Electronic and Mission Systems

Boeing Networks, Space, and Security

Small Business Workshop
Bob Tamaru

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Where We Fit In Boeing

Boeing Military Aircraft
- AEW&C
- C-17
- P-8A
- Global Mobility Systems
- USAF Tanker
- Global Strike Systems
- Weapons
- Rotorcraft Systems
- Unmanned Airborne Systems

Network & Space Systems
- Satellites Programs
- ISS
- Space Exploration
- Strategic Missile & Defense Systems
- Avenger
- GMD
- Proprietary
- Network and Tactical Systems
- Airborne ISR
- Naval ISR
- FAB-3
- KGL-M
- Current Force
- XMeritus
- NCS
- Information Solutions

Global Services & Support
- Alsalam
- Logistics C2
- Maintenance, Modifications & Upgrades
- Advanced Global Services & Support
- Training Systems and Services
- Defense & Government Service
- Integrated Logistics

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Business Environment

Domestic budget constraints

- Strong competitors
- Global financial challenges
- Customer modernization needs
- Shifting threats and priorities
- Strong suppliers
- International opportunities
- Strong backlog + active pursuits

 productos representados son sujetos a controles de exportación de los EE.UU.

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Argon designs, develops, and deploys:

- Sensors and countermeasures
- Information operation and electronic attack systems
- Communication systems and networks
- Geolocation systems
- Navigation systems
- Integrated net enabled systems with the above capabilities

These systems allow users to:

- Find, fix, track, target, engage and assess threats
- Develop situational awareness and understanding
- Deliver intelligence to support critical decisions
- Deny understanding of the environment to our enemies

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Core Capabilities

Acoustic Sensing and Signals

Information Operations

C2/Cyber

Threat Simulation

Signals Intelligence

Imaging Systems

Tactical Comms and Networking

Electronic Support Measures

Services

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DRT systems allow tactical users to be aware of their surroundings and to directly engage high-value targets.

**DRT products:**
- Are rugged, low-power and suitable for tactical use
- Scale from hand-held to fixed-base operations
- Are in use world-wide by military, intelligence, homeland security and law enforcement agencies
- Over 4,000 have been shipped

**These products allow users to:**
- Survey, target, monitor, locate, interrogate and disrupt any of over 30 modes of modern wireless communications
- Perform these missions with a single piece of equipment
- Deliver intelligence, threat warning, force protection and target tracking
- Disrupt the coordination or triggering of threat activities

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N&TS’ provides highly integrated network, communication, mission command and air defense solutions that “connect and protect” US and allied soldiers

N&TS designs, develops and provides:

• Network Solutions
• Tactical Line of Sight Communications Systems
• Beyond Line of Sight Communication Systems
• Tactical Mission Command Solutions
• C4ISR Systems Engineering Services
• Ground Vehicles

These systems and solutions allow users to:

• Transport and share mission critical data and commands
• Collaborate across multiple US and coalition mission command echelons
• Make vital mission decisions
• Coordinate and deliver mission effects
ISR and Force Protection

Mission focus is on airborne and ground ISR, and force protection systems.

ISR&FP designs, develops and provides

- Tactical Air ISR Systems
- Grounds ISR and Force Protection Systems
- Integrated sensor solutions
- Multi-INT payloads and solutions
- Motion Intelligence solutions
- Intelligence Processing, Exploitation and Dissemination solutions

These systems and solutions allow users to:

- Improve tactical situational awareness
- Increase actionable intelligence
- Force multiply ISR capabilities at the tactical edge
- Accelerate decisive actions
- Heighten force protection and precision of mission effects
Tactical ISR Needs

- Reduced Size Weight and Power!
- Ergonomics
- Maintainability
- Reliability

Capabilities Sought

- Sensor Payloads
  - Wide Area Persistent Surveillance
  - Phased Arrays
  - Novel antennas and apertures
  - EO/IR
  - Multispectral
  - LIDAR/LADAR
  - RADAR
  - Acoustic Sensors
  - Magnetometers/Gradiometers

- Processing and Distribution
  - High performance computing
  - GPUs
  - FPGAs
  - High performance A/D’s and D/A’s
  - Rugged enclosures
  - Power amplifiers

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Tactical Application Needs

Capabilities Sought

- Recognition / identification techniques
- Tracker algorithms
- Detection
- Biometrics
- Distributed collaboration and analysis
- Modeling and simulation
- Wideband recorders
- Cross Domain solutions

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Navigation / Geolocation Needs

Capabilities Sought
- Inertial Measurement Units (IMUs)
- Visualization
- RFIDs and tracking devices
- Time synchronization
- Calibration
- Atmospheric modeling
- Multipath mitigation
- Adaptive interference suppression

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Supportability Needs

Capabilities Sought

• Condition Based Maintenance
• Strain gauges
• Health monitoring
• Automated test equipment
• Failure analysis
• Power Technologies
• High performance batteries
• Energy harvesting
• Fuel cells
• Packaging
• Cooling technologies
• Enhanced survivability

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Tactical Communication Needs

Capabilities Sought

- Affordable antenna solutions
- Bandwidth and topology management solutions
- Cognitive / Network Management technology
- Waveform technology
- Multi-cast routing protocols
- Tactical Radio / Gateway technologies

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BLOS Communication Needs

Capabilities Sought

- Phased array antenna technology
- Modem technology
- Waveform technology
- Multi-cast routing protocols
- Tactical Radio / Gateway technologies
- Simulation tools for network data, topology, and security layers

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Mission Command Needs

Capabilities Sought

- Collaboration technology
- Display / recognition technology
- Tactical cross domain / encryption solutions
- Tactical video and mission “play-back” solutions
- Level 1 & 2 data fusion technology and solutions
- Decision aids and mission effectiveness solutions
- Air tasking order and replanning tool
Soldier Usability Needs

Capabilities Sought

- Health monitoring
- User interface modalities
- Natural user interface technology
- Tactical situational awareness
- Noise suppression
- Simulation
- Augmented reality

Soldiers are saying:

- Make this stuff work together
- Reduce the stuff in/on the platform & soldier
- Difficult to use = won’t get used!
- Provide intuitive systems

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Boeing is looking for:

• Small disadvantaged businesses with affordable, innovative solutions

• Suppliers with R&D or SBIR contracts aligned to capabilities sought

• Suppliers that have established customer intimacy / market access

Please join our team

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