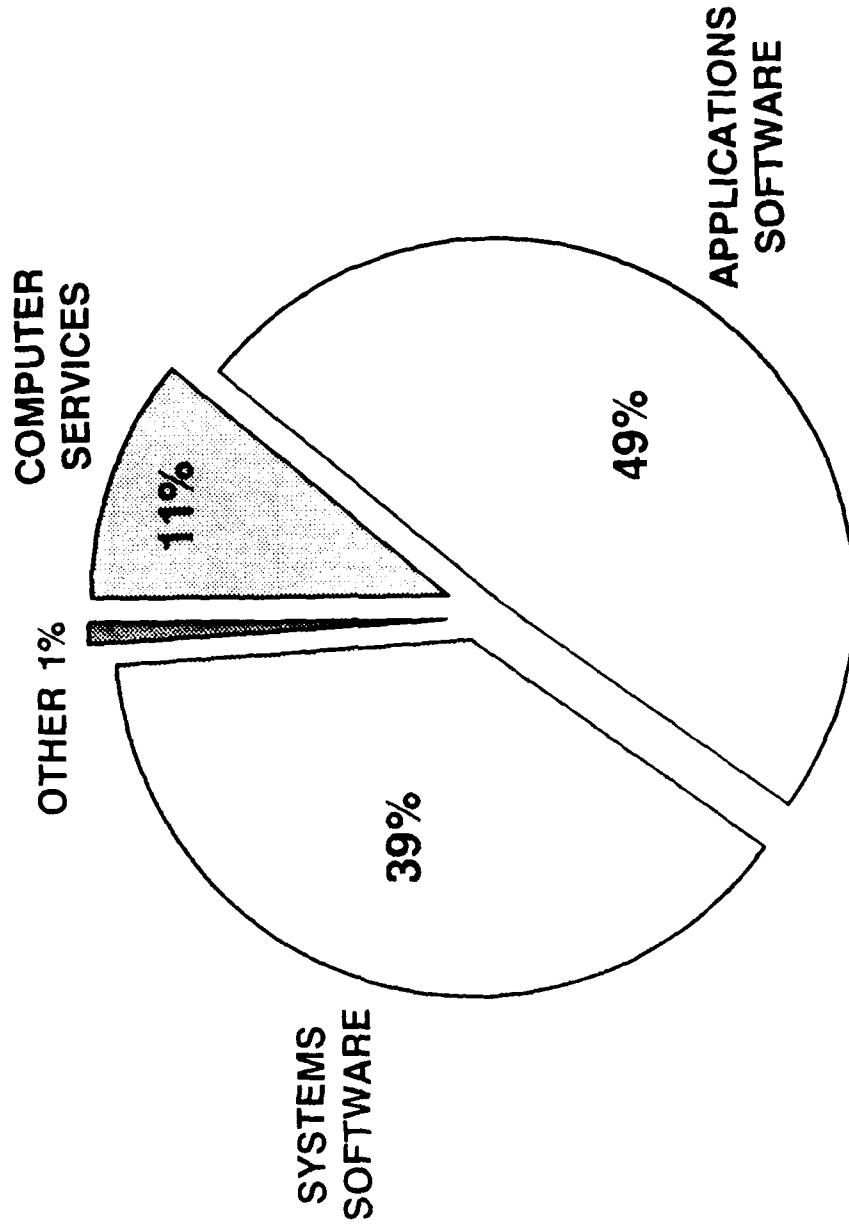
#058-CV

IN-HOUSE MANPOWER ALLOCATION



#058-CV

CONTRACT RESOURCE ALLOCATION

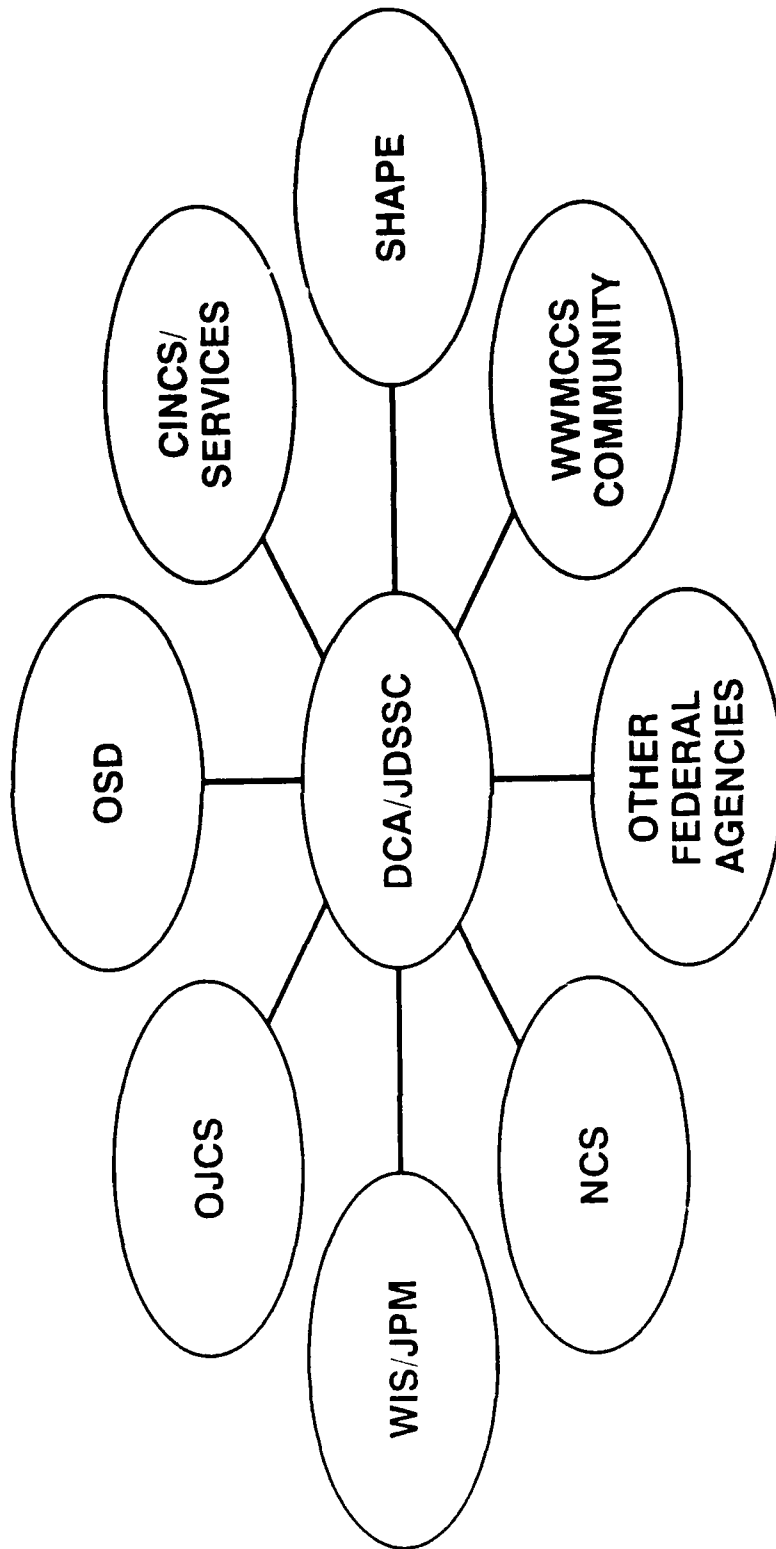


#058-CV

CONTRACTORS

UNISYS _____ GENERAL SUPPORT
COMPUTER SCIENCES CORPORATION _____ GENERAL SUPPORT
HONEYWELL _____ GENERAL SUPPORT
POTOMAC SYSTEMS ENGINEERING _____ OFFICE AUTOMATION
SYSTEMS RESEARCH & APPLICATIONS
CORPORATION _____
MITRE _____ EXERCISE SUPPORT
SYSTEMS APPLICATIONS INTERNATIONAL
CORPORATION _____ WIS TRANSITION SUPPORT
SYNERGY _____ STRATEGIC STUDIES
NAVAL POSTGRADUATE SCHOOL _____ LOGISTICS SYSTEM DEVELOPMENT
NAVAL REGIONAL DATA AUTOMATION CENTER _____ LONG RANGE FORECASTING
7 COMM GROUP (USAF) _____ RISOP/SIOP SUPPORT
BUREAU OF CENSUS _____ MULTICS
DEPARTMENT OF STATE _____ POPULATION/INDUSTRIAL NATIONS
DEPARTMENT OF TRANSPORTATION _____ ASSESSMENT DATA
DEFENSE NUCLEAR AGENCY _____ ASSESSMENT DATA
ETC. _____ VERIFICATION & VALIDATION
•
•
•

SUPPORTED ORGANIZATIONS



#058-CV

WWMCCS DEFINITION

**THE WWMCCS IS THE WORLDWIDE COMMAND
AND CONTROL SYSTEM THAT PROVIDES THE
MEANS FOR OPERATIONAL DIRECTION AND
TECHNICAL ADMINISTRATION SUPPORT
INVOLVED IN THE FUNCTION OF COMMAND
AND CONTROL OF U.S. MILITARY FORCES**

DoD 5100.30

WWMCCS ELEMENTS

- **WARNING SYSTEMS**
- **COMMUNICATIONS**
- **COMMAND FACILITIES**
- **EXECUTIVE AIDS**
- **DATA COLLECTION & PROCESSING**

WWMCCS PRIMARY MISSION

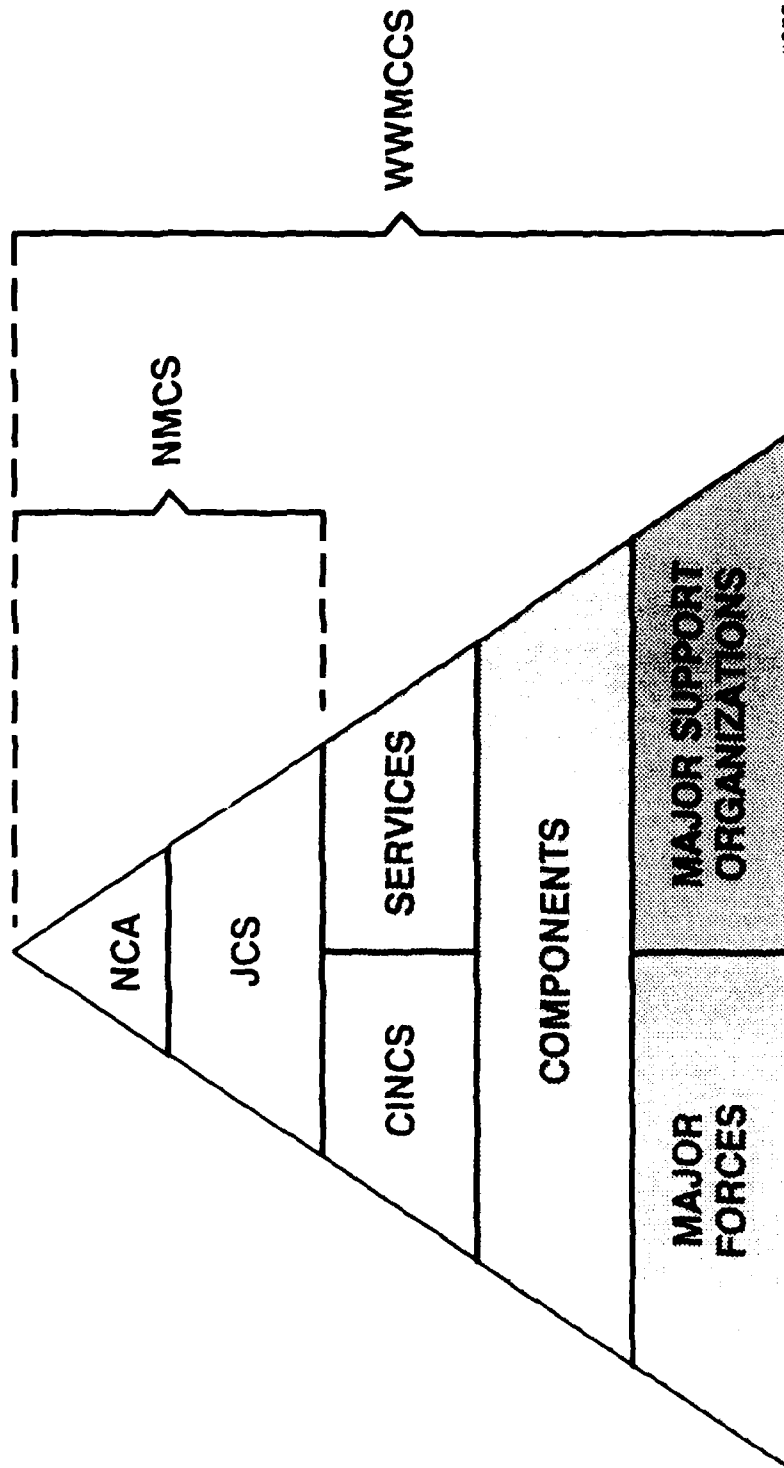
SUPPORT OF NATIONAL COMMAND AUTHORITIES FOR:

- **RECEIPT OF WARNING AND INTELLIGENCE
UPON WHICH ACCURATE AND TIMELY DECISIONS
CAN BE MADE**
- **APPLICATION OF RESOURCES OF THE MILITARY
DEPARTMENTS**
- **ASSIGNMENT OF MISSIONS AND PROVISION OF
DIRECTION TO THE UNIFIED AND SPECIFIED
COMMANDS**

WWMCCS SECONDARY MISSION

- **SUPPORT COMMAND AND CONTROL SYSTEMS OF THE UNIFIED AND SPECIFIED COMMANDS**
- **SUPPORT WWMCCS RELATED MANAGEMENT INFORMATION SYSTEMS OF OTHER DoD COMPONENTS**

**PRIORITY COMPONENT OF WWMCCS
NATIONAL MILITARY COMMAND SYSTEM
(NMCS)**



#058-CV

NATIONAL MILITARY COMMAND SYSTEM DEFINITION

THE NMCS IS THE PRIORITY COMPONENT OF THE WWMCCS DESIGNED TO SUPPORT THE NATIONAL COMMAND AUTHORITIES AND THE JOINT CHIEFS OF STAFF. THE NMCS CONSISTS OF THE FACILITIES, DATA PROCESSING SYSTEMS AND NETWORKS, DISPLAY SYSTEMS, AND MESSAGE PREPARATION, VOICE DATA, AND COMMUNICATIONS SYSTEMS WHICH PROVIDE THE REQUIRED SUPPORT.

WWMCCS ADP DEFINITION

**WWMCCS ADP CONSISTS OF STANDARD
HARDWARE, SOFTWARE AND PROCEDURES.
IT INTERFACES WITH OTHER WWMCCS
ELEMENTS, AND PROVIDES THE BULK OF
DATA PROCESSING AND TELECOMMUNICATIONS
FACILITIES NECESSARY TO SUPPORT THE
INFORMATION PROCESSING REQUIREMENTS
OF THE NATIONAL COMMAND AUTHORITIES.**

WWMCCS ADP OVERALL

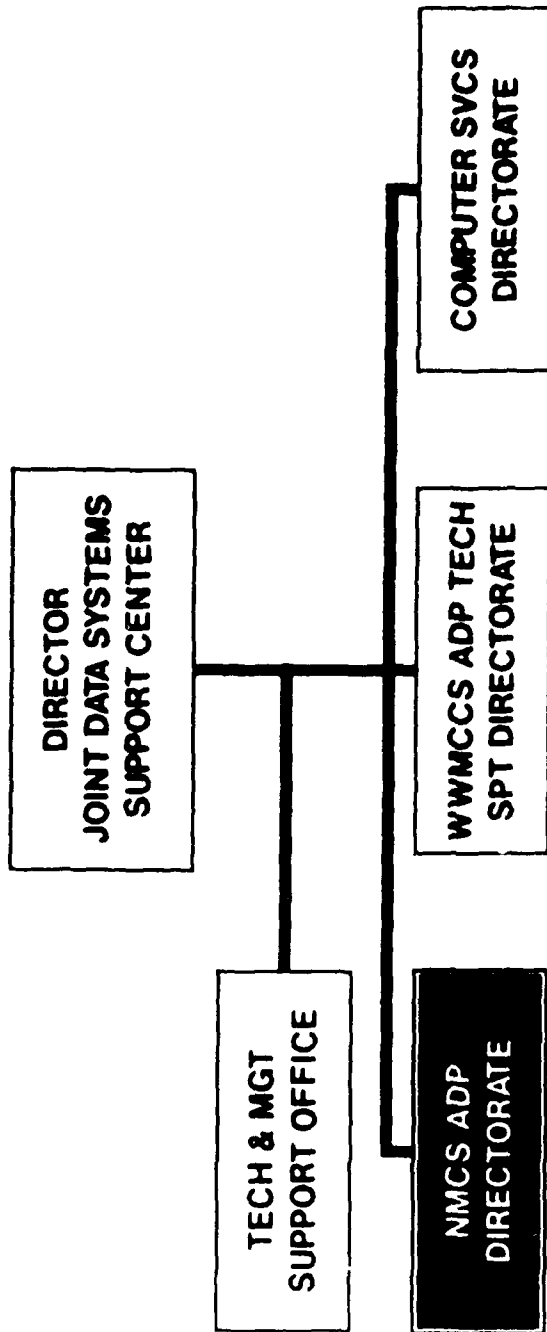
- **45 H6000 SITES WORLDWIDE**
- **113 H6000 COMPUTERS**
- **87 LEVEL 6 COMPUTERS**
- **3400 PEOPLE**
- **\$200 MILLION PER YEAR**

058-22-FEB 88-RC

WWMCCS INFORMATION SYSTEM (WIS) DEFINITION

THE WWMCCS INFORMATION SYSTEM PROGRAM PROVIDES AN IMPROVED COMMAND AND CONTROL CAPABILITY FOR USE IN NATIONAL SECURITY DECISION-MAKING, FORCE PREPARATION AND PLANNING, AND EXECUTION OF OPERATION PLANS, BY MODERNIZING THE WWMCCS ADP SYSTEM PRIMARILY THROUGH THE USE OF COMMERCIAL OFF-THE-SHELF HARDWARE AND SOFTWARE.

JDSSC ORGANIZATION

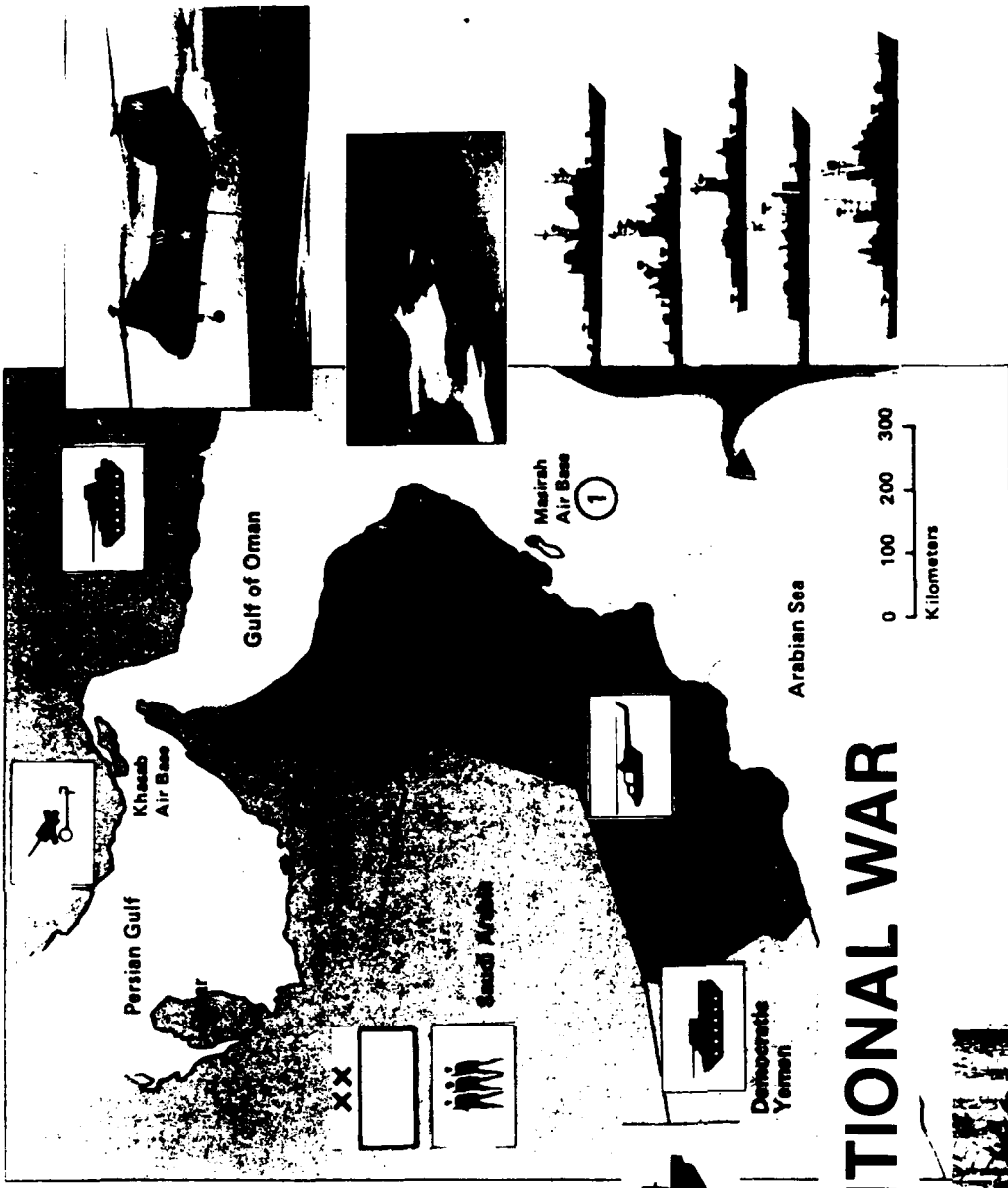


NMCS ADP DIRECTORATE MAJOR FUNCTIONS

- **DEVELOP AND MAINTAIN ADP COMMAND AND CONTROL SYSTEMS FOR THE OJCS AND WWMCCS COMMUNITY**
- **PROVIDE TECHNICAL AND ADP SUPPORT FOR WAR GAMING, MOBILITY ANALYSES, STRATEGIC FORCE ANALYSES, AND GENERAL PURPOSE FORCE ANALYSES**
- **MAINTAIN FORCE AND RESOURCE DATA FILES**
- **CONDUCT VULNERABILITY ANALYSIS AND DAMAGE ASSESSMENT STUDIES**
- **PROVIDE TRANSITION SUPPORT TO WIS AND IMPROVED NMCS CAPABILITIES**
- **PROVIDE CRISIS/EXERCISE AND EVALUATION SUPPORT**

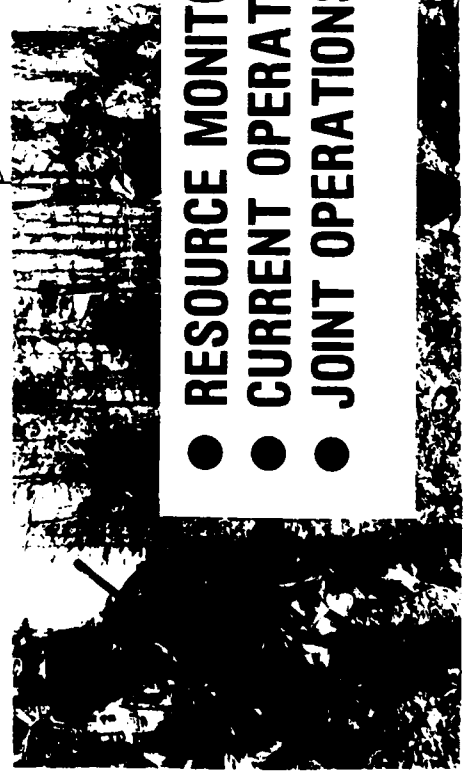
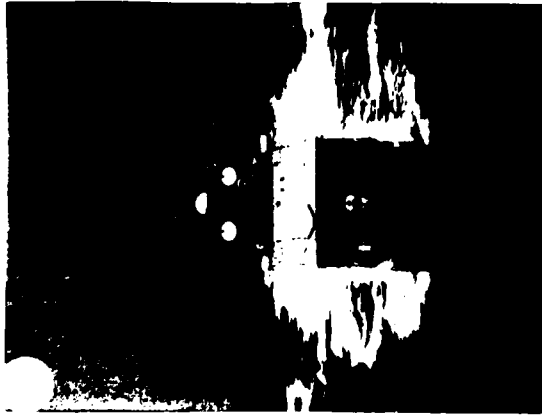
NMCS ADP DIRECTORATE SUPPORT AREAS

- **CONVENTIONAL WAR**
- **STRATEGIC AND GENERAL WAR**
- **STUDIES AND WARGAMING**
- **LOGISTICS**
- **DATA AND INFORMATION SYSTEMS**
- **WWMCCS STANDARD APPLICATIONS**
- **EXERCISES**



CONVENTIONAL WAR

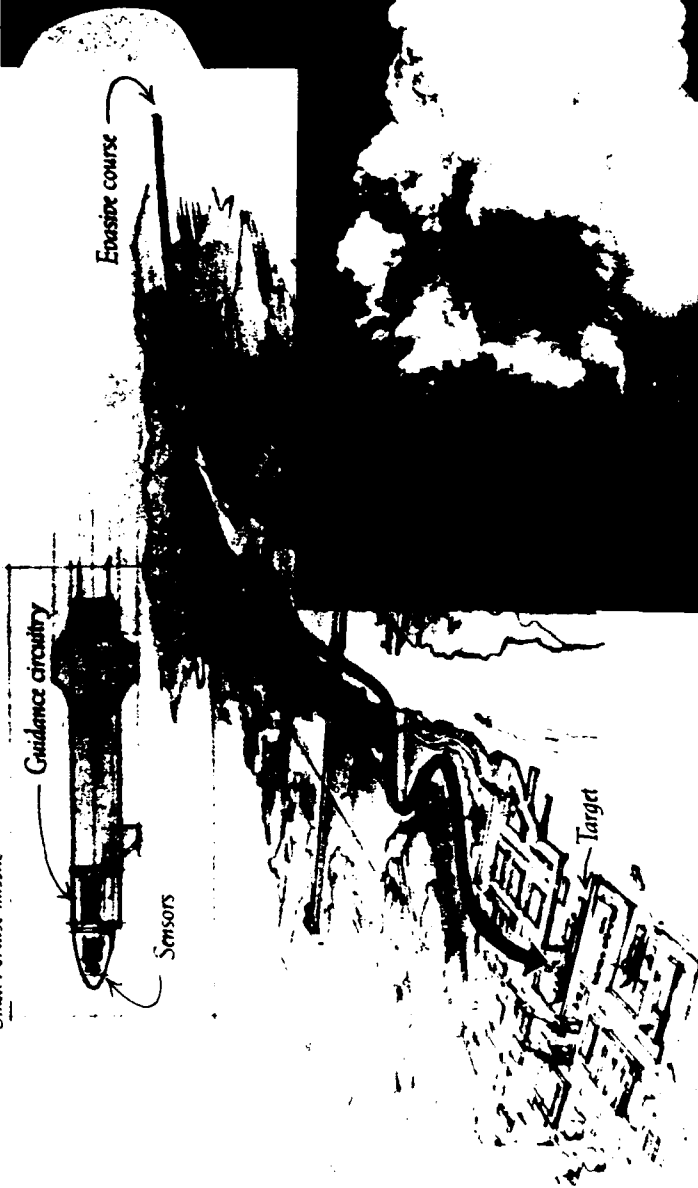
- RESOURCE MONITORING SYSTEM
- CURRENT OPERATIONS PLANNING SYSTEM
- JOINT OPERATIONS PLANNING AND EXECUTION SYSTEM





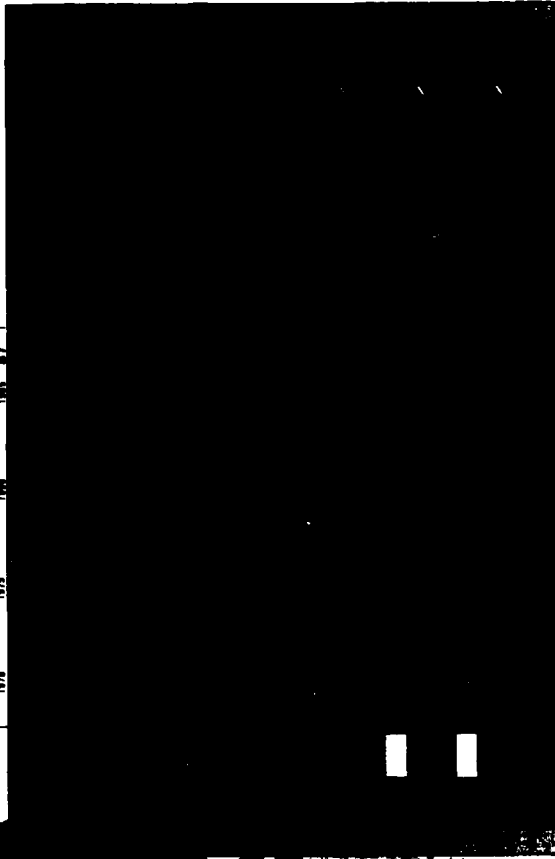
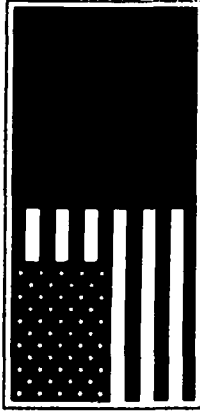
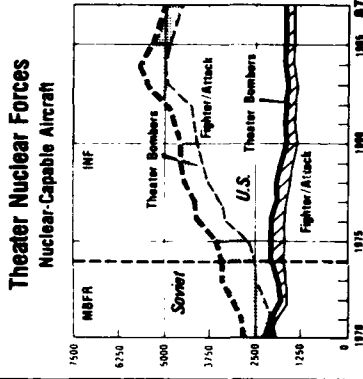
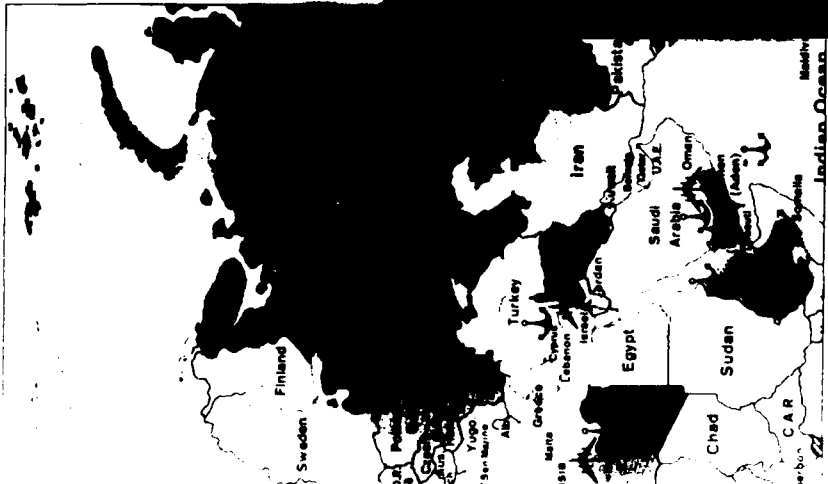
STRATEGIC & GENERAL WAR

Smart cruise missile



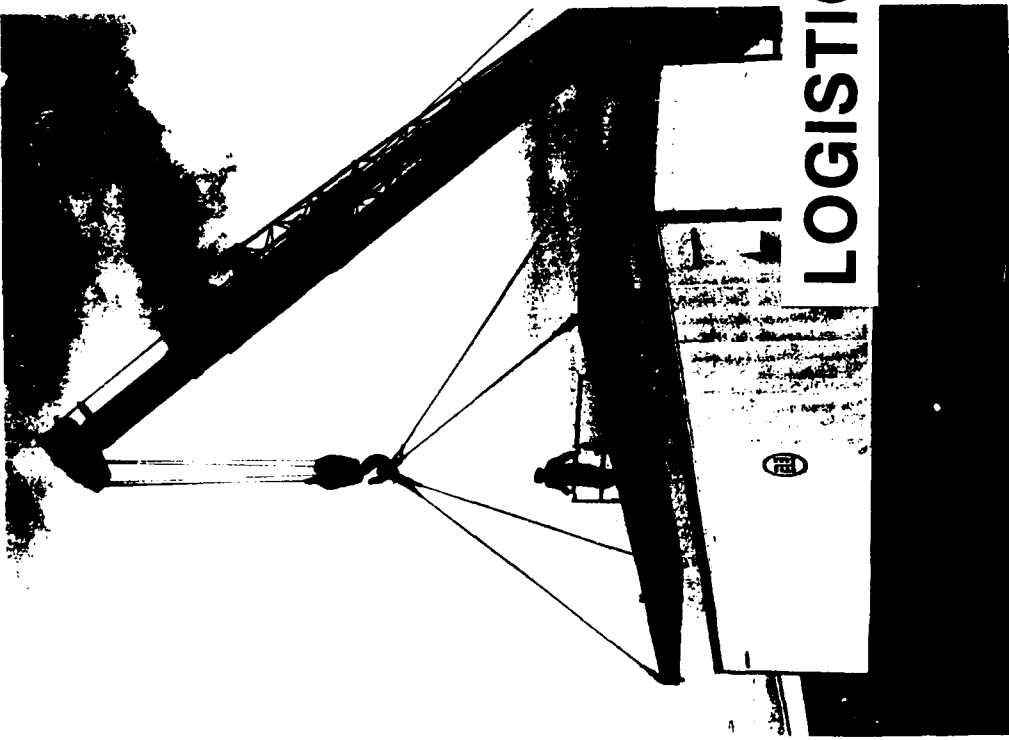
- NUCLEAR PLANNING AND EXECUTION SYSTEM
- THEATER MISSION PLANNING SYSTEM
- INTEGRATED TACTICAL WARNING AND ASSESSMENT

STUDIES AND WARGAMING



● SIOP/RISOP WAR GAMING

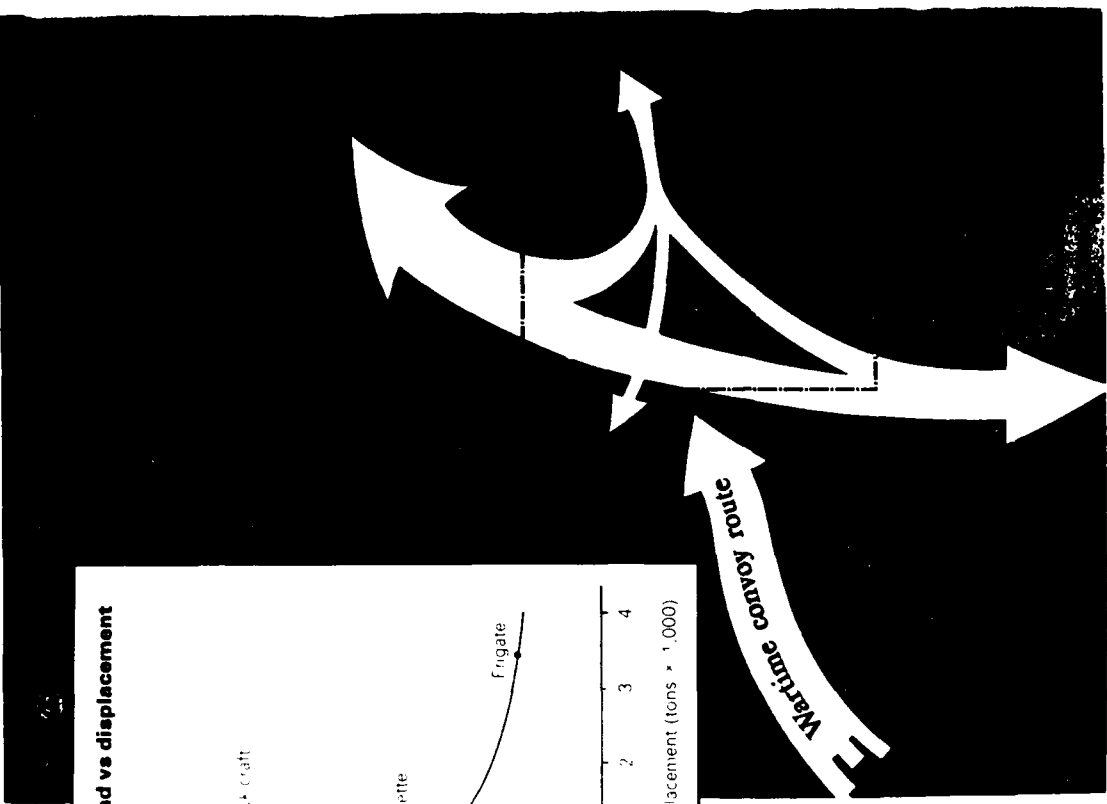
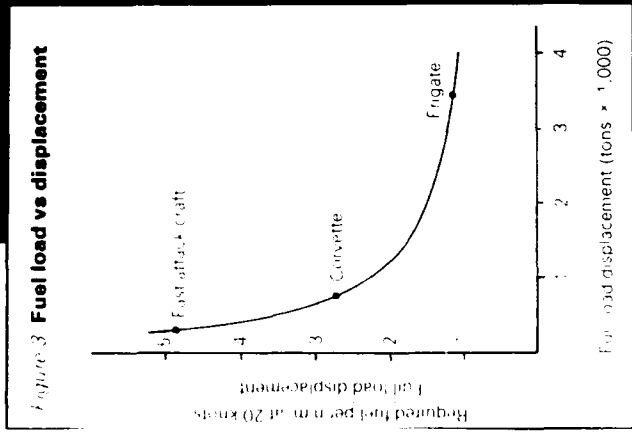
● ARMS NEGOTIATIONS



LOGISTICS



- NATO REINFORCEMENT PLANNING & EXECUTION
- LOGISTICS READINESS CENTER
- SUSTAINABILITY OF FORCES

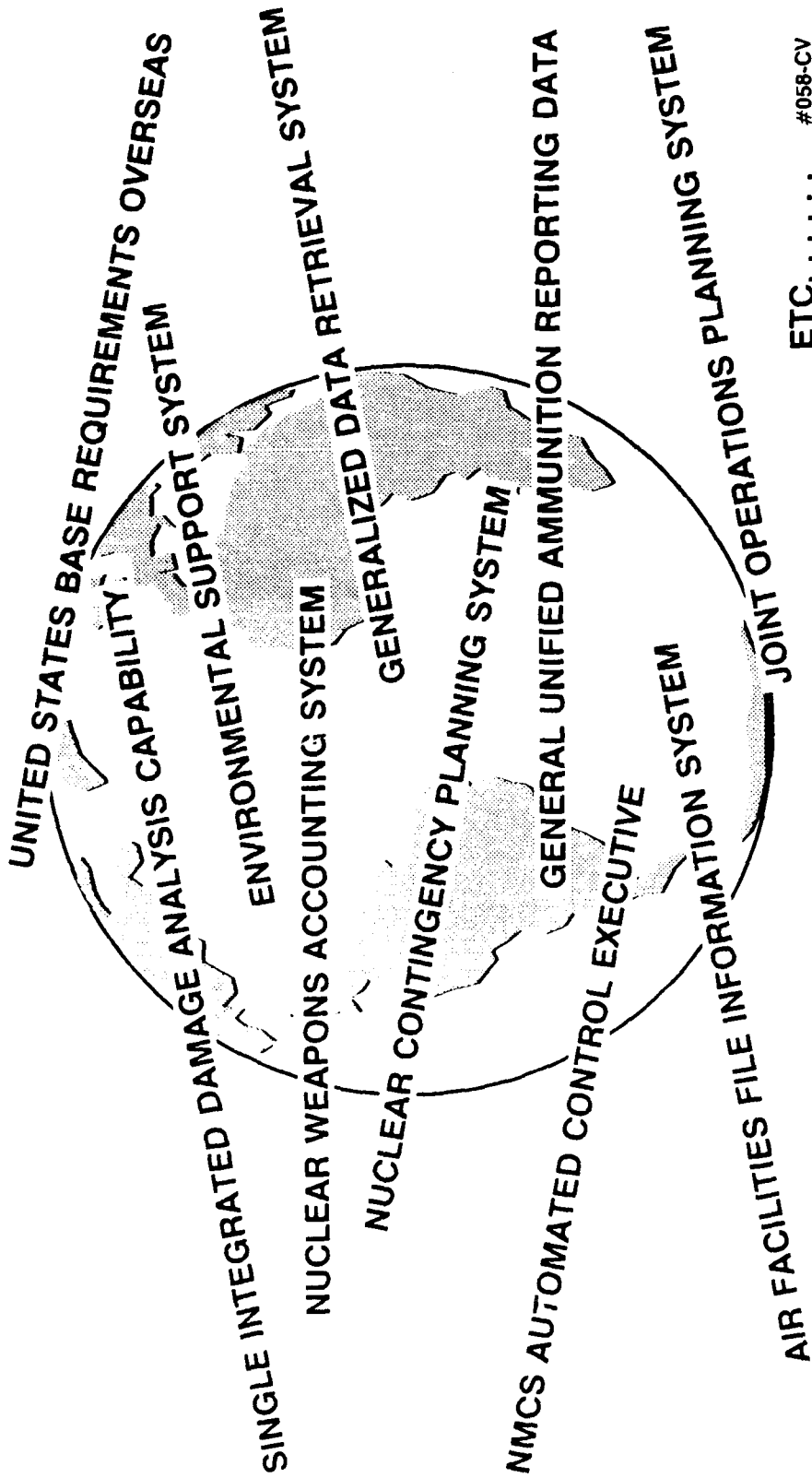


DATA & INFORMATION SYSTEMS



- NMCS INFORMATION DISPLAY SYSTEM
- JOINT RESOURCE ASSESSMENT DATA SYSTEM

WWMCS STANDARD APPLICATIONS

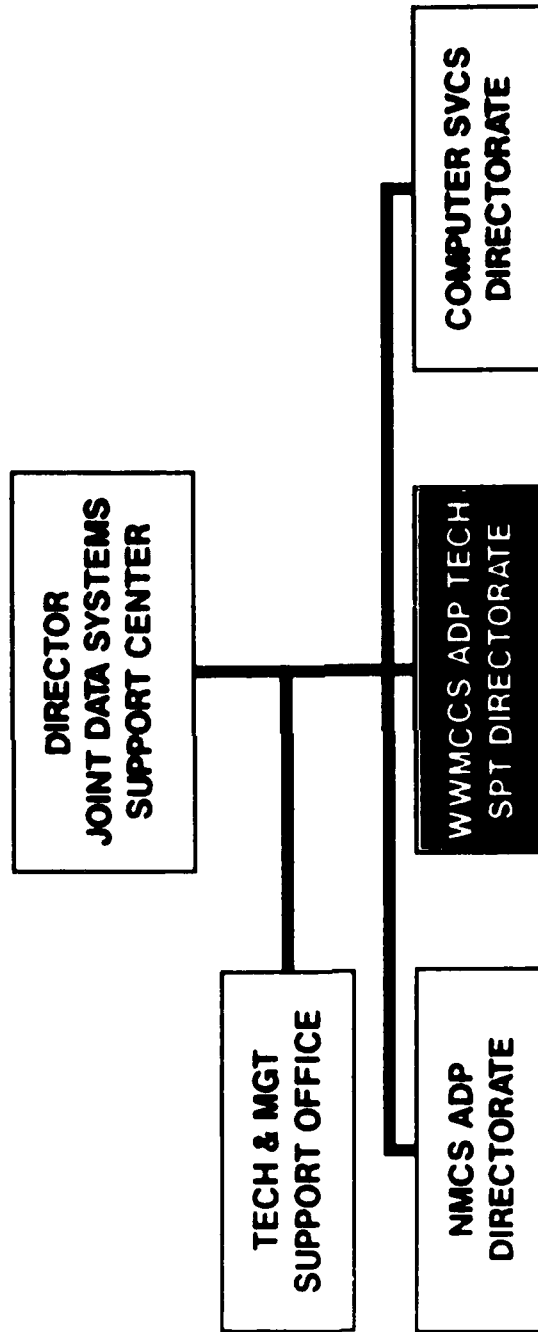


ETC. #058-CV

EXERCISES



JDSSC ORGANIZATION



058-34-FEB 88-RC

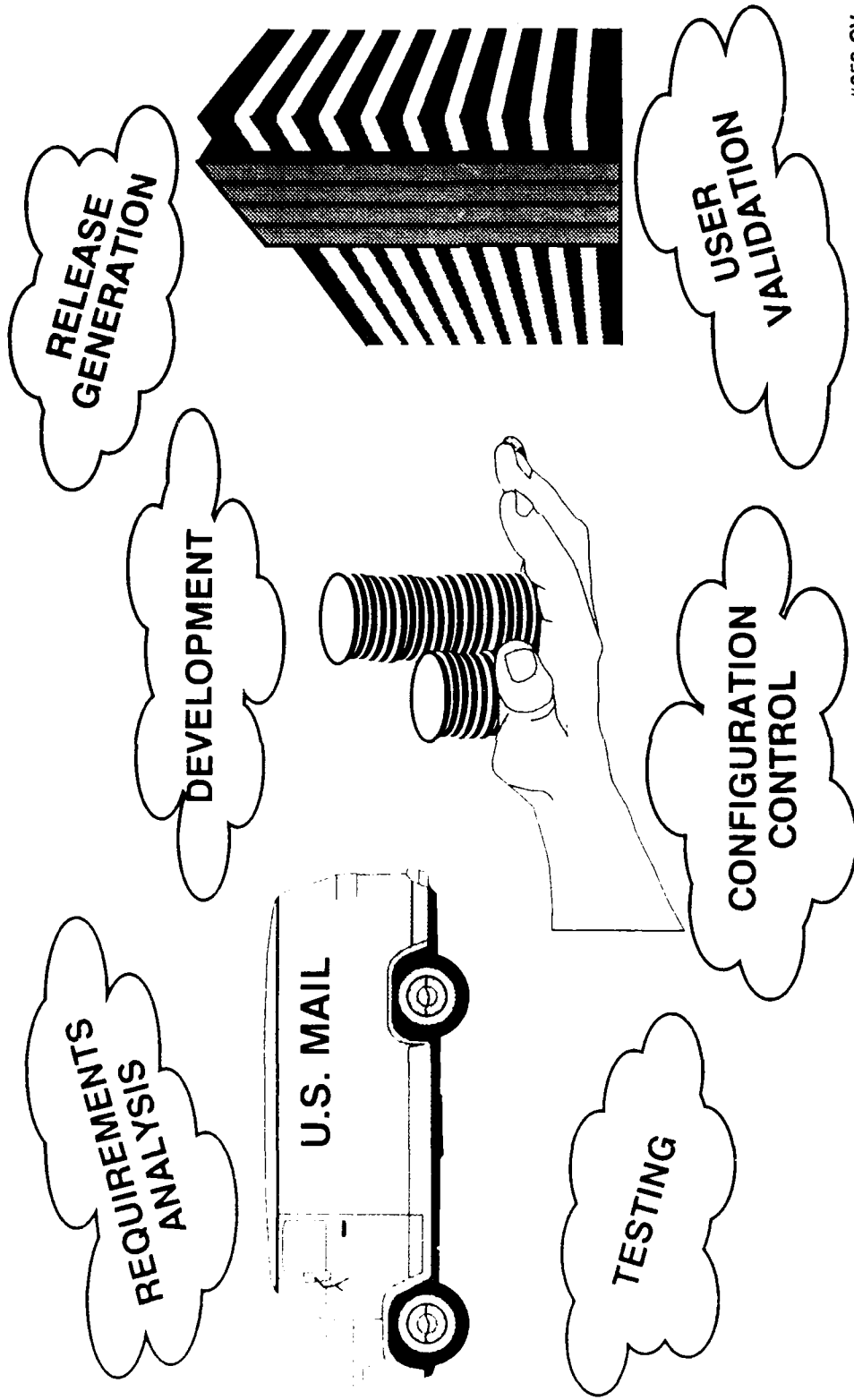
WWMCCS ADP TECHNICAL SUPPORT DIRECTORATE FUNCTIONS

- **DEVELOP, INTEGRATE, TEST, AND DISTRIBUTE WWMCCS ADP STANDARD SYSTEM SOFTWARE (INCLUDING UNBUNDLED SOFTWARE)**
- **IDENTIFY WWMCCS ADP REQUIREMENTS FOR SYSTEM SOFTWARE, EQUIPMENT, TRAINING, LOGISTICS, AND CONTRACTUAL SUPPORT**
- **PROVIDE FOCAL POINT FOR WWMCCS ADP SYSTEMS SOFTWARE CONFIGURATION MANAGEMENT CONTROL**
- **MANAGE INTEGRATED SYSTEMS TESTING OF THE WWMCCS INFORMATION SYSTEM**
- **PROVIDE FOCAL POINT FOR WWMCCS INTERCOMPUTER NETWORK**
- **PROVIDE ON-SITE ADP TECHNICAL ASSISTANCE**

**WWMCCS ADP TECHNICAL
SUPPORT DIRECTORATE
SUPPORT AREAS**

- **SYSTEM SOFTWARE ACTIVITIES**
- **WWMCCS INTERCOMPUTER NETWORK**
- **SITE ASSISTANCE**
- **CONFIGURATION MANAGEMENT**

SYSTEM SOFTWARE ACTIVITIES



#058-CV

WWMCCS INTERCOMPUTER NETWORK (WIN)

CAPABILITIES

- TELECONFERENCING
- REMOTE ACCESS
- FILE TRANSFER

AD-A195 551

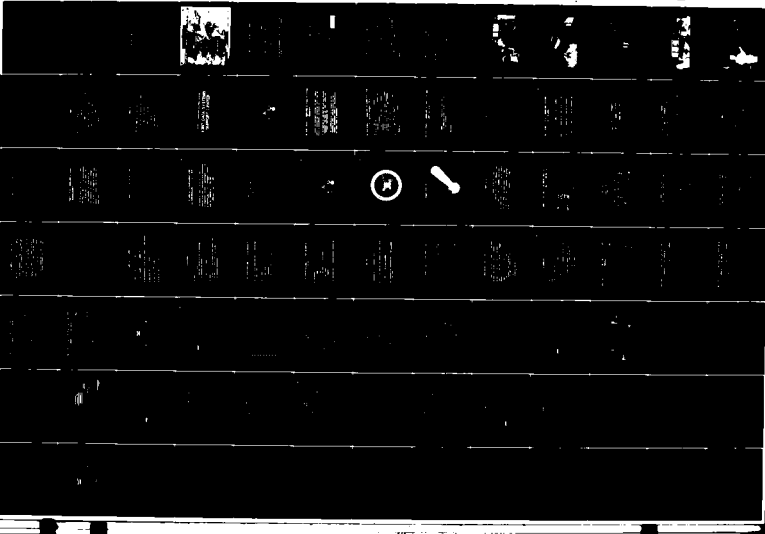
AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS
ASSOCIATION) SYMPOSIUM (2ND... (U) DEFENSE COMMUNICATIONS
AGENCY ARLINGTON VA APR 88

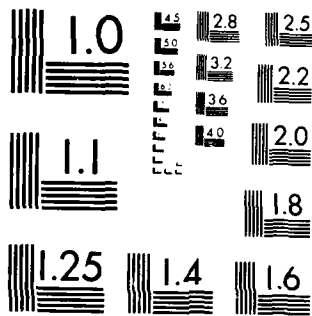
2/3

UNCLASSIFIED

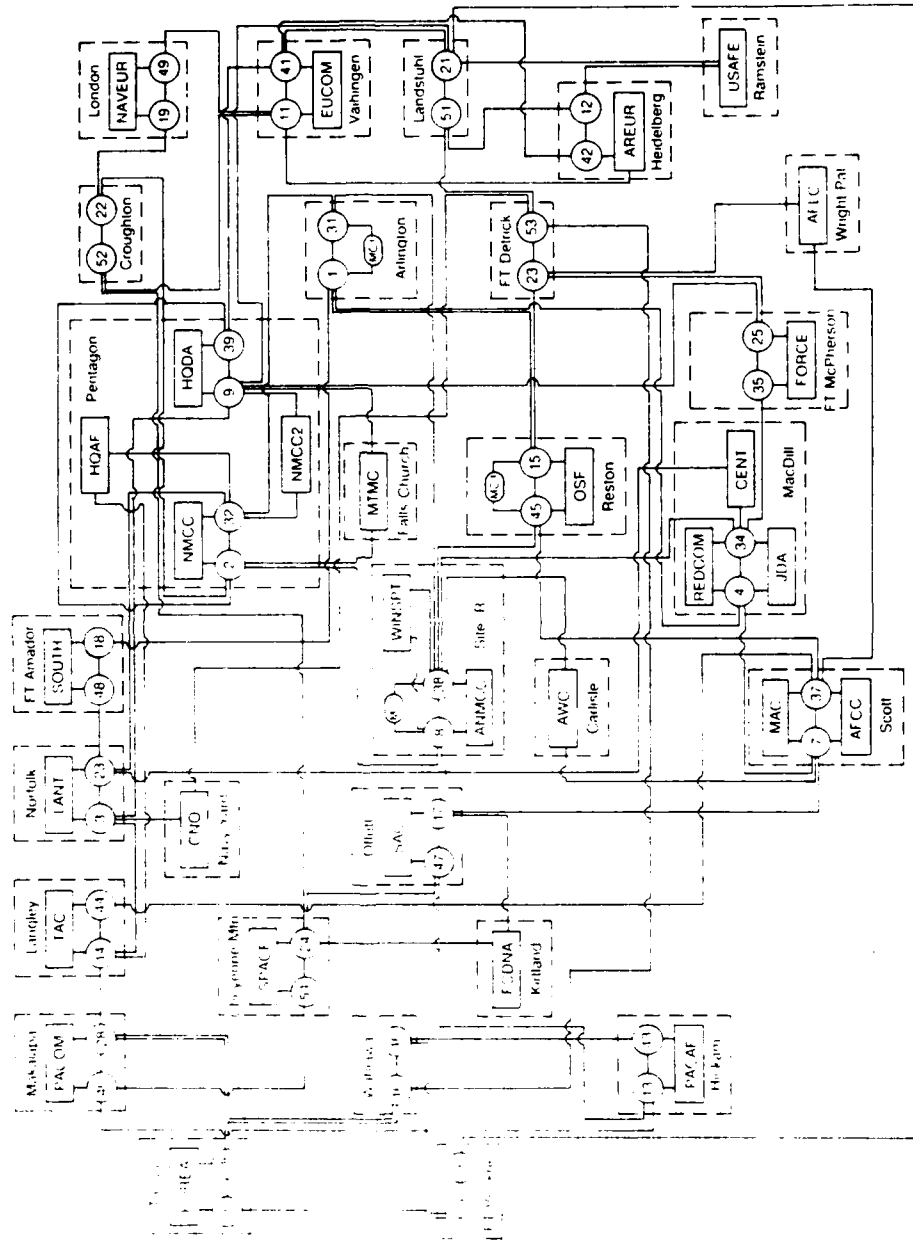
F/G 25/5

NL



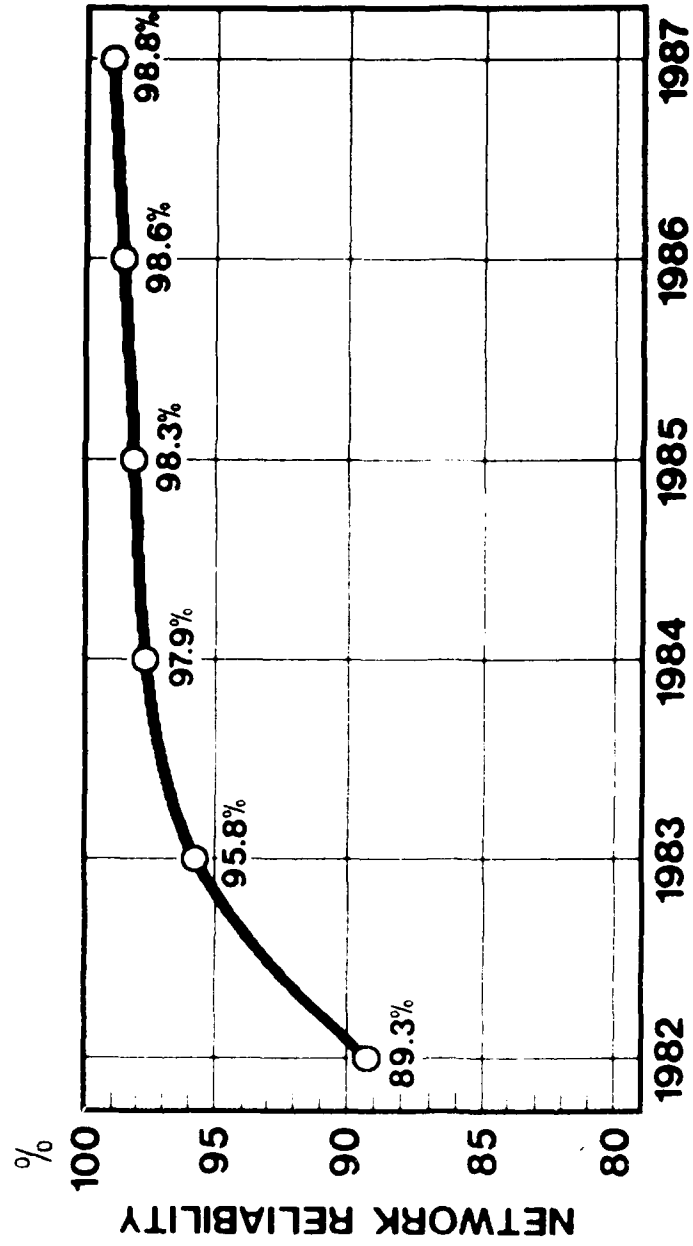


WIN TOPOLOGY



#058-CV

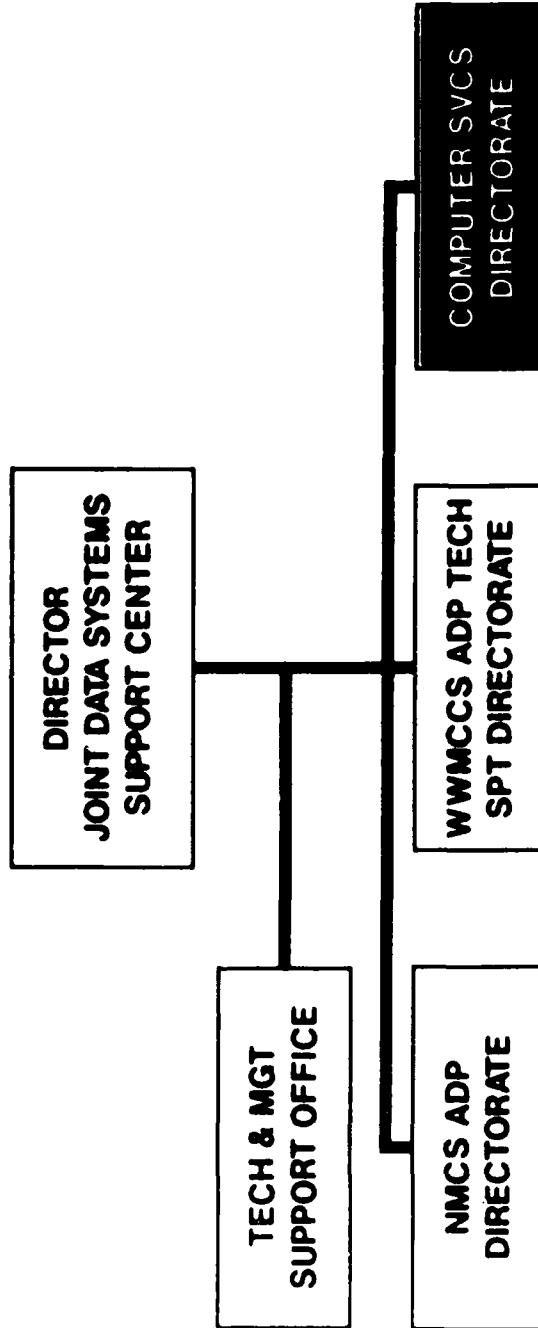
WIN RELIABILITY



CONFIGURATION MANAGEMENT

- **NETWORK ACCESSIBLE**
 - SOFTWARE CHANGES
 - HARDWARE/SOFTWARE INCIDENT SUBMISSION & STATUS
- **WORLDWIDE HARDWARE & SOFTWARE**
 - INVENTORY
 - MAINTENANCE/REPAIR HISTORY
- **MANAGEMENT OF SEPARATELY PRICED SOFTWARE**
- **BASELINE MANAGEMENT AND CHANGE CONTROL
FOR WWMCCS STANDARD SYSTEM SOFTWARE**

JDSSC ORGANIZATION



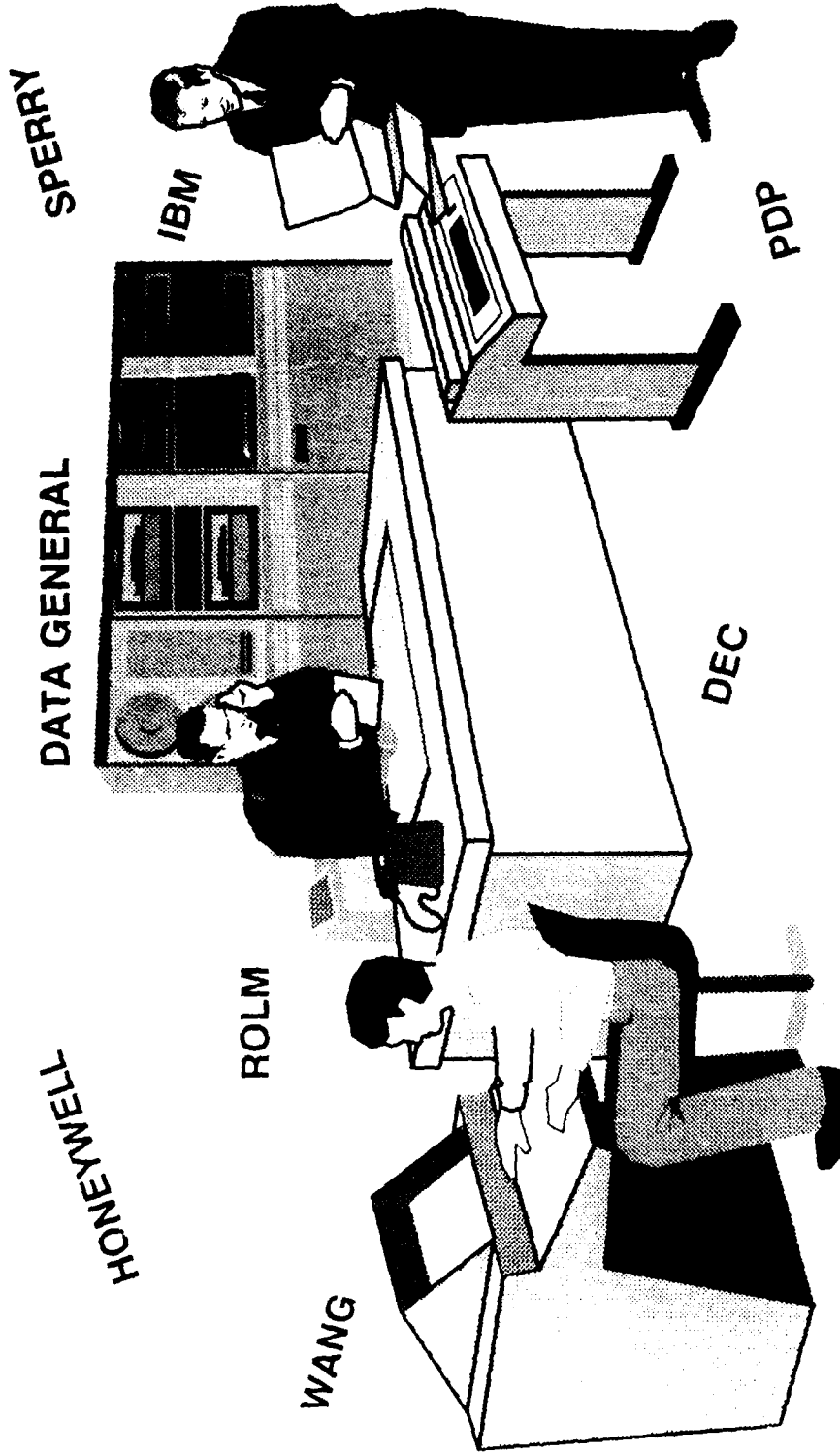
COMPUTER SERVICES DIRECTORATE FUNCTIONS

- MANAGE THE OPERATION OF ALL JDSSC ADP FACILITIES
- PROVIDE GENERAL TELEVISION AND ELECTRONIC AUDIOVISUAL SUPPORT
- MANAGE WWMCCS INTERCOMPUTER NETWORK OPERATIONS CENTER
- DIRECT THE ADP SECURITY PROGRAM
- INSTALL AND MAINTAIN SITE OPERATIONAL SYSTEM SOFTWARE
- DESIGN, DEVELOP, MAINTAIN, AND APPLY STANDARD WWMCCS ADP COMPUTER PERFORMANCE EVALUATION AND COMPUTER MEASUREMENT TOOLS AND TECHNIQUES
- DEVELOP AND PROCESS ACQUISITION ACTIONS FOR ALL ADP HARDWARE, SOFTWARE, EQUIPMENT MAINTENANCE, AND DATA COMMUNICATIONS

COMPUTER SERVICES DIRECTORATE SUPPORT AREAS

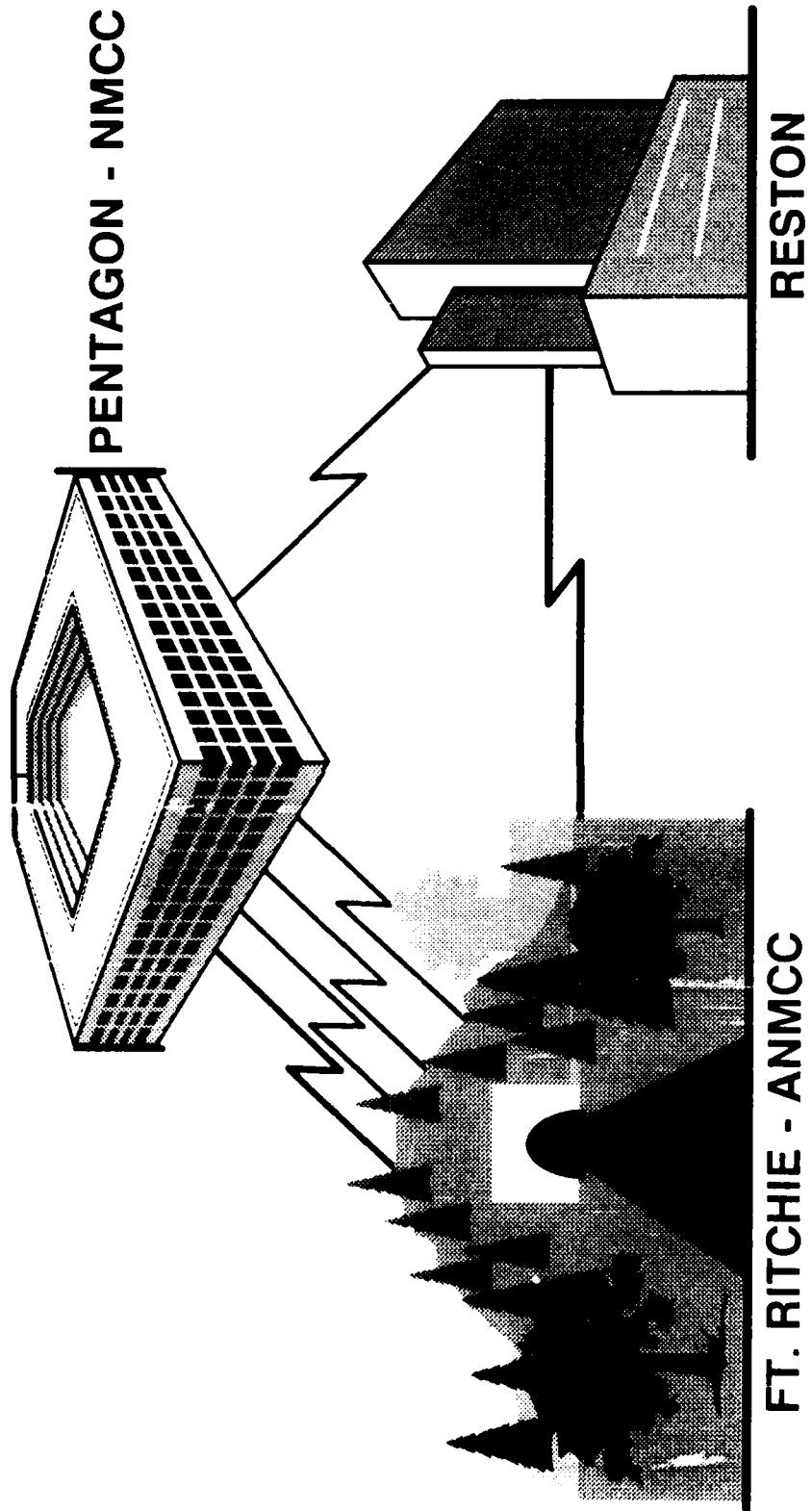
- **COMPUTER BASE**
- **INSTALLATIONS**
- **COMPUTER PERFORMANCE EVALUATION**
- **ADP SECURITY**
- **VISUAL RECORDING FACILITY**

