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2002 Symposium

Transforming Fantasy

Lou Mason

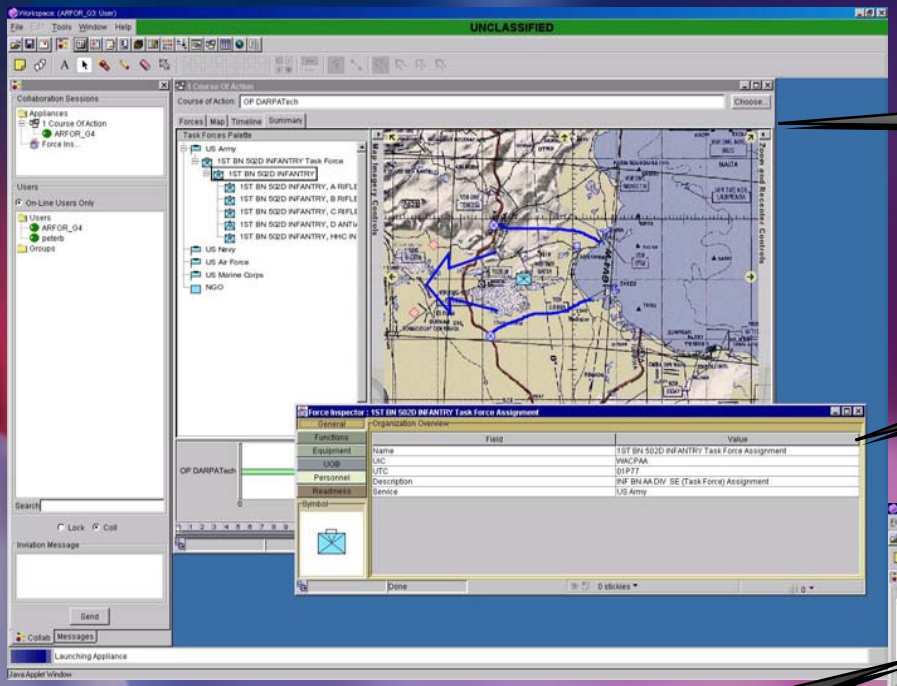
Program Manager

Transforming Fantasy

Joint Theater Logistics

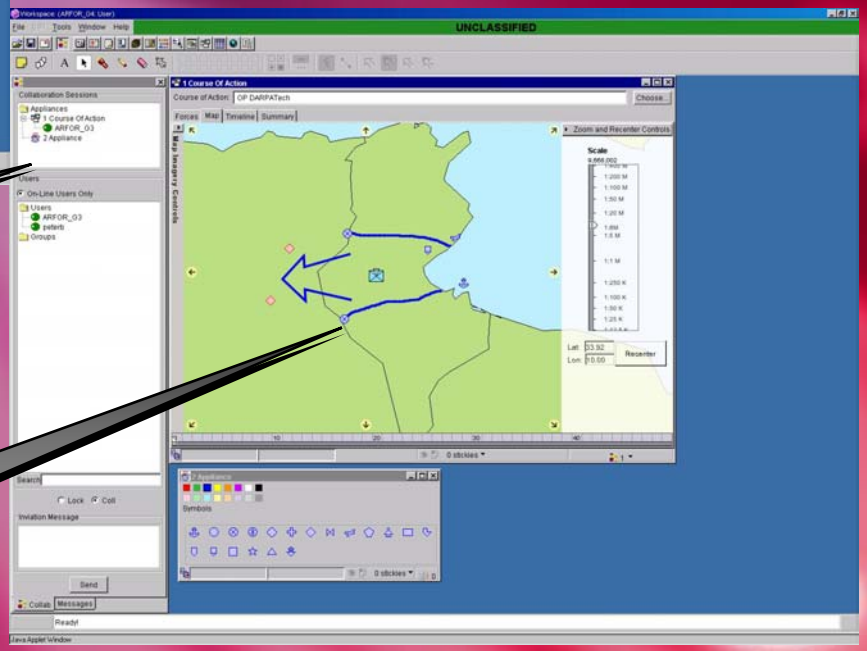
Web-based Collaborative C^2

“Deep” Collaboration



Blueprint

Content



Synchronous Collaboration

Markings

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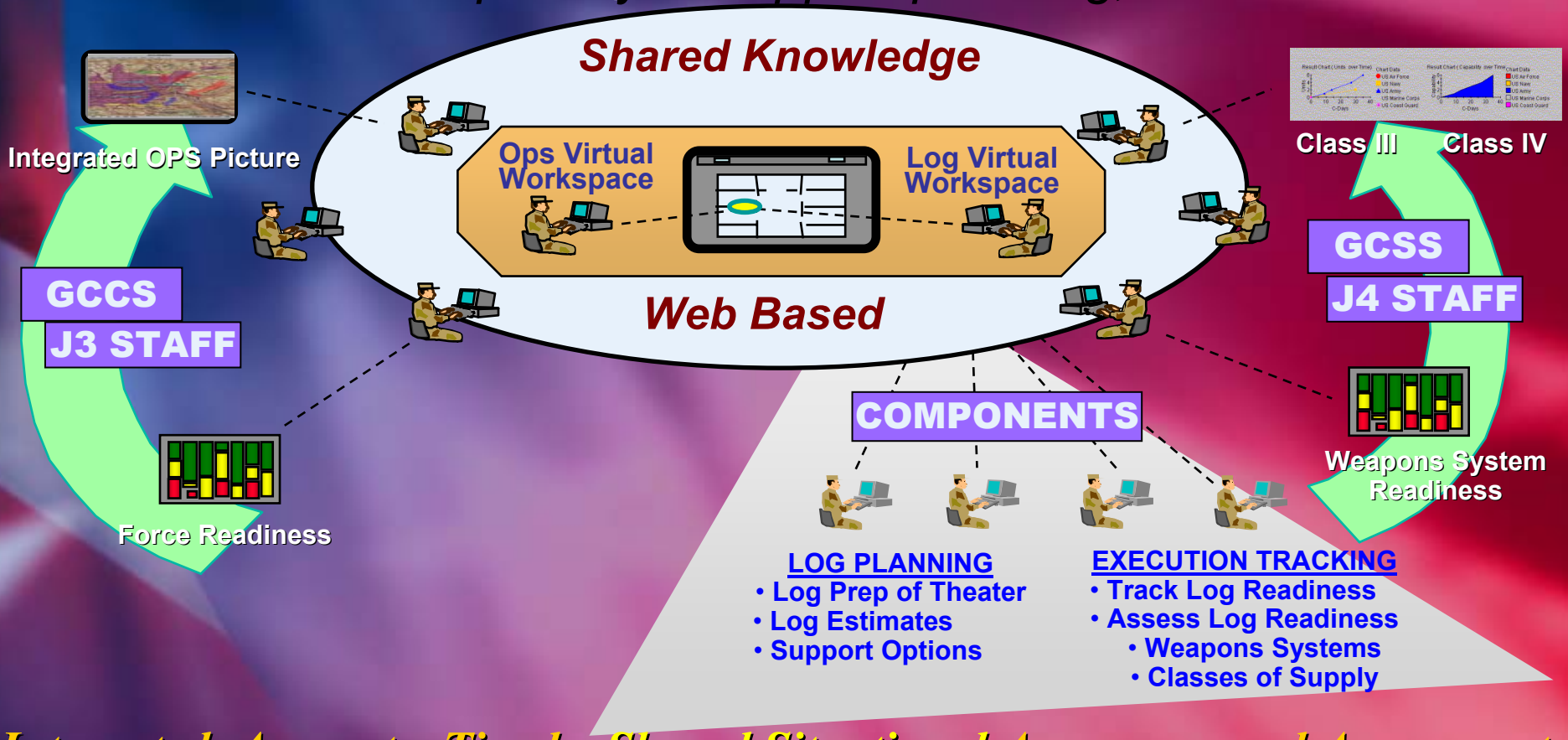
Joint Theater Logistics (JTL) ACTD

Provide the Warfighter with a near real time operations & logistics collaborative capability to support planning, execution & C2



Integrated, Accurate, Timely, Shared Situational Awareness and Assessment

"Collaborate the Content, Blueprint, and Marking"

