

**Meeting Report for the
Joint Mission Planning System (JMPS)
Electronic Warfare (EW)
Warfare Area Users' Requirements Group
(WAURG) Meeting
Held on
7 March – 9 March 2000**

14 March 2000

**Submitted in Accordance
with
Naval Air Warfare Center- Weapons Division
Engineering Support Services for JMPS –Combat Planner**

**Prepared for
Level Two JMPS -Combat Planner IPT Lead
Navy Mission Planning System IPT
Naval Air Warfare Center – Weapons Division**

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Table of Contents

1. Overview	1
2. Summary of Discussions	1
3. Action Items	8
4. Next Scheduled Meeting	9
5. Attendees	10

1. Overview

The Joint Mission Planning System (JMPS)-Combat Planner Electronic Warfare (EW) Warfare Area User Requirements Group (WAURG) was held at Building 1388 of the Naval Sea System Command, Port Hueneme, California on 7-8 March 2000. The purpose of the meeting was to have Fleet User input/validation of the JMPS-Combat Planner Electronic Warfare requirements database.

2. Summary of Discussions

7 March 2000

0915 – Welcome Remarks -

Ms. Adamyk, the NAWCWD JMPS-Combat Planner Team Lead, opened up the meeting with general administrative remarks. She provided the assembly with an overview of the EW WAURG over the next several days.

- Provided Rules of the Road for the WAURG
- Discussed agenda
 - o Day One
 - o Day Two
 - o Day Three
- There was no government PMA-233 representation due to prior commitments. Mr. L. Hoyt represented CSCI.
- Reviewed previous WAURGs
- Introduced the NAWCWD Team:
 - o Ms. R. Garcia & Ms. M. Ramirez: Responsible for the consolidation and posting of all the JMPS-Combat Planner EW requirements into DOORS and the TDD, and the preparation of the EW WAURG documents
 - o Mr. Greg Holladay/Ms. Jennifer Tran: Project engineers. Supported input of the EW requirements into DOORS and the TDD.
 - o Ms. L. Tanner (not present), Mr. J. Gattuso (not present), and Mr. M. Espitia: As former operators, responsible for the initial mapping of the EW requirements from the EW source documents
 - o Mr. G. Garcia: NAWCWD JMPS IPT Lead

0925 – The WAURG Process Defined

- Mr. Hoyt, CSCI, briefed WAURG process
- Mr. Hoyt stressed the need to differentiate between user & systems requirements
 - o Users: USN/USMC aviators flying aircraft with designated Electronic Warfare missions
 - o UPC Developers: Government & Industry personnel developing systems used in supporting the EW missions. They often gravitate to system level requirements versus user requirements.

0940 – Overview: “Future Requirements Capture: Common Process, Coordinated Execution Briefing” – Briefer: Mr. Hoyt This brief is available on the EW WAURG webpage.

- Overview
 - Goal
 - User defined system
 - Traceable requirements
 - Mind set
 - Systematic Approach
 - Qualified, stable sources
 - Gathering correct requirements is just the first step
- Common Process, Coordinated Execution
 - Coordinated Execution & Continuous Communications
 - USN/USMC/USAF/SOF
 - Common vs. Unique Platform Requirements
- Overview of the Process
 - Task Decomposition Diagrams (TDD) Process –a comprehensive mission planning task model
- Air Force Warfare Areas Defined
- Department of the 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
 - Modify existing URDB and TDD to reflect complete user needs
 - Validate/Edit/Prioritize User Requirements Data Base
 - Voting on mission criticality issues
 - WAURG “Lead” explained
 - WAURG Output
 - Products
 - User Requirements Database (URDB)
 - Traceable Requirements
 - ID of common, unique requirements
 - Task Decomposition Diagram (TDD)
 - JMPS CONOPS Support
 - Functionality Roadmaps
 - Requirements Capture Summary Diagram
 - Discussed the various components and responsibilities
 - Value Added
 - User accepted & desired product
 - Sense of user “ownership”

- Identification and consolidation of common requirements
- Ensure robust object model
- Similar WAURGs handled concurrently (pre-JRB)
- Schedule of events
 - Mid-April 00-C3/Recce WAURG

**1030 –JMPS Task Decomposition Process – A Structured Analysis Approach –
Briefer: Mr. L. Hoyt. This brief is available on the EW WAURG webpage.**

- A process of capturing what the operator does when he/she plans a mission
- The Big Picture – What are we trying to do?
 - Capture user requirements for JMPS-Combat Planner and beyond
- Approach
 - Structured Analytical Approach
 - 3 reasons: Formal Model, Defined set of rules, Allow for traceability
- Why do it this way?
 - Repeatability
 - ID Areas of commonality: Stressing Interoperability
 - Ownership
- TDD Fundamentals
 - High level view of all tasks that must be accomplished to conduct *mission planning, not system requirements*
 - General mission planning 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 platform assigned a color on the TDD.
 - Annotate your suggested TDD changes with colored stickies
 - Fill out a TDD Worksheet for each addition or change your group wants to make (one to match each colored sticky)
 - Finalize work by noon Wednesday and present results.
- Top Level Description – Seven Areas

- Tasking
- Research & Analysis
- Plan Construction
- Coordination, Collaboration & Communication
- Plan Execution
- Post Mission Reporting
- Mission Planning Environment
- Check it Out

1045 – TDD System Definitions – Ms. Adamyk

- Ms. Adamyk handed out the latest TDD definitions describing the task encompassed in each block. She instructed the EW WAURG participants to examine the documents and to query the NAWCWD Team (Ms. Garcia, Ramirez, Adamyk, Tran, and Messrs. Holladay, Hoyt and Espitia) if there were any questions.