COMPUTER BASE



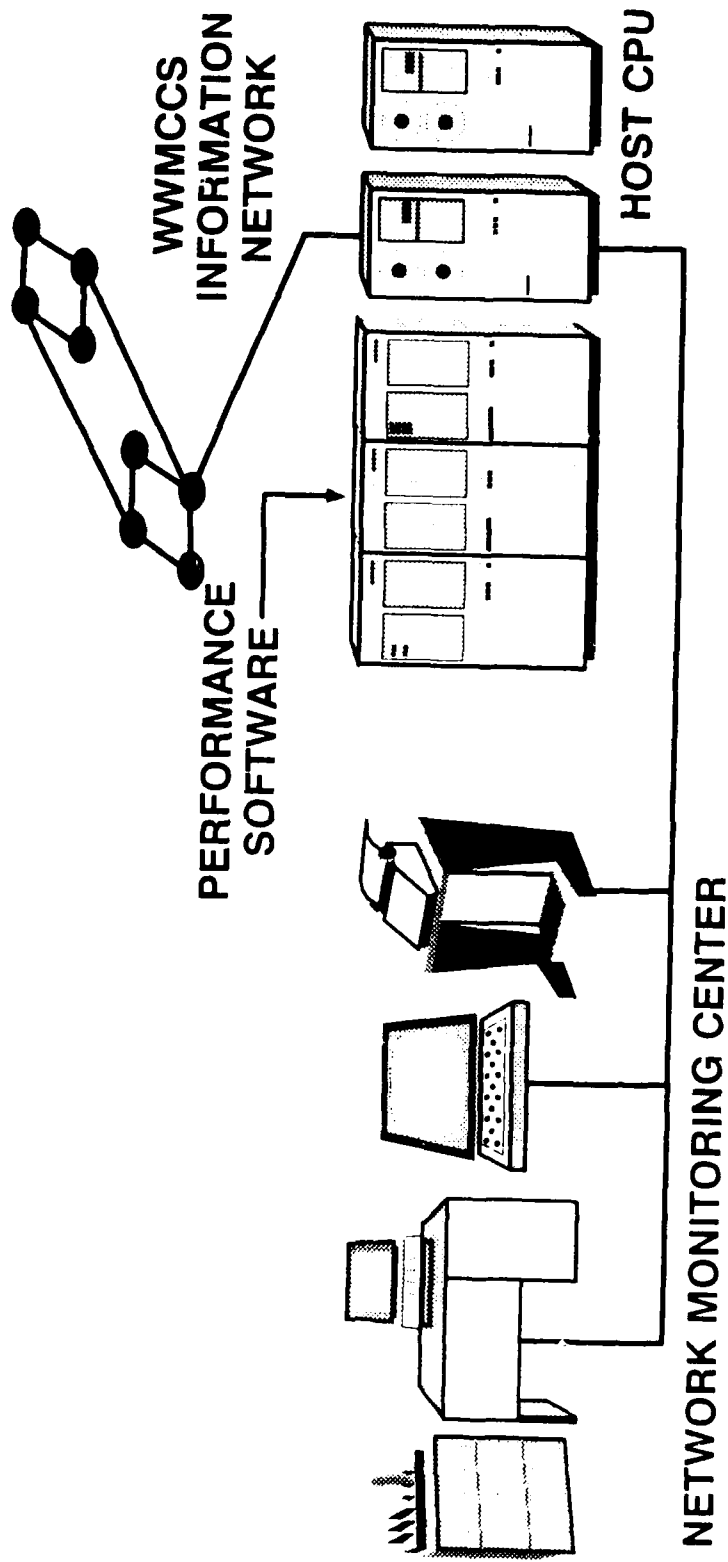
#058-CV

INSTALLATIONS



#058-CV

COMPUTER PERFORMANCE EVALUATION



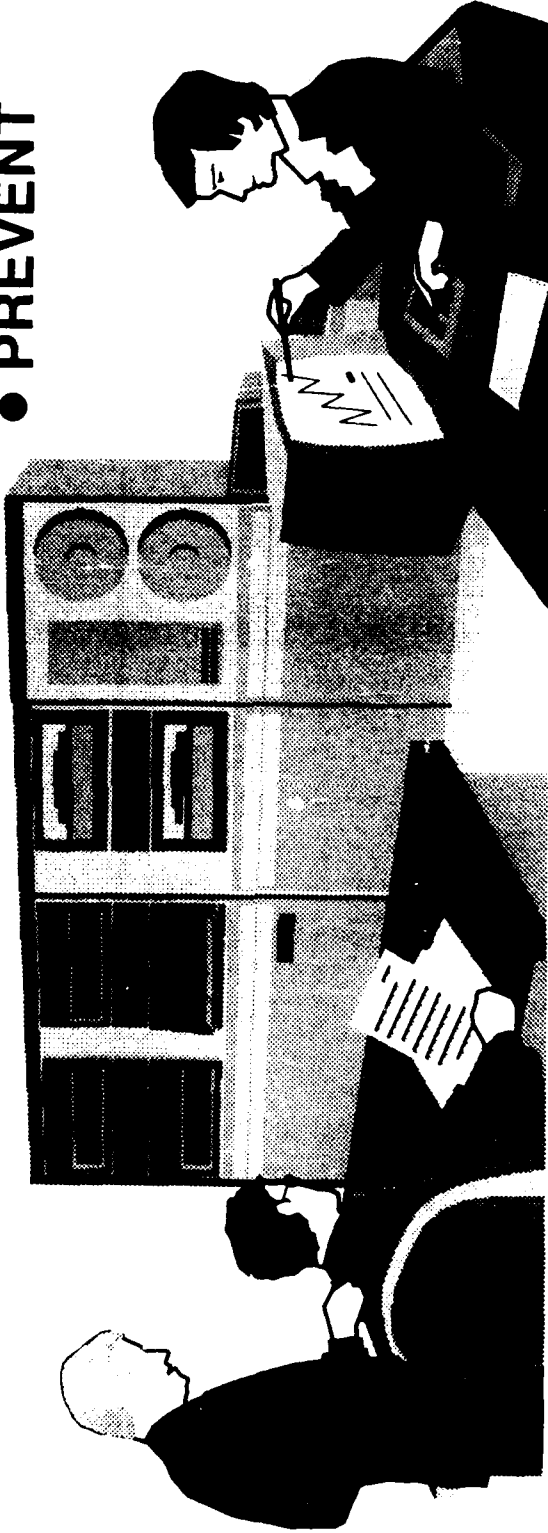
#058-CV

ADP SECURITY

● PROTECT

● PROVIDE

● PREVENT



● COMMUNICATIONS

● EMANATIONS

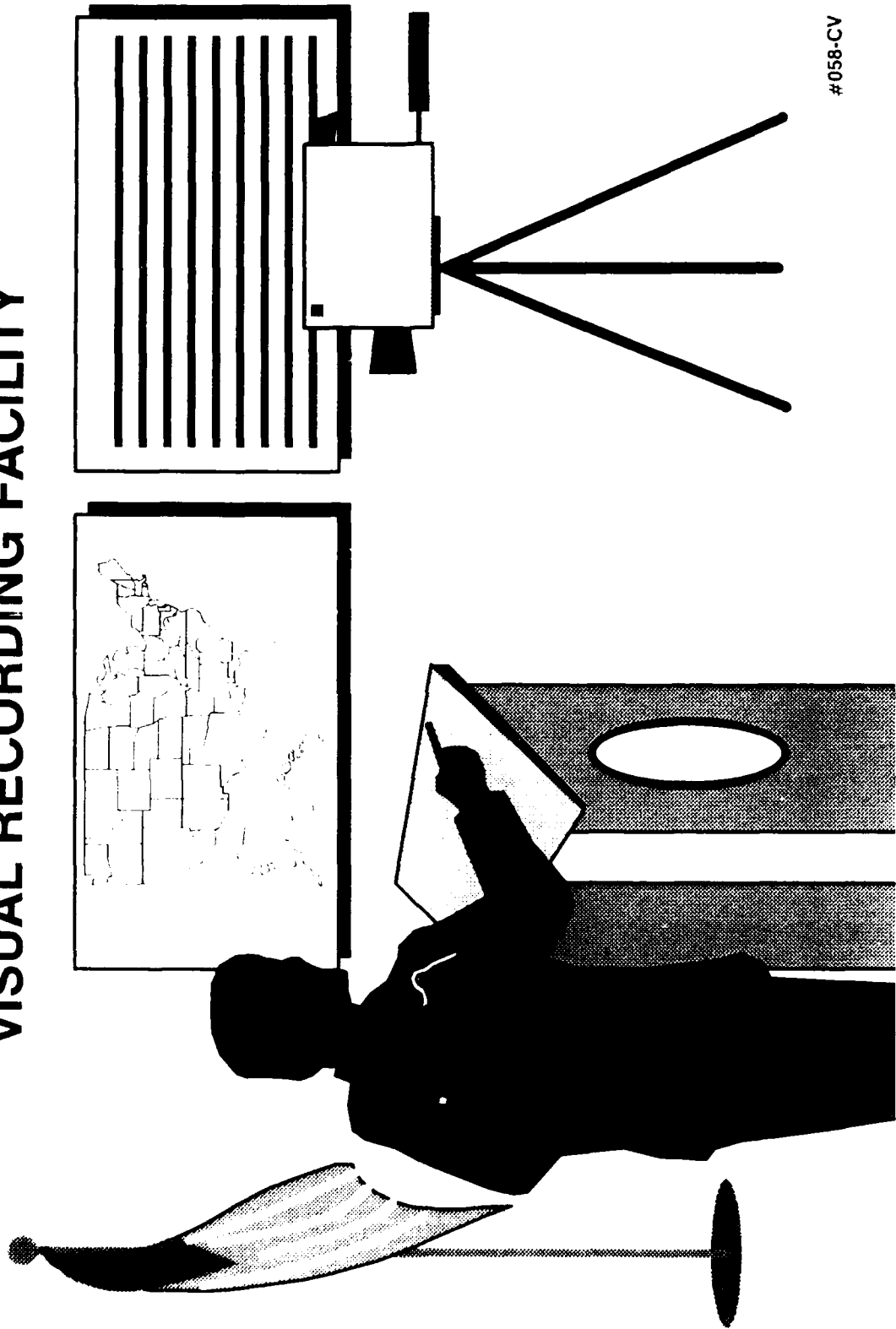
● HARDWARE

● SOFTWARE

● PHYSICAL

● INFORMATION #058-CV

VISUAL RECORDING FACILITY



#058-CV

SUMMARY COMPETITIVE CONTRACTS

TITLE	APPROXIMATE DOLLAR AMOUNT	ANTICIPATED RFP RELEASE DATE
ANALYTICAL SUPPORT TO OSD (STRATEGIC AND THEATER NUCLEAR ANALYSIS)	1.9-2.4M	JUN 88
ANALYTICAL SUPPORT TO OSD (DEFENSE ANALYSIS)	2.6-3.2M	OCT 90
NUCLEAR ADP SUPPORT TO OJCS	13.0-15.0M	OCT 90
MULTI-USER PROJECT	16.0-18.0M	OCT 90
GENERAL ADP SOFTWARE SUPPORT	26.0-28.0M	JUL 89
WWMCCS COMPUTER GRAPHICS SUPPORT	5.0-6.0M	JAN 90
AIR DEFENSE INITIATIVE	2.0-3.0M	OCT 90
OJCS INFORMATION SYSTEM REQUIREMENT, MANAGEMENT AND SUPPORT	9.1-11.2M	JUL 89
HYPERCHANNEL AND INTERCONNECTIVITY	3.6-4.2M	APR 88
	9.3-12.1M	JUL 88
WWMCCS INTERCOMPUTER NETWORK (WIN) HOST SOFTWARE	4.7-11.3M	JUN 88
WWMCCS INTERCOMPUTER NETWORK/WWMCCS INFORMATION SYSTEM TEST AND EVALUATION SUPPORT	3.0-4.5M	JUN 89
GENERAL SYSTEM SOFTWARE SUPPORT	6.1-7.9M	JUN 89
TEMPEST TESTING	1.8-2.6M	OCT 89

#067-CV

SMALL AND DISADVANTAGED BUSINESS

TITLE	APPROXIMATE DOLLAR AMOUNT	ANTICIPATED RFP RELEASE DATE
WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM SOFTWARE AND EVALUATION	1.4 - 1.6 M	JAN 90
COMPUTER PERFORMANCE EVALUATION	0.3 - 0.5 M	FEB 90
GRAPHICS SUPPORT	3.6 - 4.4 M	JAN 90
JOINT STAFF SUPPORT INFORMATION SYSTEM	3.3 - 3.9 M	JUN 88
WORLD WIDE MILITARY COMMAND AND CONTROL SYSTEM INFORMATION SYSTEM CONFIGURATION MANAGEMENT	1.7 - 2.3 M	MAR 89
JOINT MISSION APPLICATIONS SOFTWARE INTEGRATED SYSTEM TEST	1.0 - 1.4 M	JAN 91
STRATEGIC FORCES ANALYSIS	0.3 - 0.5 M	JUN 91
NUCLEAR WEAPONS TARGETING POLICY	0.3 - 0.5 M	JUN 90

#067-CV

SUMMARY

- **JDSSC CHARACTERISTICS**
 - **DIVERSITY IN MISSIONS**
 - **DEVELOPMENTAL AND OPERATIONAL ROLES**
 - **WIDE SPECTRUM OF TECHNICAL ACTIVITY**
 - **OPERATIONS ORIENTED MILITARY STAFF**
 - **TECHNICALLY ORIENTED CIVILIAN STAFF**
 - **WORLDWIDE RESPONSIBILITIES**

SUMMARY

- **TECHNICAL CHALLENGES**
 - **GRAPHICS PRESENTATION TECHNIQUES**
 - **DATABASE CONVERSION**
 - **COMPUTER MODELING**
 - **NETWORKING**
 - **IMPLEMENTATION OF ADA**
 - **WIS TRANSITION**



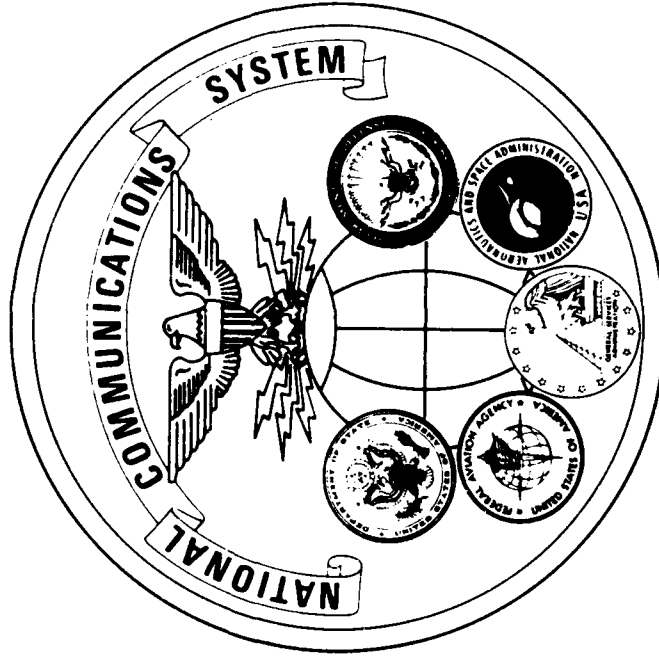
DEFENSE COMMUNICATIONS AGENCY

**JOINT DATA SYSTEMS
SUPPORT CENTER**



OSD-1-FEB 88-RC

NCS OVERVIEW



#057-J-CV

THE NATIONAL COMMUNICATIONS SYSTEM

- MISSION

**TO ASSIST THE PRESIDENT, NATIONAL SECURITY COUNCIL,
OFFICE OF SCIENCE AND TECHNOLOGY POLICY AND THE
OFFICE OF MANAGEMENT AND BUDGET IN:**

- **THE EXERCISE OF THEIR WARTIME AND NON-WARTIME
EMERGENCY FUNCTIONS, AND THEIR PLANNING AND
OVERSIGHT RESPONSIBILITIES**
- **THE COORDINATION OF THE PLANNING FOR AND
PROVISION OF NSEP COMMUNICATIONS FOR THE
FEDERAL GOVERNMENT UNDER ALL CIRCUMSTANCES,
INCLUDING CRISIS OR EMERGENCY**

THE NATIONAL COMMUNICATIONS SYSTEM - KEY RESPONSIBILITIES

- **SEEK DEVELOPMENT OF A NATIONAL TELECOMMUNICATIONS INFRASTRUCTURE WHICH:**
 - **IS RESPONSIVE TO NSEP NEEDS OF THE PRESIDENT AND THE FEDERAL GOVERNMENT**
 - **IS CAPABLE OF SATISFYING PRIORITY TELECOMMUNICATIONS REQUIREMENTS**
 - **INCORPORATES THE NECESSARY COMBINATION OF HARDNESS, REDUNDANCY, MOBILITY, CONNECTIVITY, INTEROPERABILITY, RESTORABILITY, AND SECURITY TO MAXIMIZE SURVIVABILITY**
 - **IS CONSISTANT WITH OTHER NATIONAL POLICIES**

- **SERVE AS A FOCAL POINT FOR JOINT INDUSTRY-GOVERNMENT NSEP TELECOMMUNICATIONS PLANNING**

- **ESTABLISH A JOINT INDUSTRY-GOVERNMENT NATIONAL COORDINATING CENTER**

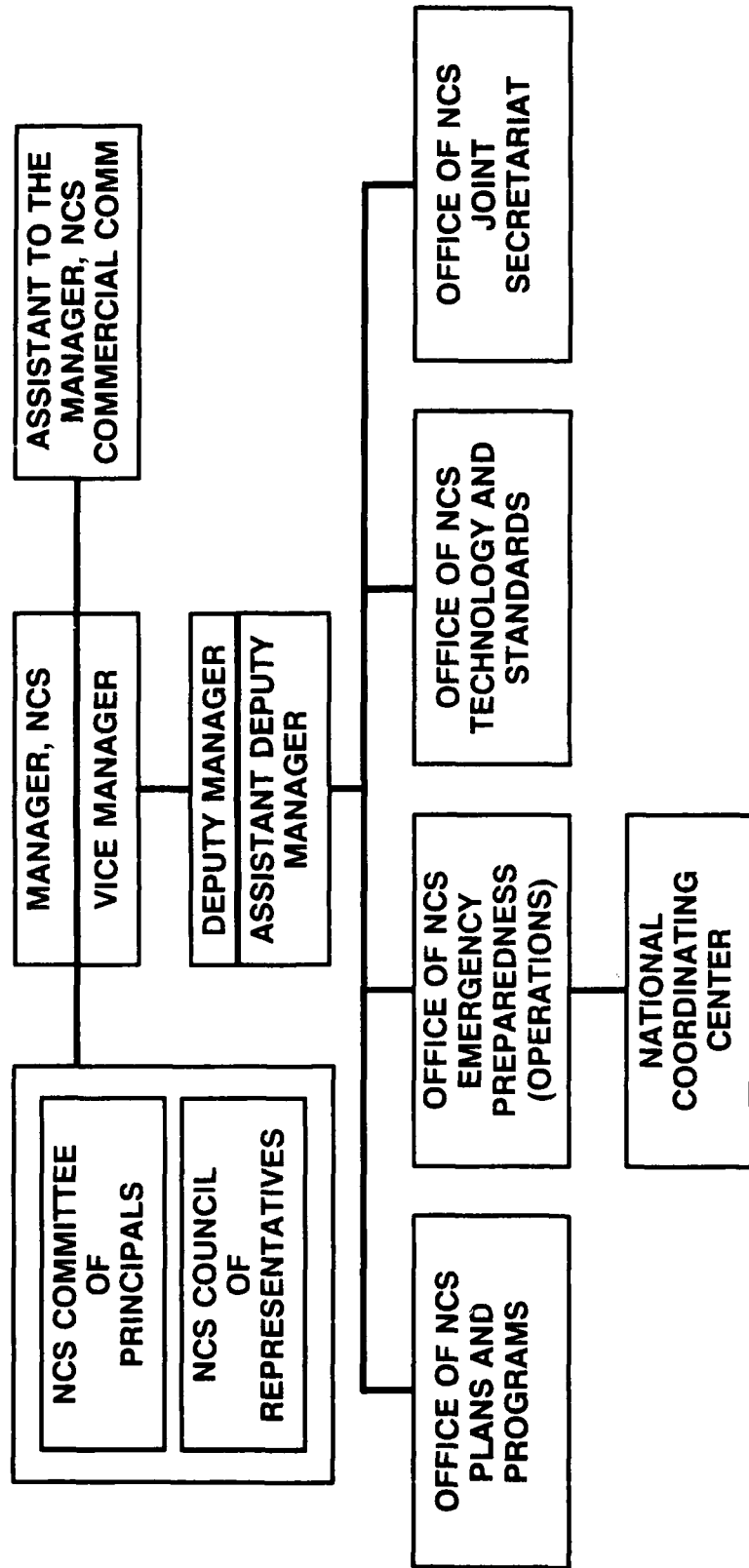
THE NATIONAL COMMUNICATIONS SYSTEM - COMPOSITION

● **EXECUTIVE AGENT**

● **COMMITTEE OF PRINCIPALS AND THE
TELECOMMUNICATIONS ASSETS OF THE
ENTITIES THEREON**

● **MANAGER**

OFFICE OF THE MANAGER, NATIONAL COMMUNICATIONS SYSTEM



#057-J-CV

NCS NSEP TELECOMMUNICATIONS PROGRAMS

- **INDUSTRY-GOVERNMENT JOINT PLANNING**
- **NSEP TELECOMMUNICATIONS ARCHITECTURE**
- **NSEP TELECOMMUNICATIONS MANAGEMENT**
- **TECHNICAL STANDARDS AND INTEROPERABILITY**

**INDUSTRY-GOVERNMENT
JOINT PLANNING FOR NSEP
TELECOMMUNICATIONS**

**INDUSTRY-GOVERNMENT
JOINT PLANNING
MAJOR CONTRACTUAL EFFORTS**

CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN HAMILTON	< 3M	MAY 87 - MAY 90

**NSEP TELECOMMUNICATIONS
ARCHITECTURE - E.O. 12472**

**THE MANAGER SHALL DEVELOP
A "RECOMMENDED EVOLUTIONARY
TELECOMMUNICATIONS ARCHITECTURE
DESIGNED TO MEET CURRENT AND
FUTURE FEDERAL GOVERNMENT NSEP
TELECOMMUNICATIONS REQUIREMENTS":**

TELECOMMUNICATIONS ARCHITECTURE MAJOR CONTRACTUAL EFFORTS

CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA 100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN & HAMILTON	> 10M	MAY 87 - MAY 90
DCA 100-87-C-0101	SHARES	C-CUBED	< 1M	JUN 87 - JUN 88
DCA 100-86-C-0015	NETS, TASK IV	AT&T	> 10M	JAN 86 - APR 88
DCA 100-87-C-0139	NETS APPLICATION TO NTI DMS FAMILY	NTI	< 10M	SEP 87 - MAR 90
DCA 100-87-C-0142	US SPRINT SUPPORT TO NETS	US SPRINT	< 3M	SEP 87 - MAR 90
	MCI SUPPORT TO NETS	MCI	< 3M	FEB 88 - AUG 90
	NETS MAINTENANCE AND CONFIGURATION MGMT	NETWORK SOLUTIONS	< 5M	JAN 88 - JAN 91
DCA 100-87-C-0042	CSI PILOT PROGRAM	CONTEL	< 5M	AUG 87 - SEP 94
DCA 100-87-C-0043	CSI ITT&C (RCA)	CONTEL	< 10M	AUG 87 - SEP 94

#057-CV

TELECOMMUNICATIONS ARCHITECTURE MAJOR CONTRACTUAL EFFORTS

FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>RFP ANTICIPATED DATE</u>	<u>PERIOD OF PERFORMANCE</u>
NETS PROGRAM			
LOCAL EXCHANGE CARRIER SUPPORT TO NETS	<5M	CURRENT (COMPETITIVE)	JUN 88 - JAN 90
ROBUST NON-HIERARCHICAL ROUTING IN AT&T NETWORK	>5M	CURRENT (AT&T)	AUG 88 - SEP 92
SURVIVABLE SIGNALING IN THE AT&T NETWORK	>10M	CURRENT (AT&T)	SEP 88 - SEP 91
NETS SETA SUPPORT	>5M	APR 88 (COMPETITIVE)	SEP 88 - SEP 91
NETS PRIME CONTRACTOR	>10M	AUG 89 (COMPETITIVE)	DEC 90 - DEC 95
CNS PROGRAM			
CNS DATA COLLECTION	<5M	CURRENT (8A)	APR 88 - MAR 91
CNS DATA SERVICES	<5M	CURRENT (8A)	SEP 88 - AUG 91
CSI PROGRAM			
CSI COMM INTEROP	>10M	CURRENT (COMPETITIVE)	JUN 88 - JUN 96
CSI ITT&C (HUGHES)	<5M	CURRENT (COMPETITIVE)	APR 88 - APR 96

#057-CV

**NSEP TELECOMMUNICATIONS
MANAGEMENT - E.O. 12472**

**THE MANAGER SHALL DEVELOP "PLANS
AND PROCEDURES FOR THE MANAGEMENT,
ALLOCATION AND USE, INCLUDING THE
ESTABLISHMENT OF PRIORITIES OR
PREFERENCES, OF FEDERALLY OWNED
OR LEASED TELECOMMUNICATIONS ASSETS
UNDER ALL CONDITIONS OF CRISIS OR
EMERGENCY":**

TELECOMMUNICATIONS MANAGEMENT MAJOR CONTRACTUAL EFFORTS

CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA 100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN HAMILTON	<10M	FEB 87 - FEB 90
DCA 100-87-C-0131	EMERGENCY PREPAREDNESS MGMT INFORMATION SYS	BOOZ-ALLEN HAMILTON	<5M	SEP 87 - SEP 90
DCA 100-87-C-0136	TELECOMMUNICATIONS SERVICES PRIORITY SYSTEM, SYSTEM ENGINEERING AND TECHNICAL ANALYSIS	NETWORK STRATEGIES INC	<5M	SEP 87 - SEP 90

FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED RFP DATE</u>	<u>PERIOD OF PERFORMANCE</u>
EMERGENCY PREPAREDNESS MGMT INFORMATION SYSTEM EXPERT SYSTEM RESOURCE ALLOCATION MODULE INTEGRATION	<1M	MAR 88 (SBA)	JUN 88 - MAY 89

#057-CV

**TECHNICAL STANDARDS AND
INTEROPERABILITY - E.O. 12472**

**THE MANAGER SHALL DEVELOP "PLANS,
PROCEDURES AND STANDARDS FOR MINIMIZING
OR REMOVING TECHNICAL IMPEDIMENTS TO THE
INTEROPERABILITY OF GOVERNMENT-OWNED
AND/OR COMMERCIALY-PROVIDED
TELECOMMUNICATIONS SYSTEMS":**

TECHNICAL STANDARDS AND INTEROPERABILITY MAJOR CONTRACTUAL EFFORTS

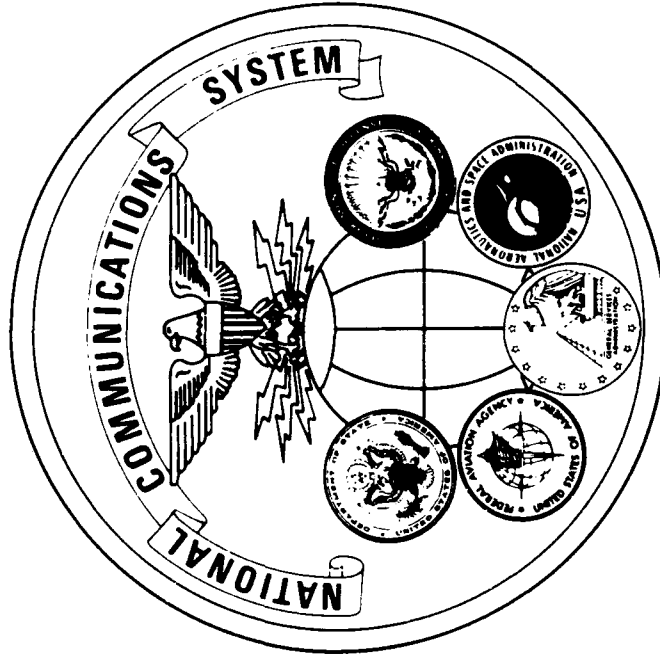
CURRENT

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA 100-87-C-0063	SYSTEMS ENGINEERING & TECHNICAL ANALYSIS	BOOZ-ALLEN HAMILTON	<1M	MAY 87 - MAY 90
DCA 100-87-C-0078	STUDIES & ANALYSIS IN SUPPORT OF FED TELECOM STDS RELATING TO FACSIMILE & VIDEO TELECONFERENCING	DELTA INFORMATION SYSTEMS	<2M	JUN 87 - SEP 90
DCA 100-87-C-0027	EMP ASSESSMENT OF #4 ESS	AT&T	>5M	DEC 87 - DEC 90

FUTURE

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED RFP DATE</u>	<u>PERIOD OF PERFORMANCE</u>
EMP VULNERABILITY ANALYSIS OF DIGITAL SWITCHES IN PUBLIC SWITCHED NETWORK	<1M	CURRENT (8A)	JUL 88 - JUN 89
RADIATION HARDNESS ASSESSMENT OF 4ESS	<2M	JUN 88 (AT&T)	JUL 88 - JUN 90 #057-CV

THE NATIONAL COMMUNICATIONS SYSTEM

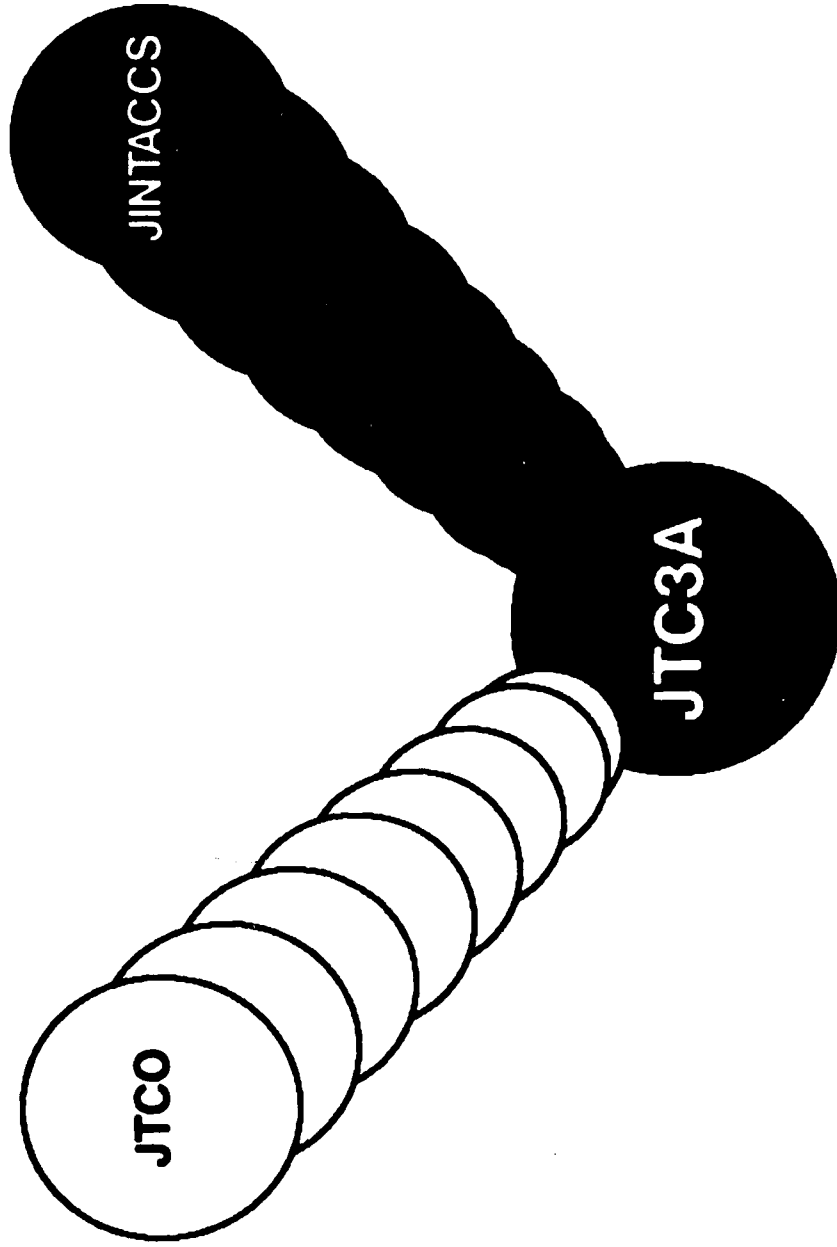


#057-J-CV

#056-H-CV



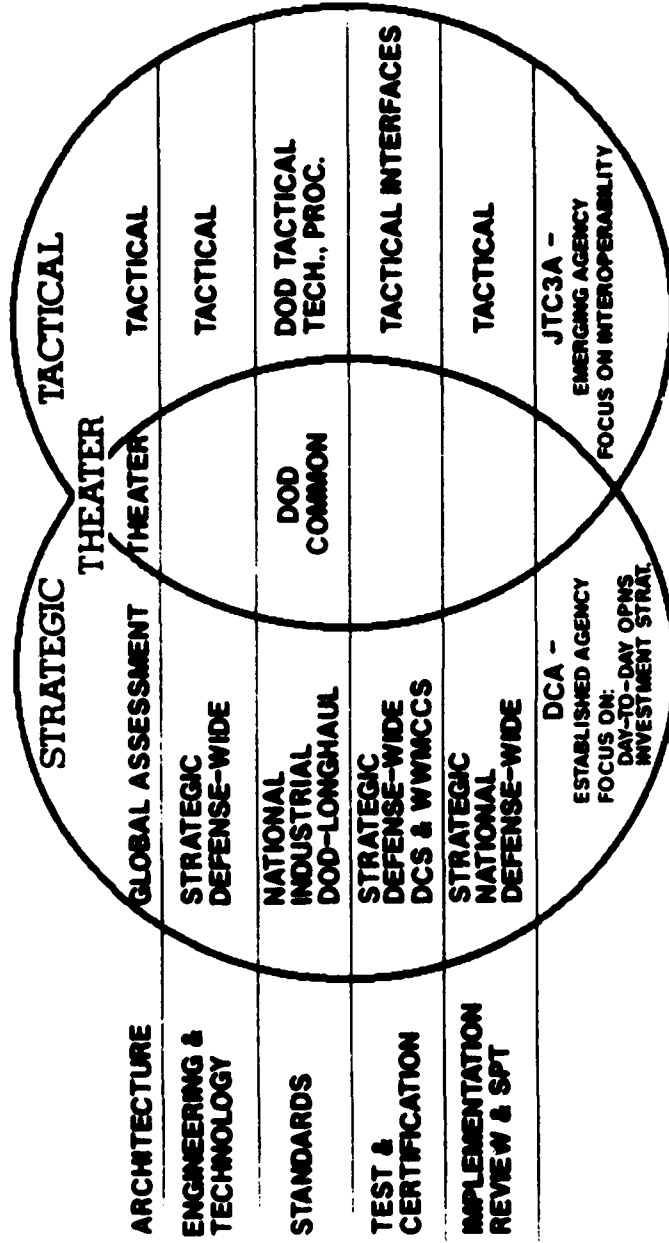
FORMATION OF JTC3A



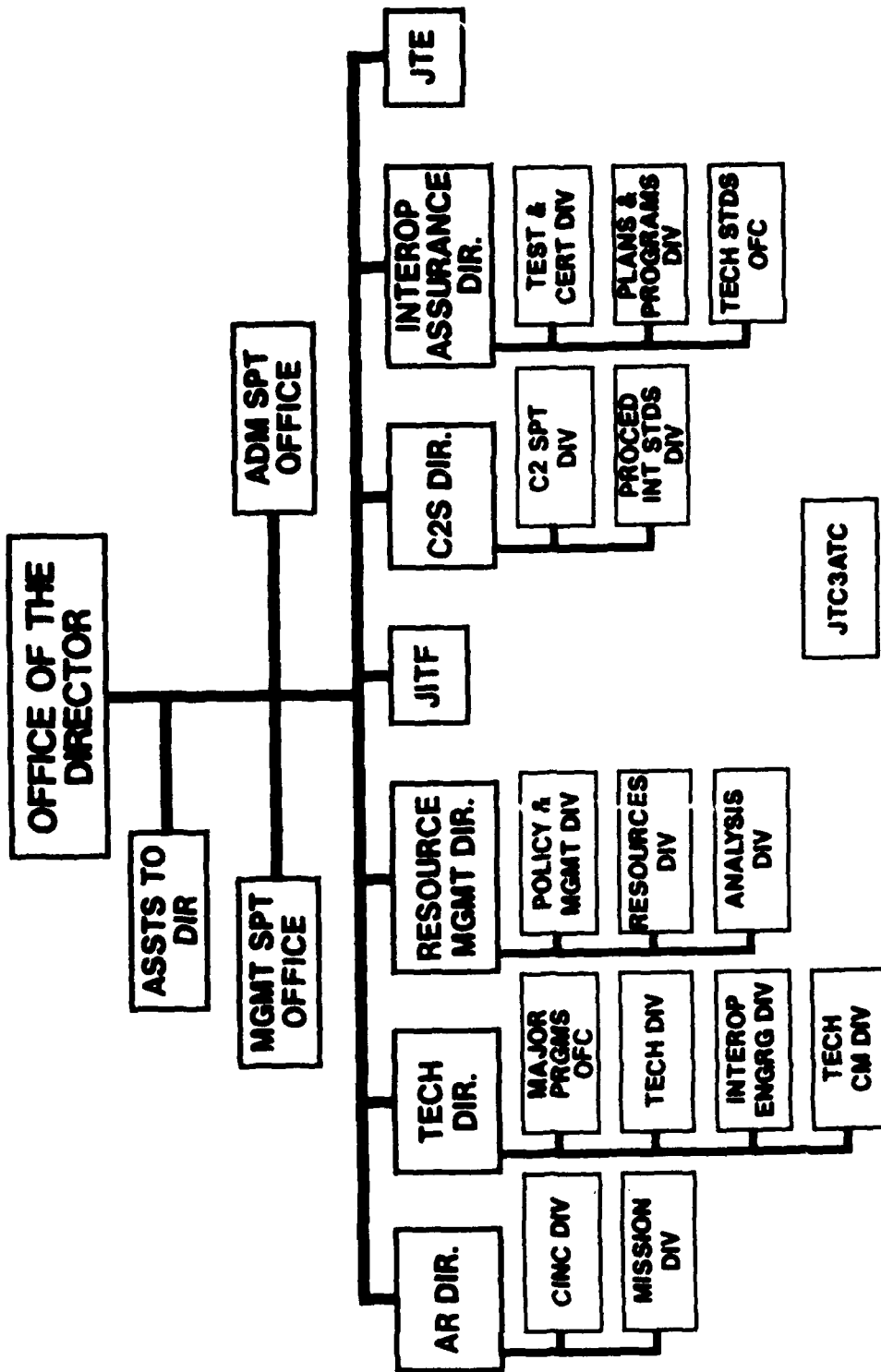
JTC3A MISSION

THE JTC3A SHALL ENSURE THE INTEROPERABILITY OF TACTICAL COMMAND, CONTROL, AND COMMUNICATIONS (C3) SYSTEMS FOR JOINT OR COMBINED OPERATIONS (INCLUDING NONSTRATEGIC NUCLEAR FORCES) THROUGH THE DEVELOPMENT AND MAINTENANCE OF A JOINT ARCHITECTURE, INTERFACE STANDARDS, AND INTERFACE DEFINITIONS FOR TACTICAL/MOBILE C3 SYSTEMS.

CONSOLIDATION: THE MEETING OF TWO C3 WORLDS

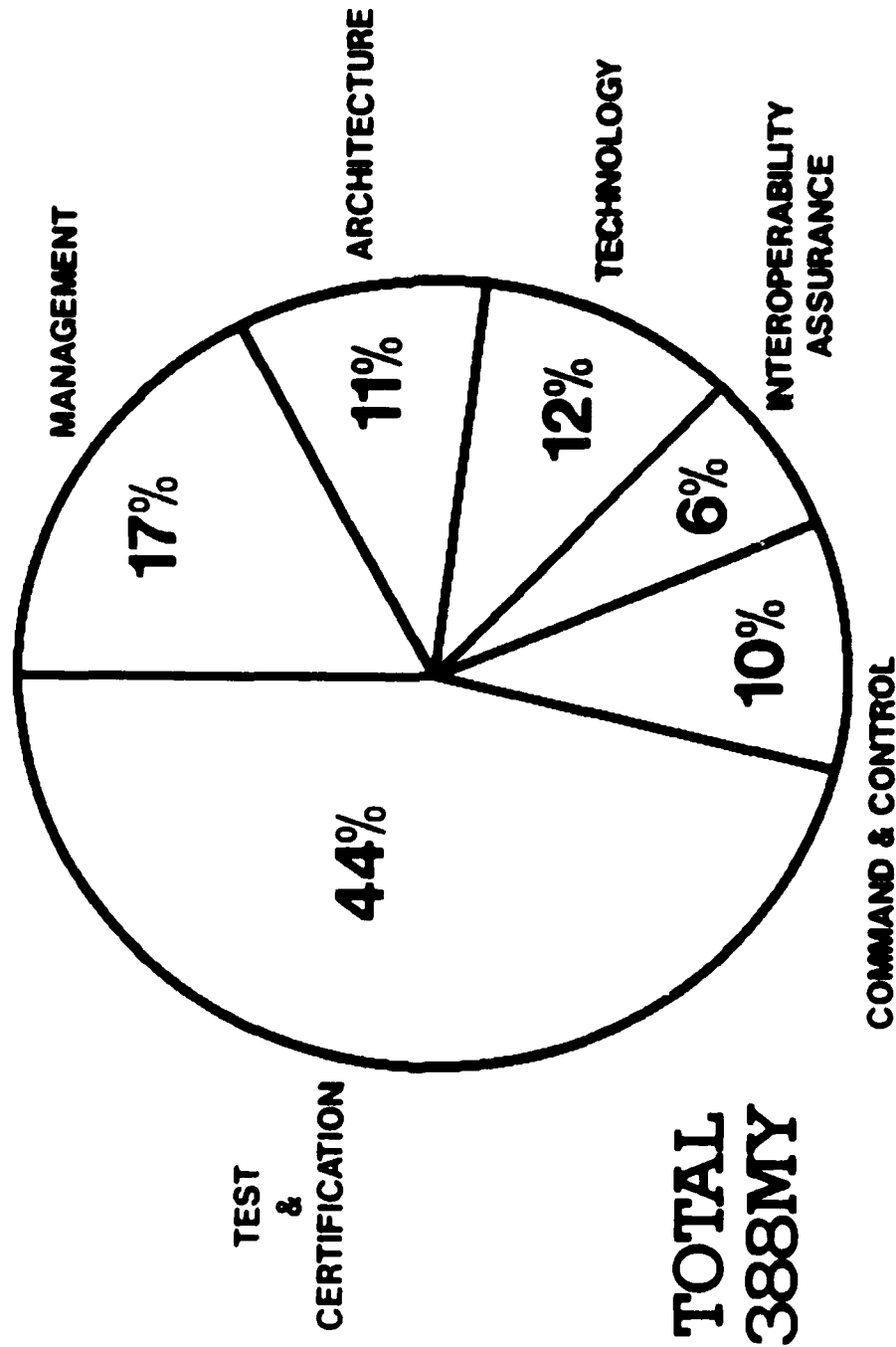


JTC3A ORGANIZATION

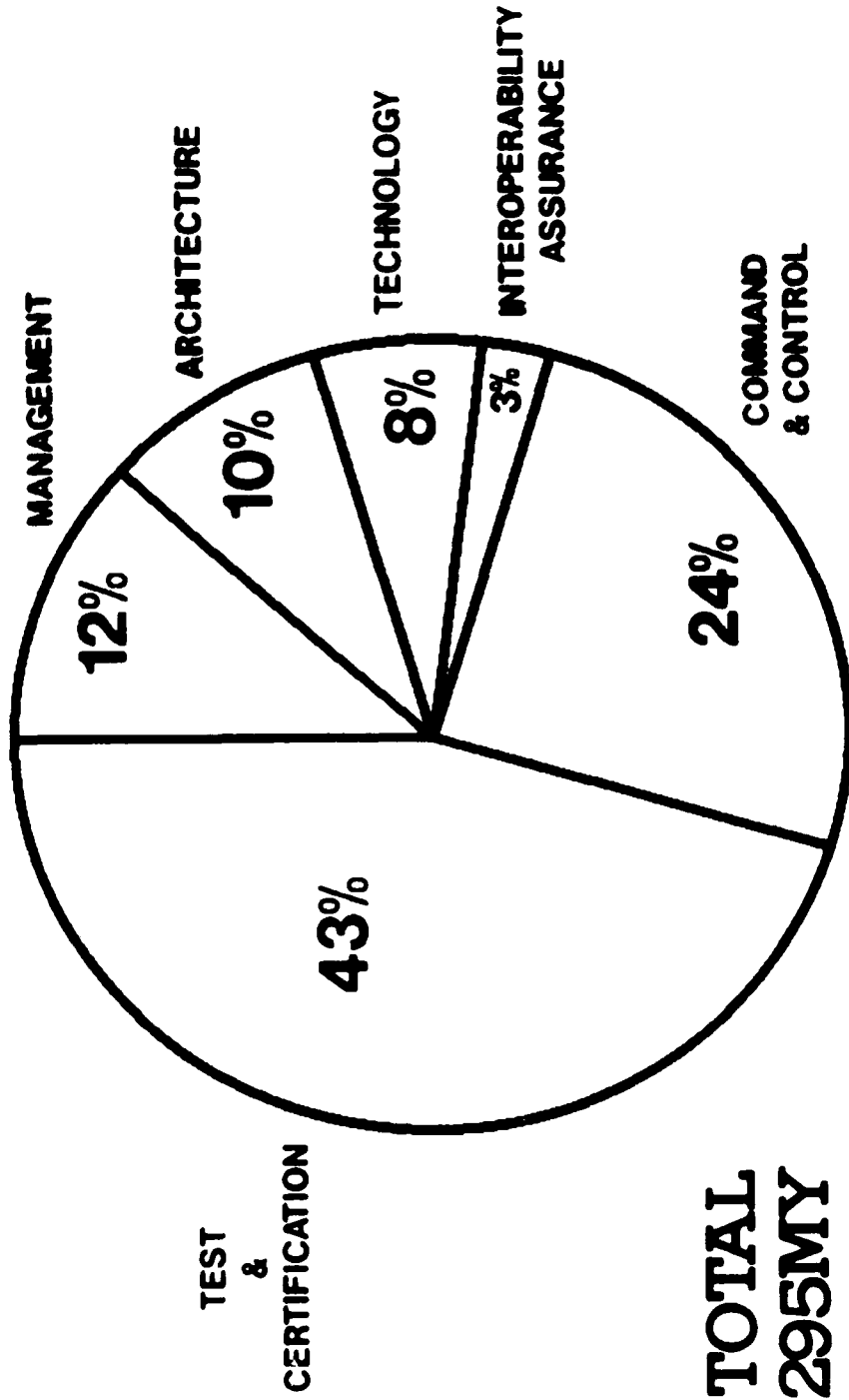


OS6-5-FEB 88-RC

PERSONNEL UTILIZATION BY FUNCTIONAL AREA - FY88

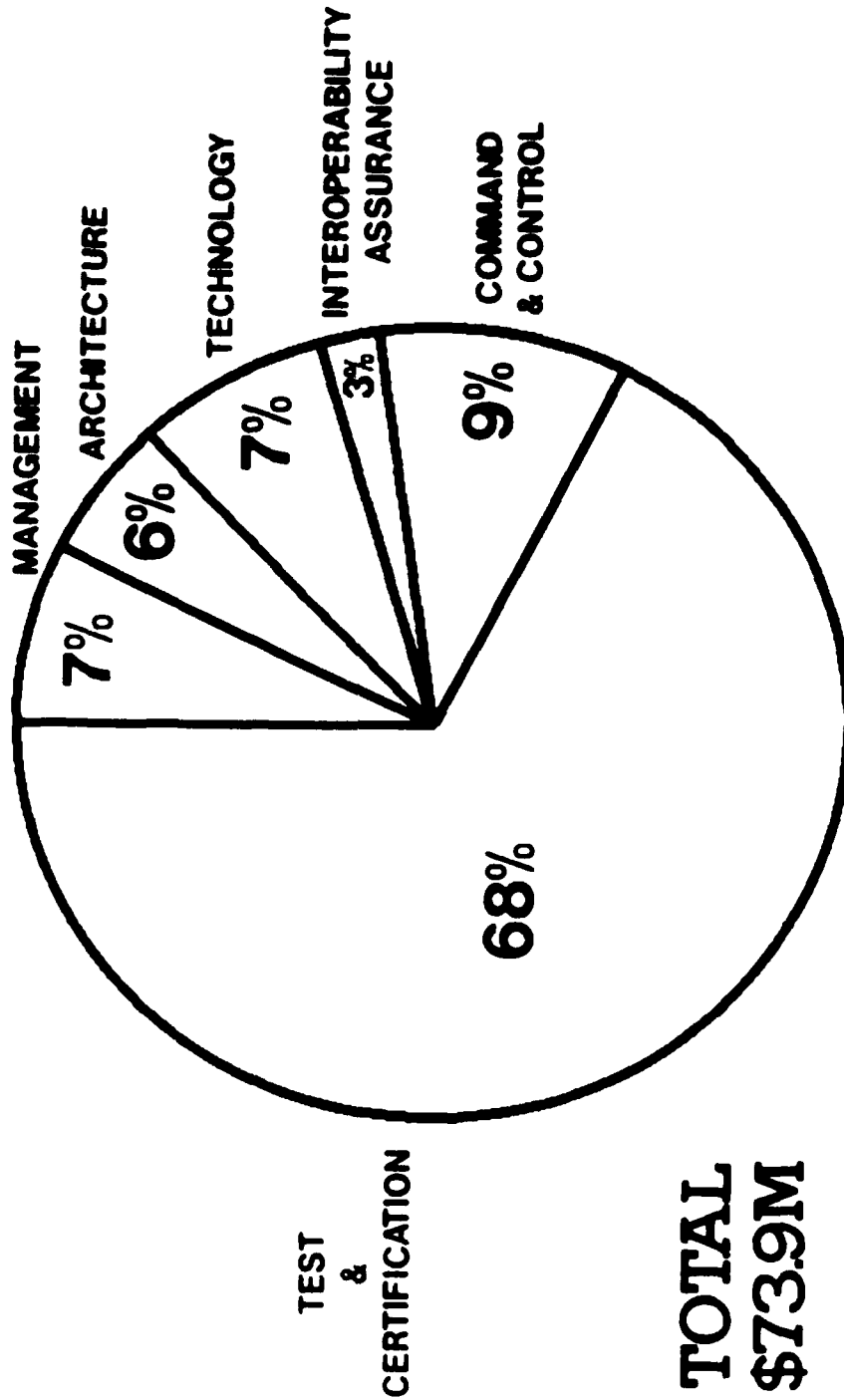


CONTRACTOR UTILIZATION BY FUNCTIONAL AREA - FY88



056-7-FEB 88-RC

BUDGET ALLOCATION BY FUNCTIONAL AREA - FY88



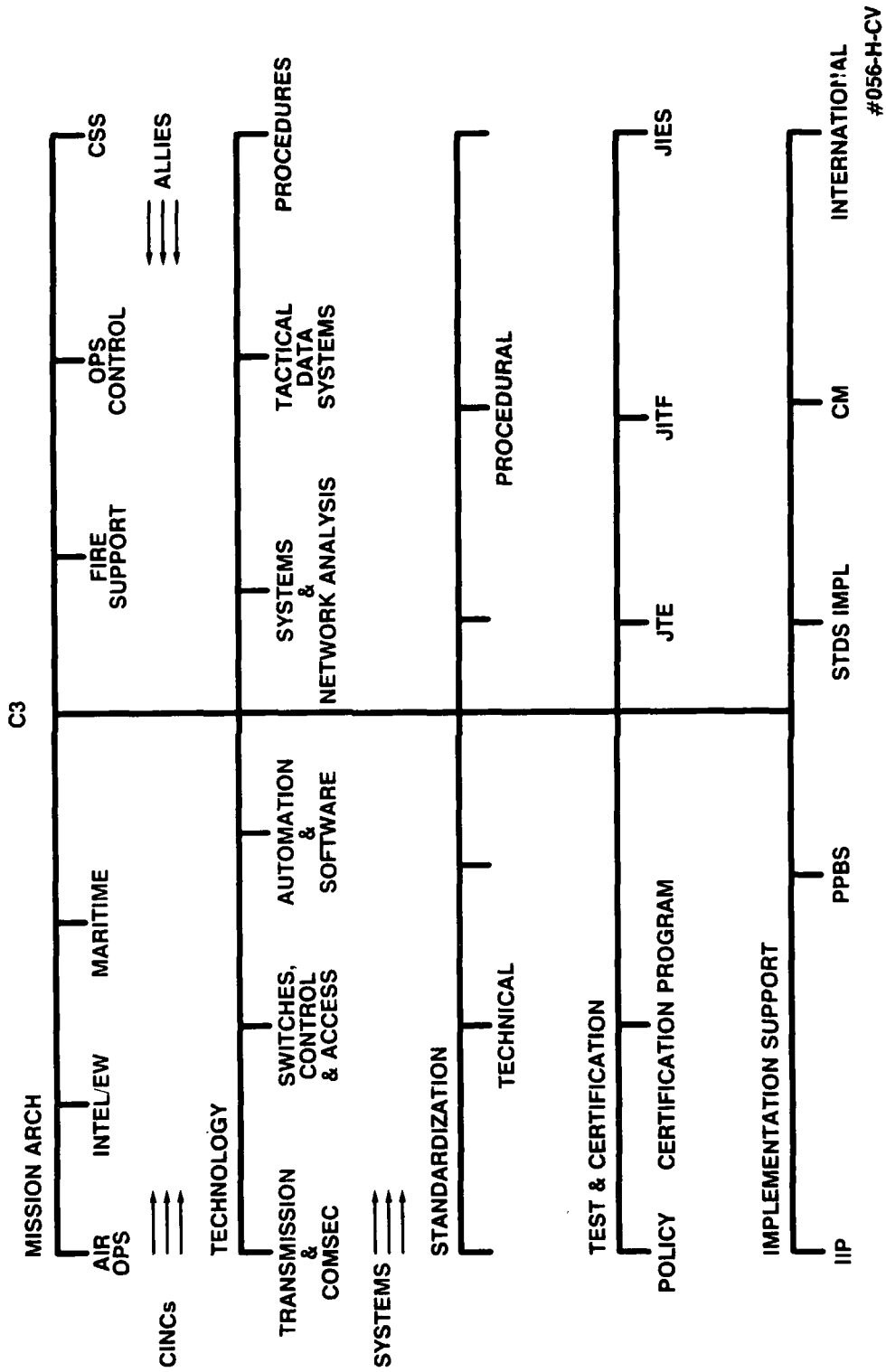
**TOTAL
\$73.9M**

JTC3A IMPACT ON CONTRACTS

JOINT TACTICAL C3 SYSTEM LIFE-CYCLE IMPACT

- REVIEW REQUIREMENTS DOCUMENTS TO ENSURE JOINT INTEROPERABILITY CONSIDERED IN CONJUNCTION WITH EXISTING ARCHITECTURES
- REVIEW DEVELOPMENTAL TEST PLANS TO ENSURE JOINT INTEROPERABILITY STANDARDS IMPLEMENTED
- MONITOR OR CONDUCT TESTS DURING DEVELOPMENT TO ENSURE JOINT INTEROPERABILITY STANDARDS ADHERED TO
- MONITOR OR CONDUCT TESTS OF PRODUCTION MODELS FOR CERTIFICATION FOR JOINT USE
- CONFIGURATION MANAGE AND TEST THROUGH OPERATIONAL LIFE TO ENSURE CONTINUING JOINT INTEROPERABILITY

CONCEPT OF OPERATIONS



ARCHITECTURE

- **FIRST LEVEL ARCHITECTURE**
- **JOINT CONNECTIVITY HANDBOOK**
- **REQUIREMENTS & INTEROPERABILITY DATA BASES**
- **MISSION ARCHITECTURES**
- **CINC ARCHITECTURES**
- **SPECIAL ARCHITECTURES**

ASSESSMENTS

● TECHNOLOGY

- SPECIFIC TECHNOLOGY (e.g., HF)
- TECHNOLOGICAL ISSUES AFFECTING INTEROPERABILITY
- RECOMMENDED IMPROVEMENTS

- TECHNOLOGICAL REFERENCE TUTORIAL

● SYSTEMS

- SPECIFIC C3 SYS. (ONE OR MORE TECHNOLOGIES)(e.g., MSE)
- TECHNICAL, PROCEDURAL, OPERATIONAL ISSUES
- RECOMMENDED IMPROVEMENTS

INTEROPERABILITY ASSURANCE

- **FIVE-YEAR INTEROPERABILITY ASSURANCE PLAN (FYIAP)**
- **TESTING**
 - **PROCEDURAL**
 - **HARDWARE**
 - **TACTICAL/STRATEGIC INTERFACES**
 - **CERTIFICATION**

INTEROPERABILITY ASSURANCE (CONT'D)

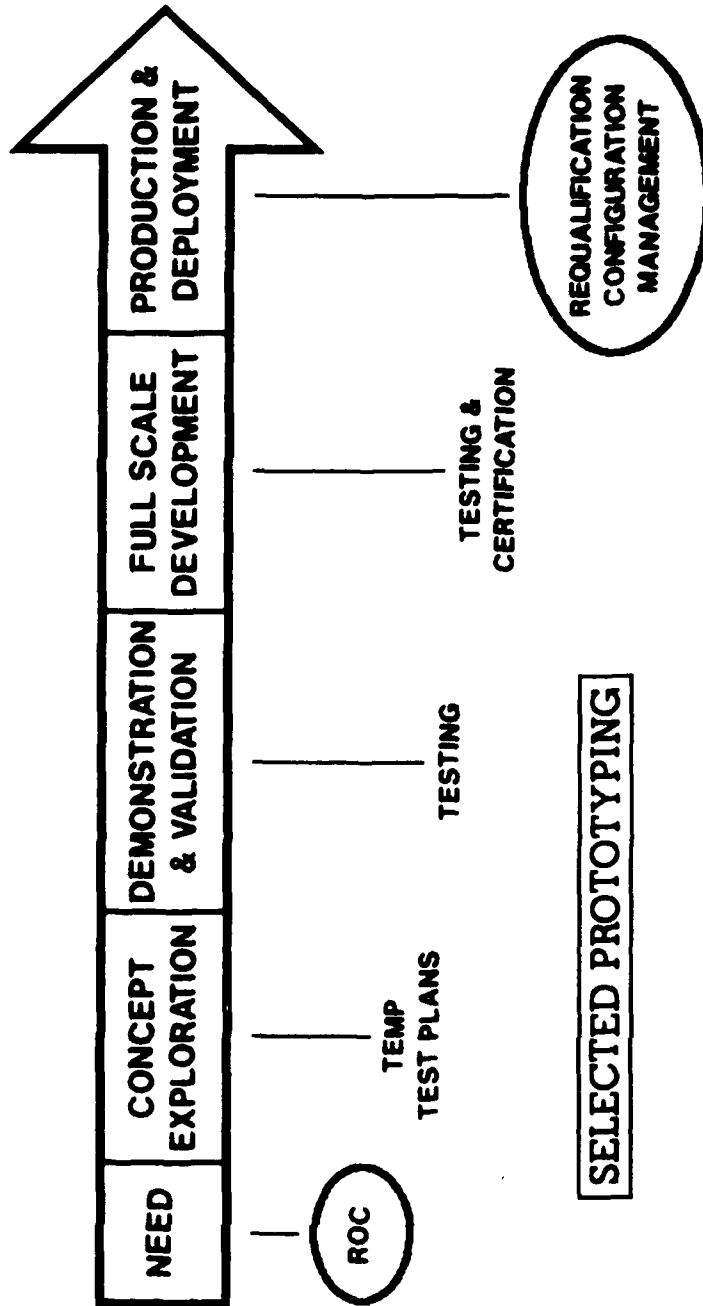
- STANDARDS
 - TECHNICAL
 - MIL STDs
 - INTERFACE SPECIFICATIONS
 - PROCEDURAL
 - COMBINED

- INTEROPERABILITY IMPROVEMENT PROGRAM

JINTACCS

- **MESSAGE TEXT FORMATS (MTFs)**
- **TACTICAL DIGITAL INFORMATION LINKS (TADILs)**
- **CONFIGURATION MANAGEMENT**
- **COMBINED INTEROPERABILITY MANAGEMENT PLAN (CIMP)**

SYSTEM ACQUISITION PROCESS



056-16-FEB 88-RC

MISSION CHALLENGES

- **OVERCOMING PAROCHIALISM - WILLINGNESS TO COMPROMISE**
- **SHORTENING THE STAFFING PROCESS FOR STANDARDS**
- **ACHIEVING TOTAL JOINT PROCEDURAL INTEROPERABILITY**
- **MAKING U.S. INTEROPERABILITY STANDARDS THE COMBINED STANDARDS**
- **OBTAINING FULL C/S/A COOPERATION IN:**
 - **SIMPLIFYING ARCHITECTURE DEVELOPMENT**
 - **PROVIDING TEST AND EVALUATION MASTER PLANS (TEMPS) AND REQUIRED OPERATIONAL CAPABILITIES (ROCs) TO REVIEW**
 - **PROVIDING INTERFACES TO BE CERTIFIED**
 - **INCORPORATING STANDARDS EARLY IN THE DEVELOPING PROCESS**

SUMMARY

JTC3A:

- DEVELOPS ARCHITECTURES
- DEVELOPS AND REVIEWS STANDARDS
- DOES TECHNOLOGY ASSESSMENTS
- CONDUCTS TESTING
- REVIEWS C/S/A REQUIREMENTS, FIELDING PLANS, ETC

TO HELP ENSURE JOINT/COMBINED INTEROPERABILITY
OF TACTICAL C3 SYSTEMS THAT ARE:

- IN BEING
- IN DEVELOPMENT

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAAB07-87-D-C009	JTC3A HQ & NCR SETA	BDM CORP	13.112K	SEP 86 - AUG 88
	<ul style="list-style-type: none"> ● C3 ARCHITECTURES - CINC - MISSION 		7.339K	<u>1ST OPTION</u> SEP 89 - AUG 90
	<ul style="list-style-type: none"> ● TECH ASSESSMENTS - MSE - FIBER OPTICS - SWITCHING 		7.573K	<u>2ND OPTION</u> SEP 90 - AUG 91
	<ul style="list-style-type: none"> ● C2 SYSTEMS - MESSAGE TEXT FORMATS - JOINT USERS HANDBOOK - CENTRAL DATA BASE SYSTEM 		7.834K	<u>3RD OPTION</u> SEP 91 - AUG 92
	<ul style="list-style-type: none"> ● INTEROPERABILITY ASSURANCE - STANDARDS DEVELOPMENT 			TO BE RECOMPETED - ANTICIPATED ANNOUNCEMENT DATE DEC 91

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAAB07-87-C-C282	DESIGN, DEVELOP TEST, INSTALL, SUPPORT AND MAINTAIN THE JOINT INTEROPERABILITY EVALUATION SYSTEM (JIES)	MARTIN MARIETTA, INC.	\$51,582K (33,843K)	<u>PHASE I</u> JUL 87 - FEB 90
			(5,740K)	<u>PHASE II</u> MAR 90 - FEB 91
			(3,936K)	<u>PHASE III</u> MAR 91 - FEB 92
			(8,063K)	INTERMEDIATE PROCESSOR OPTION

056-21-FEB 88-RC

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAAB07-87-C-C300	JIES INDEPENDENT VERIFICATION & VALIDATION AND JITF TECHNICAL/ PROGRAM SUPPORT	INTERMETRICS, INC.	9,091K	SEP 87 - SEP 90 (BASIC)
			5,115K	SEP 90 - SEP 92 (OPTION)

TO BE RECOMPETED AS
PART OF JTC SETA FOLLOW-ON

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAAB07-88-C-C231	JOINT INTERFACE TEST SYSTEM (JITS) MAINTENANCE. PROCEDURAL INTERFACE STANDARDS CONFIGURATION MANAGEMENT (CM) AND JOINT INTERFACE TEST FORCE (JITF) FACILITIES OPERATIONS SUPPORT	NATIONS, INC.	6,293K 2,404K 2,481K	DEC 87 - DEC 89 (BASIC) DEC 89 - DEC 90 (OPTION YR 1) DEC 90 - DEC 91 (OPTION YR 2)

TO BE RECOMPETED AS
PART OF JTC O&M FOLLOW-ON

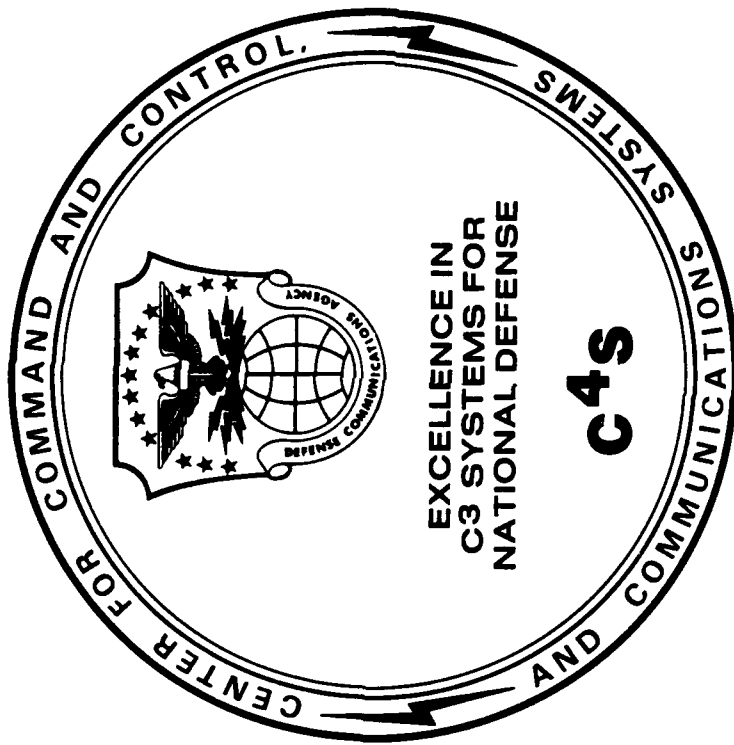
MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DAEA18-88-D-0010	JTE O&M	MANTECH	2.67K	JAN 88 - MAR 88
	<ul style="list-style-type: none"> ● TESTING FACILITY SUPPORT - OPERATE, MAINTAIN, AND REPAIR NETWORK COMMUNICATIONS SYSTEMS - OPERATE, MAINTAIN, AND REPAIR SPECIAL TEST INSTRUMENTATION (ATI) - OPERATE, MAINTAIN, AND REPAIR TESTBED COMMUNICATIONS SYSTEMS 		3.000K	<u>1ST OPTION</u> MAR 88 - MAR 89
	<ul style="list-style-type: none"> ● ADP SUPPORT - OT&E SOFTWARE DEVELOPMENT ON DBMS AND NETWORK OPERATIONS - MAINTAIN AND REPAIR MICROS - ENTRY AND RETRIEVAL OF DATA 		2.900K	<u>2ND OPTION</u> MAR 89 - MAR 90
	<ul style="list-style-type: none"> ● EXERCISE SUPPORT - PUBLISH LESSONS LEARNED REPORT - PUBLISH JOINT COMMUNICATIONS PROCEDURES - KEY MANAGEMENT & COMSEC ISSUES 		2.800K	<u>3RD OPTION</u> MAR 90 - MAR 91
	<ul style="list-style-type: none"> ● TESTING SUPPORT - WRITE TEST DOCUMENTATION 			<u>4TH OPTION</u> MAR 91 - MAR 92

TO BE RECOMPETED -
ANTICIPATED ANNOUNCEMENT
DATE AUG 91

MAJOR JTC3A CONTRACTUAL EFFORTS CURRENT (CONTINUED)

<u>CONTRACT NUMBER</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DEA 18-83-C-0048	JOINT TEST ELEMENT SETA	MERDAN CORP.	2.500K	JUN 83 - JUL 88
	<ul style="list-style-type: none"> ● TESTING SUPPORT <ul style="list-style-type: none"> - DEVELOPING PLANS AND PROCEDURES - ASSISTING IN EXECUTION - ANALYSIS OF FUTURE TEST REQUIREMENTS ● TEST DATA MANAGEMENT <ul style="list-style-type: none"> - AUTOMATED TEST DATA REPOSITORY - DEVELOP DATA COLLECTION PROCEDURES ● PLANNING AND STUDIES <ul style="list-style-type: none"> - INTEGRATED LOGISTIC SUPPORT 			TO BE RECOMPETED - ANTICIPATED ANNOUNCEMENT DATE FEB 88



#053-A-CV

OUTLINE

- ORGANIZATION
- RESOURCES
- PROGRAM HIGHLIGHTS
- FUTURE CHALLENGES

THE ORGANIZATIONAL EVOLUTION OF C4S

PLANNING ENGINEERING

1962	NMCS SYSTEM ENGINEER
1970	MEECN SYSTEM ENGINEER
1971	DCS ARCHITECTURE
1973	MILSATCOM SYSTEMS ARCHITECTURE
1975	WWMCCS SYSTEMS ENGINEER
1979	STRATEGIC CONNECTIVITY PROGRAM
1981	PLANNING AND SYSTEM INTEGRATION
1983	COMMAND AND CONTROL SYSTEM ORGANIZATION
1985	CREATION OF C4S

#053-A-CV

THE C4S MISSION

- **PROVIDE PLANNING, SYSTEM ENGINEERING, AND TEST/EVALUATION SUPPORT TO OSD, JCS, AND CINC'S FOR MAJOR C3 SYSTEMS INCLUDING:**
 - **NATIONAL MILITARY COMMAND SYSTEM**
 - **C3 SYSTEMS FOR STRATEGIC NUCLEAR FORCES**
 - **C3 SYSTEMS OF THE CINC'S**
 - **DEFENSE-WIDE C3 SYSTEMS**

- **PROVIDE TECHNICAL AND MANAGEMENT ADVICE REGARDING INTEGRATION OF THESE SYSTEMS INTO THE WORLDWIDE MILITARY C2 SYSTEM**

OBJECTIVES

- **BECOME A LEADER IN ORCHESTRATING THE EVOLUTION OF AN INTEGRATED C3 SYSTEM**
 - **CONSISTENT WITH NATIONAL POLICY**
 - **SUPPORTS COMBAT FORCES**
 - **REFLECTS REALISTIC BUDGET CONSTRAINTS**