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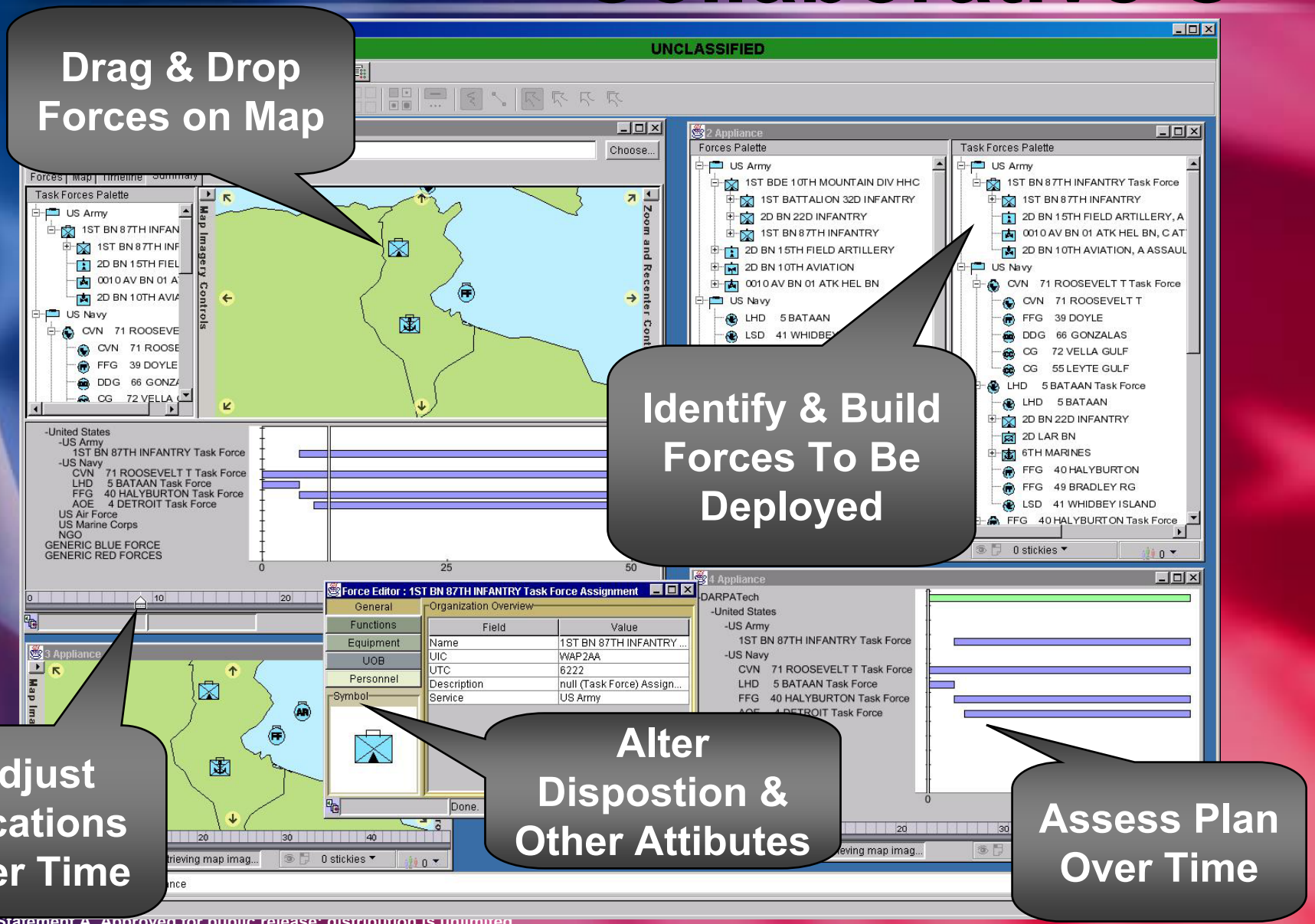
Collaborative C^2



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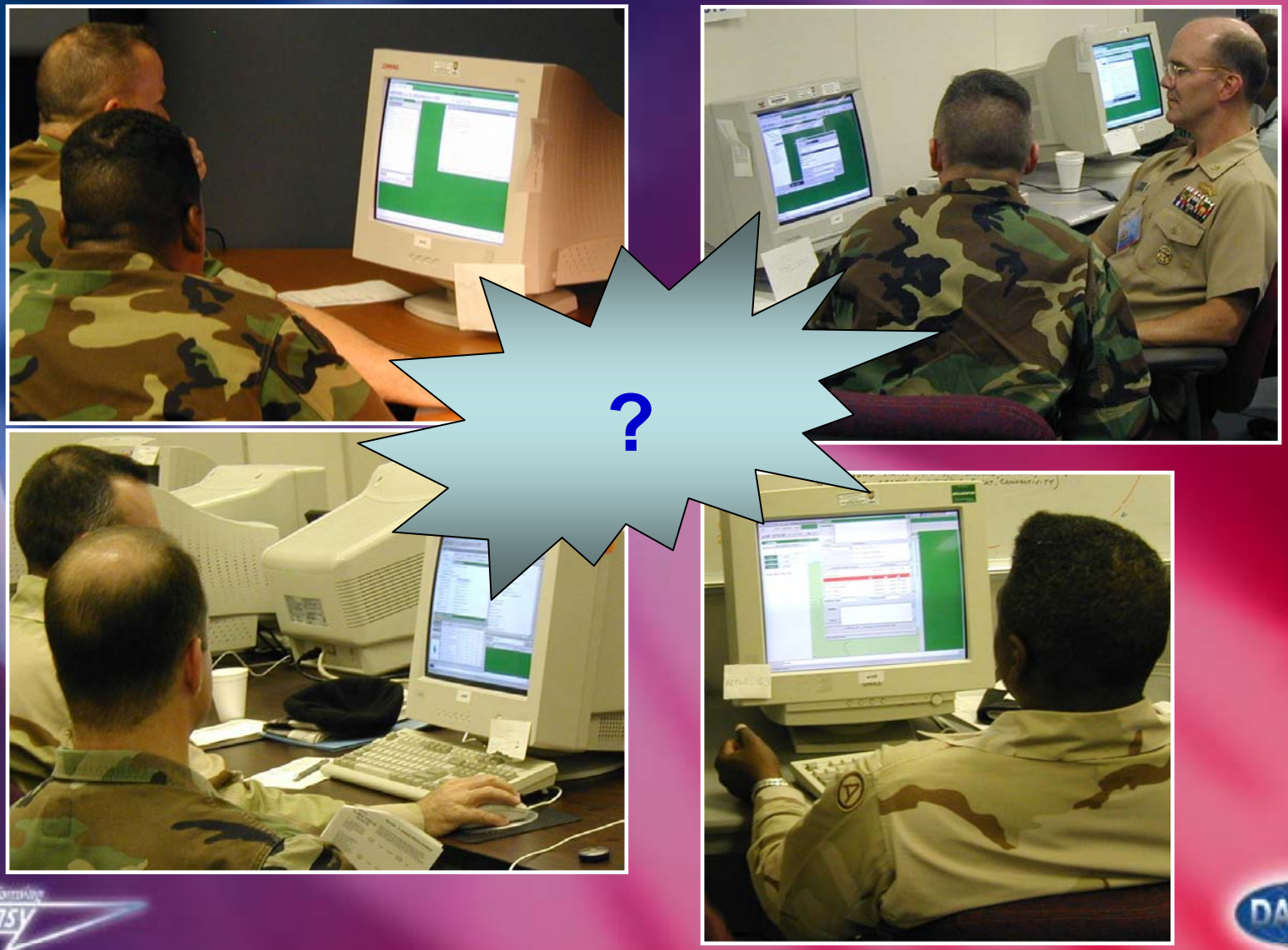
“Collaborative” Solution?



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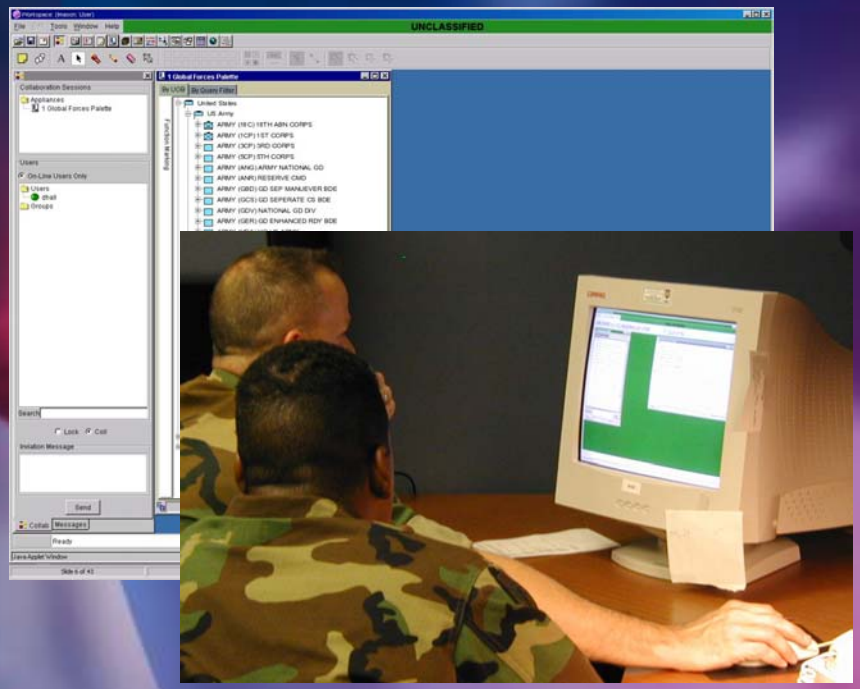
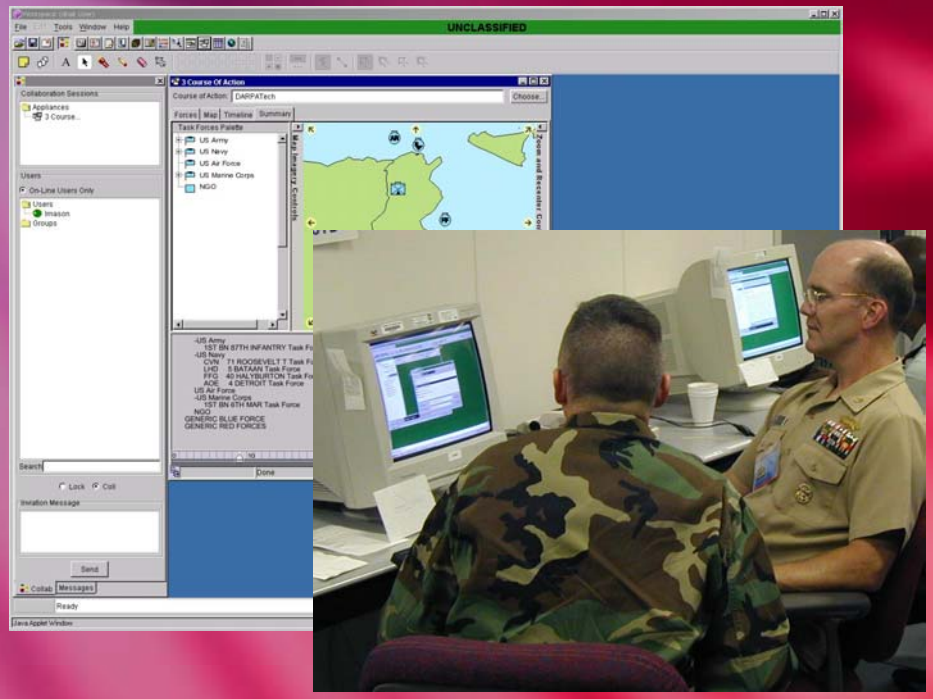
Human Collaboration



Collaborating on the underlying DATA!



