

Headquarters Air Combat Command

Joint Mission Capability Packages: The Future of Joint Combat



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Overview

- **Joint Mission Capability Package (JMCP) – Definition and Purpose**
- **Example: Stryker/F-16C+ JMCP**
- **JMCP Requirements**
- **Building a JMCP**
- **Military Edge Organizations**
- **Campaign of Experimentation**
- **Summary and Conclusion**



JMCP Definition and Purpose

- **A JMCP is a capabilities-based force package composed of fielded weapon systems possessing interoperable information network equipment**
- **Components mitigate each others weaknesses, synergize strengths**
- **JMCP uses interdependencies to increase mission effectiveness**
- **JMCP characteristics promotes the development of a hybrid networked/hierarchical organization**

***May provides a glimpse into a
Military Edge Organization***



Operational JMCP Example

- **Stryker / F-16C+ JMCP**
 - **Fielded Weapon Systems**
 - **Interoperable Network Equipment**



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Stryker / F-16C+ Concept of Operations (CONOPS)

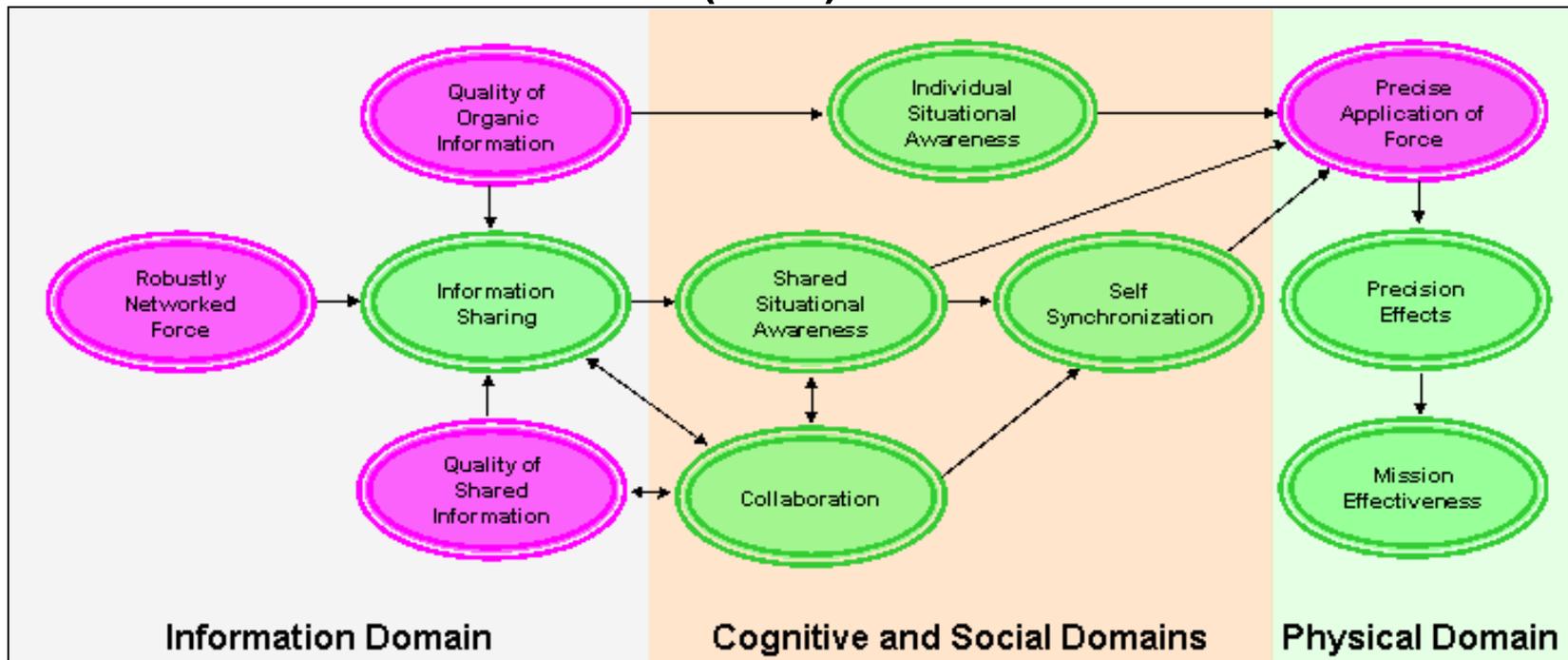
- **The basic task required of this JMCP is to deploy to operational depths and immediately transition to tactical operations through the self-organization of available forces.**
- **Named, paired units will train, alert, and deploy together.**
- **The combined capabilities of this JMCP give the joint commander enormous flexibility to conduct many missions currently unavailable to either system by itself, or even with current doctrinal cooperation methods.**



