

Supporting Product Manager Tactical Operation Centers
and the Warfighter

The Northrop Grumman Team



- Integration Support
- Engineering Support
- Electromagnetic Interference and Compatibility Mitigation

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- Program Management
- Integrated Logistic Support
- Safety
- Systems Engineering and Design
- Integration
- Product Assurance
- Test
- Systems Integration
- Configuration Management



- Production Command Center Systems
- Audio Visual
- Integration



- Shelters
- Shelter Design Support



- Communications Technology
- Secure Wireless LAN



- Systems Engineering Support



- Electromagnetic Interference and Compatibility Testing
- Test Support



SANMINA-SCI

- Intercom Technology



- Integrated Logistic Support
- New Equipment Training



- Test Support
- Integration

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DEFINING THE FUTURE

Command Post Platform



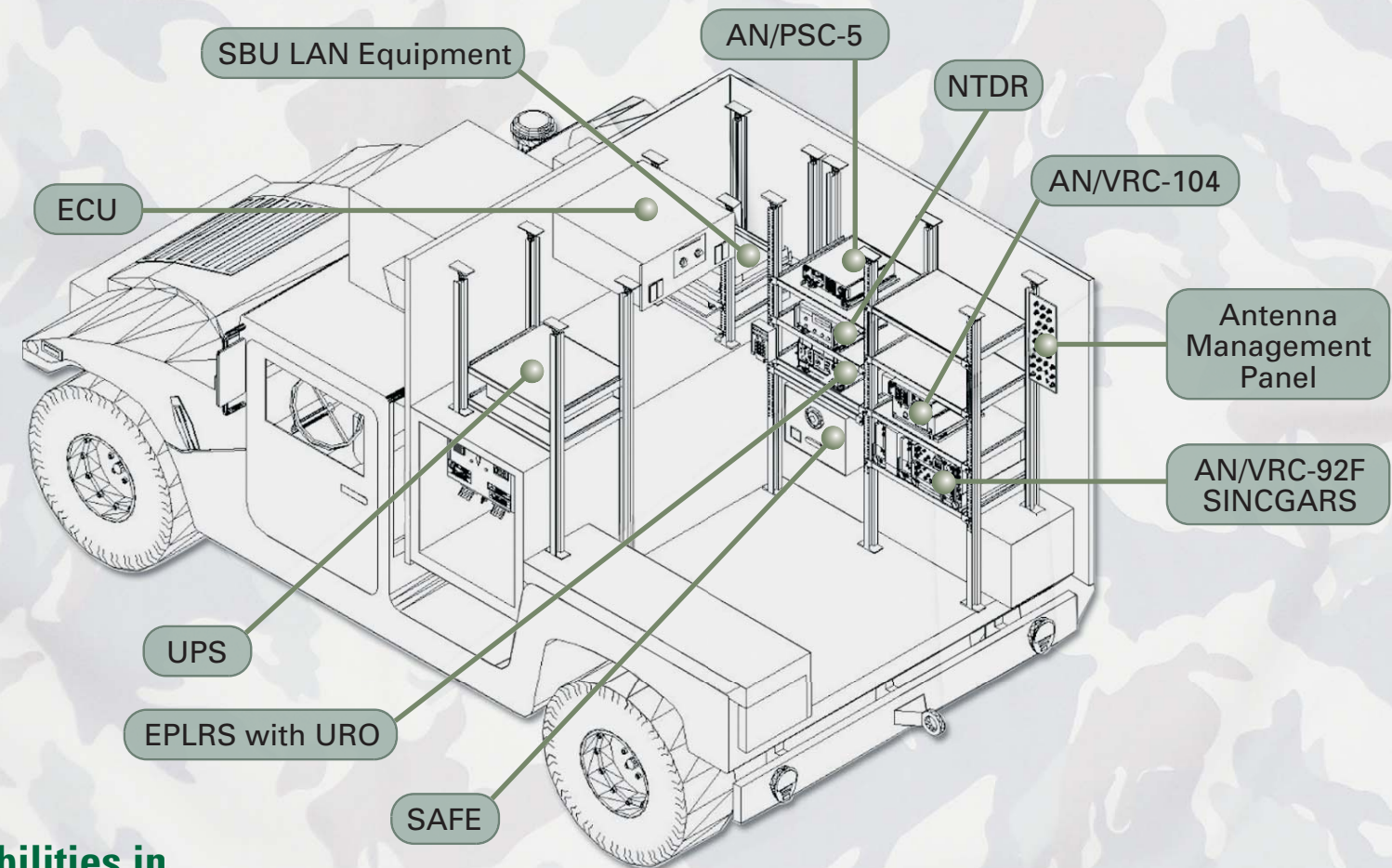
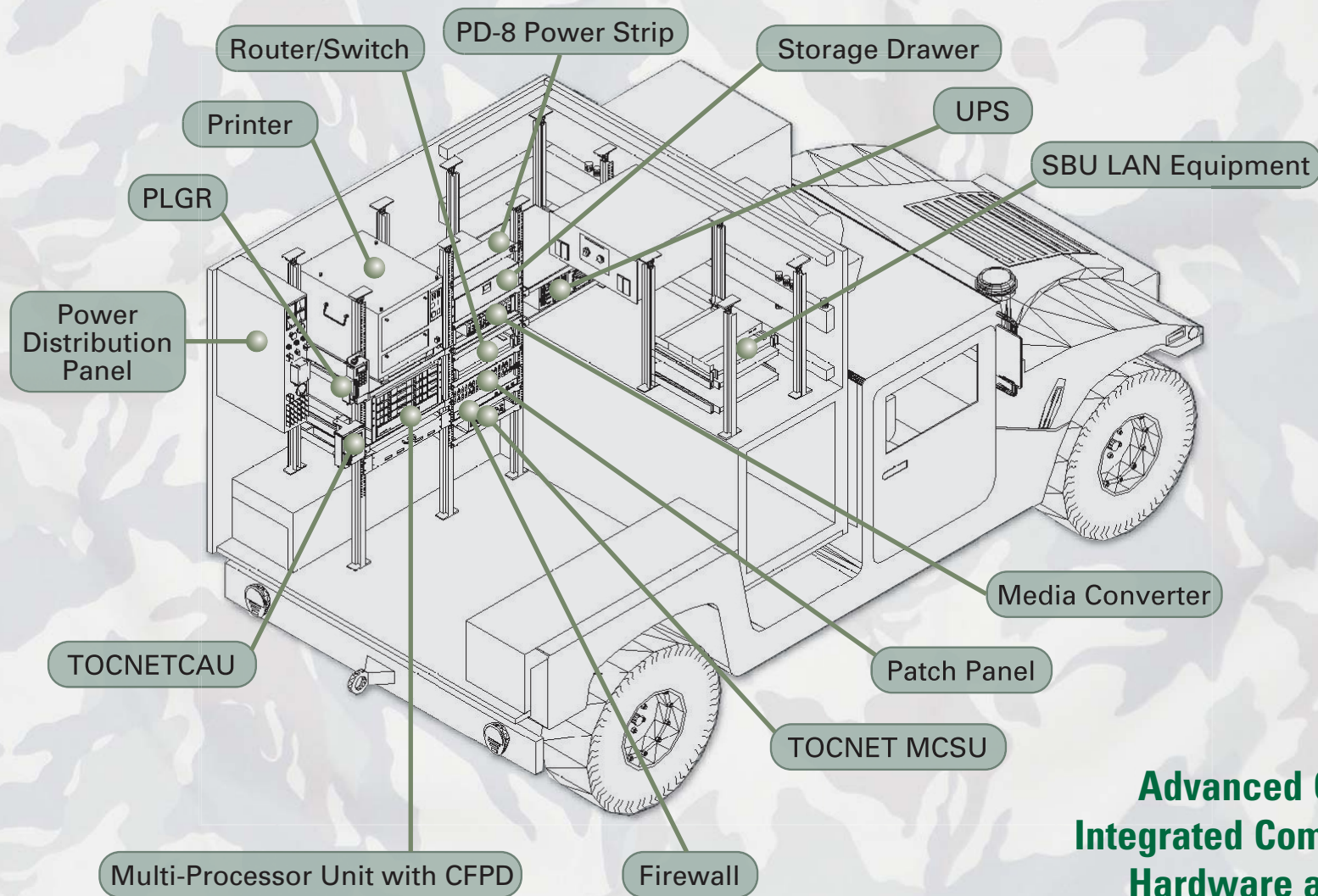
Northrop Grumman is building THE Army's Command Post Platform