Requesting collaboration on the course of action……

Transforming Fantasy

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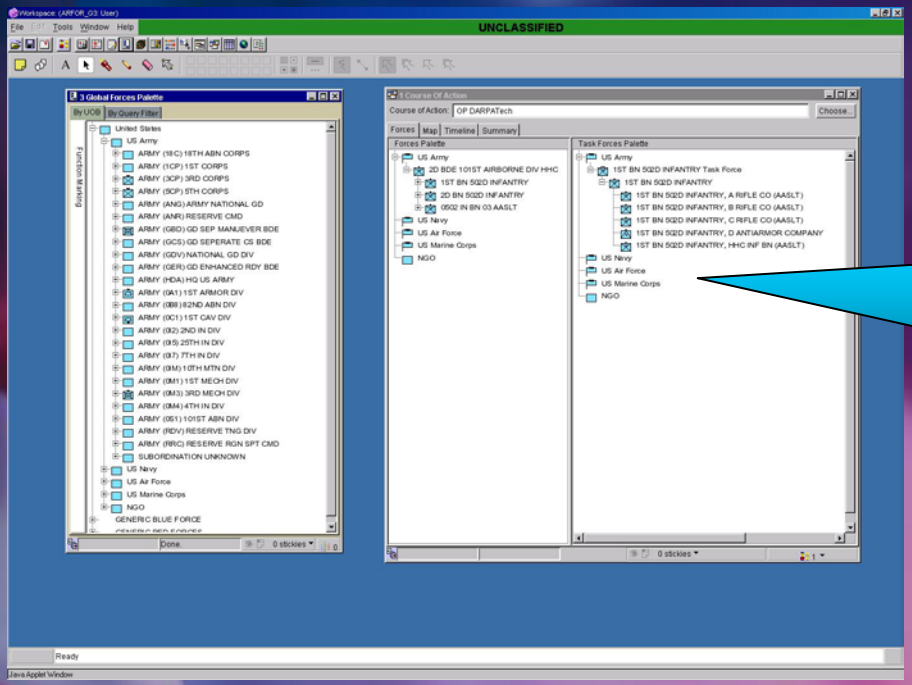
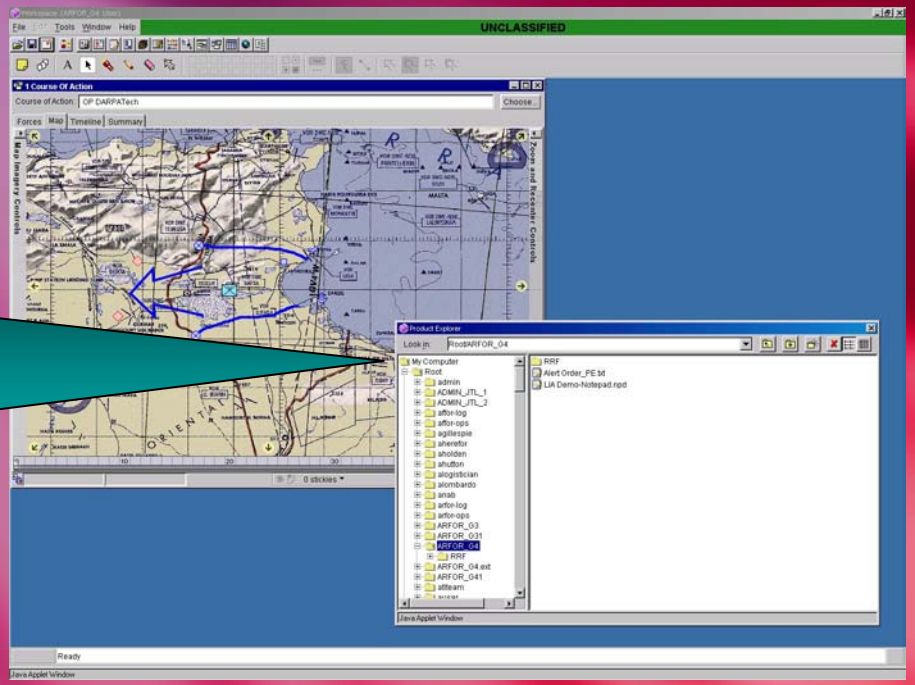
Why Is This Unique?



Operator shares the COA portion w/ the Logistician



Logistician can now save plan data for further analysis

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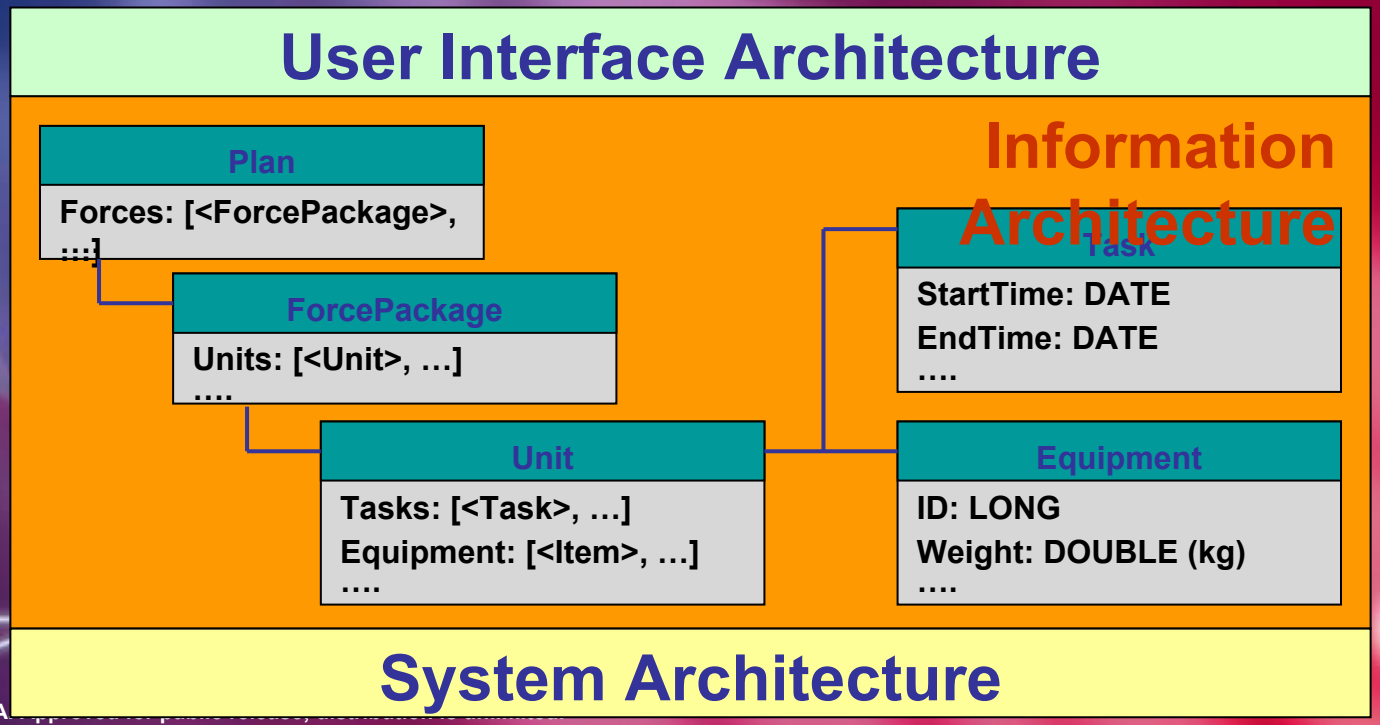
Information Architecture

User-centric entity-relationship model of the domain

- Driver for UI design and system architecture
- Underlying *Information Architecture* is entirely visible
- *IA* is exposed directly via Drill-Down and DnD



