MAGTF C4ISR Integrated Architecture Picture Index

Short Title	Project Title	Nomenclature	Grid Location	Replaced By *
AALPS	AUTOMATED AIR LOAD PLANNING SYSTEM	None	D3-5, D8-9, D11	
ADCP	AIR DEFENSE COMMUNICATIONS PLATFORM	AN/MSQ-124	C6-7	CAC2S
AFATDS	ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEM	AN/GYC-47(V) 6/7	C3-5, C8-9, C11-13, C16	
AMS-TAC	AUTOMATED MANIFEST SYSTEM-TACTICAL	None	D3-5, D8-9, D11	
ARC-199	AIRBORNE COMMUNICATIONS PLATFORM	AN/ARC-199	B15	
ARC-159	AIRBORNE COMMUNICATIONS PLATFORM	AN/ARC-159	B15	
ARC-174	AIRBORNE COMMUNICATIONS PLATFORM	AN/ARC-174(V)2	C15	
ARC-210	AIRBORNE COMMUNICATIONS PLATFORM	AN/ARC-210	B5-6, B15	
ARC-94	AIRBORNE COMMUNICATIONS PLATFORM	AN/ARC-94	B15	
ASC-26	HELIBORNE COMMUNICATIONS GROUP	AN/ASC-26	B5, B15	
ATC VOICE/ DATA GW	AIR TRAFFIC CONTROL VOICE/DATA GATEWAY	None	C6	
ATHS II	AUTOMATIC TARGET HAND-OFF SYSTEM II	AN/ARC-182	B15	
ATLASS II	ASSET TRACKING LOGISTICS AND SUPPLY SYSTEM II	ATLASS II	D3-5, D8-9, D11-13	
AVENGER	GUIDED MISSILE BATTERY CONTROL CENTRAL, VEHICLE MOUNTED AIR DEFENSE WEAPON SYSTEM	AN/TWQ-1	C7	
CAC2S	COMBINED AVIATION C2 SYSTEM	None	C5-6, C8, C15	
CGS 300	COMMON GROUND STATION 300	None	C5	
CLAWS	COMPLEMENTARY LOW ALTITUDE WEAPONS SYSTEM	None	C7	
CMOS	CARGO MOVEMENT OPERATIONAL SYSTEM	None	D3-5, D8-9, D11	
COBRA	COASTAL BATTLEFIELD RECONNAISSANCE AND ANALYSIS	None	C5	
CTN	COMPOSITE TRACKING NETWORK	None	C6	
CTT	COMMANDERS TACTICAL TERMINAL-THREE CHANNEL	AN/USC-55	C3-6, C8-9, C11, E4-5, E8	IBR
DACT	DATA AUTOMATED COMMUNICATIONS TERMINAL	None	C6-7, C11-13, C16, C18	
DAGR	DEFENSE ADVANCED GPS RECEIVER	None	C4-14, C16-18	
DASC (A)	AIRBORNE DIRECT AIR SUPPORT CENTRAL	AN/UYQ-3A	C15	CAC2S
DCS-2000	DIGITAL COMMUNICATIONS SYSTEM 2000	None	C15	
DDS	DIGITAL DATA SET	None	B6	
DDS	DIGITAL DATA SET V(1) AND V(2)	None	C3-6, C8-9, C11-12, C16, D3-6, D8-9, D11-12, E4-5, E8	
DMS	DEFENSE MESSAGE SYSTEM	None	C3-5, C8, D4, E5	
DTC	DIGITAL TECHNICAL CONTROL	AN/TSQ-227	B3-6, B8	
EPLRS	ENHANCED POSITION LOCATION AND REPORTING SYSTEM	RT-1720C(C)/G	B9, B11-13, B16, B18	
FICCS	FIRST IN C2 SYSTEM	None	C4	
GBS	GLOBAL BROADCAST SERVICE	None	C3-5, C8-9, C11	
GCCS	GLOBAL COMMAND AND CONTROL SYSTEM	None	C3-5, C8	CAC2S @ C5
GCS-2000	GROUND CONTROL STATION 2000	None	C5	
