NAVAL SEA SYSTEMS COMMAND

COLLABORATOR

Webcentric Common Collaborative Environment

NAVAL SURFACE WARFARE CENTER, DAHLGREN DIVISION

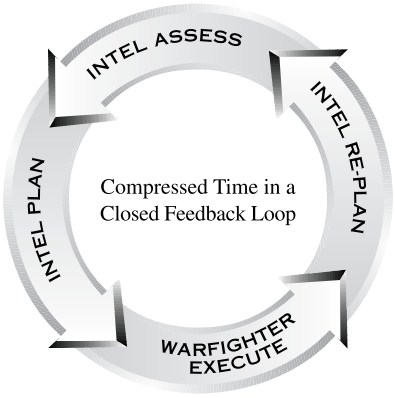
DAHLGREN DAM NECK

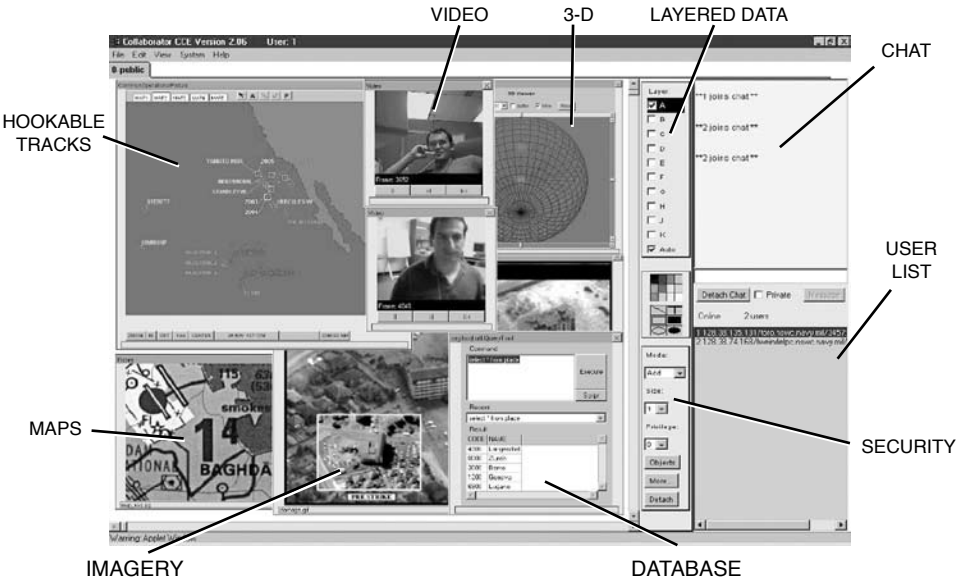
Overview

The Collaborator Common Collaborative Environment (CCE) is designed to meet a variety of applications, including shared situational awareness by providing a Web-based chat room equipped with a synchronized, multilingual, multilayered, multiprivileged, multimedia whiteboard. User log in requires using just a commercial off-the-shelf (COTS) Web browser, for anytime/anywhere 24/7 availability. CCE is especially useful for the disadvantaged user operating in a constrained bandwidth environment, from a U.S. Navy destroyer to a local sheriff's department.

Features (Patented)

- Web based: Runs in a COTS Web browser.
- Active moving content: In addition to still imagery, the whiteboard can include a collaborative common operational picture with live, moving, hookable tracks; full-motion annotated streaming video; and database mining agents.
- Logical separation of data: Objects can be placed and annotated on any of 10 transparent logical whiteboard layers. Whiteboard layers can be displayed in any combination.
- Compartmentalization of data: Collaborator CCE respects rank and privilege by providing multiple group privileging schemes to hide and separate data from among the different users. Authors can chat and post information onto the whiteboard for limited distribution to the community of logged-in users. A 10-tier security access privileging scheme is implemented.
- Complete mission playback for lessons learned: Whiteboard activity may be logged together with chat room activity. Whiteboards and documents can be stored for later retrieval.
- Language translation: The user interface changes to North Atlantic Treaty Organization (NATO) languages.
- Standards compliance: Collaborator CCE can run third-party Java applets on the whiteboard.





Concept Validation

Collaborator was installed aboard USS *Blue Ridge* (LCC 19) (COMSEVENTHFLT) for demonstration and validity checking of the collaboration concept for command, control, communications, computers, collaboration, and intelligence (C5I). The product was found to have applications in mission planning, weather forecasting [meteorological/oceanographic (METOC)], telemedicine, logistics support, and training. Collaborator is envisioned to support digital multimedia communication of information in a 24/7 secure environment with dispersed personnel across time, geographic, and language barriers. The goal is to enable personnel to collaboratively make command decisions in less time with a greater certainty of the information through teamwork, data mining, and intelligent agent technology.

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