Joint Mission Planning System

Expeditionary

Collaborative Planning Workshop

22 April 2003

NSWC - Coastal Systems Station
EXPEDITIONARY WARFARE SOFTWARE SYSTEMS DEVELOPMENT BRANCH
Panama City, FL

Purpose

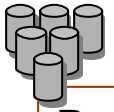
Joint Mission Planning System Expeditionary

- Automating Staff Mission Planning

- Integrating Collaborative Planning Tools to Support STOM During SEA VIKING 04

Automating the Planning Process

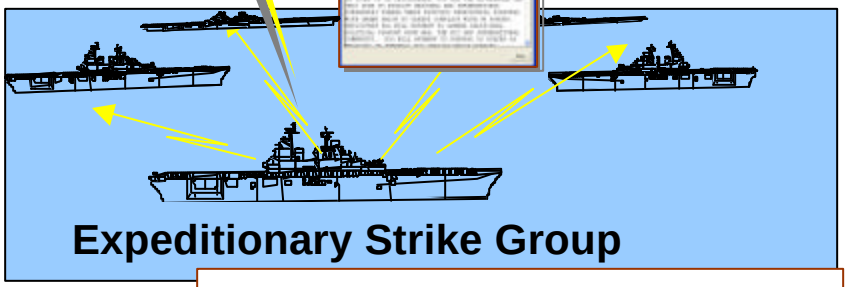
Real-Time ISR
Improved Network Architecture
Information Management/ Data Flow Optimization
Tactical OTH/ BLOS Communications