JMCP Requirements

Derived from the NCW Value Chain* for Combat Operations

1. **Robustly Networked Force:** Interoperable Information Network
2. **Quality Organic/Shared Information:** Imbedded Intelligence, Surveillance, Reconnaissance (ISR)
3. **Precise Application of Force:** Rapid, Precise Joint Fires under Remote Positive Control (RPC)





Building a JMCP*

- 1. Develop CONOPS**
- 2. Determine Command and Control (C2) Approach**
- 3. Develop Organization Structure**
- 4. Develop Information System Structure**
- 5. Develop Personnel, Leadership, Education, etc (DOTMLPF)**

** NCW, 1999*



Develop Organization Structure

- **The Military Edge Organization – Assumptions**
 - **Military hierarchies will remain the standard**
 - **An edge organization will have to exist inside a military hierarchy**
 - **A military edge organization will be a network/hierarchy blend**
- **Characteristics of a Military Edge Organization***
 - **Peer-to-peer relationships, widespread knowledge sharing, low level of supervision, access to networking equipment**
 - **Everyone will be at the edge – a high percentage of forces simultaneously engaged with the enemy**
 - **Those with knowledge will be allowed to make decisions**
 - **Unity of effort more important than unity of command**
 - **Must be equally adept at performing along a spectrum from tight control to self-synchronization (based on assumptions)**