- **BECOME A CENTER OF EXCELLENCE IN C3 SYSTEMS**
 - **QUANTITATIVE METHODS**
 - **INNOVATIVE CONCEPTS**
 - **LEADING EDGE TECHNOLOGY**

AREAS OF PRIMARY INTEREST

DOD C3 PROGRAM

STRATEGIC
SYSTEMS

THEATER
SYSTEMS

COMMAND CENTER SYSTEMS

SATELLITE COMM SYSTEMS

DEFENSE COMM SYSTEM

SCOPE OF ACTIVITIES

	CMD CTR	STRAT	THEATER	SAT COM	DCS
PLAN/ARCH	X	X	X	X	X
ENG/ ADV DEV	X	X	/	/	
TEST/EVAL	X	X	/		

#053-A-CV

OUTLINE

- ORGANIZATION

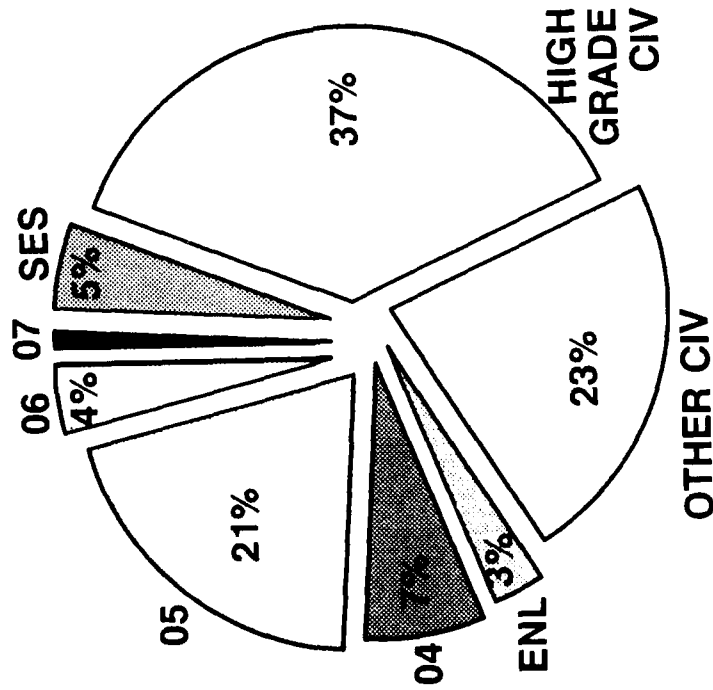
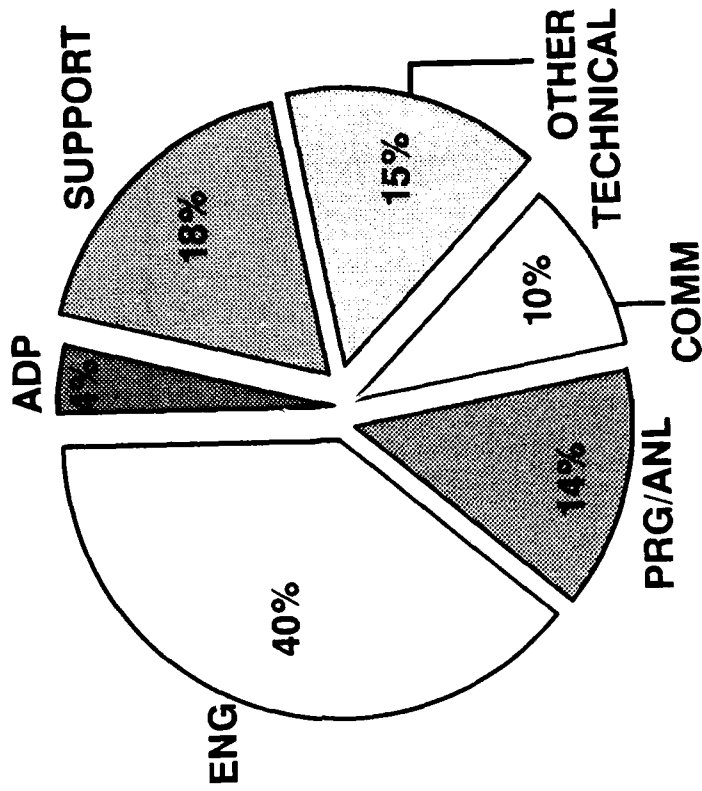


- RESOURCES

- PROGRAM HIGHLIGHTS

- FUTURE CHALLENGES

STAFF DISTRIBUTION



BY SKILL

BY GRADE

#053-A-CV

TRENDS IN THE C4S GOALS

1985

FORMATION OF A COHERENT
STRATEGIC CONNECTIVITY
IMPROVEMENT PROGRAM

REVITALIZATION OF NMCS
ENGINEERING PROGRAM

DEVELOPMENT OF AN
INTEGRATED PROGRAM OF C3
SUPPORT FOR EUROPE AND
PACIFIC

DEVELOPMENT OF A COORDINATED
PROGRAM OF DEFENSE-WIDE
ARCHITECTURE AND PLANNING TO
SUPPORT INVESTMENT DECISIONS

1988

EXTEND TO NON-STRATEGIC
NUCLEAR FORCES AND STRATEGIC
DEFENSE

EXPAND CINC COMMAND CENTER
PROGRAM AND EXTEND TO
NATIONAL LEVEL

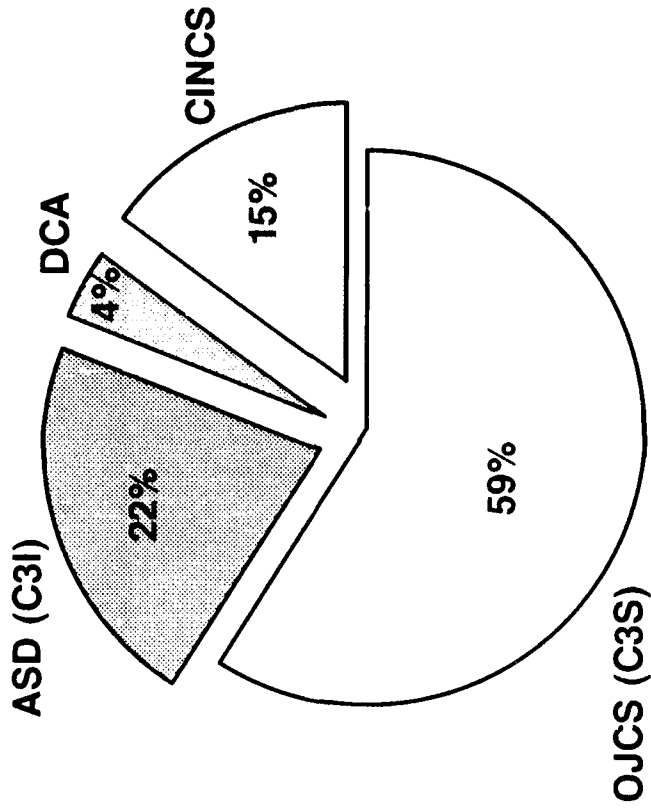
EXTEND TO OTHER CINCS,
E.G., CENTCOM, SOUTHCOM, AND
TRANSCOM

REFINE LEVEL OF DETAIL
TO FACILITATE INTEGRATION OF
INFORMATION SYSTEMS

#053-A-CV

DISTRIBUTION OF C4S CONTRACTUAL SUPPORT EFFORT

(BY CUSTOMER)

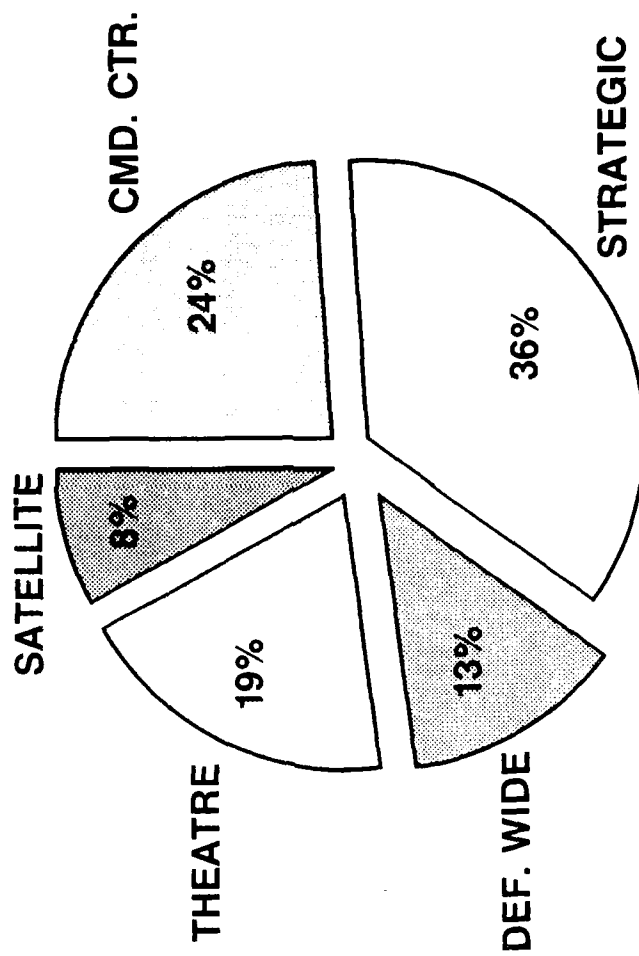


TOTAL FY88 FUNDS \$39 M

#053-A-CV

DISTRIBUTION OF C4S CONTRACTUAL SUPPORT EFFORT

(BY FUNCTION AREA)



TOTAL FY88 FUNDS \$39 M

#053-A-CV

SOME MANAGEMENT ACCOMPLISHMENTS

- **STREAMLINING OF HIRING PROCESS**
- **RECRUITING CAMPAIGN TO REDUCE VACANCY RATE**
- **RESTRUCTURING OF CONTRACT PROCEDURES/RESPONSIBILITIES**
- **STRENGTHENING OF PROPOSAL EVALUATION PROCESS**
- **15 COMPETITIVE ACTIONS PROCESSED IN 1986/1987**
- **DEVELOPMENT OF STRUCTURED PROCESS FOR PROJECT REVIEW**
- **MECHANISMS FOR COORDINATION/INTEGRATION OF ACTIVITIES**
- **RESTRUCTURING OF PROGRAM**

C4S MAJOR CONTRACTUAL EFFORTS

	88	89	89	89	90
	APR	MAY	JUN	JUL	AUG
	SEP	OCT	NOV	DEC	JAN
	FEB	MAR	APR	MAY	JUN
	JUL	AUG	SEP	OCT	NOV
	DEC	JAN	FEB	MAR	APR
COMMAND CENTER SYSTEMS					
ABNCP TECH SPT. 86-C-0082					
CMD CTR IST&E 86-C-0112					
CMD CTR SETA 86-C-0111					
CMD CTR SETA 87-C-0144					
NMCS BASELINE SPT 86-C-0114					
FIXED CMD CTR SPT 87-C-0038					
ABNCP T&E SPT 87-C-0067					
STRATEGIC SYSTEMS					
STRATEGIC C3 OPNT&E 87-C-0030					
STRATEGIC C3 SPT 87-C-0033					
C3 ARCH STRAT OPNS 87-R-0159					
MILITARY SATELLITE COMMUNICATIONS					
MILSATCOM SETA 87-C-0024					
DEFENSE-WIDE SYSTEMS					
C4S EUROPE T&E SPT 87-C-0077					
GLOBAL ASSESS 87-C-0079					
DEFENSE-WIDE SETA 88-C-0022					
THEATER ARCH SETA 87-R-0072					

PERIOD OF PERFORMANCE/CURRENT CONTRACT TERM
RECOMPETE LEAD-TIME

#053-A-CV

OUTLINE

- ORGANIZATION

- RESOURCES

-  PROGRAM HIGHLIGHTS

- FUTURE CHALLENGES

#053-A-CV

MAJOR PROGRAM ACCOMPLISHMENTS

- **REVITALIZATION OF NMCS ENGINEERING AND EXTENSION TO EXTENSION TO CINC'S COMMAND CENTER**
- **FORMATION OF A COHERENT STRATEGIC CONNECTIVITY IMPROVEMENT PROGRAM**
- **DEVELOPMENT OF AN INTEGRATED PROGRAM OF SUPPORT FOR EUROPE AND THE PACIFIC**
- **STRENGTHENING OF DEFENSE WIDE PLANNING ACTIVITIES**

JCS SUPPORT: NMCS/CINC COMMAND CENTERS

REVITALIZATION OF NMCS ENGINEERING EXTENSION TO CINC COMMAND CENTERS

BEFORE

- LIMITED DESCRIPTION OF NMCS OBJECTIVE SYSTEM
- REACTIVE ENGINEERING FOR AD HOC PROJECTS
- UNCOORDINATED COMMAND CENTER UPGRADE PROGRAMS

NOW

- NMCS MP
- NMCS ENGINEERING PLANS
- TECH PROTOTYPING & DEMONSTRATION
- MODEL COMMAND CENTER
- DESIGN HANDBOOK
- TIGER TEAMS
- INFORMATION EXCHANGE

IMPACT

- BASIS FOR NMCS BUDGET ISSUES
- SYSTEMATIC INTEGRATION OF 50 NMCS IMPROVEMENT PROGRAMS
- ORCHESTRATION OF 20 DoD COMMAND CENTER UPGRADES

#053-A-CV

JCS SUPPORT: STRATEGIC CONNECTIVITY

FORMATION OF A COHERENT STRATEGIC CONNECTIVITY IMPROVEMENT PROGRAM

BEFORE	NOW	IMPACT
<ul style="list-style-type: none"> • COM PROCEDURES FOCUSED ON EAM 	<ul style="list-style-type: none"> • EXPANSION TO FORCE MANAGEMENT 	<ul style="list-style-type: none"> • OPTIMIZE CURRENT CAPABILITY <ul style="list-style-type: none"> - EAM - FM - TWAA - CONF
<ul style="list-style-type: none"> • A FEW BIG TESTS 	<ul style="list-style-type: none"> • RESTRUCTURED MULTILEVEL T&E PROGRAM 	<ul style="list-style-type: none"> • REALIZE FULL POTENTIAL OF PROGRAMMED IMPROVEMENTS
<ul style="list-style-type: none"> • CHRONIC COM PROBLEMS • AD HOC ENGINEERING 	<ul style="list-style-type: none"> • DIAGNOSTIC PROGRAM • END-TO-END SYSTEM ENGINEERING STUDIES • STRATEGIC CONNECTIVITY ENGINEERING PLAN 	<ul style="list-style-type: none"> • QUANTITATIVE AND OPERATIONAL SUPPORT FOR BUDGET ISSUES
<ul style="list-style-type: none"> • SAND BOX DEVELOPMENT 	<ul style="list-style-type: none"> • STANDARDS DEVELOPMENT • TRANSITION TO SERVICES 	
<ul style="list-style-type: none"> • FEW QUANT MEAS FOR PLANNING 	<ul style="list-style-type: none"> • STRATEGIC CONNECTIVITY MASTER PLAN 	

#053-A-CV

THEATER CINC SUPPORT

DEVELOPMENT OF AN INTEGRATED AND FORWARD-LOOKING PROGRAM OF SUPPORT FOR EUROPE AND THE PACIFIC

BEFORE

- FIELD OFFICES POORLY COORDINATED
- NSNF C3 SYSTEM ENGR LIMITED
- NO MECHANISM FOR EVAL OF COMM SYSTEM
- NO STRATEGY FOR RATIONALIZATION
- WEAK COUPLING WITH INTELL
- NATO PLANNING VERY WEAK

NOW

- C4S-EUR FORMED
- NSNF C3 ENG/PLAN REVITALIZED
- THEATER COMM ARCHITECTURE
- EMERGING PROG FOR RATIONALIZATION
- ESTABLISHED INTELL INTERFACE
- MOA PLANNING INITIATIVES

IMPACT

- EUCOM-NATO SYNERGY
- SURV CMD CTRs & IMPROVED CONNECTIVITY
- INTEGRATION OF COMM PROGRAMS INTO A WARTIME SYSTEM
- INTEGRATED C3I VIEW
- CINC's USE OF MOA FOR BUDGET

#053-A-CV

OSD/JCS/CINC SUPPORT: DEFENSE-WIDE C3 ARCHITECTURE AND PLANNING

DEVELOPMENT OF A COORDINATED PROGRAM OF ARCHITECTURE, PLANNING AND ANALYSIS TO ADDRESS C3 INVESTMENT, BUDGET AND PROGRAMMATIC ISSUES

BEFORE

- NUC WPNS MP
- NSNF C3 ARCH
- MILSATCOM
- WORLD WIDE DIGITAL SYS. ARCHITECTURE
- NATO C3
- INTERNATIONAL C3

NOW


- GLOBAL ASSESSMENT
- C3 ARCH & ACQ PLAN
- INTEGRATED MILSATCOM ARCHITECTURE
- DCS WEST HEM ARCHITECTURE
- TECHNOLOGY ASSESSMENT
- C3I INTEGRATION

IMPACT

- INVESTMENT STRATEGY CONSISTENT W/NAT POLICY
- INTEGRATED EVOLVING C3I SYSTEM
- BEST EXPENDITURE OF FUNDS

#053-A-CV

OUTLINE

- ORGANIZATION
- RESOURCES
- PROGRAM HIGHLIGHTS
-  FUTURE CHALLENGES

#053-A-CV

TRENDS IN THE C3 ENVIRONMENT

- **EVOLVING STRATEGY AND FORCE STRUCTURE**
- **PRIOR GROWTH IN THE C3 PROGRAM**
- **FUTURE LEVELING OFF OF C3 BUDGET**
- **INCREASED ROLE OF THE CINC'S**
- **EMPHASIS ON RAPID PROTOTYPING**
- **ACKNOWLEDGED NEED FOR SYSTEM INTEGRATOR**
- **DIMINISHING DCA/C4S RESOURCES**

#053-A-CV

ISSUES/OPPORTUNITIES

- **IMPACT OF BUDGET CUTS ON PLANNED ARCHITECTURE**
- **DEGREE OF STANDARDIZATION OF INFORMATION SYSTEMS**
- **ROLE OF C4S IN RAPID PROTOTYPING AND EVALUATION**
- **LIMITATIONS IN C4S RESOURCES**
- **QUALITY OF CONTRACTOR ANALYTICAL SUPPORT**

SUMMARY

- **CENTER OF C3 EXPERTISE HAS BEEN CREATED**
- **COMPREHENSIVE PROGRAMS HAVE BEEN FORMULATED**
- **SIGNIFICANT CONTRIBUTIONS ARE BEING MADE**
 - **MODERNIZATION OF COMMAND CENTERS**
 - **IMPROVEMENT IN STRATEGIC CONNECTIVITY**
 - **INSTITUTIONALIZATION OF MISSION ORIENTED PLANNING**
- **CHANGES IN C3 ENVIRONMENT ARE CREATING ADDITIONAL DEMANDS AND OPPORTUNITIES**
- **ACTIVE INDUSTRY PARTICIPATION IS THE KEY TO SUCCESS**

#053-A-CV

SOME NEW OR EMERGING EFFORTS

- **THE DCS ARCHITECTURE FOR THE 21ST CENTURY**
- **THE MILSATCOM ARCHITECTURE FOR THE 21ST CENTURY**
- **THE JCS C2 MASTER PLAN**
- **NMCS FUSION CENTER FOR FORCE LOCATION/DISPOSITION**
- **COMMAND CENTER MODULAR BUILDING CONCEPT**
- **THE TRANSCOM C3 ARCHITECTURE**
- **THE NATIONAL SECURITY INFORMATION & SITUATION
MANAGEMENT SYSTEM ARCHITECTURE**
- **NEW RAPID PROTOTYPING TEST AND EVALUATION ACTIVITIES**

#053-A-CV

SELECTED C4S PROJECTS

ONGOING ACTIVITIES WHERE CONTACT MAY HELP

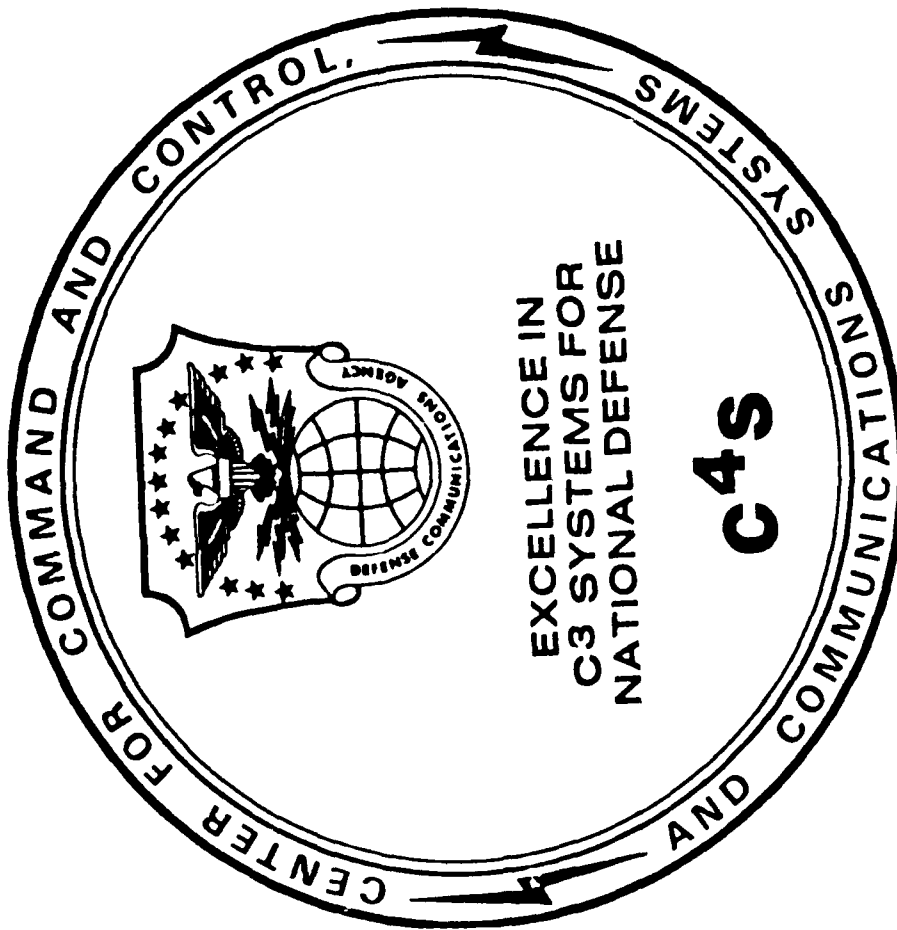
- **COMMAND CENTER IMPROVEMENT PROGRAM**
- **METEOR BURST COMMUNICATIONS**
- **MILSATCOM ARCHITECTURE**
- **21ST CENTURY DCS ARCHITECTURE**

NEW PROCUREMENTS

- **USTRANSCOM C3 ARCHITECTURE**

AGENDA FOR TOMORROW

- **COMMAND CENTER IMPROVEMENT PROGRAM**
- **METEOR BURST COMMUNICATION STANDARDS**
- **MILSATCOM ARCHITECTURE FOR 21ST CENTURY**
- **DCS ARCHITECTURE FOR THE 21ST CENTURY**
- **USCINCTRANSCOM C3 ARCHITECTURE**



APR 89 - APR 90

CENTER FOR C3 SYSTEMS
STRATEGIC SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(FUTURE)

<u>DESCRIPTION</u>	<u>VALUE RANGE</u>	<u>ANTICIPATED ANNOUNCEMENT DATE</u>	<u>PERIOD OF PERFORMANCE</u>
C3 ARCHITECTURE FOR STRATEGIC OPERATIONS	ABOVE \$5M	OCTOBER 1987	MAY 88 - MAY 91

*ARCHITECTURAL STUDY SUPPORT

*PROBLEMS IN C2 ARCHITECTURES

*ANALYSIS OF C3 SYSTEMS SUPPORTING
SSBN

*CINC SUPPORT REQUIREMENTS

CENTER FOR C3 SYSTEMS
STRATEGIC SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-85-C-0148	C3 ARCHITECTURE FOR STRATEGIC OPERATIONS - SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE * ANALYSIS, EVALUATION, AND INTEGRATION OF C3 FOR OFFENSIVE FORCES * ANALYSIS, EVALUATION, AND INTEGRATION OF C3 FOR DEFENSIVE FORCES * ANALYSIS, EVALUATION, AND INTEGRATION OF C3 TO SUPPORT NCA, JCS, AND THE CINCS * STRATEGIC C3 INTEGRATION AND PLANNING	TITAN	\$ 1.95M	MAR 87 - JUL 88

CENTER FOR C3 SYSTEMS
STRATEGIC SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0030	TEST AND EVALUATION FOR STRATEGIC CONNECTIVITY	ELECTROSPACE SYSTEMS INC. (ESI)	\$ 3.26M	1ST YR OPTION DEC 87 - DEC 88
	* EVALUATE C3 SYSTEM PERFORMANCE IN OJCS OPERATIONAL EXERCISES		\$ 3.42M	2ND YR OPTION DEC 88 - DEC 89
	* CONDUCT FAULT ISOLATION/TECHNICAL TESTS			
	* PROVIDE AIRBORNE COMMAND POST TABLE TOP EXERCISE SUPPORT			
	* WARTIME INFORMATION FLOW ANALYSIS			

CENTER FOR C3 SYSTEMS
STRATEGIC SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0033	SYSTEM CONNECTIVITY SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE	SAIC	\$ 2.40M	BASE YEAR JAN 87 - JAN 88
	* QUANTITATIVE ASSESSMENTS AND ANALYSES OF STRATEGIC C3 CAPABILITIES		\$ 2.93M	1ST YR OPTION JAN 88 - JAN 89
	* SIMULATION AND MODELING SUPPORT FOR CONNECTIVITY EVALUATIONS		\$ 3.91M	2ND YR OPTION JAN 89 - JAN 90
	* ENGINEERING STUDIES AND ANALYSES FOR THE C3 REVIEW COUNCIL			
	* DEVELOP SYSTEM ENGINEERING PLANS			

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTORATE
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-86-C-0082	ABNCP ENGINEERING AND TECHNICAL SUPPORT	ESI	\$.6M	1ST YR OPTION AUG 87 - AUG 88
	* SECURE VOICE REPLACEMENT PROGRAM		\$.5M	2ND YR OPTION AUG 88 - AUG 89
	* KG-84 TRANSITION ENGINEERING AND TECHNICAL SUPPORT			
	* SUPER HIGH FREQUENCY GROUND ENTRY POINT ENGINEERING SPT			
	* ABNCP ENHANCEMENT PLANS			
	* WABNRES C3 SYSTEM HANDBOOK			

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTORATE
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-86-C-0111	COMMAND CENTER SYSTEMS RESEARCH AND DEVELOPMENT	BOOZ-ALLEN-HAMILTON	\$ 1.0M	1ST YEAR OPTION SEP 87 - SEP 88
*	NMCS WARNING PROGRAMS		\$ 1.0M	2ND YEAR OPTION SEP 88 - SEP 89
*	NMCS WARNING SYSTEMS			
*	NMCS WARNING INFORMATION REQUIREMENTS			
*	NMCS STRATEGIC INFORMATION SYSTEMS ENGINEERING AND DEVELOPMENT			
*	COMMAND CENTER IMPROVEMENT PROGRAM: INFORMATION RESOURCES			
*	COMMAND CENTER IMPROVEMENT PROGRAM: MODEL COMMAND CENTER			

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTORATE
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-86-C-0112	COMMAND CENTER SYSTEMS TEST AND EVALUATION	ESI	\$.7M	1ST YEAR OPTION SEP 87 - SEP 88
	* NMCS WARNING INFORMATION SYSTEMS		\$. .7M	2ND YEAR OPTION SEP 88 - SEP 89
	* NMCS STRATEGIC INFORMATION SYSTEMS			

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTORATE
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-86-C-0114	NMCS BASELINE SUPPORT	RMS	\$.3M	1ST YEAR OPTION OCT 87 - OCT 88
	* IDENTIFICATION AND ANALYSIS OF IMPROVEMENTS TO THE NMCS		\$.3M	2ND YEAR OPTION OCT 88 - OCT 89

* ANNUAL UPDATE OF THE NMCS
"SUMMARY OF CURRENT
IMPROVEMENTS"

CENTER FOR C3 SYSTEMS
COMMAND CENTER SYSTEMS DIRECTION
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0144	COMMAND CENTER SYSTEMS SETA OPERATIONS AND MAINTENANCE	BOOZ ALLEN - HAMILTON	\$.9M	1ST YEAR OPTION SEP 87 - SEP 88
	* CRISIS COORDINATION CENTER SUPPORT		\$.8M	2ND YEAR OPTION SEP 88 - SEP 89
	* NMCC SUPPORT			
	* ANMCC SUPPORT			
	* NATIONAL INTELLIGENCE CENTER SUPPORT			
	* COMMAND CENTER IMPROVEMENT PROGRAM: FIELD ENGINEERING			

CENTER FOR C3 SYSTEMS
 COMMAND CENTER SYSTEMS DIRECTORATE
 CONTRACTUAL EFFORTS
 (CURRENT)

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-87-C-0038	NMCS/WWMCCS SUPPORT OPERATIONS AND MAINTENANCE	BAH	\$ 1.0M	BASE YEAR APR 87 - APR 88
*	NMCC CONFIGURATION MGMT CONTROL CAPABILITY DEVELOPMENT		\$.7M	1ST YR OPTION APR 88 - APR 89
*	NMCC UPGRADE AND MODERNIZATION		\$.8M	2ND YR OPTION APR 89 - APR 90
*	ANMCC HEMP HVAT MGMT ENGINEERING PLAN			
*	ANMCC/SITE R POWER SYSTEMS MGMT PLAN			
*	NMCS COMMAND CENTER ENGINEERING SUPPORT			
*	U&S COMMAND WWMCCS FIELD ENGINEERING SUPPORT			

CENTER FOR C3 SYSTEMS
 COMMAND CENTER SYSTEMS DIRECTORATE
 CONTRACTUAL EFFORTS
 (CURRENT)

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-87-C-0067	ABNCP ENGINEERING AND TECHNICAL SUPPORT	ESI	\$.7M	BASE YEAR APR 87 - APR 88
*	NEACP MODERNIZATION		\$.8M	1ST YEAR OPTION APR 88 - APR 89
-	VOICE SYSTEMS INTEGRATION/ SWITCHING			
-	TRSC/SCP CONNECTIVITY			
-	NEACP COMMUNICATIONS SYSTEMS INTERGRATION STUDY		\$.7M	2ND YEAR OPTION APR 89 - APR 90
*	WWABNCP MODERNIZATION			
-	EC-135C COMMUNICATIONS SYSTEMS INTEGRATION STUDY			
-	SAC ADP QOT&E PLAN			
-	WWABNCP/AF-1 COMMUNICATIONS SYSTEMS INTEGRATION STUDY			
*	SPECIAL AIR MISSION MODERNIZATION			
-	AF-1 COMMUNICATIONS INTEGRATION STUDY			

AD-A195 551

AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS
ASSOCIATION) SYMPOSIUM (2ND..(U) DEFENSE COMMUNICATIONS
AGENCY ARLINGTON VA APR 88

3/3

UNCLASSIFIED

F/G 25/3

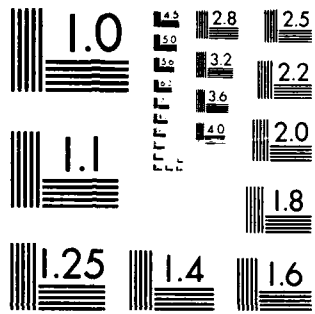
NL

DCSO

757

DN

11111



CENTER FOR C3 SYSTEMS
 DEFENSE WIDE SYSTEMS DIRECTORATE
 MAJOR CONTRACTUAL EFFORTS
 (FUTURE)

DESCRIPTION	VALUE RANGE	ANTICIPATED ANNOUNCEMENT DATE	PERIOD OF PERFORMANCE
TECHNICAL SUPPORT FOR SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE *LONG RANGE COMMUNICATIONS ARCHITECTURE AND PLANNING *DEFENSE-WIDE C2 ARCHITECTURE	ABOVE \$3M	MAY 1990	DEC 90 - DEC 93

CENTER FOR C3 SYSTEMS
DEFENSE-WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-83-C-0036	SYSTEMS ENGINEERING & TECHNICAL ASSISTANCE (SETA)	BOOZ-ALLEN & HAMILTON	\$14.8M	DEC 86 - DEC 87
	* USEUCOM TCA			
	* US/NATO ALLIED TECHNICAL SUPPORT FOR ASD (C3I)			
	* USPACOM THEATER C3 ARCHITECTURE			

CENTER FOR C3 SYSTEMS
DEFENSE WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-87-C-0077	DCA/C4S EUROPE ON SITE SUPPORT	TITAN	.8M	BASE YEAR APR 87 - APR 88
	* USCINC EUROPE C2 MASTER PLAN		\$.6M	1ST YR OPTION APR 88 - APR 89
	* USEUCOM LONG-TERM ADP PLANNING		\$.6M	2ND YR OPTION APR 89 - APR 90
	* USEUCOM LOGISTICS C2 ANALYSES			

CENTER FOR C3 SYSTEMS
DEFENSE WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0079	GLOBAL ASSESSMENT SUPPORT	SPC	\$ 1.1M	BASE YEAR JUL 87 - JUN 88
	* C2 GLOBAL ASSESSMENT SUPPORT		\$.7M	1ST YR OPTION JUL 88 - JUN 89
	* EW MISSION AREA ANALYSIS		\$.9M	2ND YR OPTION JUL 89 - JUN 90
	* SOUTHCOM C2 MASTER PLAN			
	* C2 MODELING			
	* DEVELOPMENT OF THE JOINT DECISION SUPPORT SYSTEM			

CENTER FOR C3 SYSTEMS
 DEFENSE WIDE SYSTEMS DIRECTORATE
 MAJOR CONTRACTUAL EFFORTS
 (CURRENT)

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-87-C-0083	WARTIME HEADQUARTERS EFFICIENTNESS ANALYSIS (HEAT) * THEORY OF HEAT * MEASUREMENT TOOL * FRAMEWORK FOR GENERALIZING TEST RESULTS * HEAT ISSUES * DESIGN GUIDELINES FOR HEADQUARTERS	ALPHATECH	\$ 2.5M	JUL 87 - JUL 90

CENTER FOR C3 SYSTEMS
DEFENSE-WIDE SYSTEMS DIRECTORATE
MAJOR CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-88-C-0022	TECHNICAL SUPPORT FOR SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE	BOOZ-ALLEN-HAMILTON	\$ 1.6M	BASE YEAR DEC 87 - DEC 88
	* LONG RANGE COMMUNICATIONS ARCHITECTURE & PLANNING		\$ 1.0M	1ST YR OPTION DEC 88 - DEC 89
	* DEVELOPMENTAL ENGINEERING		\$.9M	2ND YR OPTION DEC 89 - DEC 90
	* DEFENSE-WIDE C2 ARCHITECTURE			

CENTER FOR C3 SYSTEMS
 DEFENSE WIDE SYSTEMS DIRECTORATE
 MAJOR CONTRACTUAL EFFORTS
 (CURRENT)

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD OF PERFORMANCE
DCA100-88-C-0000	SYSTEMS ENGINEERING & TECHNICAL ASSISTANCE SUPPORT		\$ 3.0M	BASE YEAR JAN 88 - DEC 88
	* USEUCOM THEATER COMMUNICATIONS ARCHITECTURE		\$ 3.8M	1ST YR OPTION JAN 89 - DEC 89
	* USPACOM THEATER C3 ARCHITECTURE		\$ 2.9M	2ND YEAR OPTION JAN 90 - DEC 90

* TECHNICAL SUPPORT TO ASD(C3I)
 JCS/MCEB ON US/NATO/ALLIED C3

* WORLDWIDE NSNF C3 ARCHITECTURE

CENTER FOR C3 SYSTEMS
MILITARY SATELLITE COMMAND SYSTEMS
CONTRACTUAL EFFORTS
(CURRENT)

<u>CONTRACT NO.</u>	<u>DESCRIPTION</u>	<u>INCUMBENT</u>	<u>VALUE</u>	<u>PERIOD OF PERFORMANCE</u>
DCA100-87-C-0024	MILSATCOM SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE	M/A-COM	\$ 2.0M	1ST YEAR OPTION DEC 87 - DEC 88
*	MILSATCOM SYSTEMS ARCHITECTURE ENHANCEMENTS/ALTERNATIVES		\$ 2.0M	2ND YEAR OPTION DEC 88 - DEC 89
*	PHYSICAL & ELECTRONIC SURVIVABILITY OF SATCOM SYSTEMS			
*	NATO SATELLITE COMMUNICATIONS COMMITTEE TECHNICAL SUPPORT			
*	ADVANCED MILSATCOM TECHNOLOGY			
*	COMMERCIAL SATCOM INTER-OPERABILITY			
*	DSCS III-C ANALYSIS			

**OVERVIEW OF
DECCO
DEFENSE COMMERCIAL
COMMUNICATIONS OFFICE
SCOTT AFB, IL**

**PRESENTER:
J. W. PENNY, COL. USAF
COMMANDER
DECCO**

OVERVIEW

- **MISSION/ORGANIZATIONAL STRUCTURE**
- **MAJOR CUSTOMER/REQUIREMENTS FLOW**
- **TYPES OF SERVICE**
- **MAJOR POLICIES/PROCEDURES**
- **CONTRACT METHODS/MEDIA**
- **IMPACTS/CHALLENGES**

DECCO BACKGROUND

- **CENTRAL LEASING ACTIVITY**
- **RESPONSIBLE FOR PRIVATE LINE CIRCUITS, FACILITIES AND EQUIPMENT**
- **ANNUAL EXPENDITURES OF OVER \$1.2 BILLION**
- **APPROXIMATELY 91,000 CSAs**
- **20 MILLION MILES OF CIRCUITRY**
- **REQUIREMENTS - AVERAGE PER MONTH**
 - **600 STARTS**
 - **470 DISCONNECTS**
 - **450+ CHANGES**

METHODS OF SOLICITATION MUST CHANGE WITH ENVIRONMENT

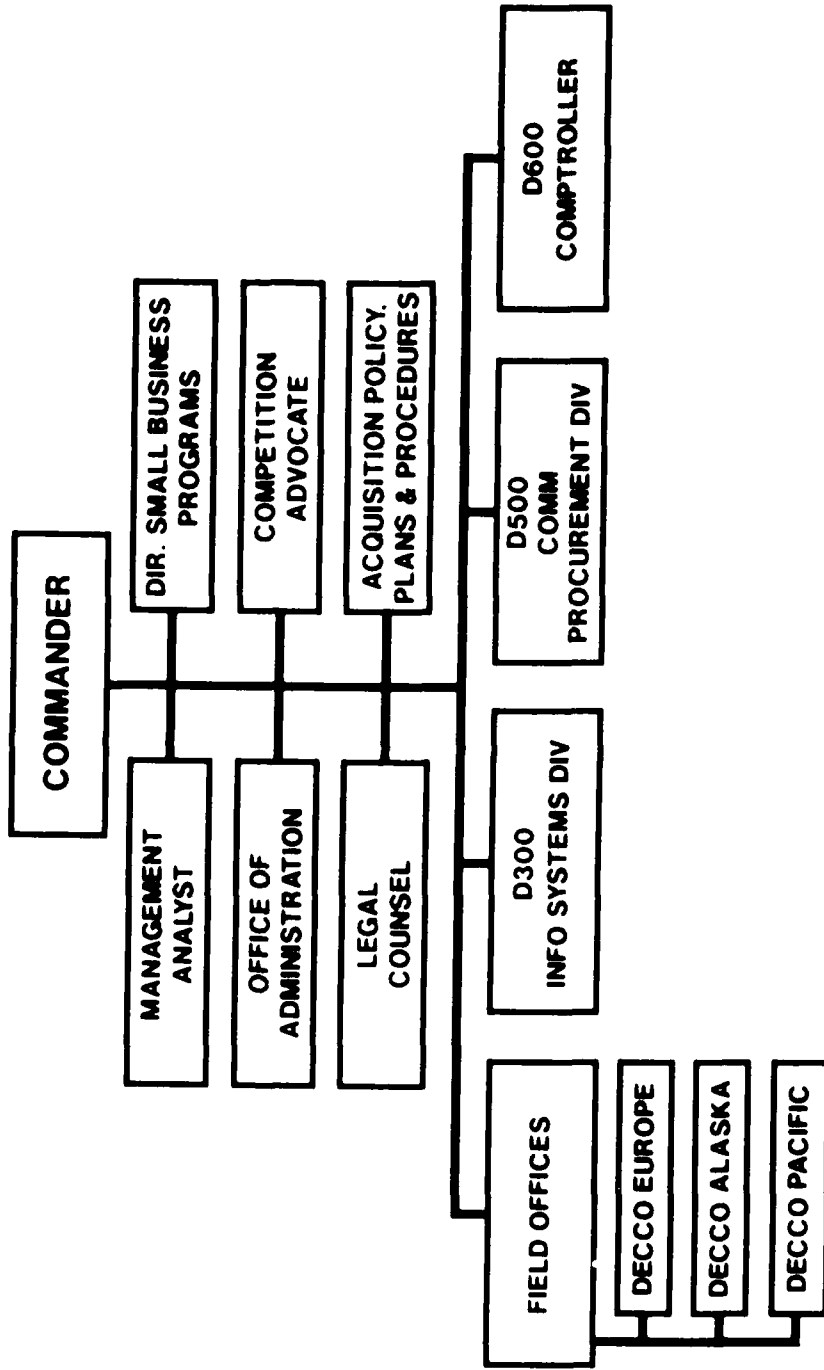
● HISTORICALLY:

- LIMITED COMPETITION (BELL SYSTEM AND WESTERN UNION)**
- BASIC AGREEMENTS WITH BOTH COMPANIES**
- MOST SERVICES TARIFFED**
- SINGLE CSA/END-TO-END MANAGEMENT**

● TODAY: (AS A RESULT OF C I II/DIVESTITURE/DEREGULATION)

- MANY PROVIDERS OF SERVICES**
- MUCH SERVICE UNREGULATED/NON-TARIFFED**
- TECHNOLOGY PROVIDES MANY ALTERNATIVE SOLUTIONS**
- END-TO-END MANAGEMENT DIFFICULT/COSTLY**
- CICA REQUIRES FAOC**
- MANY PROVIDERS DO NOT HAVE BASIC AGREEMENTS**

DECCO ORGANIZATIONAL STRUCTURE

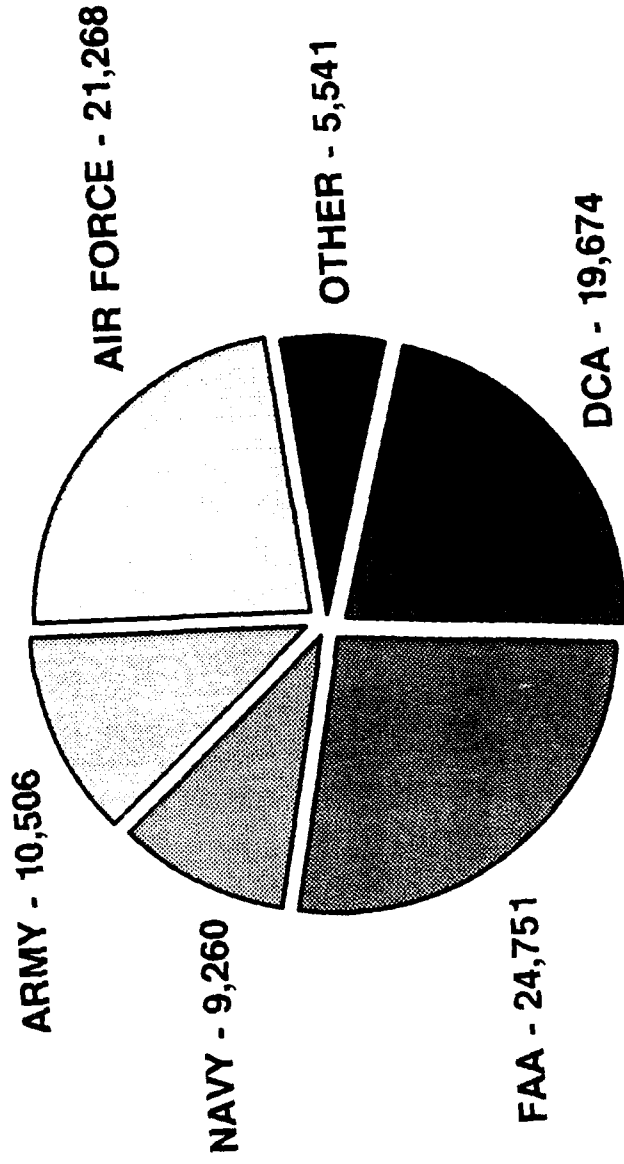


MAJOR CUSTOMERS

	PERCENT
USAF (HQ AFCC, SCOTT AFB)	35.6%
FAA (HQ FAA/NINE REGIONS)	18.5%
US ARMY (ARRCO, FT. HUACHUCA, AZ)	15.8%
US NAVY (COMNAVTELCOM, WASHINGTON, DC)	13.1%
DCA	2.2%
OTHERS	14.8%
	<hr/>
	100%

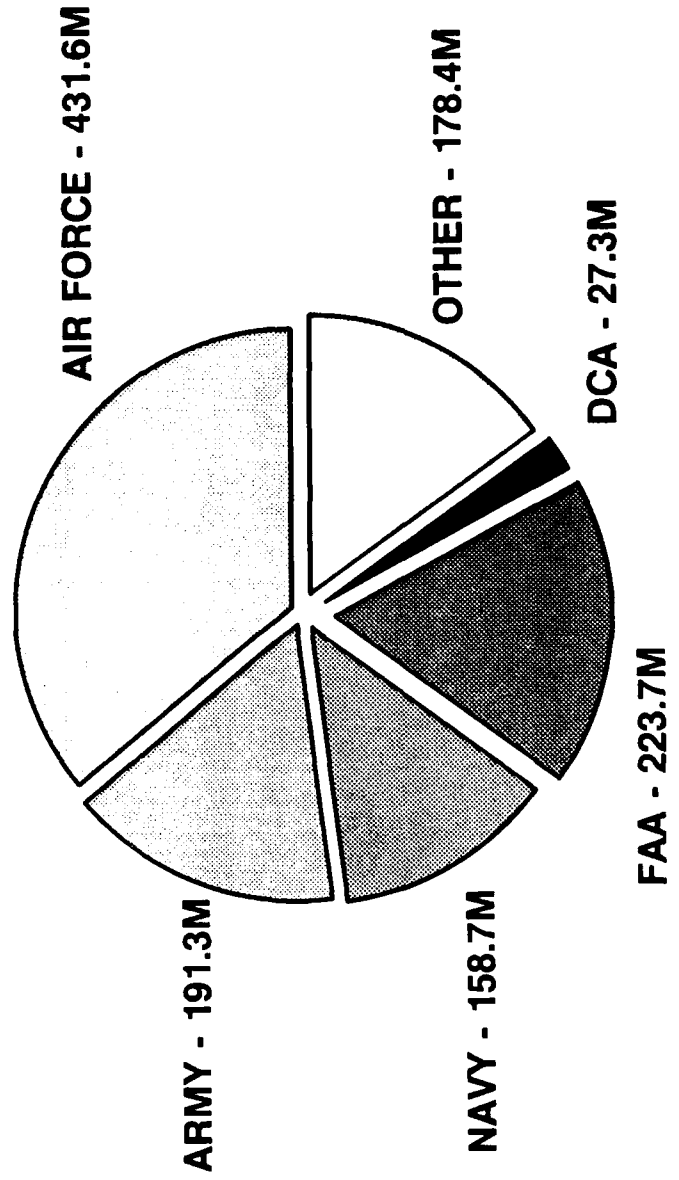
DEFENSE COMMERCIAL COMMUNICATIONS OFFICE CONTRACT DISTRIBUTION

(91,000 CONTRACTS)



DEFENSE COMMERCIAL COMMUNICATIONS OFFICE CUSTOMER OBLIGATIONS

(\$1.2 BILLION)

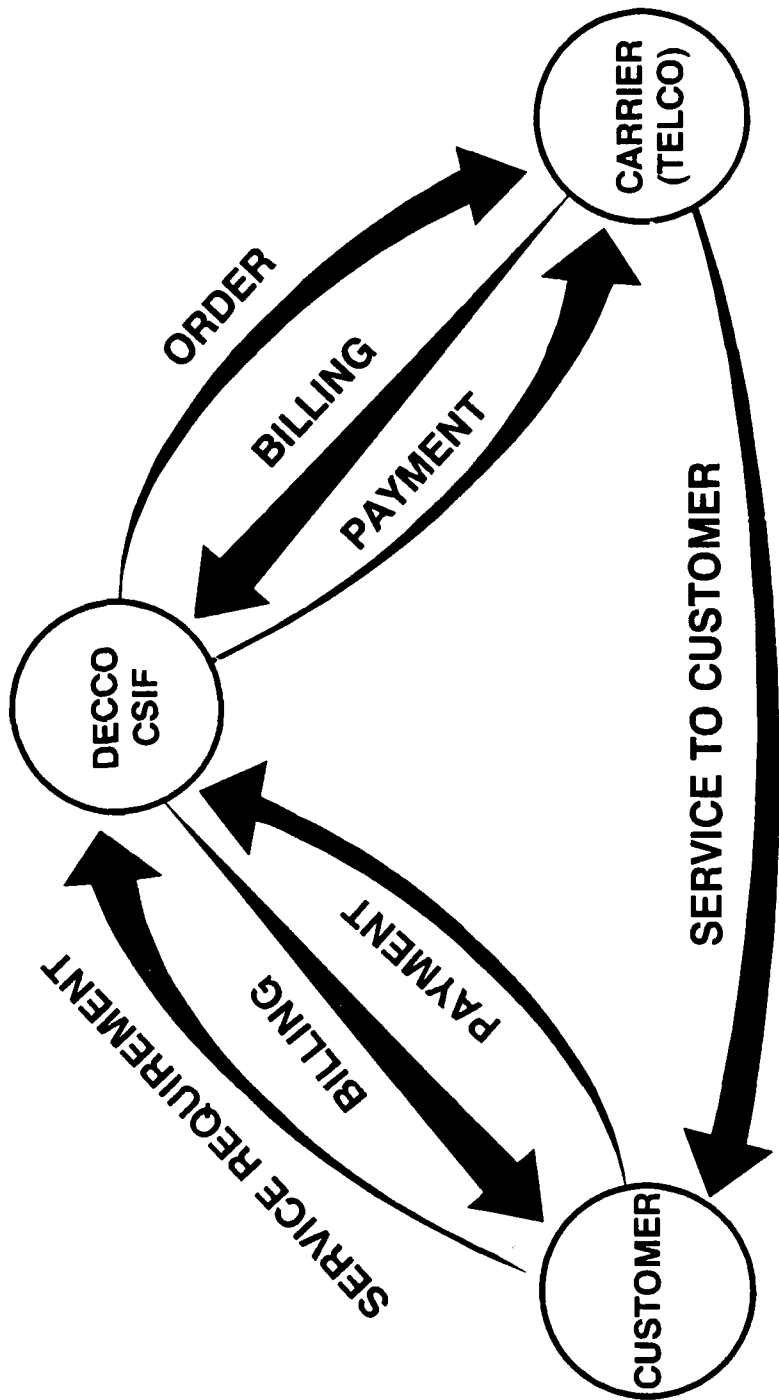


THE REQUIREMENT FLOW PROCESS

- MILDEP/AGENCY/FAA USER INITIATES REQUEST FOR SERVICE
- MILDEP/AGENCY/FAA TCO REVIEWS REQUIREMENT/GENERATES TSR
- DCA ALLOCATION ENGINEERING DIVISION REVIEWS/GENERATES TSO/TLA
- DECCO
 - REVIEWS SOW/ACQUISITION PLAN/JUSTIFICATION FOR LTFAOC
 - SOLICITS INDUSTRY
 - NEGOTIATES/AWARDS CONTRACT(S)/CSA(S)
 - ADMINISTERS CONTRACTS, CHANGES, MODIFICATIONS, ETC
 - PAYS BILLS/RECEIVES REIMBURSEMENT FROM MILDEP/AGENCY/FAA

COMMUNICATIONS SERVICES INDUSTRIAL FUND (CSIF)

\$20,000,000



#054-G-CV

FOUR BASIC CATEGORIES OF SERVICE

- **CIRCUITRY**
- **CUSTOMER PREMISES EQUIPMENT (CPE)
(GENERALLY LEASED WITH MAINTENANCE)**
- **CIRCUITRY WITH ASSOCIATED CPE**
- **COMMUNICATIONS SYSTEMS/NETWORKS**

CIRCUITRY

60% OF DECCO'S CSAS

- PRIMARILY LONG-HAUL, DEDICATED, POINT-TO-POINT
- MINIMAL LOCAL BUSINESS/FX LINES
- SWITCHED/VOICE AND DATA
- POINT-TO-POINT VOICE AND DATA
- VOICE/DATA TRUNKS AND TAILS
- INTER/INTRALATA
- INTERNATIONAL WITH & WITHOUT CONUS/FOREIGN TAILS
- MULTIMEDIA
 - TERRESTRIAL
 - MICROWAVE
 - FIBER OPTIC
 - SATELLITE

CUSTOMER PREMISES EQUIPMENT

- **MULTIPLXERS**
- **MODEMS**
- **DATA TERMINAL EQUIPMENT FOR COMM CENTERS**
- **SPECIAL PURPOSE CONSOLES**
- **TASI EQUIPMENT**
- **FACSIMILE (BOTH SECURE/NON-SECURE)**
- **SPECIAL PURPOSE PBXS**
- **SPECIAL PURPOSE EQUIPMENT**

CIRCUITRY WITH ASSOCIATED CPE

● DATA CIRCUITS

- WIDEBAND (UP TO 1.544)**
- TRUNKS WITH MULTIPLEXERS**
- TAILS WITH MODEMS**
- TELETYPE**
- SECURE/NON-SECURE FAX**

● VOICE CIRCUITS

- SECURE/NON-SECURE**
- WITH KEY EQUIPMENT**
- WITH SIGNALING EQUIPMENT**
- WITH SWITCHING EQUIPMENT**
- ALTERNATE VOICE/DATA**

● PUBLIC DATA NETWORK SERVICE

COMMON USER COMMUNICATIONS SYSTEMS/NETWORKS

- **AUTOVON**
- **AUTODIN**
- **DDN**
- **DCTN**
- **OTS**
- **WAWS**
- **WORLDWIDE CHANNELPACK**
- **IEMATS**
- **OTHER COMMAND AND CONTROL**

DECCO - COSTS OF COMMON USER NETWORKS/SYSTEMS - FY87

AUTODIN I	\$93.7 M
AUTOVON	301.3
DEFENSE DATA NETWORK	96.3
ARPA NETWORK	5.0
WASHINGTON AREA WIDEBAND SYSTEM	10.6
HAWAIIAN AREA WIDEBAND SYSTEM	1.6
BULK ENCRYPTED COMM SYSTEMS	3.0
DEFENSE COMMERCIAL TELECOM NETWORK	7.7
	\$519.2 M
DECCO OVERHEAD	13.1
DEDICATED LINES AND ALL OTHERS	692.8
	\$1,225.1 M
TOTAL	

OVERVIEW OF MAJOR POLICIES/PROCEDURES

- **MAXIMIZE COMPETITION**
- **BASIC AGREEMENTS**
- **INQUIRY/QUOTE/ORDER**
- **NOTICE TO CONTRACTORS**
- **SINGLE CSA**
- **USE OF BULK CONTRACTS**

CONTRACT METHODS/MEDIA

- **BASIC AGREEMENTS**
- **INQUIRY/QUOTE/ORDER**
- **DIRECT ORDERS**
- **ORDERS AGAINST GSA SCHEDULES**
- **FORMAL RFP/STAND-ALONE CONTRACT**
- **INDEFINITE DELIVERY/QUANTITY
"BULK" CONTRACTS**

BASIC AGREEMENTS

- **COVERED BY FAR 16.702**
- **USED WITH 97% OF DECCO CONTRACTS**
- **EXECUTED WITH APPROXIMATELY 450 COMPANIES**
- **NOT A CONTRACT**
 - **CONTAINS NO SERVICES/PRICES**
 - **WRITTEN UNDERSTANDING OF TERMS AND CONDITIONS THAT APPLY TO CONTRACTS**
 - **NEW VERSION HAS SECTIONS FOR BOTH TARIFFED AND NON-TARIFFED SERVICE**
 - **HAS GENERAL AND SPECIAL PROVISIONS**
- **FACILITIES INQUIRY/QUOTE/ORDER PROCEDURE**
 - **PRIMARYLY FOR LOW VALUE/HIGH VOLUME SERVICES**
 - **RARELY USED FOR EQUIPMENT LEASES**

IMPACTS OF DIVESTITURE

- **PROVISIONING**
 - DOD MAY BECOME "INTEGRATING CONTRACTOR"
 - LEAD TIMES STRETCHED OUT
 - LESS COORDINATION/COOPERATION BETWEEN ATT-IS/ATT-COM/RBOCs/BOCs
 - DOD NO LONGER GETS "SPECIAL" HANDLING
 - CPE DETARIFFED - MUST COMPETE

- **BILLING**
 - SINGLE BILL FOR END-TO-END SERVICES MORE COSTLY/DIFFICULT
 - RECORD TRANSFERS BEHIND SCHEDULE
 - BOCs STRIPPING OFF CPE
 - ATT-LONG LINES NO LONGER DICTATES UNIFORM GUIDANCE ON FORMAT/CONTENT
 - INCREASED PAPER vs MAG TAPE MEDIA

- **MAINTENANCE**
 - CPE DETARIFFED/RESPONSE TIMES UNCERTAIN BUT COSTS RISING

CHALLENGES DECCO FACES

- **MAINTAINING EXISTING SERVICES**
- **OBTAINING AND TRAINING PERSONNEL**
- **REASSESS COSTS/BENEFITS OF SINGLE CSA**
- **GENERIC SPECIFICATIONS FOR SERVICES**
- **ASSUMING ROLE OF "INTEGRATING CONTRACTOR"**
- **DEALING WITH THOUSANDS OF CONTRACTORS IN A DEREGULATED ENVIRONMENT**
- **HANDLING HUNDREDS OF DISSIMILAR AUTOMATED CONTRACTOR BILLING SYSTEMS**
- **COMPLIANCE WITH CICA AND PROMPT PAYMENT ACT PROVISIONS**

DECCO INITIATIVES

- TO INCREASE EFFICIENCY
 - RETAIN BASIC AGREEMENTS WITH REGULATED CARRIERS
 - REASSESS NEED FOR SIMILAR AGREEMENTS WITH NON REGULATED
 - ENCOURAGE STANDARDIZED MAG TAPE BILLING
 - STIPULATE BILLING REQUIREMENTS IN COMPETITIVE CONTRACTS
 - CONSOLIDATE OR PACKAGE FRAGMENTED REQUIREMENTS
 - DEVELOP NEW SOFTWARE FOR PROCESSING HIGH VOLUME/LOW VALUE SERVICES
 - EMPHASIS ON TRAINING
- DECCO'S ACQUISITION BULLETIN BOARD SYSTEM (DABBS)
- REORGANIZATION INITIATIVES/CONTRACTING OUT
- PLAN TO RECOMPETE EXPIRED CONTRACTS
- OFFICE AUTOMATION
- PROGRAMMING FOR NEW FACILITY

**SMALL AND DISADVANTAGED BUSINESS
UTILIZATION PROGRAM**

- SMALL BUSINESS DEFINITIONS**
- SMALL BUSINESS ACT**
- OUTREACH ACTIVITY**
- DCA GOAL ATTAINMENT**

SMALL BUSINESS

**WHO ARE THEY -
WHAT DO THEY DO -**

- **97% OF ALL BUSINESS FIRMS ARE SMALL**
13.2 MILLION SMALL ENTERPRISES (3 MILLION FARMS)
- **ACCOUNT FOR 48% OF THE NON FARM GNP**
- **55% OF LABOR FORCE EMPLOYED BY FIRMS UNDER 100 EMPLOYEES**
- **CREATED TWO-THIRDS OF ALL NEW JOBS IN LAST TEN YEARS**
- **WIN \$1 OUT OF \$2 IN OPEN COMPETITION**
- **SMALL BUSINESS LEADS IN INNOVATIVE R&D**
PRODUCED 24 TIMES AS MANY MAJOR INNOVATIONS AS LARGE BUSINESS
RATIO OF INNOVATIONS FOUR TIMES GREATER FOR SMALL BUSINESS
THAN LARGE FIRMS

SMALL BUSINESS ACT

- **CREATED SMALL BUSINESS ADMINISTRATION**
- **PROVIDED AUTHORITY FOR SPECIAL ASSISTANCE TO MINORITY BUSINESS ENTERPRISE (MBE) - SECTION 8(A), 1958 AMENDMENT**
- **INSURED THAT A FAIR SHARE OF GOVERNMENT PROCUREMENT DOLLAR WILL GO TO SMALL BUSINESS (SB)**

SMALL BUSINESS ACT, REVISED

- **DEFINE SMALL DISADVANTAGED BUSINESS**
- **REQUIRES SMALL BUSINESS AND SMALL DISADVANTAGED BUSINESS SUBCONTRACT GOALS**
- **PRESCRIBES ADDITIONAL SBA AUTHORITY**
- **REQUIRES AGENCIES TO ESTABLISH SMALL BUSINESS GOALS AND REPORT WHEN THEY ARE NOT MET**
- **AWARDS UNDER \$25,000 RESERVED FOR SMALL BUSINESS**
- **REQUIRES ESTABLISHMENT OF OFFICE OF SMALL AND DISADVANTAGED BUSINESS UTILIZATION**
 - **DIRECTOR APPOINTED BY HEAD OF AGENCY**
 - **DIRECTOR REPORTS TO HEAD OF AGENCY OR DEPUTY**

**DCA OFFICE OF SMALL AND
DISADVANTAGED BUSINESS UTILIZATION**

- ESTABLISH DIRECTOR SMALL BUSINESS AND
SMALL DISADVANTAGED BUSINESS UTILIZATION
PROGRAM IN THE COMPETITION ADVOCATE'S
OFFICE FOR THE TOTAL AGENCY
- ESTABLISH AN ASSOCIATE DIRECTOR SMALL
BUSINESS AND SMALL DISADVANTAGED BUSINESS
UTILIZATION PROGRAM IN THE ACTIVITY
COMPETITION ADVOCATE OFFICE AT DECCO

SMALL BUSINESS SET-ASIDES

FOR A BUSINESS TO QUALIFY IT MUST:

- **BE ORGANIZED FOR PROFIT**
- **HAVE PLACE OF BUSINESS IN U.S.**
- **MAKE SIGNIFICANT CONTRIBUTION TO U.S. ECONOMY, BUT NOT DOMINANT IN THE MARKET PLACE**
- **MEET THE SMALL BUSINESS SIZE STANDARD**

HOW SMALL IS SMALL?

