SmartCOP

Objects May Be Closer Than They Appear

ICCRTS June 2005

Dr. Lee Whitt
Technical Fellow
Northrop Grumman Corporation
Challenging Questions

• What is the hardest problem in NCW?

• What is the Command Center of the Future?

• What is the DoD strategy for Enterprise Information Management?

• If platform-centric is bad and network-centric is good, then platform-centric Situation Awareness (SA) is bad. So what is good SA?
What’s a Wiki?

**Data Display**

**Tactical Portals**
- Strike Coord
- ISR (SRMT)
- CCMD
- Air Defense
- TBMD
- AAW
- BDA

**Information Portals**
- Readiness
- Asset visibility
- Munitions
- Intelligence

**Planning & Execution Portals**
- TDAs
- Alternative COA Analysis
- Mission Planning
- Mission Execution

**Collaboration**
- White Board
- Voice
- Briefing Prep. Tools

**Wikis + KM + COP + smart agents = SMART COP**
SmartCOP Concept

To each COP track, attach a collaborative web-based environment – called a “SmartPage” – to foster information sharing and user interaction within a defined context.

Then build value-added services (e.g., smart agents) to mine & exploit this enterprise repository of information-rich SmartPages across the COP.

- Designed for Dynamic and Ad hoc Change -
Engineered to Exploit Data within Context
Access Track SmartPage

Highlight KITTY HAWK and select SmartCOP
Display Kitty Hawk’s SmartPage

Kitty Hawk Strike Group

The Kitty Hawk Strike Group is composed of Cowpens, Chosin, Lassen, Port Royal, and Sacramento.
FOR TRAINING USE ONLY

RTTYXCM PRRG98000Q 3312102-4444-8888,
MT FUUUQ
O 2114LS OCT 04
PM CTU FIVE ZERO PT ONE PT TWO
TO TH FIVE ZERO PT TWO PT ONE
COMBINATION TWO THREE
BT
EXERCISE EXERCISE EXERCISE EXERCISE
UNCLASS (FOR EXERCISE PURPOSES ONLY)
EXER/OPERATION URGENT TASK/...
SITREP/SCM/CTU50G/1.3/...
REP/A/DOC/CSF-CUSMC/01JUN2001/...
REP/B/PSG/CTU 50/291215ZSEP09/...
SRR/REF A 3S CSF/CUSMC OFORD 1000-01. REF B IS CTD 50.3 SOCA LIMS.//
SUBJ/SCC INTENTIONS FOR 290801Z0CT04 THRU 242992ZCT04//

2. (U) WARNING STATUS/WEAPONS POSTURE/AREAS OF INTEREST:
   A. THREAT WARNING/WEAPON STATUS
      SUN: WHITE/SAFE
      UCH: WHITE/SAFE
   B. WEAPONS POSTURE
      SUN: [EXERCISE] VP II
      USU: [EXERCISE] VP II
This is a unique capability that integrates a *discussion session* with a *document*. Chat, IM, and email do not support this level of information integration.
Discussion Session

When the document is accessed, the discussion session is also available.
Sample Email Alert

Alerts are provided as email notification

Go to the KH Home Page
Go to the web part
Go to the document
Go to the alert config

Alert result:
http://nghusep1.db/p/DO/09922/6 - KITTY HAWK

Short Items Summary

Alert item: MSC 2141520CT04... has been added by dom_superproducer

Go to My Alerts to edit, delete, or view your alerts.
SmartPage for an Event

Jail Uprising in the Philippines
SmartPage drill-down for Jail Uprising
SmartPage for Bandar Abbas

Highlight Bandar Abbas and select SmartCOP
Phase 2: SmartCOP Approach to Good SA

**Implement Mission “objects”**

- Create & display missions
- Support mission hierarchies
- Support mission temporal relationships
- Distribute across COP architecture
Phase 3: Associate SmartPages to Missions

Here's a SAR mission
SmartCOP Benefits to the Warfighter

✓ Well-defined integration point and organizing construct for information
✓ Completeness of tactical information
✓ TPPU-based collaboration
✓ Easy access (browser & permission)
✓ Composeable & open
✓ Dynamic information integration
✓ Dynamic workflow
✓ Expanded shared understanding
✓ Decision-making and risk mitigation
✓ Enhanced context (data point & trend curve)
✓ Information assurance
✓ Enhanced search
✓ Multi-level security
✓ Mission-centric
✓ Self-sustaining
✓ Plug-and-fight
✓ User-centric
SmartCOP Benefits to the Warfighter

- Well-defined integration point and organizing construct for information
- Completeness of tactical information
- TPPU-based collaboration
- Easy access (need browser & permission)
- Composeable & open
- Dynamic information integration
- Dynamic workflow
- Expanded shared understanding
- Decision-making and risk mitigation
- Enhanced context (data point & trend curve)
- Information assurance
- Enhanced search
- Multi-level security
- Mission-centric
- Self-sustaining
- Plug-and-fight
- User-centric
Challenging Questions (revisited)

- **What is the hardest problem in NCW?**
  - Get the right information to the right person at the right time in the right format
    - Intermediate step: Provision relevant information to shared workspaces as soon as available in a customizable format

- **What will the Command Center of the Future be?**
  - Virtual workplaces in cyberspace (e.g., SmartPages)

- **What is the Battlespace strategy for Enterprise Information Management?**
  - Tag everything with metadata & use search
    - Intermediate step: Post information to SmartPages

- **What is good SA?**
  - Mission-centric SA (with associated SmartPages)
- Summary -

SmartCOP for the Battlespace

- All Command & Control starts with Information -
Information is data organized according to context
Backups

Today’s SmartCOP briefer

Dr. Lee Whitt