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International Defence and Security Technologies Fair
Security Trends
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Cyber Security Challenges in a Federated Environment

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5/20/2015

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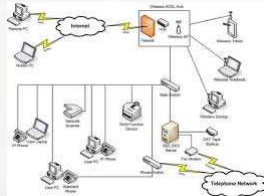


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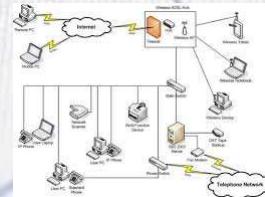
Trend: Federation



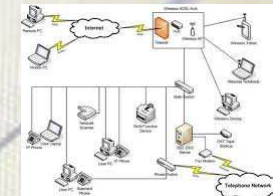
Networking in the old days



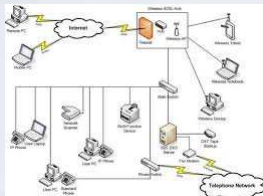
Stand Alone Network



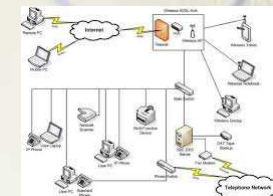
Enkeltstående netværk



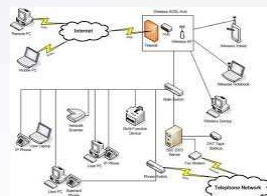
Αυτόνομο Δίκτυο



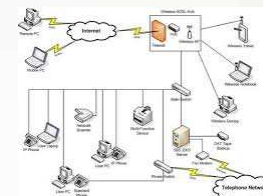
Bağımsız Ağ



Réseau autonome



Alleenstand Network



Niezależne sieci



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Afghanistan Mission Network



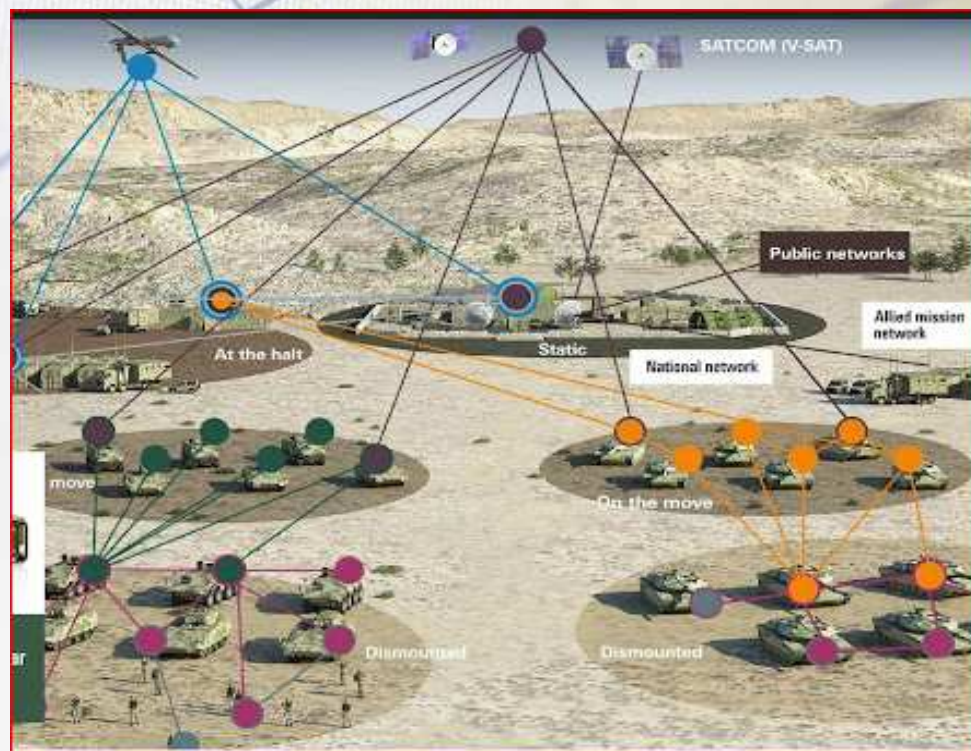
Common Standards
Dedicated National Enclaves
Centralized Network Administration
Same security level



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Federated Mission Networking

- **Federated**
There is no single prime network! Participants commit to common processes and provide materiel
- **Mission**
Operational
Scenario driven
- **Networking** -- interaction of people, processes, and technology to exchange information and/or services
= **connected forces**





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Easier said than done...

- “Barrier-free information sharing”
 - Cyber Security becomes a big challenge
 - Requires barrier-free oversight!
 - Centrally check compliance, respond to incidents, conduct investigations, etc.
 - No easy way





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Cyber Security Challenges

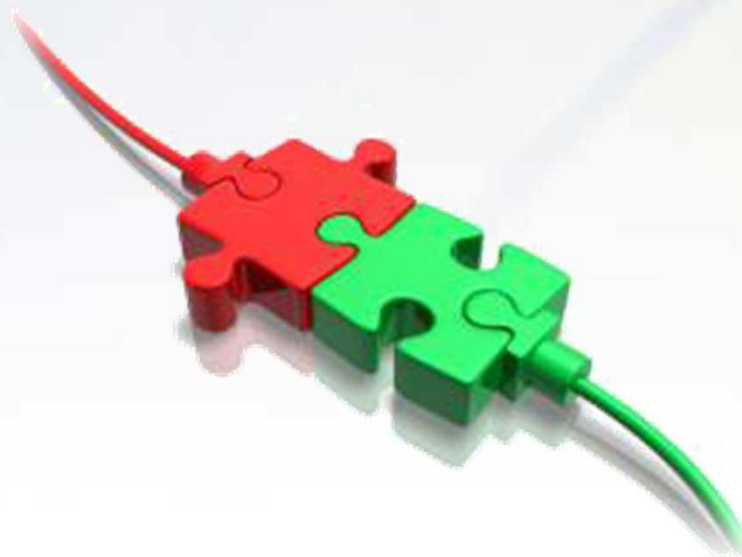
- Enforcing minimum requirements
 - Only as strong as the weakest link!
 - First challenge: To define and agree
 - How to check for continued compliance?



