10F

Component- and Web-Based Ground System Architectures

Breakout Chairs: Dan Smith – NASA/GSFC
Russ Abbott – The Aerospace Corporation
Session Topics

• **Message Oriented Middleware, Web Services, Agents**
  – What are they? What has been accomplished?
  – What are the benefits we’ve seen? What is the potential?
  – Are they the “latest crazes”, “the way to go”, or both
  – Are any of these approaches really practical for ground systems?

• **Can we, as an industry, pursue a common approach?**
  – Can we expect to create multi-vendor “plug and play” control centers?
  – Should we?
  – How would we go about doing it?

• **Are industry standards the answer?**
  – What would we standardize?
  – Who’s in control?

We seek the audience’s participation in answering these questions.
New approaches have many common traits and benefits, but no common diagram style.
10F Presentations

1. Using Message-Oriented Middleware to Integrate Legacy Applications and Commercial Off-the-Shelf Products – The RADIUM Case Study
   • Jared Stallings - Raytheon Intelligence and Information Systems

2. Telepresent Agents - A New Paradigm for Sharing Information in Networked Systems
   • Russ Abbott - The Aerospace Corporation

3. A Modular, Data Driven System Architecture for GSFC Ground Systems
   • Everett Cary - Emergent Space Technologies, Inc.

4. Successes of Component-Based Approach in Similar Industries
   • Gamal Balady - Mass Group

10F includes presentations, panel discussions, and group discussions.