![MC4 logo] **MC4**
Medical Communications for Combat Casualty Care

Medical Communications for Combat Casualty Care (MC4) Pocket Guide

GTA 08-10-015   **August 2011**

Vision Statement:
The premier enabler for improved tactical health care and better decision making through the power of information technology

Mission Statement:
Medical Communications for Combat Casualty Care (MC4) integrates, fields and supports a comprehensive medical information system, enabling lifelong electronic medical records, streamlined medical logistics and enhanced situational awareness for Army tactical forces.

US ARMY PEO EIS
PEO ENTERPRISE INFORMATION SYSTEMS

THE GATEWAY | MC4
ARMY TACTICAL HEALTH INFORMATION SYSTEMS RESOURCE | Medical Communications for Combat Casualty Care

www.mc4.army.mil

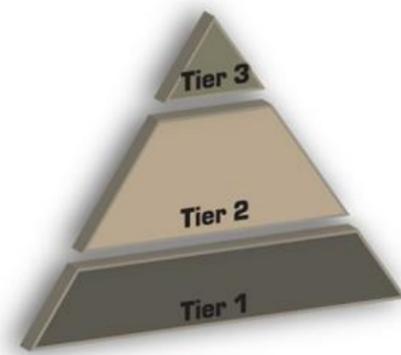**Subscribe to** *The Gateway Monthly*

Learn about the MC4 mission
Read and comment on MC4 news
View photos and videos from the field

Learn about system updates
Read the PM's, field and MC4 tech blogs
Mine system tips, FAQs and templates

Get MC4 training and support
Share best practices and download technical data
Give MC4 feedback

Best Business Practice Support –
"Commander's Guide to MC4"
Access on AKO:
https://www.us.army.mil/suite/page/625001

Tier 3 / Tier 2 / Tier 1 (pyramid)

Tier 3
MC4 Support Personnel
(Direct Support, General Support, Depot)
- Advanced systems and application troubleshooting
- Training of Tier 1 and Tier 2 support personnel
- Application training for system users

Tier 2
Unit S-6, Commo Shop or Sustainment Automation Support Management Office (SASMO)
(Organization Level Maintenance)
- Network configuration and support
- Skilled hardware diagnostics
- System imaging and configuration
- Operating system troubleshooting and support

Tier 1
Unit Level Administrator
(Operator Level Maintenance)
- Daily user support including creating and maintaining passwords
- Basic system troubleshooting
- Nightly backups and routine systems checks
- Hardware preventive maintenance checks and services (PMCS)

Global Operations

Western / Central United States / Eastern

Egypt

Afghanistan

Djibouti

Germany / Poland

Italy / Romania

Kosovo

Iraq

Kuwait

Qatar

Thailand

South Korea

Japan

Philippines

Applications

AHLTA-Mobile operates on a handheld computer device or on a laptop. First responders can utilize this application to record initial patient encounter data and synchronize it with the AHLTA-Theater (AHLTA-T) application, located on a laptop.

AHLTA-T provides clinical encounter functionality that allows health care providers to enter a complete outpatient clinical encounter. Medical personnel use this software on their laptops to transfer the encounter data to the Medical Situational Awareness in the Theater (MSAT) application for collection of medical surveillance.

AHLTA Warrior enables deployed medical professionals to view a Service member's stateside medical history through read-only, virtual private network (VPN) access into the Clinical Data Repository (CDR).

Defense Medical Logistics Standard Support (DMLSS) Customer Assistance Module (DCAM) is a Windows®-based medical logistics ordering tool that allows users to research requirements, view their supplier's catalog and submit orders to their supplier while maintaining an inventory database.

Electronic Post-Deployment Health Assessment (ePDHA) is an application used by Service members and providers, via handheld or laptop, to record post-deployment health assessment information.

Medical, Environmental, Disease, Intelligence and Countermeasures (MEDIC) is an automated medical reference tool developed by the Armed Forces Medical Intelligence Center that provides information on worldwide disease and environmental health risks.

