

Joint force Information Exchange and Data Integrity in a Coalition Environment

Rob Slaven, DSM
L-3 Communication Systems
Australia



“Trust me”



Does not compute...

Come as you are warfare

For a Coalition finding a common cause is hard, speaking one language is harder, whilst using common systems and equipment configurations would seem to be the hardest challenge of them all



The Expeditionary Battlespace



Integration as a stepping stone

The challenge isn't technical in nature, but technical solutions exist to address the issue in the short term given early holistic focus





The hidden threat

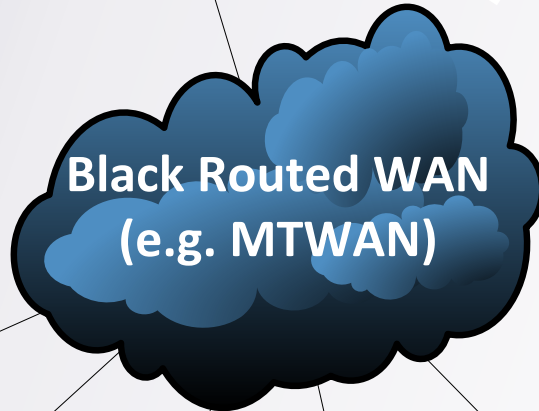
“Every battle is won
before it’s ever
fought”

Sun Tzu

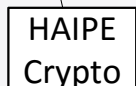
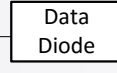




Satcom Links  Terrestrial Links 



TCDL with Embedded Crypto e.g. ROVER, mini-CDL



Black IP

Black IP

Black IP

Black IP

Black IP

Red IP



How to address the problem?

- Internationally agreed interface standards and programming languages are a first step
- Initiation of a cyber secure program environment from project initiation is a necessary step



A Future Vision

- All sensors
- All data
- All weapons
- All bandwidth
- One picture
- One unified response