<u>TYPE OF BUSINESS</u>	<u>SIZE STANDARD RANGE</u> <u>NOT TO EXCEED</u>
CONSTRUCTION	\$7M TO \$17M ANNUALLY
R&D	IF NOT MFG. 500 EMPLOYEES IF MFG. PRODUCT, SIZE STAND- DEPENDS ON SPECIFIC INDUSTRY (SEE FAR 19.101)
SERVICES	\$2.5M TO \$14.5M ANNUALLY
COMPUTER RELATED SERVICES NON-MFG	\$7M TO \$12.5M ANNUALLY

SET-ASIDE PRIORITIES

- 1. TOTAL SMALL DISADVANTAGED BUSINESS**
- 2. COMBINED SMALL BUSINESS/LABOR SURPLUS
AREA (LSA)**
- 3. PARTIAL SET-ASIDE FOR LSA FIRMS**
- 4. TOTAL SET-ASIDE FOR SMALL BUSINESS FIRMS**
- 5. PARTIAL SET-ASIDE FOR SMALL BUSINESS FIRMS**

WHO ARE SMALL DISADVANTAGED BUSINESS CONCERNS

**AS PRESCRIBED IN FAR 19.508-71, "A SMALL DISADVANTAGED
BUSINESS CONCERN IS A COMPANY THAT:**

- (1) IS AT LEAST 51 PERCENT OWNED BY ONE OR MORE
INDIVIDUALS WHO ARE BOTH SOCIALLY AND ECONOMICALLY
DISADVANTAGED, OR A PUBLICLY OWNED BUSINESS HAVING
AT LEAST 51 PERCENT OF ITS STOCK OWNED BY ONE OR
MORE SOCIALLY AND ECONOMICALLY DISADVANTAGED
INDIVIDUALS, (2) HAS ITS MANAGEMENT AND DAILY BUSINESS
CONTROLLED BY ONE OR MORE SUCH INDIVIDUALS AND**
- (3) THE MAJORITY OF THE EARNINGS OF WHICH ACCURE TO
SUCH SOCIALLY AND ECONOMICALLY DISADVANTAGED
INDIVIDUALS."**

OSD POLICY DIRECTIONS FY88

- **ESTABLISH AN OBJECTIVE THAT 5 PERCENT OF TOTAL COMBINED DOD OBLIGATIONS FOR CONTRACTS AND SUBCONTRACTS AWARDED DURING FYS87-89, BE ENTERED INTO WITH SMALL DISADVANTAGED BUSINESS, HISTORICALLY BLACK COLLEGES AND UNIVERSITIES, AND MINORITY INSTITUTIONS**
- **DEVELOP OUTREACH PROGRAMS**
- **ENSURE THAT SDB GOALS IN SUBCONTRACTING PLANS REPRESENT TRULY CHALLENGING GOALS AND MAKE EVERY ATTEMPT TO INCREASE SDB SUBCONTRACT AWARDS**
- **REQUIRE SEMI-ANNUAL REPORTING TO CONGRESS OF OUR PROGRESS TO ATTAIN THE 5 PERCENT GOAL**

DEFENSE COMMUNICATIONS AGENCY SMALL BUSINESS GOAL ATTAINMENT

	<u>FY86 FINAL GOAL</u>	<u>FY86 *** ACHIEVEMENT</u>	<u>FY87 FINAL GOAL</u>	<u>FY87 *** ACHIEVEMENT</u>	<u>FY88 GOALS</u>
SMALL BUSINESS	11.0%	20.5%	3.2%	32.6%	16.7%
SMALL BUSINESS SET ASIDE	.5%	1.5%	.2%	3.6%	2.0%
SMALL DISADVANTAGED HISTORICALLY BLACK COLLEGES AND UNIVERSITIES	5.0%	2.4%	5.0%*	4.8%** (8.841M)	5%
WOMEN OWNED	.3M	1.123M	.3M	3.686M	\$.05M

* BASE OF \$200,000,000 FORECAST

** BASE OF \$183,945,000 EXPERIENCED

*** FIGURES REPRESENTS DCA HEADQUARTERS ONLY

OUTREACH ACTIVITIES

- **OSD SPONSORED SMALL BUSINESS CONFERENCES THROUGHOUT THE 10 FEDERAL REGIONS**
- **OSD SPONSORED SMALL BUSINESS "HOW TO" COUNSELING SERVICES**
- **DCA SPONSORED SMALL BUSINESS FAIR**
- **AGENCY ACQUISITION FORECAST**

PRESIDENT REAGAN'S STATEMENT*

**“LET US NOT OVERLOOK THE FACT THAT
THE SMALL, INDEPENDENT BUSINESS
MAN OR WOMAN CREATES MORE THAN
80 PERCENT OF ALL THE NEW JOBS AND
EMPLOYS MORE THAN HALF OF OUR
TOTAL WORK FORCE”**

* Delivered Joint Session of Congress 28 April 81

DCSO

**DEFENSE COMMUNICATIONS SYSTEMS
ORGANIZATION BRIEFINGS**

- **DEFENSE SWITCHED NETWORKS** **MR BRIENZA**
- **DEFENSE DATA NETWORKS** **COL HERRICK**
- **DEFENSE SATELLITE COMMUNICATIONS** **COL CHOFFEL**
SYSTEM

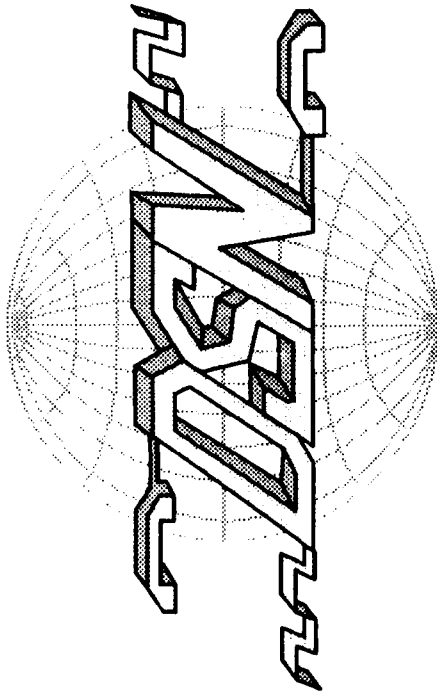
DEFENSE SWITCHED NETWORK



OUTLINE

- **CONTRACT INFORMATION**
- **PURPOSE**
- **DEFINITION**
- **DSN SCOPE**
- **CAPABILITY OBJECTIVES**
- **OVERVIEW OF DSN PHASES**
- **CURRENT CONTRACTS**
- **FUTURE CONTRACTS**
- **SUMMARY**

DEFENSE SWITCHED NETWORK



DESCRIPTION

- DSN PROGRAM PLAN
- RFS/TSR/TSO
- SYSTEM DESIGN CONCEPTS AND POLICY
- CIRCUIT ALLOCATION ENG
- TECHNICAL DOCUMENTATION REVIEW
- TRANSMISSION PLANNING
- SYSTEM OPS/ENG AND MANAGEMENT
- NETWORK MANAGEMENT
- DATA BASE MANAGEMENT
- TRAFFIC ENG/DATA COLLECTION/FORECASTING
- NETWORK IMPLEMENTATION AND INSTALLATION PLANNING
- CUTOVER PLANNING

CONTRACT DATA

CONTRACTING AGENCY: DCA
USER COMMANDS/AGENCIES: DCA
POINTS OF CONTACT: ALLEN-HENEMAN
KEY LOCATIONS: WASHINGTON, DC
WHEELER AFB, HI
VAHINGEN, WEST GERMANY

CONTRACT PERIOD:	DOLLAR VALUE:
DSN PM FY88-FY90	3,579,600
DSN BACKBONE FY88-FY90	7,864,601

KEY MILESTONES

DSN PROGRAM MANAGEMENT SUPPORT

- BASE YEAR COMPLETED: SEP 88
- FIRST PRICED OPTION COMPLETED: SEP 89
- SECOND PRICED OPTION COMPLETED: SEP 90

DSN BACKBONE SUPPORT

- BASE YEAR COMPLETED: OCT 88
- FIRST PRICED OPTION COMPLETED: OCT 89
- SECOND PRICED OPTION COMPLETED: OCT 90

DSN WORLDWIDE SUPPORT

- RFP RELEASE: NOV 89
- CONTRACT AWARD: JUL 90

#085-CV

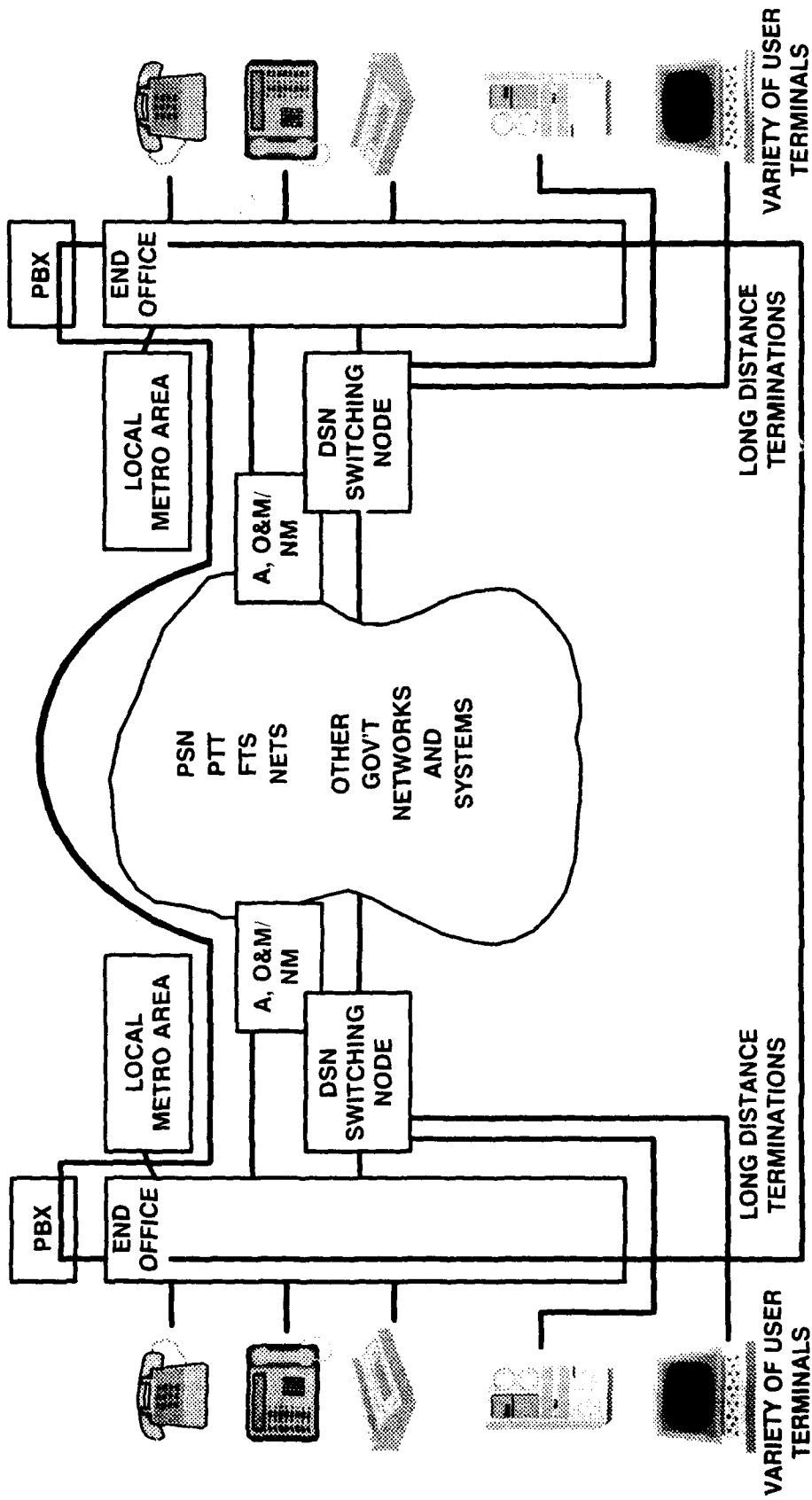
PURPOSE

- **PROVIDE SURVIVABLE, RAPID, AND ECONOMICAL TELECOMMUNICATIONS HIGH PRIORITY USERS**
- **PROVIDE SERVICE TO LOWER PRIORITY USERS ON A NON-INTERFERENCE BASIS FOR ECONOMY**

DEFINITION

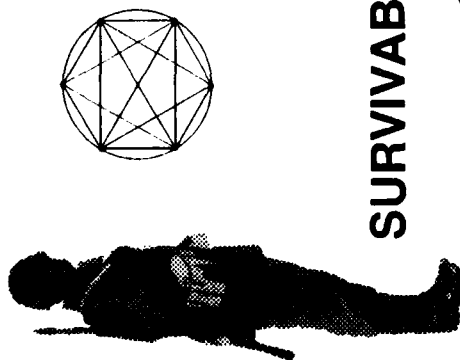
“INTER-BASE TELECOMMUNICATIONS SYSTEM WHICH PROVIDES END-TO-END COMMON USER AND DEDICATED TELEPHONE SERVICE FOR THE DoD WITH LATER CAPABILITY OF INCORPORATING DATA AND OTHER TRAFFIC”

DSN SCOPE

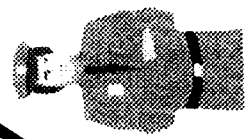


#085-CV

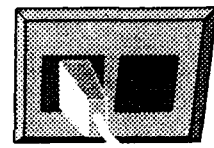
CAPABILITY OBJECTIVES



SURVIVABLE

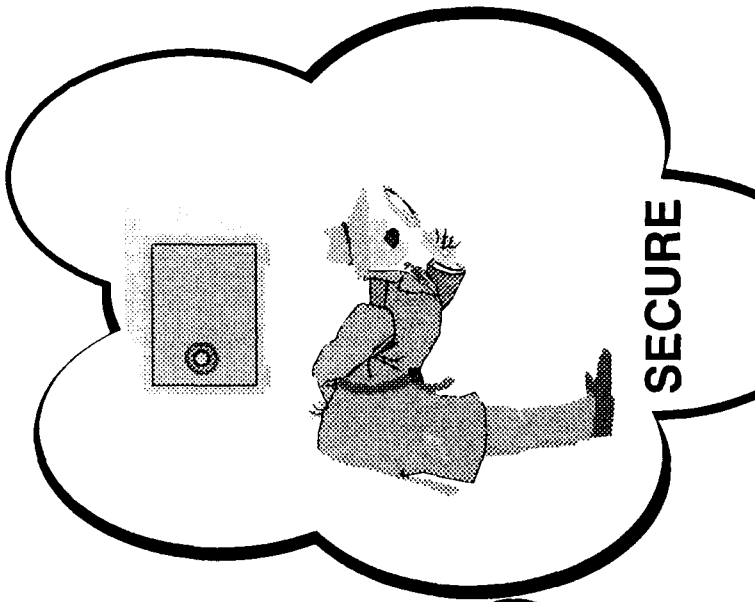


RESPONSIVE



INTEROPERABLE

#085-CV

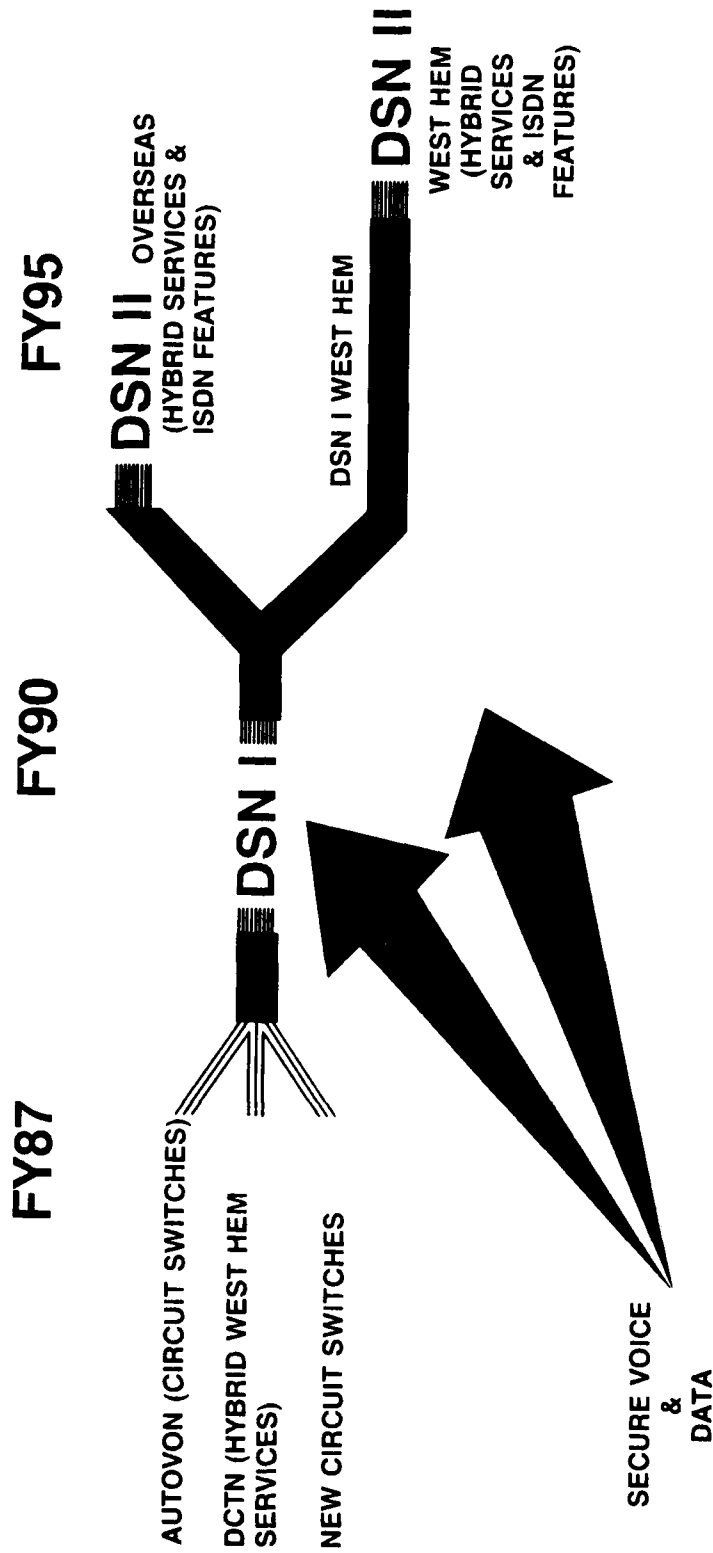


SECURE



COST EFFECTIVE

OVERVIEW OF DSN PHASES



MAJOR DSN CONTRACTUAL EFFORTS

(DEPUTY DIRECTOR DCS TELECOMMUNICATIONS NETWORKS)

CURRENT

CONTRACT NO.	DESCRIPTION	INCUMBENT	VALUE	PERIOD
DCA100-87-C-0155	DEFENSE SWITCHED NETWORK (DSN) PROGRAM MANAGEMENT SUPPORT	GTE	1,200,000 1,400,000 1,100,000	OCT 87-SEP 88 OCT 88-SEP 89 OCT 89-SEP 90
DCA100-88-C-0017	DEFENSE SWITCHED NETWORK (DSN) BACKBONE SUPPORT	GTE	2,900,000 2,700,000 2,400,000	NOV 87-OCT 88 NOV 88-OCT 89 NOV 89-OCT 90

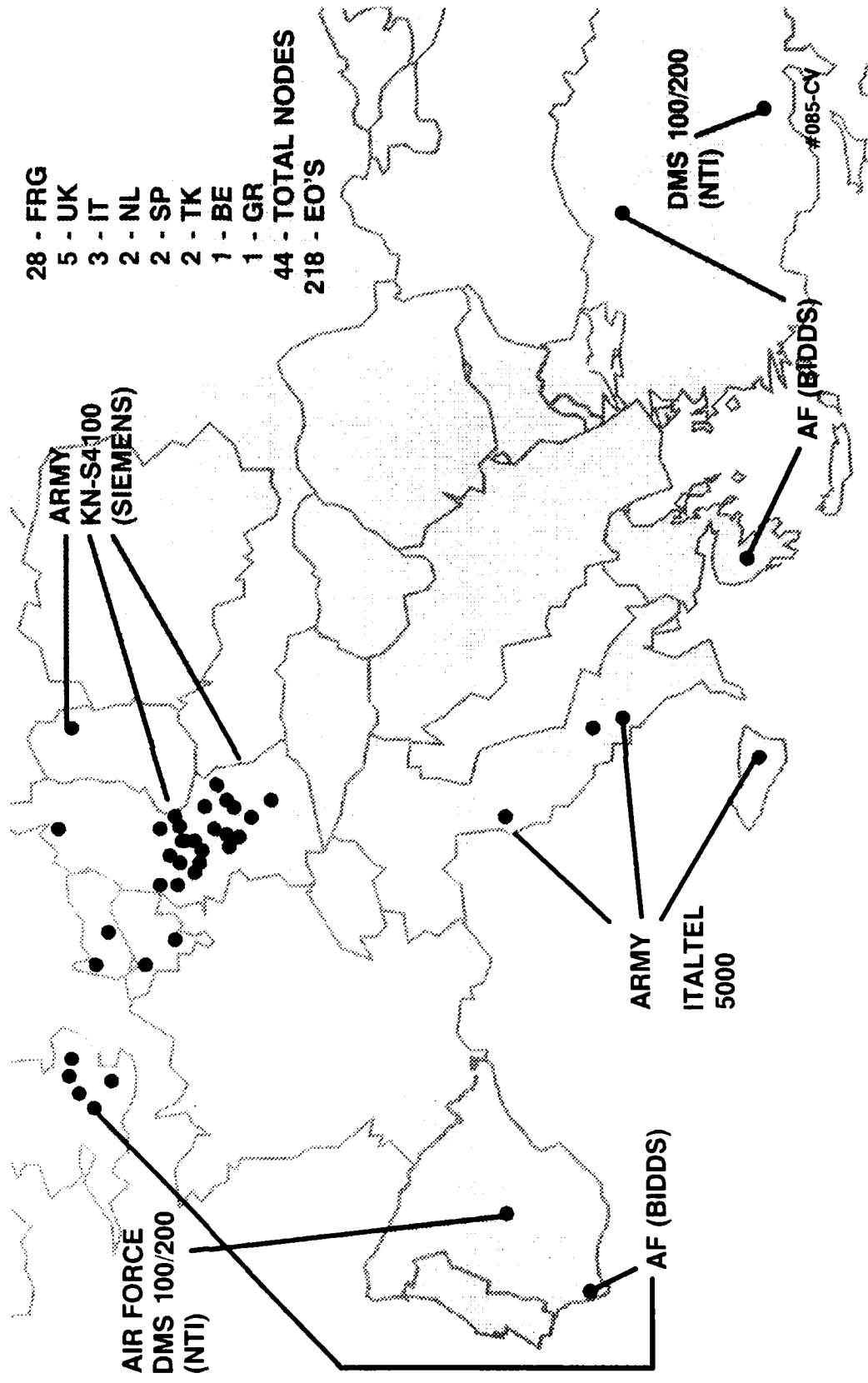
#085-CV

MAJOR DSN CONTRACTUAL EFFORTS
(DEPUTY DIRECTOR DCS TELECOMMUNICATIONS NETWORKS)

FUTURE

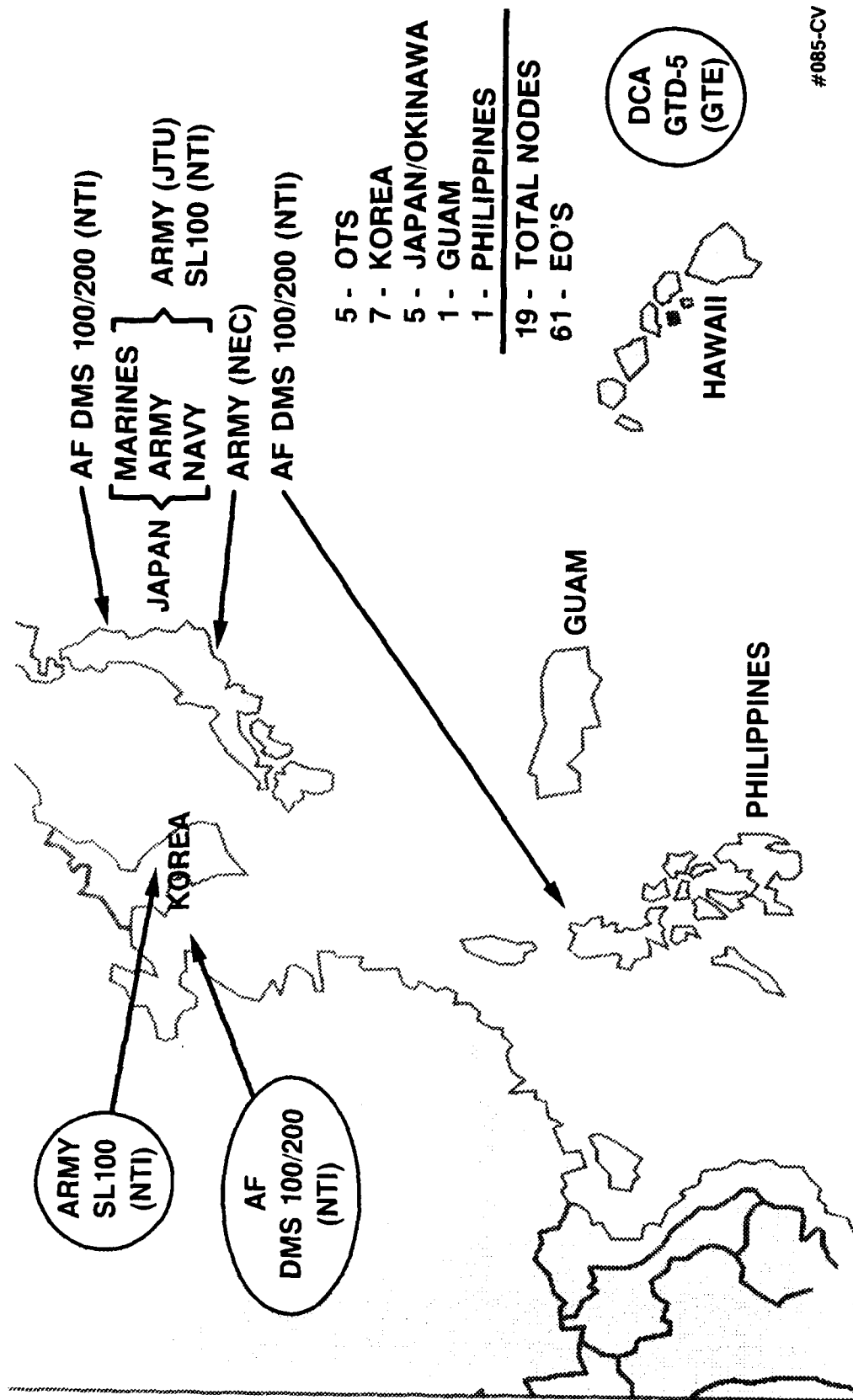
DESCRIPTION	VALUE RANGE	ANNOUNCEMENT	PERIOD
DEFENSE SWITCHED	5,000,000	OCTOBER 89	OCT 90-SEP 91
NETWORK (DSN)	5,000,000		OCT 91-SEP 92
WORLDWIDE	5,000,000		OCT 92-SEP 93
SUPPORT			

DSN-EUR CIRCUIT SWITCHED NODES



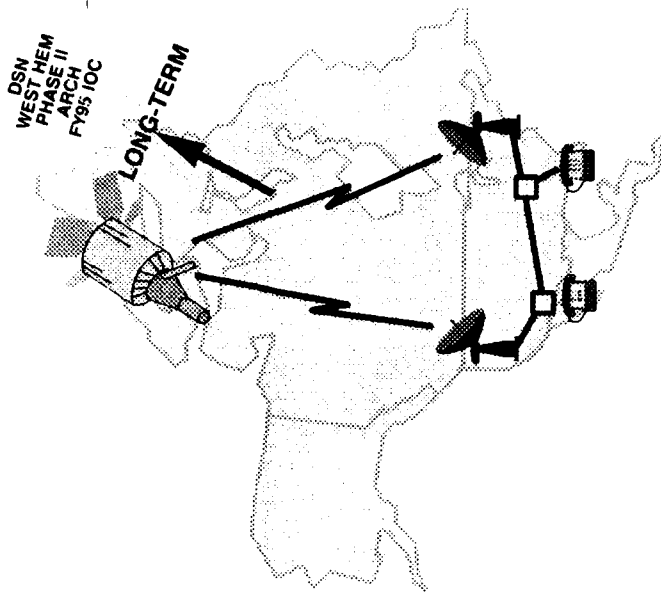
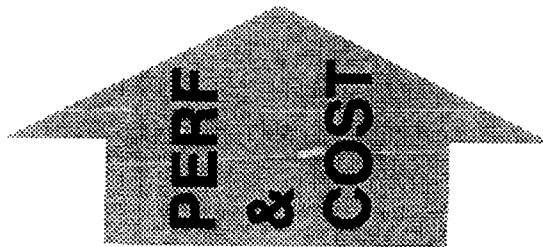
28 - FRG
 5 - UK
 3 - IT
 2 - NL
 2 - SP
 2 - TK
 1 - BE
 1 - GR
 44 - TOTAL NODES
 218 - EO'S

DSN PACIFIC



#085-CV

DSN WEST HEM



BEFORE
AUTOVON

TODAY & TOMORROW
DSN PHASE I
UP TO FY95

SUMMARY

- **DSN IS A COMPLEX MULTIFACETED TELECOMMUNICATIONS NETWORK**
- **DSN IS HEAVILY DEPENDENT ON CONTRACT SUPPORT**
 - **PROGRAMMATIC DOCUMENTATION/ANALYSIS**
 - **SYSTEMS MANAGEMENT DOCUMENTATION/ANALYSIS**
- **COMPANIES WITH COMPREHENSIVE TELECOMMUNICATIONS NETWORK EXPERIENCE ARE NEEDED**
- **NEXT MAJOR OPPORTUNITY -- FY91 CONTRACT AWARD**

DDN

DEFENSE DATA NETWORK

INFORMATION BRIEFING FOR INDUSTRY DAY

**COLONEL THOMAS M. HERRICK
PROGRAM MANAGER**

#088-CV

DEFENSE DATA NETWORK (DDN)

THE DATA COMMUNICATIONS SERVICE OF
THE DEFENSE COMMUNICATIONS SYSTEM.

THIS SERVICE UTILIZES PACKET SWITCHING
TECHNOLOGY TO PROVIDE WORLD-WIDE
DATA COMMUNICATIONS FOR INFORMATION
EXCHANGE AND FORCE MANAGEMENT.

FUNCTIONAL DESCRIPTION OF SYSTEM

SUPPORTS -

WHO: DEPARTMENT OF DEFENSE (DoD)
WHAT MSN: LONG HAUL DATA TRANSFER
HOW: WORLDWIDE PACKET SWITCHED NETWORK
WHY: MANDATED BY DEPUTY SECRETARY OF
DEFENSE 1982

CONTRACT DATA

CONTRACTING AGENCY: DEFENSE COMMUNICATIONS
AGENCY (DCA)
USER COMMAND/AGENCY: DEPARTMENT OF DEFENSE (DoD)
POINT OF CONTACT: COLONEL THOMAS M. HERRICK
KEY LOCATIONS: WORLDWIDE
CONTRACT PERIOD: '82-PRESENT
DOLLAR VALUE: \$98M/YEAR

KEY MILESTONES

GUIDELINES FOR DDN DEVELOPMENT AND
INSTALLATION (1986)
USER REQUIREMENTS DATA BASE
(1983-ONGOING)
COMPLETE PACKET SWITCHING NODE
ACQUISITION (1990)
CLASSIFIED SEGMENT ESTABLISHMENT
(1990)
CONNECT MULTI-LEVEL SECURE HOSTS
TO DISNET (1990-ONGOING) #088-CV

DDN OVERVIEW

- **OUR MISSION**
- **THE NETWORKS TODAY**
- **MEETING USER NEEDS**

DEFENSE DATA NETWORK MISSION

- **DDN IS THE PRIMARY MEANS OF
PROVIDING LONG-HAUL COMMUNICATIONS
FOR ALL DoD DATA SYSTEMS**
- **PRINCIPAL ELEMENT OF DCS SUPPORTING
ALL DATA COMMUNICATIONS REQUIREMENTS**

THE FAMILY OF DDN NETWORKS

THE NETWORKS TODAY

DSNET1 - DoD SCI USERS

DSNET2 - DoD SECRET USERS

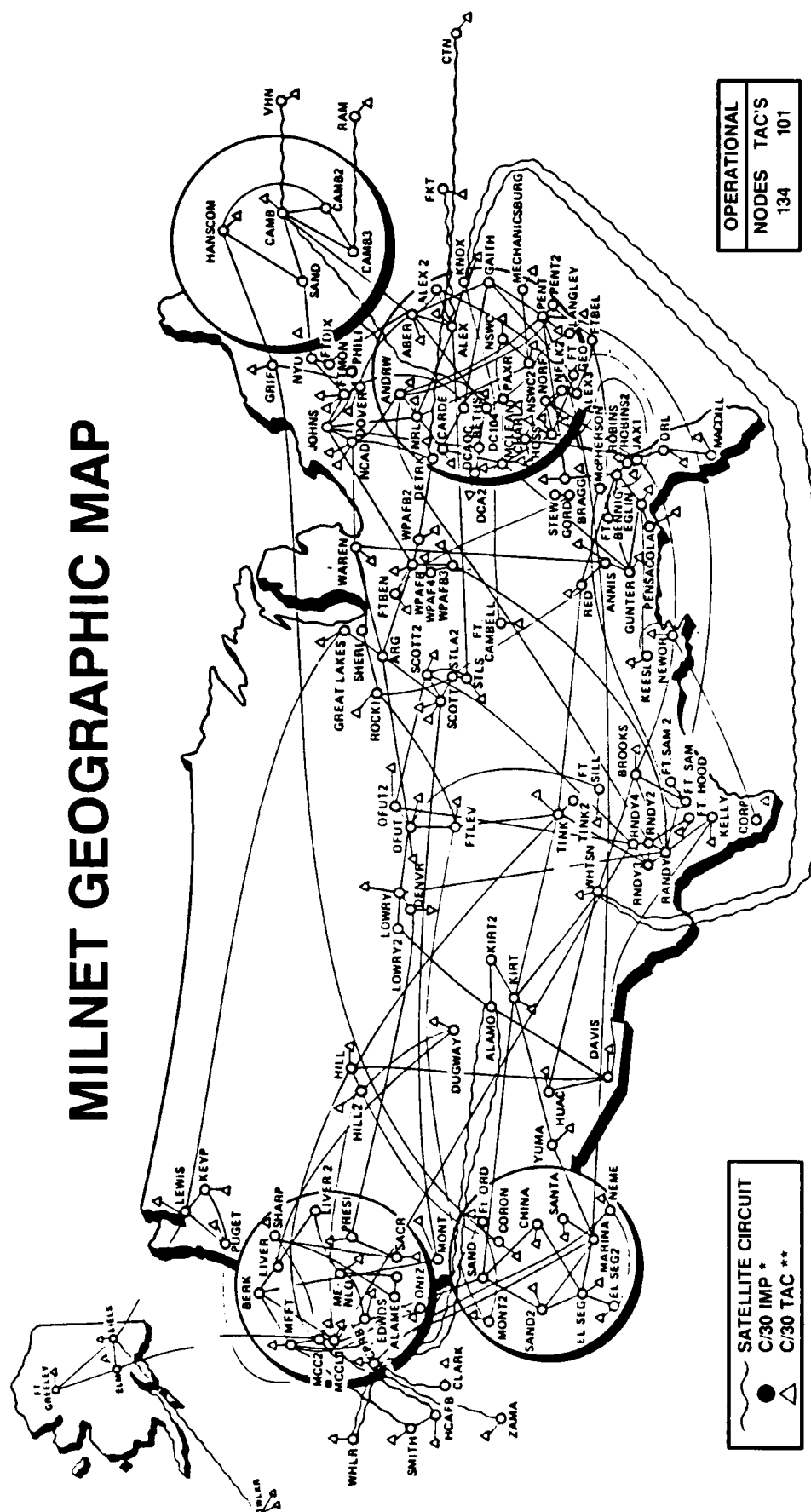
DSNET3 - WWMCCS COMMUNITY

MILNET - DoD UNCLASSIFIED USERS

ARPANET - RESEARCH AND DEVELOPMENT COMMUNITY

OTHER

MILNET GEOGRAPHIC MAP



OPERATIONAL	
NODES	134
TAC'S	101

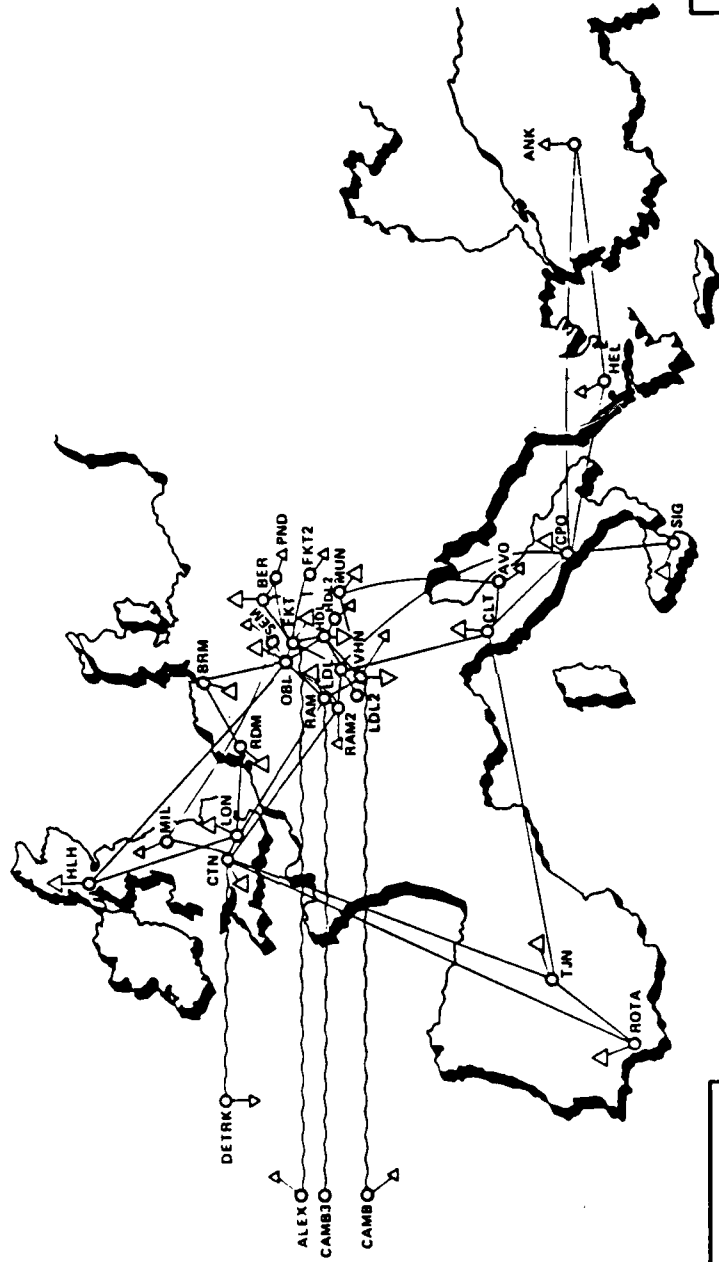
SATELLITE CIRCUIT	
C/30 IMP *	●
C/30 TAC **	△

* C30 IMP = INTERFACE MESSAGE PROCESSOR = PACKET SWITCHING NODE (PSN)

