

# Secure Military Information Sharing

Secure Information Sharing, Collaborative Decision Making, Situational Awareness

## Information Sharing: Mission-Critical

The success of military operations is heavily impacted by better, faster, and more responsive information exchange, enabled by superior information technology. This is because the military today needs to have a high degree of situational awareness and accommodate for distributed collaborative decision making in order improve effectiveness and to carry out large-scale military operations. This involves the rapid collection, processing, and dissemination of information across many different stakeholders (intra-military, inter-military, and larger coalitions that can include civilian organisations) and systems. Networked, integrated IT systems have the power to make information available timely and reliably, and thus improve responsive coordination and command & control. Agencies across the globe are now working on improving the fast exchange of useful information via networks. There are many benefits, including faster reaction time, improved shared understanding and situational awareness, faster / more coherent / efficient / precise / timely / concurrent / responsive actions, improved force protection, and higher degree of task automation.

## Service Oriented Architectures (SOAs), Data-Centric Architectures

To securely opened-up, interconnected, reconfigurable military information systems, many efforts are currently undertaken to design and build a common architectural standard for a joint-up, agile business-driven technology architecture. Service Oriented Architectures (SOAs), process-centric architectures (BPM), as well as data-centric architectures (e.g. DDS) are all being deployed alongside more traditional application integration platforms such as JavaEE, JMS, CORBA/CCM.

## Information Assurance: A Critical Enabler

Information assurance is a critical enabler because the success of the entire operation often depends on the confidentiality, integrity, availability, manageability etc. of the communications. Consequently, many systems can only be deployed if their assurance is accredited for use

with the military, and if the assurance meets the requirements of all involved stakeholders.

Achieving and accrediting good information security is a challenge because security is an inherently a challenge for network centric command and control, especially because evermore complex and numerous information flows between multiple stakeholders (internal and external) and across complex organisations and IT environments need to be controlled and filtered.

While achieving such agile, secure network enabled information sharing is costly, the effort and challenges need to be seen in comparison to the much higher cost of not adopting them, which results in loss of competitive advantage against adversaries, and exploding IT procurement and maintenance costs. Among the top technical / operational information assurance challenges for agile SOA deployments the lack of agile assurance accreditation and the deficiencies of traditional security policy management for agile SOA deployments.



ObjectSecurity OpenPMF lets you intuitively select business-centric security & compliance policies, which are then automatically enforced across your IT landscape (using a "model-driven security" approach). You can conveniently manage your policies at run-time, and even change your software applications and workflows without extra administration. OpenPMF reduces costs, improves security, and enables agility. Available as a packaged product and as an integrated turn-key solution.

## Products & Services

- OpenPMF (packaged product & turn-key solution)
- SimulateWorld 4D synthetic environment toolkit
- SecureMiddleware: secure open source middleware
- Services: security policy management, Web 2.0 / SOA / Cloud / SaaS Security, middleware security, training workshop, tech. support, R&D
- Studies: in-depth documents about hot topics in security, e.g. model-driven security & SOA

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