

UNCLASSIFIED

Joint Mobile Network Operations (JMNO)

Phase One Plan



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**Joint Mobile Network Operations
(JMNO)**

Phase One Plan

Joint Mobile Network Operations
Joint Test & Evaluation
Building 3087, Wing D, Ruhl Street
MCB Quantico, VA 22134

Approved: _____

KAVIN KOWIS
Colonel, USMC
Joint Test Director

Date: _____

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Ref: (a) JMNO Charter, 15 Feb 2006
 (b) JMNO Program Test Plan, 15 April 2006

1.0 Situation

1.1 Orientation

Per Ref (a) Joint Mobile Network Operations (JMNO) is chartered for three years to investigate, evaluate, and make recommendations to improve mobile network access and maintain current performance by identifying and developing joint doctrine and recommending Doctrine, Organization, Training, Materiel, Leadership, Personnel, and Facilities (DOTMLP-F) changes. Ref (a) also directs JMNO to form a General Officer Steering Committee (GOSC) as an advisory body to provide a forum for senior-level counsel. GOSC membership will be comprised of representatives from the Services, Joint Staff, Combatant Commanders (COCOMs), Department of Defense (DOD) agencies (as required), and the Deputy Director, Air Warfare (DD, AW). Per ref (b) the JMNO Joint Test and Evaluation (JT&E) is divided into three phases. Figure 1-1 depicts the three phases.

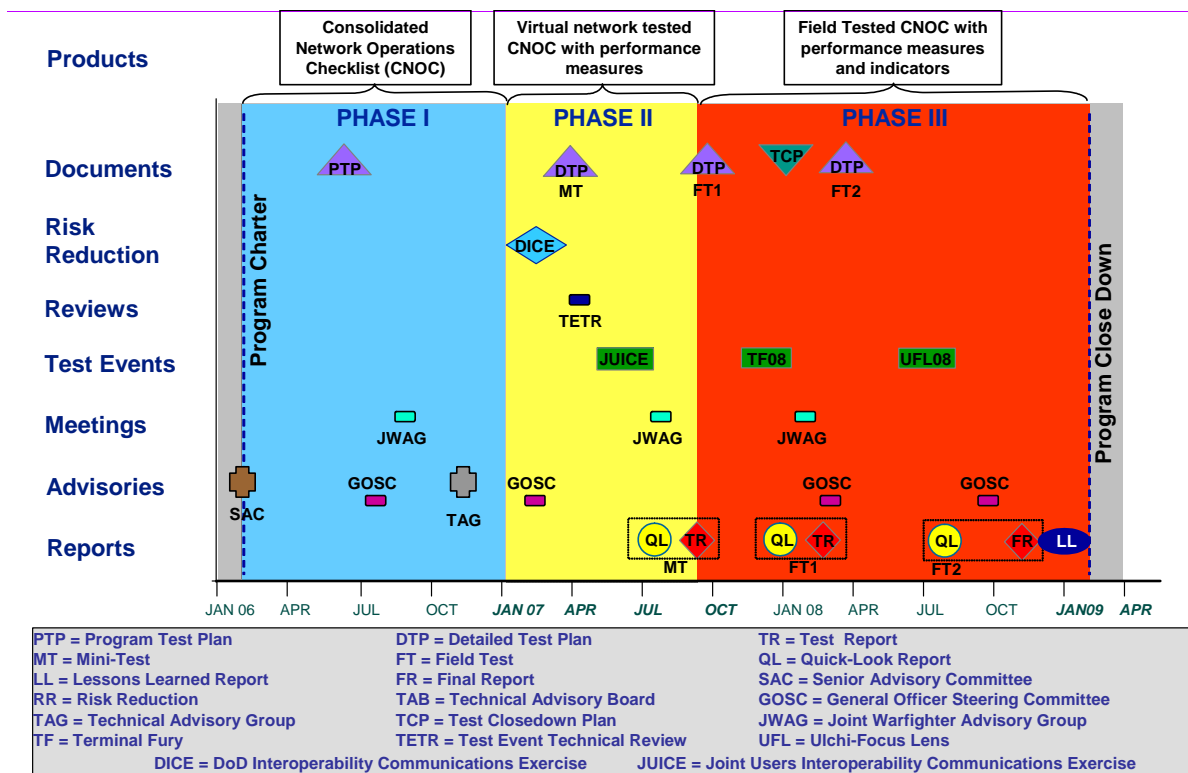


Figure 1-1. JMNO Schedule

1.2 Purpose

The purpose of Phase I is to develop the Consolidated Network Operations Checklist (CNOOC). The CNOOC is the JMNO test article. The CNOOC must be complete in order to proceed to the events of Phase II and beyond. The JMNO Test Concept diagram in Figure 1-2 depicts the relationships among the three phases.

