



JOINT MOBILE NETWORK OPERATIONS

JMNO GOSC Overview 13 July 2006

#### UNCLASSIFIED

Col Kavin Kowis, USMC Joint Test Director kavin.kowis@jmno.net

Mr. J.D. Wilson GS-15 Technical Director jeffrey.d.wilson@usmc.mil

Dr. George Nobles Senior Program Manager george.nobles@jmno.net





The lack of joint tactics, techniques, and procedures (TTP) limit the forces' ability to access information resources and network services when crossing network boundaries

#### <u>Issue 1</u> – <u>Network-to-network connectivity</u>

What is the level of network interoperability achieved between different Services at the tactical level by implementing JMNO-developed mobile NetOps joint TTP?

#### <u>Issue 2</u> – <u>User cross-network support</u>

To what extent do JMNO-developed mobile NetOps joint TTP enable a tactical user to access information resources and network services via a different Service's (host) network?



JMNO TTP at the tactical edge:

- Expedite the migration to net-centric operations in the tactical environment
- Improve situational awareness through network connectivity
- Permit command-centric operations on the move
- Provide an expedient network operations solution for high-tempo maneuver warfare

#### "This is MOTHERHOOD. This is important."

LtGen R. Shea, JCS, J-6

# **Scope & Perspective**



# **Independent IP Network Builds**





communicate across service boundaries and to "roam" across the battlefield. Deployed communicators are struggling to meet the need through arduous, ad-hoc coordination.



### Must Do:

Issue 1 Characterization Network-to-Network Connectivity



Issue 2 Characterization User Cross-Network Support



In order to obtain network services three things must occur :

- 1. Connection physical media
- 2. Access command decision
- 3. Authorization verification of Service requirement and identity

These three requirements encompass the two JMNO issues



# **JMNO Issue Description**



#### G/W = Multi-Service distribution node





#### Network access during maneuver

- Provides tactical user expanded network access during maneuver
- Increases maneuver flexibility when crossing Service boundaries
- Reduces network set-up time and complexity during maneuver

### • Joint TTP scalability

- Significantly reduces joint network negotiation time
- Maximizes tactical implementation regardless of hardware
- Extensible to coalition and OGA networks through coalition observation and oversight

#### Network connectivity between Service tactical networks

- Enables greater joint situational awareness
- Improves synchronization of command at the tactical level
- Expedites information access and collaboration between Services

### Extends power of the network down to tactical edge



### JMNO will develop and test a set of TTP which will provide the solutions the tactical user needs to save time, resources, and lives

JMNO is needed NOW!





### For additional information, please contact:

JMNO Joint Test Director Colonel Kavin G. Kowis kavin.kowis@jmno.net Phone 703-432-1646

JMNO JT&E Technical Director

Mr. Jeffery D. Wilson jeffery.d.wilson@usmc.mil Phone 703-432-3921

<u>JMNO JT&E Program Manger</u> George Nobles george.nobles@jmno.net

Phone 703-432-1636