Reachback to Databases

Improved Situational Awareness

Anticipation: Warning Order



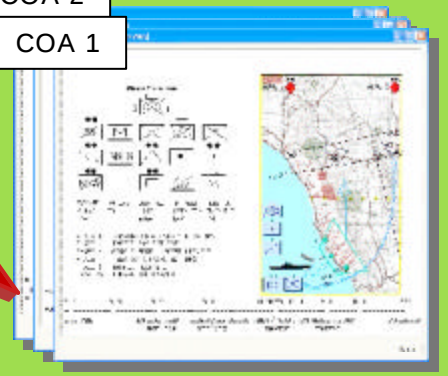
Netted Battleforce Operations

Distributed/ Collaborative Planning

Mission Analysis

Rapid Development of Multiple COAs

COA 3
COA 2
COA 1



Integrated COA War Gaming

Commander's Decision

Confirmation Brief

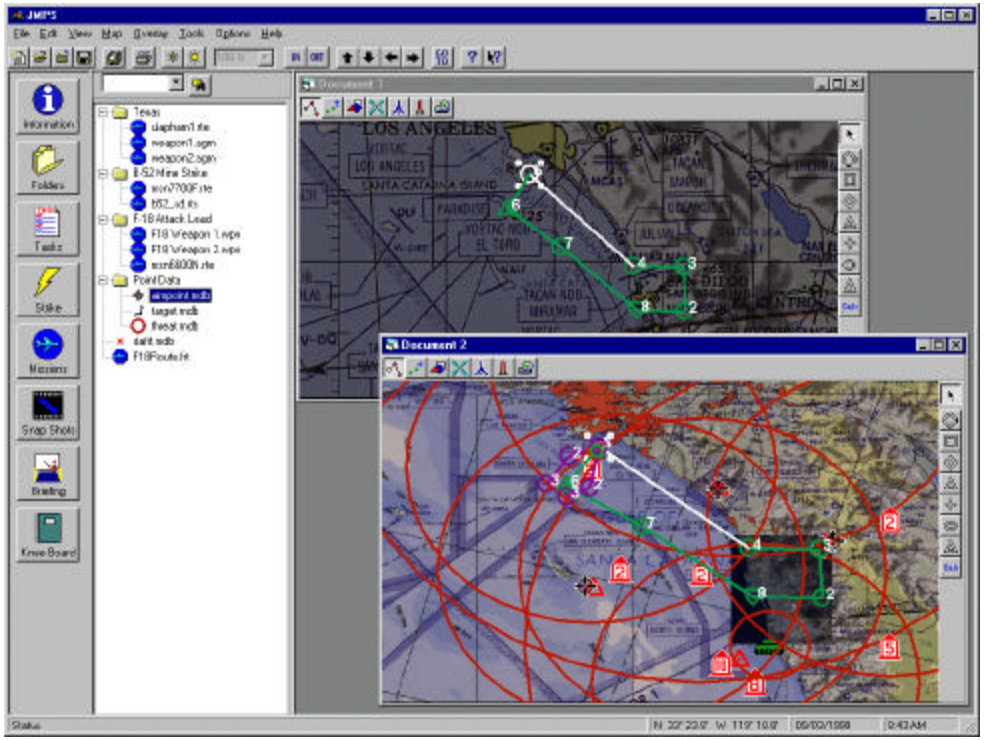
Orders Development/ Dissemination

Transition to Execution

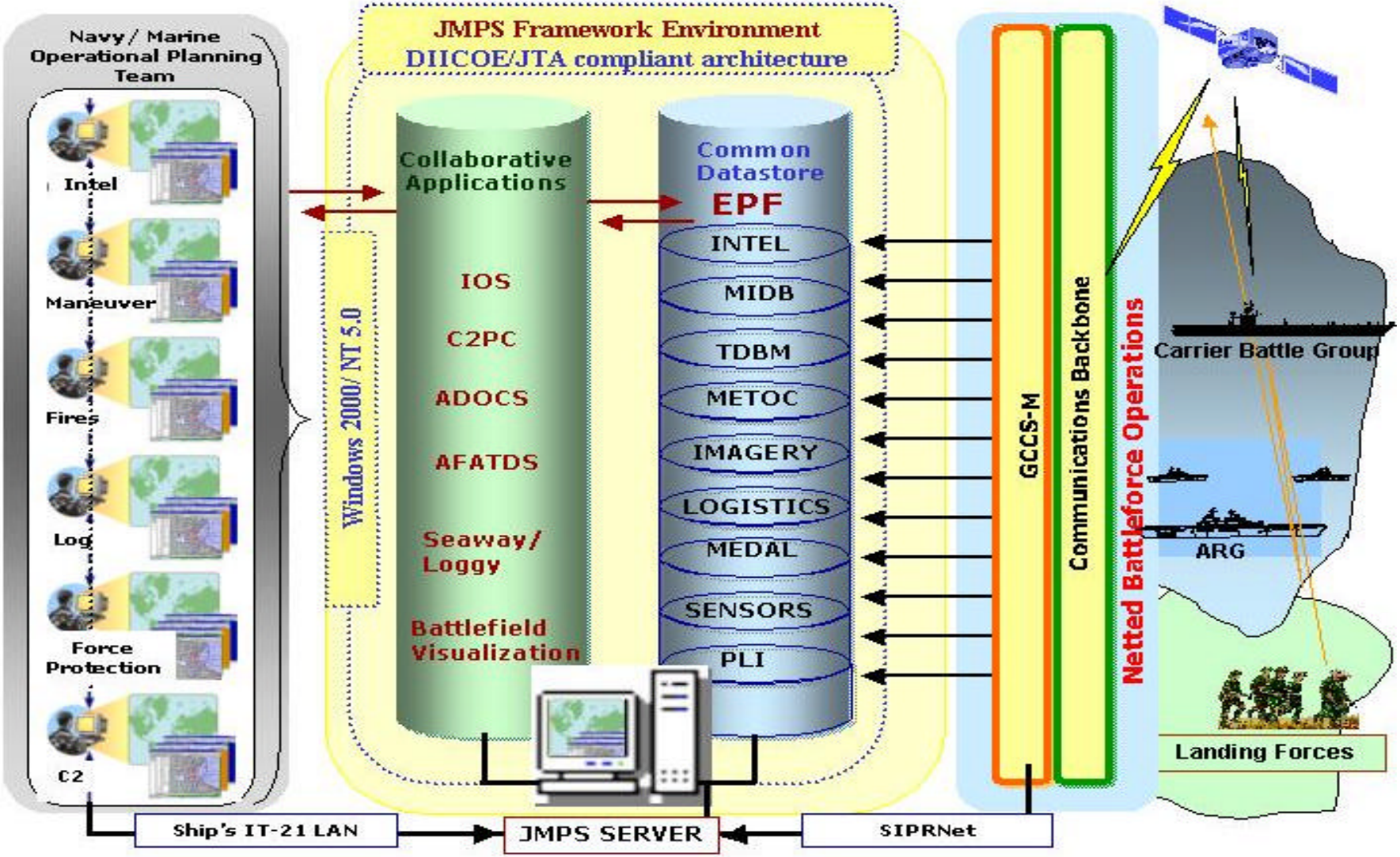
Adaptive Planning/ Dynamic Re-Planning during Execution