** C30 TAC = TERMINAL ACCESS CONTROLLER

#088-CV

EUROPEAN MILNET GEOGRAPHIC MAP



OPERATIONAL	TAC'S
NODES	27
	28

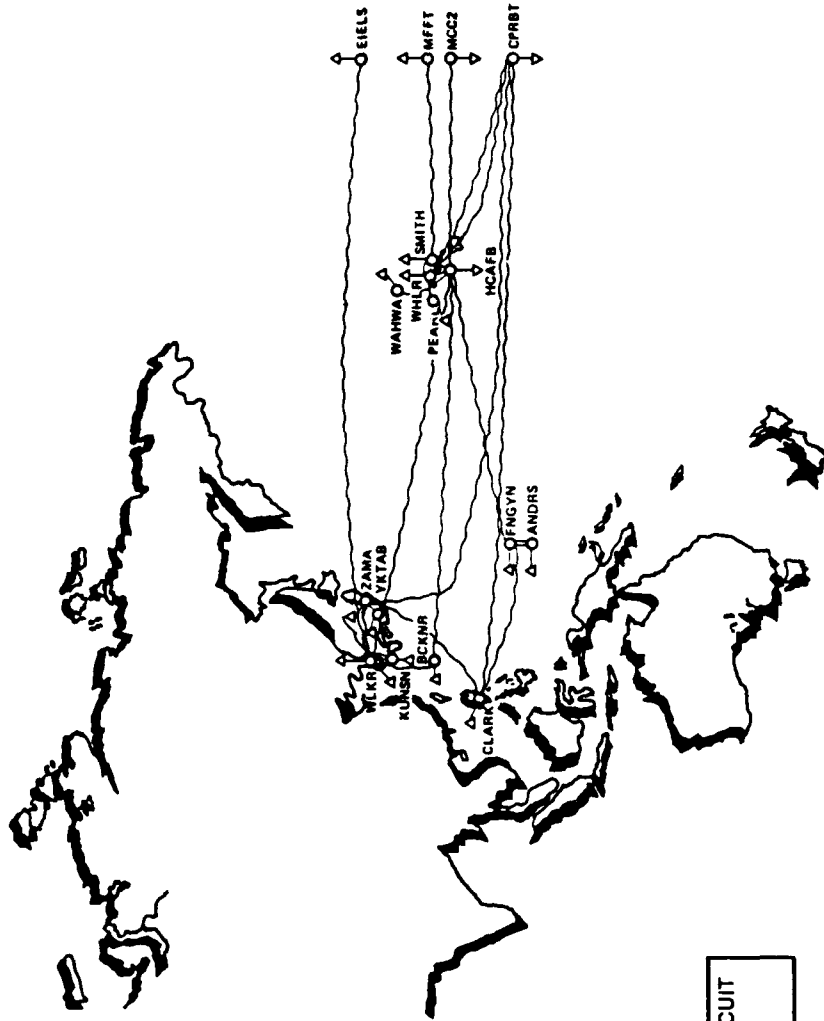
~~~~~ SATELLITE CIRCUIT  
 ● C/30 IMP \*  
 ▲ C/30 TAC \*\*

\* C30 IMP = INTERFACE MESSAGE PROCESSOR = PACKET SWITCHING NODE (PSN)

\*\* C30 TAC = TERMINAL ACCESS CONTROLLER

#088-CV

# PACIFIC MILNET GEOGRAPHIC MAP



| OPERATIONAL |       |
|-------------|-------|
| NODES       | TAC'S |
| 13          | 14    |

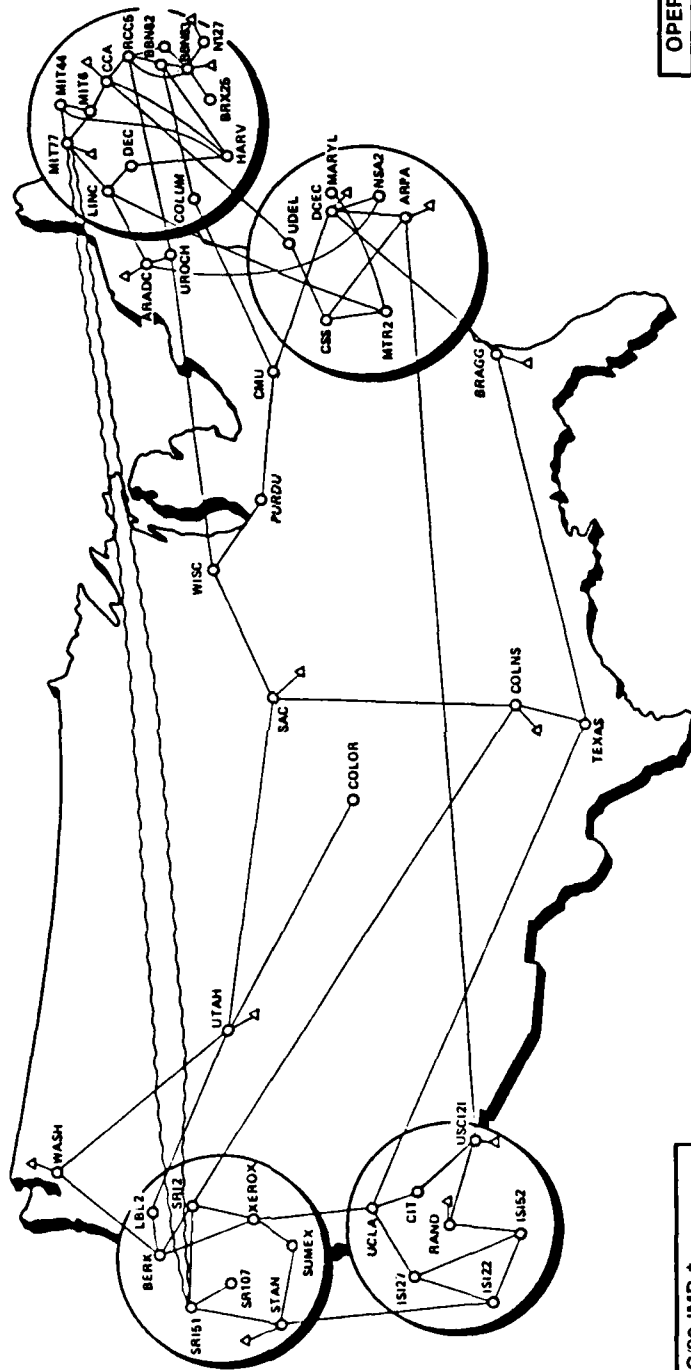
|  |                   |
|--|-------------------|
|  | SATELLITE CIRCUIT |
|  | C/30 IMP *        |
|  | C/30 TAC **       |

\* C30 IMP = INTERFACE MESSAGE PROCESSOR = PACKET SWITCHING NODE (PSN)

\*\* C30 TAC = TERMINAL ACCESS CONTROLLER

#088-CV

# ARPANET GEOGRAPHIC MAP



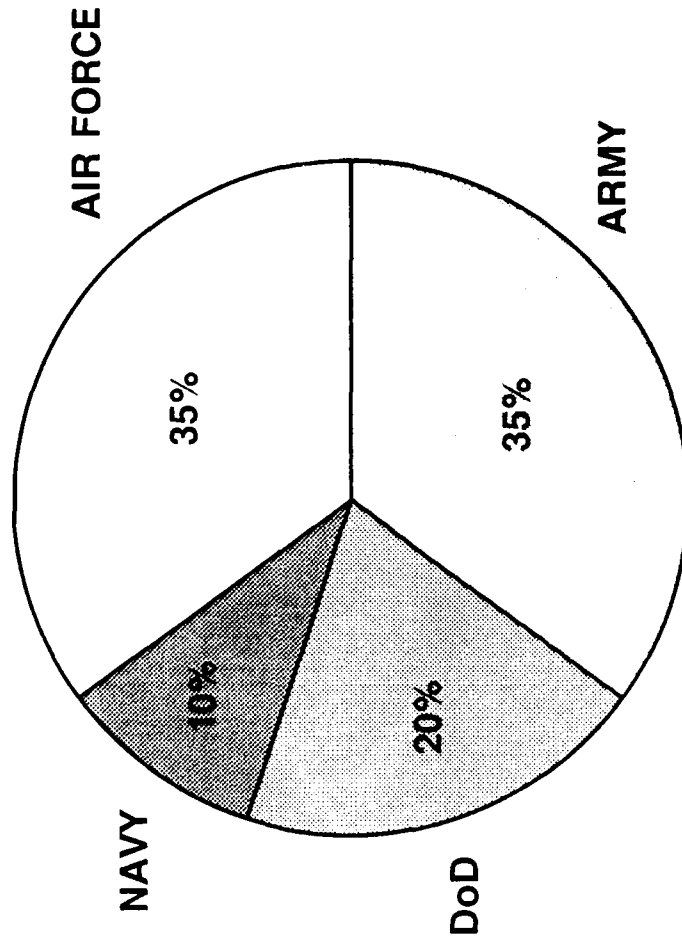
|             |       |
|-------------|-------|
| OPERATIONAL | TAC'S |
| NODES       | 47    |
|             | 16    |

|   |                   |
|---|-------------------|
| ● | C/30 IMP *        |
| △ | C/30 TAC **       |
| ~ | SATELLITE CIRCUIT |

\* C30 IMP = INTERFACE MESSAGE PROCESSOR = PACKET SWITCHING NODE (PSN)  
 \*\* C30 TAC = TERMINAL ACCESS CONTROLLER

#088-CV

# DDN REVISED REQUIREMENTS



REQUIREMENTS  
APPROXIMATELY 8,000 HOSTS

#088-CV

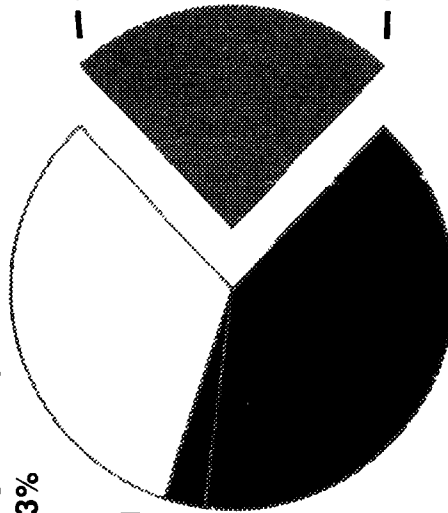
# USER ACTIVATION/NETWORK EXPANSION WORK PLAN FY88

## RESOURCES

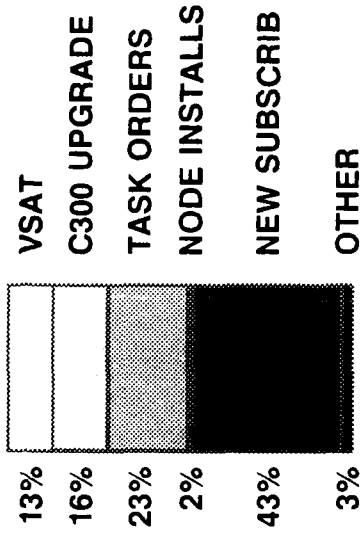
HARDWARE/SOFTWARE  
OPERATIONS SUPPORT  
33%

INFORMATION  
CENTER  
3%

LEASE  
40%



## WORK PLAN



**LEGEND:**

VSAT - VERY SMALL APERTURE TERMINAL (SATELLITE)

C300 - UPGRADES THROUGHPUT CAPACITY OF DDN NODE

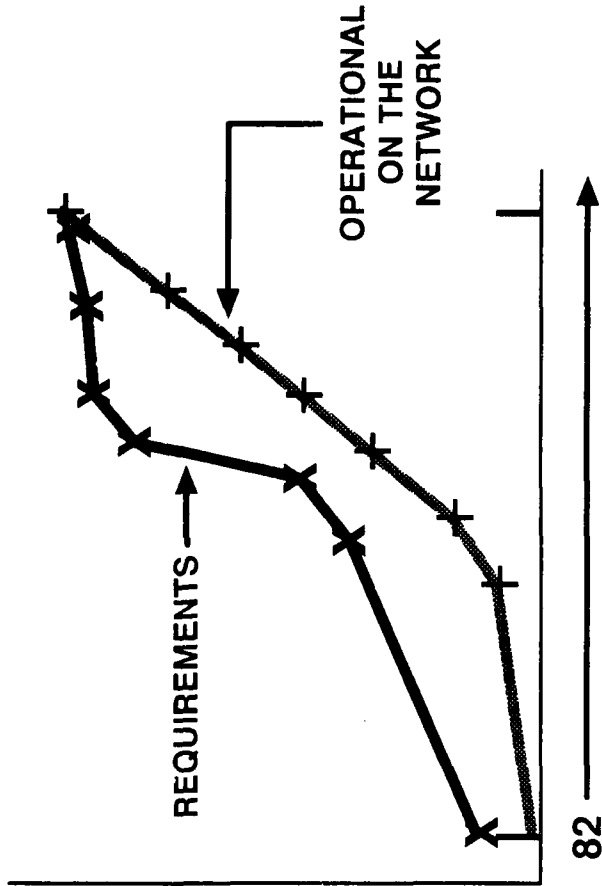
TASK ORDERS - ACTIVITIES PRIMARILY IN SUPPORT OF NETWORK SOFTWARE DEVELOPMENT

NODE INSTALLS - INSTALLATION ACTIVITIES; TO SHIP/INSTALL DDN NETWORK SWITCH

OTHER - ACTIVITIES IN GENERAL SUPPORT OF SPECIAL PROJECTS (CONCENTRATOR)

# DDN REQUIREMENTS BY FISCAL YEAR

SUBSCRIBERS (THOUSANDS)



- DIFFICULT TO DEFINE
  - 1982 FORECASTED 488 HOSTS FOR 1986
  - 1987 REQUIREMENTS OF 1079 HOSTS
  - 1990 REQUIREMENTS OF 7877 HOSTS
- PROBLEMS CREATED
  - TOPOLOGY
  - EQUIPMENT
  - RESOURCE IMPACT

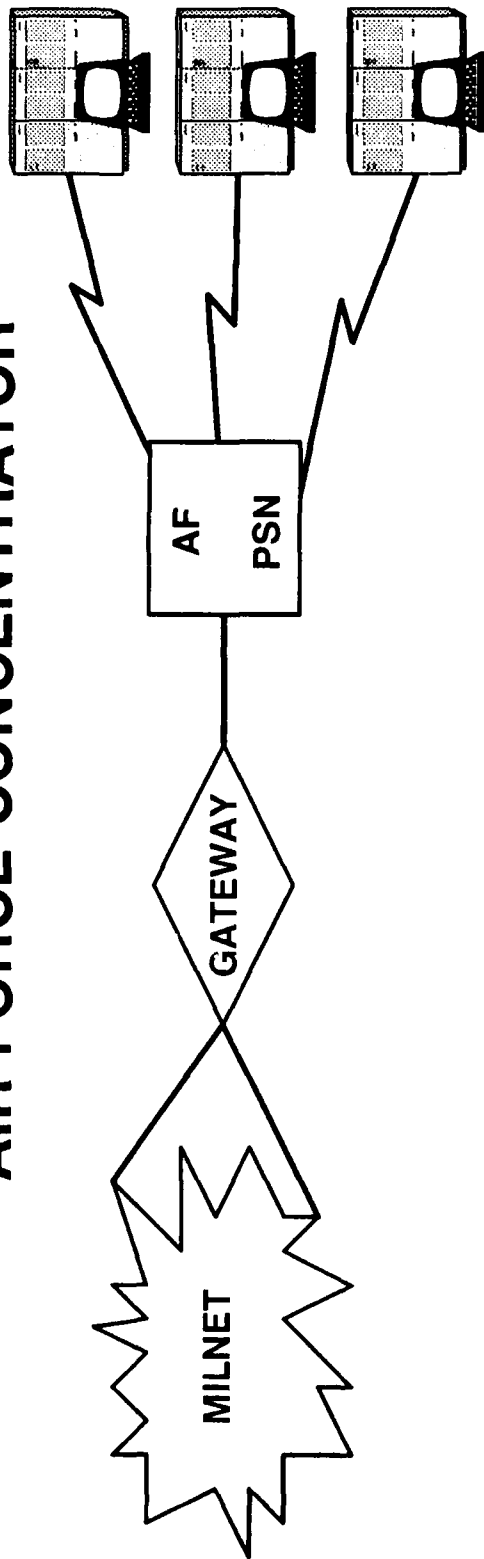
## **CURRENT INITIATIVES**

- **TIGER TEAMS: 26 COMPLETE/14 SCHEDULED, 700 PRE-CONFIGURED**
- **CONCENTRATOR: INSTALLED AT GUNTER AFS**
- **NETWORK OPTIMIZATION - NEW NODES, UPGRADES, RE-HOMES**
- **VSATS - 48 OPERATIONAL/TOTAL OF 100 THRU FY88**
- **T-1s - MORE TRANSMISSION CAPACITY FOR LESS \$\$\$**
- **C/300/PACKET SWITCHING NODE 7.0 - MORE CONNECTS/  
BANDWIDTH**
- **PRIORITIZATION - BY OJCS/SVCS/CINCS**

## **DDN TIGER TEAMS**

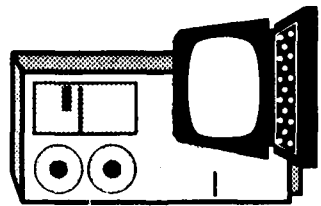
- **PURPOSE**
  - **MAXIMIZE USER CONNECTIONS**
- **ACCOMPLISHMENTS SINCE JULY 87**
  - **19 TEAMS DISPATCHED**
  - **22 NODES ACTIVATED**
  - **199 HOSTS CONNECTED**
  - **23 NEW TRUNKS ACTIVATED**
- **FUTURE**
  - **14 SITE VISITS PER MONTH, OR AS NEEDED**
  - **126 USER CONNECTIONS PER MONTH POSSIBLE**
  - **PRIORITIZATION WILL PERMIT MASTER SCHEDULE**

# AIR FORCE CONCENTRATOR

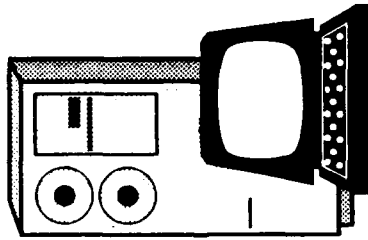


- PURPOSE - CONNECT MORE USERS FASTER; AVOID ACCESS COSTS
- PROTOTYPE AT GUNTER AFS
- SCHEDULE
  - PROTOTYPE INSTALLATION - 6 JANUARY 1988
  - CUTOVER - 11 JANUARY 1988
  - IOC - 29 JANUARY 1988
- AF IMPLEMENTATIONS - TBD
- ALTERNATE CONFIGURATIONS
  - GATEWAYS
  - MULTIPLE CONCENTRATOR PSNS

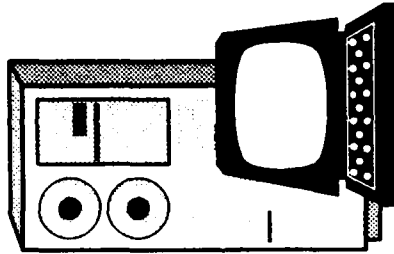
# NETWORK PERFORMANCE



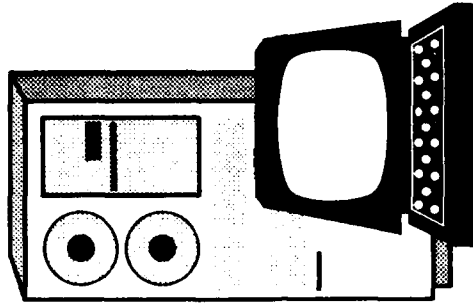
C/30E  
& PSN 5



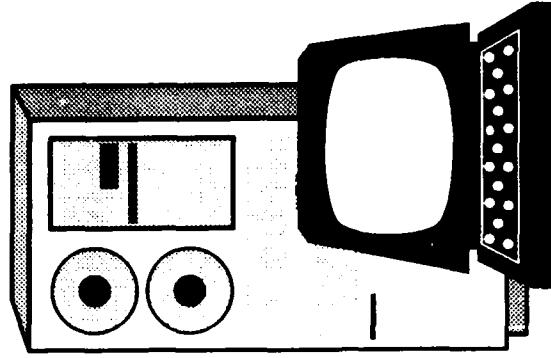
C/300  
& PSN 6



C/300  
& PSN 7



C/300  
& PSN 8/  
CONGESTION  
CONTROL



C/300  
& PSN 8/LARGE  
(DEVELOPMENT)  
NETWORK SUPPORT

NOW \_\_\_\_\_ MAY 88 \_\_\_\_\_ DEC 88 \_\_\_\_\_ JUL 89

## LEGEND:

C/30E - CURRENT VERSION OF PACKET SWITCH HARDWARE

C/300 - UPGRADE OF PACKET SWITCH HARDWARE - FASTER PROCESSOR

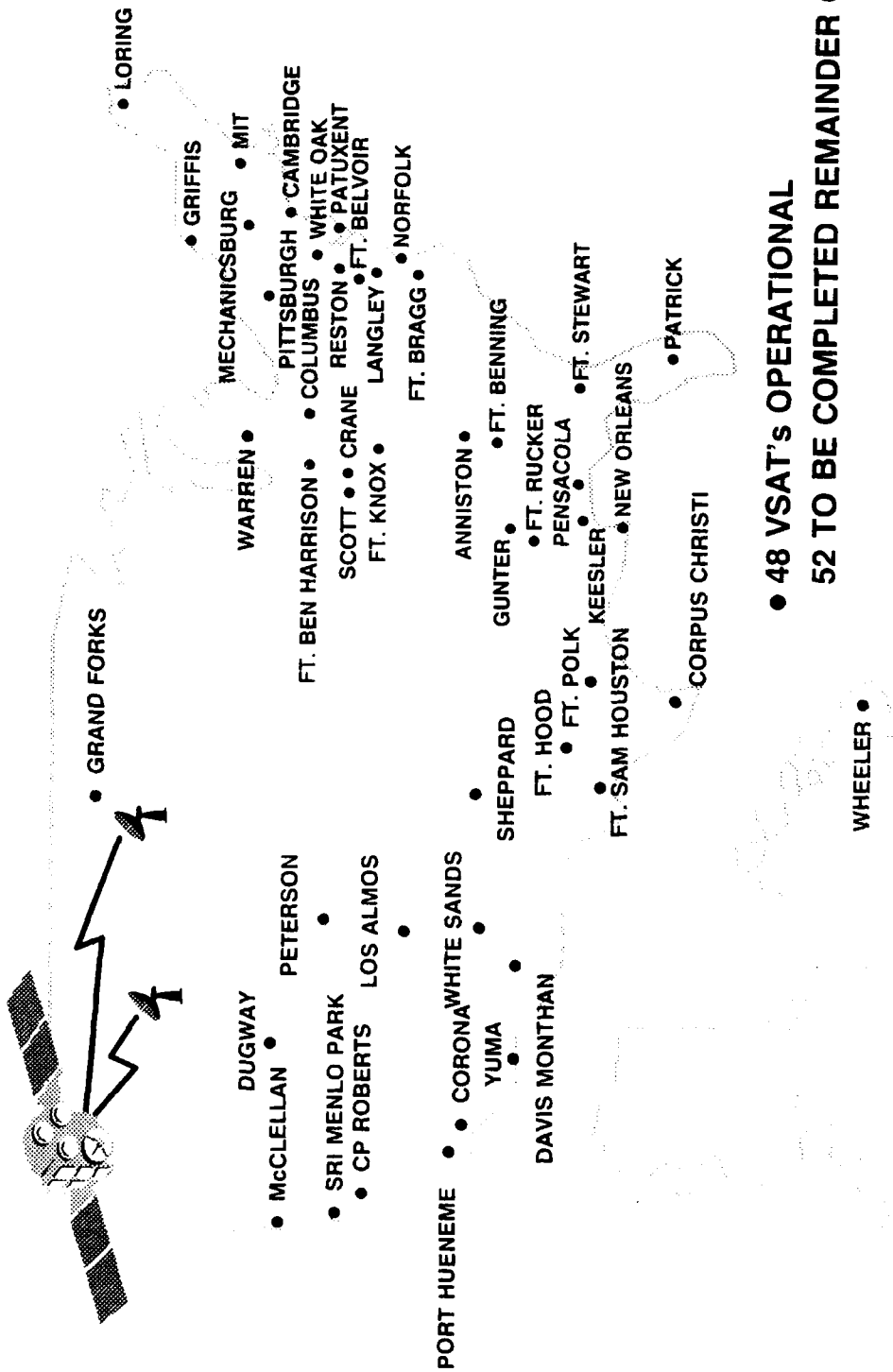
PSN6 - CURRENT VERSION OF PACKET SWITCH SOFTWARE

PSN7 - NEW PROTOCOL PROVIDING PERFORMANCE IMPROVEMENT

PSN8 - PROTOCOL PROVIDING CONGESTION CONTROL AND LARGE NET SUPPORT

#088-CV

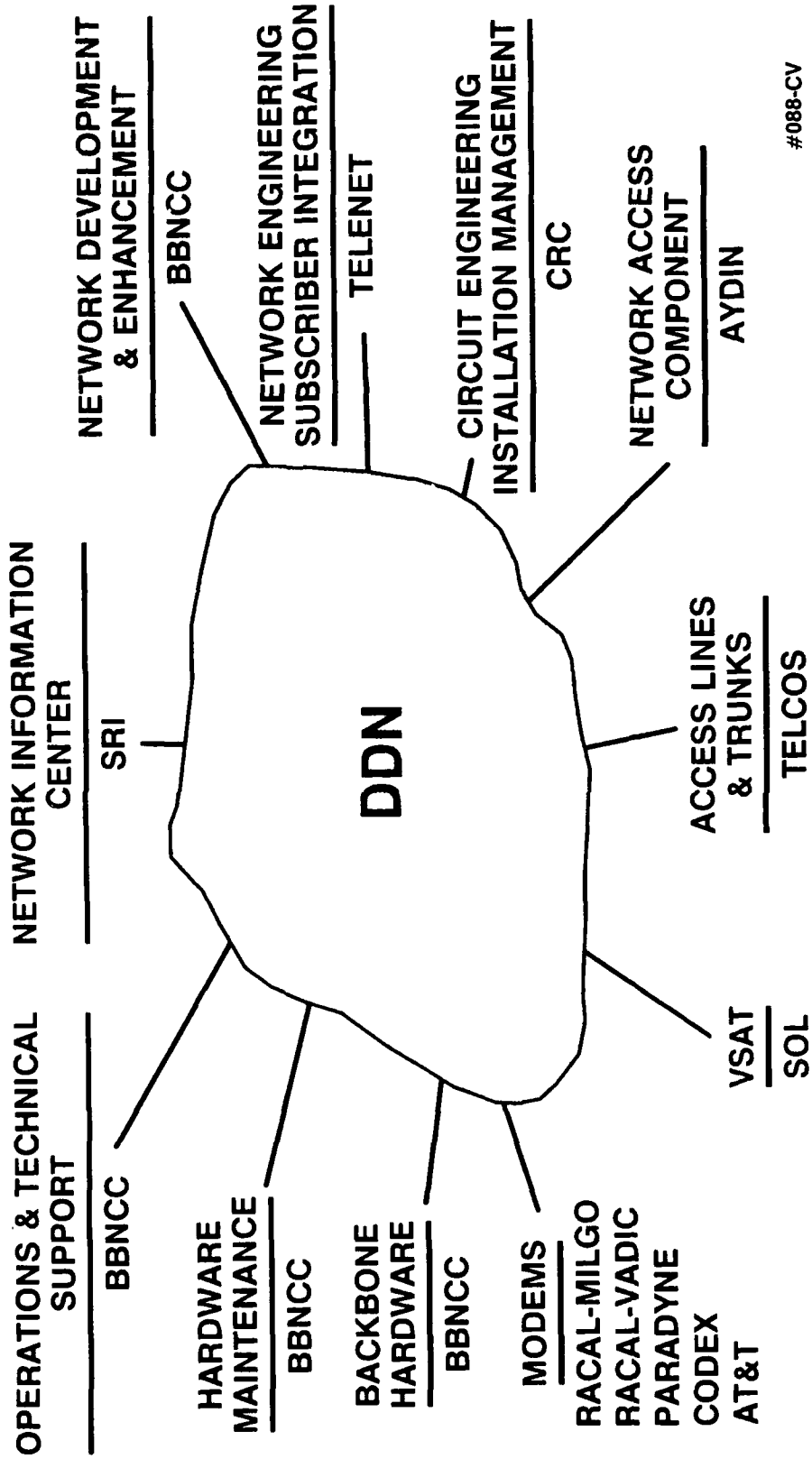
# VERY SMALL APERTURE TERMINAL



● 48 VSAT's OPERATIONAL  
 52 TO BE COMPLETED REMAINDER CY 88

#088-CV

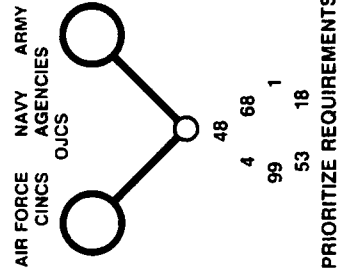
# CONTRACTS



#088-CV

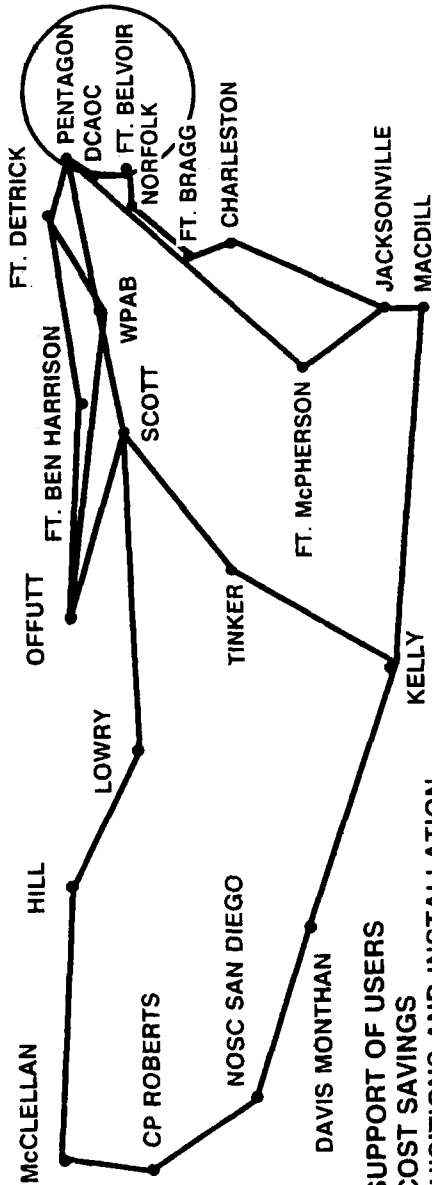
## SUBSCRIBER PRIORITIZATION

- WHY?
  - DDN WILL WORK IN THE RIGHT ORDER
  - USERS WILL KNOW WHERE THEY STAND
  - THERE ARE LIMITED RESOURCES
- WHO WILL PRIORITIZE? - OJCS/SVCS/CINCS
  - STARTED NOV 87 SCHEME
  - INTEGRATE SERVICE NEEDS THROUGH FY90
  - NETWORK/THEATER PRIORITIES
- RESULTS? MAR 88

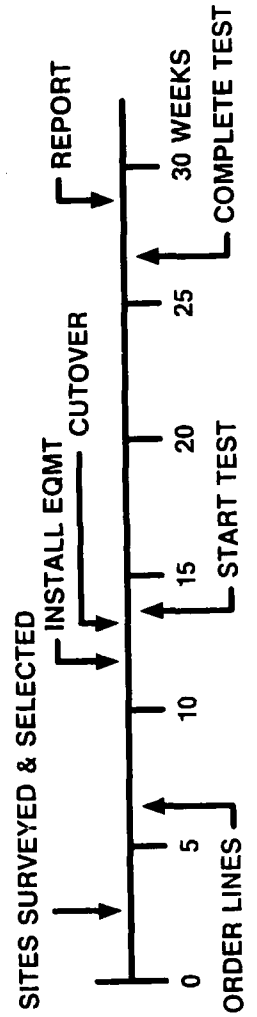


#088-CV

# DDN T-1 LINES



- GOAL
  - T1 BACKBONE SUPPORT OF USERS
  - T1 BACKBONE COST SAVINGS
  - FASTER T1 ACQUISITIONS AND INSTALLATION
  - WIDE DIVERSITY OF OPTIONS
- TIMELINE



# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600)

## CURRENT

| <u>CONTRACT NO.</u> | <u>DESCRIPTION</u>                                                                                                                                                                                                                                                                   | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u>                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|-----------------------------------------------------------------------------------------|
| DCA200-88-C-0005    | DDN NETWORK DEVELOPMENT AND ENHANCEMENT<br><ul style="list-style-type: none"> <li>• PACKET SWITCH, TAC, GATEWAY AND MONITOR CENTER SOFTWARE DEVELOPMENT</li> <li>• HARDWARE DEVELOPMENT/ENGINEERING</li> <li>• NETWORK MODELING/ANALYSIS SUPPORT</li> <li>• DOCUMENTATION</li> </ul> | BBNCC            | TBD          | DEC 87 - DEC 88<br>1 OPTION YEAR<br><br>MODELING WILL BE COMPLETED IN A FUTURE CONTRACT |

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600)

## CURRENT

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                                                                                                          | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------|--------------|------------------------------|
| DCA200-85-C-0007       | NETWORK ACCESS COMPONENT<br>• SYNC/ASYNC TERM ACCESS CONTROLLER<br>• TERM EMULATION PROCESSOR<br>• HOST FRONT-END PROCESSOR | AYDIN MONITOR    | \$18.1M      | AUG 87 - DEC 91              |
|                        |                                                                                                                             |                  |              | DEPLOYMENT                   |

#088-CV

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) CURRENT

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                         | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u>                                                           |
|------------------------|--------------------------------------------|------------------|--------------|----------------------------------------------------------------------------------------|
| DCA200-87-C-0001       | DDN HARDWARE<br><u>MAINTENANCE</u>         | BBNCC            | \$5M         | OCT 87 - OCT 88                                                                        |
|                        | • WORLDWIDE<br>DDN HARDWARE<br>MAINTENANCE |                  | \$5M         | <u>2ND OPTION</u><br>OCT 88 - OCT 89<br>BEING CONSIDERED<br>FOR FUTURE<br>COMPETITION. |

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) CURRENT

| <u>CONTRACT NO.</u> | <u>DESCRIPTION</u>                                                                                                                                                                         | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u>      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|-----------------------------------|
| DCA200-87-C-0018    | DDN NETWORK ENGINEERING &<br>SUBSCRIBER INTEGRATION<br>SUPPORT                                                                                                                             | TELENET          | \$5M         | FEB 88 - JAN 89                   |
|                     | <ul style="list-style-type: none"> <li>• INTEGRATE SUBSCRIBER HOSTS/<br/>TERMINALS ON DDN</li> <li>• HOST-INTERFACE TECHNICAL<br/>SUPPORT</li> <li>• DCA PACIFIC/EUROPE SUPPORT</li> </ul> |                  |              | TO BE INCLUDED<br>IN SII CONTRACT |

#088-CV

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) CURRENT

| <u>CONTRACT NO.</u> | <u>DESCRIPTION</u>                                                                                                                                                                                                        | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u>         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|--------------------------------------|
| DCA200-87-C-0013    | DDN CIRCUIT ENGINEERING & INSTALLATION MANAGEMENT SUPPORT                                                                                                                                                                 | CRC              | \$4.2M       | JAN 88 - JAN 89                      |
|                     | <ul style="list-style-type: none"> <li>● PROCESS ALL DDN TELECOMMUNICATIONS SERVICE REQUEST (TSR) ACTIONS</li> <li>● SITE SURVEY, INSTALLATION MANAGEMENT OF NODES/HOSTS</li> <li>● DCA PACIFIC/EUROPE SUPPORT</li> </ul> |                  |              | 2 ADDITIONAL ONE YEAR OPTION PERIODS |

# MAJOR CONTRACTUAL EFFORTS

## DCS DATA SYSTEMS (B600)

### CURRENT

| <u>CONTRACT NO.</u> | <u>DESCRIPTION</u>                                                                                                                                                | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|------------------------------|
| DCA200-87-C-0020    | NETWORK INFORMATION CENTER<br>• NETWORK ACCESS SYSTEM<br>• SECURITY AUDIT TRAIL<br>• NETWORK STATISTICS FOR USAGE BILLING<br>• USER SERVICE DESK (TERMINAL USERS) | SRI              | \$4M         | FEB 88 - JAN 89              |

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) CURRENT

| <u>CONTRACT NO.</u> | <u>DESCRIPTION</u>                                                                                                                                                                              | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u>                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|----------------------------------------------------------------------------------------------|
| DCA200-86-C-0013    | <u>DDN-OPERATIONS/TECHNICAL</u><br>• OPERATE NETWORK MONITOR CENTERS<br>• INSTALL/TEST ALL DDN HARDWARE<br>• PRE-INSTALLATION ENGINEERING<br>• DDN TRAINING<br>• OPERATIONS STATISTICS/ANALYSIS | BBNCC            | \$16M        | MAY 87 - APR 88<br><br>EXTENSION BEING NEGOTIATED WHILE COMPETITIVE ACTION IS BEING PREPARED |

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u> | <u>INCUMBENT</u>                | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|--------------------|---------------------------------|------------------------------|
| DCA200-86-D-0005       | 1200 BAUD MODEM    | RACAL-VADIC<br>W/4 1-YR OPTIONS | APR 86 - APR 87              |

ISSUES/STATUS:

- ADJUSTMENT TO MAXIMUM QUANTITIES APPROVED BY DECCO.
- CONTRACT MODIFICATION EFFECTIVE 16 APRIL.

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600)

## FUTURE

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                                                                                                                                       | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u>                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|---------------------------------------------------------------|
|                        | <u>DDN BACKBONE HARDWARE</u>                                                                                                                             |                  | \$9M         | APR 88 - APR 89                                               |
|                        | <ul style="list-style-type: none"> <li>• DDN PACKET SWITCHES (C-30)</li> <li>• TERMINAL ACCESS CONTROLLER</li> <li>• MONITORING CENTER (C-70)</li> </ul> |                  |              | SOLE SOURCE FOR BBN-PECULIAR HARDWARE.                        |
|                        |                                                                                                                                                          |                  |              | OTHER HARDWARE (MODEMS, CABINETS, CABLES) ARE BEING COMPETED. |

# MAJOR CONTRACTUAL EFFORTS DCS DATA SYSTEMS (B600) FUTURE

| <u>DESCRIPTION</u>                                                                                                                                                | <u>VALUE RANGE</u> | <u>ANNOUNCEMENT DATE</u> | <u>PERIOD OF PERFORMANCE</u>          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|---------------------------------------|
| SURVEY, INSTALLATION,<br>& INTEGRATION<br><br>• SITE SURVEY<br>• EQUIPMENT STAGING<br>• INSTALLATION<br>• NETWORK INFORMATION<br>CENTER<br>• CIRCUIT PROVISIONING | TBD                | APR 88                   | MAR 89 - FEB 90<br><br>W/OPTION YEARS |

# MAJOR DCEC CONTRACTUAL EFFORTS

## CURRENT

| <u>CONTRACT NO.</u> | <u>DESCRIPTION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>INCUMBENT</u> | <u>VALUE</u>                         | <u>PERIOD OF PERFORMANCE</u>                                                                              |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| DCA100-86-C-0013    | DEFENSE COMMUNICATIONS SYSTEMS SWITCHED NETWORK SYSTEM ENGINEERING AND TECHNICAL ASSISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CSC              | \$2,295K                             | DEC '86-DEC '87                                                                                           |
|                     | <ul style="list-style-type: none"> <li>● DSN TASKS:               <ul style="list-style-type: none"> <li>- SPEC AND STDS (CCS)</li> <li>- INTERFACE CRITERIA</li> <li>- IMPACT OF THE ISDN</li> <li>- TIP FOR DSN ROUTING</li> <li>- MASTER PLAN FOR TESTING</li> </ul> </li> <li>● SECURE VOICE SYSTEM TASKS:               <ul style="list-style-type: none"> <li>- RED SWITCH NETWORK ANALYSIS</li> <li>- INTERFACE AND CONTROL CRITERIA</li> </ul> </li> <li>● INTEGRATED DATA SYSTEM (IDS) TASK AREAS:               <ul style="list-style-type: none"> <li>- INFOSEC SECURITY REQUIREMENTS ANALYSIS</li> <li>- FUNCTIONAL REQUIREMENTS FOR RECONSTITUTION</li> </ul> </li> </ul> | \$1,958K         | <u>1ST OPTION</u><br>DEC '87-DEC '88 |                                                                                                           |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  | \$1,481K                             | <u>2ND OPTION</u><br>DEC '88-DEC '89<br>TO BE RECOMPETED-<br>ANTICIPATED<br>ANNOUNCEMENT<br>DATE: APR '89 |

# MAJOR DCEC CONTRACTUAL EFFORTS

## CURRENT

| <u>CONTRACT NO.</u> | <u>DESCRIPTION</u>                                                                                                                                                                                                                                           | <u>INCUMBENT</u>   | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u>                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------|---------------------------------------------------------|
| DCA100-88-C-0008    | DEFENSE DATA NETWORK MONITORING CENTER<br><ul style="list-style-type: none"> <li>• EVALUATE APPLICABILITY OF DoD 5200.28-STD (ORANGE BOOK) CRITERIA TO MONITORING CENTER</li> <li>• DEVELOP SECURITY DESIGN FOR NEXT-GENERATION MONITORING CENTER</li> </ul> | INTERMETRICS, INC. | \$424K       | NOV 87 - NOV 88<br><u>1ST OPTION</u><br>NOV 88 - NOV 89 |

# MAJOR DCEC CONTRACTUAL EFFORTS

## FUTURE

| <u>DESCRIPTION</u>                                                                                                                                                                          | <u>VALUE RANGE</u> | <u>ANTICIPATED ANNOUNCEMENT DATE</u> | <u>PERIOD OF PERFORMANCE</u>                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------|----------------------------------------------------------------------------------|
| DATA COMMUNICATIONS PROTOCOLS                                                                                                                                                               | 1-5M               | NOV 87                               | JUN 88 - JUN 89                                                                  |
| <ul style="list-style-type: none"> <li>• TEST AND EVALUATION OF ISO PROTOCOLS</li> <li>• DOD TO ISO TRANSITION ENGINEERING</li> <li>• EVLUATION OF ENHANCEMENTS TO ISO PROTOCOLS</li> </ul> |                    |                                      | <u>1ST OPTION</u><br>JUN 89 - JUN 90<br><u>2ND OPTION</u>                        |
| <ul style="list-style-type: none"> <li>• INTERNET ENGINEERING</li> <li>• UPDATE OF THE PROTOCOL LABORATORY</li> </ul>                                                                       |                    |                                      | JUN 90 - JUN 91<br>TO BE RECOMPETED-<br>ANTICIPATED ANNOUNCEMENT<br>DATE: NOV 90 |

#088-CV

# MAJOR DCEC CONTRACTUAL EFFORTS

## FUTURE

| <u>DESCRIPTION</u>                                                                                                                                                                                                                                    | <u>VALUE RANGE</u> | <u>ANTICIPATED<br/>ANNOUNCEMENT DATE</u> | <u>PERIOD OF<br/>PERFORMANCE</u> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------|----------------------------------|
| INTERNET ENGINEERING TESTBED<br>● CONDUCT PERFORMANCE TESTS ON THE INTERNET AND ANALYZE RESULTS<br>● DEVELOP IMPROVED ROUTING STRATEGIES FOR THE INTERNET SYSTEM<br>● FURTHER DEVELOP ISO-DOD APPLICATION LEVEL GATEWAYS IN SUPPORT OF OSI TRANSITION | 0-1M               | OCT 88                                   | MAR 89 - APR 89                  |

## **SUMMARY**

- **OUR MISSION IS TO PROVIDE  
DoD DATA COMMUNICATIONS  
SERVICES**
- **DDN CONTINUES TO GROW  
IN RESPONSE TO DATA  
SUBSCRIBER DEMANDS**
- **SIGNIFICANCE OF INDUSTRY**
- **OUR GOAL IS TO RESPOND  
TO USER NEEDS**

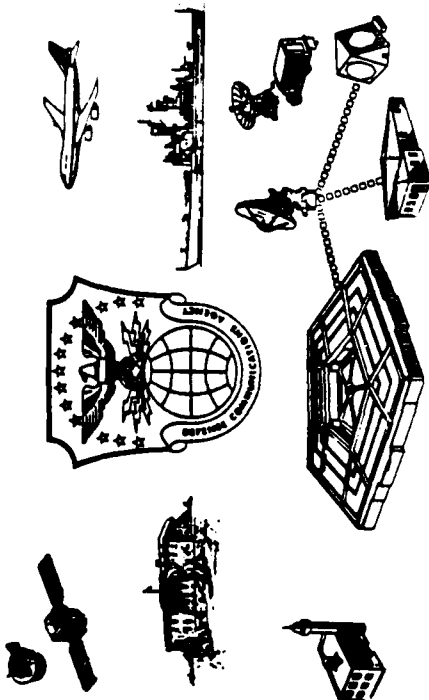
# DSCS

## DEFENSE SATELLITE COMMUNICATIONS SYSTEM

### INFORMATION BRIEFING FOR INDUSTRY DAY

#091-CV

## DEFENSE SATELLITE COMMUNICATIONS SYSTEM



## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS:

- WHO: DOD/JCS/CINC'S/MILDEPS
- WHAT MSN: SURVIVABLE AND WIDEBAND  
LONG-HAUL COMMUNICATIONS
- HOW: SHF SATELLITE COMMUNICATIONS
- WHY: UNIQUE AND VITAL REQUIREMENTS
- PRODUCTS: GROUND/SPACE/CONTROL SUBSYSTEMS
- DELIVERABLES: TERMINALS/SATELLITES/CONTROL  
EQUIPMENT/SYSTEM ENGINEERING  
AND TECHNICAL ASSISTANCE

## CONTRACT DATA

### CONTRACTING AGENCIES:

USA SATELLITE COMMUNICATIONS AGENCY  
USAF SPACE DIVISION

### USER COMMANDS/AGENCIESMULTI-SERVICE

POINTS OF CONTACT: COL HENRY (USA)  
COL WALKER (USAF)

### KEY LOCATIONS:

FT. MONMOUTH NJ  
LOS ANGELES AFS CA

### CONTRACT PERIOD:

FY 88-93

### DOLLAR VALUE:

\$1.73B (ARMY)  
\$1.72B (AF)

## KEY MILESTONES

- DSCS OPERATIONAL SUPPORT SYSTEM/DSCS  
AUTOMATIC SPECTRUM ANALYZER (DOSS/DASA)
- RFP RELEASE: FEB 88
  - CONTRACT AWARD: SEP 88
- AN/GSC-XX EARTH TERMINAL
- RFP RELEASE: JAN 90
  - CONTRACT AWARD: DEC 90
- GENERIC TRAINING DEVICES
- RFP RELEASE: FEB 88
  - CONTRACT AWARD: SEP 88

#091-CV

AD-A195 551

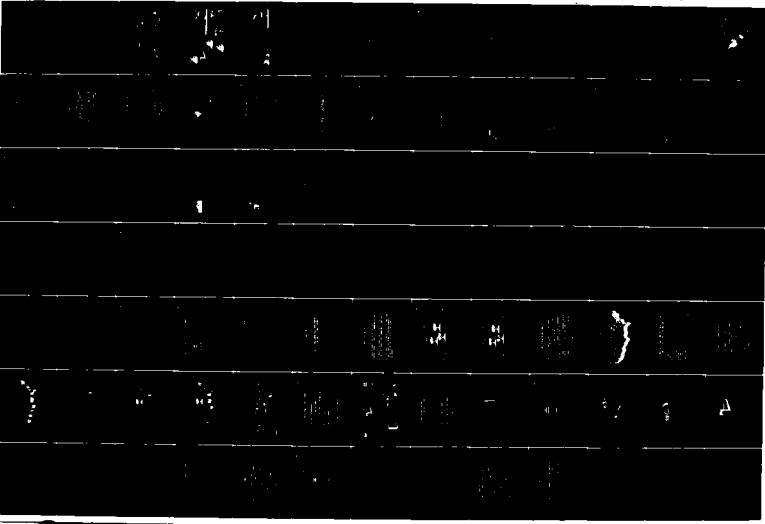
AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS  
ASSOCIATION) SYMPOSIUM (2ND... (U) DEFENSE COMMUNICATIONS  
AGENCY ARLINGTON VA APR 88

4/3

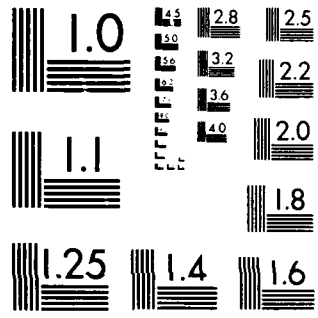
UNCLASSIFIED

F/G 25/3

NL



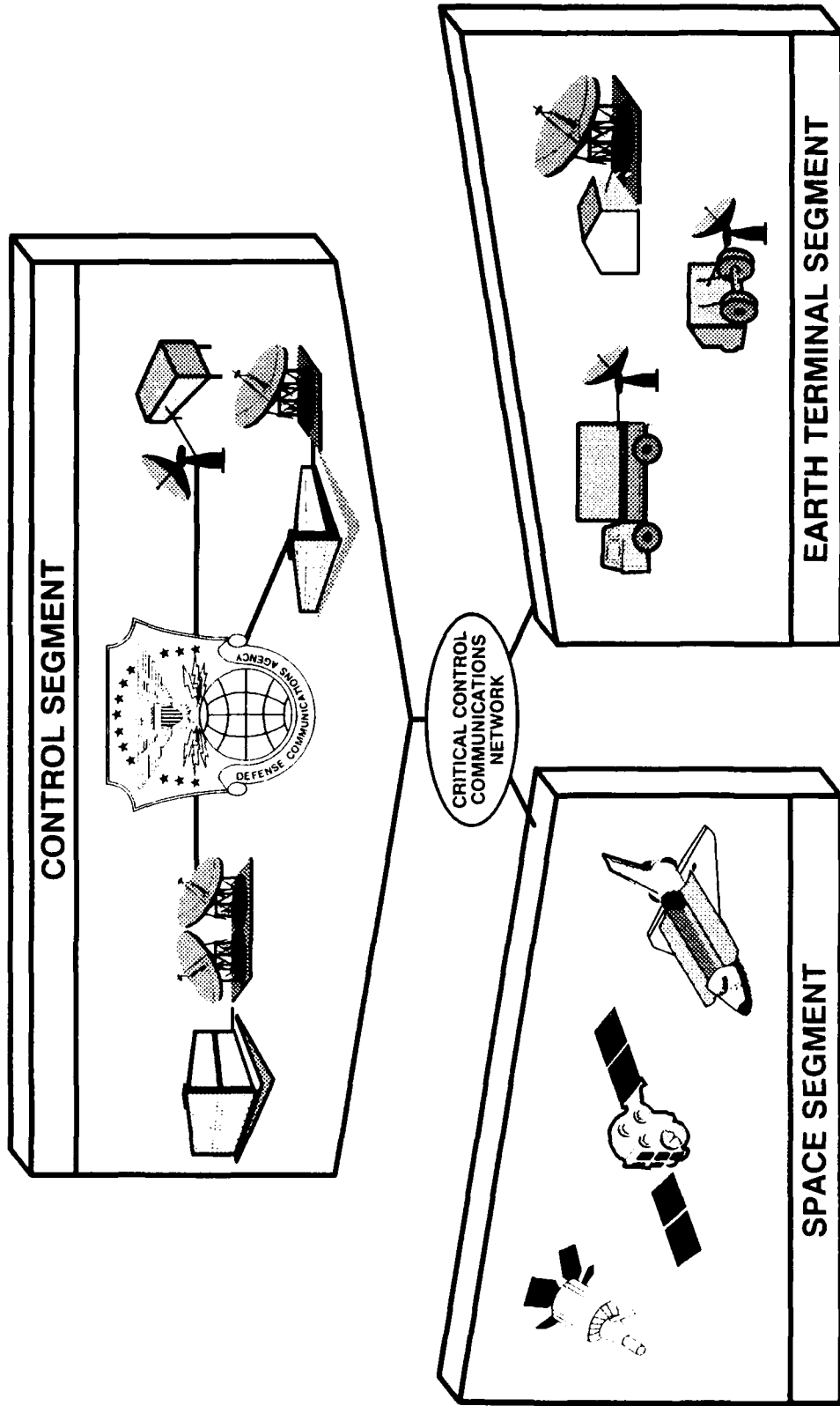
(P)



# **DSCS OVERVIEW**

- **MISSION**
- **TODAYS NETWORK**
- **UNIQUE USER REQUIREMENTS**
- **CONTRACTUAL SUPPORT**
- **SUMMARY**

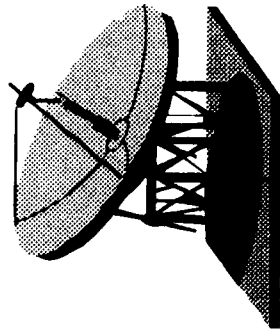
# PRIMARY SEGMENTS OF THE DSCS



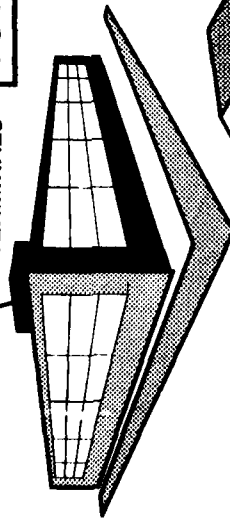
#091-CV

# EARTH TERMINAL SEGMENT

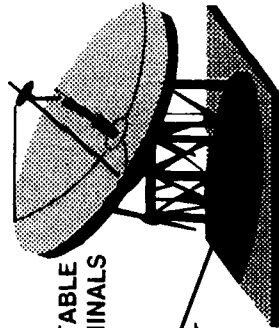
|        | FIXED |       | MOBILE |       |
|--------|-------|-------|--------|-------|
|        | NOW   | FY 92 | NOW    | FY 92 |
| TYPES  | 12    | 8     | 17     | 20    |
| TOTALS | 126   | 185   | 227    | 581   |



HEAVY EARTH TERMINALS



MEDIUM EARTH TERMINALS



TRANSPORTABLE EARTH TERMINALS

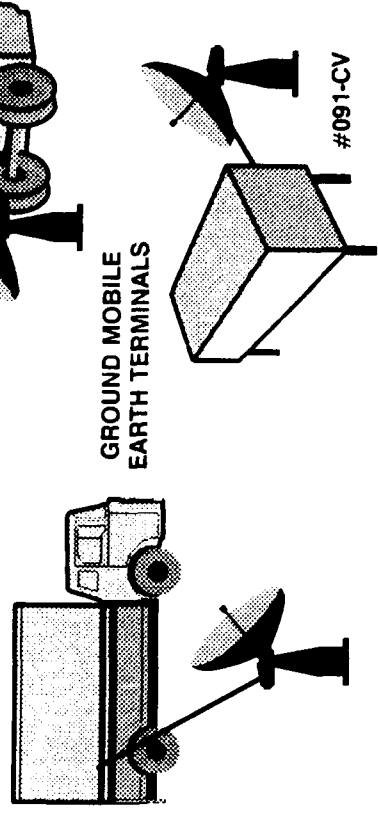
AIRBORNE EARTH TERMINALS



SHIP BOARD EARTH TERMINALS

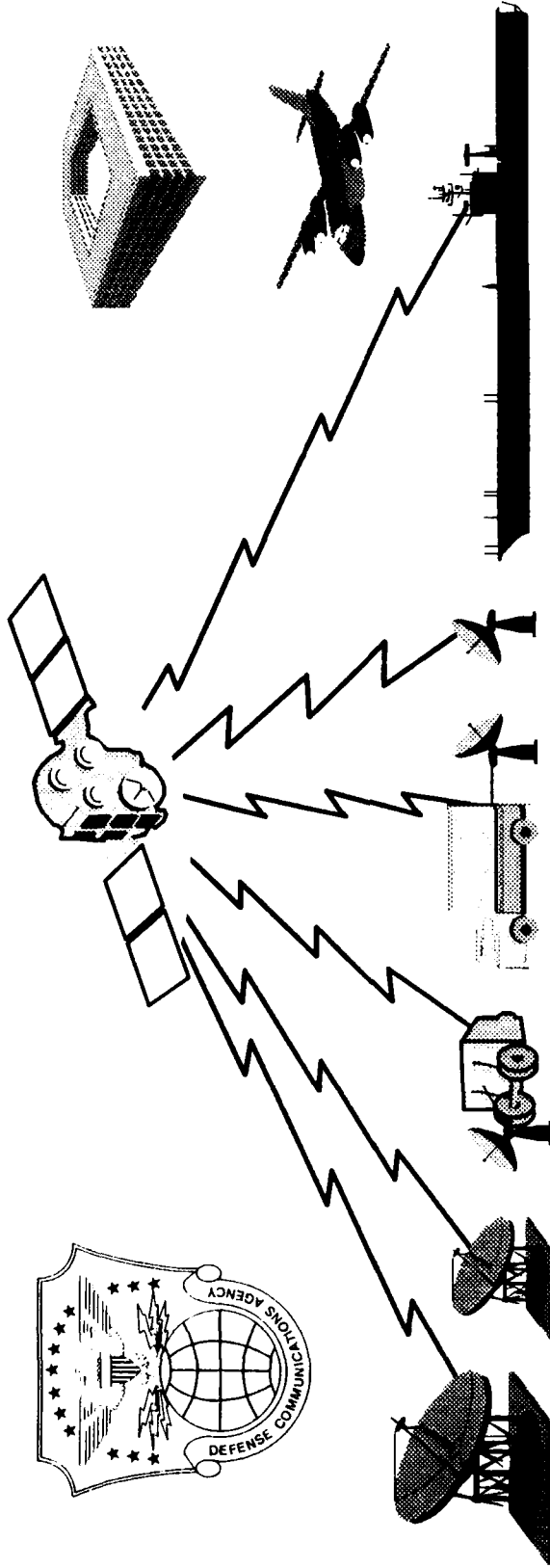


GROUND MOBILE EARTH TERMINALS



#091-CV

# DEFENSE SATELLITE COMMUNICATIONS SYSTEM

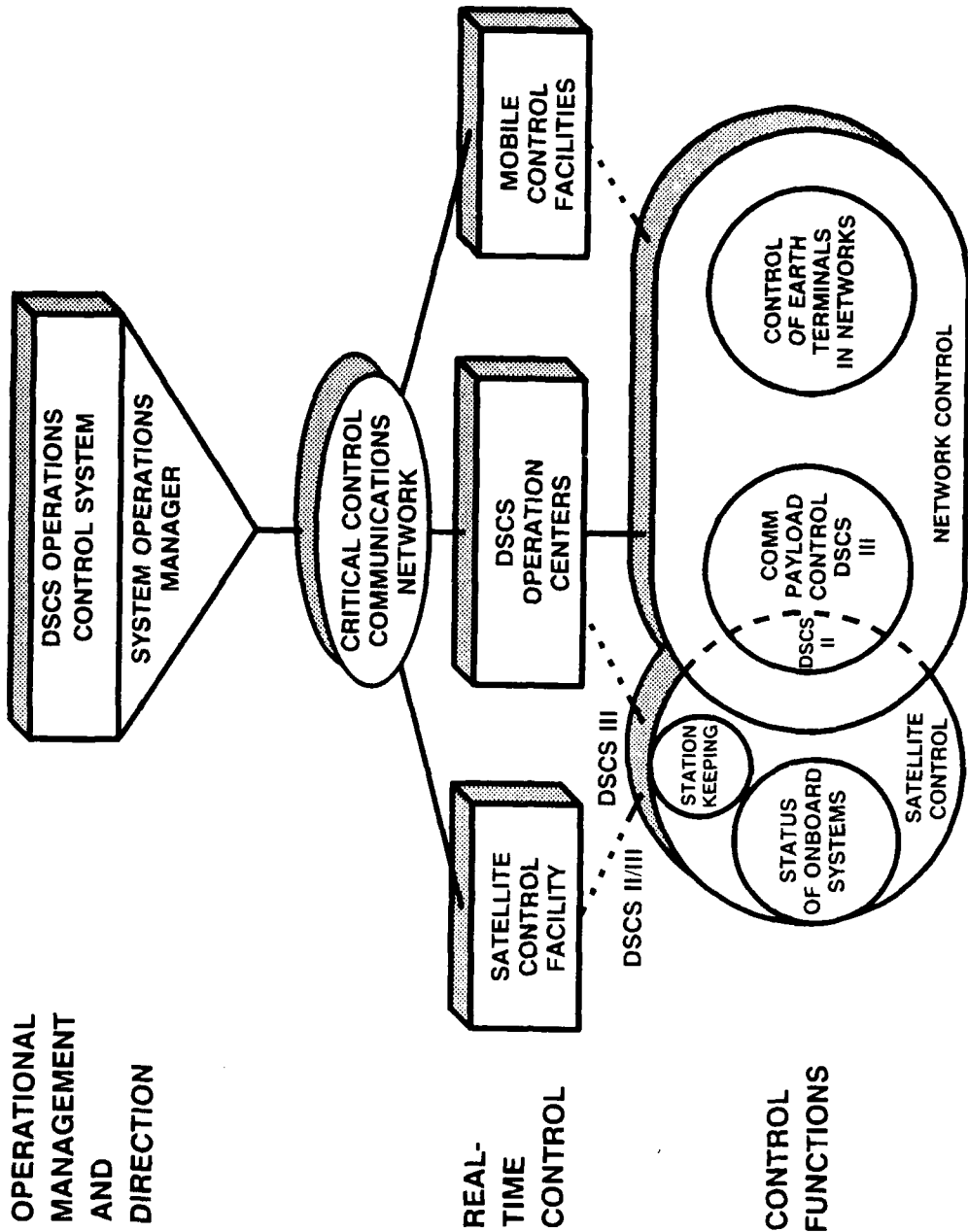


## MISSION

PROVIDE RESPONSIVE SUPER HIGH FREQUENCY WIDE-BAND AND ANTIJAM SATELLITE COMMUNICATIONS SUPPORTING CRITICAL NATIONAL, STRATEGIC, AND TACTICAL C3I REQUIREMENTS. SURVIVABLE DURING TRANS AND POST NUCLEAR ATTACK TO SUPPORT COMMUNICATIONS ESSENTIAL TO NATIONAL SURVIVAL

#091-CV

# CONTROL SEGMENT



#091-CV

## **SUMMARY**

- **OUR MISSION IS TO PROVIDE SURVIVABLE AND LONG-HAUL COMMUNICATIONS**
- **DSCS CONTINUES TO EXPAND IN RESPONSE TO USER REQUIREMENTS**
- **CONTRACTOR SUPPORT IS CRITICAL TO PROVIDE HARDWARE, SOFTWARE, AND SYSTEMS ENGINEERING/ TECHNICAL ASSISTANCE**

## **SECURE CONFERENCE PROJECT FEATURES**

- **SURVIVABLE**
  - **ANTI-JAM**
  - **HEMP PROTECTED**
  - **NON-SINGLE POINT SENSITIVE**
- **INTEROPERABLE**
  - **WORLDWIDE TERRESTRIAL AND SATELLITE  
CONNECTIVITY PROVIDING MAJOR END USER  
EQUIPMENT**
- **RESPONSIVE**
  - **30 SECOND CONFERENCE SET-UP TIME WITH  
5 LEVEL PREEMPTION**
- **SECURE**
  - **USER-TO-USER ENCRYPTION**

#091-CV

# **JAM RESISTANT SECURE COMMUNICATIONS PROJECT OBJECTIVES**

- **SURVIVABLE CONNECTIVITY**
  - **SATELLITE TERMINALS CLOSE TO USERS**
  - **END-TO-END HEMP PROTECTION**
  - **NUCLEAR SCINTILLATION PROTECTION**
- **JAM RESISTANT**
  - **ECCM EQUIPMENTS**
  - **SATELLITE MULTIPLE BEAM ANTENNA**
- **SECURE**
  - **USER-TO-USER ENCRYPTION**

**MAJOR DSCS CONTRACTUAL EFFORTS  
(DEPUTY DIRECTOR TRANSMISSION SYSTEMS)**

**FUTURE**

| <b>DESCRIPTION</b>                                                                              | <b>VALUE RANGE</b>                             | <b>ANNOUNCEMENT</b> | <b>PERIOD</b>                                         |
|-------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------|-------------------------------------------------------|
| DEFENSE SATELLITE COMMUNICATIONS<br>SYSTEM (DSCS) CONTRACTUAL TECHNICAL<br>ASSISTANCE           | APPROX. \$3M<br>TOTAL FOR<br>3 CONTRACT YEARS  | APR 89              | OCT 89 - SEP 90<br>OCT 90 - SEP 91<br>OCT 91 - SEP 92 |
| DEFENSE COMMUNICATIONS ENGINEERING<br>CENTER (DCEC) SYSTEMS ENGINEERING<br>TECHNICAL ASSISTANCE | \$6 - 10M<br>TOTAL FOR THE<br>3 CONTRACT YEARS | JUL 89              | MAR 90 - MAR 91<br>MAR 91 - MAR 92<br>MAR 92 - MAR 93 |

**MAJOR DSCS CONTRACTUAL EFFORTS  
(DEPUTY DIRECTOR TRANSMISSION SYSTEMS)**

**CURRENT (CONT)**

| CONTRACT NO.      | DESCRIPTION                                                                                                                                     | INCUMBENT                                             | VALUE                                     | PERIOD                                                |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------|-------------------------------------------------------|
| DCA-100-87-C-0134 | PROCURE ADDITIONAL SMART MULTI-CIRCUIT TERMINAL (SMCT) EQUIPMENT, DOCUMENTATION AND ILS TO SUPPORT TERRESTRIAL CRITICAL CONTROL CIRCUITS (TCCC) | STI                                                   | \$4.8 M                                   | SEP 87 - SEP 89                                       |
| DCA-100-87-C-0042 | DEFENSE COMMUNICATIONS ENGINEERING CENTER (DCEC) DSCS SYSTEMS ENGINEERING AND TECHNICAL ASSISTANCE (SETA)                                       | FEMME COMP<br>INC                                     | \$2,756,090<br>\$2,149,998<br>\$2,703,055 | MAR 87 - MAR 88<br>MAR 88 - MAR 89<br>MAR 89 - MAR 90 |
| DCA-100-88-C-0015 | DCEC DEFENSE COMMUNICATIONS SYSTEM (DCS) SETA                                                                                                   | AMERICAN<br>TELEPHONE &<br>TELEGRAPH/<br>HARRIS CORP. | \$711K<br>\$765K<br>\$784K                | NOV 87 - NOV 88<br>NOV 88 - NOV 89<br>NOV 89 - NOV 90 |

#091-CV

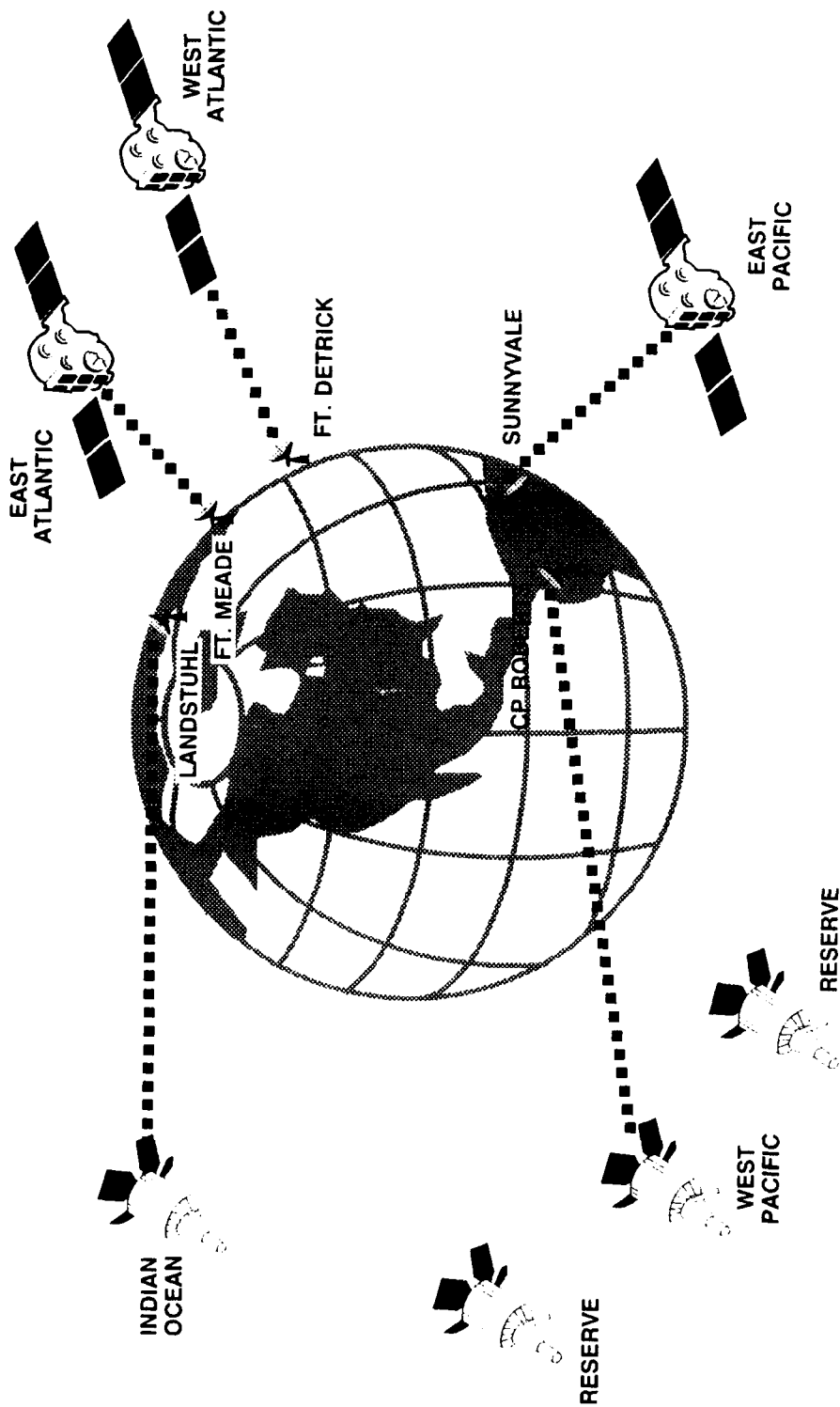
**MAJOR DSCS CONTRACTUAL EFFORTS  
(DEPUTY DIRECTOR TRANSMISSION SYSTEMS)**

**CURRENT**

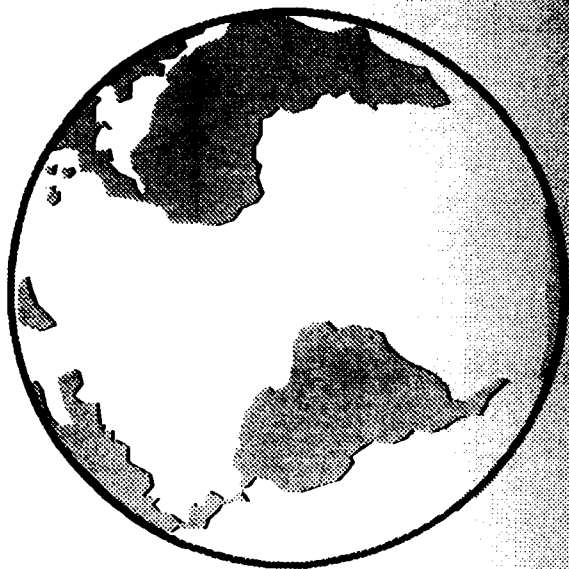
| CONTRACT NO.      | DESCRIPTION                                                                                                         | INCUMBENT                               | VALUE                                    | PERIOD                                                |
|-------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|-------------------------------------------------------|
| DCA-100-87-C-0003 | DEFENSE SATELLITE COMMUNICATIONS SYSTEM (DSCS) CONTRACTUAL TECHNICAL ASSISTANCE                                     | GENERAL TELEPHONE & ELECTRONICS (GTE)   | \$1,312,388<br>\$1,125,300<br>\$ 965,000 | NOV 86 - SEP 87<br>OCT 87 - SEP 88<br>OCT 88 - SEP 89 |
| DCA-100-86-C-0076 | PROCURE NEW/UPGRADED DSCS OPERATIONAL SUPPORT SYSTEM (DOSS) EQUIPMENT AND INTEGRATED LOGISTIC SUPPORT (ILS) PACKAGE | STANFORD TELECOMMUNICATIONS, INC. (STI) | \$10 M                                   | SEP 86 - MAY 88                                       |
| DCA-100-87-C-XXXX | PROCURE ADDITIONAL DOSS REMOTE OPERATOR CONSOLES AND MODIFICATION OF CONSOLE SOFTWARE                               | RJO ENTERPRISES                         | \$1 M                                    | FEB 88 - FEB 89                                       |

#091-CV

# DSCS SPACE SEGMENT



#091-CV



# JOINT DATA SYSTEMS SUPPORT CENTER

#058-CV

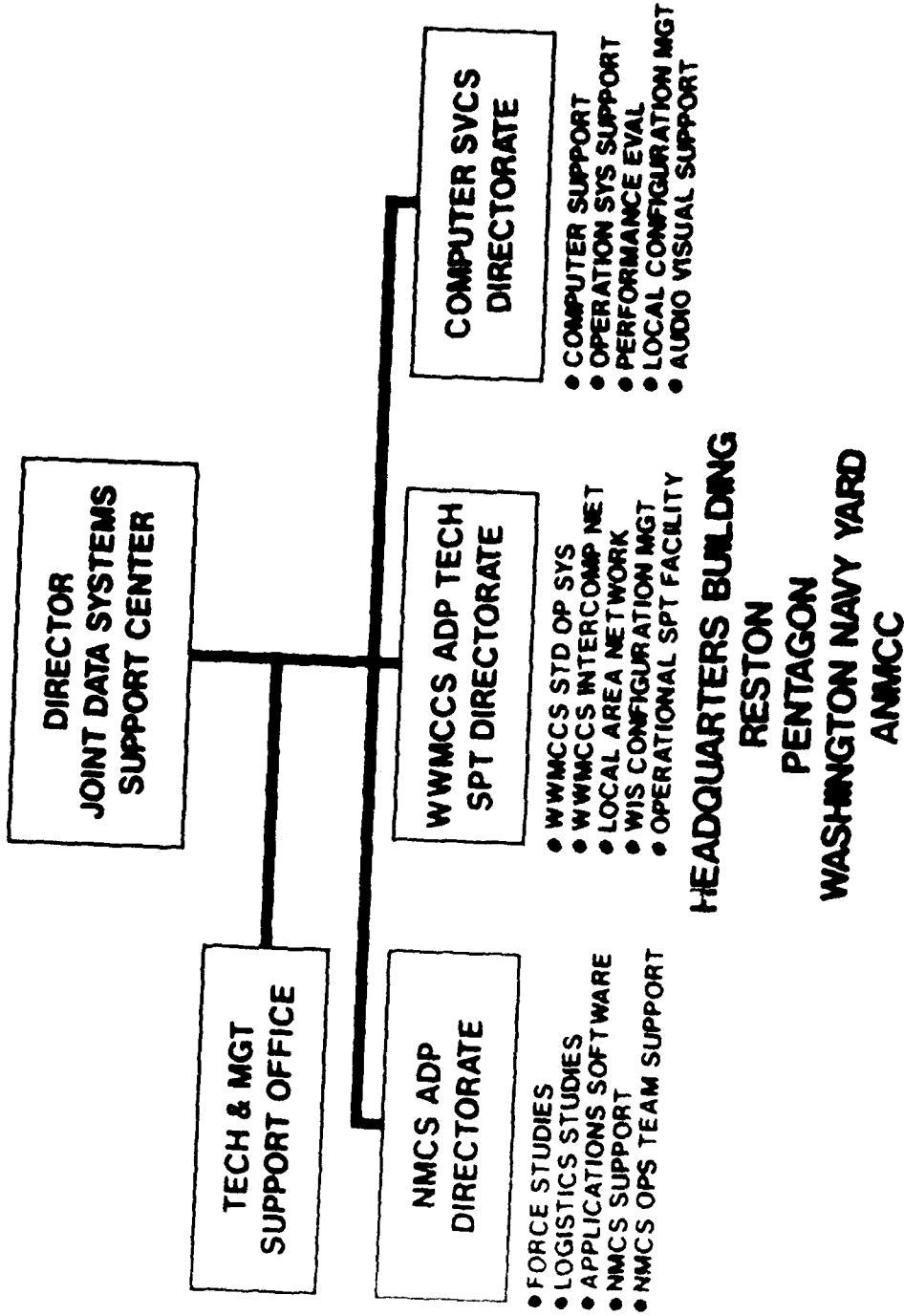
# **OVERVIEW**

- **JOINT DATA SYSTEMS SUPPORT CENTER**
- **FUTURE CONTRACTS**
- **SUMMARY**

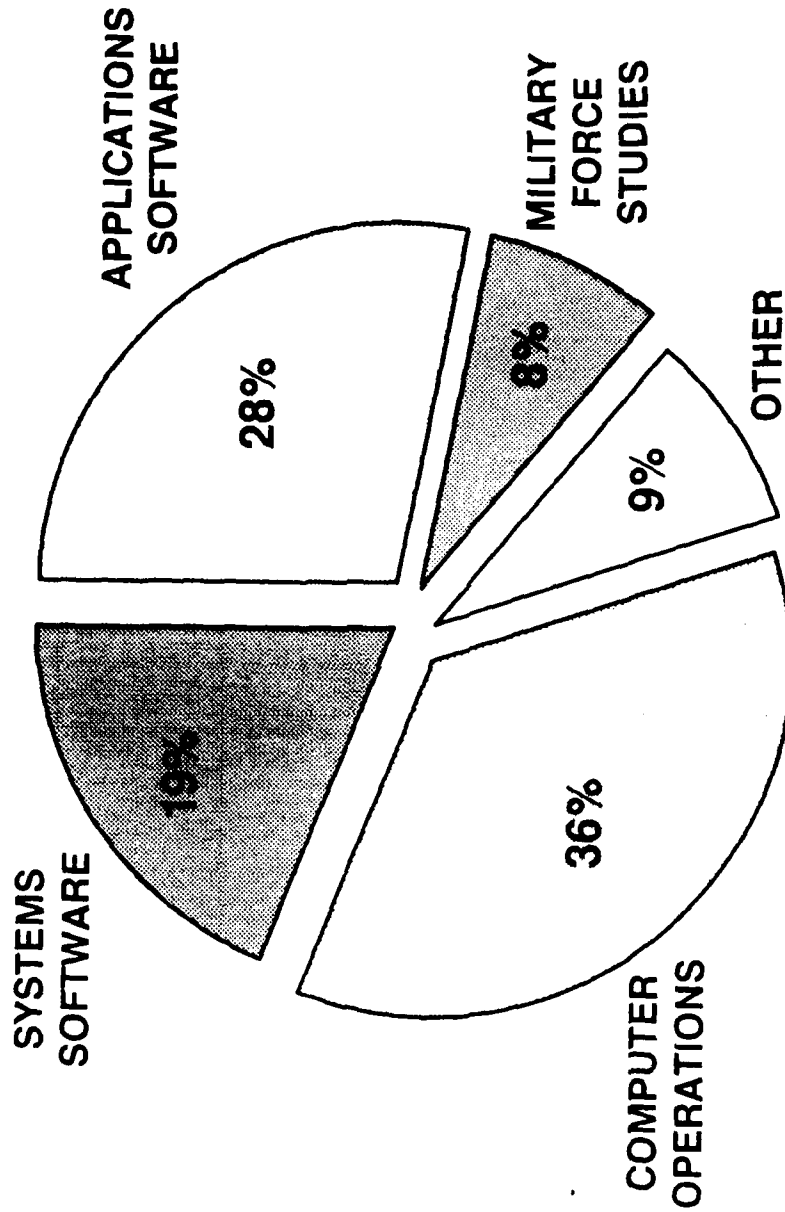
## **JDSSC MISSION**

- **PROVIDE CENTRALIZED TECHNICAL SUPPORT OF OPERATING SYSTEMS AND APPLICATIONS SYSTEMS FOR WWMCCS ADP, WIN AND OTHER ADP SYSTEMS TO OJCS, UNIFIED AND SPECIFIED COMMANDS AND OSD**
- **PROVIDE ANALYTICAL AND ADP OPERATIONAL SUPPORT TO OJCS, UNIFIED AND SPECIFIED COMMANDS AND OSD**
- **PROVIDE ADP SUPPORT AS SPECIFICALLY DIRECTED BY THE DIRECTOR, JOINT STAFF, TO THE WIS-JOINT PROGRAM MANAGER AND OTHER USERS**

# JDSSC ORGANIZATION



# RESOURCE ALLOCATION



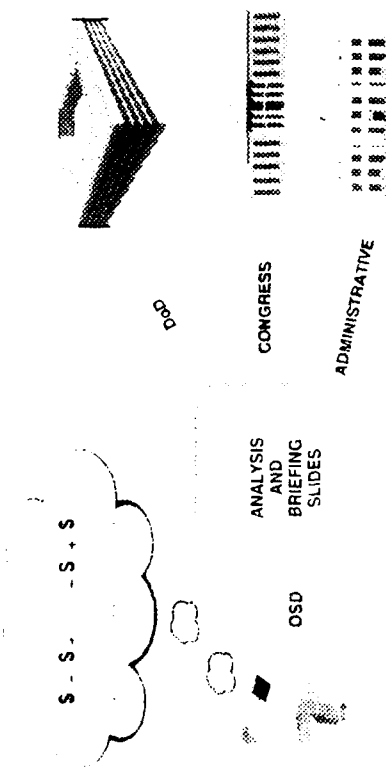
# CONTRACTORS

UNISYS \_\_\_\_\_ GENERAL SUPPORT  
COMPUTER SCIENCES CORPORATION \_\_\_\_\_ GENERAL SUPPORT  
HONEYWELL \_\_\_\_\_ GENERAL SUPPORT  
POTOMAC SYSTEMS ENGINEERING \_\_\_\_\_ OFFICE AUTOMATION  
SYSTEMS RESEARCH & APPLICATIONS  
CORPORATION \_\_\_\_\_ EXERCISE SUPPORT  
MITRE \_\_\_\_\_ WIS TRANSITION SUPPORT  
SYSTEMS APPLICATIONS INTERNATIONAL  
CORPORATION \_\_\_\_\_ STRATEGIC STUDIES  
SYNERGY \_\_\_\_\_ LOGISTICS SYSTEM DEVELOPMENT  
NAVAL POSTGRADUATE SCHOOL \_\_\_\_\_ LONG RANGE FORECASTING  
NAVAL REGIONAL DATA AUTOMATION CENTER \_\_\_\_\_ RISOP/SIOP SUPPORT  
7 COMM GROUP (USAF) \_\_\_\_\_ MULTICS  
BUREAU OF CENSUS \_\_\_\_\_ POPULATION/INDUSTRIAL NATIONS  
DEPARTMENT OF STATE \_\_\_\_\_ ASSESSMENT DATA  
DEPARTMENT OF TRANSPORTATION \_\_\_\_\_ ASSESSMENT DATA  
DEFENSE NUCLEAR AGENCY \_\_\_\_\_ VERIFICATION & VALIDATION  
ETC.  
•  
•  
•

# FUTURE CONTRACTS

#067-CV

## ANALYTIC SUPPORT TO OSD (STRATEGIC AND THEATRE NUCLEAR ANALYSIS)



## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS

WHO: OSD (PA&E AND ISP)  
 WHAT MSN: ANALYZE STRATEGIC DEFENSIVE FORCES, THEATER NUCLEAR FORCES, C3 AND STRATEGIC SPACE SYSTEMS, ETC.  
 HOW: RUN AND MAINTAIN COMPUTER SIMULATION MODELS  
 WHY: SUPPORT DoD'S PLANNING, PROGRAMMING, AND BUDGET SYSTEM, ARMS REDUCTION CONSIDERATIONS, RESPOND TO DoD, CONGRESSIONAL, AND ADMINISTRATION INQUIRIES  
 PRODUCTS: SOFTWARE DEVELOPMENT AND MAINTENANCE, TECHNICAL ANALYSES, FILE DEVELOPMENT AND MAINTENANCE  
 DELIVERABLES: TECHNICAL REPORTS, SYSTEM DOCUMENTATION, MODERNIZED SOFTWARE, NEW COMPUTER SIMULATION MODELS, DATA BASE UPDATES

## CONTRACT DATA

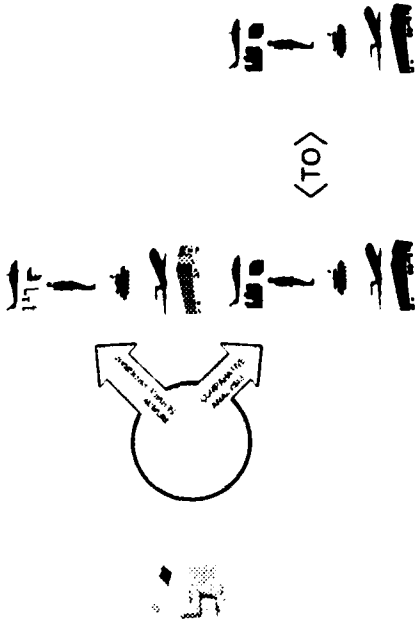
CONTRACTING AGENCY: DCA  
 USER COMMAND/AGENCY: OSD, DIR OF PROGRAM ANALYSIS & EVALUATION & ASD FOR INTERNAT'L SECURITY POLICY  
 POINT OF CONTACT: MS. WILSON, DCA/JDSSC/C312  
 KEY LOCATIONS: JDSSC, WASHINGTON AREA  
 CONTRACT PERIOD(S):  
 JUN 85 - MAY 92  
 DOLLAR VALUE  
 \$1.9M - \$2.4M

## KEY MILESTONES

ANALYSES OF ALTERNATIVE GROUND WAVE EMERGENCY NETWORK ARCHITECTURE: JUN 88  
 ANALYSIS OF TACAMO PERFORMANCE: JUN 88  
 DEVELOPMENT OF A LIBRARY OF CALLABLE SUBROUTINES WHICH COMPUTE THERMAL AND NUCLEAR AFFECTS: JUN 88  
 RFP RELEASE: JUN 88

#067-CV

## ANALYTICAL SUPPORT TO OSD (DEFENSE ANALYSIS)



## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS

WHO: OSD (PA&E), OJCS, CINC'S, DoD AGENCIES

WHAT MSN: DEFENSE ANALYSIS

HOW: COMPARATIVE ANALYSES OF U.S. AND ALLIED FORCES AGAINST THREAT FORCES BASED ON CURRENTLY PROJECTED PROGRAMS AND THREAT ESTIMATES

