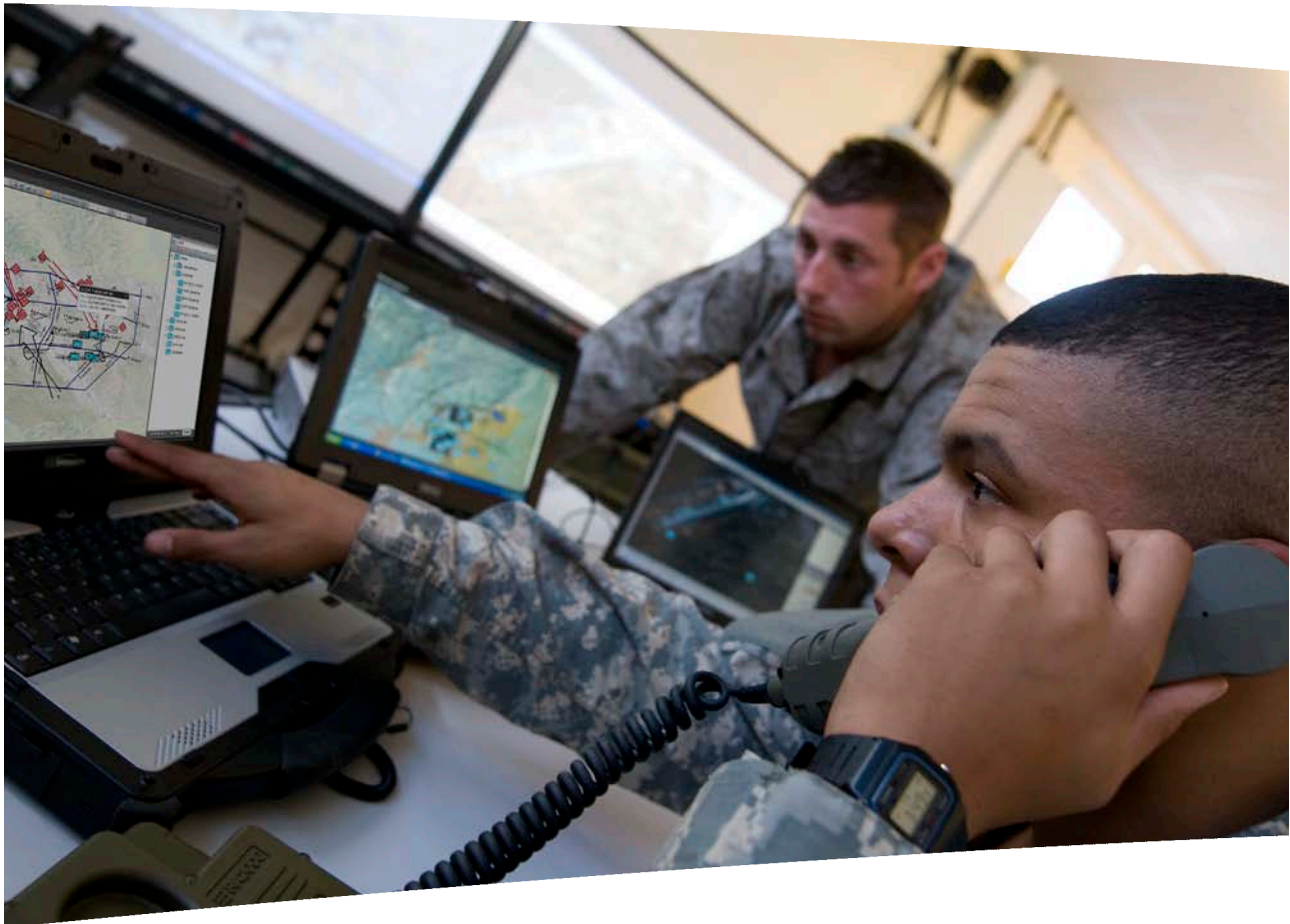


The C2 Classroom

The best defence begins with training

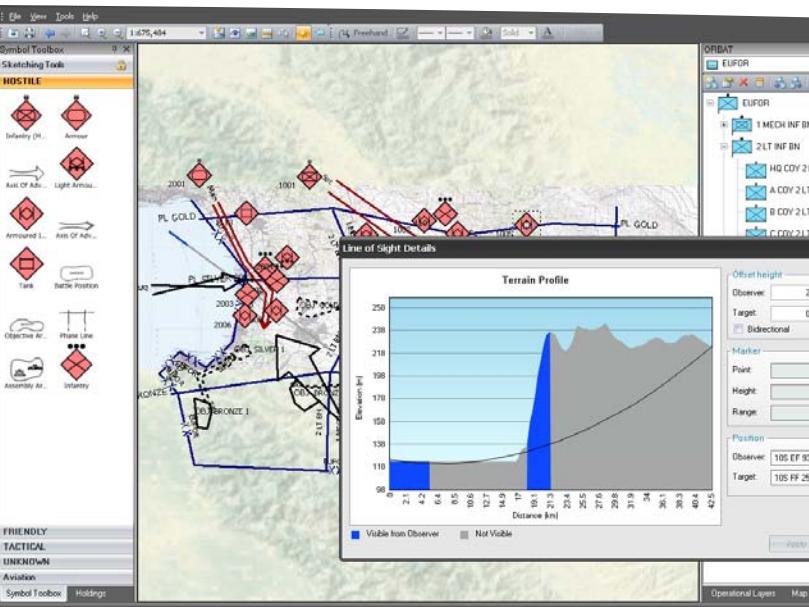


As military budgets get squeezed, the cost of live training becomes a focus point for cuts. Transporting valuable equipment, resources and personnel is time consuming and prohibitively expensive. Forward-thinking military personnel recognize the valuable and increasing contribution of simulated systems and their ability to provide realistic combat scenarios.

Modern military operations involve everything from asymmetric warfare to counter-terrorism, and from civil emergency to disaster relief. Effective action depends on the best possible training and preparation for the task at hand.

Complex operational environments require decisions to be made fast and accurately. These decisions are only learnt through careful and planned training and simulation exercises. Decisions are often critical, so it is essential that any preparations are robust and methodical.

Command and Control (C2) software has certainly helped modern day operators, and when integrated with constructive simulation offering enhanced realism, augmented reality training exercises become even more valuable. With defence purchasing under increasing public scrutiny, combined COTS technology provides value for money especially where defence organizations have to do more with less.



SYSTEMATIC SITAWARE

The SitaWare Suite of products is a reliable, cost-effective COTS Command and Control solution designed to put information where forces need it most.

Providing a complete, stand-alone simulation system

Simulated environments are becoming standard practice and many defence academies, officers' schools and military units worldwide are using simulation systems for Command Post Training, Course of Action analysis, self training, C2 training, concept and doctrine development, and wargaming. This gradual adaptation has resulted in saving valuable resources and time, compared to the use of real units on the training, exercise and development areas.