Medical Situational Awareness in the Theater (MSAT) is a Web-based application that combines information from multiple communities to provide a common operating picture as well as decision support. MSAT links together information that encompasses disease and non-battle related injuries; physical and psychological trauma; patient tracking; chemical and biological threats;

Applications (continued)

environmental and occupational health; intelligence; command and control data; personnel; and unit locations and weather. MSAT increases the capability previously found in Joint Medical Workstation (JMeWS).
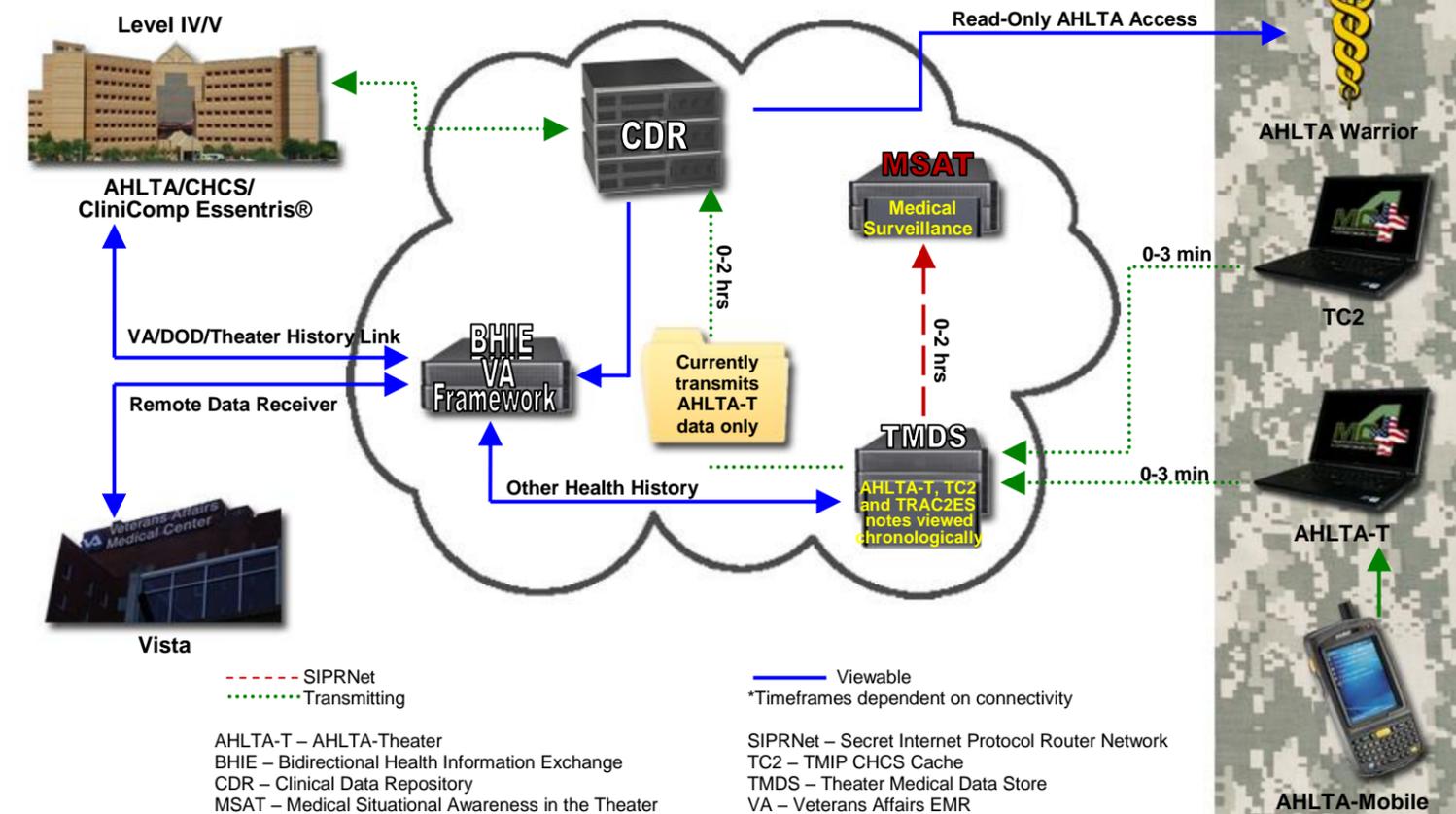
Micromedex® is a commercial, off-the-shelf medical information database developed by Thomson Reuters. It is accessible through a compact disk and provides information on drugs, poisons and illnesses.