Joint Mission Planning System Expeditionary

- Extends ***JMPS*** From Air Platform-centric To Naval Expeditionary Staff Planning and Amphibious Platforms
- Provides Integrated Planning Support for All Air, Surface, and Ground Assets to Support STOM
- Automates Marine Corps 6 Step Planning Process (MCPP)
- Reduces Deliberate Planning Timelines With Increased Fidelity of Data
- Provides an Automated, Distributive, Collaborative Planning Capability for the MEU (SOC) Staff



Collaborative Planning



C2PC

Command and Control Personal Computer

- Windows application that exchanges tactical data with GCCS based data server via serial port, LAN, tactical radio, etc.
- Dynamically combines data received via various communications interfaces on a multiple map or imagery display for analysis by native or 3rd party decision aids
- Provides geographically based situational awareness capability that includes display of the GCCS Common Operational Picture (COP) data. tracks/unit positions as independently updated entities, graphic overlays, routes, and tactical messages (opnotes/free text/VMF/USMTF).
- Deployed on the IOW, DACT, and AAAV

AFATDS

Advanced Field Artillery Tactical data System

- Provides an automated capability for fire planning, tactical fire direction, and fire support coordination at the firing battery, Fire Direction Center (FDC), and Fire Support Coordination Center (FSCC).

- Provides an automated capability to integrate supporting arms assets into maneuver plans, provide battlefield information, target analysis, and unit status, while coordinating target damage assessment and sensor operations.

- A full range of fire support, maneuver control, coordination measures, and geometry are displayed for fire support coordination at the workstation.

CAPES – Powered By Davinci

Combined Arms Planning & Execution monitoring System

CAPES is a DSS enabling the commander and staff to rapidly and effectively plan/monitor/replan combined arms (e.g. maneuver, fires, logistics) operations

Planning

- Mission Analysis
- COA Development
- COA Analysis
- COA Comparison
- COA Approval
- Orders Generation

