

— *Breakout Session Summary* —



## Collaboration & Standards

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*Session #9C*

Session Chair: Peter Shames

NASA / JPL



# Session Goals

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- Identify benefits of collaboration to develop standards
- Clarify incentives for developing standards
- Understand barriers and problems from organizational point of view
- Identify standards issues that could usefully be tackled



# Presenters/Panelists

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- Sam Bowser, Aerospace Corp / NRO
- Gerry Simon, LMCO / CERES
- Takahiro Yamada, JAXA / ISAS
- Don Zavodnik, Lockheed Martin



# Key Points - Barriers

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- Standards are for the next guys, not us
- Need industry to pick up the ball on standards, but industry needs customer “pull” and \$\$\$
- We are all solving the same problems, over and over again
- Funding, timing, and loss of control are barriers to use / development of standards
- Certification is a major problem
- Large vendors don't want standards, small ones can't afford to support development
- Hard to get govt acceptance of standards



# Conclusions

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- Stakeholder involvement in standards forum is essential, govt, civil, and commercial partners, each must benefit
- Need to consider “branding”, certification, independent validation process
- A standard reference architecture or framework with identified interoperability points is required to understand how pieces fit together
- Need “architecture board” to hold vision and ensure consistency and integration
- Functional elements in most approaches are very similar, but need to clarify boundaries and terms
- Standards must be validated, demoed, and have reference implementations made freely available