Theater Medical Data Store (TMDS) offers users the ability to view individual patient encounters anywhere in the world (from a .mil domain). Providers can view captured medical data on the Soldier no matter where it was completed (while deployed in a theater environment). Patient encounters in theater are entered through the MC4 laptop with AHLTA-T and Theater Medical Information Program (TMIP) Composite Health Care System (CHCS) Cache, or TC2, to the JMeWS (MSAT 2) server, where the records can be accessed via MSAT 2 and TMDS. The records are also transferred to the CDR as part of the Soldier's lifelong medical record. TMDS provides blood inventory management capabilities.

TC2 is used primarily by combat support hospitals (level III facilities) to provide clinical inpatient functionalities, including laboratory, radiology and pharmacy capabilities. TC2 interfaces with AHLTA-T and TMIP Reports.

Transportation Command (TRANSCOM) Regulating and Command & Control Evacuation System (TRAC2ES) is a Web-based application available on the MC4 laptop and used by transportation planners to support planning and documentation of patient regulation/movement in the theater of operations. It contains a temporary data cache for storing information that is sent and received.

EMR Data Workflow

Level IV/V — AHLTA/CHCS/CliniComp Essentris®

Read-Only AHLTA Access — AHLTA Warrior

CDR

MSAT — Medical Surveillance

0-3 min — TC2

0-2 hrs

VA/DOD/Theater History Link — BHIE VA Framework

Remote Data Receiver

Currently transmits AHLTA-T data only

0-2 hrs — TMDS — AHLTA-T, TC2 and TRAC2ES notes viewed chronologically

0-3 min — AHLTA-T

Other Health History

Vista — Veterans Affairs Medical Center

AHLTA-Mobile

- - - - - SIPRNet
········· Transmitting
——— Viewable
*Timeframes dependent on connectivity

AHLTA-T – AHLTA-Theater
BHIE – Bidirectional Health Information Exchange
CDR – Clinical Data Repository
MSAT – Medical Situational Awareness in the Theater

SIPRNet – Secret Internet Protocol Router Network
TC2 – TMIP CHCS Cache
TMDS – Theater Medical Data Store
VA – Veterans Affairs EMR

Graphics are a representation of systems used.

What We Do

Product Integration

Joint, Government Software from DHIMS (GOTS)
- AHLTA-Theater (AHLTA-T)
- AHLTA-Mobile (AHLTA-M)
- Defense Medical Logistics Standard Support (DMLSS)
- DMLSS Customer Assistance Module (DCAM)
- TRANSCOM Regulating and Command and Control Evacuation System (TRAC2ES)
- Medical Situational Awareness in Theater (MSAT)
- Patient Movement Item Tracking System (PMITS)
- Theater Medical Information Program (TMIP) Composite Health Care System (CHCS) Cache (TC2)
- Theater Medical Data Store (TMDS)

AND MORE

Army Unique Software
- Defense Blood Standard System (DBSS)
- Electronic Post Deployment Health Assessment (ePDHA)
- Joint Theater Trauma Registry (JTTR)

Communications Support
- VSAT/Network Facilitation
- Remote Diagnostic Access

Future Capabilities
- Tele-Medicine
- Smart Devices
- Point-of-Injury Recording

Commercial Software (COTS)
- Microsoft Office®
- Micromedex®
- Credant®
- Adobe®
- Dragon Naturally Speaking®
- Active Client®

AND MORE

Comprehensive Customer Services

Fielding | **Training** | **Support**

Current System Capabilities

Electronic Outpatient Medical Record:
AHLTA-T, AHLTA-Mobile

Electronic Inpatient Documentation:
TMIP CHCS Cache (TC2)

Laboratory, Radiology, and Pharmacy:
TMIP CHCS Cache (TC2)

Blood Inventory Management:
TMDS

Retrieval of Previous Records:
TMDS, AHLTA Warrior

Post Deployment Health Assessment (PDHA):
ePDHA, Pocket PDHA

Trauma Performance Improvement Database:
JTTR

Patient Tracking:
TRAC2ES, TMDS, TRAC2ES Mobile

Medical Logistics:
DCAM, PMITS, DMLSS

Medical References:
Micromedex®, MEDIC

Medical Surveillance and AnnexQ Reports:
MSAT (via Secret Internet Protocol Router Network or SIPRNet)

Types of MC4 Training Available

- **New Equipment Training (NET)** - At the time the MC4 system is fielded to a unit, Soldiers, leaders and medical providers receive introductory training. NET is the initial transfer of knowledge on the operation and maintenance of new and improved equipment and software from MC4 to the user.

