





















What Do Others Call It?

Net-Centric Warfare – U.S.A.

Network-Centric Warfare – U.S.A.

Network-Centric Operations & Warfare – U.S.A.

Network-Centric Capability - NATO

Network-Enabled Capability – United Kingdom

Info-Centric Warfare - France

Networked-Based Defense - Sweden

Knowledge-Based Command & Control – Singapore

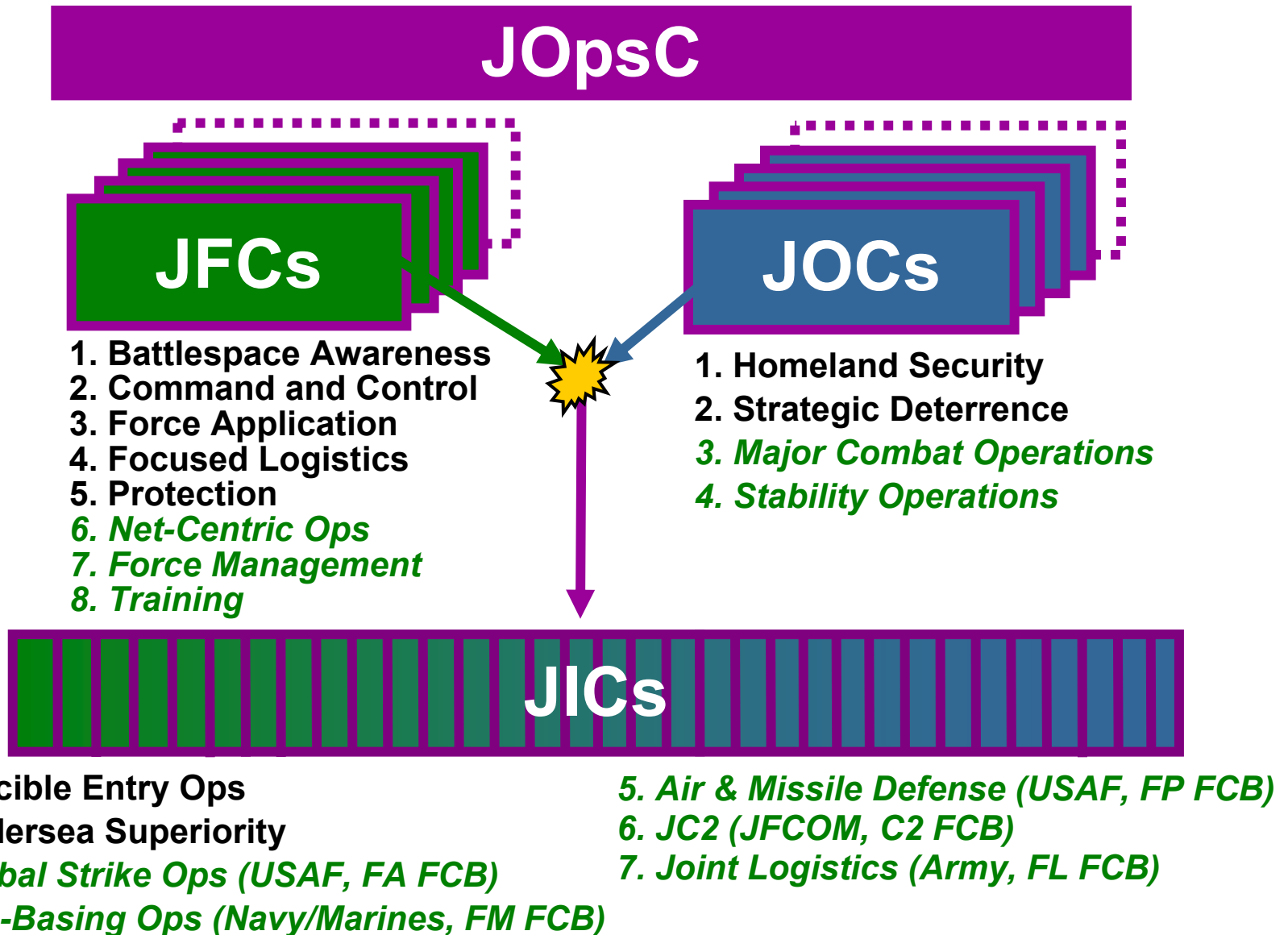
Net-Work Centric Operations – Netherlands

Network-Enabled Warfare - Australia

Connectivity

is What It is All About!