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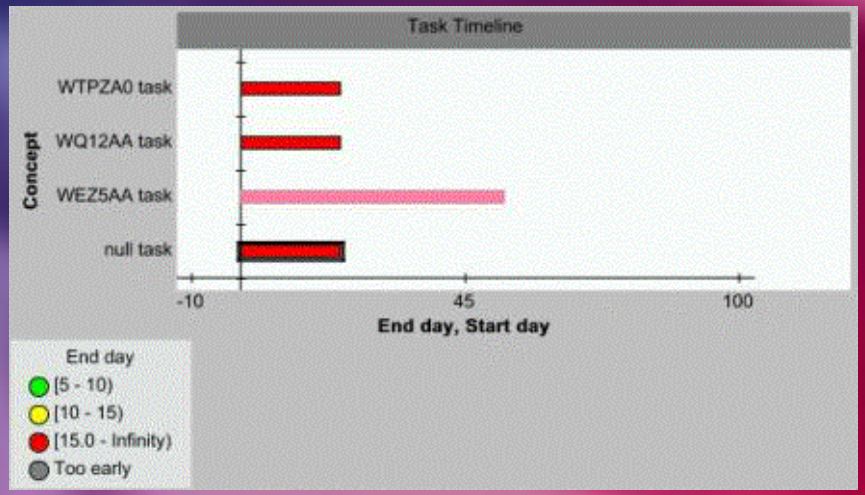
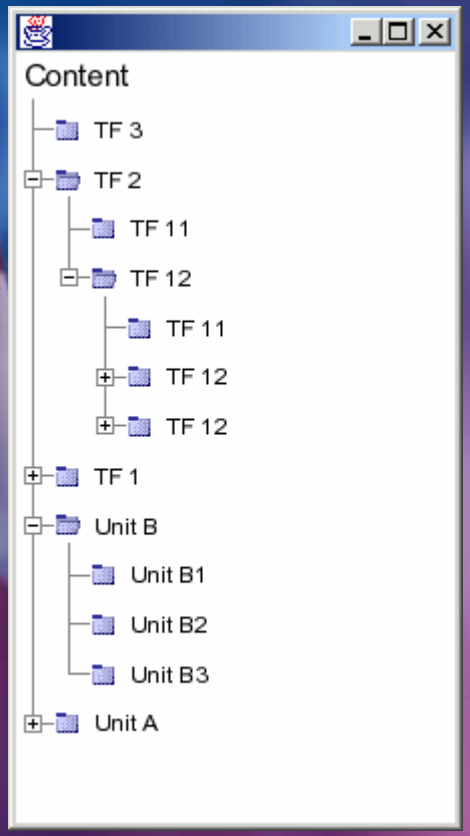
Viewing of Information

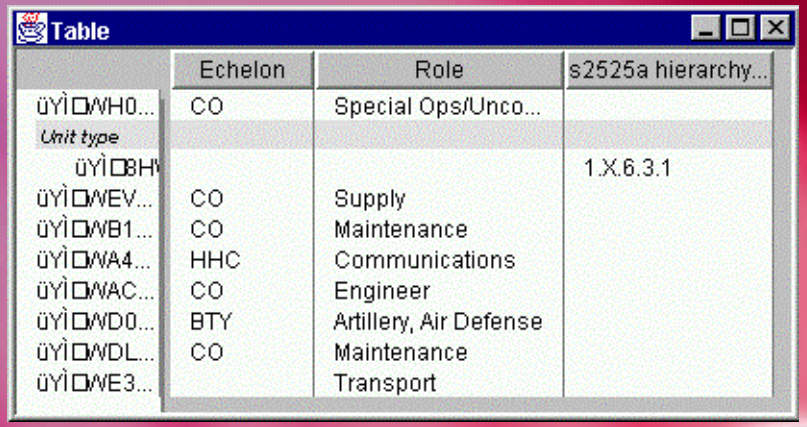
Charts



Trees



Tables



	Echelon	Role	s2525a hierarchy...
üYÌ□/WH0...	CO	Special Ops/Unco...	
Unit type			
üYÌ□8H\			1.X.6.3.1
üYÌ□/WEV...	CO	Supply	
üYÌ□/WB1...	CO	Maintenance	
üYÌ□/WA4...	HHC	Communications	
üYÌ□/WAC...	CO	Engineer	
üYÌ□/WD0...	BTY	Artillery, Air Defense	
üYÌ□/WDL...	CO	Maintenance	
üYÌ□/WE3...		Transport	

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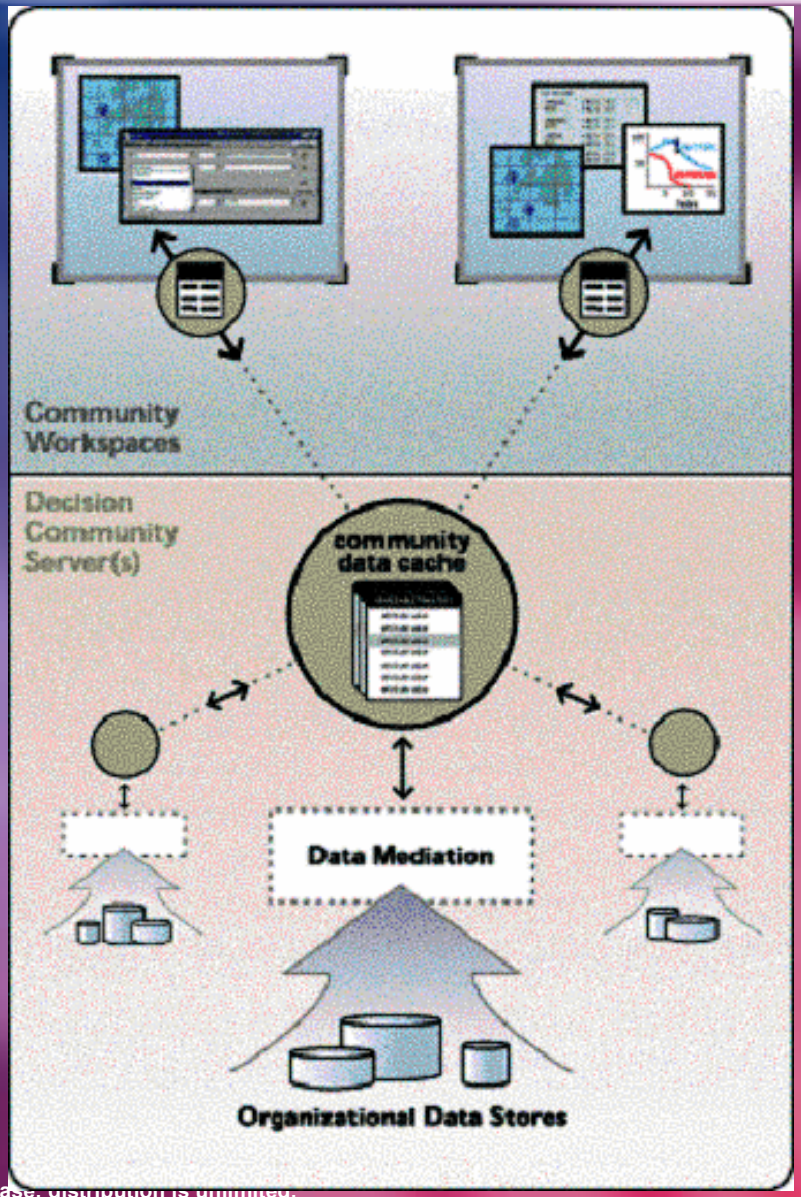
Decision Community



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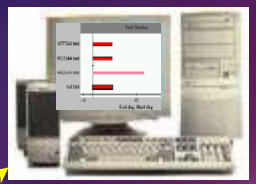
Decision Community Architecture



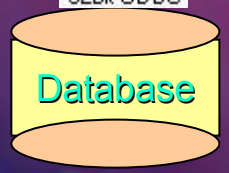
Visualization Clients

The Repository Server provides communication amongst these Visualization Clients and between the Visualization Clients and the Data Sources.

Repository Server

Model Translator

COM Interface



Flat File

WritableUformSource

Any Custom Data Source

xls File

Data Sources

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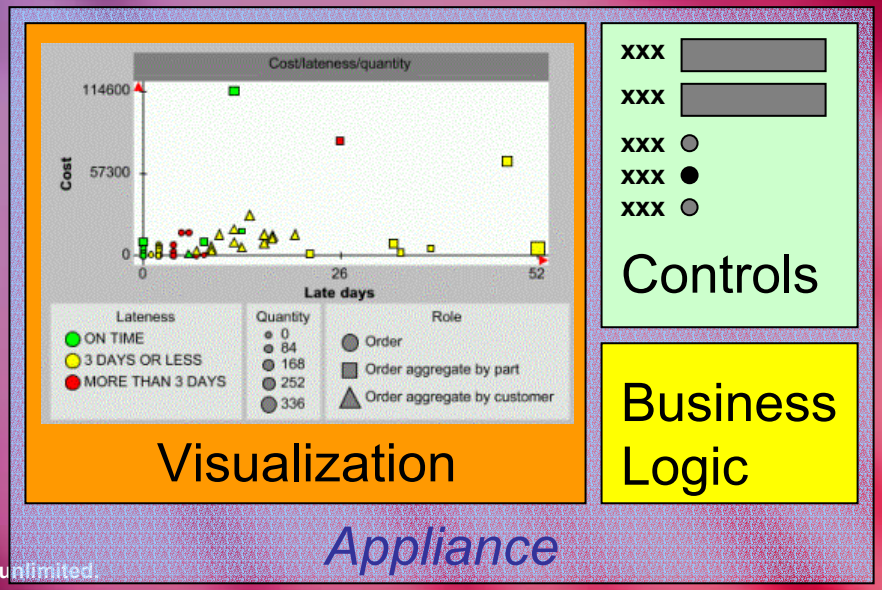
Appliance

- Visualization Component with custom controls & business logic
- Most solutions consist of a series of tailored Appliances
- Typical use of *JTL VizFramework*:
  - Build custom Appliances from Java components
  - Plug custom Appliances into the JTL Workspace
- Central operation in Workspace is dragging Uforms between Appliances