Cyber Security Challenges

Secure Interoperability

- Bring your own equipment fine... but!
- Will they work together in a secure manner?



Cyber Security Challenges

- Conflicting Individual Policies
 - What can I share?
 - What is acceptable?
 - What is not acceptable?
- Agreeing on a common policy





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Cyber Security Challenges

- Information Sharing
 - Reluctance to share incident information
 - Balancing 'need-to-know' with 'responsibility to share'
 - How to control releasability?





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Way towards the Solution

- Development and Adoption of Standards
- Alignment of Cyber Security Policies
- Continuous Education, Training & Exercise
- Collective Increase of Cyber Security Posture

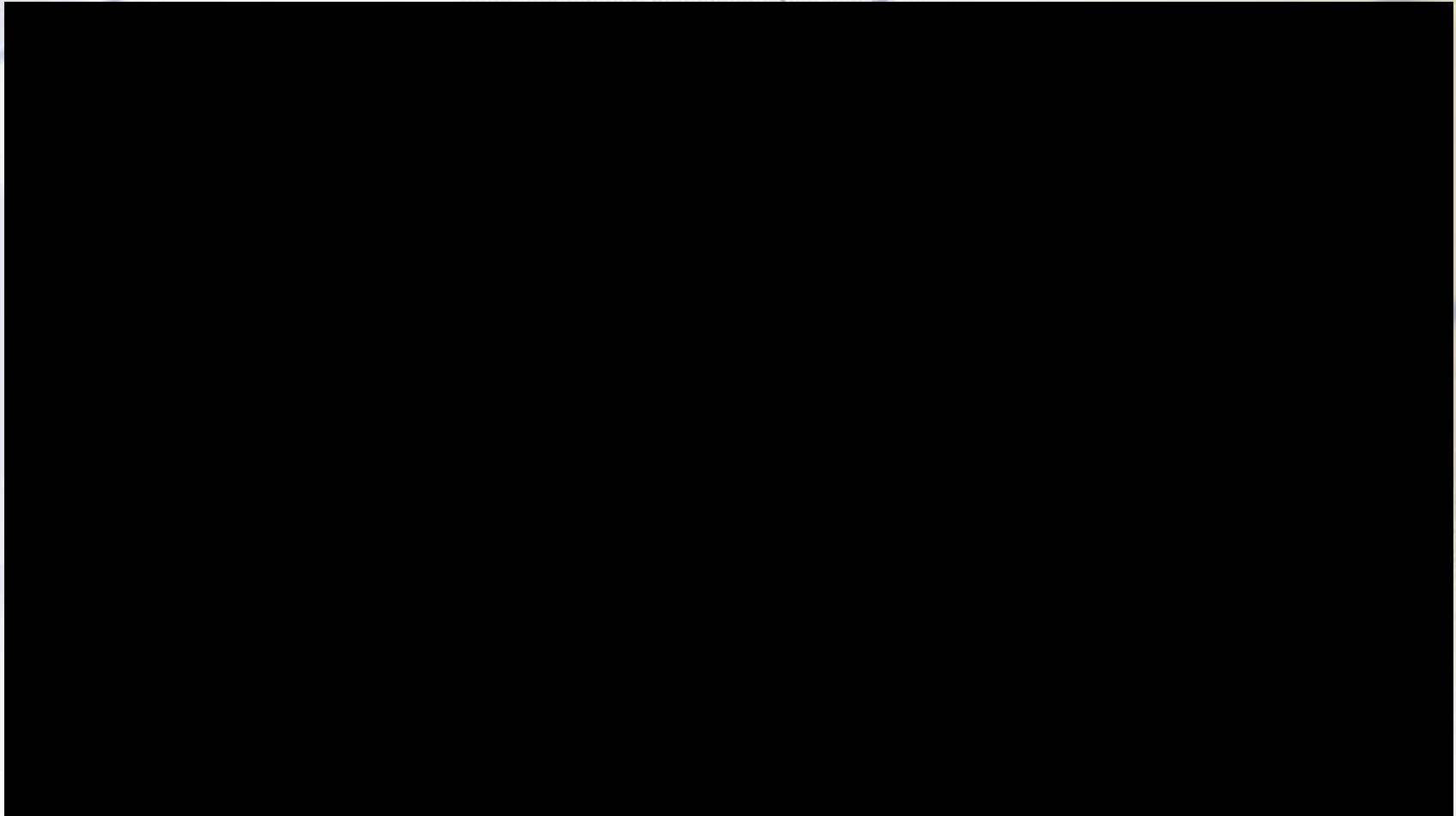
Collaboration to tackle political, operational, and technical challenges

“Never forgetting the human factor”



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One last challenge!





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Questions?