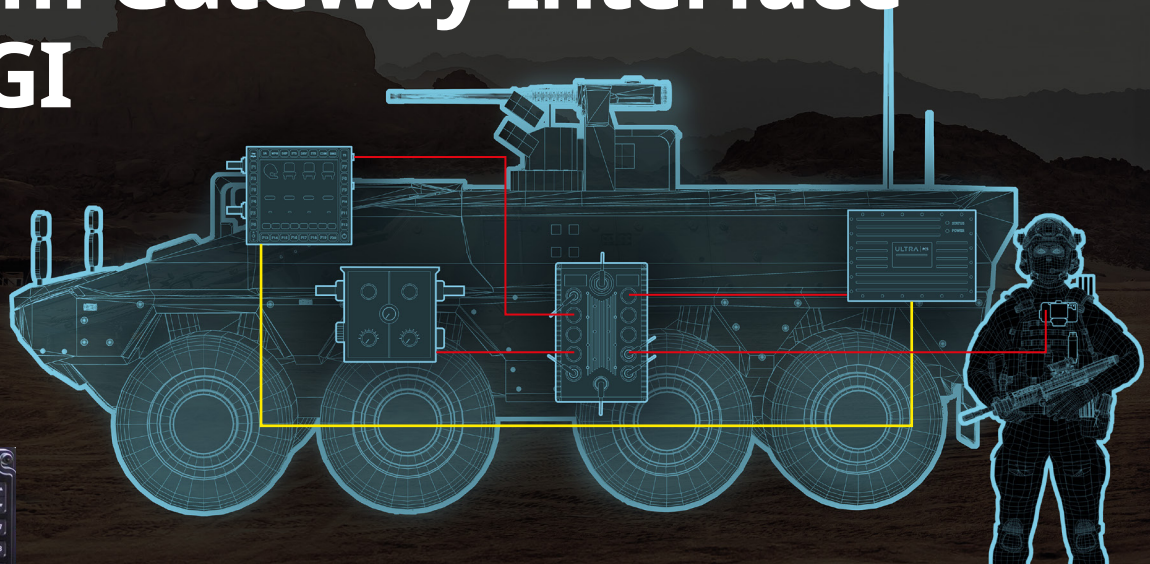# Platform Gateway Interface UltraPGI

Truly open, modular & scalable low cost GVA implementation

Key features

- Complete GVA Land Data Model Software
- Compatible with International VEA Standards
- Graphical Interface
- Hardware Agnostic
- Interfaces with Legacy Systems
- OpenAPI Software Interface for OEM Development

Overview

The Ultra Platform Gateway Interface (UltraPGI), part of the Ultra Electronic Architecture Kit (UltraEAK®), offers customers and equipment OEMs an open, modular, scalable implementation of the Generic Vehicle Architecture (GVA) standard (Def Stan 23-009) and NATO GVA (Stanag AEP4754).

The core software provides a common backbone and complete implementation of the Land Data Model (LDM) alongside a DDS (Data Distribution Service) communications layer for information sharing. UltraPGI offers an affordable solution for Vehicle Electronic Architectures especially on legacy platforms, where existing hardware can be integrated alongside the core software through the development of new software modules. This builds on rather than replacing existing hardware.

Modular Software Approach

UltraPGI adopts a modular approach, allowing new capabilities to be added in a scalable manner, whilst an OpenAPI software interface enables system integrators to modify the implementation in house.

The modular approach and OpenAPI also afford equipment OEMs the ability to develop and offer their own GVA modules ahead of integration, retaining control of their equipment whilst accelerating integration. Bespoke software modules allow for the translation of legacy protocols and equipment into the system maximising reuse and minimizing development time.