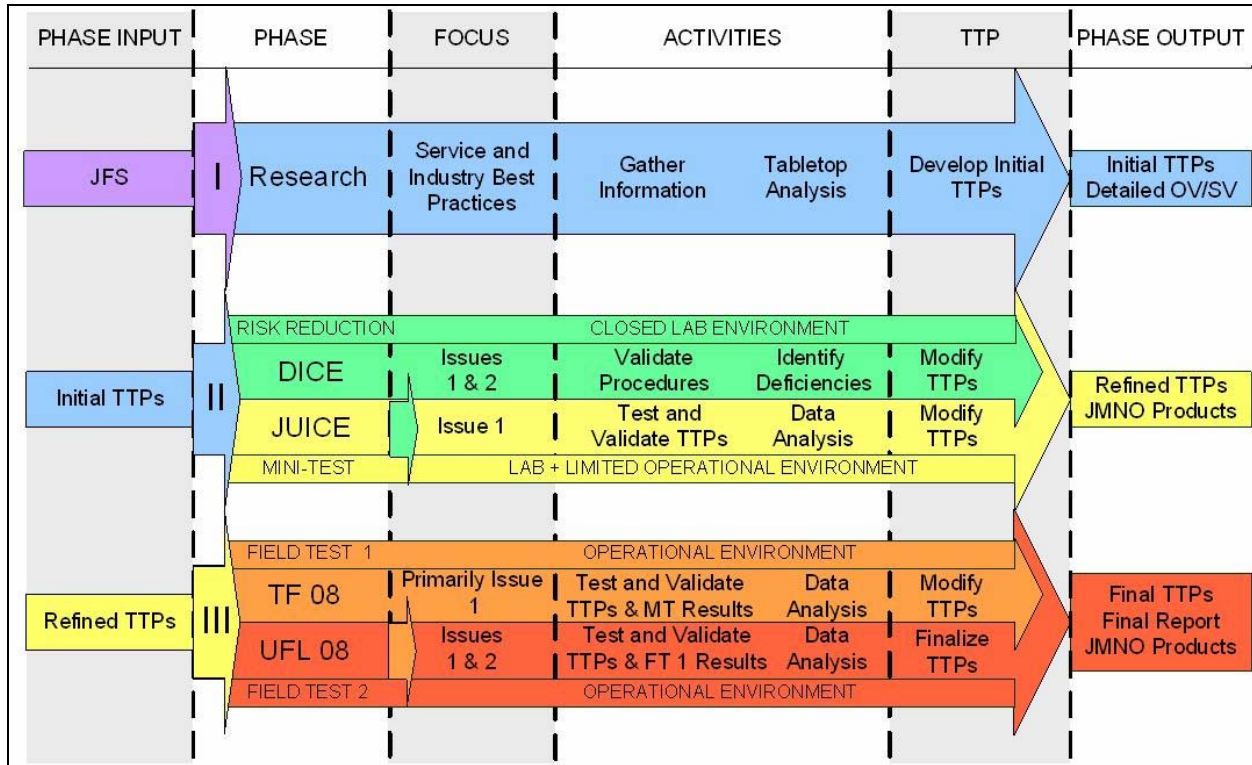


Figure 1-2. JMNO Test Concept

2.0 Mission

Per Ref (a), the JMNO JT&E must develop the test article and provide a report to the JT&E Program Office no later than 1 March 2007. Phase I has four objectives:

2.1 Objective One

Objective one is to identify through research the concepts for mobile NetOps that have been successfully employed by the four services in a joint environment and similar concepts that have been employed by industry and academia (for example, Massachusetts Institute of Technology [MIT] Lincoln Labs).

2.2 Objective Two

Objective two is to develop an initial mobile NetOps joint Tactics, Techniques, and Procedures (TTP). The initial TTP is the Consolidated Network Operations Checklist (CNOC) that will include step-by-step procedures and processes for the access, transfer, and routing of services and information to enable network-to-network connectivity and user cross-network support. The CNOC is viewed as the primary test article for the mini-test and field tests. The CNOC will compile the Services’ best practices for network-to-network connectivity and user cross-network support.

