PM Stryker Brigade Combat Team (SBCT)

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Commonality

- Common Operating Picture
- Common Chassis & Drive Train
- Common KPP’s
- Common Survivability
- Common TMDE, Spare Parts, Tools & Skills

Bottom Line

Stryker provides enhanced, battle-proven capabilities to warfighters.

- Over 28 million miles in Combat
- Currently on 15th SBCT Deployment

Total in a Brigade: 332

Current Fleet Delivered: 3,894

Remaining On Order: 292

Infantry Carrier Vehicle (ICV) - 130
Reconnaissance Vehicle (RV) - 52
Mobile Gun System (MGS) - 29
Medical Evacuation Vehicle (MEV) - 16
Engineer Squad Vehicle (ESV) - 13
Anti Tank Guided Missile (ATGM) - 10
Commander’s Vehicle (CV) - 28
Fire Support Vehicle (FSV) - 14

NBC Reconnaissance Vehicle (NBCRV) - 3
120mm Mounted Mortar Carrier (MCV) - 37

Supporting the ARFORGEN Process

Current Operations

**BDE CONUS/OCONUS**
- Fort Bliss, TX
- Fort Hood, TX
- FtIg, PA
- Fort Wainwright, AK
- Fort Lewis, WA (3ea BDE)
- Schofield Barracks, HI
- Vilseck, DE

**COMMAND**
- Warren, MI
- Washington D.C.

**DEPLOYED BDE**
- OEF

**SPOD/APOD**
- San Diego, CA, US
- Tacoma, WA, US
- Honolulu, HI, US
- Charleston, SC, US
- Beaumont, TX, US
- Bremerhaven, DE
- Diego Garcia, GB
- MM2

**PRODUCTION**
- Anniston Army Depot, AL
- Lima, OH
- London, Ontario, CA

**BATTLE DAMAGE REPAIR**
- Anniston Army Depot, AL
- Qatar

**RESET FACILITIES**
- Anniston Army Depot, AL
- Fort Lewis, WA
- Qatar
Priorities

Production:
• 292 DVH (Sep/Oct Award)
• NBCRV FRP in Dec (168 additional)

Fielding:
• DVH (ongoing)
• 8th BDE (FY12)
• 9th BDE (FY13)

Sustainment:
• Blue to Green
• Reset (OEF vehicles @ ANAD, FY12)
• BDAR (ongoing @ ANAD / Qatar)

Upgrade:
• ECP (Network) in process
• Recap (planning in process)
Stryker Transition to Organic Maintenance Support

Supply Support
- Garrison units transition in the beginning of FY12
- Parts flow through AWCF after transition

Maintenance Support
- Brigades began transitioning in FY08
- Production-8 variants will complete transition to organic unscheduled support in FY12
- MGS and NBCRV will retain unscheduled service support
- In SBCTs/HBCTs:
  - MGS TBD
  - NBCRV until 94F are trained, target FY13
- In Chemical Companies:
  - Until an MTOE change adds 94F to chemical companies
- Units retain 4 FSR / BDE post transition, retaining CLS mechanics for scheduled services

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<th>Unit</th>
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<th>FY11</th>
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CLS for ALL Variants | MGS and/or NBCRV CLS | Organic/Ktr Hybrid

Our Mission is Our Warfighters’ Future

Distribution Statement A: Approved for public release; distribution is unlimited
Stryker Opportunities for Industry and Challenges

- **Industry Potential:**
  - GDLS Supplier/Sub-Contractor
  - Weight Reduction/Saving Alternatives
  - Production of A-kits (mounting/attachment hardware) for DVH kits
  - Survivability kit refurbishment (e.g., platt swing mounts)
  - Packaging for selected assemblies (e.g., suspension items)
  - Facilities maintenance/other logistics support for Stryker facilities in US and Qatar
  - Recurring Stryker Unique Sustainment Item Procurements (e.g. kits, brackets, metal plating, and cables)

- **Communications and Net Readiness:**
  - C2 Technologies, Smart Display Commonality, Modular Intra –Vehicle Network
    - Situational Awareness: Out of Hatch capabilities, Video recording, 360 SA
  - Integrate C4ISR Systems into Stryker Platforms– Technology Capability Integration Solutions
    - Compliance with Net-centric Operations and Warfare Standards
    - IDE (Integrated Digital Environment) -
      - The IDE is an integral part of Stryker becoming part of the Army Net-Centric Data enterprise. IDE will be implemented using ANCDS technologies and architectures.
    - Robust Network Capability (voice – data – video) enabling communications for line of sight or beyond line of sight
    - Execute Tactical Network Operations to expand and extend transport network based on operational needs

