

**Meeting Report for the
Joint Mission Planning System (JMPS)
Interdiction /Counter Air
Warfare Advisory Users' Group (WAURG) Meeting
Held on
31 January – 2 February 2000**

4 February 2000

**Submitted in Accordance
with
Naval Air Warfare Center- Weapons Division
Engineering Support Services for JMPS Version Two**

**Prepared for
Level Two JMPS Version Two IPT Lead
Joint Mission Planning System Version TWO
Naval Air Warfare Center – Weapons Division**

**Prepared by:
Brandes Associates, Inc.
1417 Crestline Drive
Santa Barbara, California 93105**

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1. Overview

The Joint Mission Planning System (JMPS) Version TWO Interdiction/Counter-Air Warfare Advisory Users' Group (WAURG) was held at the CSCI Headquarters, Springfield, Virginia, on 31 January 2000 through 2 February 2000. The purpose of the meeting was to have Fleet User input/validation into the JMPS Version TWO Interdiction/Counter-Air requirements database.

2. Summary of Discussions

31 January 2000

1300 – Welcome Remarks

- After preliminary administrative remarks by CSCI's Mr. L. Hoyt, Mr. B. Ramsay, Requirements IPT Lead PMA-233, discussed the purposes of the WAURG process to the attendees.
 - o What we really need for MP
 - o Need to differentiate between user & systems requirements
 - Users
 - UPC Developers

1345 – Overview: Mr. Hoyt provided the assembly with an overview of the next several days.

- Provided Rules of the Road for the WAURG
- Discussed agenda
 - o Day One
 - o Day Two
 - o Day Three
- Introduction of the JMPS V2 Team
- Background of WAURG Process Explained
- Introduction of the Participants
 - o Users (F-14, F-18 users)
 - o Model Manager
 - o UPC Developers
 - o Data Base Issues
 - WX – LCDR Tom Millman
 - Stores Planning & Weaponeering – Mr. T. Carr, PRC
- Re-emphasized User vs. System Requirements Capture Process
- Need to get feedback on “What is uniquely in TAMPS that needs to be captured in JMPS”
- Discussed Voting Procedures on Requirements

1415 – User Requirements Capture Process

- “*Future Requirements Capture: Common Process, Coordinated Execution Briefing*” – Briefer: Mr. Hoyt. This brief is available on the website.

- Overview
 - Goal
 - User defined system
 - Traceable requirements
 - Mind set
 - Systematic Approach
 - Qualified, stable approach
 - Gathering correct requirements is just the first step
- Common Process Coordinated Execution
 - Coordinated & Continuous Communications
 - USN/USMC/USAF/SOF
 - Common vs. Unique Platform Requirements
- Overview of the Process
 - TDD Process –a comprehensive mission planning task model
- Air Force Warfare Areas -
- Navy Warfare Areas - 12 areas
- User Requirements Capture Process
 - Source Documentation =>Extracted User Need Statements => Task Decomposition Diagram (TDD) (Task Blocks) => Formal User Requirements Statements => WAURG
 - WAURG Conference Events
 - Review preliminary analysis
 - Validate/Edit the User Requirements Data Base
 - WAURG Discussed
 - WAURG Output
 - Products
 - User Requirements Database (URDB)
 - JMPS MP CONOPS Support
 - Functionality Roadmaps
 - Value Added
 - User accepted & desired product
 - Sense of user “ownership”
 - Identification and consolidation of common requirements
 - Ensure robust object model
 - Schedule of events
- Presentation to JRB
 - Post WAURG, AF & Navy will compare databases –“What’s common?”
 - Presented to JRB
- Points of Contact
 - Navy
 - Air Force
- Schedule
 - EW – 7-9 March 00 at Whidbey

- C3/Recce – Week of 28 March 2000
- PGM development process (Template)
 - Common template for PGMs (Joint)

1430 – JMPS Co-Development Program (Demonstration) – LCDR D. Gay

- JMPS Mission Statement & Objectives
- Co-Development Schedule
 - JMPE – OT Feb 02
 - Service Unique
 - SOFPARS
 - AFMPS
- Requirements Process Explained
 - Joint but separate; meet at JRB
- Navy Migration Concept
 - TAMPS 6.X – Unpopular, but required
 - PFPS- Popular but not robust enough
- OAG Priorities
 - Learn from the Warfighter
- Demonstration of Logicon JMPS Prototype
 - Route Planning
 - Net Meeting
 - Windows Tools
 - Route Sharing

1600 –JMPS Task Decomposition Process – A Structured Analysis Approach – Briefer: Mr. L. Hoyt

- A process of capturing what you do when you mission plan
- The Big Picture – What are we trying to do?
 - Capture user requirements for V2 and beyond
- Approach
 - Structured Analytical Approach
 - 3 rules: Model, Defined set of rules,
- Why do it this way?
 - Repeatability
 - Areas of commonality
 - Ownership
- TDD Fundamentals
 - High level view of all tasks that must be accomplished to conduct mission planning
 - General tasks
 - No task is more important than any other
- TDD Fundamentals (Not)
 - Not a design of JMPS itself
 - Not a sequential flowchart
 - No prioritization is implied by the task block placement in the TDD
- TDD Rules

- User requirements only
- Not a flowchart
- No task ever repeated
- Think in general terms
- Your Role in the Process
 - Divided into working groups
 - Check our work so far
 - Make your changes to the TDD
 - Give us feedback on the approach
- How to Make Changes
 - Every Group assigned a color
 - Fill out TDD Worksheet for each additional or change your group wants to make
 - Finalize work by end of tomorrow and present on Wednesday
- Top Level Description
 - Tasking
 - Research & Analysis
 - Plan Construction
 - Coordination, Collaboration & Communication
 - Plan Execution
 - Post Mission Reporting
 - Mission Planning Environment
- Check it Out