WHY: TO IMPROVE OSD OVERSIGHT OF MILITARY PROGRAMS

PRODUCTS: SOFTWARE DEVELOPMENT, DATA DEVELOPMENT, AND ANALYTICAL REPORTS

DELIVERABLES: TECHNICAL REPORTS, SYSTEM DOCUMENTATION, DATA BASE UPDATES, NEW OR MODIFIED SOFTWARE

## CONTRACT DATA

CONTRACTING AGENCY: DCA

USER COMMAND/AGENCY: OSD, OJCS, UNIFIED & SPECIFIED COMMAND, DoD AGENCIES, SENIOR SERVICE COLLEGES

POINT OF CONTACT: MR. MARTIN, DCA/JDSSC/C302

KEY LOCATIONS: JDSSC, WASHINGTON AREA

CONTRACT PERIOD(S): DOLLAR VALUE  
FEB 91 - FEB 94 \$2.6M - \$3.2M

## KEY MILESTONES

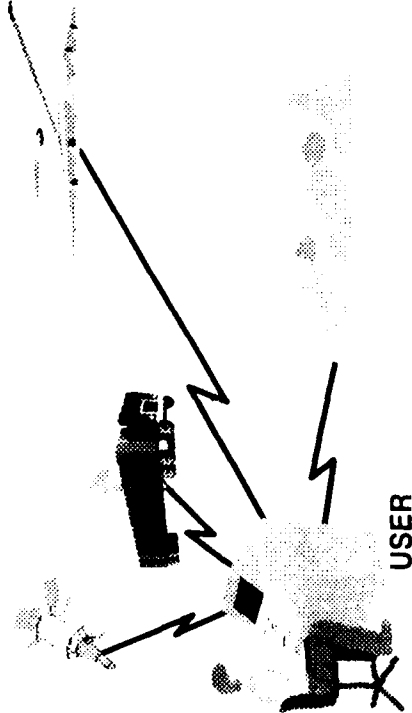
FIVE YEAR DEFENSE PLAN/DEFENSE FORCE PLANNING DATA BASE COMPARISON WITH POM INPUT: JUN 88

DEFENSE PROGRAM TRACKING SYSTEM POM UPDATE: JUN 88

RFP RELEASE: OCT 90

#067-CV

## NUCLEAR ADP SUPPORT TO OJCS



## FUNCTIONAL DESCRIPTION OF SYSTEM

SUPPORTS OJCS, CINC'S, DoD AGENCIES

WHO: - NUCLEAR FORCE MONITORING AND MANAGEMENT  
- CRUISE MISSILE MISSION PLANNING SUPPORT

WHAT MSN: INTEGRATED DATA BASE SYSTEM

HOW: COMMON SYSTEM FOR COMMAND CENTERS

WHY: OPERATIONAL SOFTWARE

PRODUCTS: INTEGRATED SOFTWARE MODULES, SYSTEM DOCUMENTATION

DELIVERABLES:

## CONTRACT DATA

CONTRACTING AGENCY: DCA

USER COMMAND/AGENCY: OJCS, CINC'S, DoD AGENCIES

POINT OF CONTACT: MRS. DARBY, DCA/JDSSC/C330

KEY LOCATIONS: JDSSC--WASHINGTON ARFA  
JDSSC--SITE R

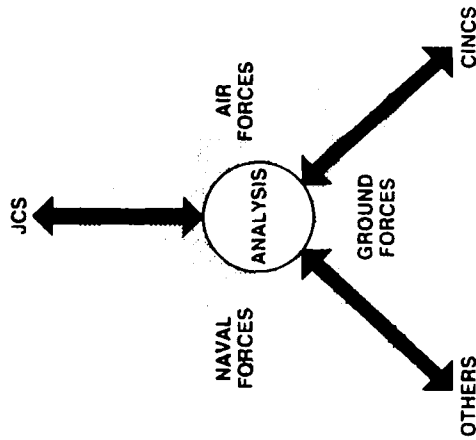
CONTRACT PERIOD(S): DOLLAR VALUE  
FEB 91 - FEB 94 \$13M - \$15M

## KEY MILESTONES

RFP RELEASE: OCT 90

#067-CV

## MULTI-USER PROJECT



## FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS:** OSD, OJCS, CINC'S, SERVICES  
**WHO:** ADP AND TECHNICAL SUPPORT FOR MULTIPLE USERS  
 (COMMON-USER SYSTEMS)  
**WHAT MSN:** PROVIDE ANALYSIS, MODELING, DESIGN, DEVELOPMENT, COMPUTER PROGRAMMING, DATA FILE DEVELOPMENT, AD HOC OPERATIONAL SUPPORT  
**HOW:** PROVIDE OSD AND OJCS WITH INFORMATION CONCERNING MILITARY POSTURE, READINESS, AND ACTIVITIES ASSOCIATED WITH THEIR ASSIGNED MONITORING, ANALYSIS, AND PLANNING FUNCTIONS  
**WHY:** SOFTWARE DEVELOPMENT AND MAINTENANCE, SYSTEM DOCUMENTATION, TRAINING, SYSTEM INSTALLATION, SYSTEM SPECIFICATIONS AND OTHER DOCUMENTATION, TEST PLANS, SYSTEM MAINTENANCE  
**PRODUCTS:** MODELS, DATA BASES, SYSTEMS ANALYSES, SYSTEM DOCUMENTATION, TRAINING, SYSTEM INSTALLATION, SYSTEM SPECIFICATIONS AND OTHER DOCUMENTATION, TEST PLANS, SYSTEMS MAINTENANCE  
**DELIVERABLES:**

## CONTRACT DATA

**CONTRACTING AGENCY:** DCA  
**USER COMMAND/AGENCY:** OSD, OJCS, CINC'S, SERVICES  
**POINT OF CONTACT:** MRS. DAUL, DCA/JDSSC/C302A  
**KEY LOCATIONS:** JDSSC--WASHINGTON AREA  
**CONTRACT PERIOD(S):** DOLLAR VALUE:  
 FEB 91 - JAN 94 \$16M - \$18M

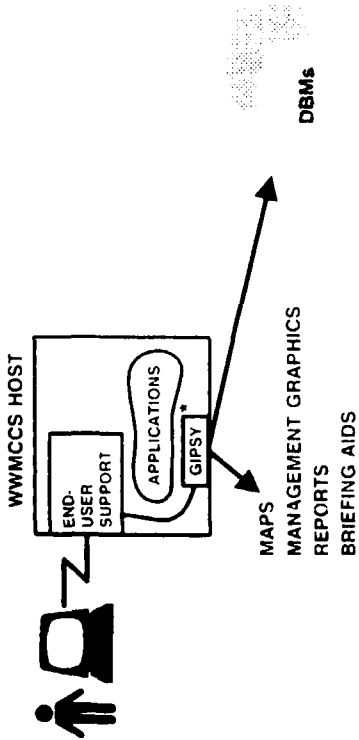
## KEY MILESTONES

RFP RELEASE OCT 90

#067-CV



# WWMCCS COMPUTER GRAPHICS SUPPORT



\*GIPSY-GRAPHICS INFORMATION PRESENTATION SYSTEM

# FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS** OJCS, CINCS, SERVICES  
**WHO:** MANAGEMENT SUPPORT AND C3 OPERATIONS  
**WHAT MSN:** GENERALIZED INFORMATION ACCESS, PRESENTATION AND SECURE COMMUNICATIONS INTERFACE  
**HOW:** IMPROVE JOINT STAFF INFORMATION MANAGEMENT AND OPERATIONS  
**WHY:** GENERALIZED ADP SUPPORT UTILITIES  
**PRODUCTS:** END-USER SUPPORT TOOLS (E.G., GRAPHICS GENERATION AND DECISION SUPPORT AIDS), DBMS USER QUERY LANGUAGE, OPERATIONAL INTERFACE TO COMMUNICATIONS NETWORKS, SOFTWARE, COMMUNICATIONS MONITORS, MAINTENANCE

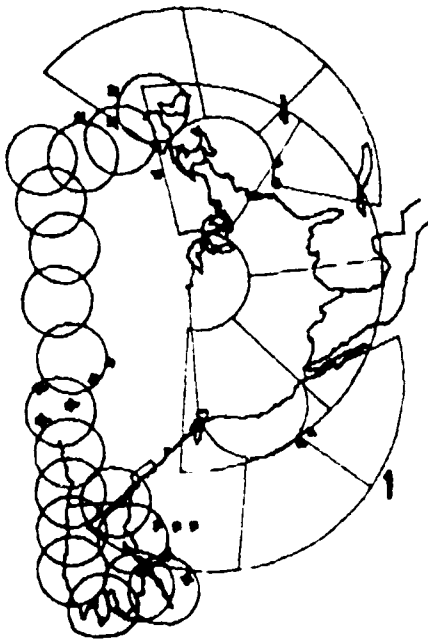
# CONTRACT DATA

**CONTRACTING AGENCY:** DCA  
**USER COMMAND/AGENCY:** OJCS, CINCS, SERVICES  
**POINT OF CONTACT:** MAJ STEEN, DCA/JDSSC/C344  
**KEY LOCATIONS:** 35 WWMCCS SITES WORLDWIDE  
**CONTRACT PERIOD(S):** DOLLAR VALUE  
 AUG 90 - JUL 93 \$5M - \$6M

# KEY MILESTONES

RFP RELEASE JAN 90

## AIR DEFENSE INITIATIVE



## FUNCTIONAL DESCRIPTION

### SUPPORTS

WHO: OSD

WHAT MSN: AIR DEFENSE INITIATIVE (ADI)  
HOW: DEVELOPMENT/UPDATING OF  
SIMULATION/GRAPHICS/DATA BASE SOFTWARE  
AND ANALYSIS OF WARGAMING RESULTS

WHY: TO PLAN ADI ARCHITECTURE

PRODUCTS: AIR DEFENSE ANALYTICAL REPORTS, GRAPHICS  
SOFTWARE, UPDATED AIR DEFENSE MODELS  
(MAINFRAME AND MICRO COMPUTER)

DELIVERABLES: SOFTWARE, DOCUMENTATION & REPORTS

## CONTRACT DATA

CONTRACTING AGENCY: DCA

USER COMMAND/AGENCY: OSD, UNDER SECRETARY OF  
DEFENSE (ACQUISITION)

POINT OF CONTACT: MAJ MERRYMAN, DCA/JDSSC/C312

KEY LOCATIONS: JDSSC--WASHINGTON AREA

CONTRACT PERIOD(S) DOLLAR VALUE

FEB 91 - JAN 94

\$2M - \$3M

## KEY MILESTONES

### ADI MODEL ENHANCEMENTS

SPACE SENSOR SUBROUTINE: MAY 88

SPACE ENGAGEMENT SUBROUTINE: JUN 88

SURFACE-TO-AIR SUBROUTINE: JUL 88

ANTISATELLITE MODEL: JUN 88

RED SATELLITE DATE BASE: MAY 88

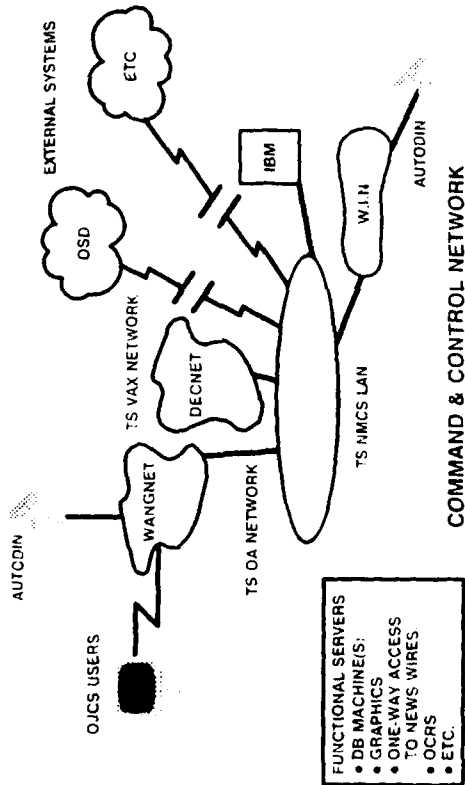
RED/SATELLITE DATA BASE SUMMARY: OCT 88

RFP RELEASE: OCT 90

#067-CV



## HYPERCHANNEL AND INTERCONNECTIVITY



## FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS**  
**WHO:** OJCS  
**WHAT MSN:** C<sup>2</sup>, ADMINISTRATIVE, AND CLERICAL  
**HOW:** INTEGRATION OF FUNCTIONS AND INTERNETTING OF NETWORKS  
**WHY:** IMPROVE JOINT STAFF INFORMATION MANAGEMENT  
**PRODUCTS:** HARDWARE, SYSTEM SOFTWARE, APPLICATIONS, AND SUPPORTING CAPABILITIES  
**DELIVERABLES:** SYSTEM DESIGN  
 ENHANCED STORAGE (E.G. DATA BASE MACHINES))  
 GATEWAYS/BRIDGES PROTOCOL CONVERTERS  
 SOFTWARE  
 TECHNOLOGY ASSESSMENTS

## CONTRACT DATA

**CONTRACTING AGENCY:** DCA  
**USER COMMAND/AGENCY:** OJCS  
**POINT OF CONTACT:** MR. BRAGG, DCA/JDSSC/C340  
**KEY LOCATIONS:** JDSSC-WASHINGTON AREA  
 JDSSC-SITE R

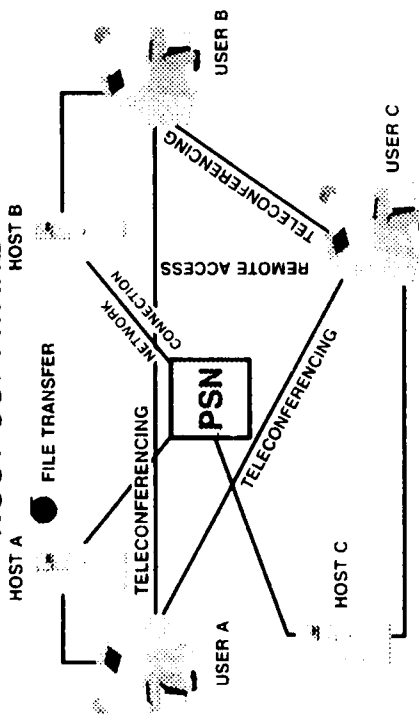
**CONTRACT PERIOD(S):** **DOLLAR VALUE:**  
 HYPERCHANNEL SEP 88 - SEP 91 \$3.6M - \$4.2M  
 INTERCONNECTIVITY MAY 89 - APR 92 TBD

## KEY MILESTONES

"HYPERCHANNEL" RFP RELEASE APR 88  
 "INTERCONNECTIVITY" RFP RELEASE SEP 88

#067-CV

**WWMCCS INTERCOMPUTER NETWORK (WIN)  
HOST SOFTWARE**



**FUNCTIONAL DESCRIPTION OF SYSTEM**

**SUPPORTS**

**WHO:** OJCS, SERVICES, CINC'S, DoD AGENCIES  
**WHAT MSN:** WORLD WIDE MILITARY COMMAND AND CONTROL  
**HOW:** MAINTENANCE AND ENHANCEMENT OF WIN HOST SOFTWARE  
**WHY:** MAINTAIN MILITARY C2 COMMUNICATIONS  
**PRODUCTS:** SOFTWARE MAINTENANCE AND ENHANCEMENT  
 SITE ASSISTANCE FOR INSTALLATION, TESTING  
 AND TRAINING  
 CONSULTATION SUPPORT FOR NEW PROTOCOL SUITES  
 COMMUNICATIONS TEST PLANNING SUPPORT  
 IBM OPERATOR SUPPORT

**DELIVERABLES:** UPDATED SOFTWARE/SYSTEM AND USER DOCUMENTATION  
 TECHNICAL REPORTS  
 TEST PACKAGES

**CONTRACT DATA**

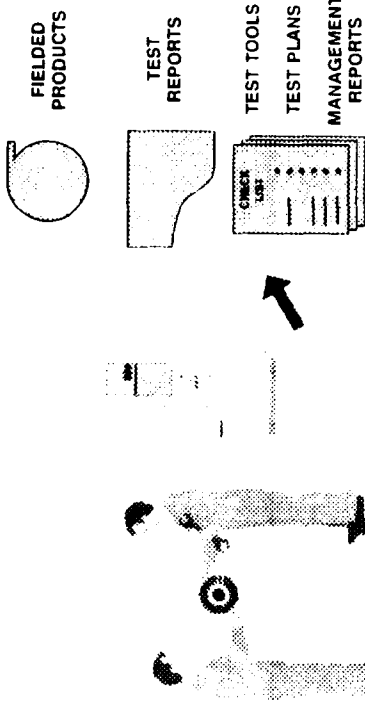
**CONTRACTING AGENCY:** DCA  
**USER COMMAND/AGENCY:** OJCS, SERVICES, CINC'S,  
 DoD AGENCIES  
**POINT OF CONTACT:** LT SOUTH, DCA/JDSSC/C411  
**KEY LOCATIONS:** JDSSC-WASHINGTON AREA  
**CONTRACT PERIOD(S):**  
 OCT 88 - SEP 91  
**DOLLAR VALUE**  
 \$4.7M - \$11.3M

**KEY MILESTONES**

**RFP RELEASE JUN 88**

#067-CV

**WWMCCS INTERCOMPUTER NETWORK/WWMCCS  
INFORMATION SYSTEM TEST  
AND EVALUATION SUPPORT**



**FUNCTIONAL DESCRIPTION OF SYSTEM**

**SUPPORTS:** OJCS, SERVICES, CINC'S, NATO  
**WHO:** TEST/EVALUATION END-USER NETWORKING PRODUCTS  
**WHAT MSN:** EVOLVING NETWORK TESTS  
**HOW:** QUALITY ASSURANCE OF USER INTERFACE/SUBNET  
**WHY:** NETWORK TESTING AND END-USER IV&V  
**PRODUCTS:** OPERATIONAL SIMULATIONS  
**DELIVERABLES:** NETWORK CALIBRATION  
 TEST CRITERIA/FUNCTIONALITY  
 IV&V PLANS AND REPORTS  
 TEST PROGRAM MANAGEMENT PLANS

**CONTRACT DATA**

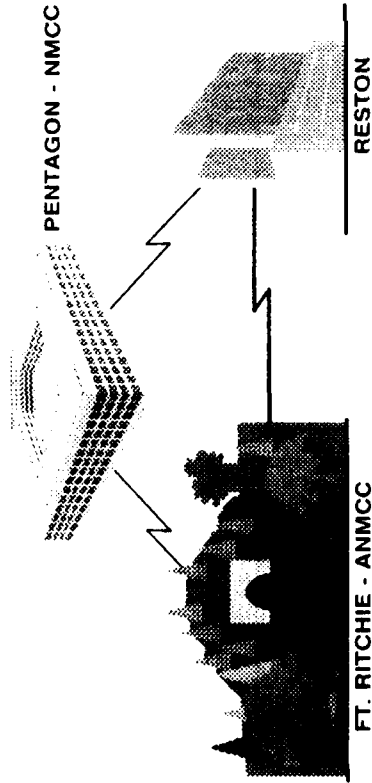
**CONTRACTING AGENCY:** DCA  
**USER COMMAND/AGENCY:** OJCS, SERVICES, CINC'S, NATO  
**POINT OF CONTACT:** MR. DIEHL, DCA/JDSSC/C441  
**KEY LOCATIONS:** JDSSC, WASHINGTON AREA  
**CONTRACT PERIOD(S):** DOLLAR VALUE  
 MAR 90 - MAR 93 \$3.0M - \$4.5M

**KEY MILESTONES**

**RFP RELEASE JUN 89**

#067-CV

## GENERAL SYSTEM SOFTWARE SUPPORT



## FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS** OJCS, OSD  
**WHO:** ADP OPERATING SYSTEMS  
**WHAT MSN:** MAINTAIN IN A READY STATE ALL JDSSC OPERATIONAL COMPUTER OPERATING SYSTEMS  
**HOW:** ESSENTIAL TO USE OF COMPUTERS  
**WHY:** COMPUTER OPERATING SYSTEMS  
**PRODUCTS:** TECHNICAL REPORTS  
**DELIVERABLES:**

## CONTRACT DATA

**CONTRACTING AGENCY:** DCA  
**USER COMMAND/AGENCY:** OJCS, OSD  
**POINT OF CONTACT:** MR. J. FOGARTY, DCA/JDSSC /C302A  
**KEY LOCATIONS:** JDSSC-WASHINGTON AREA  
 JDSSC-SITE R  
**CONTRACT PERIOD(S):** DOLLAR VALUE  
 FEB 90 - FEB 93 \$6.1M - \$7.9M

## KEY MILESTONES

RFP RELEASE JUN 89  
 BEGIN SUPPORT FOR 4 COMPUTERS BY: FY89  
 BEGIN SUPPORT FOR 4 COMPUTERS BY: FY90  
 BEGIN SUPPORT FOR 6 COMPUTERS BY: FY91  
 BEGIN SUPPORT FOR 4 COMPUTERS BY: FY92  
 BEGIN SUPPORT FOR 3 COMPUTERS BY: FY93  
 #067-CV

## TEMPEST TESTING

## FUNCTIONAL DESCRIPTION OF SYSTEM

**SUPPORTS**

**WHO:**

**HOW:**

**OBJECTIVE:**

**WHY:**

**DELIVERABLES:**

OJCS

CONDUCTING TEMPEST ONSITE TESTING OF COMPUTER SYSTEMS, EQUIPMENT AND FACILITIES

TO DETERMINE IF THE TEMPEST PROFILES OF THE ITEMS TESTED ARE COMPLIANT WITH APPLICABLE DIRECTIVES ON THE CONTROL OF COMPROMISING INFORMATION

REQUIRED BY POLICY DIRECTIVES, JCS PUBLICATION 22 ON WWMCCS COMMUNICATION SECURITY

TECHNICAL TEST REPORTS

## CONTRACT DATA

## KEY MILESTONES

**CONTRACTING AGENCY:** DCA

**OTHER AGENCIES:** OJCS

**POINT OF CONTACT:** MR. PHIL JENSEN,  
DCA/JDSSC/C752

**KEY LOCATIONS:** JDSSC-WASHINGTON AREA  
JDSSC-SITE R

**CONTRACT PERIOD(S):** JUL 90 - JUL 93  
DOLLAR VALUE  
\$1.8M - \$2.6M

2-STORY HEMP FACILITY MARCH 88

NMCC PERIMETER TEST APRIL 88

RFP RELEASE OCT 89

#067-CV

# SUMMARY COMPETITIVE CONTRACTS

| TITLE                                                                                 | APPROXIMATE<br>DOLLAR<br>AMOUNT | ANTICIPATED<br>RFP RELEASE<br>DATE |
|---------------------------------------------------------------------------------------|---------------------------------|------------------------------------|
| ANALYTICAL SUPPORT TO OSD (STRATEGIC AND THEATER NUCLEAR ANALYSIS)                    | 1.9-2.4M                        | JUN 88                             |
| ANALYTICAL SUPPORT TO OSD (DEFENSE ANALYSIS)                                          | 2.6-3.2M                        | OCT 90                             |
| NUCLEAR ADP SUPPORT TO OJCS                                                           | 13.0-15.0M                      | OCT 90                             |
| MULTI-USER PROJECT                                                                    | 16.0-18.0M                      | OCT 90                             |
| GENERAL ADP SOFTWARE SUPPORT                                                          | 26.0-28.0M                      | JUL 89                             |
| WWMCCS COMPUTER GRAPHICS SUPPORT                                                      | 5.0-6.0M                        | JAN 90                             |
| AIR DEFENSE INITIATIVE                                                                | 2.0-3.0M                        | OCT 90                             |
| OJCS INFORMATION SYSTEM REQUIREMENT, MANAGEMENT AND SUPPORT                           | 9.1-11.2M                       | JUL 89                             |
| HYPERCHANNEL AND<br>INTERCONNECTIVITY                                                 | 3.6-4.2M<br>TBD                 | APR 88<br>SEP 88                   |
| WWMCCS INTERCOMPUTER NETWORK (WIN) HOST SOFTWARE                                      | 4.7-11.3M                       | JUN 88                             |
| WWMCCS INTERCOMPUTER NETWORK/WWMCCS INFORMATION SYSTEM TEST AND<br>EVALUATION SUPPORT | 3.0-4.5M                        | JUN 89                             |
| GENERAL SYSTEM SOFTWARE SUPPORT                                                       | 6.1-7.9M                        | JUN 89                             |
| TEMPEST TESTING                                                                       | 1.8-2.6M                        | OCT 89                             |

#067-CV

## SMALL AND DISADVANTAGED BUSINESS

| TITLE                                                                                            | APPROXIMATE<br>DOLLAR<br>AMOUNT | ANTICIPATED<br>RFP RELEASE<br>DATE |
|--------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------|
| WORLD WIDE MILITARY COMMAND AND<br>CONTROL SYSTEM SOFTWARE AND EVALUATION                        | 1.4 - 1.6 M                     | JAN 90                             |
| COMPUTER PERFORMANCE EVALUATION                                                                  | 0.3 - 0.5 M                     | FEB 90                             |
| GRAPHICS SUPPORT                                                                                 | 3.6 - 4.4 M                     | JAN 90                             |
| JOINT STAFF SUPPORT INFORMATION SYSTEM                                                           | 3.3 - 3.9 M                     | JUN 88                             |
| WORLD WIDE MILITARY COMMAND AND<br>CONTROL SYSTEM INFORMATION<br>SYSTEM CONFIGURATION MANAGEMENT | 1.7 - 2.3 M                     | MAR 89                             |
| JOINT MISSION APPLICATIONS SOFTWARE<br>INTEGRATED SYSTEM TEST                                    | 1.0 - 1.4 M                     | JAN 91                             |
| STRATEGIC FORCES ANALYSIS                                                                        | 0.3 - 0.5 M                     | JUN 91                             |
| NUCLEAR WEAPONS TARGETING POLICY                                                                 | 0.3 - 0.5 M                     | JUN 90                             |

#067-CV

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                            | <u>INCUMBENT</u>                               | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|-----------------------------------------------|------------------------------------------------|--------------|------------------------------|
| *DCA100-86-C-0056      | <u>ANALYTICAL SUPPORT TO OSD</u>              |                                                |              |                              |
|                        | <u>STRATEGIC AND THEATRE NUCLEAR ANALYSIS</u> |                                                |              |                              |
|                        | o STRATEGIC CONNECTIVITY                      | SCIENCE APPLICATIONS INTERNATIONAL CORPORATION | \$1.8M       | JUN 86 - MAY 89              |
|                        | o STRATEGIC DEFENSE                           |                                                |              |                              |
|                        | o DEFENSE & SPACE NEGOTIATIONS                |                                                |              |                              |
|                        | o ARMS CONTROL ISSUES                         |                                                |              |                              |
|                        | o BLUE DATA BASE SUPPORT                      |                                                |              |                              |
|                        | o RED TARGET DATA BASE SUPPORT                |                                                |              |                              |
|                        | o STRATEGIC C3 DATA BASE SUPPORT              |                                                |              |                              |

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUN 88

CONTRACT PERIOD(S): JUN 89 - MAY 92

DOLLAR VALUE: \$1.9M - 2.4M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                               | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|--------------------------------------------------|------------------|--------------|------------------------------|
| *DCA100-88-C-0032      | <u>ANALYTICAL SUPPORT TO OSD</u>                 |                  |              |                              |
|                        | <u>DEFENSE ANALYSIS</u>                          |                  |              |                              |
|                        | o SUPPORT TO PROGRAM, ANALYSIS AND EVALUATION    | UNISYS           | \$3M         | FEB 88 - FEB 9               |
|                        | - GLOBAL FORCE TRENDS DATA BASE                  |                  |              |                              |
|                        | - DEFENSE ANALYSIS MANAGEMENT INFORMATION SYSTEM |                  |              |                              |
|                        | - DEFENSE PLANNING QUESTIONNAIRE FOR NATO        |                  |              |                              |
|                        | - DEFENSE PROGRAM TRACKING SYSTEM                |                  |              |                              |

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: OCT 90

CONTRACT PERIOD(S): FEB 91 - FEB 94

DO LAR VALUE: \$2.6M - 3.2M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| PROJECT NUMBER    | DESCRIPTION                                                           | INCUMBENT | VALUE | PERIOD OF PERFORMANCE |
|-------------------|-----------------------------------------------------------------------|-----------|-------|-----------------------|
| *DCA100-88-C-0034 | <u>NUCLEAR ADP SUPPORT TO OJCS</u>                                    | UNISYS    | \$14M | FEB 88 - FEB 91       |
|                   | o NUCLEAR PLANNING & EXECUTION SYSTEM                                 |           |       |                       |
|                   | TECHNICAL & SOFTWARE SUPPORT                                          |           |       |                       |
|                   | - FIXED GROUND                                                        |           |       |                       |
|                   | - TRANSPORTABLE AND MOBILE NUCLEAR PLANNING & EXECUTION SYSTEM (NPES) |           |       |                       |
|                   | - COMMUNICATIONS SUBSYSTEM                                            |           |       |                       |
|                   | o THEATER MISSION PLANNING SYSTEM SUPPORT                             |           |       |                       |
|                   | o NUCLEAR PLANNING SYSTEM SUPPORT                                     |           |       |                       |
|                   | o CONVENTIONAL SUPPORT SYSTEM                                         |           |       |                       |

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: OCT 90

CONTRACT PERIOD(S): FEB 91 - FEB 94

DOLLAR VALUE: \$13M - 15M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                          | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|---------------------------------------------|------------------|--------------|------------------------------|
| DCA 100-88-C-0032      | <u>MULTI-USER PROJECT</u>                   | UNISYS           | \$17M        | FEB 88 - JAN 9               |
|                        | o DEFENSE SYSTEMS ANALYSIS                  |                  |              |                              |
|                        | o WORLDWIDE ENVIRONMENTAL SUPPORT SYSTEM    |                  |              |                              |
|                        | o STATUS OF RESOURCES AND TRAINING SYSTEM   |                  |              |                              |
|                        | o FOREIGN MEDIA ANALYSIS SYSTEM             |                  |              |                              |
|                        | o NMCS INFORMATION DISPLAY SYSTEM           |                  |              |                              |
|                        | o JOINT MANPOWER DISTRIBUTION SYSTEM        |                  |              |                              |
|                        | o GENERAL PURPOSE SYSTEMS QUALITY ASSURANCE |                  |              |                              |
|                        | o NMCS AUTOMATED CONTROL EXECUTIVE          |                  |              |                              |

TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: OCT 90

CONTRACT PERIOD(S): FEB 91 - JAN 94

DOLLAR VALUE: \$16M - 18M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|------------------------------|
| *DCA100-87-C-0046      | <ul style="list-style-type: none"> <li>GENERAL ADP SOFTWARE SUPPORT</li> <li>o MODELING &amp; SIMULATION SUPPORT                             <ul style="list-style-type: none"> <li>- STRATEGIC WARGAMES ANALYSES</li> <li>- TACTICAL WARFARE MODEL</li> <li>- NUCLEAR WEAPONS ALLOCATION MODELS</li> <li>- STRATEGIC DEFENSE INITIATIVES</li> </ul> </li> <li>LOGISTICS &amp; OPERATIONS SUPPORT                             <ul style="list-style-type: none"> <li>- JOINT OPERATIONS PLANNING SYSTEM</li> <li>- LOGISTICS SUPPORT - LOGISTICS READINESS CENTER</li> <li>- LOGISTICS SUPPORT - AMMUNITION</li> <li>- LOGISTICS SUPPORT - PETROLEUM</li> <li>- LOGISTICS SUPPORT - CIVIL ENGINEERING</li> </ul> </li> <li>o MOBILITY STUDIES &amp; ANALYTICAL STUDIES                             <ul style="list-style-type: none"> <li>- SPECIAL MOBILITY STUDIES</li> <li>- JOINT OPERATIONS PLANNING &amp; EXECUTION SYSTEM</li> <li>- MODERN AIDS TO PLANNING</li> </ul> </li> <li>o MULTI-USER SUPPORT                             <ul style="list-style-type: none"> <li>- SINGLE INTEGRATED DAMAGE ANALYSIS CAPABILITY</li> <li>- J-5 FORCE STRUCTURE INFORMATION DISPLAY SYSTEM</li> <li>- INTERNATIONAL NEGOTIATIONS SYSTEM</li> <li>- JOINT RECONNAISSANCE INFORMATION SYSTEM</li> </ul> </li> </ul> | CSC              | \$27.4M      | MAR 87 - MAR 9               |

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUL 89  
 CONTRACT PERIOD: MAR 90 - MAR 93  
 DOLLAR VALUE: \$26M - \$28M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                                                                                                                                                                   | <u>INCUMBENT</u>                    | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------|------------------------------|
| DCA100-87-C-0064       | WWMCCS COMPUTER GRAPHICS SUPPORT<br>o MAINTENANCE & ENHANCEMENT OF:<br>- GRAPHIC INFORMATION PRESENTATION SYSTEM<br>- TERRA PLOT<br>- GENERALIZED DATA REPORTS SYSTEM<br>- GIPSYMATE | Computer Based Systems Incorporated | \$5.1M       | AUG 87 - JUL 90              |

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JAN 90

CONTRACT PERIOD(S): AUG 90 - JUL 93

DOLLAR VALUE: \$5M - 6M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

| <u>DESCRIPTION</u>                                                                                                                                 | <u>VALUE RANGE</u> | <u>ANTICIPATED ANNOUNCEMENT DATE</u> | <u>PERIOD OF PERFORMANCE</u> |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------|------------------------------|
| AIR DEFENSE INITIATIVE                                                                                                                             | \$2M - 3M          | OCT 90                               | FEB 91 - JAN 94              |
| <ul style="list-style-type: none"> <li>o DEVELOP AND UPDATE SIMULATION/GRAPHICS DATA BASE SOFTWARE</li> <li>o ANALYZE WARGAMING RESULTS</li> </ul> |                    |                                      |                              |

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

| DESCRIPTION                                                                                       | VALUE RANGE    | ANTICIPATED ANNOUNCEMENT DATE | PERIOD OF PERFORMANCE |
|---------------------------------------------------------------------------------------------------|----------------|-------------------------------|-----------------------|
| OJCS INFORMATION SYSTEM REQUIREMENT, MANAGEMENT AND SUPPORT                                       | \$9.1M - 11.2M | JUL 89                        | JAN 90 - JAN 93       |
| <ul style="list-style-type: none"> <li>o MANAGEMENT PLANNING AND MODERNIZATION SUPPORT</li> </ul> |                |                               |                       |
| - DATA BASE MANAGEMENT                                                                            |                |                               |                       |
| - INTERFACE CONTROL DOCUMENTS                                                                     |                |                               |                       |
| - TRANSITION PLANNING TOOLS                                                                       |                |                               |                       |
| - MIS COMPONENTS                                                                                  |                |                               |                       |
| - ACTIVE CONFIGURATION MANAGEMENT SYSTEM                                                          |                |                               |                       |

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                    | VALUE RANGE   | ANTICIPATED ANNOUNCEMENT DATE | PERIOD OF PERFORMANCE |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------|-----------------------|
| HYPERCHANNEL                                                                                                                                                                                                                                                                                                                                                                                                   | \$3.6M - 4.2M | APR 88                        | SEP 88 - SEP 91       |
| <ul style="list-style-type: none"> <li>o MAINTAIN INSTALLED HARDWARE/SOFTWARE BASE</li> <li>o ENHANCE CONNECTIVITY WITH IBM HOST</li> <li>o IMPLEMENT DOD STANDARD PROTOCOLS</li> <li>o ENHANCE END-USER INTERACTIVE CAPABILITY</li> </ul>                                                                                                                                                                     |               |                               |                       |
| INTERCONNECTIVITY                                                                                                                                                                                                                                                                                                                                                                                              | TBD           | SEP 88                        | MAY 89 - APR 92       |
| <ul style="list-style-type: none"> <li>o END-TO-END SECURITY RISK ANALYSIS</li> <li>o DESIGN/IMPLEMENT INTEGRATED OJCS INFORMATION SYSTEM (OIS)</li> <li>o DEFINE AND IMPLEMENT OIS INFORMATION ARCHITECTURE</li> <li>o PROVIDE JOINT STAFF CORPORATE DATA BASE</li> <li>o DEVELOP PROTOCOL TRANSLATIONS</li> <li>o CENTRALIZE AUTHENTICATION AND CONTROL</li> <li>o END-END PERFORMANCE MONITORING</li> </ul> |               |                               |                       |

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u>                                  | <u>DESCRIPTION</u>                                                                                                                                                                                                          | <u>INCUMBENT</u>              | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------|------------------------------|
| <u>WMMCCS INTERCOMPUTER NETWORK (WIN) HOST SOFTWARE</u> |                                                                                                                                                                                                                             |                               |              |                              |
| *DCA 100-85-C-0002                                      | <ul style="list-style-type: none"> <li>o WMMCCS INTERCOMPUTER NETWORK SOFTWARE MAINTENANCE &amp; ENHANCEMENT SUPPORT</li> <li>o ON-SITE ADP TECHNICAL SUPPORT AT WIN SITES TO ASSIST IN INSTALLATION AND TESTING</li> </ul> | COMPUTER SCIENCES CORPORATION | \$6.8M       | NOV 84 - SEP 88              |

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUN 88

CONTRACT PERIOD(S): OCT 88 - SEP 91

DOLLAR VALUE: \$4.7M - 11.3M

MAJOR JDSSC CONTRACTUAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                                                                                                                                                                                                                                                               | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|------------------------------|
| DCA 100-87-C-0031      | 0 WIN END-USER OPERATIONAL TEST AND EVALUATION<br>0 DEFINITION AND DEVELOPMENT OF WIN, LAN, AND WIS/DDN TEST AND EVALUATION TOOLS<br>0 REVIEW, ANALYSIS, AND EVALUATION OF WIN CONCEPTS AND CONFIGURATIONS<br>0 WIN USER FUNCTIONALITY DEFINITION REPORTS<br>0 WIN USER TRAINING | UNISYS           | \$5.1M       | MAR 87-MAR 90                |

\*WWMCCS INTERCOMPUTER NETWORK/WWMCCS INFORMATION SYSTEM TEST AND EVALUATION SUPPORT

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUN 89  
 CONTRACT PERIOD(S): MAR 90-MAR 93  
 DOLLAR VALUE: \$3M - 4.5M