The C2 Classroom is a combination of two COTS products: Systematic's SitaWare C2 software is configured alongside MASA SWORD constructive simulation products to provide a stand-alone simulation system that delivers officers with a proven C2 system overlaid with constructive aggregated simulation environment. The solution can be further enhanced based on customer requests.

The C2 Classroom is mainly aimed for C2 training, Course of Action analyses, wargaming, and as a simulation support in concept and doctrine development.

In the use case of Course of Action analysis, officers can use SitaWare Headquarters from Systematic to generate collaborative plans to formulate constructive campaigns using their standard tools.

Any plan can be exchanged and processed with SWORD into a scenario that can be automatically executed. The result gives an idea of the outcome using different combinations of actions between the two sides.

This type of simulated support gives senior officers the opportunity to make informed and optimal decisions. The final plan can then be executed in a more complex scenario than the original. Officers will then need to act and adjust their plans in the C2 system according to the development of the scenario played by SWORD.

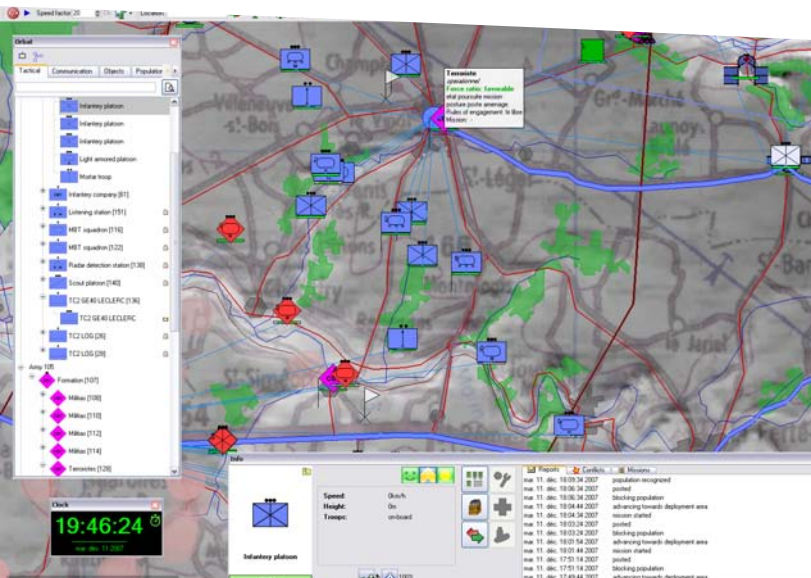
The C2 Classroom in its basic form consists of 20 student applications with SitaWare and SWORD including generic scenarios, setup, instructors' tools, training, on-site installation and a help-desk. This configuration can be extended exponentially to lower echelons or with additional clients, scenarios and so on.

SitaWare Headquarters software products form the core elements in higher level headquarters C2 solutions already in use by several nations. These products are based on the most widely used interoperability standards making it possible to connect the C2 Classroom with coalition forces.

SitaWare Headquarters WebCOP provides remote commanders with an up-to-date detailed picture of operations using high performance web technologies; while SitaWare Headquarters itself provides full situational awareness and decision support. It also includes state of the art military planning tools making it possible to build plans, layers and support all headquarters' tasks.