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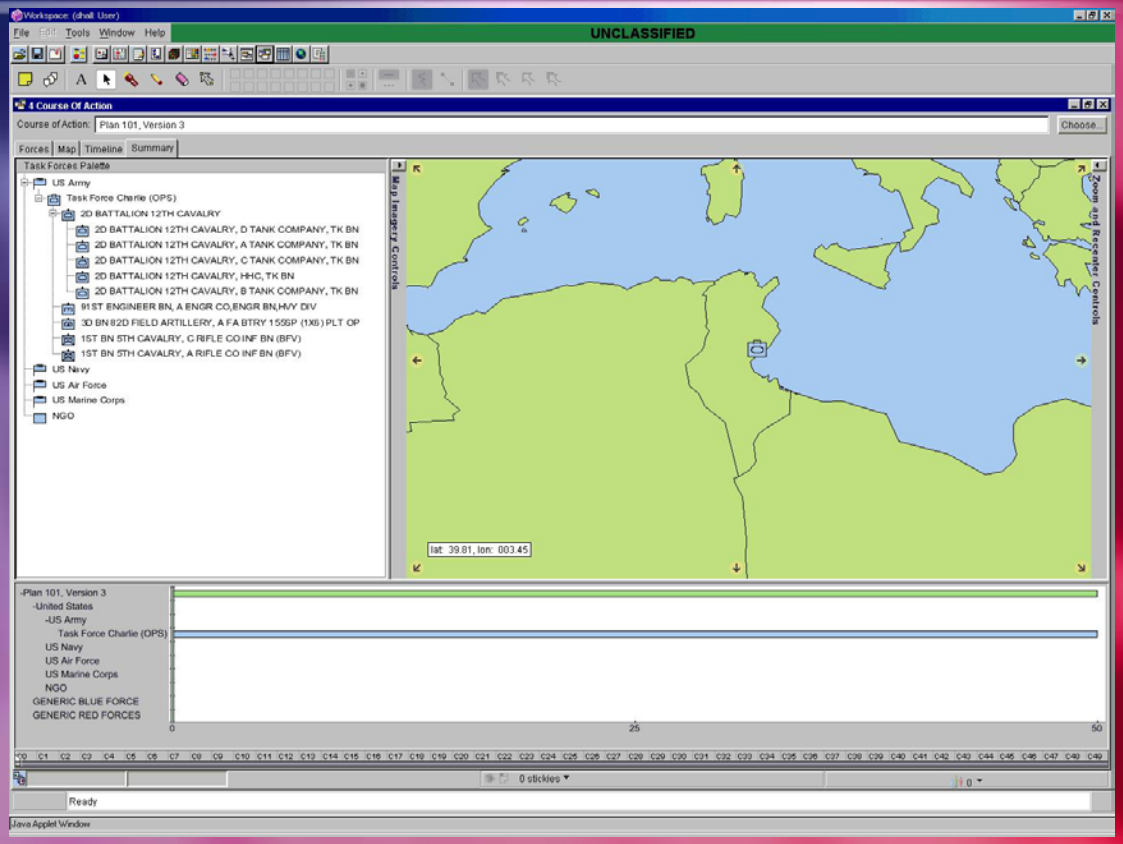
Container

Containers don't visualize data elements, but contain multiple other Appliances



Containers can be used to group Visualizations & Appliances for presentation purposes or to apply collaboration to a multitude of Appliances

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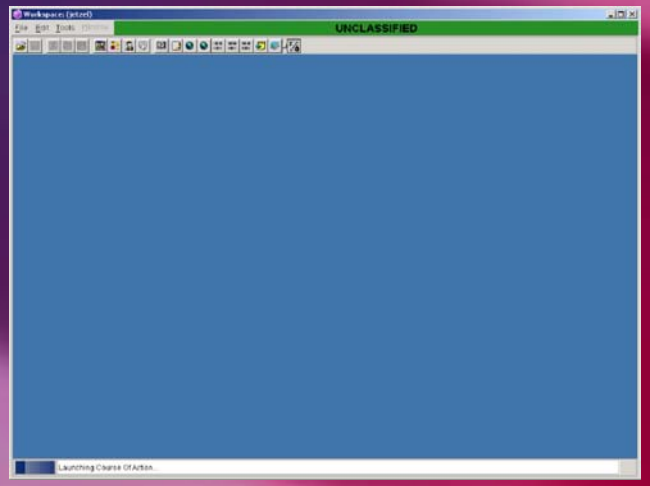
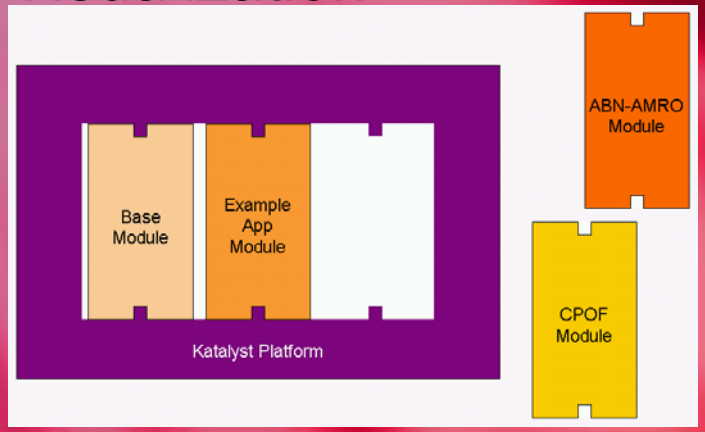
Workspace

- Hub for Visualization Components and Appliances
- Palette of Collaboration Tools
- User Account Management
- State Saving and Persistence



- *JTL VizFramework* provides a simple example Desktop (plus collaboration tools, client-server communications and data access) into which Appliances and Visualization Components can be easily plugged into



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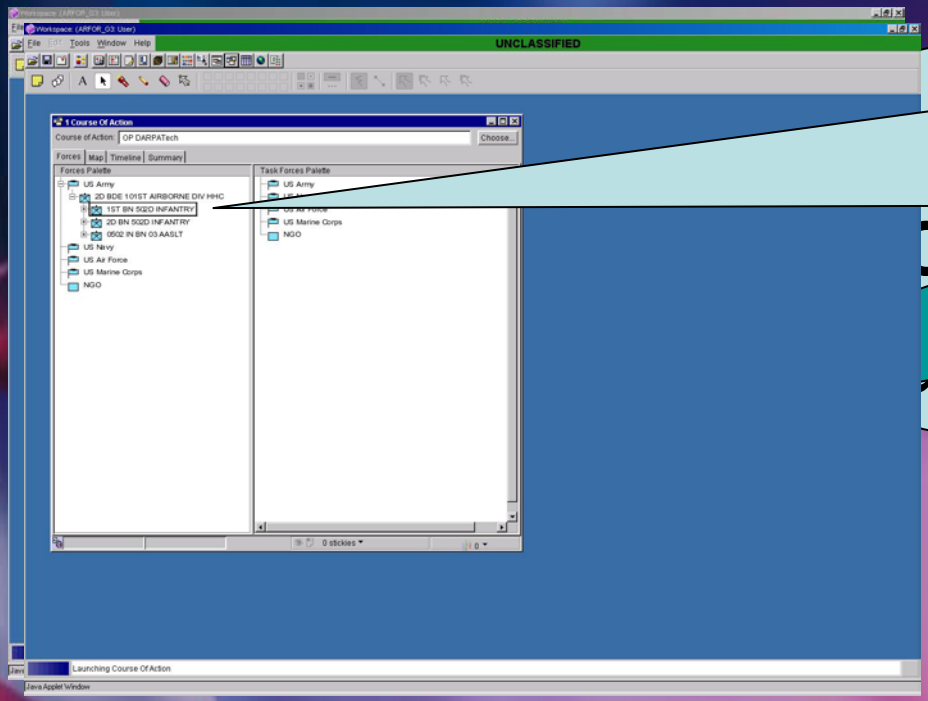
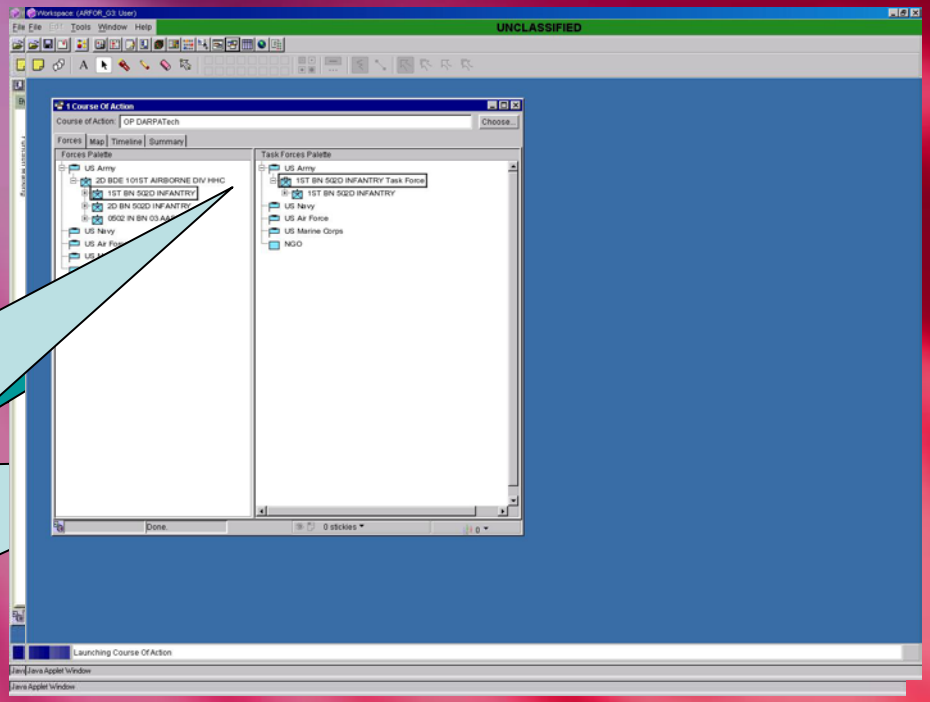
Drag-And-Drop



