Summary of GSAW 2000
Plenary Sessions
Outline

- Themes in common with previous GSAW’s
- Emerging or newly expressed themes
Consistent GSAW Themes

- Searching for ways to make ground systems less costly to develop, modify and operate
- Desire to use COTS, COTS and more COTS
- Desire for “interoperability” through standards
- Interest in the use of reference architectures/product lines
- Architecture as a key to success - Architectural analysis and evaluation as an aid
Some Newly Expressed Themes

- A growing recognition of the full impact of COTS use
- An growing experience base in the use of product lines and reference architectures
- A growing interest in Internet standards
Recognition of the full impact of COTS

- COTS software is: inevitable, not a panacea, more difficult than you think
- The user community wants it and expects it
- The importance of prototyping and evaluating in a real system context (CERES, Battle Labs, …)
Recognition of the full impact of COTS

- The government’s way of doing business needs to change
  - Willingness to accept requirements flexibility
  - Planning for continual evolution
  - Accounting for architecting and O&M costs

- How do we institutionalize these lessons learned?
Experience-Base with Product Lines and Reference Architectures

- CCT as a product line that is beginning to be used
- Work by the Space Object Technology Group and now the OMG
- An acceptance of architecture as a key to success
- Some experience with doing architectural evaluation
Experience-Base with Product Lines and Reference Architectures

- A growing set of tools for doing architectural tradeoffs
- New technologies that support architectural flexibility
- How do we capitalize on all this progress while evolving legacy systems?
Beyond the use of “commercial” standards, now the emphasis is on following the standards that are driven by the Internet market place - bye bye IDL, hello XML?

An obvious interest in the community to get together on standardizing parts of the space domain using XML

How do we capitalize on this interest?