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RS000004

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Advanced Capabilities in Integrated Command and Control Hardware and Technology

Army CPP Features

- ✓ Integrated solutions for command and control (C2), not just piece-parts
- ✓ Designed to satisfy Army requirements
- ✓ Building block design provides flexibility to support all echelons
- ✓ Modular approach increases supportability
- ✓ Single platform hosts multiple command, control, communication and computer (C4) capabilities
- ✓ Smaller footprint with more C4 functionality

Information dominance is the key to winning on the 21st century battlefield. That is why today's Army demands command posts that are technologically superior and able to meet operational needs with reliable situational awareness for ensured mission success.

Pioneering Innovation

Northrop Grumman has assembled a world-class team to provide the commonality and performance required by the Army Command Post Platforms. The company's innovative solutions in this arena are paving the way for the Army's success in executing its digitization and transformation strategies for smaller, lighter and more agile command centers. Designed for reduced size and complexity, their command information centers improve mobility and increase

system reliability, availability and maintainability. Northrop Grumman's expertise in command post development and battlefield software has made it the industry leader in configuring command posts to satisfy Army needs at all echelons from company to corps – including joint, coalition, modular brigade, and transition to future force.

Northrop Grumman – The Premier Developer of Command Post Systems

Northrop Grumman delivers integrated digital command posts that give Army commanders the tools needed to achieve information dominance. The company's technological solutions reduce size and complexity, while providing the functionality that commanders require within the battlefield environment.

Since delivering the Army's first truly digital integrated command center in 1994, Northrop Grumman has continued to advance the design and functionality of Army automated command posts. It provides warfighters from company to echelons above corps with standard, net-centric, and fully integrated command and control platforms/shelters, where they execute battle command, maintain situational awareness, and make decisions based on objective real-time data.

Northrop Grumman's commonality of design modules integrates into a variety of platforms, including fixed buildings, tracks, tents, shelters, vehicles and man-portable cases. Vehicles include the family of HMMWVs, towed trailers and tracks. Mobile shelters include rigid wall shelters, Large SICPS Shelters,

Mobile Expandable Container Camp and Modular Extendible Rigid Wall Shelter. Capabilities are provided in rack-mountable and transit case systems that allow functional capabilities to be moved from platform to platform.

Real-Time Battlefield Visualization

Command and staff personnel are connected with geographically dispersed databases and remote sensors using digital data links to create and display precise visualization of three-dimensional ground and air battlefield environments. This design supports commanders in achieving information dominance with a real-time presentation of the battlefield, access to remote information archives and near-instant exchange of command and control information.

Unparalleled Command Post Experience and Innovation

Northrop Grumman pioneers leading-edge solutions that support the Army's transformation. Its innovations for command posts include:

- ✓ Integrated voice, video and data over wireless LANs in 1998
- ✓ Integrated voice, video and data on a single, fiber-optic ring in 1999
- ✓ IP-based phones and intercom systems and video distribution in 2000
- ✓ Radio access, three-way multi-line calling over software phones and wireless hand-held situational awareness in 2001
- ✓ Shelter packaging that reduces size and increases agility in 2002

In 2003, Northrop Grumman was recognized for its ability to insert key command, control and communications technologies during combat operations on the move during Operation Iraqi Freedom.