1545 – Joe Gattuso Briefing

- Disruptive Technologies and their impact on how we conduct business

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0800- Review of Source Documents – Ms. N. Adamyk, NAWCWD

- LT McCormack discussed availability of sources of information aviators can use for mission planning. Look at the following URL:
www.monkeyplan.com
- Ms. Adamyk reviewed the documents used for Interdiction/Counter-Air requirements traceability
 - o Checked the most current date of the documents
 - o Dynamic process; this won't be the only time we look at this

0900 – Breakout Session – Mr. L. Hoyt, CSCI

- Review TDD Section 1 & 2:
 - o Discussed the subcategories in TDD 1 (Tasking)
- Mr. J. Gattuso assisted in coordinating the F-18 TDD inputs.
- Mr. M. Espitia assisted in coordinating the PGM inputs.
- LT Ray Drake, SWATSLANT, coordinated the F-14 inputs

1200 – Lunch

1245 – Continue Review of TDD Section 3, 4, 5, 6, and 7

1600 – Reviewed changes to the F-14 TDD

- LT Drake led the discussion on the F-14 TD review. The focus was on:
 - o Review of the existing inputs
 - Need to ensure Weaponing applications (e.g., SPW) include all the present and future weapons being considered for the F-14.
 - o Discussing which current TAMPS features had to be incorporated into JMPS before TAMPS could be removed from the aircraft carriers. These features centered on data loaded requirements and route planning capabilities.

1700 –Adjourned

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0810 – Review of Activities and Day Three Game Plan - Mr. L. Hoyt

- Looks like this will conclude today
- Will review F-18 & PGMs
- Reviewed F-14's comments:
 - o No automated Weaponeering capability
 - o "SPW application targets F-18" but is looking to incorporate other platforms – Mr. T. Carr
 - Looking to support platforms that use JMEMS
 - Issue of funding by OPNAV

0830 – Commenced F-18 TDD Review – Led by LT Russ McCormack

- Review focused on user requirements & TAMPS-specific items
 - o F-18 documents review/scrub process explained (Ms. Adamyk also taking notes)
 - Orange outlines, not F-18 specific
 - o TDD review
 - Section 1:
 - Section 2:
 - **Issue of literally “displaying” the enemy OOB; need to have that capability in JMPS**
 - Environmental issues relating specifically to weapons employment “Critical”
 - Section 3:
 - Flight planning in US & International (ICAO)/GATM
 - Need to place GPS Almanac/Data Link Data in Section 2, as well as in section 3 (Planning) (Red & Black GPS issues), Flight Planning (Section 5)
 - Sensor Employment
 - o Footprints must be **displayed**
 - Planning Weapons Stores
 - o Changing configurations
 - Go-No criteria issues need clarification in “Contingency Planning” area
 - Simulations should include weapons simulations under different sensors
 - Section 4:
 - Section 5:
 - Section 6:
 - Section 7:
 - Display of data (Weather, Weapons' LARs, sensor prediction footprints, etc.)
 - o Discussion ensued on aircraft route & weapons route interaction.
 - o TAMPS critical items
 - ROE matrix

- Accessing, manipulate, appending & store data
- GPS/non GPS navigation aids (DAFIF)
- GPWS data issue
- Sensor employment
- ARC-210 loading through TAMPS
- Data Link/IFF matrices
- Generate data loads for aircraft & weapons
- MLS issue – Rash comments

1000 – PGM TDD Review – Mr. L. Smith

- Mission Planning critical to PGM planning
 - o METOC data critical
- TDD Review
 - o Section 2.1 on source data (e.g. ATA data, GPS Almanac data, and “read only” mensurated data, TLE issue, etc.)
 - o Section 3: Weapon seeker METOC/Imagery requirements
 - Define targeting/weaponeering requirements
 - Issue of iterative planning & weapons effectiveness
 - Safe release issues need to be identified
 - New box for offense surface attack
 - 3.3.2.1. – Weapons route issue need to be amplified
 - Issue of GPS jamming needs to be addressed
 - 3.5.1.3 – Data link planning
 - 3.5.3 – EW employment and impact on Data Link (AWG-13)
 - 3.7 – Weapons planning needs to be moved to Section 3.3.2.1
 - JSOW C4I plan
 - 3.10 – Loading brick issue
 - o Section 4: Coordination issue
 - o Section 5: Discussed issue of other aircraft sensor inputs
 - o Section 7: Need to be on a network for planning
- Need to ensure (SLAM/HARM (CONOPS)/JSOW-JDAM) FRDs are provided to the Requirements Team; ensure the FRDs capture the comments discussed at this WAURG. Looking to have the FRDs by 2 May 00 (Janice Mertz). Another meeting to coordinate these documents with the TDDs.

1100 – Authoring of JMPS CONOPS Changes – Users

- Users coalesced into groups to edit CONOPS
- Mr. Hoyt distributed TDD evaluation sheets & User Voting forms

1200 – Lunch

1220 – Complete CONOPS Updates

- Users continued in impromptu discussions groups

1330 – Interdiction/Counter-Air WAURG concluded proceedings

3. Action Items

Users briefed specific changes in their respective TDD areas and noted those changes for the CSCI representatives.

4. Next Scheduled Meeting

The next scheduled WAURG will focus on Expeditionary Operations and is scheduled for the week of 21 February at NSWC Dahlgren.

5. Attendees

A listing of the attendees is posted at the JMPS web site at the following URL:
<https://mps.chinalake.navy.mil/>