

# Specification-Based Space Operations Center Architectures

*What Are They and How Can We Get  
There?*

GSAW2003 Panel

Mary A. Rich





# History

- ◆ Conference founded with goal of establishing standard space operations system architectures, as a start
  - Benefits beginning to be recognized, but stovepipe solutions
  - Most advances in space/ground communications standards and technology



# Position

- ◆ We know TT&C and this part of the GS should cause us very few issues!
- ◆ Acquirer must lead specification-based architecture definition
  - Consensus definition of TT&C components (services and infrastructure) with well defined interfaces



# How Do We Get There?

## ◆ Challenges

- Specification via consensus, government or contractor led
  - Acquirer requires compliance and ensures evolution
  - Engage in OMG Space Domain Task Force
    - AIAA or alternate forum
- Strategic planning to build organizations, business cases and acquisition strategies (short and long term)
  - Acquirer
    - Take leadership role in definition and evolution of specification
      - Change incentives and rewards
      - Encourage new technologies and innovation
  - Developer
    - Change business case and price structures to ensure viability

## ◆ Continue work at next GSAW