MAJOR JDSSC CONTRACTUAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u>                 | <u>DESCRIPTION</u>                                                                        | <u>INCUMBENT</u>              | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|----------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------|--------------|------------------------------|
| <u>GENERAL SYSTEM SOFTWARE SUPPORT</u> |                                                                                           |                               |              |                              |
| *JCA 100-85-C-0040                     | 0 SYSTEM SOFTWARE MODIFICATION, TESTING, IMPLEMENTATION, DOCUMENTATION                    | COMPUTER SCIENCES CORPORATION | \$6M         | FEB 87-FEB 90                |
| 0                                      | SYSTEM SOFTWARE SUPPORT FOR IBM, DEC, HONEYWELL, DATA GENERAL, AND WANG OPERATING SYSTEMS |                               |              |                              |
| 0                                      | ADP SECURITY RISK ANALYSIS                                                                |                               |              |                              |
| 0                                      | TEST, EVALUATION, INSTALLATION IMPLEMENTATION, AND MAINTENANCE OF ADP SECURITY SOFTWARE   |                               |              |                              |

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUN 89  
 CONTRACT PERIOD(S): FEB 90-FEB 93  
 DOLLAR VALUE: \$6.1M - 7.9M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                | <u>INCUMBENT</u>              | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|-----------------------------------|-------------------------------|--------------|------------------------------|
| <u>TEMPEST TESTING</u> |                                   |                               |              |                              |
| *DCA 100-87-C-TBD      | 0 CONDUCTION-SITE TEMPEST TESTING | HONEYWELL INFORMATION SYSTEMS | \$3M         | APR 87 - APR 90              |

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: OCT 89  
 CONTRACT PERIOD(S): JUL 90 - JUL 93  
 DOLLAR VALUE: \$1.8M - 2.6M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                                                                                                                                  | <u>INCUMBENT</u>                  | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|------------------------------|
|                        | <u>COMPUTER PERFORMANCE EVALUATION</u>                                                                                                              |                                   |              |                              |
| *DCA 100-87-C-TBD      | 0 MAINTENANCE OF SOFTWARE<br>PERFORMANCE MONITOR (SPM)<br>LOCAL AREA NETWORK<br>PERFORMANCE REPORTING SYSTEM,<br>COMMUNICATIONS PROCESSOR SIMULATOR | ADVANCED<br>TECHNOLOGY<br>SYSTEMS | \$3M         | FEB 87 - FEB 90              |
|                        | 0 DEVELOPMENT AND ENHANCEMENT OF<br>COMPUTER PERFORMANCE EVALUATION<br>TOOLS                                                                        |                                   |              |                              |

\*TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUL 89  
 CONTRACT PERIOD(S): FEB 90 - FEB 93  
 DOLLAR VALUE: \$2M - 4M

MAJOR JDSSC CONTRACTUAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u>          | <u>DESCRIPTION</u>                                                                                    | <u>INCUMBENT</u>                                   | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|---------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------|------------------------------|
| <u>ADP HARDWARE MAINTENANCE</u> |                                                                                                       |                                                    |              |                              |
| VARIOUS                         | ADP HARDWARE MAINTENANCE FOR EQUIPMENT SUCH AS WANG, IBM, VAX, DATA GENERAL (MAJOR MAINTENANCE AREAS) | o AUTOMATED DATA MANAGEMENT, INC. (8 [A] CONTRACT) | \$7M         | various                      |
|                                 |                                                                                                       | o DATA GENERAL                                     |              |                              |
|                                 |                                                                                                       | o TELOS (SMALL BUSINESS)                           |              |                              |
|                                 |                                                                                                       | o VAX                                              |              |                              |
|                                 |                                                                                                       | o NATIONAL ADVANCED SYSTEMS                        |              |                              |
|                                 |                                                                                                       | o EATON CORPORATION                                |              |                              |

\*MAJORITY AWARDED BY OTHER THAN  
DCA CONTRACTING OFFICE

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                                                                | <u>INCUMBENT</u>            | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|-----------------------------------------------------------------------------------|-----------------------------|--------------|------------------------------|
|                        | <u>TEST, EVALUATION AND DISTRIBUTION SUPPORT</u>                                  |                             |              |                              |
| *DCA 100-87-C-0018     | 0 TEST, EVALUATION AND DISTRIBUTION OF SYSTEM SOFTWARE                            | ADVANCED TECHNOLOGY SYSTEMS | \$4.8M       | JAN 87 - JAN 90              |
|                        | 0 ESTABLISH SUPPLEMENTAL GUIDELINES FOR SOFTWARE DEVELOPMENT AND SYSTEM OPERATION |                             |              |                              |
|                        | 0 DATA BASE ANALYSIS                                                              |                             |              |                              |
|                        | 0 SOFTWARE SUPPORT                                                                |                             |              |                              |

MAJOR JDSSC CONTRACTURAL EFFORTS  
(CURRENT)  
(CONTINUED)

- DEVELOP CONVERSION AIDS
- DEVELOP, MAINTAIN AND DOCUMENT TEST PACKAGES
- PROVIDE INSTALLATION SUPPORT
- MAINTAIN PRODUCT INVENTORTES

TO BE RECOMPETED

- \*100% SMALL BUSINESS SET ASIDE

TO BE RECOMPETED

ANTICIPATED ANNOUNCEMENT DATE: JUL 90  
CONTRACT PERIOD(S): JAN 90 - JAN 93  
DOLLAR VALUE: \$4M - \$6M

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

| <u>DESCRIPTION</u>                                                                                                                                                                                                                                                                                                    | <u>VALUE RANGE</u> | <u>ANTICIPATED<br/>ANNOUNCEMENT<br/>DATE</u> | <u>PERIOD OF<br/>PERFORMANCE</u> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------|----------------------------------|
| DEFENSE DATA NETWORK INTERFACE ADAPTOR                                                                                                                                                                                                                                                                                | \$4M - \$5M        | JUL 88                                       | JUL 89 - JAN 91                  |
| <ul style="list-style-type: none"> <li>0 DEVELOP ADAPTOR TO CONNECT REMOTE TERMINALS AND REMOTE WMMCCS PROCESSORS TO DDN</li> <li>- SUPPORT DOD STANDARD PROTOCOL SUITE</li> <li>- HARDWARE AND SOFTWARE DEVELOPMENT</li> <li>- MULTI USER ENVIRONMENT</li> <li>- USER DOCUMENTATION AND TRAINING REQUIRED</li> </ul> |                    |                                              |                                  |
| <ul style="list-style-type: none"> <li>0 POST DEVELOPMENT/DEPLOYMENT SUPPORT WILL CONTINUE TO BE CONTRACTED</li> </ul>                                                                                                                                                                                                |                    |                                              |                                  |
| LOCAL AREA NETWORK (LAN) DEVELOPMENT AND MAINTENANCE SUPPORT                                                                                                                                                                                                                                                          | LESS THAN \$1M     | JUN 89                                       | JAN 90 - DEC 93                  |
| <ul style="list-style-type: none"> <li>0 OPERATE, MAINTAIN AND ENHANCE WIS-DEVELOPED LANS</li> </ul>                                                                                                                                                                                                                  |                    |                                              |                                  |

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

| <u>DESCRIPTION</u>                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>VALUE RANGE</u> | <u>ANTICIPATED<br/>ANNOUNCEMENT<br/>DATE</u> | <u>PERIOD OF<br/>PERFORMANCE</u> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------|----------------------------------|
| ISO PROTOCOL SUPPORT                                                                                                                                                                                                                                                                                                                                                                                                                        | \$3.5M - \$4.5M    | JUN 89                                       | JAN 90 - JAN 92                  |
| 0 PROVIDE ISO PROTOCOL COMMUNICATIONS FOR THE WIS/WMMCCS BASED SYSTEMS<br>- IDENTIFY AND EVALUATE COMMERCIAL OFF THE SHELF PROTOCOL PRODUCTS MOST SUITABLE FOR WMMCCS<br>- IDENTIFY AREAS IN WHICH ENHANCEMENTS ARE NEEDED TO SATISFY WMMCCS REQUIREMENTS<br>- SECURITY<br>- NETWORK MANAGEMENT<br>- FUNCTIONALITY<br>- INTERFACES TO EXISTING APPLICATIONS<br>- IMPLEMENT REQUIRED ENHANCEMENTS AND PROVIDE AN INTEGRATED SUITE FOR WMMCCS |                    |                                              |                                  |

MAJOR JDSSC CONTRACTURAL EFFORTS  
(FUTURE)

| DESCRIPTION                                                                                       | VALUE RANGE | ANTICIPATED ANNOUNCEMENT DATE | PERIOD OF PERFORMANCE |
|---------------------------------------------------------------------------------------------------|-------------|-------------------------------|-----------------------|
| WIS CONFIGURATION<br>MANAGEMENT SYSTEM                                                            |             |                               |                       |
| 0 DEVELOP AN AUTOMATED<br>CONFIGURATION MANAGEMENT<br>SYSTEM FOR THE WWMCCS<br>INFORMATION SYSTEM | \$4M - 6M   | 1990                          | 1990 1993             |

#0556-H-CV



**JOINT TEST ELEMENT SETA  
CONTRACT DESCRIPTION**

THE SERVICES PROVIDED BY THE CONTRACTOR SHALL ENCOMPASS A WIDE RANGE OF SCIENTIFIC, ENGINEERING, AND INTEGRATED LOGISTICS SUPPORT TASKS IN SUPPORT OF JTC3A MISSIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SUPPORT ASPECTS DURING PLANNING, CONDUCTING AND REPORTING OF INTEROPERABILITY TESTING. THE CONTRACTOR SERVICES SHALL ALSO INCLUDE DEVELOPMENT, DESIGN, AND ENGINEERING MAINTENANCE FOR SELECTED ITEMS OF EQUIPMENT USED IN THE JOINT TEST FACILITY.

**FUNCTIONAL DESCRIPTION OF SYSTEM**

**SUPPORTS:**

- WHO: JOINT TEST ELEMENT, FORT HUACHUCA, AZ
- WHAT MISSION: INTEROPERABILITY TESTING
- HOW: BY PROVIDING NON-PERSONAL SERVICES IN RESPONSE TO VARIOUS TASKS
- WHY: EXPAND EXPERIENCE BASE AT JTE TO SUPPORT TESTING MISSION
- PRODUCTS: SERVICES AND REPORTS
- DELIVERABLES: VARIES ACCORDING TO TASK

**CONTRACT DATA**

**CONTRACTING AGENCY:** FORT HUACHUCA  
**USER COMMAND/AGENCY:** JTC3A  
**POINT OF CONTACT:** GERRY GORZOCH,  
 1-602-538-1691  
**KEY LOCATIONS:** FORT HUACHUCA, AZ  
**CONTRACT PERIOD(S):** DOLLAR VALUE

|                 |                 |
|-----------------|-----------------|
| JUL 88 - JUL 89 | 500K - 1000K    |
| JUL 89 - JUL 90 | 700K - 1,200K   |
| JUL 90 - JUL 91 | 900K - 1,400K   |
| JUL 91 - JUL 92 | 1,100K - 1,600K |

**MAJOR JTC3A CONTRACTUAL EFFORTS  
FUTURE**

| <u>DESCRIPTION</u>                                                     | <u>VALUE RANGE</u>                             | <u>ANTICIPATED<br/>ANNOUNCEMENT<br/>DATE</u> | <u>PERIOD OF<br/>PERFORMANCE</u>                                         |
|------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------|
| JTE SETA CONTRACT<br>TO PROVIDE ENGINEERING<br>AND SCIENTIFIC SUPPORT. | 500K - 1000K<br>700K - 1,200K<br>900K - 1,400K | FEB 88                                       | OCT 88 - OCT 89<br>OCT 89 - OCT 90<br>OCT 90 - OCT 91<br>OCT 91 - OCT 92 |
| 100% SMALL BUSINESS<br>SET-ASIDE                                       | 1,100K - 1,600K                                |                                              |                                                                          |

#056-H-CV

**JOINT TEST CENTER SETA  
CONTRACT DESCRIPTION**

THE SERVICES PROVIDED BY THE CONTRACTOR SHALL ENCOMPASS A WIDE RANGE OF SCIENTIFIC, ENGINEERING, AND INTEGRATED LOGISTICS SUPPORT TASKS IN SUPPORT OF JTC3A MISSIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SUPPORT ASPECTS DURING PLANNING, CONDUCTING AND REPORTING OF INTEROPERABILITY TESTING. THE CONTRACTOR SERVICES SHALL ALSO INCLUDE DEVELOPMENT, DESIGN, AND ENGINEERING MAINTENANCE FOR SELECTED ITEMS OF EQUIPMENT USED IN THE JOINT TEST FACILITY.

**FUNCTIONAL DESCRIPTION OF SYSTEM**

**SUPPORTS:**

- WHO: JOINT TEST CENTER, FORT HUACHUCA, AZ
- WHAT MISSION: INTEROPERABILITY TESTING
- HOW: BY PROVIDING NON-PERSONAL SERVICES IN RESPONSE TO VARIOUS TASKS
- WHY: EXPAND EXPERIENCE BASE AT JTC TO SUPPORT TESTING MISSION
- PRODUCTS: PRINCIPALLY REPORTS
- DELIVERABLES: VARIES ACCORDING TO TASK

**CONTRACT DATA**

CONTRACTING AGENCY: FORT HUACHUCA  
 USER COMMAND/AGENCY: JTC3A  
 POINT OF CONTACT: MR. STEVE BRIDGES,  
 1-602-538-2910  
 FORT HUACHUCA, AZ

| <u>CONTRACT PERIOD(S):</u> | <u>DOLLAR VALUE</u> |
|----------------------------|---------------------|
| JUL 92 - JUL 93            | 2,000K - 4,000K     |
| JUL 93 - JUL 94            | 2,250K - 4,250K     |
| JUL 94 - JUL 95            | 2,500K - 4,500K     |
| JUL 95 - JUL 96            | 2,750K - 4,750K     |
| JUL 96 - JUL 97            | 3,000K - 5,000K     |

**MAJOR JTC3A CONTRACTUAL EFFORTS  
FUTURE**

| <u>DESCRIPTION</u>                    | <u>VALUE RANGE</u> | <u>ANTICIPATED ANNOUNCEMENT DATE</u> | <u>PERIOD OF PERFORMANCE</u> |
|---------------------------------------|--------------------|--------------------------------------|------------------------------|
| PROVIDE SETA TO THE JOINT TEST CENTER | 2,000K - 4,000K    | DEC 91                               | OCT 92 - OCT 93              |
|                                       | 2,250K - 4,250K    |                                      | OCT 93 - OCT 94              |
|                                       | 2,500K - 4,500K    |                                      | OCT 94 - OCT 95              |
|                                       | 2,750K - 4,750K    |                                      | OCT 95 - OCT 96              |
|                                       | 3,000K - 5,000K    |                                      | OCT 96 - OCT 97              |

**JOINT TEST CENTER O&M  
CONTRACT DESCRIPTION**

THE CONTRACTOR WILL BE TASKED TO PERFORM NON-PERSONAL TECHNICAL SUPPORT INVOLVING INTEROPERABILITY TESTING. THIS SUPPORT WILL ENCOMPASS A WIDE RANGE OF FUNCTIONS TO INCLUDE SITE PREPARATION, EQUIPMENT CONFIGURATION, OPERATION OF GOVERNMENT OWNED TEST EQUIPMENT, AND MAINTENANCE OF SUCH EQUIPMENT.

**FUNCTIONAL DESCRIPTION OF SYSTEM**

**SUPPORTS:**

- WHO: JOINT TEST CENTER, FORT HUACHUCA, AZ
- WHAT MISSION: INTEROPERABILITY TESTING
- HOW: PROVIDING NON-PERSONAL SERVICES IN RESPONSE TO TASK ASSIGNMENTS
- WHY: EXPAND EXPERTISE AND CAPABILITY OF THE JTC TO PERFORM ITS MISSION
- PRODUCTS: SERVICES AND REPORTS
- DELIVERABLES: VARIES DEPENDING UPON TASK ASSIGNED

**CONTRACT DATA**

CONTRACTING AGENCY: FORT HUACHUCA  
 USER COMMAND/AGENCY: JTC3A  
 POINT OF CONTACT: MR. STEVE BRIDGES,  
 1-602-538-2910  
 FORT HUACHUCA, AZ

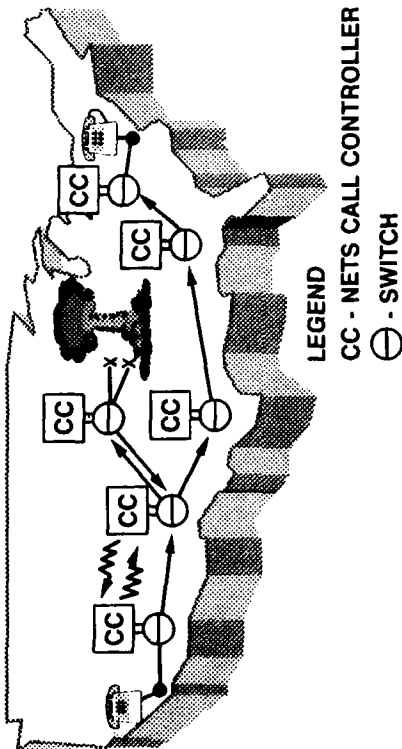
| <u>CONTRACT PERIOD(S):</u> | <u>DOLLAR VALUE</u> |
|----------------------------|---------------------|
| MAR 92 - MAR 93            | 4,000K - 6,000K     |
| MAR 93 - MAR 94            | 4,500K - 6,500K     |
| MAR 94 - MAR 95            | 5,000K - 7,000K     |
| MAR 95 - MAR 96            | 5,500K - 7,500K     |
| MAR 96 - MAR 97            | 6,000K - 8,000K     |

**MAJOR JTC3A CONTRACTUAL EFFORTS  
FUTURE**

| <u>DESCRIPTION</u>                               | <u>VALUE RANGE</u>                                                                          | <u>ANTICIPATED ANNOUNCEMENT DATE</u> | <u>PERIOD OF PERFORMANCE</u>                                                                |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------|
| OPERATE AND MAINTAIN JOINT TEST CENTER EQUIPMENT | 4,000K - 6,000K<br>4,500K - 6,500K<br>5,000K - 7,000K<br>5,500K - 7,500K<br>6,000K - 8,000K | AUG 91                               | MAR 92 - MAR 93<br>MAR 93 - MAR 94<br>MAR 94 - MAR 95<br>MAR 95 - MAR 96<br>MAR 96 - MAR 97 |

#056-H-CV

# NATIONWIDE EMERGENCY TELECOMMUNICATIONS SERVICE



## FUNCTIONAL DESCRIPTION OF NETS

- SUPPORTS EXECUTIVE AGENCIES DURING NATIONAL EMERGENCIES
- EXPLOITS SURVIVING ASSETS OF PSN
- CIRCUMVENTS LIMITED ROUTING OF PSN
- DISTRIBUTED CALL CONTROLLING MECHANISMS
- MULTIPLE CARRIERS, LOCAL OPERATING COMPANIES
- WILL SUPPORT VOICE AND 2.4KB/S DATA

## CONTRACT DATA

CONTRACTING AGENCY: DECCO  
 POINT OF CONTACT: DON MILLER  
 LOCATION: SCOTT AFB

PRIME CONTRACT PERIOD:  
 DEC 90 - DEC 95  
 PLUS OPTION YEARS

## MILESTONES

- RELEASE OF RFP AUG 89
- CONTRACT AWARD DEC 90
- IOC DEC 93
- FOC FY 96

#057-CV

# NATIONWIDE EMERGENCY TELECOMMUNICATIONS SERVICE

## NATIONAL COMMUNICATIONS SYSTEM

PROGRAM TITLE: NATIONWIDE EMERGENCY TELECOMMUNICATIONS SERVICE

### SUMMARY PROJECT DESCRIPTION:

OBTAIN A FLEXIBLE AND WIDELY DISTRIBUTED SERVICE, BASED UPON CURRENT AND PROPOSED PUBLIC SWITCHED NETWORKS, TO SUPPLY A HIGHLY SURVIVABLE SWITCHED VOICE-CHANNEL CONNECTIVITY TO MEET NATIONAL SECURITY EMERGENCY PREPAREDNESS REQUIREMENTS.

### SCHEDULE:

|                                  |             |
|----------------------------------|-------------|
| FEASIBILITY STUDIES              | 1981 - 1984 |
| INITIAL SYSTEM ENGINEERING       | 1983 - 1986 |
| DEMONSTRATION NETWORK            | 1984 - 1986 |
| SYSTEM SPECIFICATION DEVELOPMENT | 1986 - 1988 |
| PRIME RFP ISSUES                 | 1989        |
| PRIME CONTRACT AWARD             | 1990        |
| IOC                              | 1993        |
| FOC                              | 1996        |

#057-CV

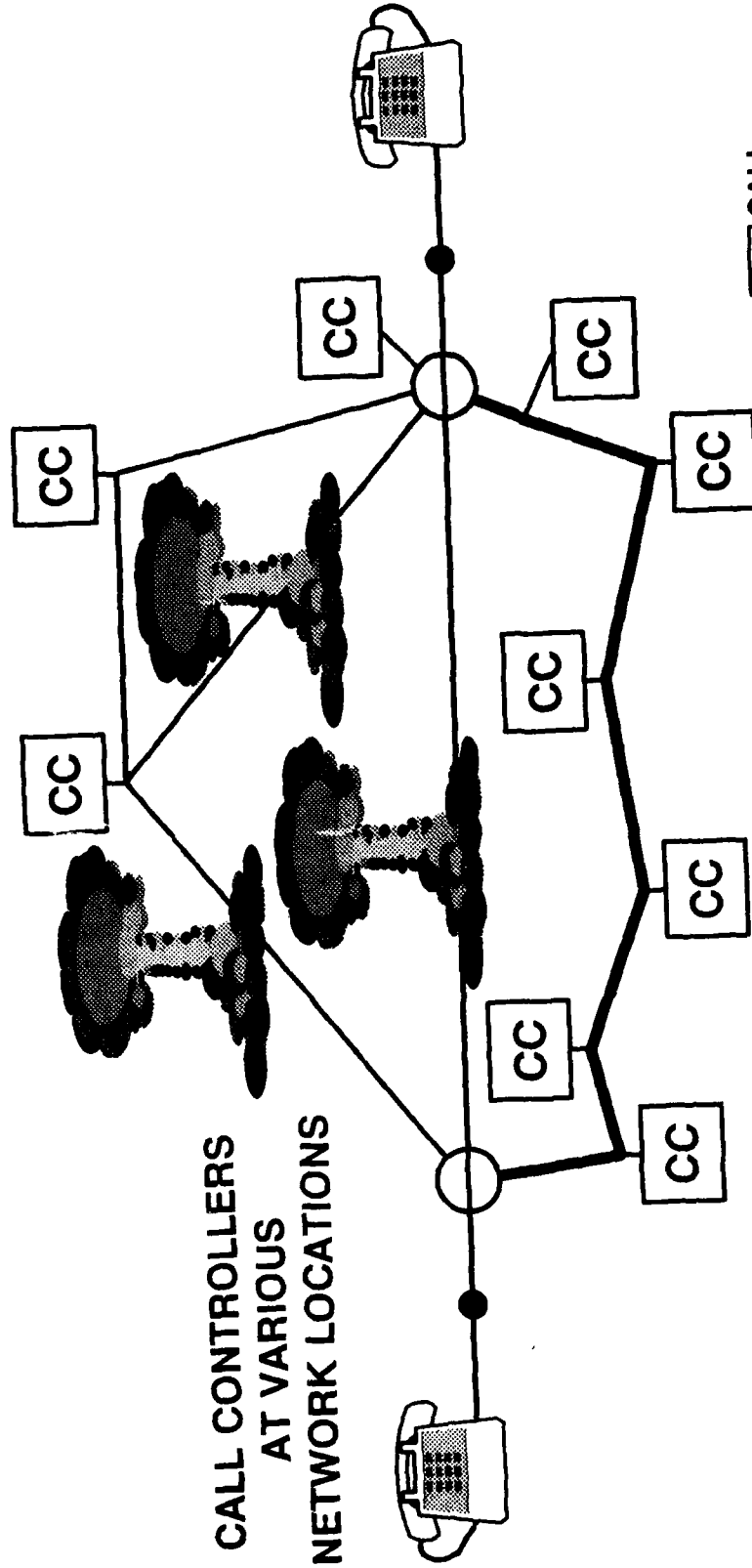
## **PURPOSE**

- **TO PROVIDE AN OVERVIEW  
OF THE NETS PROGRAM**

## **WHAT IS NETS?**

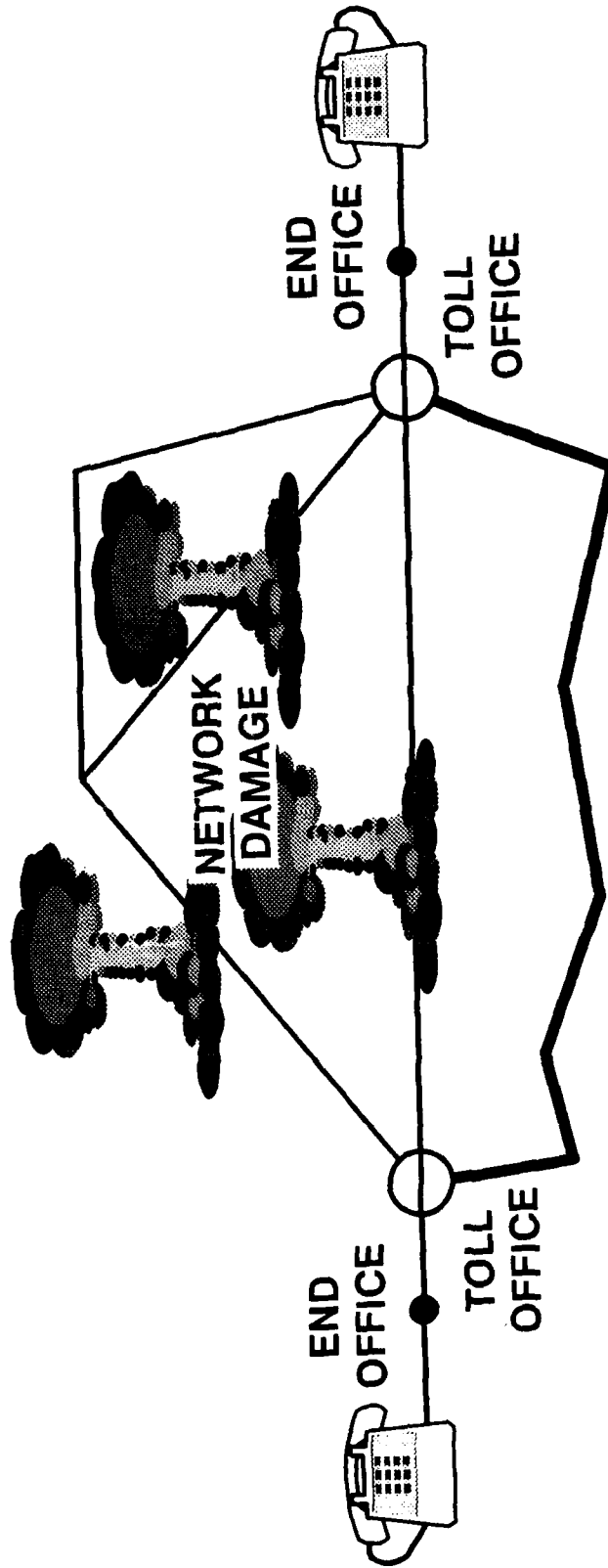
- **A MAJOR OMNCS INITIATIVE FOR THE IMPROVEMENT OF NSEP TELECOMMUNICATIONS**
- **A HIGHLY SURVIVABLE, INTERAGENCY VOICE AND LOW-SPEED-DATA COMMUNICATIONS SERVICE**
- **A DISTRIBUTED SYSTEM OF CALL CONTROLLERS AND OTHER SURVIVABILITY ENHANCEMENTS INSTALLED WITHIN THE PUBLIC SWITCHED NETWORKS**

# THE ROLE OF NETS IN EMERGENCY COMMUNICATIONS



NETS USES SURVIVING FACILITIES TO MAKE CALL COMPLETION POSSIBLE

# MINIMAL POST-ATTACK CONNECTIVITY



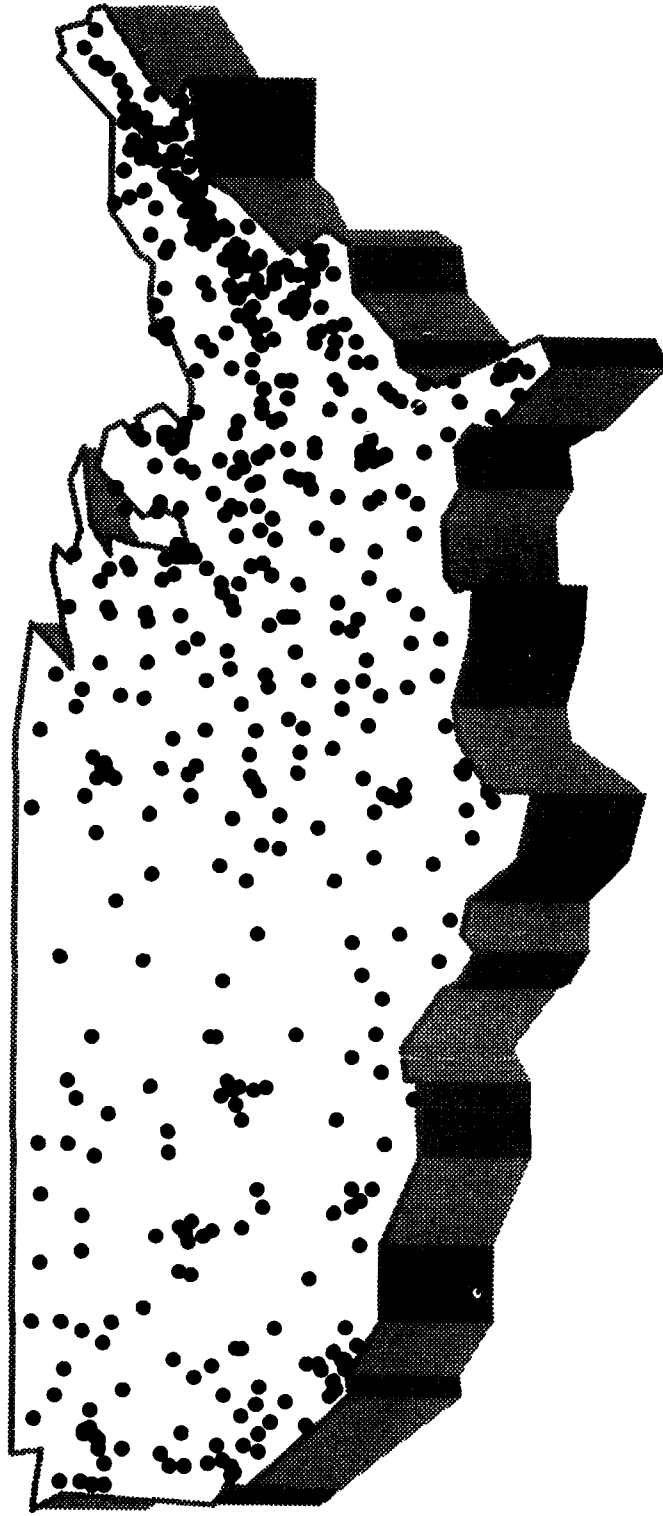
SURVIVING FACILITIES BUT  
NO CALL COMPLETION POSSIBLE

#057-CV

## **NETS BACKGROUND**

- **BASED ON SURVIVABILITY STUDIES THAT SHOWED SIGNIFICANT PORTIONS OF THE PUBLIC NETWORKS SURVIVE AN ATTACK**
- **OMNCS STUDY IN 1981 INDICATED A NETWORK OF SURVIVING SWITCHES/FACILITIES TECHNICALLY FEASIBLE**
- **ADDITIONAL STUDIES, REQUIREMENTS DEFINITION, ENGINEERING, AND DEMONSTRATIONS CONDUCTED IN 1982-1985**
- **GOVERNMENT (EXECUTIVE OFFICE OF THE PRESIDENT) DECISION TO FUND NETS ON AN NCS AGENCY SHARED BASIS (1985)**
- **GOVERNMENT DECISION TO PROCEED WITH SYSTEM/COMPONENT SPECIFICATIONS (1985-86)**
- **BEGAN STRUCTURING FOR COMPETITIVE ACQUISITION (1987)**

# USER DISTRIBUTION



#057-J-CV

# ATTRIBUTES AND LIMITATIONS OF THE PUBLIC SWITCHED NETWORKS

## ATTRIBUTES

- UBIQUITOUS ACCESS
- SURVIVABILITY
- EASE OF USE
- ROBUSTNESS
- RELIABILITY
- READINESS
- DIVERSITY OF PHYSICAL PATHS

## LIMITATIONS

- LIMITED ROUTING ALTERNATIVES AND NOT EXHAUSTIVELY PROBED
- CENTRALIZED SIGNALING
- CONSOLIDATION OF TRAFFIC ON HIGH CAPACITY ROUTES

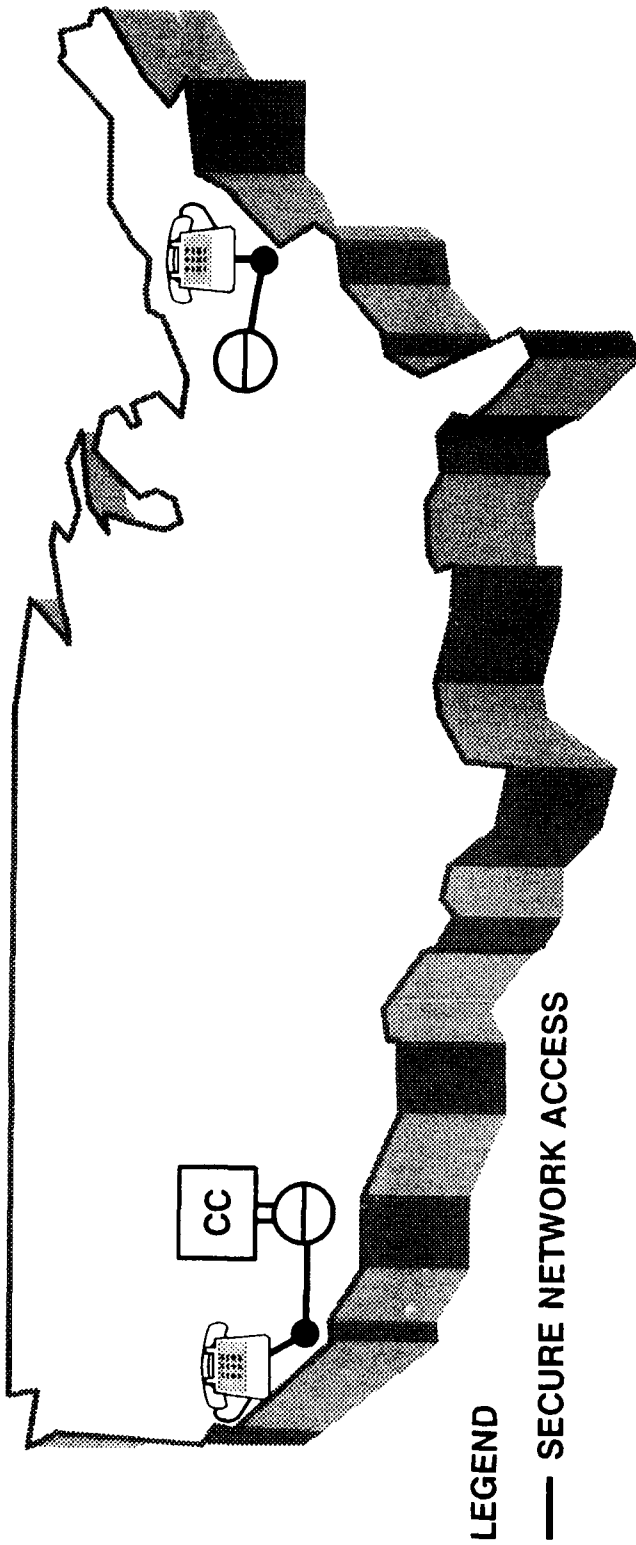
## **NETS ATTRIBUTES**

- **NATIONWIDE COVERAGE**
- **INTEROPERABILITY WITH CARRIERS  
AND USER SYSTEMS**
- **SECURITY FEATURES**
- **CONSTANT STATE OF READINESS**
- **PRIORITY SERVICE**
- **SURVIVABILITY**

## **NETS ENHANCEMENTS TO PUBLIC SWITCHED NETWORK CAPABILITIES**

- **EXTENSIVELY PROBES AVAILABLE ROUTES**
- **PROVIDES TRANSMISSION TREATMENT FOR NON-STANDARD ROUTES**
- **PROVIDES CAPABILITY TO USE NETWORK MANAGEMENT CONTROLS TO IMPROVE HANDLING OF NATIONAL SECURITY EMERGENCY PREPAREDNESS TRAFFIC**
- **PROVIDES CAPABILITY TO USE AUGMENTATIONS (e.g., INTERCONNECTIONS AND NEW ROUTES)**

# HOW NETS WORKS

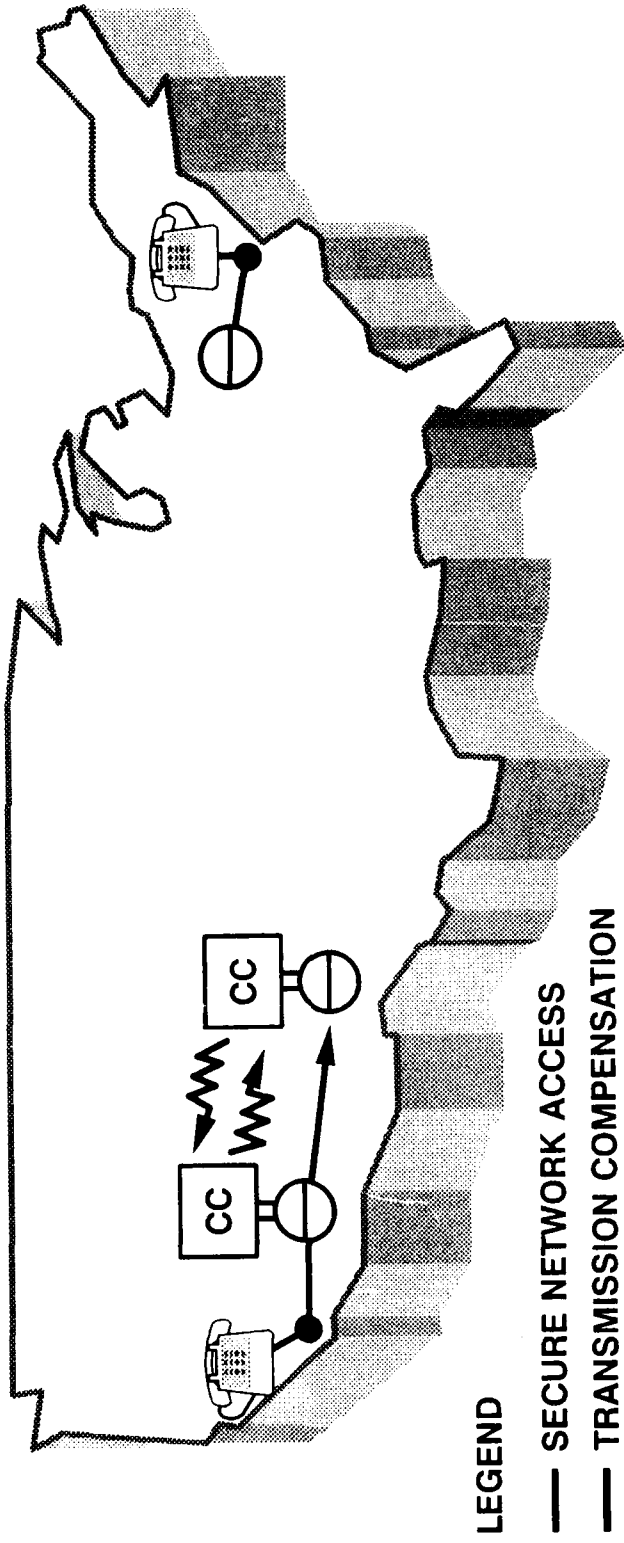


LEGEND

— SECURE NETWORK ACCESS

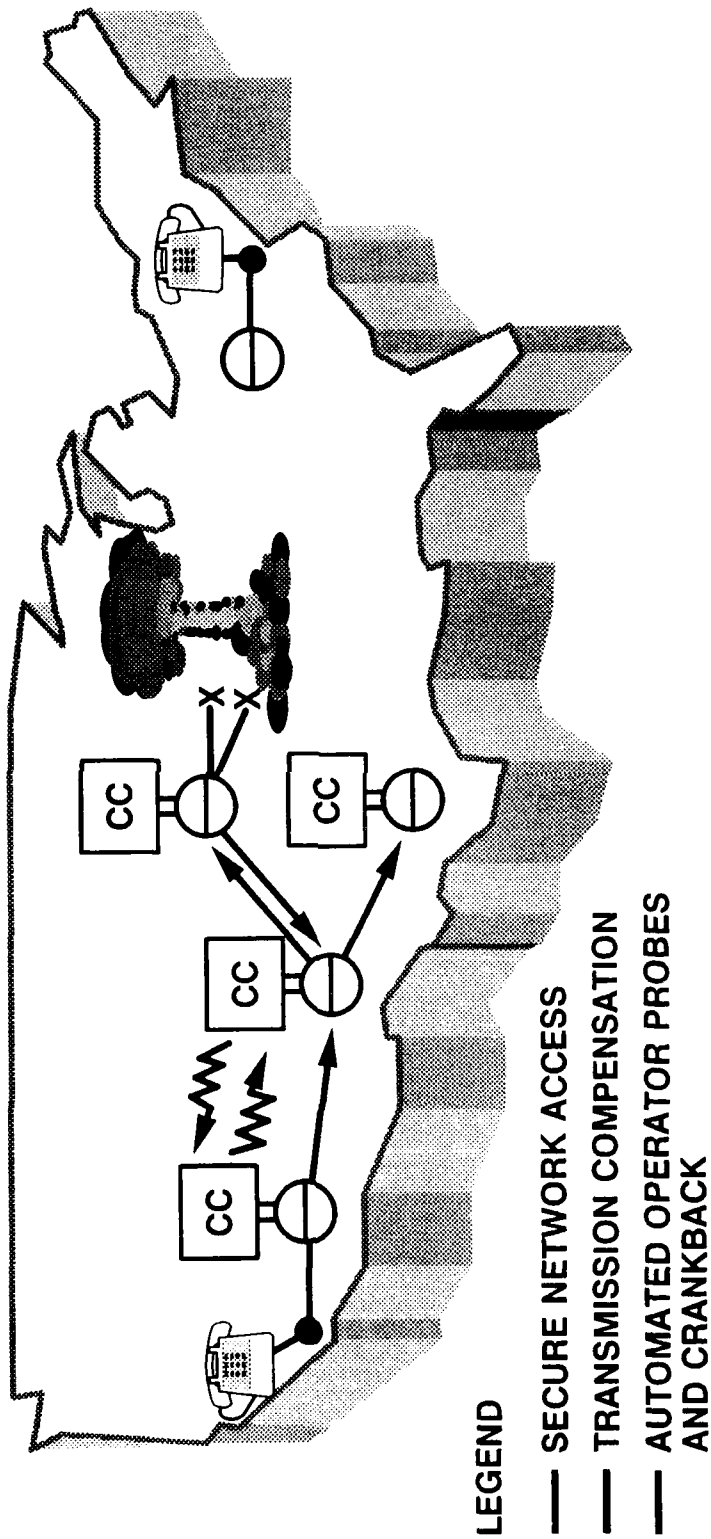
#057-J-CV

# HOW NETS WORKS



#057-J-CV

# HOW NETS WORKS



## LEGEND

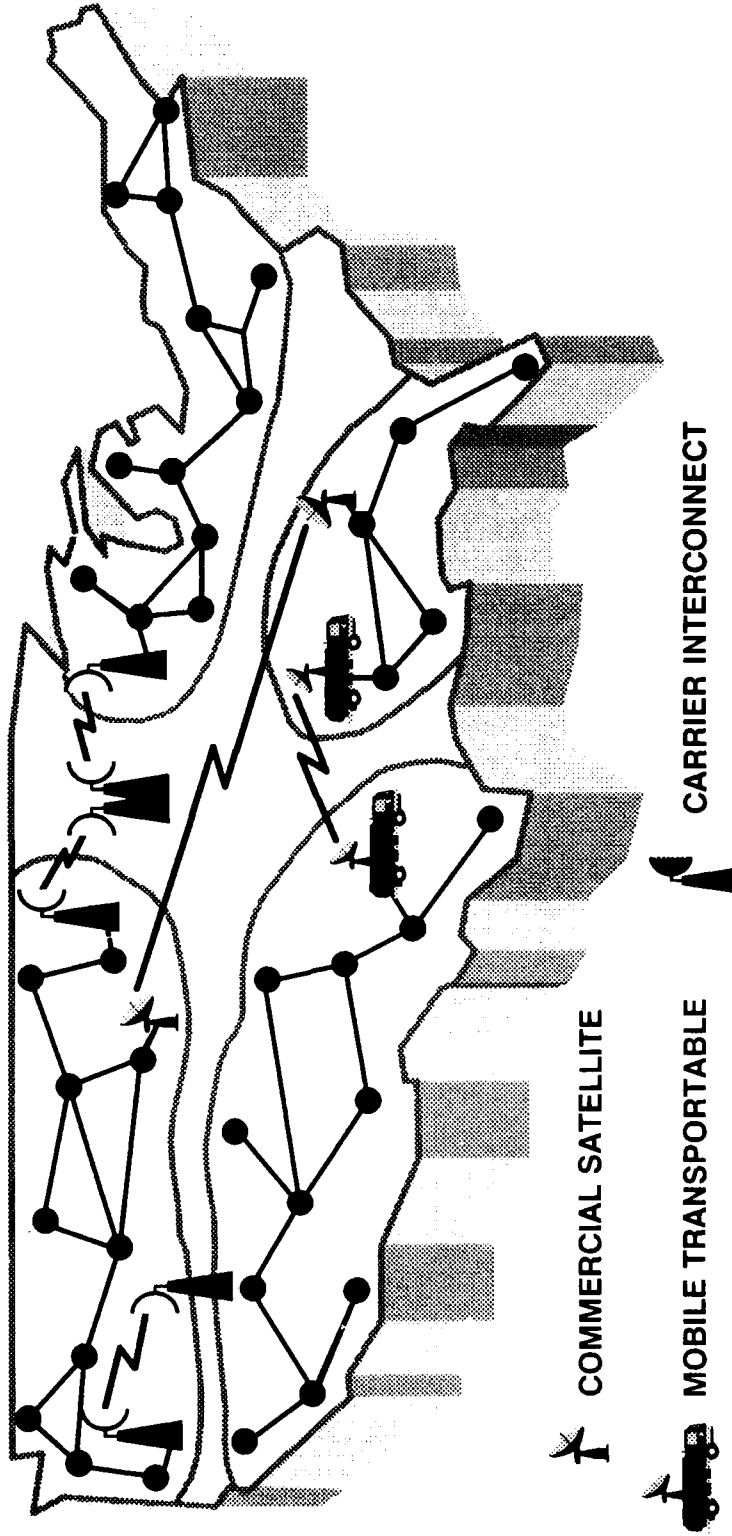
- SECURE NETWORK ACCESS
- - - TRANSMISSION COMPENSATION
- AUTOMATED OPERATOR PROBES AND CRANKBACK

#057~J-CV



# TRANSMISSION AUGMENTATION

## SURVIVING COMMON CARRIER ENCLAVES

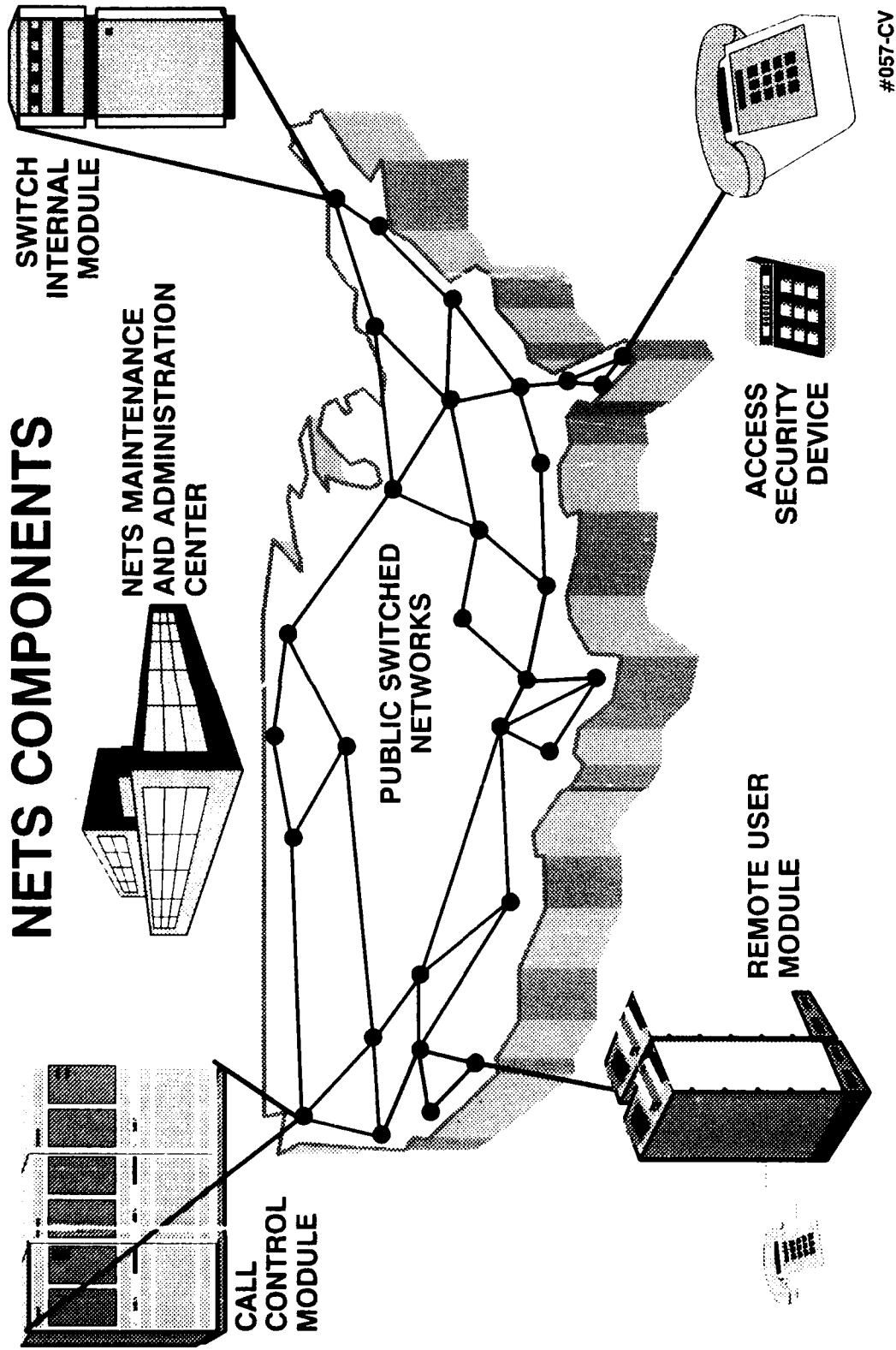


#057-J-CV

## **FEATURES AND FUNCTIONS**

- **UNIVERSAL NUMBERING PLAN**
- **TONES AND ANNOUNCEMENTS**
- **PRIORITY, PRECEDENCE, PREEMPTION**
- **RETRY CAPABILITY**
- **PRESET CONNECTIONS**
- **ACCESS SECURITY**
- **VOICE AND 2400 B/S DATA SERVICE**

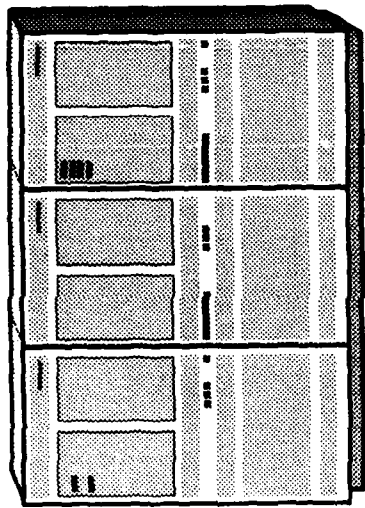
# NETS COMPONENTS



# **FUNCTIONS OF NETS CALL CONTROLLERS**

- **ROUTING**
- **SIGNALING**
- **TRAFFIC MANAGEMENT**
- **TRANSMISSION TREATMENT**
- **ACCESS SECURITY**

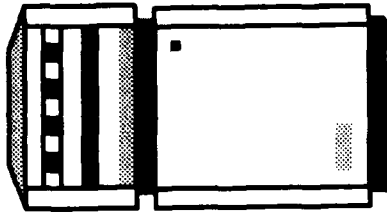
## CALL CONTROL MODULE



- CONNECTED TO A HOST SWITCH VIA STANDARD TRUNK INTERFACES
- USES PSN AND SPECIAL NETS ROUTING PROBES
- PROVIDES ACCESS SECURITY FUNCTIONS
- PROVIDES TRANSMISSION COMPENSATION
- STORES CALL RECORDS

#057-J-CV

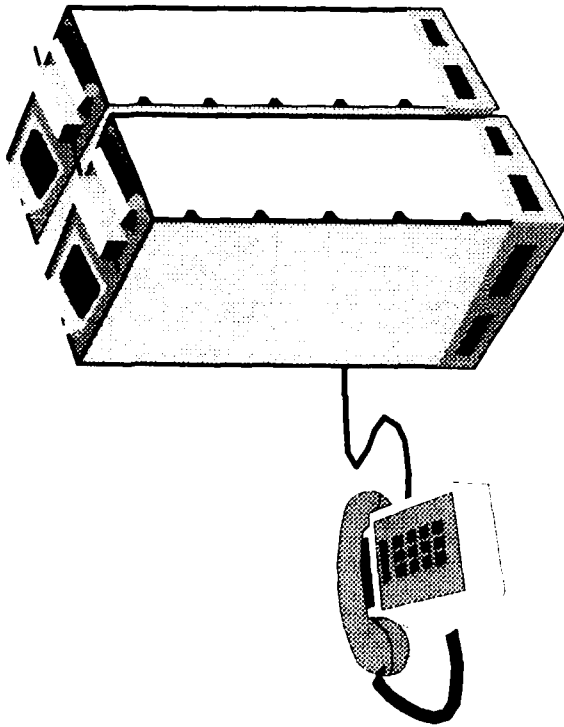
## SWITCH INTERNAL MODULE



- IMPLEMENTATION OF CALL CONTROLLER FUNCTIONS IN NORTHERN TELECOM DMS 100 FAMILY OF SWITCHES
- PERFORMS ROUTING, SIGNALING, AND SOME NETWORK MANAGEMENT CONTROLS
- DEVELOPED AND DEPLOYED BY THE SWITCH MANUFACTURER
- ADDITION OF SECURITY AND TRANSMISSION TREATMENT HARDWARE UNDER CONSIDERATION

#057-CV

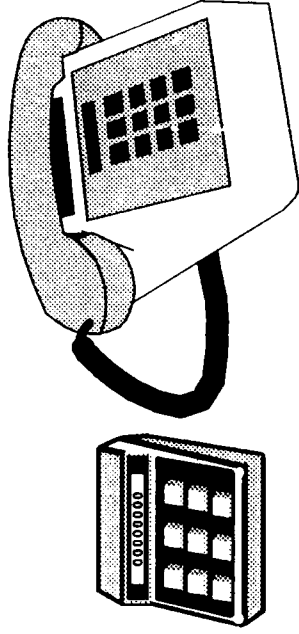
## REMOTE USER MODULE



- AN OPTIONAL CUSTOMER PREMISES HARDWARE DEVICE
- PROVIDES TRANSMISSION TREATMENT
- PLANNED FOR LIMITED DISTRIBUTION TO USERS LOCATED A LONG DISTANCE FROM ORIGINATING CALL CONTROLLERS

#057-CV

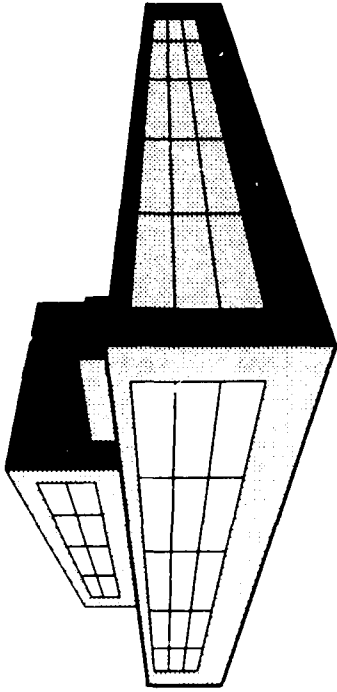
## ACCESS SECURITY DEVICE



- A HAND-HELD DEVICE PERMITTING USERS TO ACCESS THE NETWORK
- ACOUSTIC COUPLING WITH STANDARD TELEPHONES
- PERFORMS THE AUTHENTICATION PROTOCOL WITH CALL CONTROLLERS
- PERMITS ENCRYPTION OF CALL-RELATED INFORMATION (E.G., NUMBER CALLED, PRECEDENCE)

#057-CV

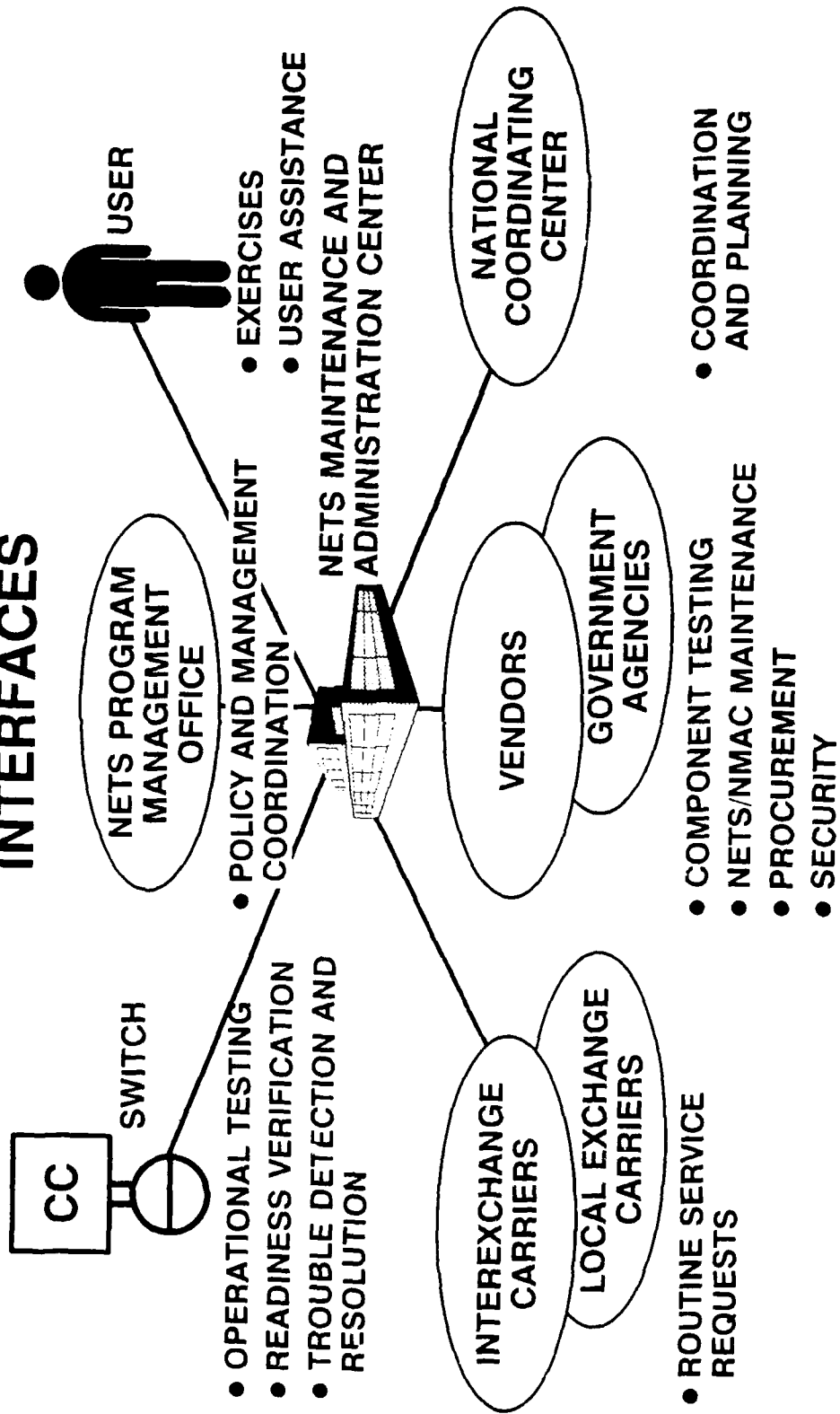
# NETS MAINTENANCE AND ADMINISTRATION CENTER



- AN ADMINISTRATION, OPERATIONS, AND MAINTENANCE CENTER PROVIDING:
  - PLANNING
  - READINESS
  - MAINTENANCE
  - SECURITY
- OPERATED BY CONTRACTOR
- SECURE FACILITY
- NOT NEEDED FOR SURVIVABILITY OF NETS OPERATIONS

#057-CV

# NETS MAINTENANCE AND ADMINISTRATION CENTER INTERFACES



## **ACQUISITION STRATEGY**

**NETS IS PLANNED TO BE ACQUIRED AS  
A TELECOMMUNICATIONS SERVICE -**

- **UNDER FULL AND OPEN COMPETITION**
- **AS ONE MAJOR ACQUISITION**
- **WITH ONE PRIME CONTRACTOR RESPONSIBLE  
FOR SYSTEM INTEGRATION AND REQUIRED  
SUBCONTRACTS**
- **WITH OMNCS AS PROGRAM MANAGER AND  
DCA AS ACQUISITION AGENT**

# MAJOR CONTRACTUAL EFFORTS NATIONAL COMMUNICATIONS SYSTEM NETS

## CURRENT

| <u>CONTRACT NO.</u> | <u>DESCRIPTION</u>                    | <u>INCUMBENT</u>     | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|---------------------|---------------------------------------|----------------------|--------------|------------------------------|
| DCA 100-87-C-0015   | NETS SYSTEM SPEC.<br>AND ASSOC. TASKS | AT&T                 | > 10M        | JAN 86 - APR 88              |
| DCA 100-87-C-0139   | NETS APPLICATION<br>TO NTI DMS FAMILY | NTI                  | < 10M        | SEP 87 - MAR 90              |
| DCA 100-87-C-0142   | US SPRINT SUPPORT<br>TO NETS          | US SPRINT            | < 3M         | SEP 87 - MAR 90              |
|                     | MCi SUPPORT TO NETS                   | MCi                  | < 3M         | FEB 88 - AUG 90              |
|                     | NETS MAINT. AND<br>CONF. MANAGEMENT   | NETWORK<br>SOLUTIONS |              | JAN 88 - JAN 91              |

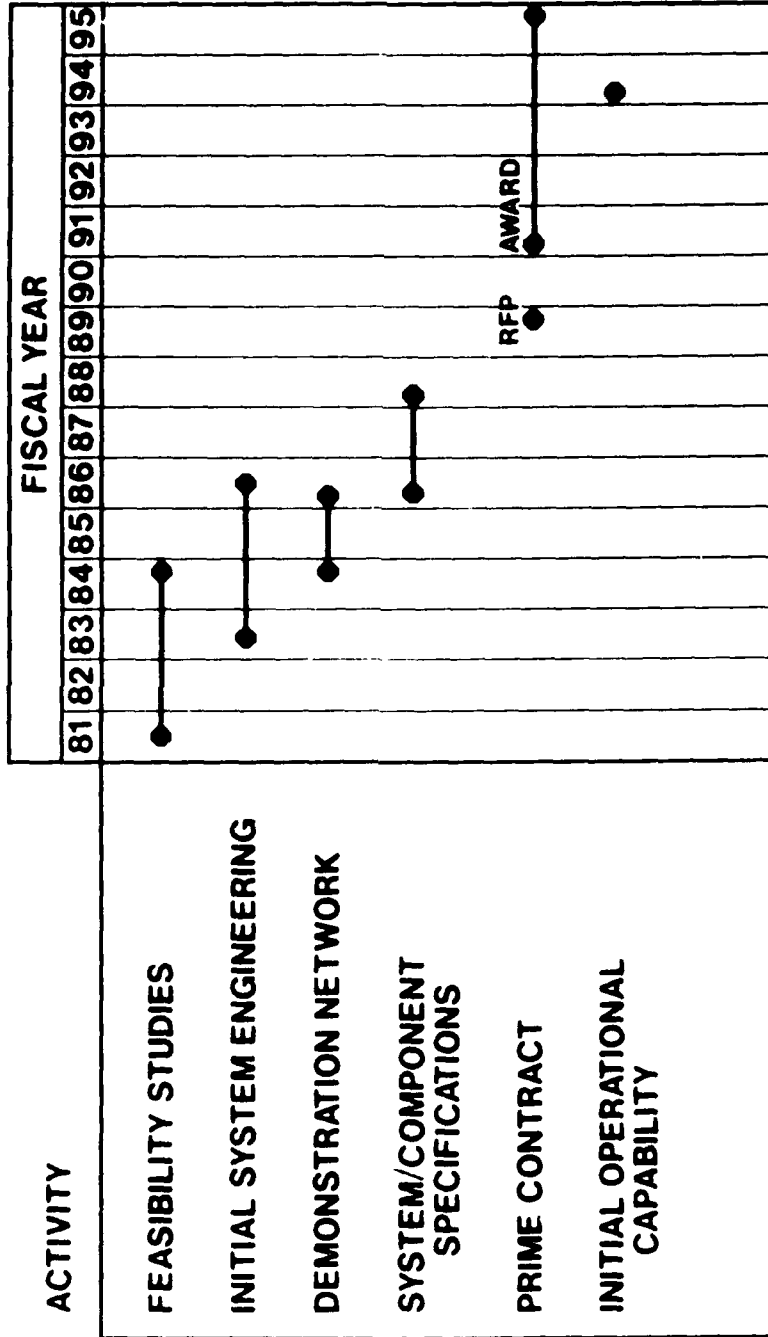
#057-CV

# MAJOR CONTRACTUAL EFFORTS NATIONAL COMMUNICATIONS SYSTEM NETS FUTURE

| <u>DESCRIPTION</u>                                 | <u>VALUE RANGE</u> | <u>ANTICIPATED RFP<br/>DATE</u> | <u>PERIOD OF<br/>PERFORMANCE</u> |
|----------------------------------------------------|--------------------|---------------------------------|----------------------------------|
| LOCAL EXCHANGE CARRIER<br>SUPPORT TO NETS          | <5                 | JAN 88<br>(COMPETITIVE)         | JUN 88 - JAN 90                  |
| ROBUST NON-HIERARCHICAL<br>ROUTING IN AT&T NETWORK | >5M                | APR 88<br>(AT&T)                | AUG 88 - SEP 92                  |
| SURVIVABLE SIGNALING IN<br>THE AT&T NETWORK        | >10M               | APR 88<br>(AT&T)                | SEP 88 - SEP 91                  |
| NETS SETA SUPPORT                                  | >5M                | APR 88<br>(COMPETITIVE)         | SEP 88 - SEP 91                  |
| NETS PRIME CONTRACTOR                              | >10M               | AUG 89<br>(COMPETITIVE)         | DEC 90 - DEC 95                  |

#057-CV

# NETS SCHEDULE & MILESTONES

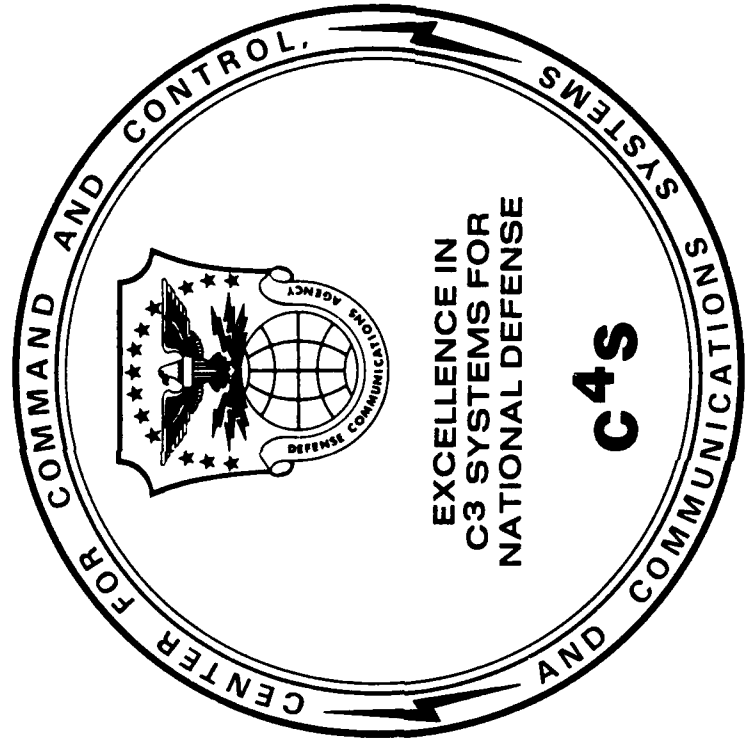


057-44-FEB 88-RC

## **NETS SUMMARY**

- **NETS WILL MEET THE NATIONAL SECURITY EMERGENCY PREPAREDNESS REQUIREMENTS OF THE DIVERSE GOVERNMENT USERS**
- **NETS WILL EMPLOY THE INDUSTRY-WIDE CAPABILITIES OF THE PUBLIC SWITCHED NETWORKS**
- **NETS WILL COMPLEMENT EXISTING AND PLANNED DEDICATED GOVERNMENT SYSTEMS**
- **NETS WILL PROVIDE FEATURES THAT ARE EASY TO USE IN TIMES OF STRESS**

# COMMAND CENTER IMPROVEMENT PROGRAM

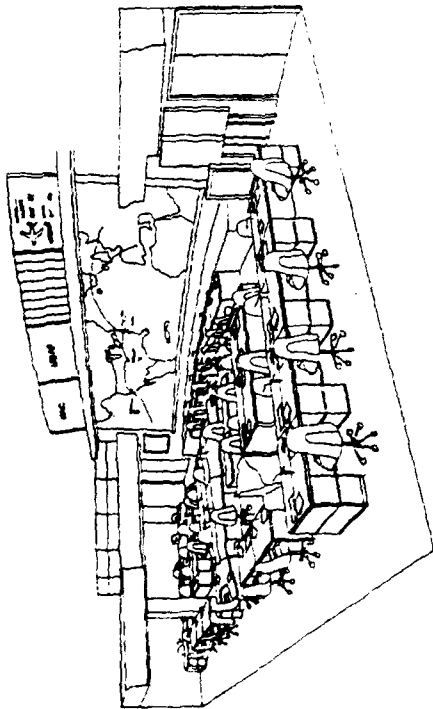


#053-A-CV

# COMMAND CENTER IMPROVEMENT PROGRAM

## FUNCTIONAL DESCRIPTION

1. SUPPORTS UNIFIED AND SPECIFIED COMMANDS
2. MAINTAINING STATE OF THE ART COMMAND CENTERS
3. SOURCE OF INFORMATION ON AVAILABILITY OF COMMERCIAL PRODUCTS
4. ANNUAL CONFERENCE, NEWSLETTER, FACTSHEETS, WORKSHOPS, DEMONSTRATIONS, AND TECHNICAL EVALUATIONS



## CONTRACT DATA

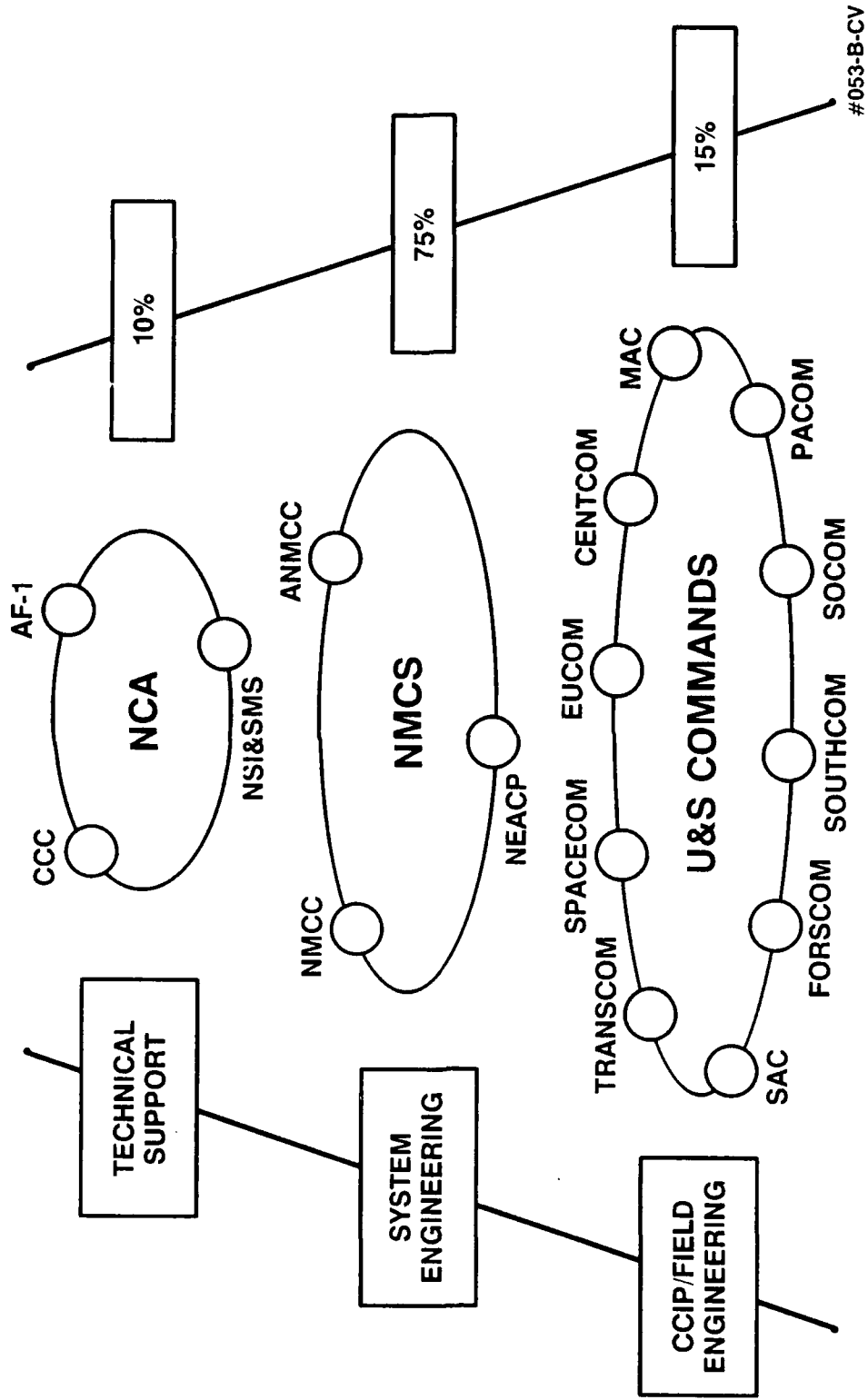
CONTRACTING AGENCY: DCA  
P.O.C.: LTC DOUG BEHNKE  
BOOZ-ALLEN & HAMILTON INC.  
SEP 86-SEP 89 \$5.7M

## KEY MILESTONES

OJCS PROGRAM ESTABLISHED 1984  
MODEL COMMAND CENTER 1986

#053-B-CV

# COMMAND CENTER SYSTEMS PROGRAM



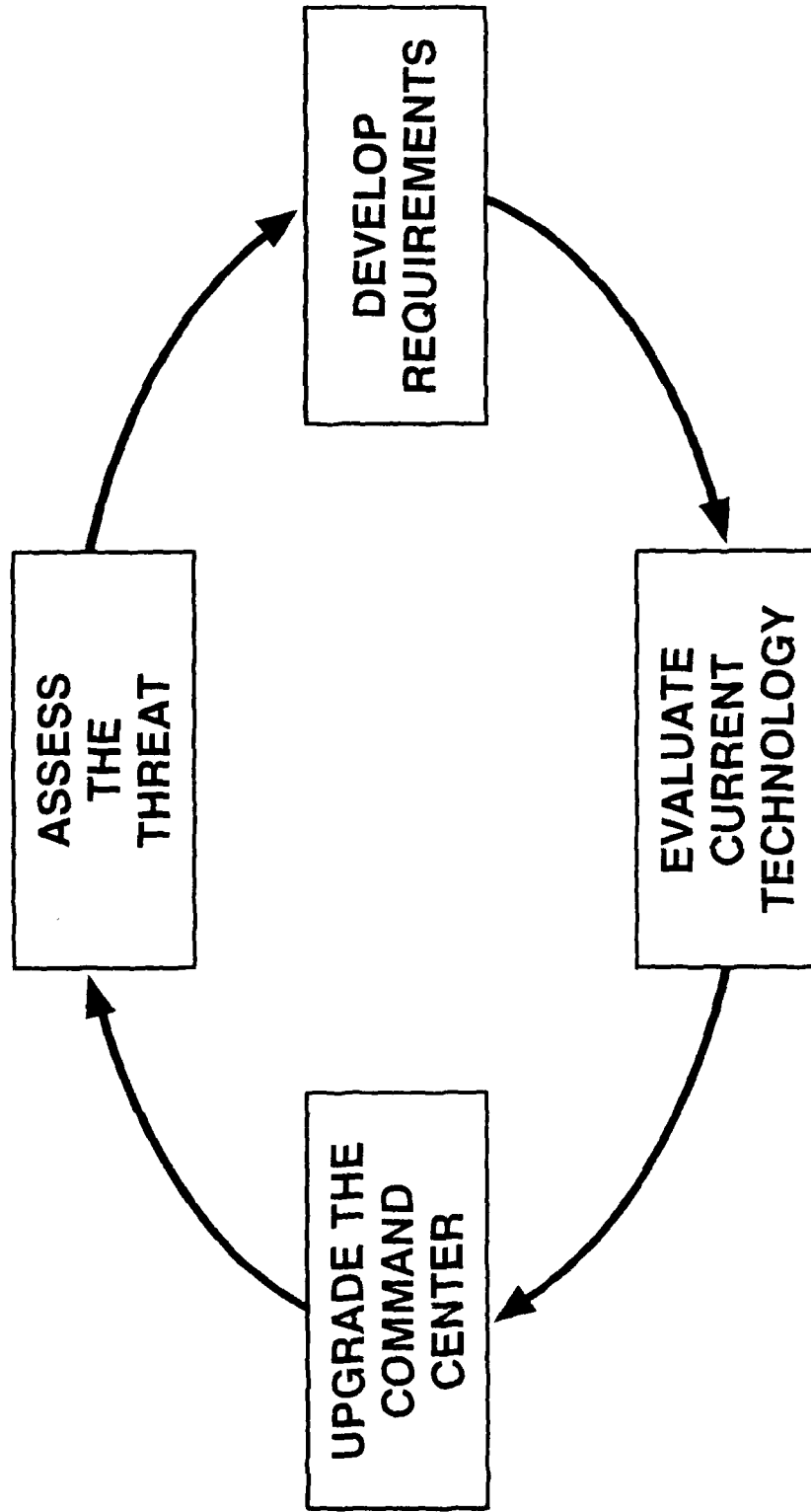
# **COMMAND CENTER IMPROVEMENT PROGRAM**

- **PROVIDE TECHNICAL ADVICE AND LEADERSHIP FOR  
THE MODERNIZATION OF CINC COMMAND CENTERS**
  - **INFORMATION EXCHANGE**
  - **ENGINEERING ASSISTANCE**
  - **RAPID PROTOTYPING**
  - **TECHNICAL DIRECTION**
  - **LESSONS LEARNED FOR NMCC**
  
- **FOSTER THE EFFICIENT APPLICATION OF RESOURCES  
TO ACHIEVE A SIGNIFICANTLY IMPROVED CAPABILITY**
  - **NEW TECHNOLOGY**
  - **COMMONALITY**
  - **INTEROPERABILITY**

## **ORIGINS**

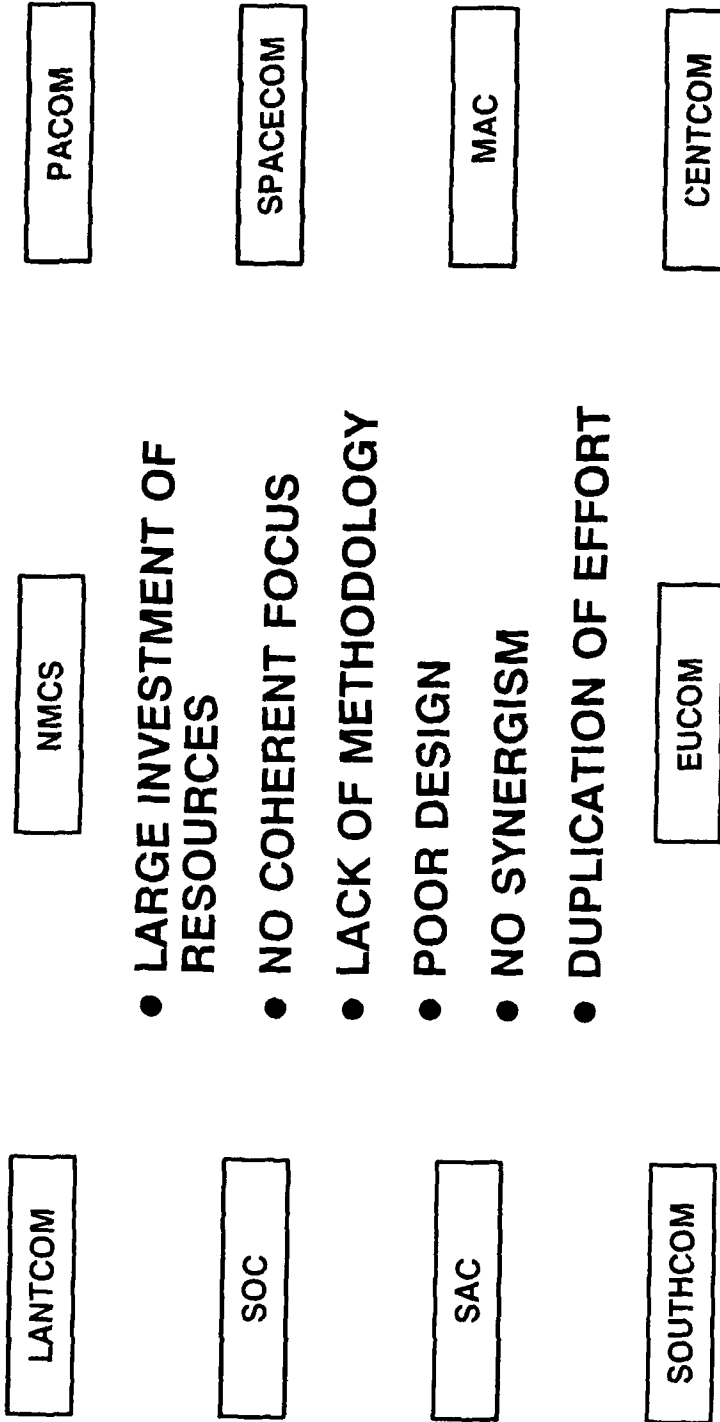
- **PERCEIVED NEED FOR THE TECHNICAL DIALOG BETWEEN U&S COMMAND CENTER OPERATORS RE COMMAND CENTER UPGRADING MATTERS**
- **JCS TASKED DCA TO PROVIDE A MECHANISM FOR SHARING U&S LESSONS LEARNED, JAN 84**

# COMMAND CENTER UPGRADE PROCESS



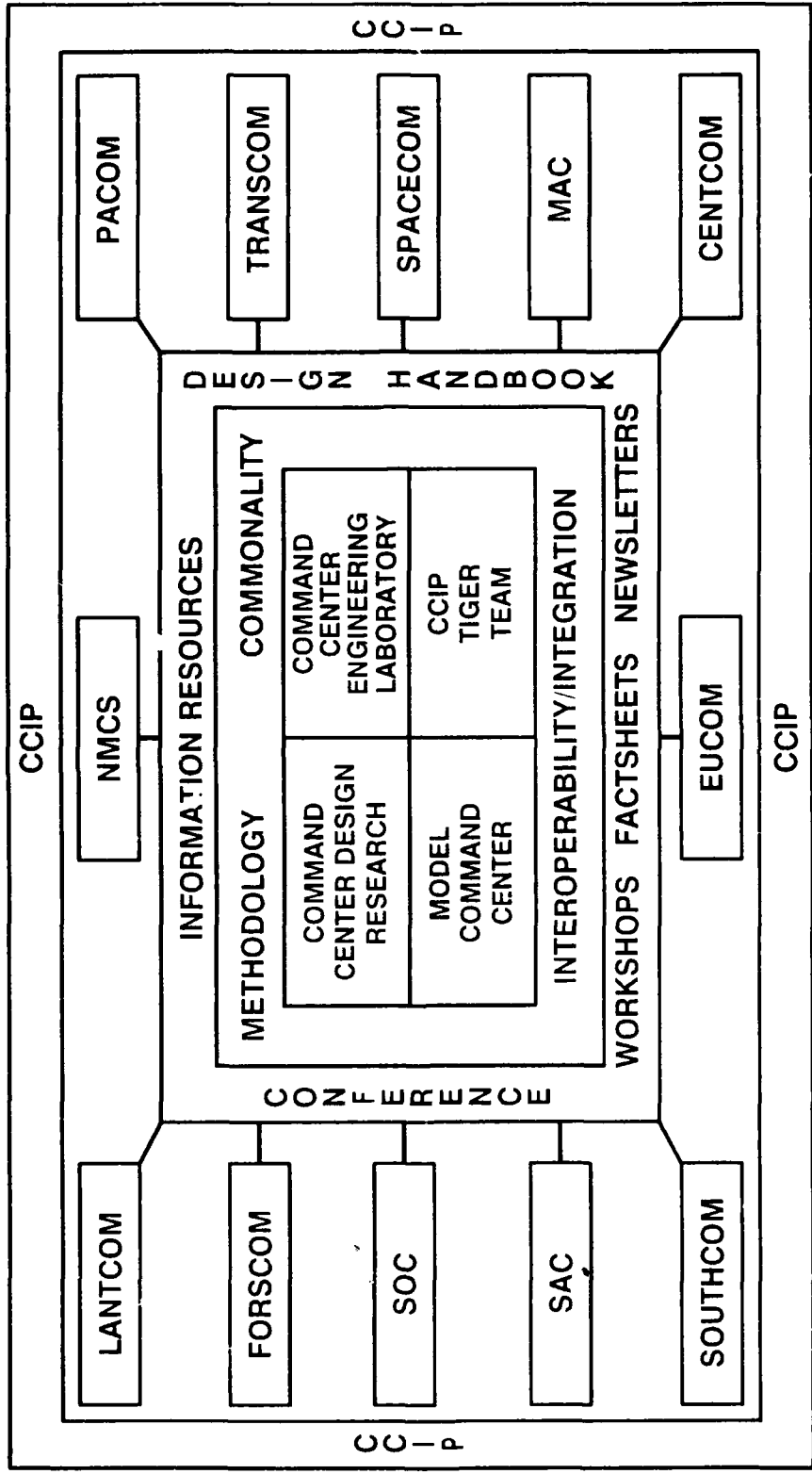
#053-B-CV

# COMMAND CENTER UPGRADES (PRE-CCIP)



#053-B-CV

# CCIP CONSTRUCT



#053-B-CV

AD-A195 551

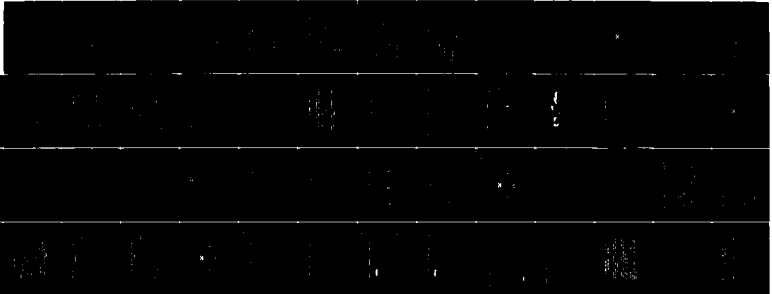
AFCEA (ARMED FORCES COMMUNICATION ELECTRONICS  
