



Department of the Air Force
Scientific Advisory Board

**DEPARTMENT OF THE AIR FORCE
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Domain Integration Study

Abstract

The Domain Integration ad hoc study addresses the effective manipulation and transfer of information among warfighters by predominantly machine-to-machine means. More specifically, the vision derived from the Terms of Reference is: The ability to horizontally integrate multi-INT information from space, air and ground at a machine-to-machine level will enable the Air Force to rapidly and accurately integrate data and information across domains to address time sensitive targets.

The study team reviewed the current capabilities and technologies, identified an architectural approach, determined the needed technology advancements, and recommended a path through experimentation to fielding. Interoperability is an achievable goal that should be approached principally through data integration, as contrasted with system integration.

We recognize that there will be cases where system integration will be necessary to achieve a specific objective (performance, safety, and security are three such potential justifications). To achieve this goal, it is possible to start small and build incrementally, but it is very important to start with at least a critical mass (enough to get the process started and keep it running). Successful information integration efforts depend critically on elimination of barriers to information sharing across the enterprise.