

Ground Robotics Capabilities Conference and Exhibition

Break Out Session: Combat Support / Combat Service Support Issues Working Group

6 March 2008

Topic Highlights

➤ Topic A (Autonomous Convoy)

Issues:

- ✓ Affordability
- ✓ Systems Integration to legacy equipment & process
- ✓ Operations in all environments (complex and dynamic)
- ✓ Trust in automation / robotics (reliability)
- ✓ Secure and reliable communication in all environments
- ✓ Legal and regulatory constraints / liability

Potential Resolution of Issues:

- ✓ Use of COTS
- ✓ Lower cost sensors
- ✓ System with open architecture – ability to Plug & Play
- ✓ Automation ready- “fly by wire”
- ✓ Collaborations (industry and user)
- ✓ Engineering reliability in system
- ✓ Experience / Exposure to robots (Testing / Training in and to required environment)
- ✓ Communication independent solution

Topic Highlights

➤ Topic B (User Assist Technology)

Issues:

- ✓ Power
- ✓ Affordability
- ✓ Systems Integration to CSS processes & their execution (info systems, size, vehicles)
- ✓ Operations in all environments (complex and dynamic)
- ✓ Trust in automation / robotics (reliability)
- ✓ Soldier safety concerns / liability

Potential Resolution of Issues:

- ✓ Collaborations (industry and user)
- ✓ Optimizing power management and energy efficiency
- ✓ Lower cost sensors
- ✓ System with open architecture – ability to Plug & Play
- ✓ Engineering reliability in system
- ✓ Experience / Exposure to robots (Testing / Training in and to required environment)

QUESTIONS?