Current Joint Concepts*



*Joint Staff J-7, CDR. Todd Kiefer, September, 2004

The Tenets of NCW

A Robustly Networked Force

Improves

Information Sharing

Information Sharing
and
Collaboration

Enhances

Quality of Information
and
Shared Situational Awareness

Shared Situational Awareness

Enables

Collaboration
and
Self-synchronization

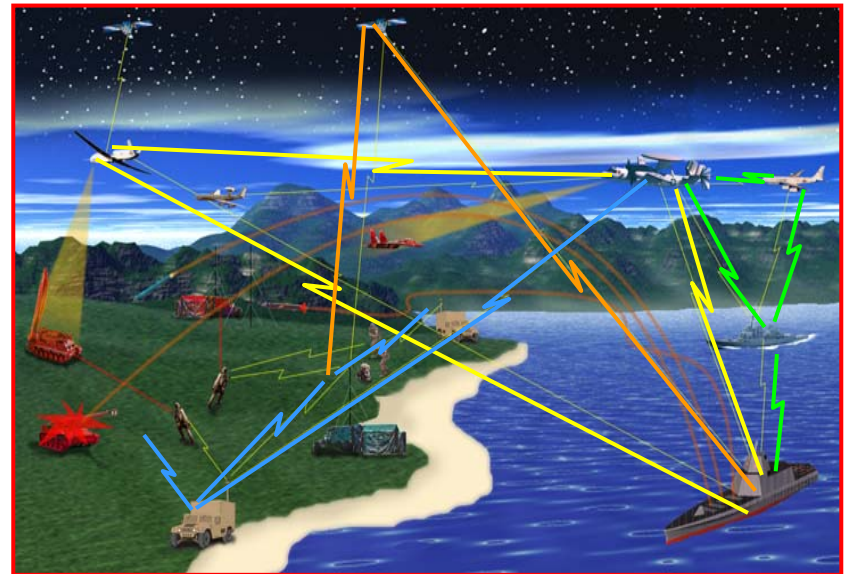
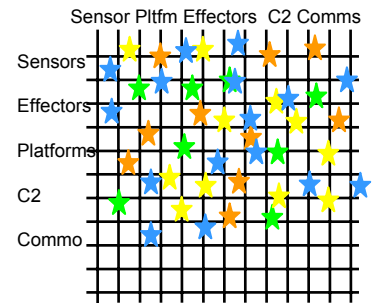
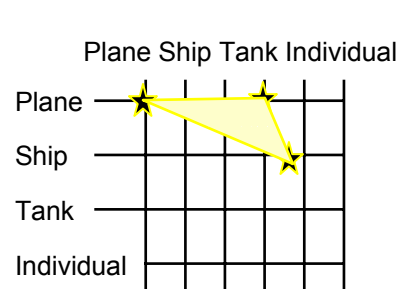
These, in turn, Dramatically Increase *Mission Effectiveness*

