

**The Open Architecture Approach to Mission Operations: DMOC to MPOC - A Success Story**

Patricia Klein  
Naval Research Laboratory  
4555 Overlook Avenue, SW  
Washington, DC 20375-5354  
ph: 202-767-6636 fax: 202-767-1952  
pklein@nrlvax.nrl.navy.mil

Todd C. Probert  
Anser Corporation  
Crystal Gateway 3  
Suite 800  
1215 Jefferson Davis Highway  
Arlington, VA 22202  
ph: 703-416-3209 fax: 703-416-3282  
probertt@anser.org

When the Air Force Miniature Sensor Technology Integration Program (MSTI) was in the market for a flexible and responsive operations concept to accomplish all of the objectives slated for its third mission, MSTI-3, they selected the Naval Research Laboratory's mission control facility located in Alexandria, Virginia. This facility, most recently developed as the Clementine/DSPSE Mission Operations Center (DMOC), was used as the primary operations center for the highly successful Clementine mission. The open architecture approach employed during the DMOC design enabled the

MSTI team to quickly and cheaply reconfigure the facility for use as the MSTI Payload Operations Center (MPOC). This facility's use of an open architecture approach, coupled with a layered configuration control approach and the use of commercial, off-the-shelf hardware and software as a design philosophy is a model for the new standard of satellite control facilities that must allow rapid cost effective development and reconfiguration to pace today's space paradigm of faster, better, and cheaper programs.