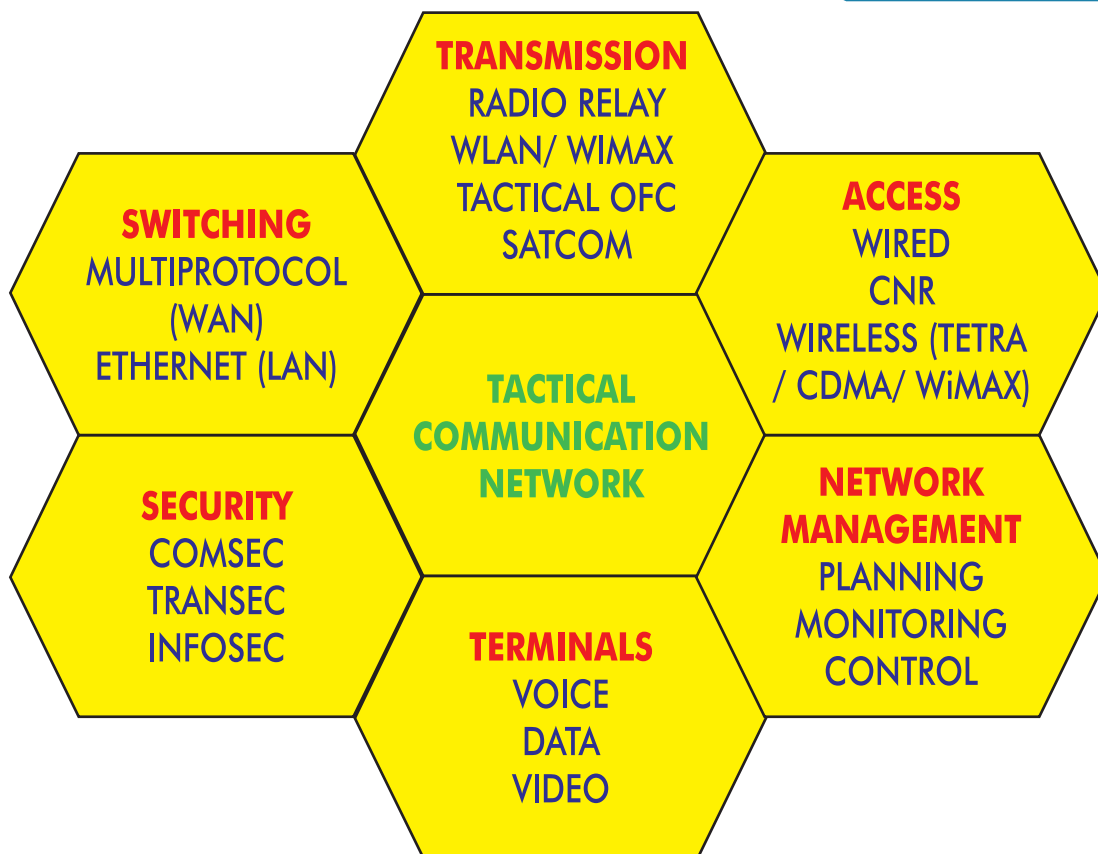




Tactical Communication Systems



Radio Relays:

- Frequency Bands: Band III+ (1350-2690 MHz), Band IV (4400-5000 MHz)
- Data Rate : 2 to 130 Mbps
- Provides backbone links and Access links
- Tactical Deployment
- ECCM: Spectral efficiency, Hardening against Smart Jammers
- Supports migration from legacy systems to IP networks



Military WiMAX (IEEE 802.16d, IEEE 802.16e):

- Frequency Bands: 1.8 GHz, 2.5 GHz, 3.5 GHz, 4.9 GHz and 4.9 - 5.8 GHz bands
- Point-to-multipoint and point-to-point fixed, nomadic and mobile
- Numerous modulations & FEC
- SOFDMA combined with TDMA
- QoS: Unsolicited Grant, Real Time, Non Real Time, Best Effort
- Security: Authentication, AES, Smart antenna algorithm



Software Defined Radios (SDR):

- High data rate: from 64 Kbps up to 6 Mbps
- Frequency Range: V/UHF from 30 MHz to 512 MHz
- ECCM Capabilities: Fast FH , Free Channel search (FCS)
- Multimedia services: Data, Video and Voice
- Ad-hoc configuration avoiding single point of failure

COMBAT NET RADIO (CNR):

- Frequency Range: HF/VHF/UHF from 1.5 to 512 MHz
- High-speed data rate: 72kbps OFDM
- RF Power Output: 1mW to 20 W
- Frequency Hopping: Fixed frequency (FF), secured frequency hopping (HF, VHF and UHF) and DFF, GPS mode (time, position), ALE
- Provide data routing, switching capability and interfacing to tactical analogue and digital networks

Unit Level Switch Board (ULSB):

- Provide switching capabilities for local as well as trunk ports for voice and data at battalion and below in the Indian Army
- Functioning as Local and Transit Switch
- Access switch for PCM based Communication Network
- Compatible with the existing field switches
- 124 ports expandable to 184 ports
- Modular in design and totally non-blocking
- Direct Optical termination for E1 termination
- Network Management terminal
- MMI based on a ruggedized notebook



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