

Stryker Family of Vehicles

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Enables the Army to immediately respond to urgent operational requirements anywhere in the world using rapidly deployable, agile, and strategically responsive support vehicles.

DESCRIPTION

As the primary combat and combat support platform of the Stryker Brigade Combat Team (SBCT), the Stryker Family of Vehicles fulfills an immediate requirement for a strategically deployable (C-17/C-5) brigade capable of rapid movement anywhere on the globe in a combat-ready configuration. The Stryker Family of Vehicles is built on a common chassis, each with a different Mission Equipment Package. There are ten variants, including the Infantry Carrier Vehicle (ICV), the Mobile Gun System (MGS), the Reconnaissance Vehicle (RV), Mortar Carrier,

Commanders Vehicle, Fire Support Vehicle (FSV), Engineer Squad Vehicle, Medical Evacuation Vehicle (MEV), Anti-tank Guided Missile (ATGM) Vehicle, and the Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV).

The ICV (excluding the MEV, ATGM, FSV, and RV) is armed with a Remote Weapon Station supporting an M2 .50 caliber machine gun or MK19 automatic grenade launcher, the M6 grenade launcher, and a thermal weapons sight. Stryker supports communication suites that integrate the Single-Channel Ground-and-Air Radio System (SINGARS) radio family; Enhanced Position Location Reporting System (EPLRS); Force XXI Battle Command Brigade-and-Below (FBCB2) or Blue Force Tracker (BFT); Global Positioning System (GPS); high-frequency (HF) and multi-band very-high and ultra-high frequency (VHF/UHF) radio systems. Stryker provides 360 degree protection against armor-piercing threats. Stryker is powered by a 350-hp diesel engine, runs on eight wheels that possess a

run-flat capability, and has a central tire-inflation system. It also incorporates a vehicle-height management system.

The Stryker program leverages non-developmental items with common subsystems and components to allow rapid acquisition and fielding. Stryker integrates government furnished materiel subsystems as required and stresses performance and commonality to reduce the logistics footprint and minimize costs.

SYSTEM INTERDEPENDENCIES

In this Publication
FBCB2, SINGARS

Other Major Interdependencies

DAGR, DVE, EPLRS, FH MUX, FS3, KNIGHT, LRAS3, MCS, MFCS, RWS, SHADOWFIRE, SPITFIRE, STORM, VIS VIC, Sensor Processing Group, Sensor Suite

PROGRAM STATUS

- **4QFY09:** Configuration Steering Board addresses trigger event requirements to Stryker program

- **1QFY10:** Army announces plan to convert two Heavy Brigade Combat Teams (HBCTs) to SBCTs, increasing total SBCTs to nine
- **2QFY10:** Acquisition Decision Memorandum (ADM) clarifies the term correction regarding MGS deficiencies and authorizing continued use of development or production funds in the existing MGS fleet
- **4QFY10:** ADM authorizes concurrent production and testing of Army-directed requirement for 450 Strykers with improved survivability enhancements

PROJECTED ACTIVITIES

- **1QFY11:** First HBCT begins conversion to SBCT
- **1QFY11:** Stryker Modernization requests a materiel development decision to enter into the technology development acquisition phase
- **4QFY11:** Planned full-rate production decision for NBCRV and MGS variants
- **4QFY11:** Initial deployment of Strykers incorporating improved survivability enhancements to Afghanistan
- **1QFY12:** Second HBCT begins conversion to SBCT

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Stryker Family of Vehicles

FOREIGN MILITARY SALES

None

CONTRACTORS

General Dynamics Land Systems
(Sterling Heights, MI)

Manufacturing/Assembly:

General Dynamics Land Systems-Canada
(London, Ontario, Canada)

Joint Systems Manufacturing Center
(JSMC) (Lima, OH)

General Dynamics Assembly Operations
(Anniston, AL)

Engineering:

General Dynamics (Sterling Heights, MI)

Kits:

Verhoff Machine (Continental, OH)

Manifold/Alternator:

North American Controls (Shelby Twp, MI)

Sensors/CCA:

Raytheon (El Segundo, CA)

Fire System Assembly:

Kidde Dual Spectrum (Goleta, CA)