GCSS	GLOBAL COMBAT SUPPORT SYSTEM	None	D3-5, D8-9, D11	
GRC-171	RADIO SET, HAVEQUICK II	AN/GRC-171	B5-6, B8, B15	JTRS
GRC-193	HF RADIO SET	AN/GRC-193	B6	JTRS
GRC-213	HF RADIO SET	AN/GRC-213	B16	JTRS
GRC-231A	HF RADIO SET	AN/GRC-231A	B4, B17	JTRS
GRC-242	HF RADIO SET	AN/GRC-242	B6	JTRS
IBR	INTELLIGENCE BROADCAST RECEIVER	None	B3-6, B8-9, B11	
ICODES	INTEGRATED COMPUTERIZED DEPLOYMENT SYSTEM	None	D3-5, D8-9, D11	
INTEL WS	INTELLIGENCE WORKSTATION	AN/UYQ-88	C3-5, C8-9, C11-13, E5, E8	
IOS (V1)	INTELLIGENCE OPERATIONS SERVER (V1)	AN/UYQ-XX	C3-6, C8-9, C11, C16, E5	CAC2S @ C5
IOS (V2)	INTELLIGENCE OPERATIONS SERVER (V2)	AN/UYQ-69	C3-6, C8-9, C11, C16, E4-5, E8	
IOW	INTELLIGENCE OPERATIONS WORKSTATION	AN/UYQ-88	C3-6, C8-9, C11-13, D6	CAC2S @ C5
IPADS	IMPROVED POSITION AND AZIMUTH DETERMINING SYSTEM	None	C9, C12	
ISR	INTRA-SQUAD RADIO	None	B18	
JDIICS-D	JOINT DEFENSE INFORMATION INFRASTRUCTURE CONTROL SYSTEMS-DEPLOYED)	None	C4, D4, E4	JNMS
JDISS	JOINT DEPLOYABLE INTELLIGENCE SUPPORT SYSTEM	None	E4	
JFRG-II	JOINT FORCES REQUIREMENTS GENERATOR-II	JFRG-II	D3-5, D8-9, D11	
JNMS	JOINT NETWORK MANAGEMENT SYSTEM	None	C3-5, C8, D4, E4	
JSTARS-CGS	JOINT SURVEILLANCE TARGET ATTACK RADAR SYSTEM (COMMON GROUND STATION)	AN/TSQ-179	C4	
JTRS	JOINT TACTICAL RADIO SYSTEM		B3-18	
LMST	LIGHTWEIGHT, MULTI-BAND, SATELITE TERMINAL	AN/USC-65	B3-5, B8	
MATCALS	MARINE AIR TRAFFIC CONTROL AND LANDING SYSTEM	AN/TSQ-131	B6	
MCTIS	MOUNTED COOPERATIVE TARGET IDENTIFICATION SYSTEM		C3-6,C8-9,C11-13, C16	
MDSS II	MAGTF DEPLOYMENT SUPPORT SYSTEM-II	None	D3-5, D8-9, D11-13	
MEF IAS	MARINE EXPEDITIONARY FORCE INTELLIGENCE ANALYSIS SYSTEM	AN/MYQ-7	C4	
MEWSS	MOBILE ELECTRONIC WARFARE SUPPORT SYSTEM	AN/MLQ-36A	E17	
MIDS	MULTIFUNCTION INFORMATION DISTRIBUTION SYSTEM	None	C-15	
MIPS	MARINE INTEGRATED PERSONNEL SYSTEM	None	D3-5, D8-9, D11-13	
MRC-142	DIGITAL WIDEBAND TRANSMISSION SYSTEM (DWTS)	AN/MRC-142	B4, B6, B8-9, B11-12	
MRRS	MULTI-ROLE RADAR SYSTEM	None	B6	
MSCS	MULTIPLE SOURCE CORRELATION SYSTEM	AN/TYQ-101	C5	CAC2S
MSIDS	MANPACKABLE SECONDARY IMAGERY DISSEMINATION SYSTEM	AN/PSQ-13(v2)	C4, C16, C18, E4	
PADS	POSITION AND AZIMUTH DETERMINING SYSTEM	AN/USQ-90	C9, C12	IPADS
PLGR	PRECISION LIGHTWEIGHT GLOBAL POSITIONING RECEIVER	AN/PSN-11	C4-14, C16-18	DAGR
