Ground System Working Group
The Ground System working group will develop a platform independent Service Oriented Reference Architecture for future Ground Systems.

This architecture will result in Ground Systems that will be cost effective, modular and ‘plug and play’ and provide the capabilities fundamental to Net Centricity:

- Open standards based
- Composeable
- Extensible
- Interoperable
- Scalable
Objectives

- Collaborate with NCOIC members, other working groups, government agencies and standards bodies to develop a platform independent Service Oriented Reference Architecture model for future Ground Systems
- Assure that the architecture describes Ground Systems that will be cost effective, modular and plug and play and provide the capabilities fundamental to Net Centricity:
  - Open standards based
  - Composeable
  - Extensible
  - Interoperable
  - Scalable
- Make the model general enough so that it is neither ITAR sensitive nor dependent on any specific platform, technology or vendor.
- Work to have the architecture adopted as an international standard.
Strategies

- Develop working relationships with NCOIC working groups, members, government agencies, and commercial concerns to assure an architecture that meets the needs of these parties - their various sensors, vehicles, forms of data collection and instrumentation.
- Create a formal model of the architecture utilizing UML2 (and SysML and DoDAF extensions as appropriate) to assure rigor and efficacy resulting in the widest adoption of the model.
- Provide at least one set of concrete, language specific, reference Interfaces (e.g., Java), as defined in and generated directly from the model, sufficient to assure that the model is realizable
Expected Outcomes

- Adoption of NCOIC tools and techniques throughout the member and customer community.
- Strong working relationships with various agencies.
- Ability of our members to develop highly efficient Ground Systems that can integrate and interoperate with any other Ground System.
- Ground Systems that are interoperable, agile, affordable and extensible.
Business Innovation & Optimization Services
Facilitates better decision-making with real-time business information

Process Services
Orchestrates and automates business processes

Access Services
Facilitates interactions with existing information and application assets

Infrastructure Services
Optimizes throughput, availability and performance

ESB Facilitates communication between services

Integrated environment for design and creation of solution assets

Manage and secure services, applications & resources
Architecture Overview - Tiered Service View