Components, Frameworks, and Web/Grid Services for Ground Systems

- Speeding development
- Crossing boundaries
- Enabling collaboration
MOC Components

- Modular operations components using domain standards
- Component integration with little/no effort
  - Reduced integration time
- System extensible at minimum expense
- Minimal effort to replace components
  - Avoids vendor lockout
  - Supports planned obsolescence
- Highly reusable

MOCs as Components

- Provides services over network
  - Breaks down stovepipe barriers
  - Crosses administrative domains
  - Supports federated missions, virtual fleets, and distributed applications
- Provides security as part of infrastructure
- Replaces concept of centralized responsibility
MOC Grid Services

- System dispersed through many multi-purpose nodes
  - Massively parallel
  - On demand scalability
  - Highly reliable
- Administration services provided in tandem with functional services
  - Operational parameters controlled by administrator
  - Simple “upload once” deployment
  - Provides full accounting
- Faster development
  - Simple programming model
  - New services can leverage, but not affect, existing services