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 IFAD
IFAD is an international supplier of simulation products and networked team training solutions. IFAD has more than 20 years’ experience in providing networked simulation solutions and support to our customers.
IFAD provides simulation-based training solutions for Defence and Homeland Security.
- Naval Training Solutions
- Close Air Support Training
- Radio Communications Training
- Incident Command Training
- Combat Medical Training

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Training in simulated environments proves much more cost effective than live exercises requiring the transportation of troops, equipment and resources. There are many simulation systems on the market, but few offer a simple integration with Command and Control (C2) systems. This is where the C2 Simulator Gateway breaks new ground.
The C2 Sim GW was built by IFAD and Systematic for the Danish Army, who is using it in their tactical trainer connected to the Joint Conflict and Tactical Simulation (JCATS) system, SteelBeasts Pro and VBS2. The C2 Sim GW is usable at all levels – from forces equipped with SitaWare Frontline at platoon level to Joint commands using SitaWare Headquarters.

C2 Sim Gateway
Bringing situational awareness to simulation systems

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The C2 Sim GW is designed for military training centres as well as integrated test beds and battle labs. It is an ideal solution for training systems from the tactical level up to staff and command team training as well as for Concept Development and Experimentation (CD&E).

The C2 Sim GW integrates the SitaWare C2 Suite seamlessly into military simulation exercises using the High Level Architecture (HLA) or Distributed Interactive Simulation (DIS) industrial standards for distributed simulation.

GPS and Sensor Interfaces
For SitaWare Frontline, the C2 Sim GW provides real-time GPS and sensor feeds, such as laser range finder, gun and turret directions. The specific interfaces depend upon the integration of SitaWare Frontline in the vehicle or mobile platform.

Simulation to C2 Management
The filtering of simulation data into SitaWare is highly configurable using the C2 Sim GW, which also controls mapping rules and update rates. Tracking and mapping of DIS/HLA entities to tracks in SitaWare is setup individually for each SitaWare product connected to the simulation environment via a central management tool. The configuration includes:
- Paring each SitaWare product with a simulated entity (own unit)
- Selected simulation entities or groups of entities (friendly, neutral and hostile) to track per SitaWare product
- Entity tracking can be arranged as individual entities or from any level in the organisation’s hierarchy – upwards or downwards.
- Entity filtering includes Force identity (friendly, hostile, neutral) and entity type (kind, domain, category etc.) as well as geographical filtering.

Simulator Interoperability
The C2 Sim GW is based on IFAD’s proven simulator networking platform supporting DIS and HLA with the Real-time Platform Reference Federation Object Model (RPR FOM).