2.3 Objective Three

Objective three is to test and analyze the initial CNOC using the stand-alone JMNO computer lab to simulate the networking environment of each service.

2.4 Objective Four

Objective four is to prepare and deliver the Phase I report to the JT&E Program Office.

3.0 Execution

The JMNO team will perform the Phase I process as depicted in Figure 2-1. The results and products of the major Phase I events will be included sequentially in the Phase I final report.

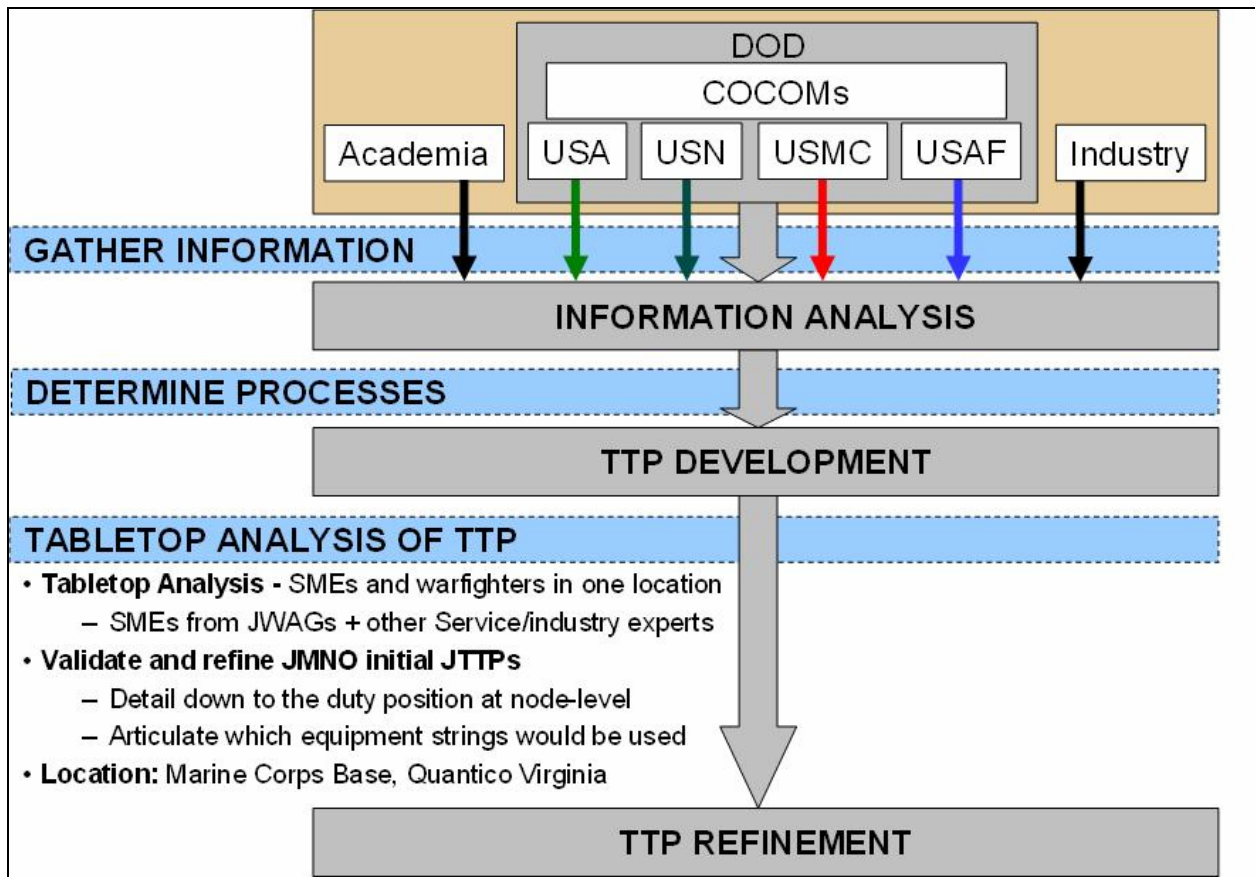


Figure 2-1. Phase I Process

The four objectives of Phase I will be accomplished per Ref (b) by the continuous effort of the JMNO team in the sequential execution of the following major events:

3.1 Develop Research Methodology

Per Ref (a) and Ref (b), JMNO operations and technical research specialists will create a research methodology to gather, store, and analyze data for development of the joint TTP and

CNOC during the April to June 2006 timeframe. This methodology will be briefed to the GOSC for approval.

