

Session 10D: WORKING GROUP DESCRIPTION

Flight Projects continue to feel pressures to reduce the costs of developing and operating ground systems without sacrificing quality or driving up risk. One obvious (but not necessarily straightforward) solution is to adopt a multimission approach to ground systems. In this session we examine and discuss some of the basic architectural principles of multimission ground systems, some of the architectural choices to be made, and some of the challenges of creating and maintaining multimission systems. Panelists have been selected to present their viewpoints and to help prompt discussions by all of the attendees along three basic topic areas:

- 1: Facing the Multi-Mission Challenge: It's more than hardware and software**
- 2: Engineering a Solution: It is all about the hardware and the software!**
- 3: Multi-Mission Management: Keeping it all under control.**

Mission E
Mission A
Mission D
Mission C

Mission B

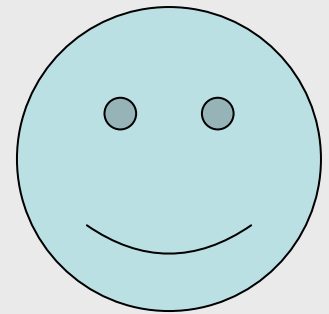
Realities



+

Multi-
Mission
Support
Magic

?
=



Success

How?
Added risk?
Who?
Really?

Where do multimission savings come from?

What can we share across missions?	But . . .
Hardware	Machines are cheap
Software	The missions are not the identical, it costs more to design for mutli-use
Architecture	Do the ops folks and managers even care? I like my old way.
Data Base Formats	But is there a common format yet?
Operators/Engineers	It is a lot to learn
Physical Control Room Area	Does it really save anything?
Displays, Procedures	The satellites are different
Management	Would it really make a difference?

- Should long-term cost reduction be the primary driving force?
 - If so, can we always assume that finding common ways to manage multiple space assets will save money?
 - Is it more about risk reduction?
 - Do some missions require common operations
 - If each mission has its own tightly-controlled budget, how can you ever get to a multi-mission implementation?
 - If you don't have a multi-mission approach, how can you ever be sufficiently cost-effective to win new mission?
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- Working Group Chairs and Panelists

- Duane L. Bindschadler JPL
- Dan Smith NASA/GSFC

- Panelists

- Paul Ondrus SGT, Inc, supporting NOAA
- Magdi Carlton JPL
- Dave Linick JPL