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ADP013319

TITLE: Joint Operations Picture

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This paper is part of the following report:

TITLE: Multimedia Visualization of Massive Military Datasets [Atelier OTAN sur la visualisation multimedia d'ensembles massifs de donnees militaires]

To order the complete compilation report, use: ADA408812

The component part is provided here to allow users access to individually authored sections of proceedings, annals, symposia, etc. However, the component should be considered within the context of the overall compilation report and not as a stand-alone technical report.

The following component part numbers comprise the compilation report: ADP013309 thru ADP013341

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• Not just the geo-spatial situational awareness picture **Environment (MACE)**

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Joint Operations Picture

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- Information centric and includes facilities for information retrieval, linking and management as
- · Dynamic by phase of operation, level in command and role/function

• The ability to give the commander at the Strategic /

Operational level the appropriate amount of

situational awareness in order to facilitate

• The total set of information, in whatever form, which is a managed and validated view of the history, current

situation and future plans for all components of an

understanding to aid the command process.

• Right information, right form, right time!

well as database interaction

• The JOP is not just technology it requires an information culture, standards, procedures, a diversity of information sources and an infrastructure.

Key Purposes

The Problem

operation.

What is it?

- Enable individual and collective awareness of operational situation
- · Enable individuals/groups to share/compare/contrast their views
- · More effective means of communicating operation information
- · Enable individuals/groups to model/represent the operation with combined knowledge and perception

Functional Requirements

- HCI
- · Searching capability
- Information assurance
- Aggregation

- Data replication/synchronization
- Ownership
- Lifecycle
- Time stamp
- Archiving, Backup and recovery

Profiling

- Profile
- security
- Use of Digital sigs/PKI
- Managed Access-control & Capabilities
- function
- command level
- personnel preferences language e.t.c.
- Information Broker
- ability to change user profile
- suggest more information

Future Issues

- Summarisation
- between command levels
- between cells
- over various sources of information
- truth maintenance
- Certainty
- representing uncertainty sliding scale?
 - aggregation of weightings
- degradation of data fading?

Alerting

- track changes
- communication problems
- alerting mechanisms

Discussion – Paper 10

Can you overlay images on the graph?

• Yes, but it is a controllable option.

Is there an overview to show an inventory of available information?

• Not at present, but it could be done.

How well does it interface with other systems?

• It is designed to look for information from other sources.

Collaborative aspects at different levels of command: Is there a common update so all levels get the most recent data?

• For group work there can be shared information in the individual wants to publish it, at a given security level.