Military Decision Making Process

Automated Reasoning & Decision Support Tools

Mobile Distributed Collaborative

Tactical Picture & Execution Alerts

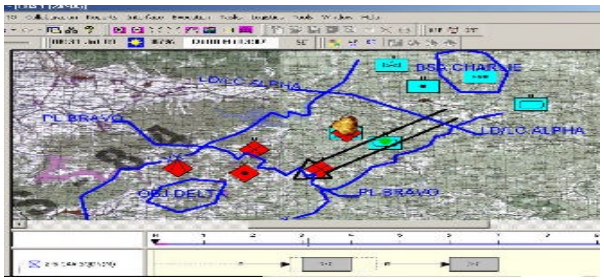
Execution Monitoring

JCDB

Monitor Joint Common Database for Plan contingencies

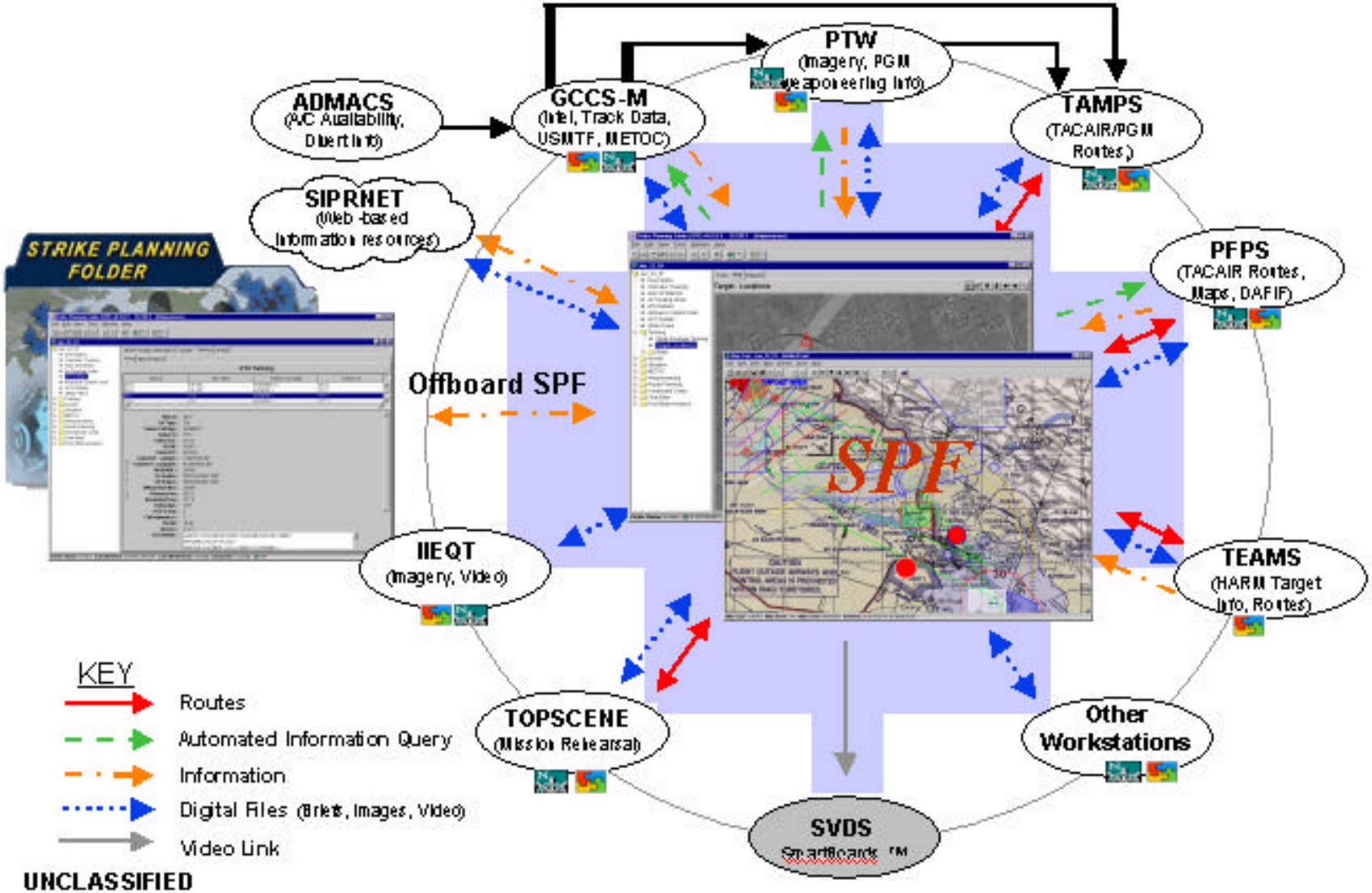
Visualization & Collaboration

- **Map Background**
- **Mil Std Graphics**
- **COA animation**



- **Horizontal Plan Collaboration**
- **Vertical Plan Collaboration**

Strike Planning Folder



Summary

- JMPS EXP leverages existing planning tools
- Process oriented: Automates MCPP (R2P2)
- Initial focus is the sea based PHIBRON/ MEU (SOC) Staff within the ESG
- Supports STOM for high tempo, maneuver warfare
- Distributed parallel, concurrent, simultaneous collaborative planning across the ESG
- Increases flexibility while providing greater fidelity
- Software; not hardware
- Capabilities evaluation and integration on-going

Questions?