



Ground System Working Group

The Ground System Working Group Charter

- **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.**

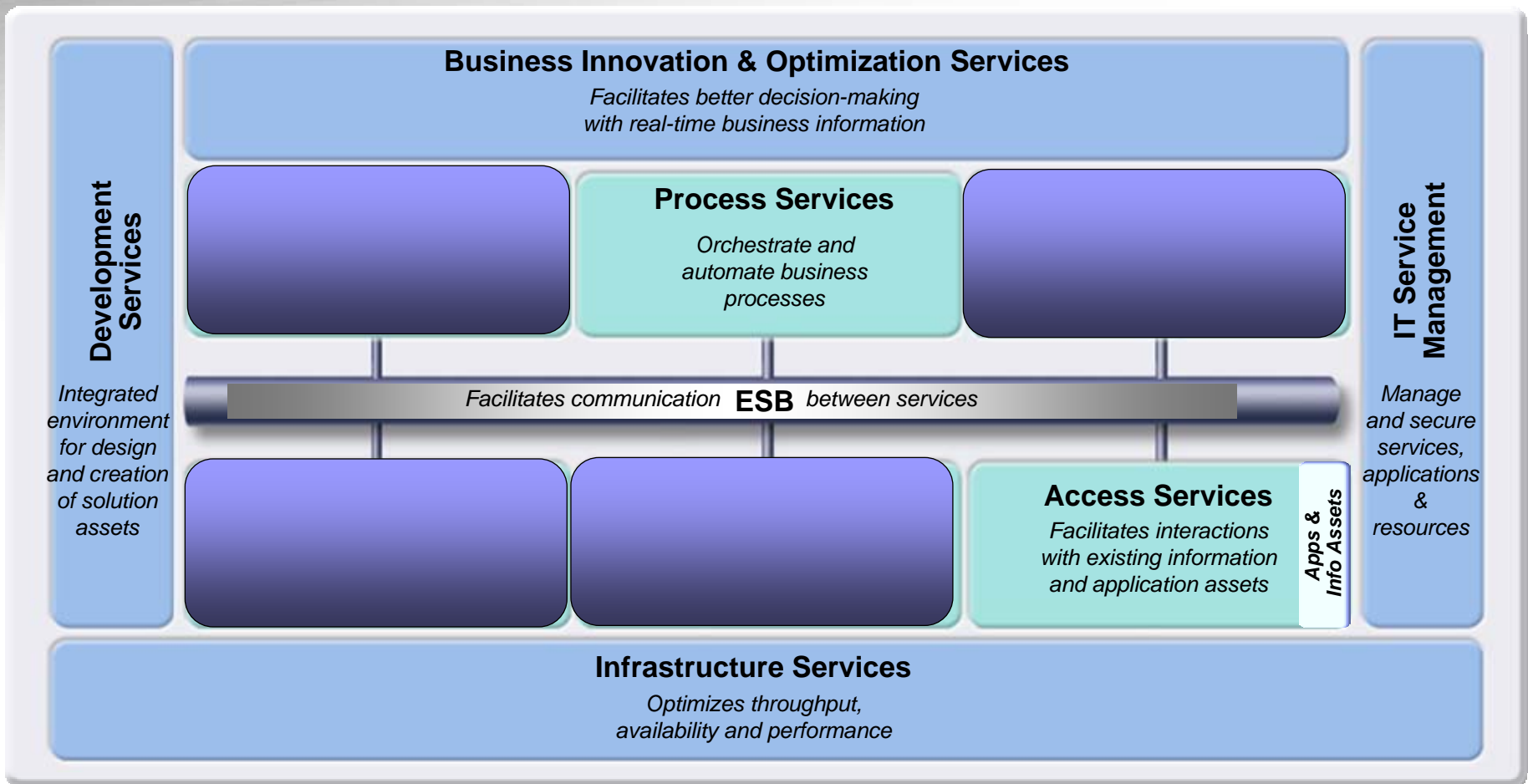
Strategies

- **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.**

Generic SOA Architecture Structure



Architecture Overview - Tiered Service View

