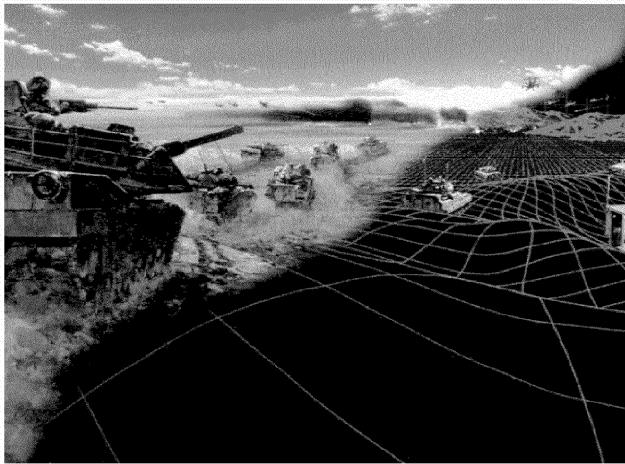
# EXHIBIT 7

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The world's only existing Tactical InterNet Neil Siegel, Vice-President & General Manager TRW Tactical Systems





#### Contents



- Why create a Tactical InterNet?
  - Creating reliable communications for fully automated situational and effective command-and-control
- Battlefield dynamics
  - Including on-the-move operations, and dynamic force compositi
  - The self-forming Tactical InterNet
  - The Tactical InterNet Manager (TIM)
- The role of routing and relaying
- The role of modeling
- The EW / IW aspects of the Tactical InterNet
- Progress to-date, and anticipated capabilities





# Why create a Tactical InterNet?



- U.S. Army experimentation has shown that placing the "right information technology into every combat platform can im the synchronization of forces and improve battlefield decisio making, thereby increasing the lethality and effectiveness of combat team
  - More than double the force's effectiveness, at a small margina
  - Where am I? Where are my buddies? Where is the enemy?
    - » Today's world presents many situations where this would make a c
  - Provides the technical basis for the effective integration of planning, operations, and logistics
    - Servicing tomorrow's digital applications: situational awareness, planning / re-planning, execution monitoring and management, operational status reporting, command-andcontrol, supply status reporting, sensor data integration (from platform sensors, from offplatform sensors), training, layered applications (air defense, fire support, etc.)
    - Provides a "shared language" and shared communications pipe to the entire combat team



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The world's only existing Tactical InterNet

May 1999





### Why create a Tactical InterNet? (continued)



- To provide connectivity superior to that provided by current s
  - "Talk" directly with elements that are not in your local network
    - » Anywhere to anywhere, versus line-of-sight, or just in your local com
  - Share information effectively and quickly across unit and organi boundaries
    - » Within hierarchies
    - » Across common functions
  - Better service

The world's only existing Tactical InterNet

- » Quality of service
- » Speed of service
- » Message completion rate
- » etc.
- » Via dynamic selection of paths, better protocols, etc.
- Better use of bandwidth
  - » For example: using multicast for shared information



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