BC2A Platform

Command and Control Solution for Mobile Platforms

BC2A Platform is a mission-tested command and control solution for vehicles and other mobile platforms. It delivers exceptional situational awareness in the tactical battlespace, keeps the crew connected to the command post over combat radio, and gives commanders the tools to plan, report, and act on a single shared picture.

Tactical Situation	Friendly Force Tracking	Radio Gateway
near real-time information over GIS layers about friendly forces, enemies, events or obstacles	data exchange that avoids fratricide fire and maintains the Common Operational Picture	operates as an FFT gateway, exchanging data between command posts and mobile platforms

Operational documents	Reports	Requests	Alerts	Automated messages



System Highlights

TACTICAL SITUATION

Display near real-time information over GIS layers about friendly forces, enemies, events or obstacles.

FRIENDLY FORCE TRACKING (FFT)

Data exchange for avoiding fratricide fire and maintaining the Common Operational Picture.

OPERATIONAL DOCUMENTS

An unlimited number of analysis, estimates, plans and orders built on predefined STANAG 2199 templates. New templates can be created, in either STANAG 2199 or non-standard format.

REPORTS

Generate, edit and submit reports following the ADatP-3 standard.

REQUESTS

Edit, transmit and receive operational requests, with integration for other types of custom requests.

ALERTS

Display and send alerts to other C2 systems: Contact Alert, AIR Alert, CBRN Alert.

AUTOMATED MESSAGES

Automate data sending over the radio network.

TACTICAL CHAT

Send and receive text messages and all types of files, organised by priority level and receiver group, as well as alerts and enemy contact.

TERRAIN ANALYSIS

"Line of Sight" displays the terrain profile to identify direct visibility between two points. "Radial Sight" identifies the area of visibility on the spot, depending on the selected centre and range.

OWN POSITION UPDATE

Own position updated from GPS information received from a radio or other GPS receivers.

RADIO GATEWAY

Operates as a radio FFT gateway to exchange data between the command posts and mobile platforms. FFT tracks are displayed on the GIS support and automatically forwarded to mobile platforms. Two-way data exchange with other C2 applications at the command post uses automated messages for position and status reporting, and for the submission of plans, orders, reports, requests and chat.

Key Benefits

- Standardized and intuitive set of C2 software tools needed in the tactical battlespace
- Covers all the core common operational requirements for dismounted warriors and mobile platforms
- Incorporates NATO military symbology, linked to the MIP exchange data model
- NGVA ready
- Provides a C4I SDK framework for extending BC2A features, including integration with third-party systems
- Standardized data exchange over LAN/WAN and combat radio networks
- Supports multiple radios on the same mobile platform
- Improves and automates situational awareness and the Common Operational Picture
- Automates operational tasks that take place in the tactical battlespace
- Optimized for high-latency, low-bandwidth tactical radio environments

References

BC2A Platform has undergone testing in numerous exercises and interoperability working groups, to ensure optimal performance and interoperability with the C2 systems of coalition partners:

- Coalition Warrior Interoperability Demonstration, 2007–2009
- Coalition Warrior Interoperability Exercise, 2011–2023
- MIP working groups for interoperability

Implementation services

- Requirements analysis
- Solution design
- Integration
- Installation, configuration and testing
- Training
- Customized manuals

Support

- User and technical support
- Custom extension with new functionalities
- Assistance with participation in interoperability exercises

Technical Architecture

Architecture and components

BC2A Platform — the command and control application itself.

BC2A TNS — Tactical Network Service — network service supporting data exchange over IP-based protocols, for applications working over combat network radio or in a LAN environment.

BC2A IVIS — Interactive Vetronic Information System — service that integrates vehicle sensors with the C2 applications.

SOA architecture — a Service Oriented Architecture, ensuring a high level of interoperability between services, as well as flexibility and scalability.

TC2IF — Tactical C2 Integration Framework — the integration framework the solution is developed on top of.

Technical requirements

OPERATING SYSTEM

Microsoft Windows 8.1, 10 and 11

COMMUNICATIONS

Combat network radio environment and LAN/WAN networks

HARDWARE

CPU 1 GHz · memory: minimum 4 GB RAM · hard disk space: minimum 40 GB

