

Common Hardware Systems (CHS)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Provides state-of-the-art, fully qualified, interoperable, compatible, deployable, and survivable hardware for command, control, and communications at all echelons of command for the Army and other DoD services.

DESCRIPTION

The Common Hardware Systems (CHS) program is the command and control enabler for Army Transformation, providing modularity, interoperability, and compatibility to support implementation of net-centricity. 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 6 (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. CHS products can be procured in four versions: version 1 (non ruggedized), version 1+ (Moderate ruggedization of v1), version 2 (ruggedized), and versions 3 (fully rugged, MIL-SPEC Rugged Handheld Unit).

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

- **2QFY08:** Completed high-altitude electromagnetic pulse test
- **4QFY08:** Tactical Switching Requirement-3 (TSR-3) contract signed
- **2QFY09–2QFY11:** Continue CHS-3 hardware deliveries
- **2QFY09:** (As Required) CHS Operation Enduring Freedom/ Operation Iraqi Freedom repair facilities
- **3QFY09:** Joint User Interoperability Communications Exercise
- **4QFY09:** Awarded Total Asset Visibility contract
- **3QFY10:** CHS-4 Solicitation released to industry

PROJECTED ACTIVITIES

- **2QFY11:** CHS-4 contract award
- **2QFY16:** CHS-5 contract award

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Common Hardware Systems (CHS)

FOREIGN MILITARY SALES

Australia, Colombia

CONTRACTORS

Engineering:

Engineering Solutions and Products (ESP)
(Oceanport, NJ)

CACI (Eatontown, NJ)

Sensor Technologies (Red Bank, NJ)

Logistics, Ordering:

Engineering Solutions and Products (ESP)
(Oceanport, NJ)

Lab/Tech Support:

Northrop Grumman (Eatontown, NJ)

Consultant:

Sensor Technologies (Red Bank, NJ)



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