SWORD is an automated, aggregated constructive COTS simulation used by command staff and crisis centres for efficient training and analysis. SWORD supports both military and civil exercises spanning all aspects of defence, homeland security and emergency management.

The doctrine-compliant intelligent automation allows the set-up of small to large scale exercises. The units are driven by customisable opportunistic behaviors (not prescribed), ensuring maximum realism while requiring less human controllers, now fully focused on the core training job.



MASA SWORD

SWORD is an automated, aggregated constructive COTS simulation used by command staff and crisis centres for efficient training and analysis.

The C2 Classroom is an easy-to-use and versatile solution that can be run on a laptop for analysis and self-training purposes as well as driving crisis management exercises. It can be deployed in a full-scale server-based training center or be connected to C2 systems. Its main technical features are:

- 20 SitaWare Headquarters licenses (student edition)
- 2 SitaWare Headquarters WebCOP licenses (instructor edition)
- 1 SitaWare Headquarters C2 Server (academy edition)
- 1 SitaWare Headquarters Track Server (academy edition)
- 1 MASA SWORD Preparation license (academy edition)
- 1 MASA SWORD 20 player multi player license (academy edition)
- 20 MASA SWORD player licenses (student edition)
- MSDL, BML and BFT integration between SitaWare and SWORD
- Hardware can be delivered as an option
- Standard scenarios with maps etc.
- Onsite installation
- 2 weeks instructors course

With the C2 Classroom you can actively simulate the decisions made by commanders without deploying expensive hardware and personnel. You can also analyze results and implement changes immediately and watch the scenario unfold. This gives everyone involved in operations a clear view, thereby increasing efficiency and ultimately, safety.

Military Challenges

- Reduced defense budgets
- Increased stress on 'value for money' and the need for proven high quality
- Shorter timescales from procurement to deployment
- New capabilities are needed now – there is no time or long development projects
- Emphasis on international collaboration, and a strong requirement for interoperability
- International missions – asymmetric threats

Military Benefits

- Ready to use – meets the majority of requirements right out of the box
- Easy to deploy – off the shelf products that are tried and tested
- Value for money – low training and life cycle costs
- Easy to use – familiar windows user interface
- Classroom costs as opposed to full blown exercises

Key Features

- Meets all core requirements straight out of the box
- Proven Reliability that's tried and tested
- Familiar windows user interface, low training requirement
- Designed to simplified IT management in theatre
- Low training and life-cycle costs
- Open and extendable architecture
- Complies with MIP, NFF, and other interoperability standards (BML, MSDL)

Contact Systematic

Denmark

Systematic A/S
Søren Frichs Vej 39
8000 Aarhus C
Tel.: +45 8943 2000

Finland

Systematic Oy Finland
Finlaysoninkuja 19
33210 Tampere
Tel.: +358 207 463 870

United Kingdom

Systematic Software Engineering Ltd
The Coliseum, Riverside Way
Camberley, Surrey, GU15 3YL
Tel.: +44 1276 675533

United States of America

Systematic Software Engineering Inc
5875 Trinity Parkway, Suite 130
Centreville, Virginia 20120-1971
Tel.: +1 703 385 7522

defence.sales@systematic.com
www.systematic.com

Please contact the Systematic office most convenient for you.

Contact MASA

North America

MASA Group Inc.
4111 Monarch Way, Suite 104
Norfolk, VA 23508 - USA
Tel: +1 757 271 3382
Fax: +1 757 271 9373
Email: sales@masagroup.us

Rest of world (Headquarters)

MASA Group S.A.
8 rue de la Michodière
75002 Paris - France
Tel: +33 1 55 43 13 20
Fax: +33 1 55 43 13 49
Email: sales@masagroup.eu

www.masagroup.net

About Systematic

Systematic is an internationally renowned software company providing scalable software products, services and projects for defence forces, security organisations and systems integrators.

Systematic is redefining defence and security IT procurement with its off-the-shelf product range for command and control, situational awareness, crisis management, intelligence and information exploitation. In addition, the company provides training, consultancy and integration services in these highly specialised fields.

The company's products and services are proven operationally in combat, humanitarian missions, emergency response, public order events and internal security.

Working internationally with local partners, Systematic delivers cost-effective solutions to more than 100,000 users in over 40 countries.

About MASA

MASA is a global company focused on the development of Artificial Intelligence-based Modeling & Simulation (M&S) software for the Defense, Homeland Security, Emergency Management, Serious Games and Games Development markets. A trusted developer of cutting-edge AI technology for over fifteen years, MASA has founded its success on products that combine scalability, adaptability and low cost of ownership, with a strong standards-driven approach to technology.

The MASA product range, including MASA SWORD and MASA LIFE, is uniquely designed to simplify and optimize the implementation of Artificial Intelligence capabilities for automating and driving simulated behaviors. Such capabilities allow developers and end-users in various sectors to focus their efforts on enabling a series of cost-efficient and highly realistic applications – such as command staff training, crisis management preparedness, exercise preparation, after-action review, doctrine & equipment analysis, and corporate training.