

Technology to the Tactical Edge?

Technology pull...

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Short Term Driving Requirements from Tactical Users of Networks

- **Reach back and reduced footprint**
- **Delivery of real-time services & high bandwidth streaming**
 - Video on-demand – IPTV (DVB-RCS)
 - Voice/VTC
- **IP-convergence**
 - DISN services
 - IP to the fox hole/cockpit
- **Transport/service availability**
- **User Friendly Secure Wireless**

Short Term Driving Requirements from Tactical Users of Networks (Cont.)

- **“Black” transport (or secure use non-dedicated, ubiquitous networks/comms)**
 - Management of “black” transport
 - High Assurance IP Encryption (HAIPE) Key Management
 - Personal Encryption Device (PED) Key Management
- **Support for *Secure Service Oriented Architectures (SOA)* and “Thin SOA”**

Other Technology Trends

- **Mobile Ad Hoc Networks and wireless**
 - Mobile User Objective System (MUOS)
 - Secure WiMax 802.16
- **Future beyond-line-of-sight**
 - e.g., Transformational Communications Satellite System (TSAT)
- **New protocol standards**
 - e.g., Advanced Message Queuing Protocol
- **Bio and/or nano-IT convergence**
- **Infiniband**
- **Quantum Computing**