- **Self Development** - Computer- and Web-based training products are available for individual self-development. Additionally, MC4 training materials are located on each MC4 system and the MC4 Army Knowledge Online website.

- **Just-In-Time Training** - Several opportunities exist for just-in-time training including Reception, Staging, Onward Movement and Integration (RSOI) and over-the-shoulder training, both conducted in theater. Additionally, refresher training is available in the Continental United States (CONUS).

- **Collective Unit Training** - Collective training includes training at home station, training at Combat Training Centers (CTCs), and training while deployed. Collective training develops and sustains the unit's capability to deploy rapidly and accomplish any mission across the spectrum of conflict. MC4's collective training support program facilitates the integration of MC4 supported applications into collective training events.

Contact your local MC4 lead to request training

IRAQ, KUWAIT & QATAR
011-965-902-4801
DSN 318-430-1331
mc4.kuwait@us.army.mil

AFGHANISTAN
011-93-799-528-460
DSN 318-481-6903
mc4.afghanistan@us.army.mil

EUROPE
49-0-6372-842-3250
DSN 314-481-3250
mc4.europe@us.army.mil

SOUTH KOREA
010-8680-7085
DSN 315-736-6422
mc4.korea@us.army.mil

MC4 Western Region
AK, AZ, CA, CO, HI, ID, MT, NM, NV, OR, UT, WA, WY
253-966-4492 (DSN 347)
mc4.western@us.army.mil

MC4 Central Region
AR, IA, IL, KS, LA, MN, MO, ND, NE, OK, SD, TX, WI
254-288-2800 (DSN 738)
mc4.central@us.army.mil

MC4 Eastern Region
AL, CT, DC, DE, FL, GA, IN, KY, MA, MC, MD, ME, MI, MS, NH, NJ, NY, OH, PA, RI, SC, TN, VA, VT, WV
910-396-7191 (DSN 236)
mc4.eastern@us.army.mil

Online Training Opportunities

MC4 Training Materials
on AKO:
https://www.us.army.mil/suite/community/27092498

AHLTA-Mobile
CBT:
http://dhims.health.mil/userSupport/tmip/training/tutorials.aspx
Training Materials:
http://dhims.health.mil/userSupport/tmip/training/tipsTricks.aspx

AHLTA-T
Training Materials:
http://dhims.health.mil/userSupport/tmip/training/tipsTricks.aspx

DCAM
Training Materials:
http://dhims.health.mil/userSupport/tmip/training/tipsTricks.aspx
FAQ:
http://health.mil/mhscio/programs_products/jmis/dhss/products/dcam.aspx

DMLSS
CBT:
https://jml149.dmlss.detrick.army.mil/DMLSSU/
Training Materials:
http://dhims.health.mil/userSupport/tmip/training/tipsTricks.aspx
FAQ:
http://health.mil/mhscio/programs_products/jmis/dhss/products/dmlss.aspx

JTTR
Training Materials:
https://www.us.army.mil/suite/portal.do?$p=131956

Online Training Opportunities (continued)

MSAT
(incorporating the JMeWS portlet)
Training Materials:
http://dhims.health.mil/userSupport/tmip/training/tipsTricks.aspx
Screen Casts/Training Materials:
https://www.us.army.mil/suite/page/635248
Training Website:
https://train.msat.akimeka.com/

TC2
Training Materials:
http://dhims.health.mil/userSupport/tmip/training/tipsTricks.aspx

TRAC2ES
Training Materials:
http://dhims.health.mil/userSupport/tmip/training/tipsTricks.aspx

TMDS
Training Materials:
http://dhims.health.mil/userSupport/tmip/training/tipsTricks.aspx
Training Website:
https://tmds-training.akimeka.com/tmds/

Neurocognitive Assessment Tool (NCAT)
Training Materials:
http://dhims.health.mil/userSupport/tmip/training/tipsTricks.aspx

Patient Movement Items Tracking System (PMITS)
FAQ:
http://health.mil/mhscio/programs_products/jmis/dhss/products/pmits.aspx

---

User Survey

Available anytime on the MC4 website
https://www.gdit-mc4.com/MC4UserSurvey/

We request commanders' direct input just prior to deployment and 3-4 months into deployment.