1145 – Break for Lunch

1315 – EW inputs into the JMPS URDB Template

- This time taken up working with the operators to clarify their roles in the WAURG process. Members of the NAWCWD Team (listed above) and Mr. Hoyt assisted in answering questions.

1340 – Source Documentation Review –Ms. Adamyk

- Ms. Adamyk reviewed the documentation the NAWCWD Team used to capture the EW user requirements. The documentation included the JMPS CONOPS Appendix J (EW), Joint Publications, Naval Warfare Publications (NWP), Naval Messages, Technical Documents, Platform FRDs and EW Weapons Publications (e.g., HARM CONOPS). A listing of the documents analyzed for requirements is available on the EW WAURG website. Ms. Adamyk briefed the audience on how to use the colored stickies and change forms to document the requirements, and presented a brief discussion on how to use the source documentation and URDB files in conjunction.
- Discussions ensued on how the users would capture their mission planning process in the TDD.
 - The NAWCWD Team (Ms. Adamyk, Garcia, Ramirez and Tran, along with Messrs. Espitia, Holladay, & Hoyt used the remainder of the afternoon to assist in coordinating the EW users URDB and TDD inputs

8 March 2000**0800- Breakout Session – Ms. N. Adamyk**

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- The Users and NAWCWD Team continued the efforts from Tuesday afternoon. The EA-6B users placed their emphasis on the TEAMS and ETIRMS Functional Requirements Documents (FRDs)

1120 - Action Items – Ms. N. Adamyk

- The EW WAURG Team and Members reviewed what they had accomplished, and discussed items that needed additional resolution. Tasks which would not get accomplished by 1500 were assigned as actions. Refer to Action Item listing.

1200 – Lunch**1330 – Voting on MP Priorities in EW TDD Breakout – Mr. Hoyt**

- Mr. Hoyt explained the voting process to the EW WAURG participants for establishing the EW priorities. After the explanation, he assisted the EA-6B users in voting on their priorities. No other platforms voted in this WAURG.

1350 - EW WAURG Evaluation Sheets

- The EW operators completed the voting and were asked to complete WAURG evaluation sheets

1500 – The EW WAURG concluded.**3. Action Items**

AI	POC	Status
Mr. Robert Duarte is to provide applicable TEAMS software change requests (SCRs) with the requirements marked and mapped to the TDD. The NAWCWD team will incorporate these into the Requirements.	Mr. Duarte Ms. Ramirez Ms. Garcia	Open Due March 24
Get a copy of the EW TDD breakout and HARM documentation to Mr. Nielsen. This can be via the website	Ms. Ramirez/Ms. Garcia	Open ASAP
Ensure the JMPS CONOPS Appendix J is revised.	Multiple (LTs McCormack, Raglin, & Soesbee, LCDR	Open Updates provided by Rag-

	Hutton, and MAJ Mercier)	lin, Hutton and Soesbee . Due 24 March from MAJ Mercier, provided it is de- livered to him in a timely manner (17 March)
Complete a Critique Summary file and provide to the NAWCWD JMPS Team and PMA-233.	Mr. Hoyt	Open 17 March
Post EW WAURG Documents on the JMPS web site. Specifically requested; the DOORS versions of the TEAMS FRD and the ETIRMS FRD, the SCRs (when available), the EW TDD breakout with the EA-6B changes, and the HARM CONOPS (in MS Word format)	Mss. Garcia, Ramirez & Mr. Hoyt. Ms. Katie Pritchard	Open ASAP
Ensure EW WAURG Task Priorities Sheet is passed to NAWCWD	Mr. Hoyt	Open 17 March
Complete & forward WAURG Minutes to NAWCWD	Mr. Espitia	Open
Map the ETIRMS FRD requirements to a lower level in the TDD	Mr Darin Nielson	Open Due 17 March
Incorporate the Remapping of the ETIRMS and TEAMS FRDs into the TDD and URDB	Mss Ramirez and Garcia	Open
Provide filtered URDB file for LCDR Hutton to evaluate for S-3 applicability. File to be filtered to eliminate all requirements marked for 'all platforms'	Ms. Ramirez	Completed 3/8???

4. Next Scheduled Meeting

The next scheduled WAURG will focus on C3/Recce Requirements and is tentatively scheduled for mid to late April 00 at the CSCI Headquarters, Springfield, VA.

5. Attendees

Electronic Warfare Advisory Users Group Attendance Listing

<u>Name</u>	<u>Command/Association</u>	<u>Phone Number</u>	<u>E-Mail Address</u>
Mr. Rod Rodman	CSCI	(301) 994-9611	wrodman@csci-va.com
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Mr. Lance Hoyt	CSCI/JMPS	(703) 866-4000	lhoyt@csci-va.com
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