The Army Operator see the new units in the Forces Palette…



…and creates a new battalion TF in the Task Force Palette

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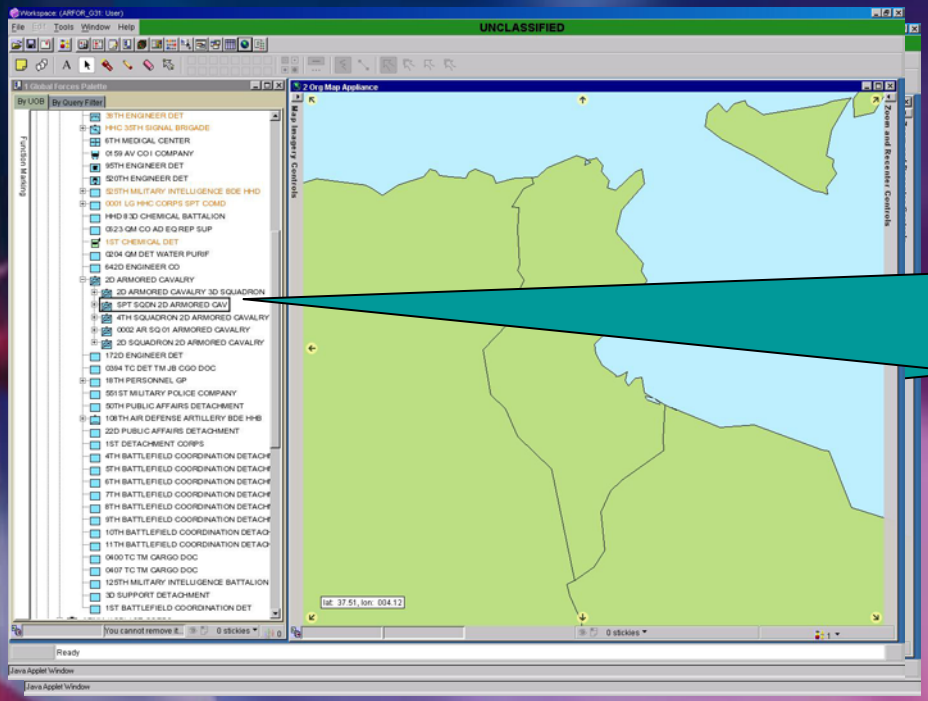
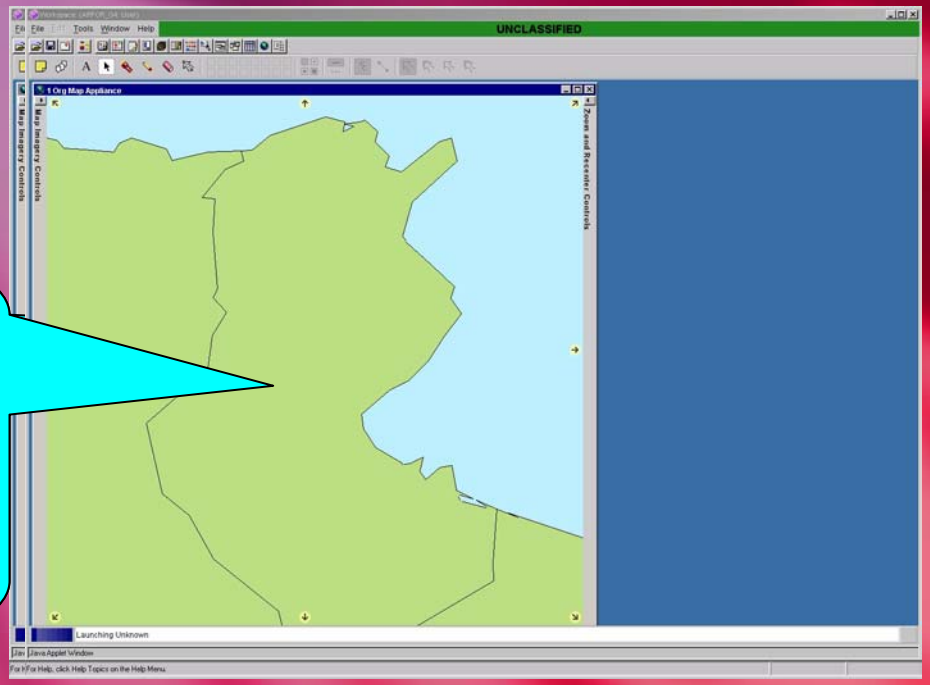
Shared Content



The ARFOR G3 will drag & drop this unit on the map…



…which he is collaborating on with the ARFOR G3

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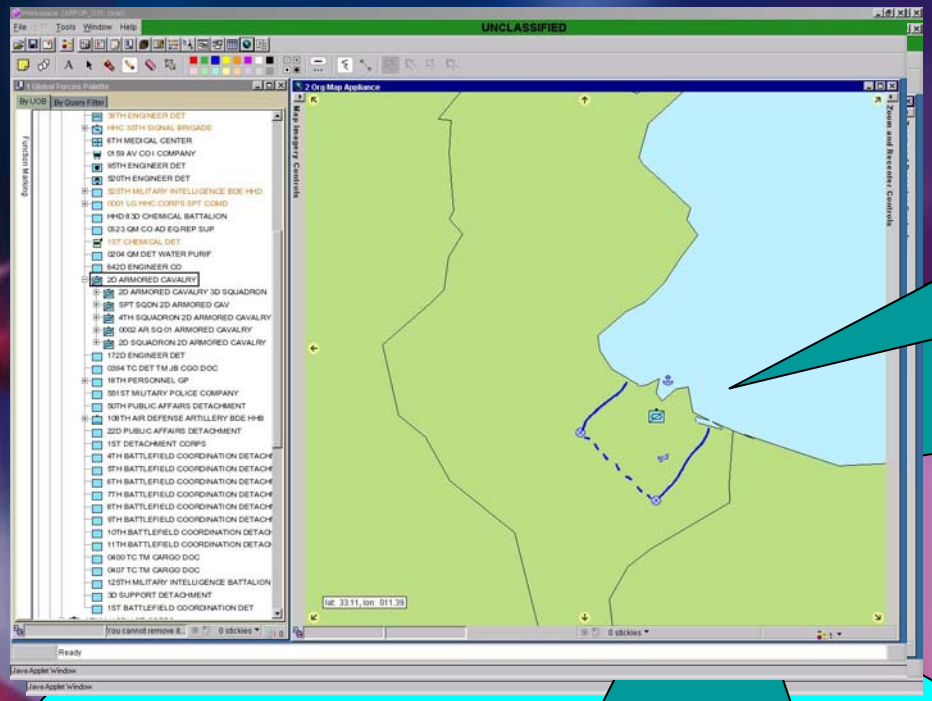
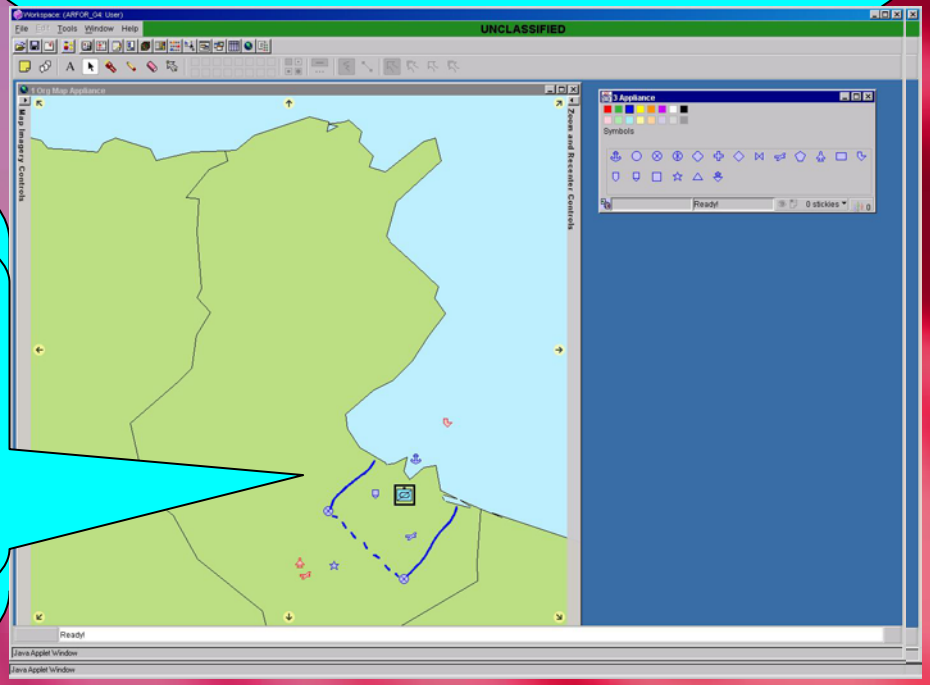
Shared Marking