PRC-104	HF RADIO SET	AN/PRC-104	B3-11, B13-14, B16-18	JTRS
PRC-113	VHF/UHF RADIO SET	AN/PRC-113	B14	
PRC-148	TACTICAL HAND HELD RADIO	AN/PRC-148	B3-4, B12, C18	JTRS
PRC-150	HF MANPACK RADIO	AN/PRC-150	B4-6, B8, B11, B17-18	JTRS
PSC-5	ENHANCED MANPACK UHF TERMINAL (SPITFIRE)	AN/PSC-5	B3-5, B8-9, B11, B16-18	
RREP-SS-2	RADIO RECON EQUIPMENT PROGRAM SIGINT SUITES 2	None	E17	
RTU	REMOTE TERMINAL UNIT	None	C7	
SB-3614	TELEPHONE SWITCHBOARD	SB-3614	B3, B5-6, B16	
SB-3865	AUTOMATIC TELEPHONE SWITCHBOARD UNIT LEVEL SWITCH	SB-3865 ( )/TTC	B6, B9, B11-12	TSM
SIAP	SINGLE INTEGRATED AIR PICTURE		C5-6, C8	
SIDS	SECONDARY IMAGERY DISSEMINATION SYSTEM	None	C4, C16, C18, E4	MSIDS
SINCGARS	SINGLE CHANNEL GROUND AND AIRBORNE RADIO SYSTEM	AN/MRC-XXX AN/PRC-XXX AN/VRC-XXX	B3-14, B16-18	
SMART-T	MILSTAR ADVANCED SATELLITE TERMINAL (MAST)	AN/TSC-154	B3-4, B8-9, B11	
SSCC	SPECIAL SECURITY COMMUNICATIONS CENTRAL	AN/MSC-63A	E4-5, E8	DMS
TACPHOTO	TACTICAL INTELLIGENCE PHOTOGRAPHIC CAPABILITY	None	C3-6, C8-9, C11-13, C18	
TAMPS	TACTICAL AUTOMATED MISSION PLANNING SYSTEM	None	C5-6	
TAOM	TACTICAL AIR OPERATIONS MODULE	AN/TYQ-23(V)4	C6	CAC2S
TBMCS	THEATER BATTLE MANAGEMENT CORE SYSTEMS	AN/TYY-2	C5, C6, C8	CAC2S
TCAC	TECHNICAL CONTROL ANALYSIS CENTER	AN/MYQ-8	E4	
TC-AIMS	TRANSPORTATION COORDINATORS AUTOMATED INFORMATION FOR MOVEMENT SYSTEM	None	D3-5, D8-9, D11-13	TC-AIMS II
TC-AIMS II	TRANSPORTATION COORDINATORS AUTOMATED INFORMATION FOR MOVEMENT SYSTEM II	None	D3-5, D8-9, D11-13	
TCC	TACTICAL COMMUNICATIONS CENTRAL	AN/MSC-63A	C3-5, C8	DMS
TCU	TERMINAL CONTROL UNIT	None	B5	
TDAR	TACTICAL DEFENSE ALERT RADAR	AN/UPS-3	C7	
TDN GATEWAY	TACTICAL DATA NETWORK	AN/TSQ-222	B3-6, B8	
TEG	TACTICAL EXPLOITATION GROUP	AN/MSQ-134	C4	
TERPES	TACTICAL ELECTRONIC RECONNAISSANCE, PROCESSING, AND EVALUATION SYSTEM	AN/TSQ-90E	C5	
TPC	TOPOGRAPHIC PRODUCTION CAPABILITY	None	C4	
TPCS	TEAM PORTABLE COLLECTION SYSTEM	AN/PSQ-9	E10	TPCS MPC
TPCS MPC	TEAM PORTABLE COLLECTION SYSTEM - MULTI-PLATFORM CAPABLE	None	E10	
TPN-22	AIR TRAFFIC CONTROL SUBSYSTEM	AN/TPN-22	B6	
TPS-59	LONG RANGE 3D AIR SEARCH RADAR	AN/TPS-59	B6	
TPS-63	TACTICAL 2D RADAR	AN/TPS-63	B6	MRRS
TPS-73	AIR TRAFFIC CONTROL RADAR SET (ATCS)	AN/TPS-73	B6	
TRC-170	TROPOSCATTER RADIO SET	AN/TRC-170(V)5	B3-6, B8	