The Graphical User Interface can also be provided to give a common look and feel and compliance to standards.
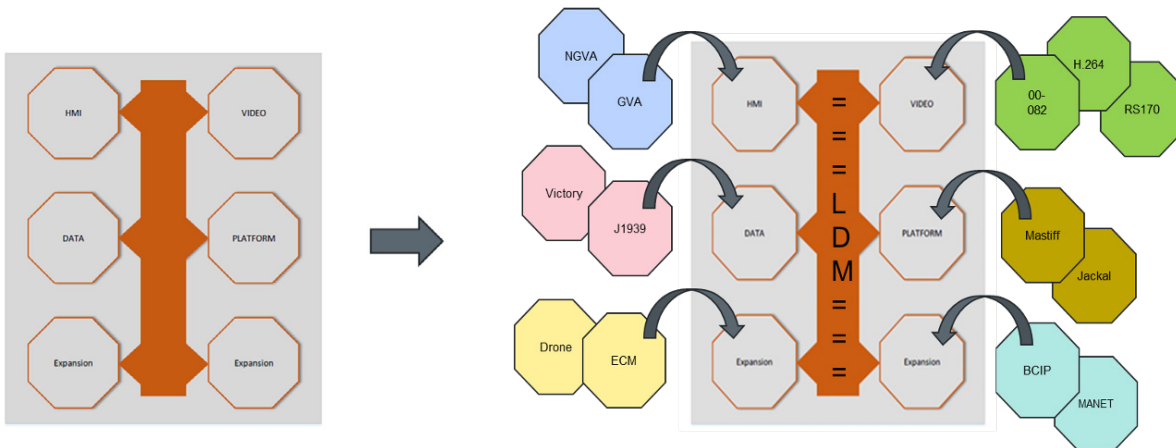
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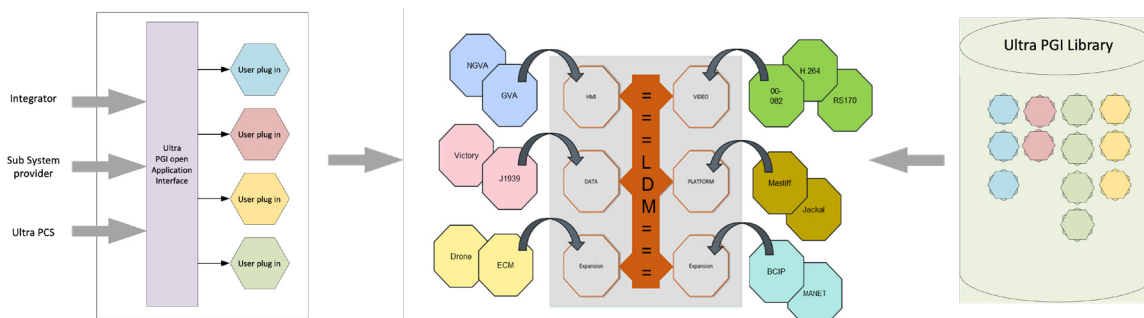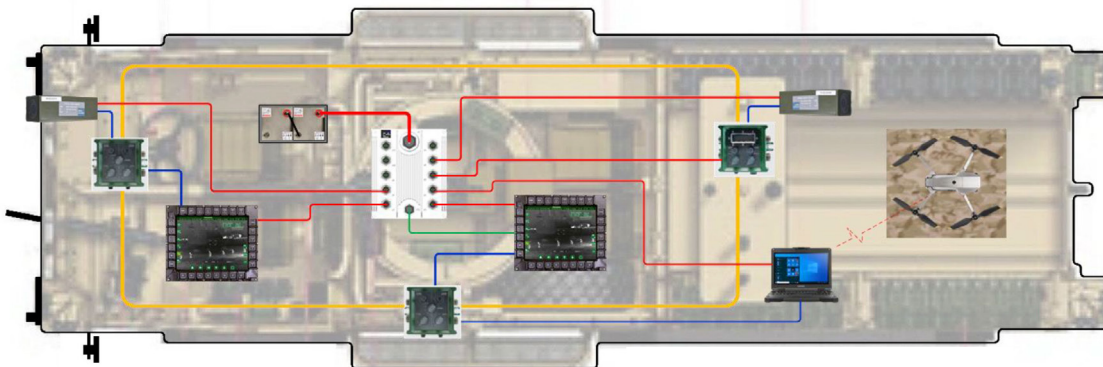# Platform Gateway Interface - UltraPGI

- An open architecture framework that allows integrators to develop platform interfaces using an open API and library plugins
- Fully implements the Land Data Model
- Compatible with UK, NATO and Australian GVA standards

PGI is a software framework designed to host a variety of plug-in modules

Platform systems are configured by selecting the relevant plug-in modules from a library

Example of Electronic Architecture Kit (UltraEAK®) using PGI

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