- **Supportability:**
  - Continuous/cost-saving Improvement to support the FOV
The Need to Upgrade

<table>
<thead>
<tr>
<th>SPACE</th>
<th>WEIGHT</th>
<th>POWER</th>
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<tbody>
<tr>
<td>• Multiple Appliqué solutions added; “Scaleable / Kitable Concept” limited</td>
<td>• Kits required to address threats</td>
<td>• OIF kit loads require some systems to be turned off</td>
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<td>• Kits create both interior &amp; exterior challenges for each carrier variant</td>
<td>• IED, RPG, EFP, Sniper, etc</td>
<td>• Current Power Generation cannot meet expected future loads</td>
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<tr>
<td>• CREW, GSS/MSS, Armor Upgrades</td>
<td>• Only select Kits can be applied</td>
<td>• Silent watch capability impacted</td>
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<td>• Additional displays/screens</td>
<td>• Deployed configuration weighs more than planned</td>
<td>• Excess heat impacts both onboard electronics and Soldier’s effectiveness</td>
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<td>• 2nd/3rd order effects include weight and power</td>
<td>• Limit Mobility</td>
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Current Space, Weight, and Power Capacity Shortfalls require Upgrades to Stryker FoV
Stryker FoV C4ISR Integration Timeline

Upgrades...
- Digitization?

<table>
<thead>
<tr>
<th>Year</th>
<th>Projects</th>
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<tbody>
<tr>
<td>2011</td>
<td>VRC 103 &amp; 104</td>
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<td>2012</td>
<td>Boomerang</td>
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<td>2013</td>
<td>CS 11-12 OoC (JCR)</td>
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<td>2014</td>
<td>V1.0 - V2.4</td>
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<td>2015</td>
<td>V1.0 V1.1 V1.2 V1.3 V1.4</td>
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<td>2016</td>
<td>V2.0 V2.4</td>
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<td>2017+</td>
<td>2017+</td>
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--funded
- Partial Funding
- Unfunded

- JTRS
- Intra-Vehicle Network
- WIN-T INC 3
- Nett Warrior
- Duke TI
- WIN-T INC 2
- CS 13-14
- SA OoH
- OSRVT (Rover 6)
- 360 SA
- CREW V2 Relocation/V3
- JBC-P

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Stryker Power Demand Growth over 10 years (CV)

- Power demand has grown ~30 amps per year since program inception.
- Current C4 roadmap projections are on track to increase that historical rate.
- Stryker CV already cannot power all installed systems at the same time.

ECP Proposal provides 1,000 amps - covers C4 roadmap to 2017 - plus ~10 years of growth
Potential Stryker ECP Technologies

**GAP: Network Enabled/Protection**
- Electrical System
  - Increase electrical power
  - Battery and Power management
- Integrated C4 upgrade
- Centralized processing with data and video networks
- MILS network
- GSS/MSS integration
- Multi-functional Displays
- Enhanced embedded training

**GAP: Mobility**
- Suspension
  - 60K w/semi-active suspension
  - Improved Mobility

**GAP: Mobility/Protection**
- Power Train Upgrade
  - 450HP engine
  - Heating/Cooling System
  - Parking Brake
- 450HP engine
- Heating/Cooling System
- Parking Brake

**GAP: Protection**
- Increased IED/Mine protection (e.g. DVH)
- Energy Attenuating seats

**GAP: Lethality/Protection**
- RWS Upgrades
  - Javelin
  - Far target/slew to cue
- 360 SA
- Gunshot detection
- Color day sight/display
- Reduced trigger delay/gun tube stabilization
- Under armor 50 cal
- Improved 105MM ammo protection

**Potential ECP Technologies**
- Not being pursued under ECPs

**MGS Long Term Deficiencies**
- Under armor 50 cal
- Improved 105MM ammo protection
A Notional ECP COA

- Notional schedule above implies a January 2012 start date--decision on size/scope of ECP unlikely before spring of 2012