The Modern Army & Tactical Collaboration

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It’s about getting the right information to the right person on the right device at the right time!
“Information + Collaboration”

equals

It’s about using that information in a Collaborative manner in making the best decisions at that time!

“Force Multiplier”
Communication & Collaboration was very different in our recent past...
Communications must have range...
Cisco in Defence

Communications must be agile and mobile.
Communications must be Dependable

Message sent for Reinforcements

General George Custer

Battle of the Little Bighorn Known as Custer’s Last Stance
Communications must be fast
Communications must scale and be accessible in all environments.
Enigma Machine

Communications must be Secure
Fast Forward today…
Today’s Defence Forces rely on the “Power of Information”
More then ever…
The battle landscape has changed…
Video
Collaboration in the Tactical Mobile Operations
Dynamic RF Links
Rapid Topology Changes
Wide Range of Radios
Routing Protocols
Size, Weight, & Power
Distributed Services (QoS, Security)
Vehicle Communication Package Challenges

- Overcrowded Crew Compartments
- Redundant Hardware
- Complex Non-Standard Cabling
- Increased Power Consumption and Cooling costs
- Longer System re-set and Life Cycles Increases Total Costs of Ownership
Challenges with MANet

- Moving nodes with no Fixed Communication infrastructure
- Problems with radio bearers
- Plug ‘n play
- Multiple exits from the mobile cloud
- Multiple radios and overcrowded crew compartments
Introducing Cisco’s Mobile Ready Net
Anything that Drives, Walks, Flies, Sails

Ad Hoc Mobility

Radio Aware Routing

Platforms

Applications & Services

Vision: Mobile Networks of the Future

Enables people to **connect and communicate** how, when and where they want with **no limitations** on location, and **continuously adapts** to their needs **without a reliance** on pre-defined fixed infrastructure.
Networking On The Move

5 years ago
Mobile Stand-alone Router

Today
Embedded Routers
Networking On The Move

Software Routers

Coming soon – “Mid Year 2013!”
OSPFv3 – MANet Extensions
Radio Aware Routing

- IP Communications systems are built with a growing number of radios.
- Radio link conditions (bandwidth and availability) can change frequently.
- To effectively manage these conditions while enforcing routing and QOS policy, routers need visibility into radio conditions.
- DLEP designed to address the problem.
Applications & Services

- Standard Services are included with the Cisco’s IOS. i.e. RAR,
- Applications run on an appliance and included with the same enclosure as ESR:
  - Compliant with Industry standards
  - Reducing SWP-C
  - Complimenting ECO system of all products & apps being used for the mission
Thank you!

Teşekkürler!
Back-up Slides