The G3 has "inked" 2nd ACR AO…

The G4 drops a sticky … info about incident…



…while the G4 drags & drops various graphic symbols

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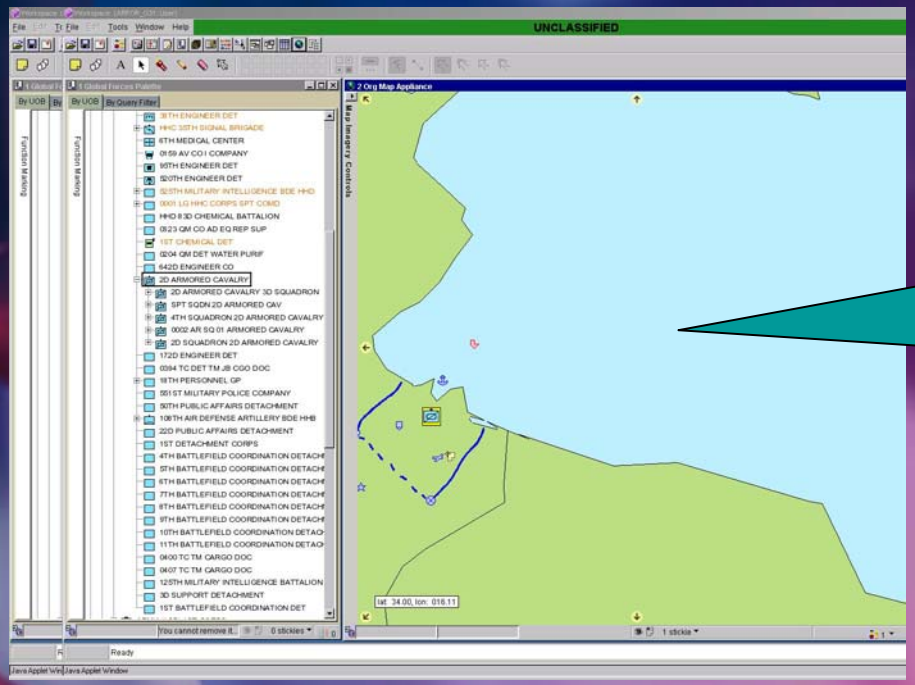
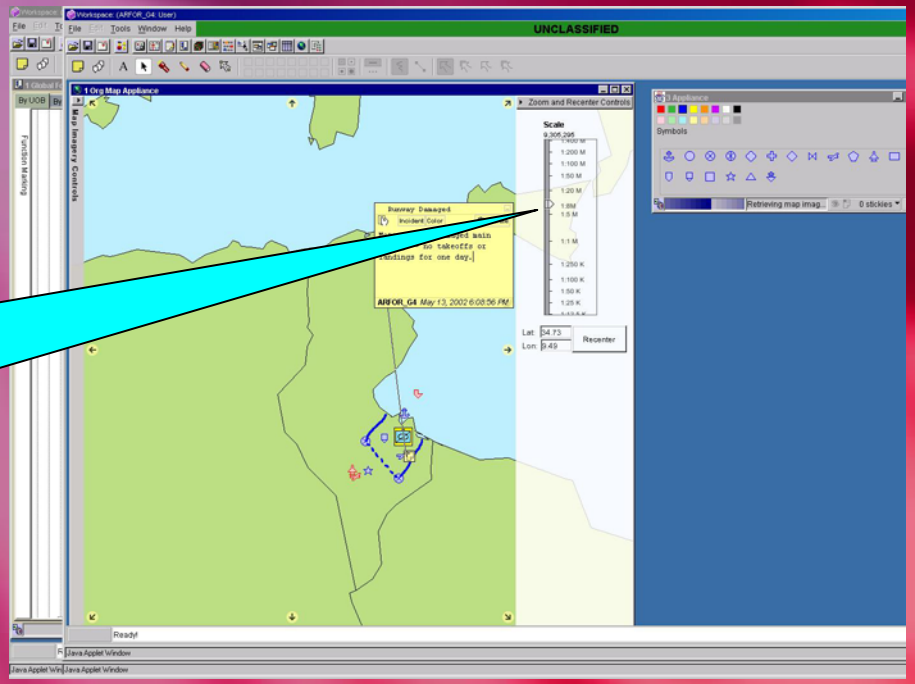
Shared Blueprint



The G3 pans right on his map…



…while G4 zooms out on his map

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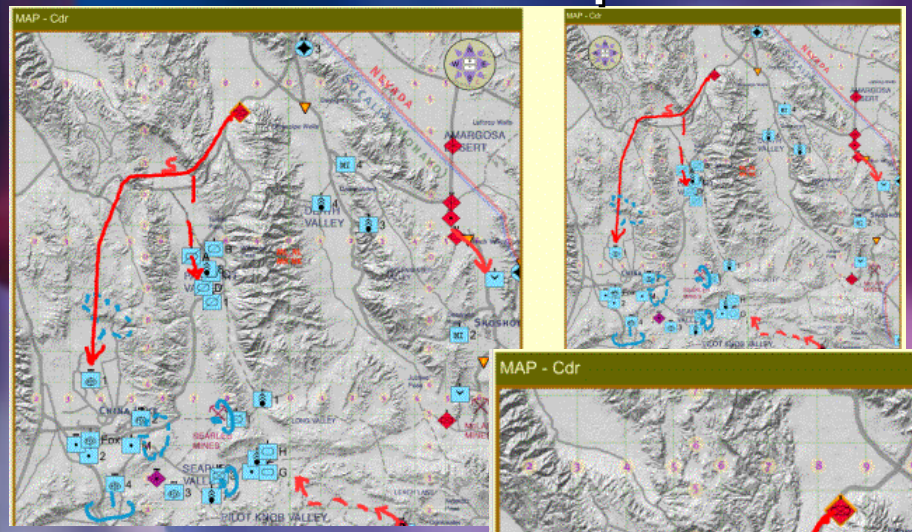
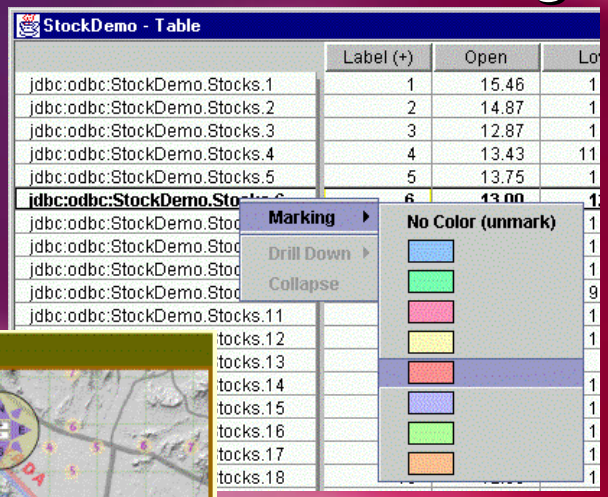
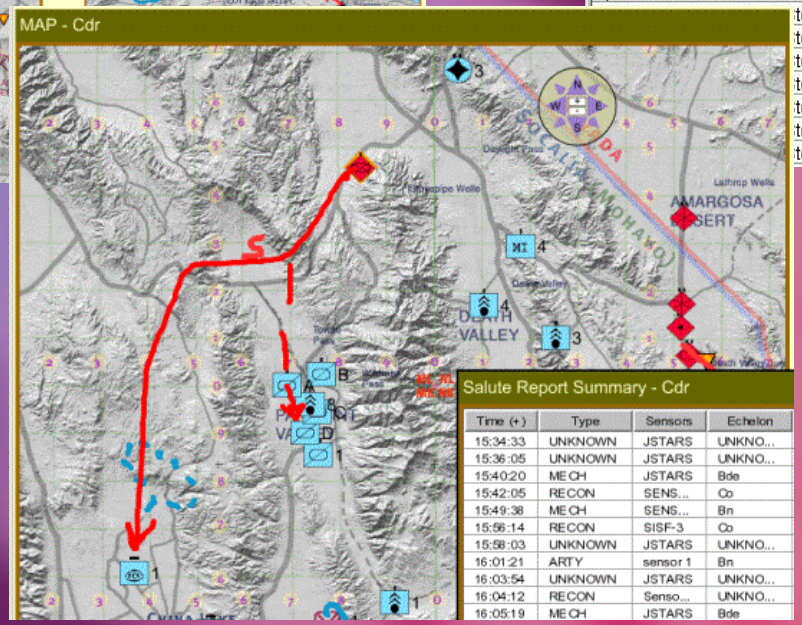
“Deep” or 3D Collaboration

Shared Blueprint



Shared Marking





Shared Content

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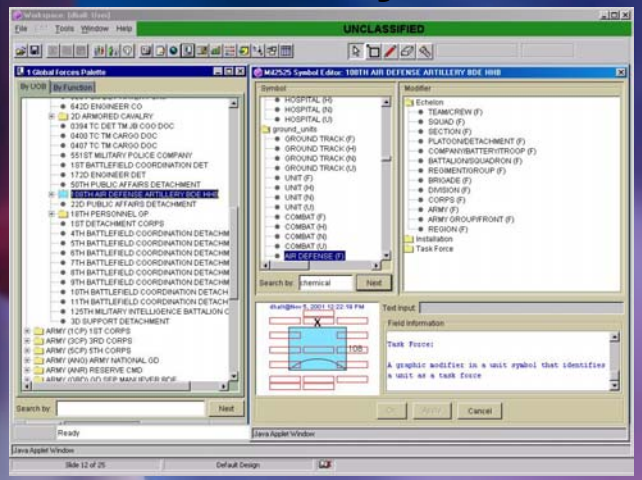
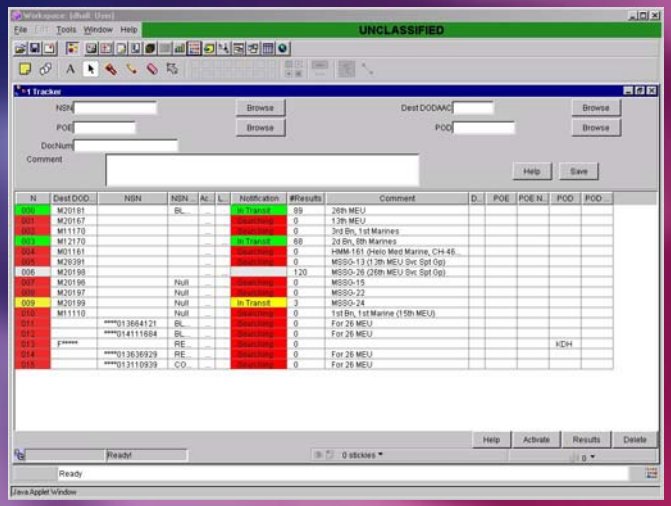
During March Exercise 3