ASSOCIATION) SYMPOSIUM (2ND..(U) DEFENSE COMMUNICATIONS  
AGENCY ARLINGTON VA APR 88

5/5

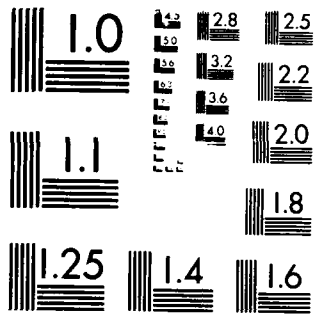
UNCLASSIFIED

F/G 25/5

NL



END  
9 APR 88



# INFORMATION RESOURCES

- **CONCEPT**
  - GATHER AND DISSEMINATE COMMAND CENTER UPGRADE INFORMATION
- **PRODUCTS**
  - ANNUAL CCIP CONFERENCE
  - TECHNICAL WORKSHOPS
  - FACTSHEETS
  - "COMMAND CENTER INSIGHT"
- **ACCOMPLISHMENTS**
  - THREE CONFERENCES
  - ELECTROMAGNETIC PULSE, TEMPEST, VIDEO TELECONFERENCING, VIDEO GRAPHICS WORKSHOPS
  - LARGE SCREEN DISPLAY SYSTEM, VIDEO TELECONFERENCING, VIDEO GRAPHICS, BIOMETRIC SECURITY FACTSHEETS
  - "COMMAND CENTER INSIGHT" - ISSUED AS NEEDED
  - SIGNAL ARTICAL

# COMMAND CENTER DESIGN RESEARCH

- CONCEPT
  - PROVIDE METHODOLOGY FOR UPGRADING COMMAND CENTERS
  - FOSTER STANDARDIZATION AND THE "ILITIES"
- APPROACH
  - COMMAND CENTER UPGRADE PLANNING
  - SYSTEMS ENGINEERING
    - OPERATIONAL ANALYSIS
    - FACILITY DESIGN
    - MISSION SUPPORT ENGINEERING
  - CONFIGURATION MANAGEMENT
  - LOGISTICS
- ACCOMPLISHMENTS
  - COMMAND CENTER DESIGN HANDBOOK
  - LARGE SCREEN DISPLAY GUIDANCE
  - HUMAN ENGINEERED WORKSTATION CONCEPTS

# CCIP TIGER TEAM

- **CONCEPT**
  - PROVIDE ENGINEERING GUIDANCE/ADVICE
  - MAINTAIN MULTIDISCIPLINARY TEAM OF COMMAND CENTER DESIGN EXPERTS
  
- **TEAM COMPOSITION**
  - DCA
  - US ARMY CONSTRUCTION ENGINEERING RESEARCH LAB
  - ARMSTRONG AEROSPACE MEDICAL RESEARCH LAB
  - NATIONAL COMPUTER SECURITY CENTER
  - GENERAL SUPPORT CONTRACTOR
  - USER
  
- **ACCOMPLISHMENTS**
  - VISITS TO EUCOM, SOUTHCOM, CENTCOM, USFK, USSPACECOM, ETC.
  - AVOIDANCE OF DESIGN DEFICIENCIES

# **TECHNOLOGY DEMONSTRATION/ PROTOTYPING**

- **CONCEPT**
  - EXPLOIT NEW TECHNOLOGY
  - APPLY TECHNOLOGY WHERE IT MAKES SENSE
- **APPROACH**
  - EVALUATE SPECIFIC TECHNOLOGIES
  - OBSERVE THE OPERATIONAL CHARACTERISTICS
  - PROTOTYPE PROMISING TECHNOLOGIES
  - TRANSITION TO COMMAND CENTERS
- **ACCOMPLISHMENTS**
  - LARGE SCREEN DISPLAY SYSTEMS
  - HUMAN ENGINEERED WORKSTATION
  - SOUTHCOM DATA DISSEMINATION SYSTEM
  - VIDEO TELECONFERENCING SYSTEMS
  - BIOMETRIC SECURITY DEVICES

## **PAST PROTOTYPING SUCCESSES**

- **LASER PROJECTORS**
- **HUMAN ENGINEERED WORKSTATIONS**
- **USSOUTHCOM DATA DISSEMINATION SYSTEM**
- **FIBER OPTICS TELEPHONE**
- **COMMAND CENTER VIDEO MAPPING SYSTEM**
- **COMMAND CENTER DESIGN HANDBOOK**

## **MOTIVATION**

**“WE ARE NOT SURE WHAT THE REQUIREMENTS ARE  
BUT WE NEED IT BUILT FAST.”**

**“THIS IS NOT IT BUT I WILL KNOW IT WHEN I SEE IT.”**

**“WHAT DO YOU MEAN THE ARCHITECTURE WILL NOT  
SUPPORT THIS NEW TASK?”**

**“THE SYSTEM WAS FIELDDED BUT THE USERS CAN NOT  
OR WILL NOT USE IT.”**

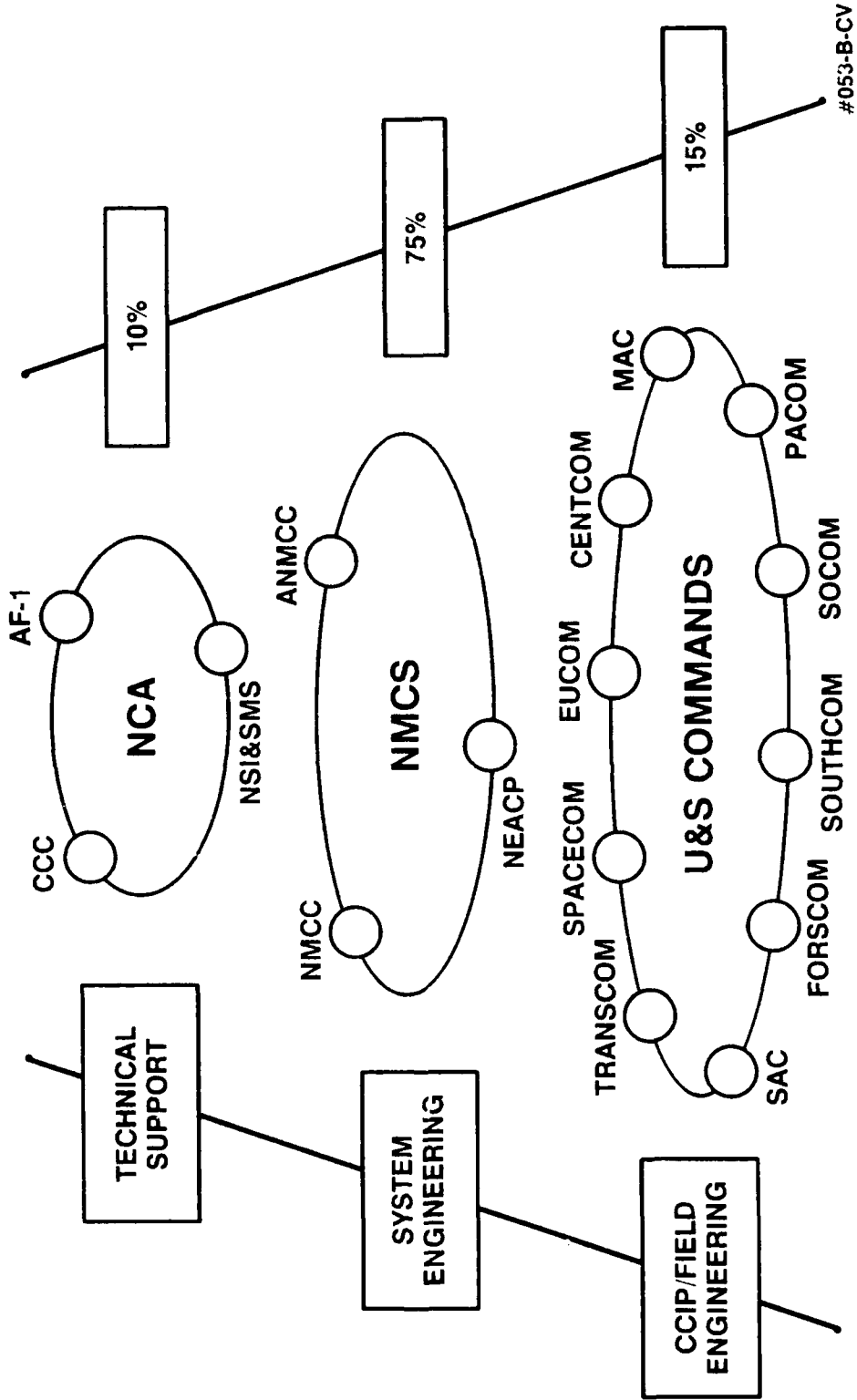
## **CCIP ACTIVITIES/INITIATIVES**

- **TIGER TEAM VISIT TO USEUCOM (JAN 88)**
- **CENTCOM/SOCOM COMMAND CENTER UPGRADES (ON-GOING)**
- **MAC MODEL COMMAND CENTER**
- **DOD MULTI-LEVEL SECURITY PROTOTYPE**
- **CCIP CONFERENCE (MAY 88)**
- **MODULAR BUILDING CONCEPT**
- **GENERIC INFORMATION SYSTEMS MODULES**
- **COMMAND CENTER DESIGN HANDBOOK/EXPERT SYSTEMS CONVERSION**
- **EXTEND BEYOND FIXED COMMAND CENTERS**
- **EXPAND CCEL TO LAB/TEST BED**

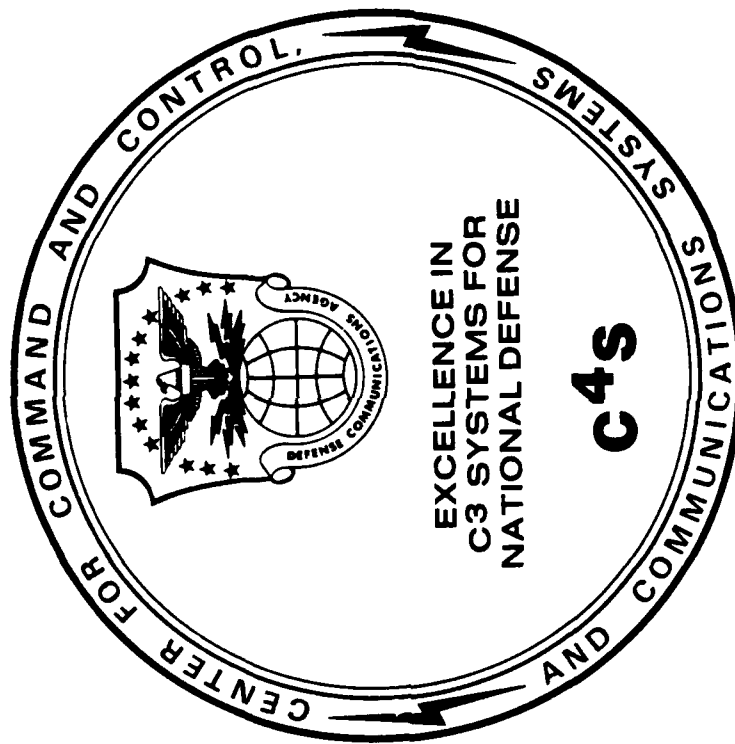
## **CCIP ISSUES**

- **CINC C2 INITIATIVES**
  - **GOOD AND BAD**
- **EVOLUTIONARY ACQUISITION**
  - **NEED C/C ADVOCATE FOR RAPID PROTOTYPING PROCESS**
- **RESOURCES TO WORK ISSUES**
  - **SPATE OF EMERGING ISSUES**
  - **DROUGHT OF R & D DOLLARS**

# COMMAND CENTER SYSTEMS PROGRAM



# METEOR BURST COMMUNICATIONS



#053-E-CV

## **DEVELOPMENTAL ENGINEERING**

- **MISSION**
  - **APPLY EXISTING TECHNOLOGY THAT MAY HAVE HIGH PAYOFF AT AFFORDABLE COST TO SATISFY CURRENT OPERATIONAL NEEDS**
- AND**
- **DEVELOP ENGINEERING PROTOTYPES TO OBTAIN SERVICE AND CINC ACCEPTANCE TO EXPEDITE THE FIELDING OF NEW SYSTEMS THRU EVOLUTIONARY DEVELOPMENT**
  
- **AREAS OF INTEREST**
  - **METEOR BURST COMMUNICATIONS**
  - **RECONSTITUTED VLF/LF**
  - **HARDENED ANTENNA TECHNOLOGY**
  - **ADAPTIVE HF (STRESSCOM) CONNECTIVITY EVALUATION**
  - **MULTI-MEDIA RELAY**

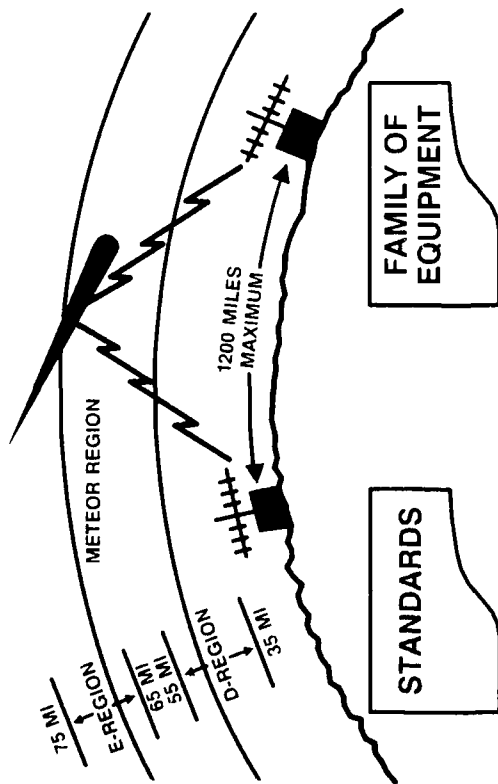
#053-E-CV

# METEOR BURST COMMUNICATIONS (MBC)

## FUNCTIONAL DESCRIPTION OF SYSTEM

### SUPPORTS

- WHO: DoD
- WHAT MISSION: RECONSTITUTION, REMOTE SENSING
- HOW: PROVIDE COST EFFECTIVE METEOR BURST SYSTEMS
- WHY: LOW COST, LOW PROBABILITY OF INTERCEPT, SURVIVABILITY
- PRODUCTS: INTEROPERABILITY STANDARDS FAMILY OF EQUIPMENT



## CONTRACT DATA

N/A: EFFORT CURRENTLY ACCOMPLISHED WITH IN-HOUSE RESOURCES

## MILESTONES

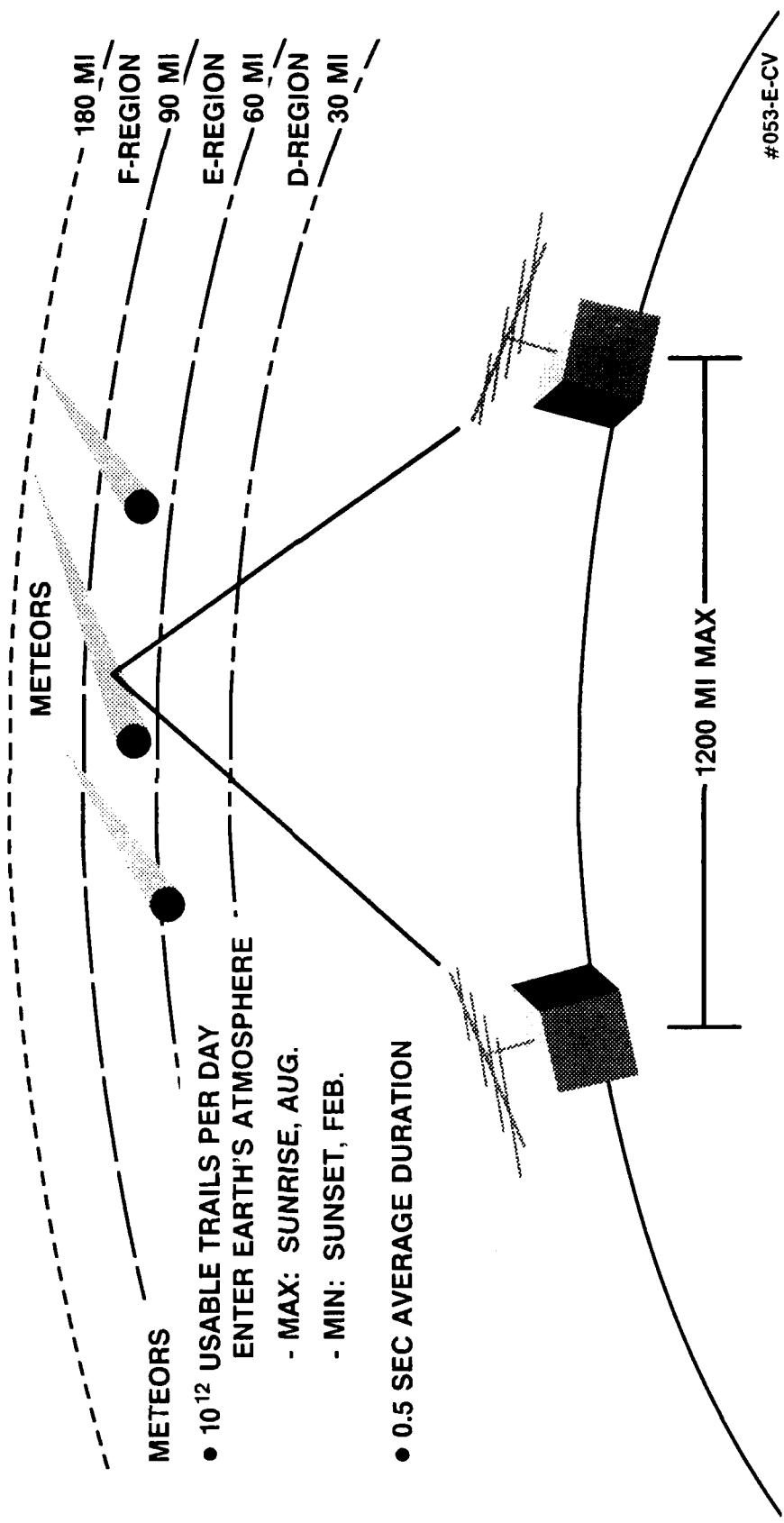
INITIAL CAPABILITY RECOMMENDATIONS ..... AUG 87

FAMILY OF EQUIPMENT ..... JUN 88

ADVANCED CAPABILITY RECOMMENDATIONS ..... SEPT 89

#053-E-CV

# METEOR BURST COMMUNICATIONS (VERY HIGH FREQUENCY)



METEORS

•  $10^{12}$  USABLE TRAILS PER DAY  
ENTER EARTH'S ATMOSPHERE

- MAX: SUNRISE, AUG.

- MIN: SUNSET, FEB.

• 0.5 SEC AVERAGE DURATION

1200 MI MAX

#053-E-CV

# METEOR BURST SYSTEMS

## EARLY SYSTEMS

- CANADIAN ————— JANET
- SHAPE TECHNICAL CENTER ————— COMET
- ALASKAN METEOR BURST COMMUNICATIONS SYSTEM

## CURRENT SYSTEMS

- DEPARTMENT OF AGRICULTURE SNOTEL NETWORK
- ALASKAN AIR COMMAND
- 25TH AIR DIVISION

## **WHY METEOR BURST COMMUNICATIONS?**

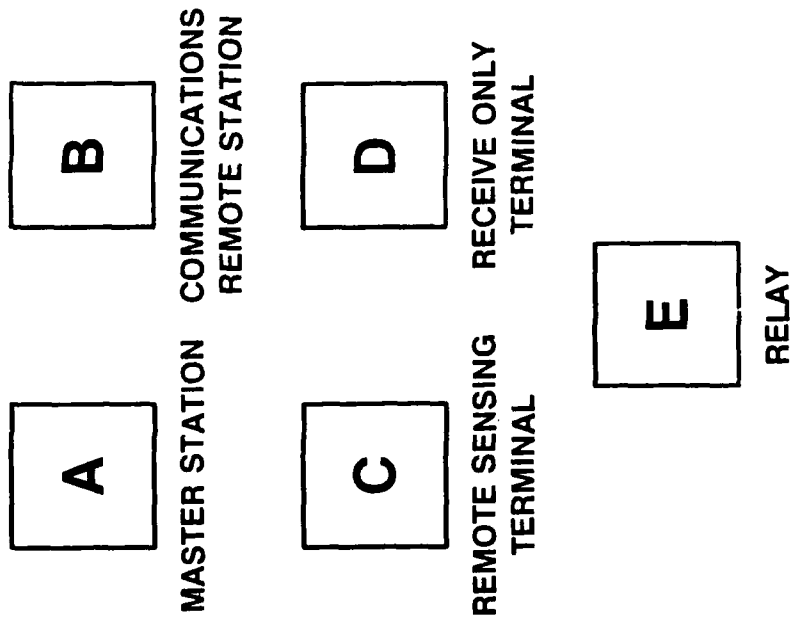
- **IMPROVED RECOVERY TIME IN DISTURBED ENVIRONMENT**
- **IMPROVED LOW PROBABILITY OF INTERCEPTION**
- **NOT DEPENDENT ON VULNERABLE SATELLITES**
- **EXTREMELY PREDICTABLE PROPAGATION**
- **HIGHLY COST-EFFECTIVE FOR LOW-VOLUME TRAFFIC APPLICATIONS OF DISADVANTAGED USERS**
- **BEST CHOICE, LAST-DITCH BACKUP IN MULTIMEDIA SYSTEMS**
- **LOW POWER DRAIN ALLOWS UNATTENDED SOLAR-POWERED REMOTES**
- **FULL PLATFORM APPLICATION - MANPACK TO AIRBORNE**

## **POTENTIAL MISSIONS**

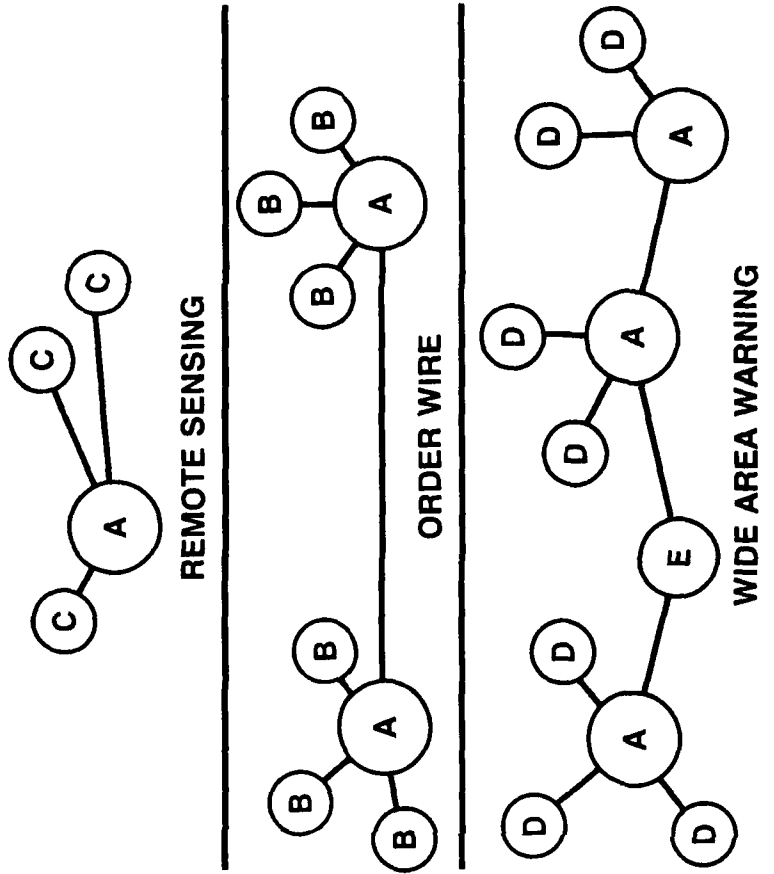
- **FORCE DIRECTION AND REPORTING**
- **RECONSTITUTION**
- **ORDER WIRES**
- **CONTINUITY OF COMMAND COMMUNICATIONS**
- **EMERGENCY ACTION MESSAGE BACKUP**

# METEOR BURST COMMUNICATIONS

## MAJOR SYSTEM COMPONENTS



## TYPICAL NETWORKS

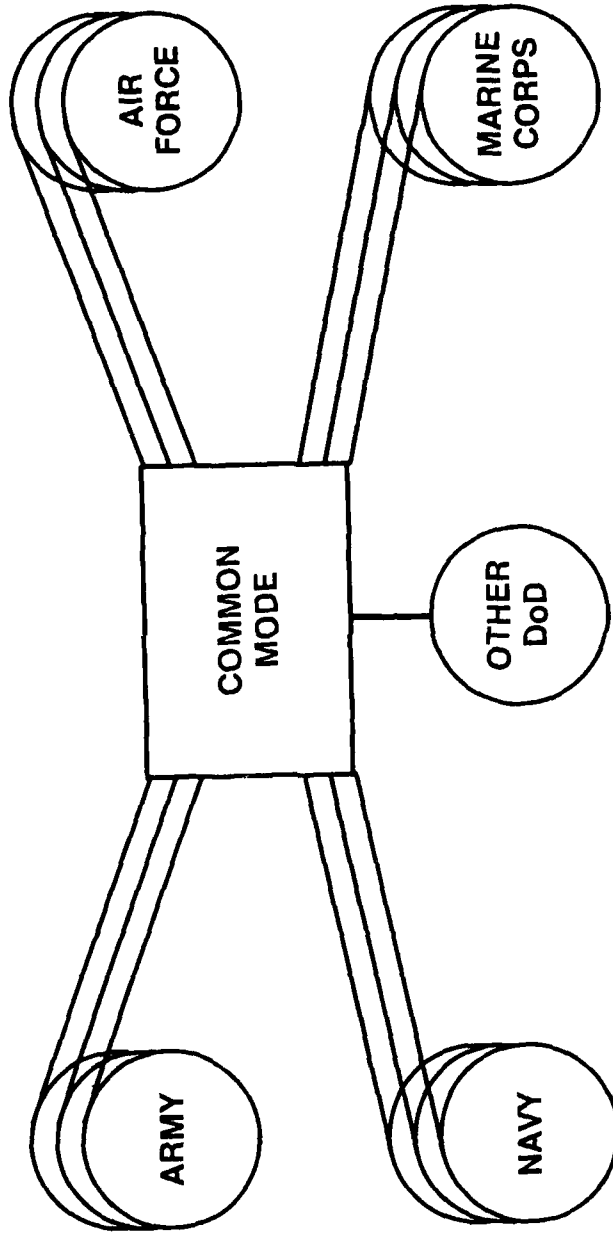


ALL PATHS 300 - 800 MILES

#053-E-CV

# COMMON MODE CAPABILITY

- PROVIDES CONNECTIVITY BETWEEN COMMUNITIES



- ALLOWS EQUIPMENT INTERCHANGE/REPLACEMENT
- PERMITS USE OF DIFFERENT DEVELOPERS

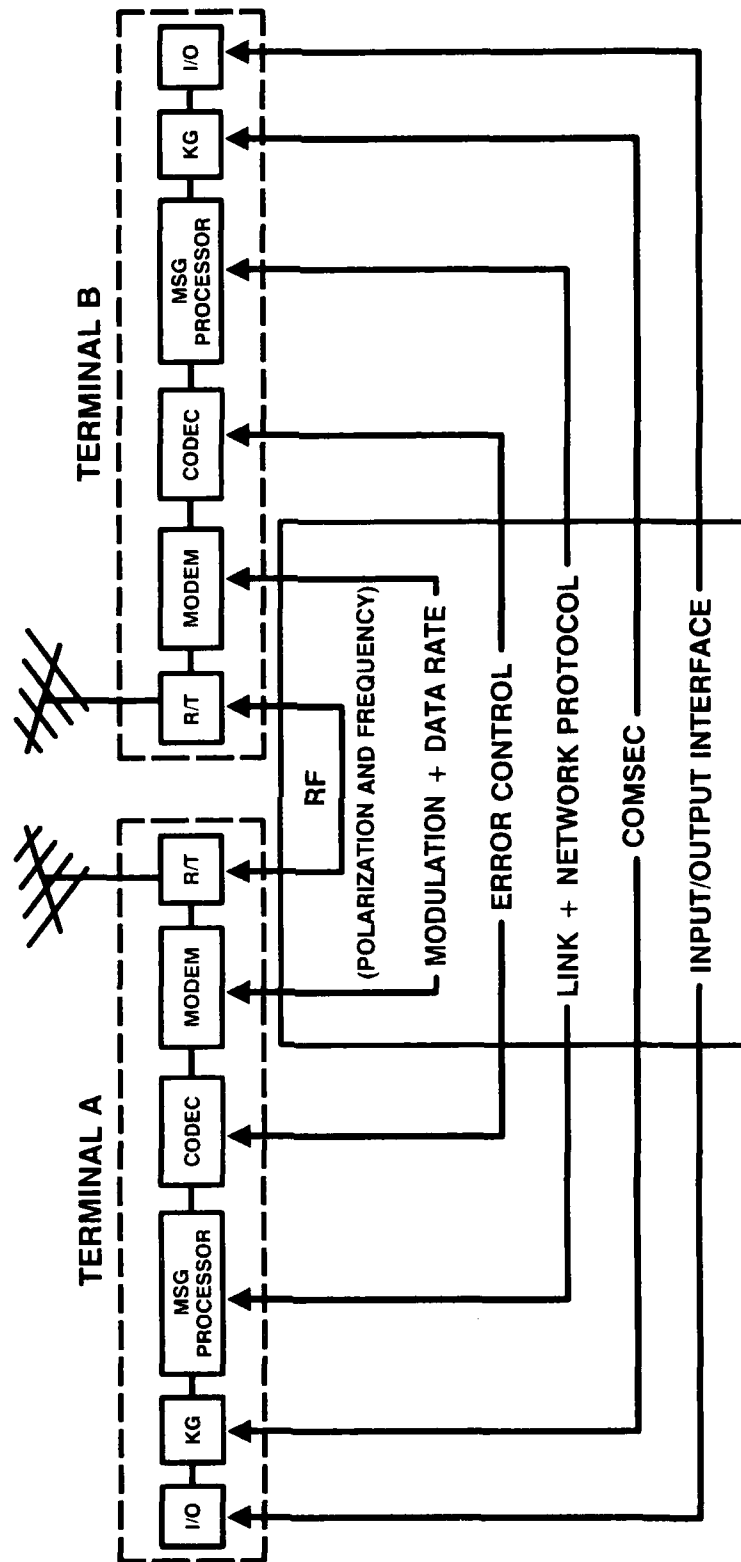
#053-E-CV

## **OJCS DIRECTION**

- **DEVELOP A SET OF INTEROPERABILITY STANDARDS USING A TWO PHASE APPROACH**
  - **INITIAL CAPABILITY**
  - **ADVANCED CAPABILITY**
  
- **IDENTIFY A FAMILY OF EQUIPMENT FEATURING A LOW COST TERMINAL**

# METEOR BURST COMMUNICATIONS INTEROPERABILITY STANDARDS

## INITIAL CAPABILITY



MATING FUNCTIONS REQUIRED FOR INTEROPERABILITY

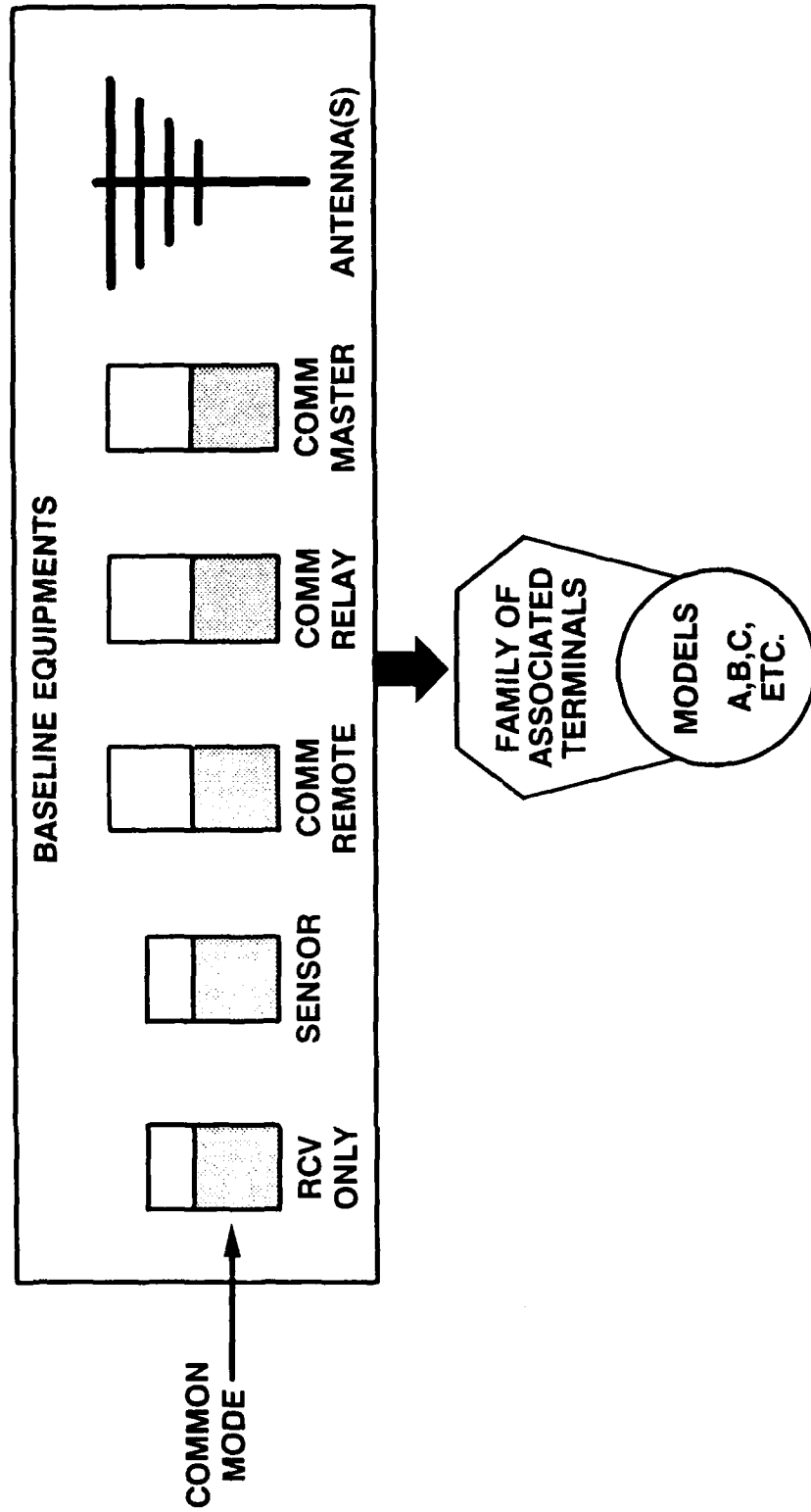
#053-E-CV

# METEOR BURST COMMUNICATIONS STANDARDS INITIAL INTEROPERABILITY STANDARD RECOMMENDATIONS

| FUNCTION                  | COMMUNICATION                                                | REMOTE SENSING                      |
|---------------------------|--------------------------------------------------------------|-------------------------------------|
| POLARIZATION              | HORIZONTAL                                                   | HORIZONTAL                          |
| FREQUENCY                 | 30-54 OR 30-88<br>(5 KHz STEPS)<br>1 PPM, MSTR,<br>2 PPM RMT | 30-54                               |
| MODULATION                | DBPSK                                                        | DBPSK                               |
| BIT RATE                  | 8 KBPS                                                       | 4 KBPS                              |
| ERROR CONTROL             | ARG, GO-BACK-N<br>ANSI CRC (16)                              | ARG, STOP-AND-WAIT<br>ANSI CRC (16) |
| LINK PROTOCOL             | HALF DUPLEX, FULL DUPLEX,<br>BROADCAST                       | POLLING                             |
| NETWORK PROTOCOL          | LINKED STARS, TIME-TO-LIVE,<br>PRIORITY                      | SINGLE STAR                         |
| COMSEC                    | KG 84 NEAR TERM                                              | N/A                                 |
| INPUT/OUTPUT<br>INTERFACE | RS 232 SERIAL<br>300 BAUD, ASCII                             | SENSOR ANALOG/DIGITAL<br>INTERFACE  |

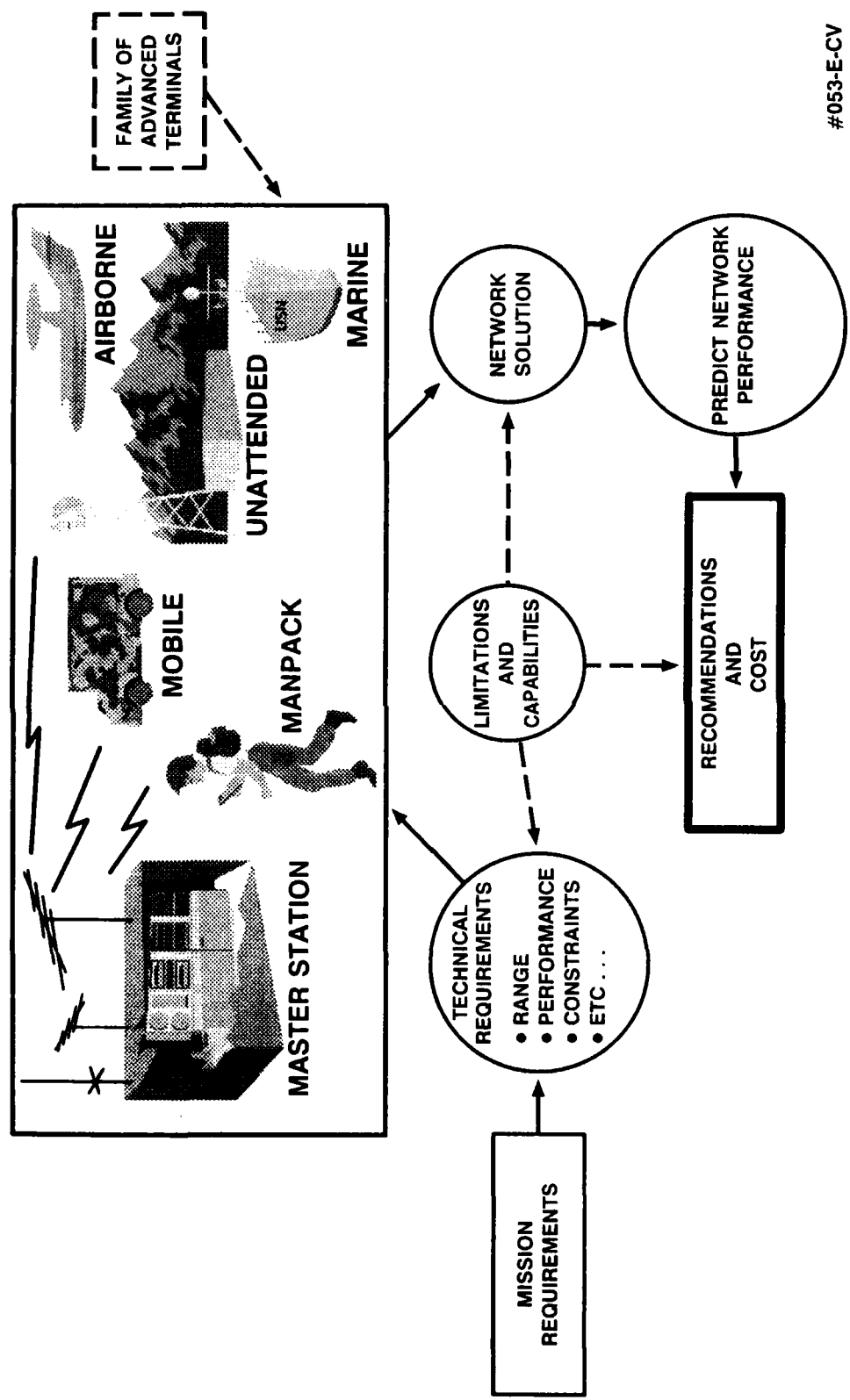
#053-E-CV

# METEOR BURST COMMUNICATIONS MISSION ORIENTED FAMILY OF EQUIPMENT



#053-E-CV

# USING THE MISSION ORIENTED FAMILY OF EQUIPMENT



#053-E-CV

# METEOR BURST COMMUNICATIONS CHALLENGE TO INDUSTRY

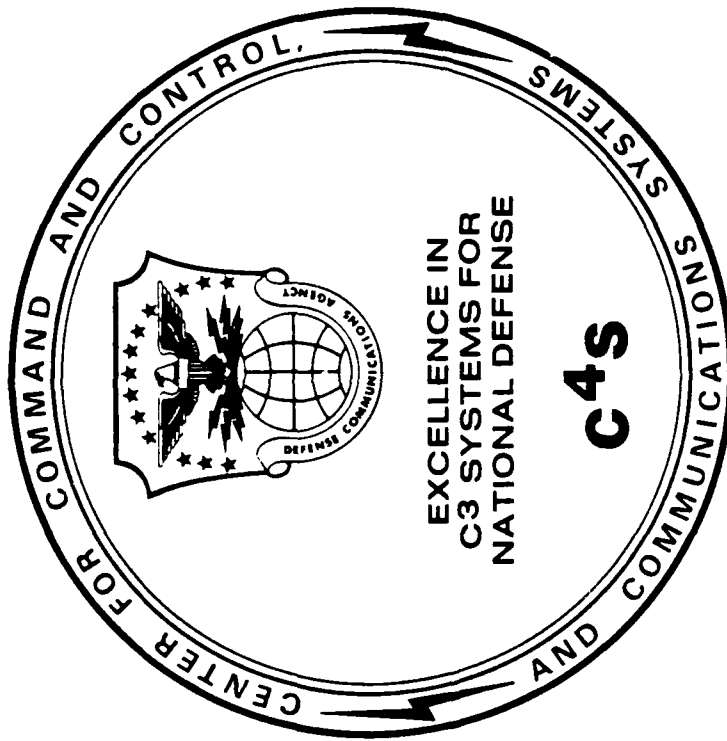
- PROVIDE INPUT TO STANDARDS DEVELOPMENT
- PROVIDE ADDITIONAL BREAKPOINTS FOR LOW COST TERMINALS
- BE A SOURCE FOR AFFORDABLE EMERGING TECHNOLOGIES
- HELP AVOID "GOLD PLATING"
- PROVIDE SOLUTIONS FOR ENHANCING CONNECTIVITY IN STRESSED ENVIRONMENTS
  - MODULATION
  - DATA RATES
  - FORWARD ERROR CORRECTION
  - NETWORKING
  - EMBEDDED COMSEC

# **PROGRAM SUMMARY**

**BY END OF 1988:**

- **SERVICES APPROVED INITIAL CAPABILITY STANDARD**
- **DEFINITION OF A MISSION ORIENTED FAMILY OF EQUIPMENT**
- **CONTINUING EFFORTS TO DEFINE AN ADVANCED CAPABILITY STANDARD**

# MILITARY SATELLITE COMMUNICATIONS SYSTEMS

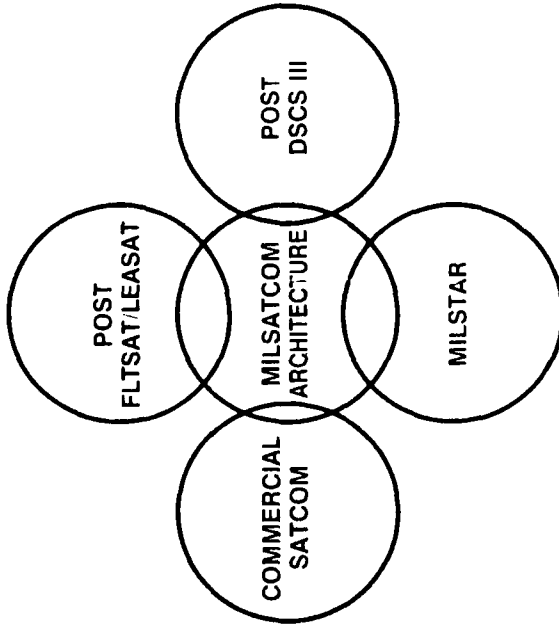


#053-F-CV

# FUNCTIONAL DESCRIPTION OF SYSTEM

## SUPPORTS -

- WHO: ALL DoD
- WHAT MSN: C3I FOR QUALIFYING DoD
- HOW: PLANNING FOR FUTURE MILSATCOM SYSTEMS
- WHY: TO SATISFY EVOLVING NEEDS
- PRODUCTS: ARCHITECTURES, TECHNICAL ANALYSES  
TRADEOFF STUDIES, REQUIREMENTS  
VALIDATIONS, THREAT SCENARIO  
TECHNOLOGY ASSESSMENTS
- DELIVERABLES: STUDIES, COMPUTER MODELS, COST  
ANALYSIS, FREQUENCY ANALYSIS



## CONTRACT DATA

CONTRACTING AGENCY: DCA  
USER COMMAND/AGENCY: DoD  
POINT OF CONTACT: DR. DRUMMOND  
KEY LOCATIONS: WORLDWIDE

CONTRACT PERIOD(S): DOLLAR VALUE  
DEC 87 - DEC 88 \$2.0M

CONTRACTOR: M-A/COM GOVT SYSTEMS

## KEY MILESTONES

- ARCHITECTURE UPDATES - ANNUALLY
- TECHNOLOGY PROJECTION - SEP 1988
- SHF MODEM ALTERNATIVES - DEC 1988
- DSCS BLOCK C - JAN 1989
- LONG RANGE ARCH - SEP 1989
- EHF PACKAGE DESIGN - SEP 1989

#053-F-CV

## **MISO MISSION AND FUNCTIONS**

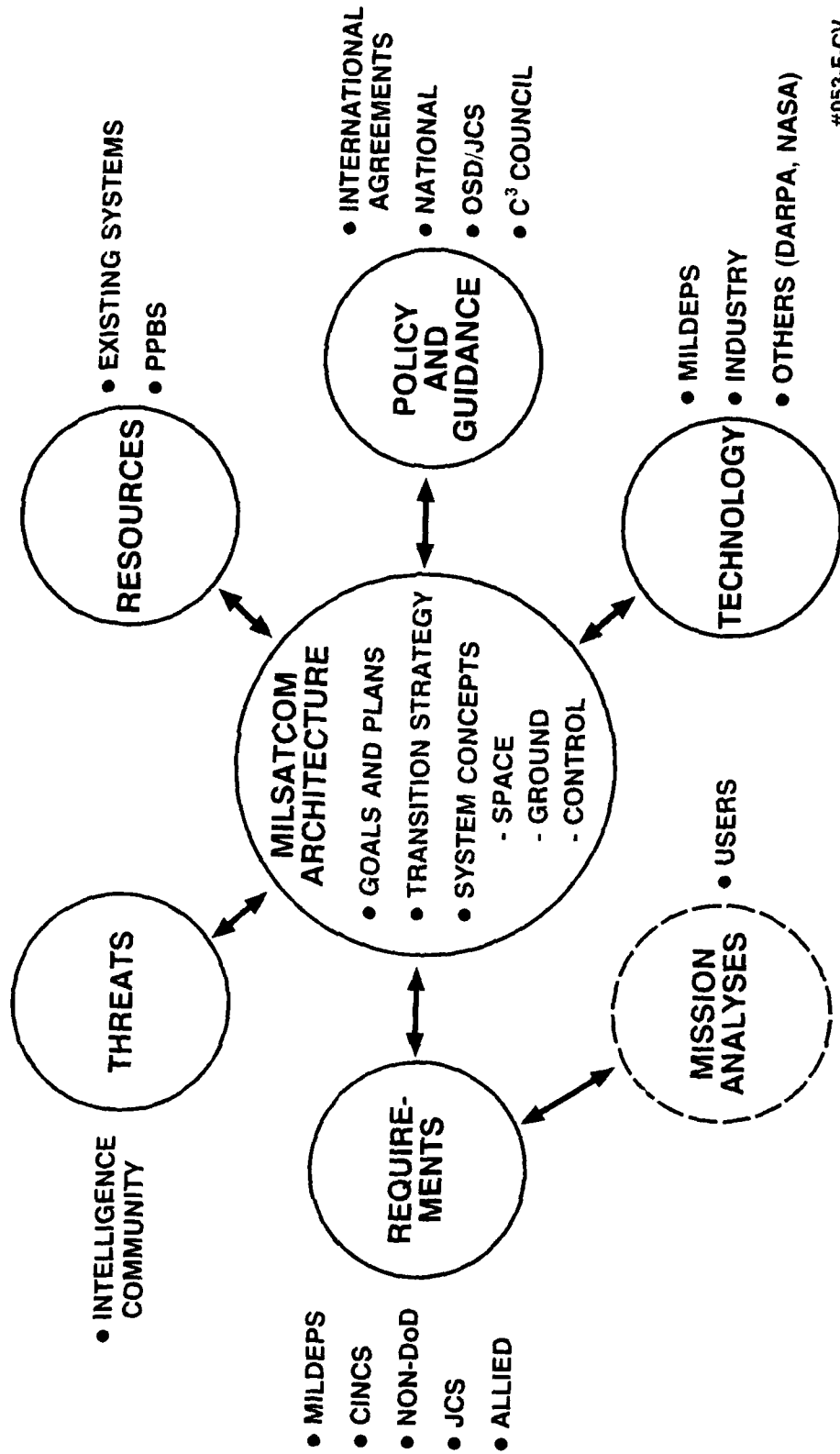
### **MISSION:**

- ESTABLISH THE DoD-WIDE MILSATCOM ARCHITECTURE
- SERVE AS PRINCIPAL ADVISOR TO DIRECTOR DCA, ASD (C<sup>3</sup>I), AND JCS (J6) ON DoD SATELLITE COMMUNICATIONS

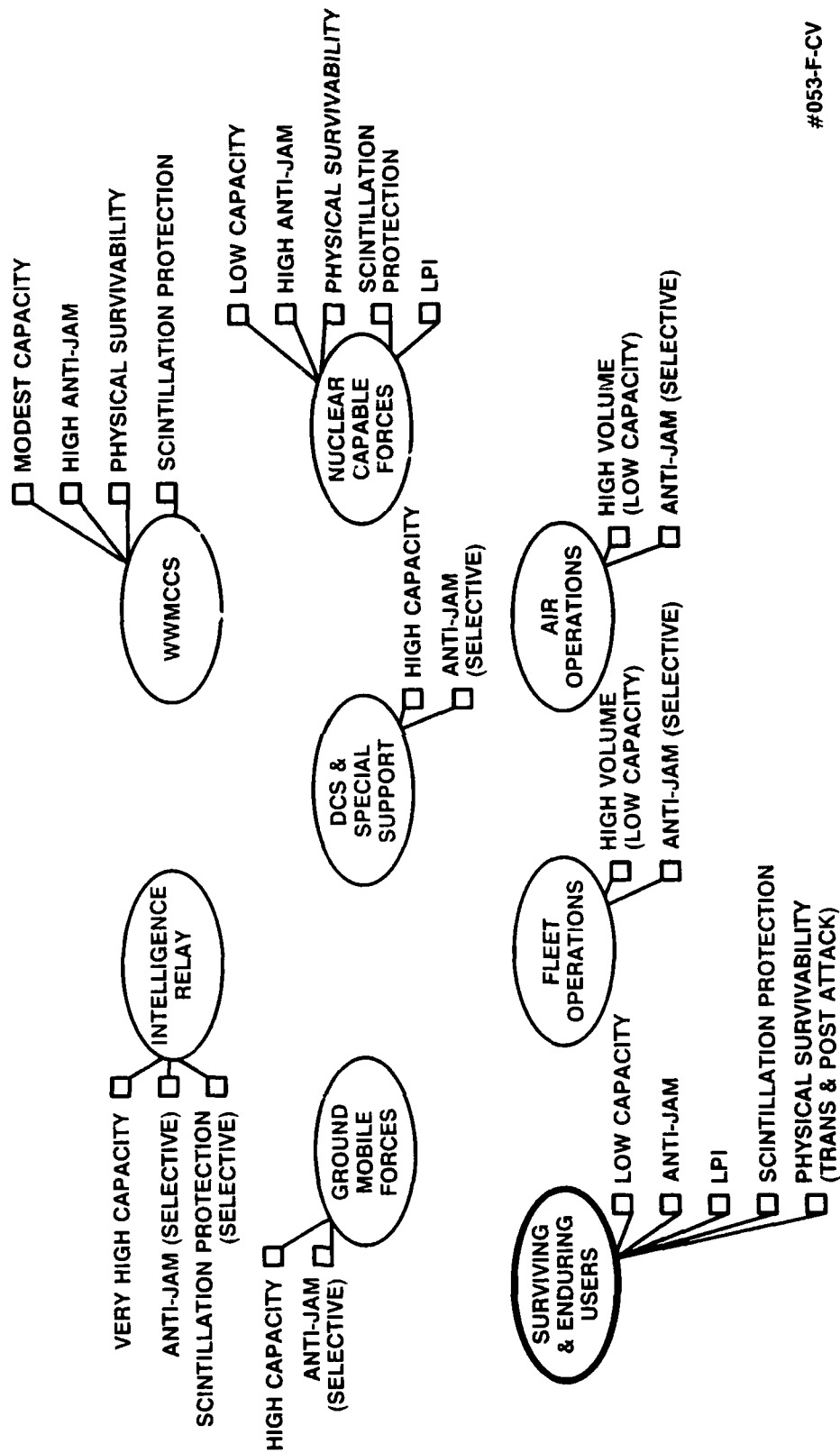
### **FUNCTIONS:**

- PERFORM USER MISSION AND REQUIREMENTS ANALYSES
- ANALYZE THREAT PROJECTIONS
- DEVELOP SYSTEM TRANSITION PLANS
- RECOMMEND FUNDING AND POLICY GUIDELINES
- PROVIDE TECHNOLOGY ASSESSMENTS

# MILSATCOM ARCHITECTURE DEVELOPMENT PROCESS

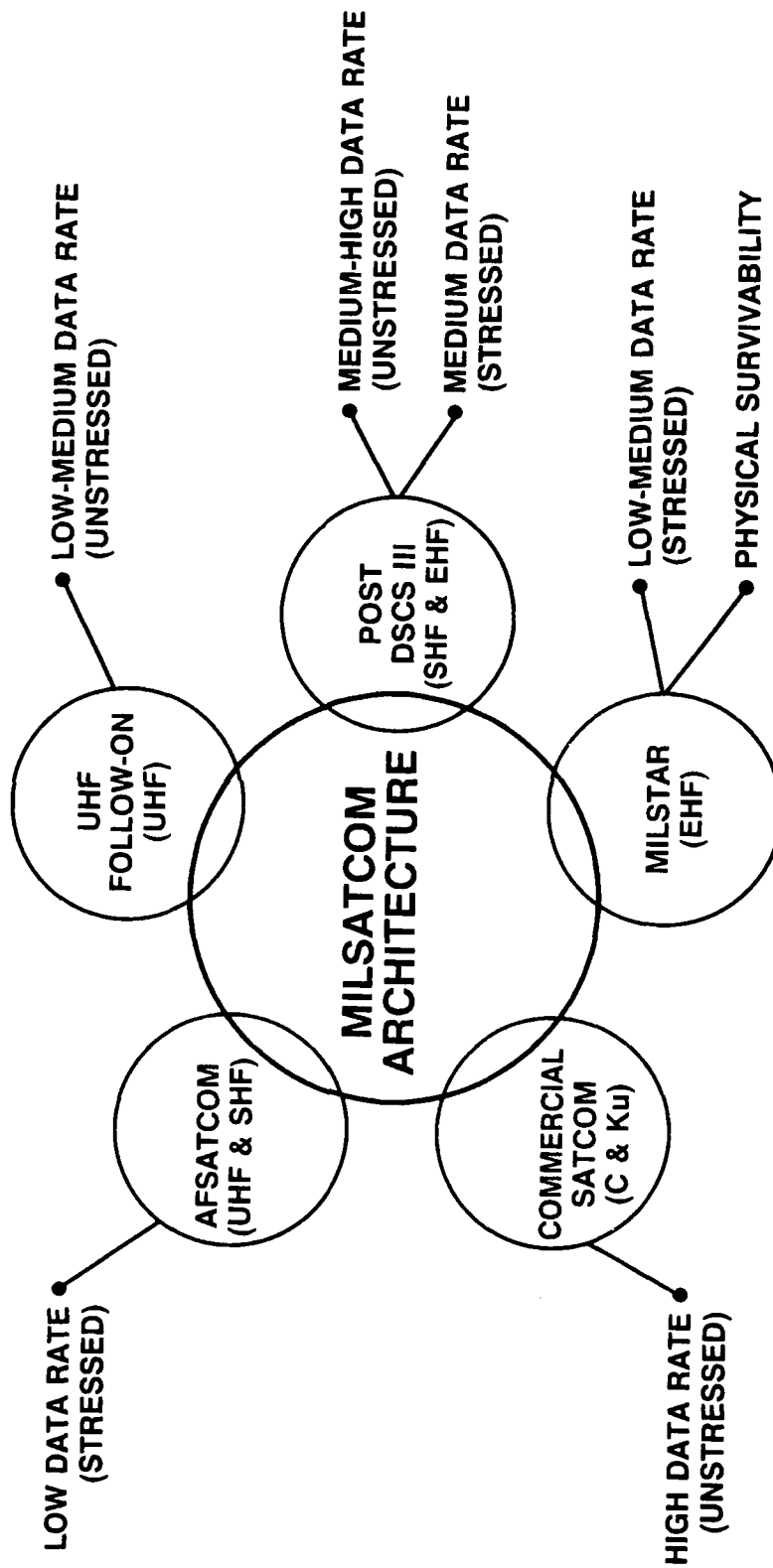


# MILSATCOM USER COMMUNITY AND REQUIREMENTS



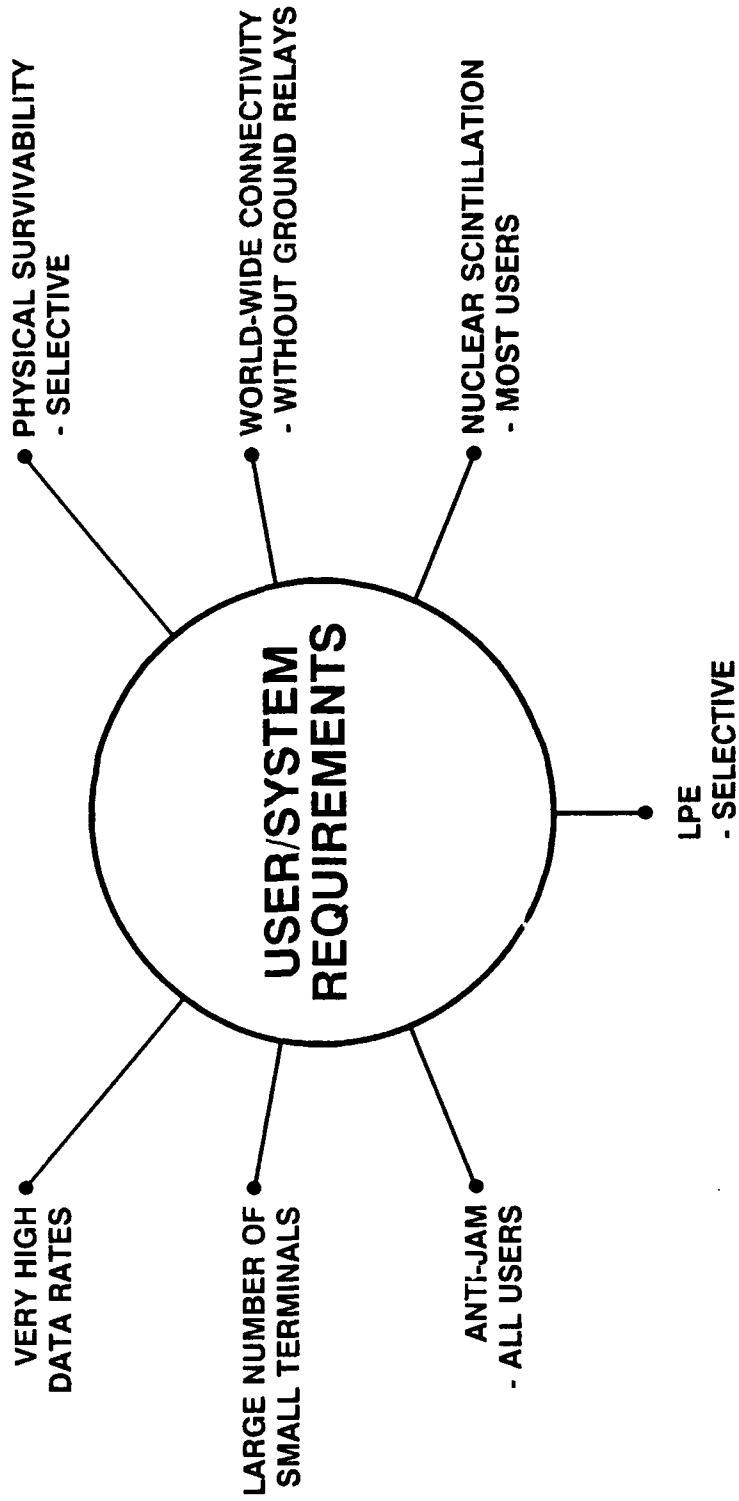
#053-F-CV

# A COHERENT MILSATCOM ARCHITECTURE FOR THE 1990'S

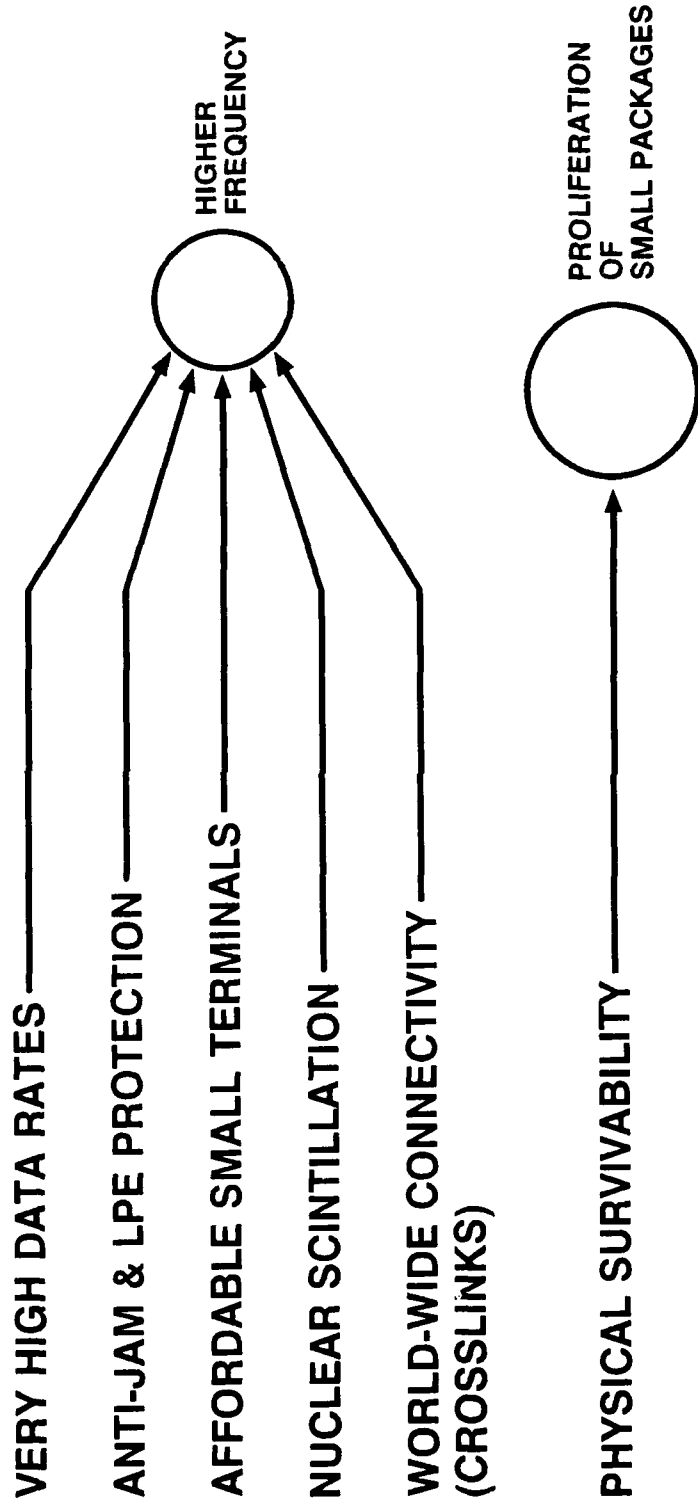


#053-F-CV

# FUTURE REQUIREMENT TRENDS

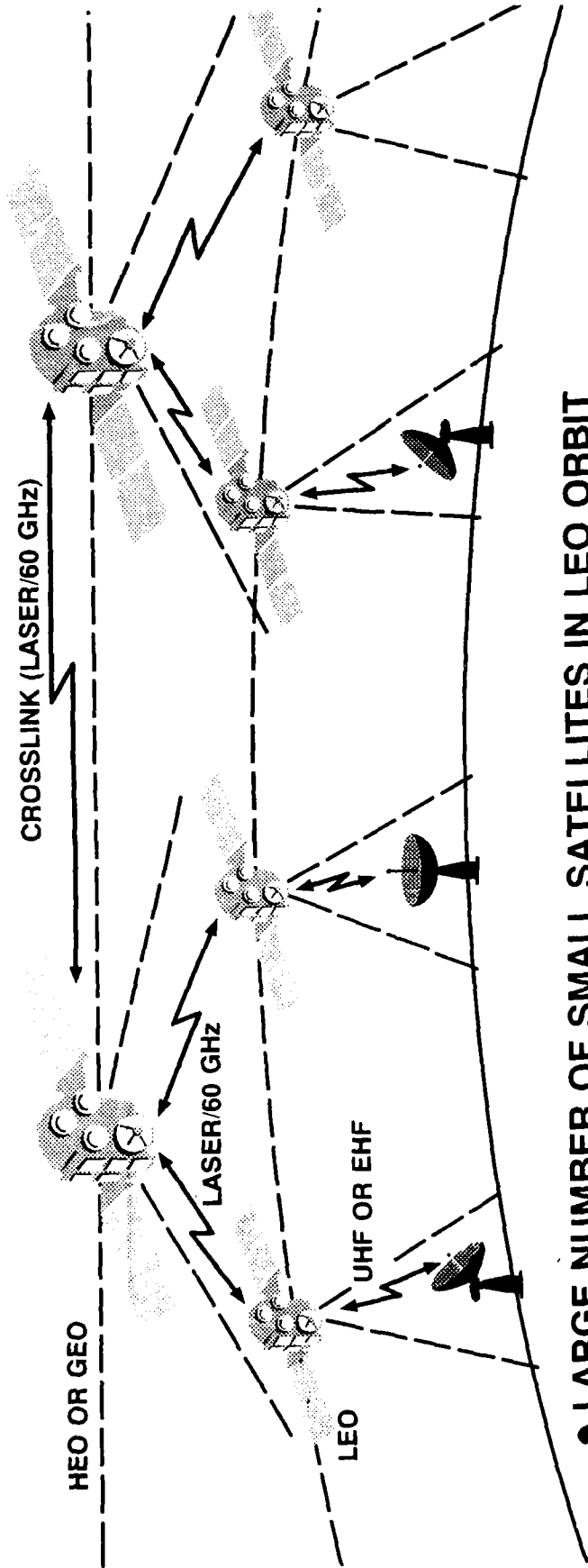


# TECHNOLOGY CHALLENGE



#053-F-CV

# A CANDIDATE 2010 MILSATCOM SYSTEM



- LARGE NUMBER OF SMALL SATELLITES IN LEO ORBIT
- SMALL NUMBER OF LARGE SATELLITES IN GEO/HEO ORBIT
- CROSSLINKS (60GHZ/LASER) BETWEEN LEO AND GEO/HEO SATELLITES
- USER TERMINALS ARE SMALL (UHF OR EHF)
- HIGH ANTI-JAM AND PHYSICAL SURVIVABILITY

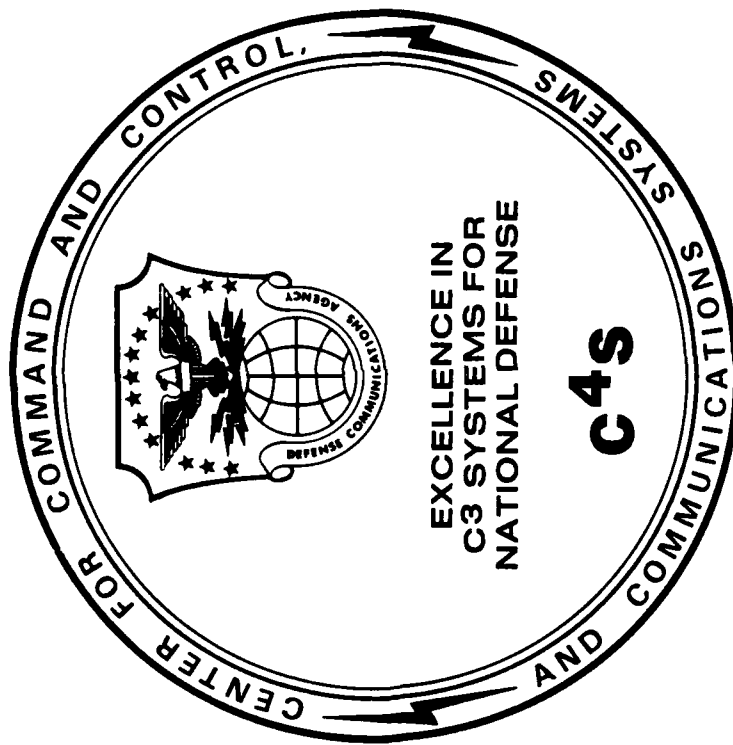
#053-F-CV

## **SUMMARY**

- **CONTINUING NEED FOR MILSATCOM SYSTEMS  
IN THE FUTURE (BEYOND 2000)**
  - GROWTH IN USER REQUIREMENT
  - THREAT INCREASE
  
- **IMPLEMENTATION OF ADVANCED MILSATCOM CONCEPTS  
WILL REQUIRE DEVELOPMENT AND USE OF NEW  
TECHNOLOGIES**
  - SPACECRAFT
  - TERMINALS

#053-F-CV

# 21ST CENTURY DCS ARCHITECTURE



#058-C-CV

# 21ST CENTURY DCS ARCHITECTURE

## FUNCTIONAL DESCRIPTION OF SYSTEM

THE 21ST CENTURY DCS ARCHITECTURE DESCRIBES THE 1995-2005 DCS AND THE SERVICES PROVIDED.

|                 |                   |
|-----------------|-------------------|
| <u>SERVICES</u> | <u>SUBSYSTEMS</u> |
| VOICE           | SWITCHING         |
| DATA            | TRANSMISSION      |
| VIDEO           | TERMINALS         |
| MESSAGE         | CONTROL           |

### SUPPORTS -

- WHO: DOD COMMON USER COMMUNITY
- WHAT MSN: COMMUNICATIONS
- HOW: TRANSMISSION & SWITCHING
- WHY: ECONOMY, SURVIVABILITY, SECURITY
- PRODUCTS: 1995 DCS ARCHITECTURE, 2005 GOAL DCS ARCHITECTURE, DCS TRANSITION STRATEGY
- DELIVERABLES: TECHNICAL REPORTS

## CONTRACT DATA

CONTRACTING AGENCY: DCA, WASH, D.C.  
 DCA POINT OF CONTACT: DR. SCHER, C4S/A700  
 KEY LOCATIONS: ARLINGTON, VA  
 CONTRACTOR: BOOZE-ALLEN HAMILTON

|                   |                     |
|-------------------|---------------------|
| CONTRACT PERIODS: | <u>DOLLAR VALUE</u> |
| DEC 87 - DEC 88   | \$1 M               |
| DEC 88 - DEC 89   | \$1 M               |
| DEC 89 - DEC 90   | \$1 M               |

## KEY MILESTONES:

CONTRACT AWARD - DEC 1987  
 1995 DCS ARCHITECTURE REPORT - DEC 1988  
 2005 DCS ARCHITECTURE REPORT - DEC 1989  
 DCS TRANSITION STRATEGY - DEC 1990

#058-C-CV

# THE DCS ARCHITECTURAL SPACE

|                                   |                                                           | TYPES OF SERVICE |      |         |          |                  |
|-----------------------------------|-----------------------------------------------------------|------------------|------|---------|----------|------------------|
|                                   |                                                           | VOICE            | DATA | MESSAGE | WIDEBAND | VIDEO CONFERENCE |
| C O N U S                         | SURVIVABILITY<br>CAPACITY<br>SECURITY<br>COST<br>FEATURES |                  |      |         |          |                  |
| E U R O P E                       | SURVIVABILITY<br>CAPACITY<br>SECURITY<br>COST<br>FEATURES |                  |      |         |          |                  |
| K O R E A                         | SURVIVABILITY<br>CAPACITY<br>SECURITY<br>COST<br>FEATURES |                  |      |         |          |                  |
| S W A                             | SURVIVABILITY<br>CAPACITY<br>SECURITY<br>COST<br>FEATURES |                  |      |         |          |                  |
| T O C<br>R A E<br>N N S           | SURVIVABILITY<br>CAPACITY<br>SECURITY<br>COST             |                  |      |         |          |                  |
| R E G I O N S O F T H E W O R L D |                                                           |                  |      |         |          |                  |

#058-C-CV

# **NEAR-TERM ARCHITECTURAL URGENCIES**

**(OUR ARCHITECTURAL PROGRAM IS LATE!!)**

## **SYSTEM DRIVEN**

- **DEFENSE DATA NETWORK CAPACITY EXPANSION**
- **CONUS MILNET NUCLEAR SURVIVABILITY**
- **FORMAL MESSAGE SYSTEM**
- **NATO TRANSMISSION RATIONALIZATION**

## **OPERATIONALLY DRIVEN**

- **SURVIVABILITY (EUROPE, KOREA, TRANSOCEANIC)**
- **ECONOMIES (DEFENSE DATA NETWORK PORT CHARGES)**

# **MID-TERM ARCHITECTURAL ISSUES**

**(WE SHOULD START NOW!!)**

## **SYSTEM DRIVEN**

- **DEFENSE SWITCHED NETWORK WESTHEM FUNCTIONAL SPECIFICATION**
- **SECURE VOICE TERMINAL EVOLUTION**
- **WIDEBAND SOLUTIONS**
- **MILSATCOM UTILIZATION**

## **OPERATIONALLY DRIVEN**

- **SOUTHWEST ASIA SURVIVABILITY**
- **ECONOMIES (DEDICATED CIRCUITS, O&M COSTS)**

## **SOME MAJOR UNCERTAINTIES**

- **RATE OF PENETRATION OF MARKETPLACE BY THE INTEGRATED SERVICES DIGITAL NETWORK**
- **DISCONTENT WITH, AND PROCUREMENT RATE OF, STU-III SECURE VOICE TERMINALS**
- **RATE OF WIDEBAND INTELLIGENCE EXPLOSION**
- **RATE OF AVAILABILITY OF MULTI-LEVEL SECURITY**

## **FINAL MESSAGE**

- **COMMERCIAL LONG-HAUL CARRIERS AND INTEGRATING CONTRACTORS**
  - INFORM US OF YOUR FUTURE PLANS
  - LEARN ABOUT DCS NEEDS
- **HARDWARE DEVELOPERS**
  - ADVISE US OF YOUR PRODUCTS
  - SEARCH FOR A MARKET NICHE
- **STUDY AND ANALYSIS CONTRACTORS**
  - POSTURE YOURSELVES FOR OUR 1990 RECOMPETITION
  - ADVISE US OF YOUR CAPABILITIES BEFORE THE ACQUISITION PROCESS COMMENCES

# MAJOR CONTRACTUAL EFFORTS (CURRENT)

| <u>CONTRACT NUMBER</u> | <u>DESCRIPTION</u>                      | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERIOD OF PERFORMANCE</u> |
|------------------------|-----------------------------------------|------------------|--------------|------------------------------|
| DCA                    | DEFENSE-WIDE SYSTEMS<br>SETA (1ST YEAR) | BAH              | \$1.2M       | DEC 87 - DEC 88              |
|                        | TASKS:                                  |                  |              |                              |
|                        | - 1995 DCS ARCHITECTURE                 |                  |              |                              |
|                        | - CONUS DDN SURVIVABILITY               |                  |              |                              |
|                        | - MESSAGE HANDLING SERVICES             |                  |              |                              |
|                        | DEFENSE-WIDE SYSTEMS<br>SETA (2ND YEAR) | BAH              | \$1.0M       | DEC 88 - DEC 89              |
|                        | DEFENSE-WIDE SYSTEMS<br>SETA (3RD YEAR) | BAH              | \$1.2M       | DEC 89 - DEC 90              |

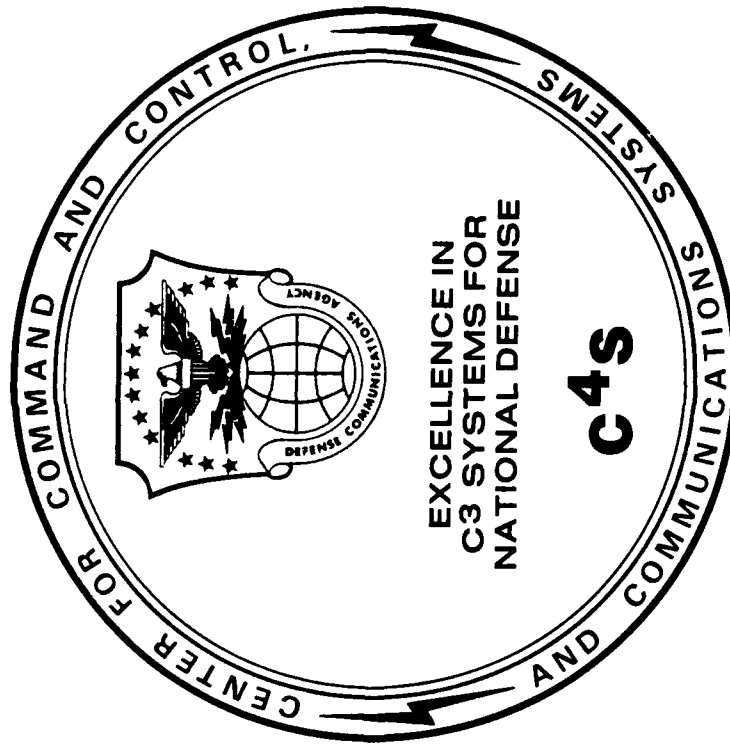
# MAJOR CONTRACTUAL EFFORTS (FUTURE)

| <u>DESCRIPTION</u>              | <u>VALUE RANGE</u> | <u>ANTICIPATED<br/>ANNOUNCEMENT<br/>DATE</u> | <u>PERIOD OF<br/>PERFORMANCE</u> |
|---------------------------------|--------------------|----------------------------------------------|----------------------------------|
| DEFENSE-WIDE SYSTEMS<br>SUPPORT | \$3 - \$4M         | FALL, 1989                                   | DEC 90 - DEC 93                  |

**TASKS:**

- WIDEBAND COMMUNICATIONS ARCHITECTURE
- WORLD-WIDE SECURE COMMUNICATIONS ARCHITECTURE
- DCS ARCHITECTURE AND TRANSITION REFINEMENT

# US TRANSCOM C3 ARCHITECTURE



#058-C-CV

# USTRANSCOM C3 ARCHITECTURE

THE USTRANSCOM C3I ARCHITECTURE PLANS  
THE FUTURE C3I SYSTEM FOR DEFENSE  
TRANSPORTATION

## USTRANSCOM

|                                |                                                    |                                |
|--------------------------------|----------------------------------------------------|--------------------------------|
| MILITARY<br>SEALIFT<br>COMMAND | MILITARY<br>TRANSPORTATION<br>MANAGEMENT<br>CENTER | MILITARY<br>SEALIFT<br>COMMAND |
|--------------------------------|----------------------------------------------------|--------------------------------|

ESTABLISHED 15 APRIL 1987  
CONSOLIDATED AIR, LAND, AND SEA  
TRANSPORTATION UNDER ONE DOD MANAGER

## SUPPORTS -

- WHO: USTRANSCOM/J6
- WHAT MSN: DOD MOBILIZATION/  
TRANSPORTATION
- HOW: AIR, LAND, AND SEA
- WHY: IMPROVE THE MOBILITY C3 SYSTEM
- PRODUCTS: C3 ARCHITECTURE, C3 EVALUATION
- DELIVERABLES: TECHNICAL REPORTS

## KEY MILESTONES (RFI, RFP, ETC.)

RFP RELEASE APR 88

CONTRACT AWARD OCT 88

## CONTRACT DATA

CONTRACTING AGENCY: DCA, WASH, DC  
POINT OF CONTACT: DR. SCHER, C4S/A700  
KEY LOCATIONS: SCOTT AFB, IL AND  
ARLINGTON, VA

FUNDING PROBABILITY: 50%

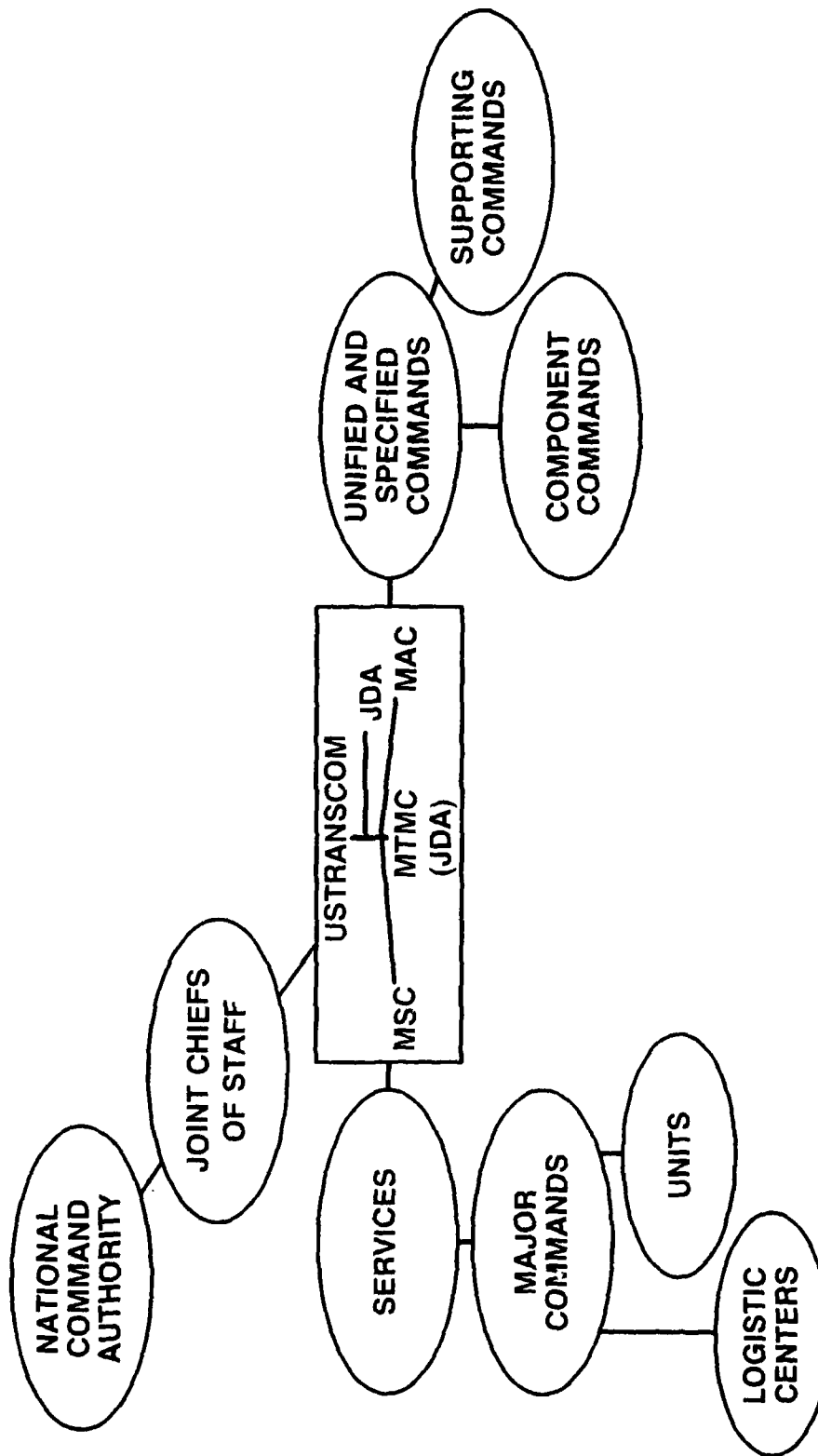
CONTRACT PERIOD(S):                      DOLLAR VALUE                     

OCT 88 - SEP 91                      \$6.0M

OCT 91 - SEP 93                     

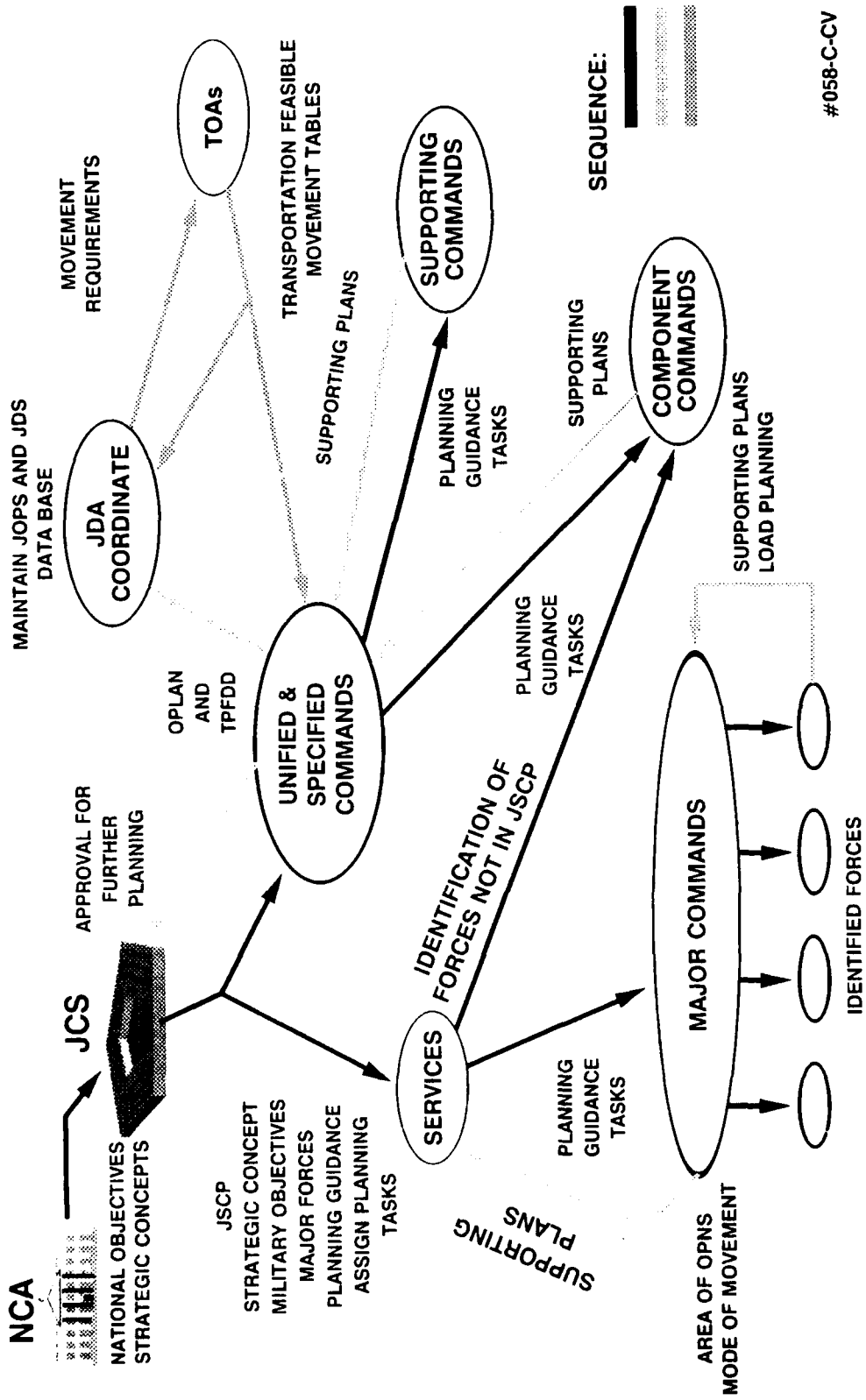
#058-C-CV

# USTRANSCOM AND THE WORLD AROUND IT



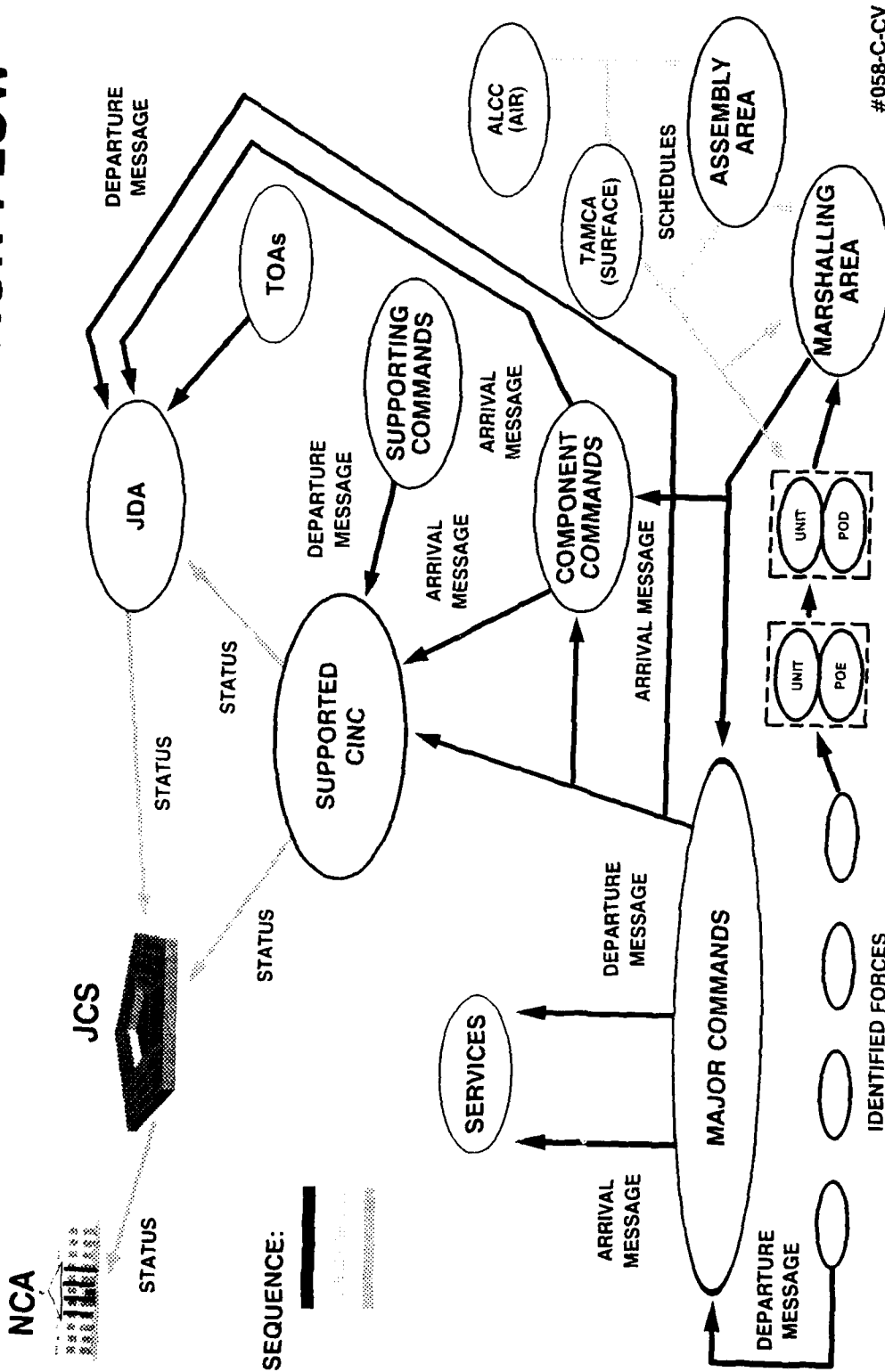
#058-C-CV

# DELIBERATE PLANNING INFORMATION FLOW



#058-C-CV

# EXECUTION MONITORING INFORMATION FLOW



#058-C-CV



# PLANNED SOFTWARE SYSTEMS SUPPORTING MOBILITY C3

| FUNCTION<br>TASK                                                             | ESTABLISH REQUIREMENT                        |                                                                                                                |                                                                                                       |                                                                                       | UNIT MATERIEL<br>STATUS           | LIFT MANAGEMENT                   |                                   |                                   |                                   | OPERATIONAL<br>FOLLOWING          |                                                                                                                                                                      |
|------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                              | UNIT PERSONNEL                               | MATERIEL                                                                                                       | LIFT                                                                                                  | INTRA CONUS                                                                           |                                   | CONUS TO THEATER                  |                                   | INTRA THEATER                     |                                   |                                   |                                                                                                                                                                      |
|                                                                              |                                              |                                                                                                                |                                                                                                       | AIR                                                                                   |                                   | SURFACE                           | AIR                               | SURFACE                           | AIR                               |                                   | SURFACE                                                                                                                                                              |
| DEPLOYMENT<br>- PLANNING                                                     | JOPE<br>RDPC<br>MODES<br>COMPAS AUEL<br>SEMS | JOPE<br>RDPC<br>MODES                                                                                          | JOPE<br>MOBSCOPE<br>AUEL<br>SEMS<br>MAPS                                                              | JOPE<br>RDPC<br>MODES<br>MOBSCOPE<br>AUEL<br>SEMS<br>MAPS                             | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    |                                                                                                                                                                      |
| - EXECUTION                                                                  | JOPE<br>COMPES<br>COMPAS AUEL<br>SEMS        | JOPE                                                                                                           | JOPE<br>MOBSCOPE<br>ADAMS<br>ASPIR<br>CAMS<br>DAMES<br>CMSS<br>COMPAS AUEL<br>AALPS<br>SEMS<br>COMPES | UNITREP<br>DEMSTAT                                                                    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | ASPIR<br>CAMS<br>DFRIF<br>FMCS    | JOPE<br>EARLO<br>TAMS<br>CTMS<br>ASPIR<br>CAMS<br>CMS<br>CTMS<br>PACALDS<br>OSGP<br>DFRIF<br>FMCS                                                                    |
| SUSTAINMENT<br>- MATERIEL                                                    |                                              | LFSMS MOD<br>SARSS<br>DWASP<br>M3S<br>SAMS<br>SBSS<br>UDAPS-ICP<br>ACS<br>CCSS<br>SDS<br>SPBS<br>WARS<br>DFAMS | CMS<br>CODES<br>NAOMIS<br>EDS<br>LFSMS MOD<br>ARMS<br>UDAPS-SP<br>CCSS<br>CAIMS<br>ARMS               | LFSMS MOD<br>SARSS<br>DWASP<br>UDAPS-ICP<br>WARS<br>UADPS-SP<br>CCSS<br>CAIMS<br>ARMS | TC ACCIS<br>CAMS<br>DFRIF<br>FMCS | TC ACCIS<br>CAMS<br>DFRIF<br>FMCS | TC ACCIS<br>CAMS<br>DFRIF<br>FMCS | TC ACCIS<br>CAMS<br>DFRIF<br>FMCS | TC ACCIS<br>CAMS<br>DFRIF<br>FMCS | TC ACCIS<br>CAMS<br>DFRIF<br>FMCS | JOPE<br>DAMMS-R<br>DASPS-E<br>CAPS-ADAM III<br>NAOMIS<br>LOGMARS<br>EDS<br>DAAS<br>TIPS<br>AIMS<br>LIF<br>CAIMS<br>DLANET<br>WARS<br>TERMS<br>ARMS<br>DFRIF<br>MAIRS |
| - PERSONNEL                                                                  | REAL FAMMIS<br>COMPES<br>SIDPERS             |                                                                                                                | REAL FAMMIS<br>COMPES<br>SIDPERS                                                                      |                                                                                       | PAS-<br>TRAM                      | PAS-<br>TRAM                      | PAS-<br>TRAM                      | PAS-<br>TRAM                      | PAS-<br>TRAM                      | PAS-<br>TRAM                      | EARLO<br>JOPE<br>CAPS<br>PACS<br>TAMS<br>LRCSS                                                                                                                       |
| LEGEND<br>NEW SYSTEM<br>NOT APPLICABLE<br>*ONLY IF PROCESSED THROUGH AN APOD |                                              |                                                                                                                |                                                                                                       |                                                                                       |                                   |                                   |                                   |                                   |                                   |                                   | EARLO<br>JOPE<br>CAPS<br>PACS<br>TAMS<br>LRCSS<br>AIMS<br>MAIRS<br>TIPS                                                                                              |

#058-C-CV

## **SOME MOBILITY C3 ISSUES IN PRIORITY ORDER**

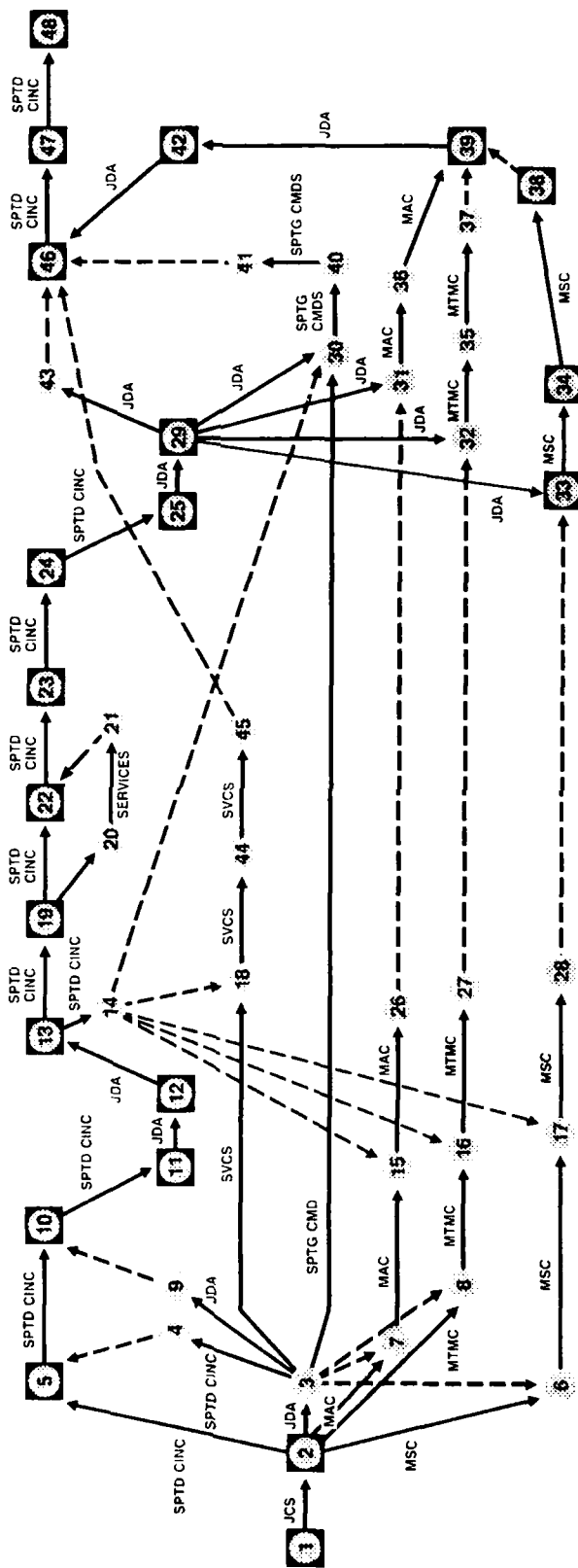
- 1. THE MOBILITY C3 SYSTEM NEEDS TO PROVIDE FASTER AND/OR MORE FLEXIBLE COA DEVELOPMENT AND/OR EXECUTION PLANNING.**
- 2. THE MOBILITY C3 SYSTEM NEEDS TO PROVIDE TIMELY, COMPLETE, AND ACCURATE INFORMATION ON THE LOCATION, STATUS, AND AVAILABILITY OF LIFT RESOURCES (AIR, LAND, AND OCEAN).**
- 3. THE MOBILITY C3 SYSTEM LACKS FLEXIBILITY. IN PARTICULAR, IT LACKS THE ABILITY TO STOP IN THE MIDDLE OF DEPLOYMENT EXECUTION AND CHANGE DIRECTION.**

•  
•  
•

# ISSUE NUMBER 1

THE MOBILITY C3 SYSTEM NEEDS TO PROVIDE FASTER  
AND/OR MORE FLEXIBLE COA DEVELOPMENT AND/OR EXECUTION PLANNING

## COURSE OF ACTION DEVELOPMENT ACTIVITY NETWORK



#058-C-CV

# MAJOR USTRANSCOM CONTRACTUAL EFFORTS (CURRENT)

| <u>CONTRACT<br/>NUMBER</u> | <u>DESCRIPTION</u> | <u>INCUMBENT</u> | <u>VALUE</u> | <u>PERFORMANCE</u> |
|----------------------------|--------------------|------------------|--------------|--------------------|
| N/A                        | N/A                | N/A              | N/A          | N/A                |

# MAJOR USTRANSCOM CONTRACTUAL EFFORT (FUTURE)

| <u>DESCRIPTION</u>                                                                                                                                                                                                                                         | <u>VALUE RANGE</u> | <u>ANTICIPATED<br/>ANNOUNCEMENT<br/>DATE</u> | <u>PERIOD OF<br/>PERFORMANCE</u> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------|----------------------------------|
| <ul style="list-style-type: none"> <li>● C3I ARCHITECTURE</li> <li>- REQUIREMENTS DERIVATION</li> <li>- ARCHITECTURE DEVELOPMENT/ANALYSIS</li> <li>- IMPLEMENTATION PLAN/ACQUISITION STRATEGY</li> <li>- SYSTEM INTEGRATION/TRANSITION PLANNING</li> </ul> | \$2M - \$10M       | APR 88                                       | OCT 88 - SEP 91                  |
| <ul style="list-style-type: none"> <li>● C3I MASTER PLAN</li> <li>- ADP, COMMUNICATIONS, COMMAND CENTERS, INTELLIGENCE</li> </ul>                                                                                                                          |                    |                                              |                                  |
| <ul style="list-style-type: none"> <li>● C3 PERFORMANCE ASSESSMENT REPORT</li> </ul>                                                                                                                                                                       |                    |                                              |                                  |
| <ul style="list-style-type: none"> <li>● ASSESSMENT/EVALUATION ACTIVITY</li> </ul>                                                                                                                                                                         |                    |                                              |                                  |

# FINAL MESSAGE

- **DCA IS LOOKING FOR A NEW CONTRACTOR WITH SPECIALIZED ABILITIES**
  1. **FAMILIARITY WITH THE DEPLOYMENT/RESUPPLY COMMUNITY**
    - JOINT DEPLOYMENT AGENCY
    - JOINT CHIEFS OF STAFF
    - TRANSPORTATION OPERATING AGENCIES
    - UNIFIED & SPECIFIED COMMANDS
    - SERVICES
    - LOGISTICS AGENCIES
    - INTELLIGENCE
  2. **FAMILIARITY WITH MOBILITY C3**
    - COMMUNICATIONS
    - COMMAND FACILITIES
    - COMPUTER/SOFTWARE SYSTEMS
  3. **ABILITY TO DO QUANTITATIVE OPERATIONS ANALYSIS ON IMPACT OF C3 IMPROVEMENTS ON EFFECTIVENESS OF MOBILITY OPERATIONS**
  4. **ABILITY TO DEVELOP AND APPLY EMPIRICAL MEASUREMENTS TO THE MOBILITY C3 SYSTEM AND MOBILITY OPERATIONS**
- **THE COMPETITION STARTS SOON**

LMED  
— 8