Research information gathered during conferences, seminars, and specialized COCOM, Service, and agency visits will be used in the development of the initial joint TTP/CNOC test article. All research will be catalogued for retrieval in a JMNO database library.

3.2 Initial GOSC Meeting

By charter, the JMNO JT&E Project will establish a GOSC that collectively represents JMNO's warfighter customers. The JMNO GOSC will provide senior-level guidance and support for JMNO test activities, including but not limited to:

- JMNO test objectives and priorities.
- Test concept.
- Architectures (operational and systems).
- Scenario/venue
- Test products.
- Proposed process enhancements.

The JMNO Joint Test Director (JTD) will brief each GOSC member prior to field tests during the life of the JT&E. This briefing will provide information on the test schedule, concept, goals and objectives, enhancements, expected results, and support required from the GOSC member to conduct the test. Based on this information, GOSC members are expected to provide the JTD with guidance and assistance on any issues that require action of the GOSC member to resolve. In the event consensus does not exist for a specific issue, the GOSC Chairperson may call the issue to a vote in which case majority rule will determine the outcome.

The Phase I GOSC will be held at the Marine Corps Combat Development Center (MCCDC) at MCB Quantico in July 2006. RDML Elizabeth Hight will chair the meeting. JMNO will present the GOSC charter, JMNO overview, and Phase I Plan for GOSC approval. JMNO will send a detailed agenda and read-aheads to all GOSC participants.

3.3 JWAG Meeting

Subject Matter Experts (SMEs) from each Service and various other organizations will meet in July and/or August 2007 to review the research methodology and current research and to formulate the initial joint TTP/CNOC test article. The Joint Warfare Advisory Group (JWAG) participants will evaluate all Service TTP and determine "best of breed" for inclusion in a joint TTP to be further decomposed into the CNOC.

3.4 CNOC Refinement

JMNO will use the joint TTP and CNOC developed by the JWAG to develop a laboratory environment during the August to December 2006 timeframe. This laboratory at the JMNO facilities at MCB Quantico will be used to test and refine the joint TTP/CNOC. Continued research and SME participation will be necessary to test and refine the test article.

3.5 Operational View (OV) and Systems View (SV) Development

JMNO operational and technical engineers will leverage on-going Service and other agency (e. g. Defense Information Systems Agency) architecture efforts to produce appropriate Department of Defense Architecture Framework (DoDAF) integrated architecture products for testing and validating the joint TTP/CNOC during the September to December 2006 timeframe. These products will depict and document the tactical network systems, activities, data flows, and technical standards required at the tactical level and their connectivity to the higher-level enterprise systems at both the operational and strategic levels.

3.6 Technical Advisory Group (TAG) Briefing

JMNO will brief the research methodology, research results, and initial joint TTP/CNOC to the TAG comprised of Service and agency experts in October 2006 at the JT&E Program Office, Arlington, Virginia. The TAG will review all work for technical feasibility and accuracy and provide technical feedback as appropriate to improve the test article.

3.7 Tabletop Event

The joint TTP/CNOC test article will be validated during a tabletop event at MCB Quantico in November 2006. This event will be comprised of Service and agency SMEs from the JWAG and TAG to ensure successful completion of Phase I. Observations and discrepancies will be noted and recorded to document the event and provide insight for improvement of the test article for Phase II and Phase III.

3.8 Phase I Report

JMNO will document all aspects of Phase I in the Phase I Report submitted to the JT&E Program Office and JMNO stakeholders by 1 March 2007.

4.0 Administration and Logistics

JMNO logistics and administrative support will be provided through the USMC host base support at MCB Quantico, Virginia.

4.1 References

- JMNO Charter
- JMNO Program Test Plan
- JMNO JT&E SOP.
- JT&E Handbook

4.2 Tools (not all-required nor all-inclusive)

- System Architect Version 10 (current version)
- MS Office Professional Suite
- MS Project
- Combined Media Battle Analysis Tool (COMBAT)
- SIMPROCESS
- Statistical Package for the Social Sciences (SPSS)
- Statistical Analysis Software (SAS)
- Media Library System (MLS)

5.0 Command and Signal

5.1 Process

Col Kowis will approve this plan before presenting to the GOSC. The GOSC will approve this plan and provide guidance and support throughout execution.