Creating Actionable Information

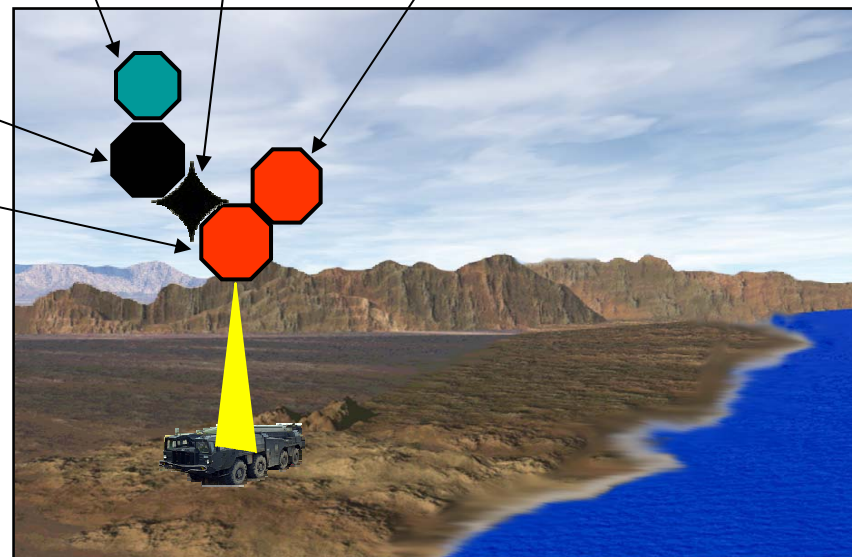
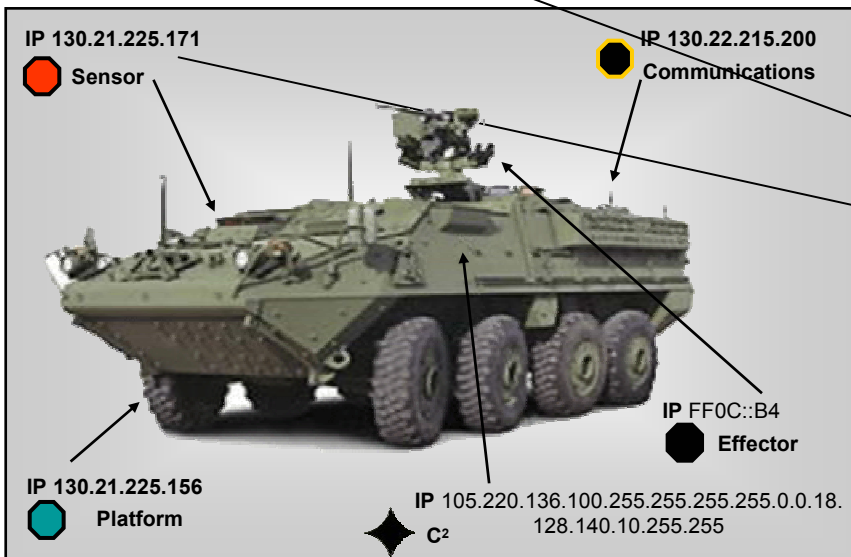
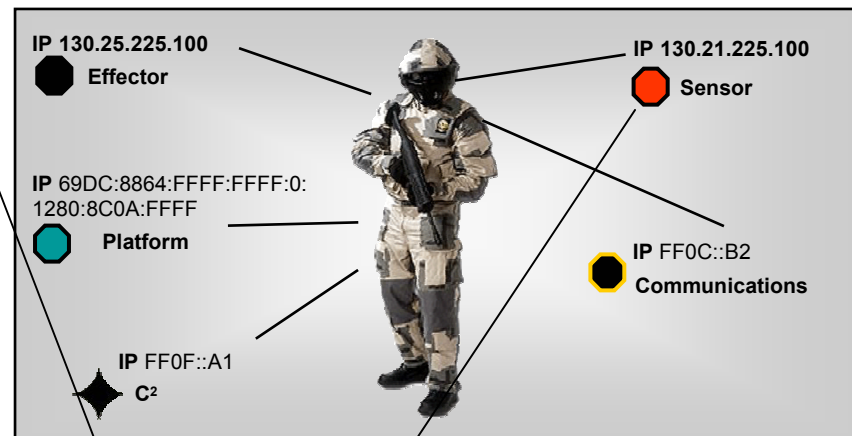
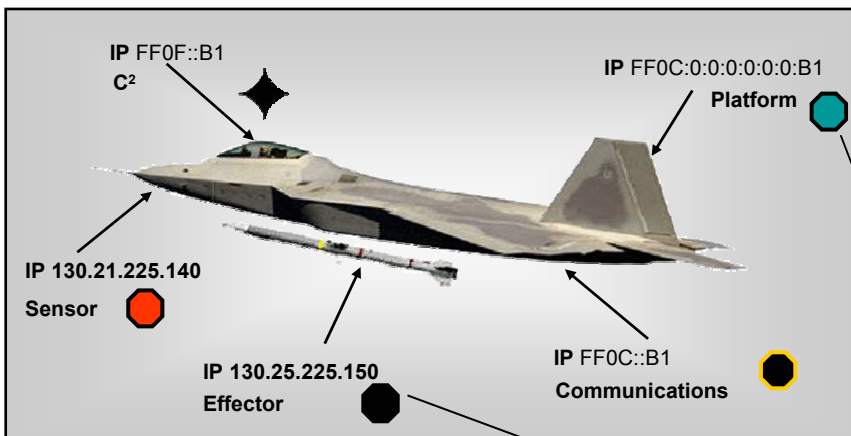
- **Complexity**
 - Expanding number of “netted” systems on an unprecedented scale
 - Multiple architectures
 - Scaling
 - Effects-based capabilities
 - Complex resource allocation

- **Compliance**
 - Joint capabilities processes
 - Systems engineering and requirements flow-down
 - Distributed development
 - Modeling & simulation
 - Testing complexity
 - Account for unexpected behavior

- **Acquisition challenges**
 - Co-evolution & convergence
 - Current system assimilation
 - Asynchronous programmatics
 - Budget pressure



Tying It All Together – Net Centric Operations



Internet analogy – every weapon, sensor & platform has an IP address

Some Take Aways

- **NCW is more about networking than networks**
- **NCW is the military's adaptation to the Information Age**
- **NCW involves the redefinition of command and control**
- **A new vocabulary and a new set of criteria are needed**

