

TCN

Tactical Component Network



TCN provides military combatants with optimal situational awareness through a comprehensive collaborative information environment.

Benefits

- Hardware and communications channel- independent
- Software suite provides real-time sensor collaboration to support C2 and battle management applications
- Advanced next-generation algorithms eliminate redundant information to efficiently maximize bandwidth
- No exchange of elemental information required for end users to process track data - enhances security
- Robust 3rd party developer kit facilitates component-based systems design and integration
- No unique comms or avionics requirements - highly adaptable for TACAIR and Netted Weapons Solutions

TCN is an object-oriented software framework that provides military combatants with optimal situational awareness by facilitating efficient distribution of information. TCN is deployable across both fixed and mobile nodes connected via user-selected communications, both wired and wireless.

TCN manages mission domains (Air, Land, Space, and Surface) and has the versatility to track high velocity and low velocity targets.

TCN's plug-in architecture allows rapid insertion of 3rd Party applications such as communications systems, mission planning toolkits, and engagement planners.

TCN multiplies the value of existing C4I infrastructure investments by allowing straightforward integration with legacy sensor and communications systems by OEM, ISEA, and others.

TCN extends and complements tactical data links with global reach, allowing data links and communications networks to become net-centric enablers without additional investment and program impact.



Features

- Unlimited number of network participants
- Addition of new sensors or comms requires no changes or modifications to other network participants
- Network participants retain functional and physical independence

TCN Development Support

- Developer support kit
- Data reduction/analysis tools

TCN Component Architecture

- TCN Foundation Application (Data Conditioner, Needs Manager, and CORE synthesis)
- Element Server (integrates element into component network)
- Mission-specific applications (generic data exchange)

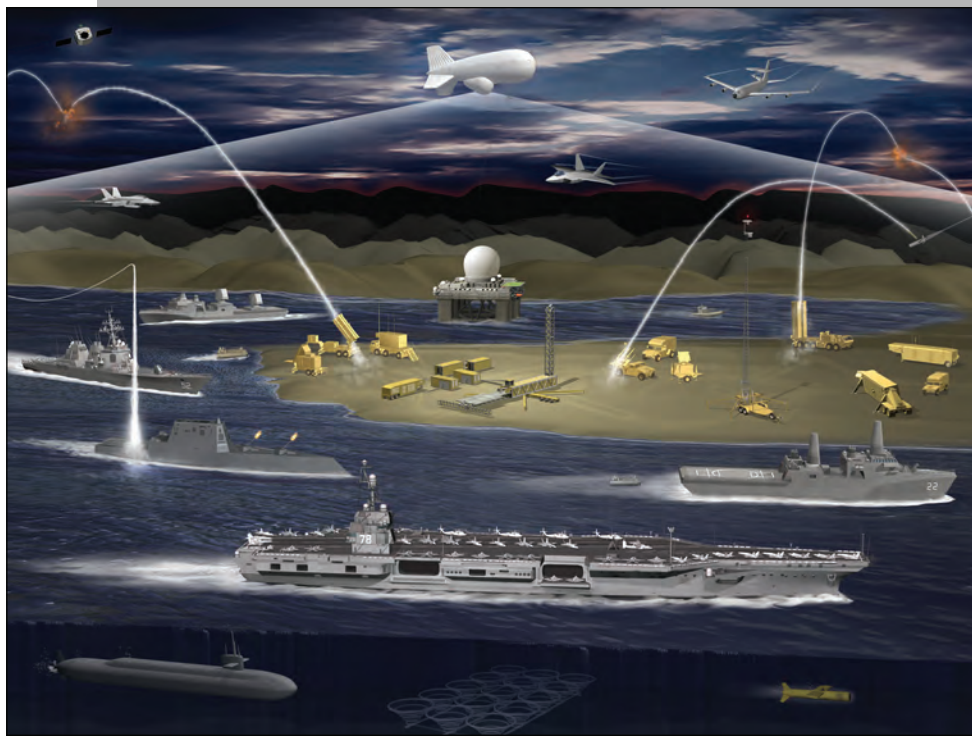


Demonstrated Performance and Maturity

Army - Multiple demonstrations and assessments, including Army/MDA JCTD. Ongoing activities to define & assess TCN Composite Tracking Requirements & Performance for Army IAMD.

Missile Defense Agency - Multiple demonstrations and assessments. TCN acquired by MDA as the sensor net framework for Block 8 C2BMC in 2006.

Navy - Comprehensive Characterization and Assessments including at-sea assessment. PAC TCN currently deployed in USN 7th Fleet Amphibious Ready Group.



TCN provides advanced situational awareness across multiple mission domains (Air, Land, Space, and Surface) and has the versatility to track high velocity and low velocity targets.

The TCN common framework ensures interoperability of components regardless of developer.

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