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Summary of GSAW 2000 Plenary Sessions

GSAW2000



Outline



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- **Themes in common with previous GSAW's**
- **Emerging or newly expressed themes**



Consistent GSAW Themes



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- **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**

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Some Newly Expressed Themes



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- **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



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- **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



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- **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



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- **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



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- **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?**



Growing Interest in Internet Standards



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- **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?**