5.2 Schedule

The Phase I Plan Schedule organizes activities to achieve the objectives listed in the Phase I Plan. A detailed Plan of Action and Milestones (POA&M) will be developed in MS Project to capture all significant details and timelines.

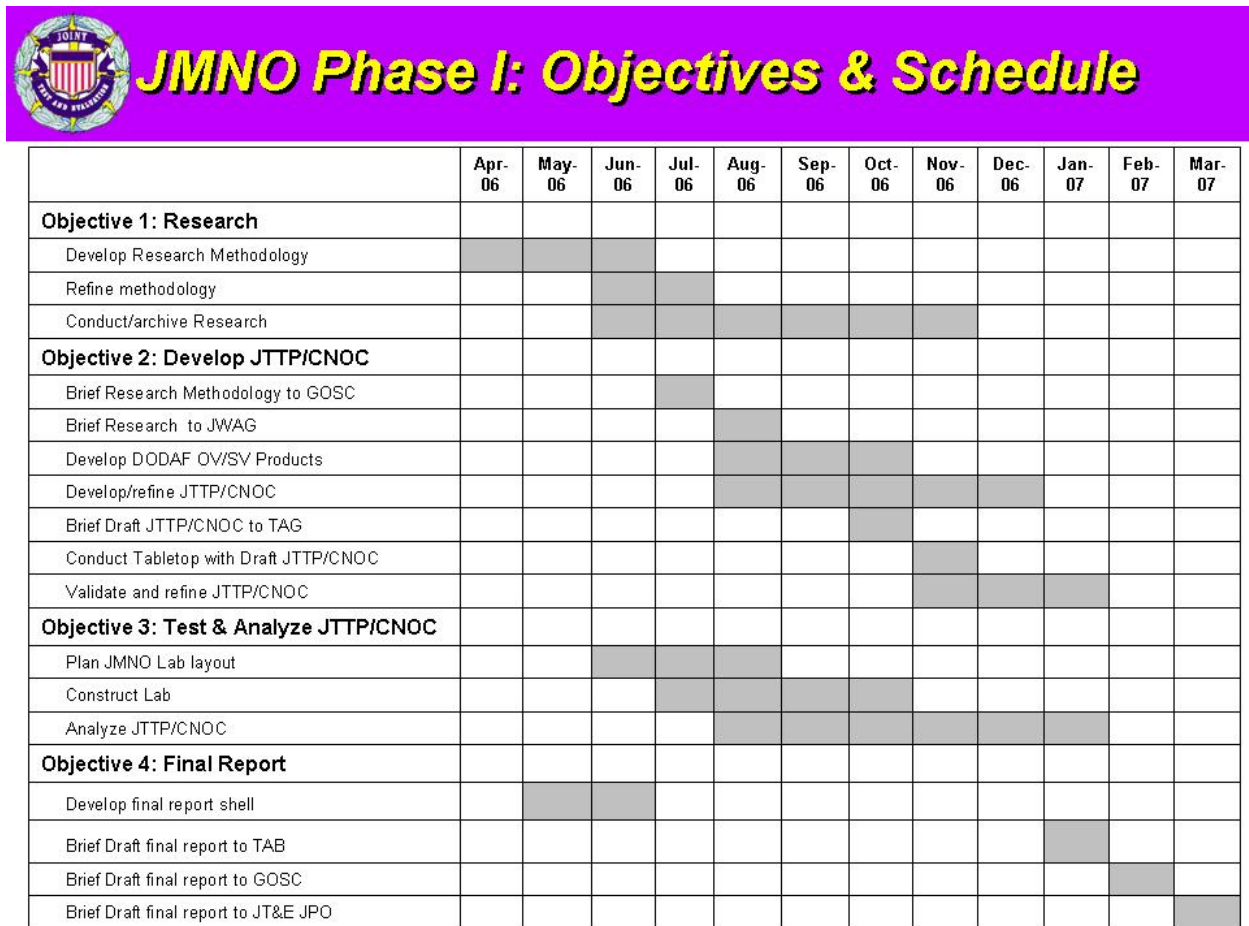


Figure 5-1. Phase I Schedule