



TOTAL DEFENCE INTEGRATED COMMAND AND CONTROL SYSTEM

The Total Defence Integrated Command and Control (TDIC2) System is the new SELEX Sistemi Integrati solution capable of unifying the Command and Control functions of all military forces and civilian organizations with available data.

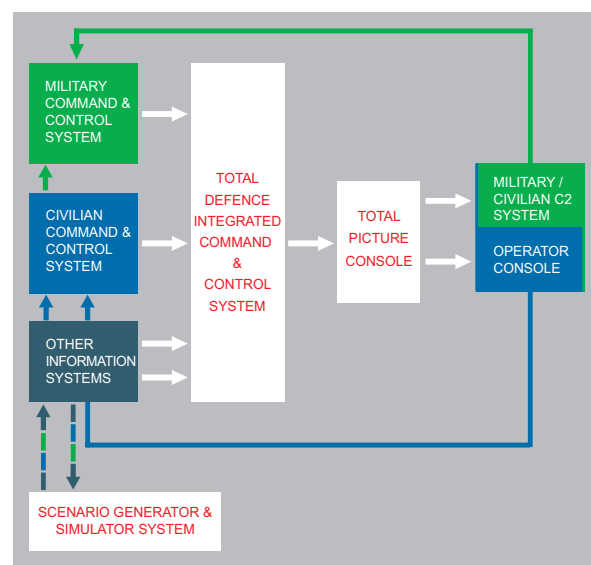
The system is modular and scalable to fit a variety of operational scenarios. Thanks to plug-and-play technologies, TDIC2 can be connected with any external system.

THE SOLUTION

The TDIC2 system includes the following main functions:

- integration of military and civilian information systems
- geolocalized visualization of integrated data in order to support different types of mission requirements
- effective command & control, manoeuvring and planning of military and civilian forces for joint operations
- coverage of a wide range of operational scenarios including war fighting, peacekeeping, anti-terrorism, evacuation, humanitarian and other missions

- simulation and training activities through the scenario generator and animator modules using international standards (DIS, HLA) to enable distributed international joint training exercises.



THE SYSTEM

New Middleware

The innovative Middleware system is based on OGC standards. The total defence integrated C2 Middleware normalizes and stores different types of data (raster, vectorial, DTED and others) from multiple information sources (military and civilian) for quick data retrieval and viewing.

Total Picture

This is a new portable viewer that allows users to filter, select and visualize multiple data types from many different military and civilian information sources. Total Picture uses open source software tools to visualize data by georeferencing them on maps. This system does not require dedicated hardware and can be accessed from a PC, PDA, iPhone, IPAD or similar devices.

Simulation

The TDIC2 system incorporates the advanced Battlelab Scenario Generator and Simulator to provide training simulations. Users can create detailed entities, establish related states (friend, neutral, enemy) and define their geoplacements. Artificial Intelligence tools provide dynamic attributes for each entity. The use of DIS & HLA standards enables joint international training operations.

Global Data Warehouse

TDIC2 includes Business Intelligence tools which analyses data collected from the Middleware system. The Global Data Warehouse provides users with data mining and analysis capabilities to support information management related decision making, cost analysis and risk reduction.



KEY POINTS

The TDIC2 solution stands out for:

- integration of information from Defence and Civilian systems using International standards for Geospatial data exchange
- wide support to many scenarios including War Fighting, Peace Keeping, Anti-terrorism, Evacuation and Humanitarian Missions
- highly modular and scalable system, with advanced display and functions utilizing OGC and international standards for retrieval, storage and viewing
- candidate casestudy for NATO Modelling and Simulation center of excellence, based on the utilization of existing Italian Defence and Civilian C2 systems.

