

Common Hardware Systems (CHS)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Provides state-of-the-art computer and networking equipment for the warfighter that improves connectivity, interoperability, logistics and worldwide repair, maintenance, and logistics support on the C4ISR battlefield.

DESCRIPTION

The Common Hardware Systems (CHS) program provides state-of-the-art, fully qualified, interoperable, compatible, deployable, and survivable hardware and computer networking equipment for command, control, and communications at all echelons of command for the Army and other DoD services. The CHS contract includes a technology insertion capability to continuously refresh the network-centric architectural building blocks, add new technology, and prevent hardware obsolescence. New products

compliant with technology advances such as Internet Protocol Version Six (IPv6) can be easily added to the CHS offerings. CHS products include a spectrum of computer processors such as personal digital assistants (PDAs), high-end tactical computers, networking equipment, peripherals, displays, installation kits, and miscellaneous hardware needed for system integration. Four standardized environmental categories (Version 1, Version 1+, Version 2, and Version 3) are used to define hardware ruggedization and qualification test certification for the customers. Version 2 and Version 3 equipment items go through government-witnessed first article tests (FAT). Technical assistance and support services are also available.

CHS also provides worldwide repair, maintenance, logistics, and technical support through strategically located contractor-operated regional support centers (RSC) for tactical military units and management of a comprehensive five-year warranty. CHS hardware Version 1 includes commercial workstations, peripherals,

and networking products. Version 1+ is Version 1 hardware that is modified for better survivability in the field with a minimal increase in cost. Version 2 includes ruggedized workstations, peripherals, and networking products. Version 3 includes near-military specification rugged handheld units.

SYSTEM INTERDEPENDENCIES

None

PROGRAM STATUS

- **1QFY08:** Acquired Battlefield Video Teleconferencing (BVTC) program
- **2QFY08:** Completed high-altitude electromagnetic pulse test
- **4QFY08:** Tactical Switching Requirement-3 (TSR-3) contract was signed

PROJECTED ACTIVITIES

- **2QFY09–2QFY11:** Continue CHS-3 hardware and software deliveries
- **2QFY09–2QFY11:** CHS-3 hardware and software; CHS Southwest Asia repair facility
- **3QFY09:** Joint User Interoperability Communications Exercise (JUICE)
- **3QFY09–4QFY11:** BVTC fieldings
- **4QFY09:** Award Total Asset Visibility (TAV) contract
- **2QFY10:** CHS-4 contract award

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Common Hardware Systems (CHS)

FOREIGN MILITARY SALES

None

CONTRACTORS

General Dynamics C4 Systems
(Taunton, MA)

Sun Microsystems (Santa Clara, CA)

Cisco (San Jose, CA)

DRS Technologies (Parsippany, NJ)

Dell (Austin, TX)

Hewlett Packard (Palo Alto, NM)

Elbit Systems (Tallahassee, FL)

ECS (Lanham, MD)



CHS Hardware



WIN-T Transit Cases



Antenna Interface
Case (AIC)



Multi-processor Ethernet-
switched Combat Chassis



Uninterruptible Power
Supply (UPS)

CHS hardware includes:

- BCCS V3 Operational Transit Cases (OTCs) (Battle Command Common Services–Version 3)
- Standalone Computer Unit (SCU-2)
- Miltope TSC-V3-GM45 RLC (Rugged Laptop Computer) Army and USMC AFATDS configurations
- Antenna Interface Case (AIC)
- CISC-2 Servers
- Multi processor Ethernet-switched Combat Chassis–5 Slice (MECC–5), 7 Slice (MECC–7)
- Modular Four-Slice Multiple Processor Unit (M4S MPU-2)
- Laptops and Servers
- Routers, Switches, and Firewalls
- Network and Communications
- Displays (LCDs)
- Peripherals
- Tablets and Handheld
- Uninterruptible Power Supplies (UPS) and Power Converter/Conditioners (PCC)
- Storage/RAID

