GENERAL DYNAMICS
Mission Systems

GVA Electronic Architecture Software Framework

Tactical Infrastructure Framework (TIF)

Exchange vehicle, weapon, and sensor information with our adaptable middleware framework.

Qualified on a range of ground combat vehicles.

Supports a variety of standard ground combat data interfaces such as Ethernet, MilCAN, and USB.

Easily bridge open standard (GVA/VICTORY) databus standards to legacy vehicle interfaces (J1939 CAN, RS 232/422).

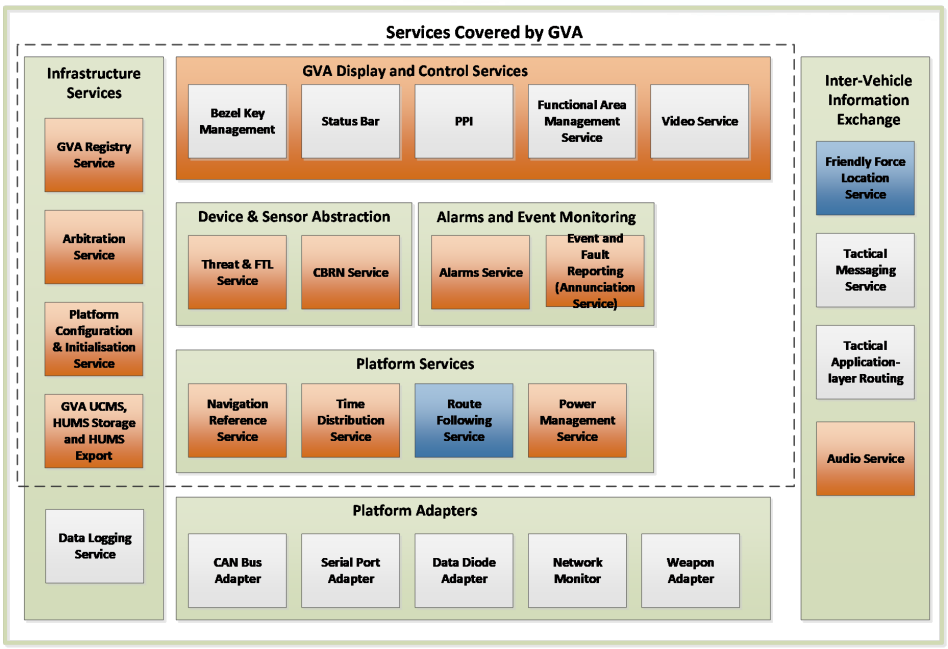
Available for Microsoft Windows and Linux operating systems

Features:

- Get the right information at the right time with GVA TIF's adapters that simplify the complexities of different vehicle, weapon, and sensor systems.
- No matter the mission our GVA TIF supports a wide range of applications and sub-systems:
  - Situational Awareness (SA)
  - Weapon Management (WPN)
  - Health and Usage Monitoring System (SYS)
  - Navigation and Vehicle Status (DRV)
  - Communications (COM)
  - Battlefield Management System (BMS)
- Minimize training with easy-to-use a GVA compliant common interface for applications.
- Quickly prioritize the most relevant information with options to manage, integrate, and manipulate application windows and views.
- Efficiently access key windows with a quick click by programing bezel inputs and touchscreen services for resident and remote applications.
- Adapt legacy and non-GVA vehicles to the GVA architecture with built-in vehicle time, position, and weapon orientation services.
- Easily upgrade your system without impacting performance.

Technical Information

Tactical Integration Framework (TIF)



Architecture

- OMG DDS open-standard interface compatible with U.K. Generic Vehicle Architecture (GVA) (DEF STAN 23-009) and NATO GVA (Stanag AEP4754).
- Off-the-shelf support for exchange of sensor data including position, navigation, time, vehicle/turret/weapon status, UAV, EOIR cameras, CBRNE, etc.
- Communication module offers built-in services such as blue force tracking, position, and time synchronization.
- Common interface for alarm and diagnostic fault reporting.
- Application state management supports application start-up, foreground/background management, and shutdown.
- Event management including alarms, notifications, bezel buttons, etc.
- Communication module enables exchange of tactical information across radio, SATCOM, and tactical HQ networks.

Standards Compliance

- Land Data Model 9.0.1
- GVA Registry Services V2.3
- GVA HUMS Export Description V1.0
- GVA Command Response Protocol V1.1
- GVA Defence Standard 23-009 Part 1 Issue 4.
- GVA Defence Standard 23-009 Part 2 Issue 3.
- GVA Defence Standard 23-009 Part 3 Issue 3.

Applications

Vehicle status and navigation (DRV)

- Vehicle, weapon, camera, and turret status.
- View all control and data exchange in one place with integrated application processing.
- Reduced operator training with common view.

Video display and distribution (SA)

- Take advantage of the Smart Display's integrated video capabilities for easy access to the vehicle's camera systems.
- Access and share videos (from varied sources) in near-real time.
- Integrated operator controls for the driver DVE sensors like DRS DVE-Wide system and LSA systems like Kappa's Video distribution system.
- Get direct access to the rear and side video feeds for situational awareness.
- View all control and data exchange in one place with integrated application processing.
- Reduced operator training with common view.

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