Ground System Architectures Workshop



Manhattan, Beach CA. March 29 - April 1, 2004



Breakout Chairs: Dan Smith – NASA/GSFC

Russ Abbott – The Aerospace Corporation

10F 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?

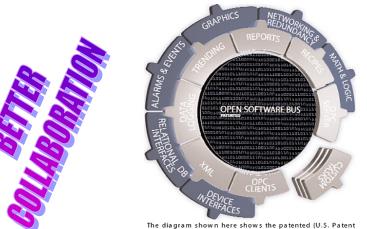
• Are industry standards the answer?

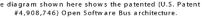
- What would we standardize?
- Who's in control?

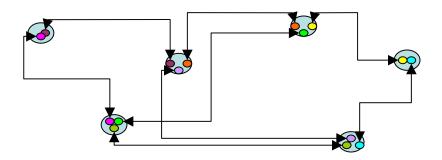
We seek the audience's participation in answering these questions.

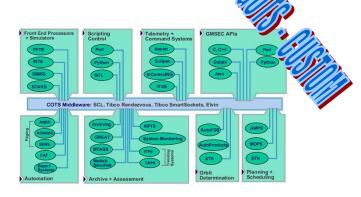


New approaches have many common traits and benefits, but no common diagram style.

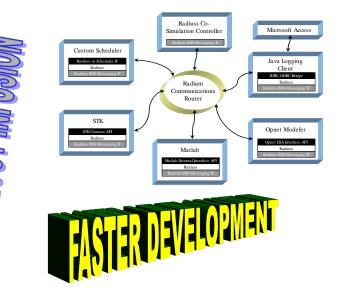








LOW COST INTEGRATION



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.