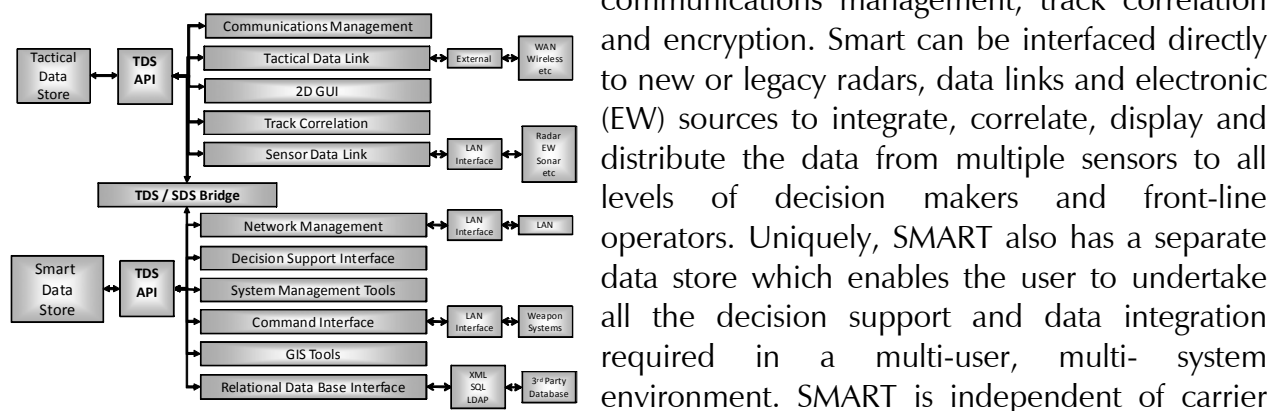




Real Time, Tactical Networking in support of Joint Services Operations

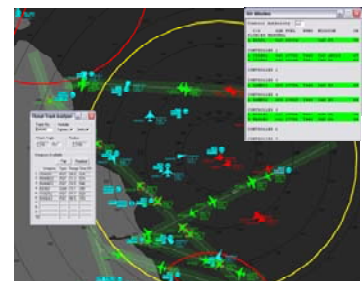
SMART (Situation Management & Awareness in Real Time) is a real-time, decision support, toolset, which meets the growing need to operate within a networked, joint-forces environment which integrates all sensors (often with multiple systems often having incompatible protocols or different data formats) with all shooters. SMART is a Network Centric Warfare enabling technology which uses an open protocol that is optimised for a low-bandwidth communications to provide the core of a powerful, scalable and affordable C⁴i system. The modular software is based around SMARTnet, a unique, real-time information management and fusion engine. Additional functionality can be added by SMARTplugins in the form of user-based applications and specific interfaces to multiple sensors and weapons. These decision support tools enable SMART to deliver the functionality and flexibility required in today's mobile and dynamic operational environments.

SMARTnet comprises multiple nodes each having a reliable and fast Tactical Data Store interfaced to a fully customizable Tactical Data Link, which incorporates dynamic routing, communications management, track correlation and encryption. Smart can be interfaced directly to new or legacy radars, data links and electronic

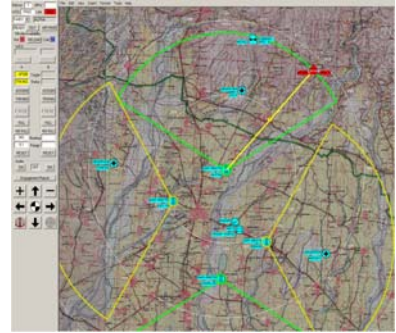


(optical, wire, satellite, wireless etc) and SMART nodes integrate in a peer-to-peer, MANET in which any node can be designated as a soldier, sensor, platform, gateway, server, recorder, etc. Bandwidth management tools can prioritise tracks based on geographical area, threat or objects of interest.

SMART incorporates operational tools which are the result of over 10 years of continuing development, operational trials and user input. Data and information from many sources can be correlated, validated, displayed and disseminated using role-based, encryption to limit access to those with appropriate credentials. Intelligence from imagery, electronic surveillance, human and other sources can be integrated and data can be updated at every level to ensure all information on the network is timely and relevant.

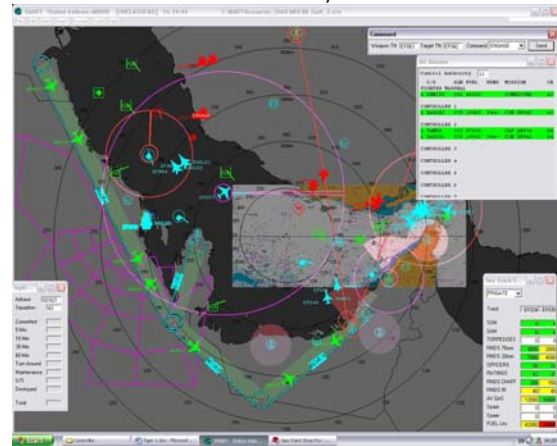


Each SMART equipped computer can be linked to a GPS and communication system to enable the user to receive, view, generate and send data. All data displayed in SMART are treated as unique objects, including air, sea and land vehicles, graphics, chat, messages, commands, text, GIS data etc. Data can be entered manually or automatically through an existing data source. SMART displays all objects interactively in 2D and 3D using a background of GIS information, maps, images etc. By using interactive graphical display techniques, SMART is independent of spoken language and is ideal for sharing intelligence among coalition forces.



SMART has comprehensive facilities for filtering, monitoring, editing and recording all objects and tracks. SMART incorporates a fully-featured set of tools for the fighter controller and track consistency is maintained when, for example, handing over an airborne track from one controller to another. Actual-time logistics displays inform the current status of all SMART users and their sub-systems such as fuel and weapons status.

SMART models missile impact and launch zones and enables automatic threat warning to ground assets to provide a comprehensive missile planning and missile defence capability. SMART also analyses and displays EW traces, to provide automatic correlation between tracks and electronic signatures. SMART can sit at board level, making it ideal for use with remote sensors such as border monitoring devices including digital cameras and vibration sensors.



Operational Advantages

SMARTnet is a state-of-the-art software toolset which links current and future sensors and incompatible systems using existing communication networks to develop unique, user-driven, locally supported, C⁴i solutions which can quickly be fielded to operational units. SMARTnet is designed to form a backbone for sharing information between operational units of all services, including civilian units such as the police and coastguard. SMARTnet is also ideal for security and covert operations where the need for accurate and timely information is paramount.

For further information please visit our web site www.intaero.com.