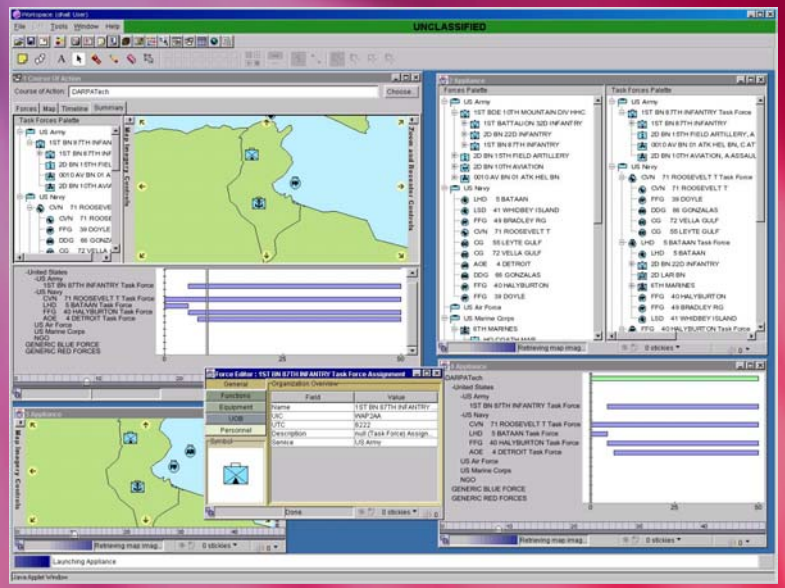
Mil Std 2525B Symbol Editor





Agent enabled Cargo and Pax Tracker sorting through GTN feed data

Global Forces Palette with Peacetime UoB from the Conventional Forces Database



The First Temporal Course of Action Planner

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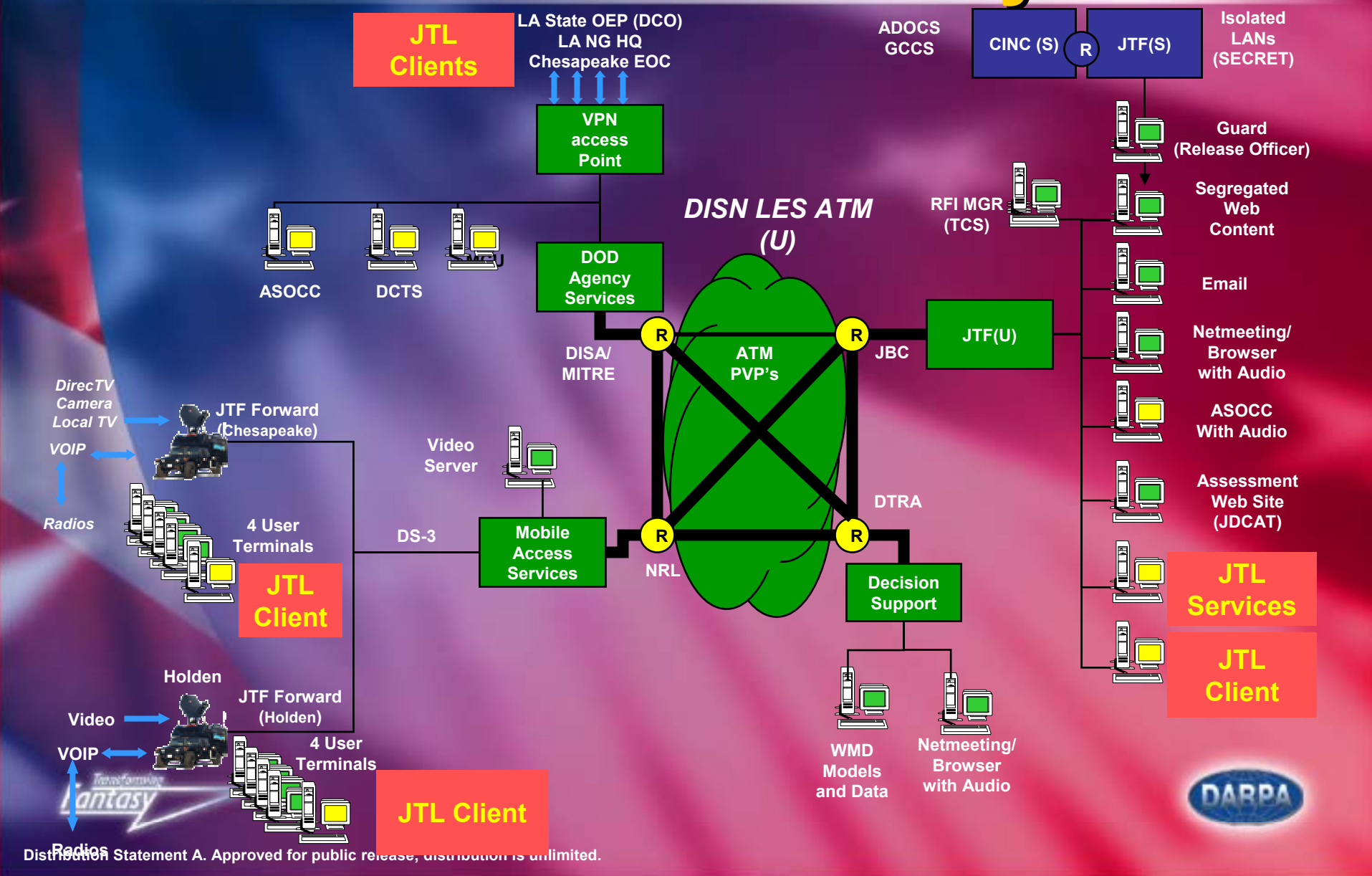
At Homeland Security Demo



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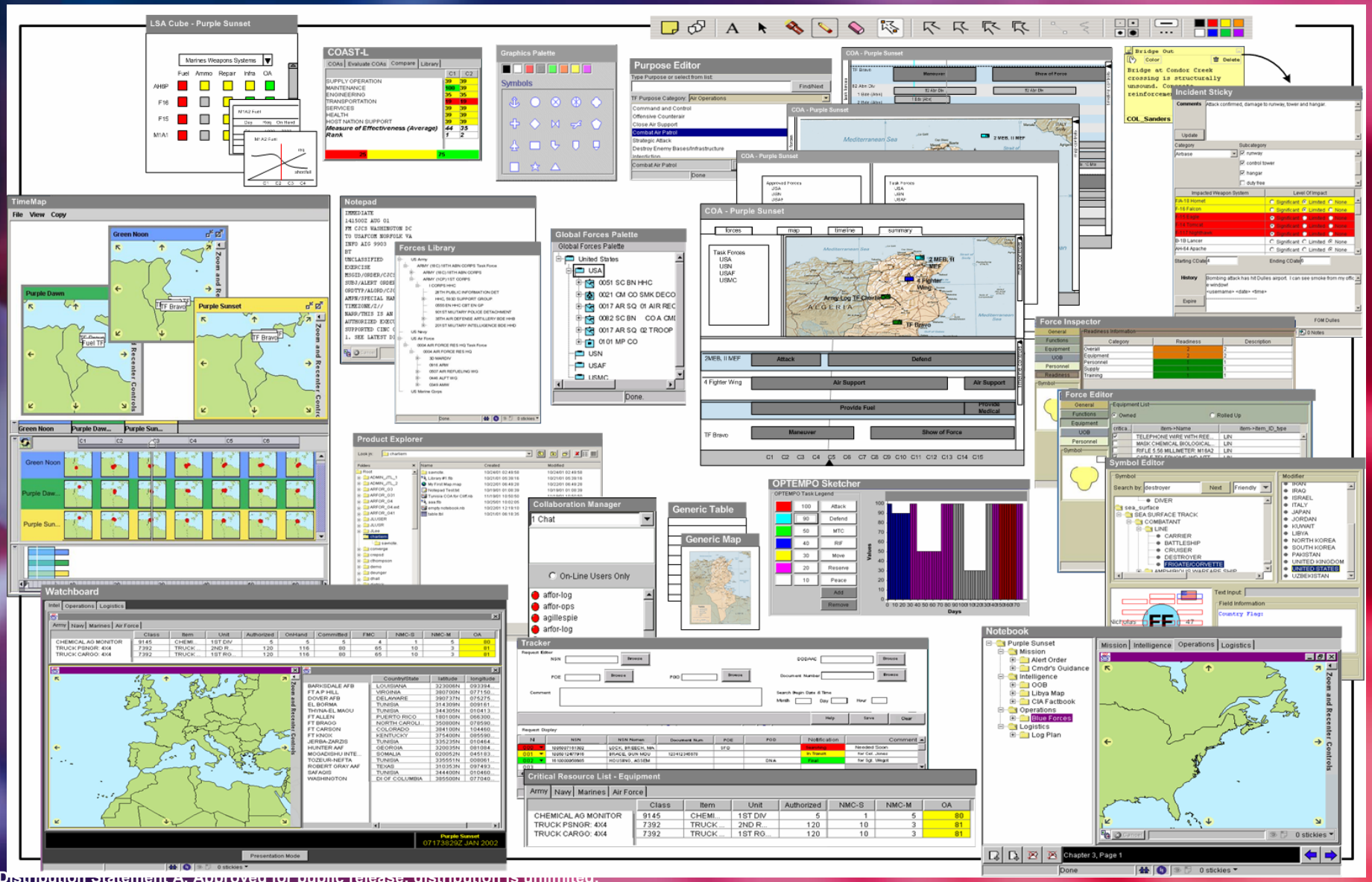
JTL Appliances



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Joint Theater Logistics

GCSS

Operations
Logistics
Collaboration

Advanced Concept Technology Demonstration

Transforming Fantasy

http://oak.man.external.lmco.com/jtl/public

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