

What are virtual organisations ?

When individual organisations do not have the resources to respond to a business opportunity they can join together to create a virtual organisation that can respond.

A virtual organisation can be formed by one initiator organisation subcontracting work to others, or by sharing the risks with others through a General VO Agreement.

Virtual Organisations addressed by Trustcom use service oriented architectures including Web Services and the Grid to organise the interaction of the services provided by each member organisation.

What are Web Services ?

Web Services present programmes through standard interfaces that can be called remotely from across the Internet.

Like components, Web Services provide functionality that can be re-used without worrying about how it is implemented.

Unlike previous component technologies, Web Services use ubiquitous technologies such as HTTP and XML.

The Grid extends individual Web Services to provide information about their internal states, so that they can be managed collectively.

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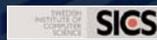
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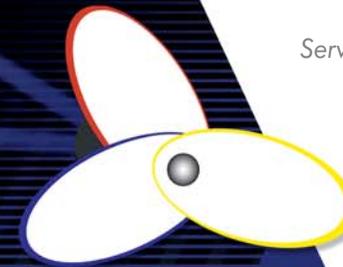
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TrustCoM

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Integrated
Project



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<http://www.eu-trustcom.com/>

Companies report that the main reasons for not adopting Web Services and Grid technologies are:

- Licensing and charge-back
- Migrating to a Service Oriented Architecture
- Security
- Trust of others using their data or machines

Trustcom will overcome these barriers by providing a secure, contract based framework for virtual organisations that fosters trust between partners. The Trustcom framework defines a contract and service level agreements between VO members at a business level and that can be specified, monitored and updated at a technical, operational level within a service oriented architecture.

The Trustcom application markets Trustcom will provide generic results designed to meet the requirements of wide range of markets. The Trustcom results will be implemented as prototypes and evaluated in two vertical markets:

- Integrated engineering in aerospace
- Aggregated services for elearning

What will Trustcom deliver ?

1. The Trustcom project will provide a framework for trust, security and contract management consisting of:

- A set of semantically well-founded concepts and relationships for describing and reasoning about contracts, trust and security in dynamic virtual organisations. This forms the meta-model of the TrustCoM framework;
- An abstract architecture reflecting these concepts, and providing a flexible structure and organising principles for systems based on the framework;

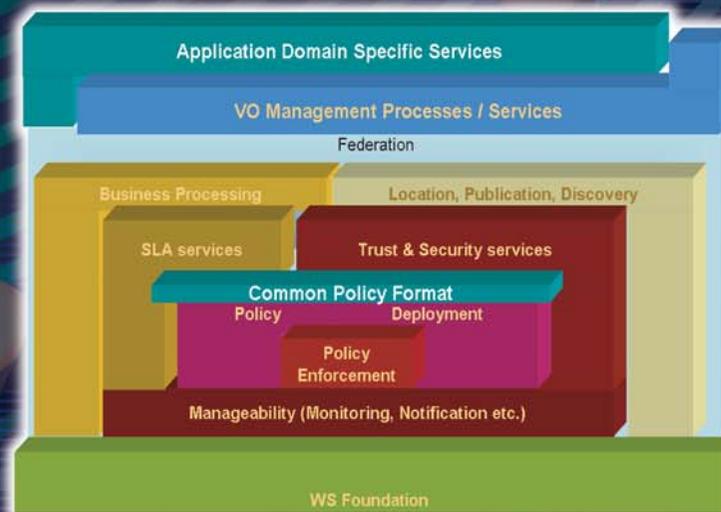
2. A generic set of methods and tools that implement the Trustcom Framework. The tools will be available under open source licenses from the Trustcom website.

3. Evaluated demonstrations of the framework, methods and tools applied to the markets of integrated engineering in aerospace, and aggregated services for e-learning.

- profiles extending existing specifications of services and protocols or showing how they can be used together to implement the Trustcom framework.

4. Input to specification standardisation to encourage adoption of the results.

The innovations of the Trustcom project



The Components of the Trustcom Architecture

Trustcom is taking the latest research from universities on modelling cooperative business processes, automated management of contracts and service level agreements, role based authorisation, policy based distributed computing, and integrating it together to address the refinement of contracts to operational security controls on Web Services.