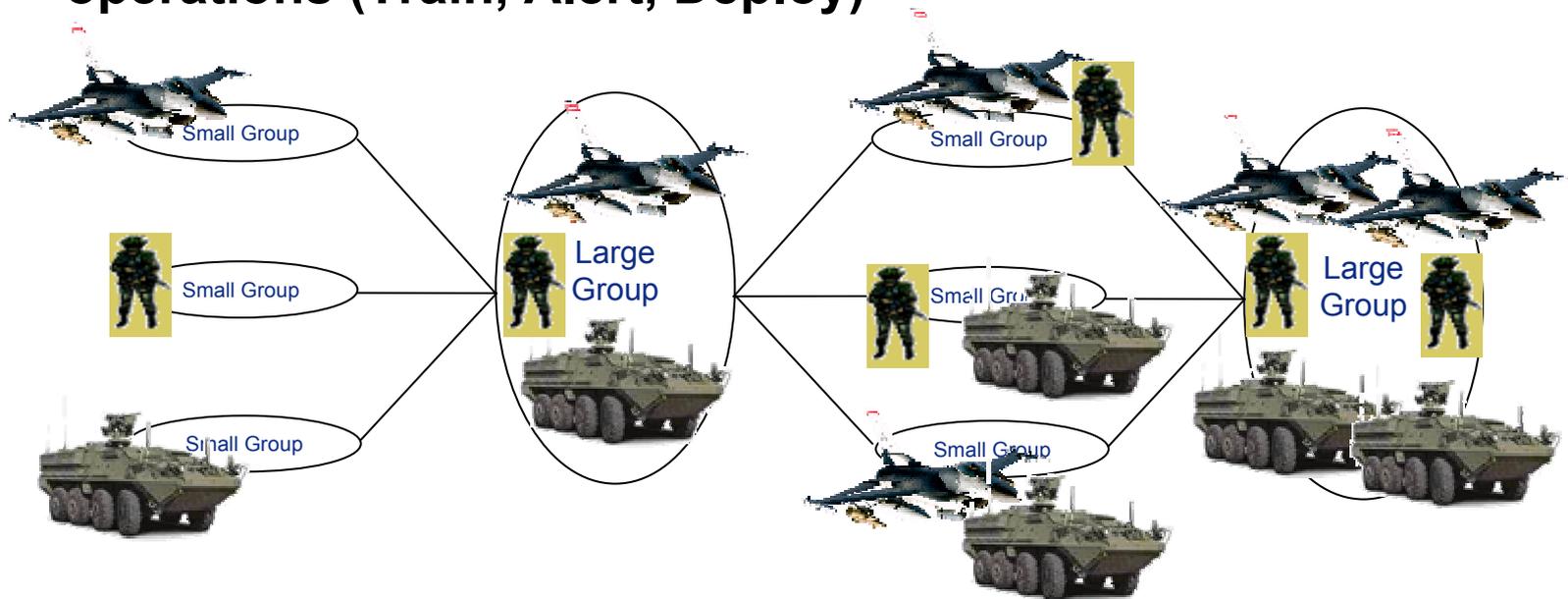
** PTTE, 2003*



JMCP Edge Organization

- **Stryker / F-16C+ JMCP Edge Organization**

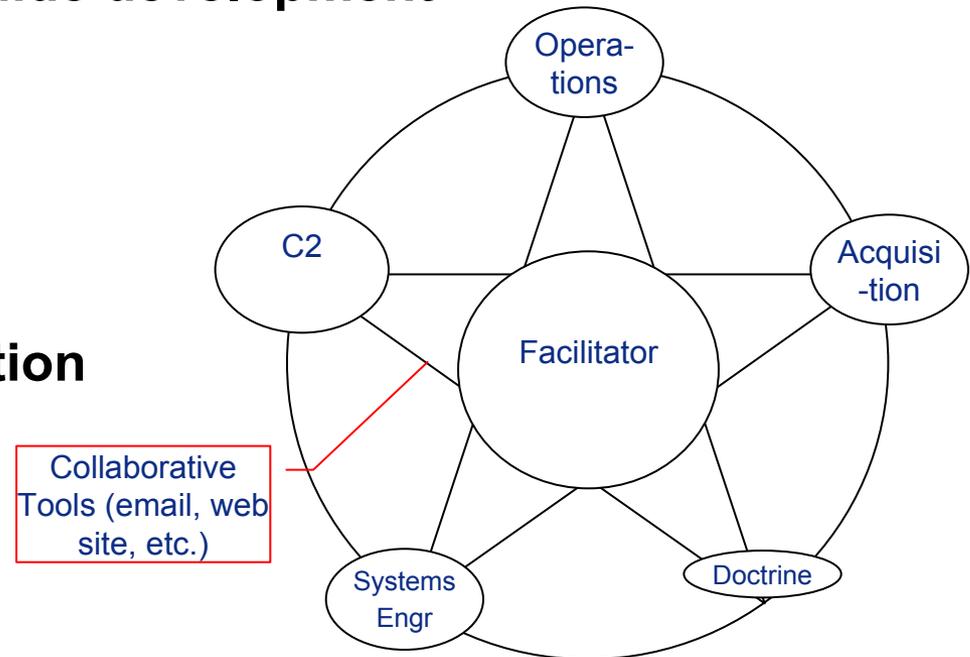
- Multiple hierarchies – individual Services, Joint Force Command
- Virtual Organization – will form within standing hierarchies when brought together and will cease to exist when separated
- Converge-Diverge Model for training, deployment, and tactical operations (Train, Alert, Deploy)





JMCP Edge Organization

- **Stryker / F-16C+ JMCP Development Team**
 - Development Team Organization mirrors JMCP Organization
 - Teams use the Converge-Diverge Model
 - DOTMLPF analysis will guide development
 - Doctrine
 - Organization
 - Training
 - Materiel
 - Leadership and Education
 - Personnel
 - Facilities





JMCP Experimentation

- **Role of Experimentation**
 - **Key tool to investigate innovative organizational structures**
 - **Will enable the JMCP to reach its full potential**
- **“Wildcatting” Method of JMCP Development**
 - **Limited but operationally significant number of weapon systems**
 - **Ultimate Goal – Self-Synchronizing Force**
 - **Process – NCW Maturity Model and Experimentation Campaign**



Summary

- **The Stryker / F-16C+ JMCP is a prototype of the future Joint Force**
 - **The JMCP Organizational Structure will be one example of a Military Edge Organization**
 - **Challenge – Digital Divide: Operational Warfighter is getting smarter at a faster rate than the Tactical Warfighter – hampers efforts at shared awareness and collaboration at the tactical level**
 - **Stryker / F-16C+ JMCP is connected by an interoperable information network – enables shared awareness and collaboration at the tactical level – and may encourage Self-Synchronization and advanced warfighting techniques like Swarming**
 - **Campaign of Experimentation will develop and mature the concept**



Conclusion

- **The Stryker/F-16C+ JMCP will be an operational laboratory for experimentation on edge organizations**
 - will answer questions on self-synchronization, command intent, and command approaches applicable to a swarming force
 - will help refine NCW theory, and advance another step toward the future Joint Force



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