TROJAN SPIRIT	TROJAN SPIRIT SHF SATCOM	AN/TSQ-190(V)2	B4-5, B8	
TRSS	TACTICAL REMOTE SENSOR SYSTEM	AN/GSQ-261	B4	
TSC-120	HF COMMUNICATIONS CENTRAL	AN/TSC-120	B3-6, B8-9	
TSC-96A	SATELLITE COMMUNICATIONS CENTRAL	AN/TSC-96A	B4	
TSC-93C	GROUND MOBILE FORCE (GMF) TERMINAL	AN/TSC-93C	B3, B5, B8	
TSC-85C	GROUND MOBILE FORCE (GMF) TERMINAL	AN/TSC-85C	B4	
TSM	TRANSITION SWITCH MODULE	None	B3-6, B8-9, B11-12	
TSQ-131	CONTROL AND COMMUNICATION SUBSYSTEM	AN/TSQ-131	B6	
TTC-42	TELEPHONE SWITCH	AN/TTC-42	B3-5, B8	TSM
UOC	UNIT OPERATIONS CENTER	None	C3-6, C8-9, C11-13	
URC-107	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM (JTIDS) TERMINAL	AN/URC-107	B5-6	
URC-94	HF RADIO SET	AN/URC-94	B6	
USQ-101(V)5	TACTICAL RECEIVE EQUIPMENT (TRE)	AN/USQ-101(V)5	C5	IBR
VRC-102	HF RADIO SET	AN/VRC-102	B5-6, B15	
VRC-83	VHF/UHF RADIO SET	AN/VRC-83	B4, B8, B16	
VRC-99	UHF RADIO SET	AN/VRC-99	B17	

* The "Replaced By" column identifies the POM 04 system replacing the current system. The "@" is used to identify "grid location" in cases where a replacing system is not replacing the system in all respective grid locations.

MAGTF C4ISR Integrated Architecture Picture

January 21, 2003
Version: Draft

Background

This architecture view is based on the DoD "C4ISR Architecture Framework, Version 2.0." As an integrated picture, it depicts elements of operational, system, and technical architecture views. These views include fielded systems, as well as currently funded (POM-04) systems, for a MAGTF built around a notional Marine Expeditionary Force (MEF). It serves as a tool to help address interoperability and integration issues.

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NORTHROP GRUMMAN
Information Technology

Picture Layout

Horizontal Layout

- Operational View (top portion)
  - Notional MEF lay down
  - Representative operational facilities (OPFACs) and applicable warfighting functions
- System and Technical View (bottom portion)
  - Radio Frequency Spectrum
  - Communications Infrastructure
  - Systems Infrastructure

Vertical Layout

The alternating clear/shaded vertical slices of the picture align the MEF organizational elements with their related OPFAC(s), as well as their corresponding RF spectrum use, communications infrastructure, and systems infrastructure.