L3HARRIS™
FAST. FORWARD.

NEXT-GENERATION OPEN VEHICLE ARCHITECTURE (NOVA)

Empowering the warfighter with modular, open system solutions

NOVA is a scalable, platform-agnostic, Modular Open Systems Approach (MOSA) architecture that allows for rapid integration of third-party solutions based on mission demand. NOVA can be employed across the tactical vehicle enterprise and operated in current systems such as the Joint Light Tactical Vehicle and future systems such as Optionally Manned Fighting Vehicle and Amphibious Combat Vehicle.

NOVA simplifies the integration of third-party systems such as C4ISR, driver-assist solutions and weapon suites. It also allows the operator to upgrade at the pace of emerging technology while allowing continued use of legacy systems.

MOSA COMPLIANCE

Full Future Airborne Capability Environment (FACE) alignment eliminates vendor lock, enabling interoperability across existing and future fleets and ensuring the integration of third-party systems.

SCALABILITY

NOVA's ability to scale allows for implementation on a full range of ground vehicles and streamlining the development of vehicle variants with minimal modification.

CONFIGURABILITY

Built with expansion in mind, NOVA enables adaption at the pace of technology and budget while maintaining the use of legacy systems.

AFFORDABILITY

Open systems decrease overall lifecycle and maintenance costs by reducing cabling and increasing availability of parts from multiple vendors, in turn reducing labor requirements.

NOVA ENHANCES MISSION EFFECTIVENESS THROUGH:

- MOSA compliance
- Scalability
- Configurability
- Affordability

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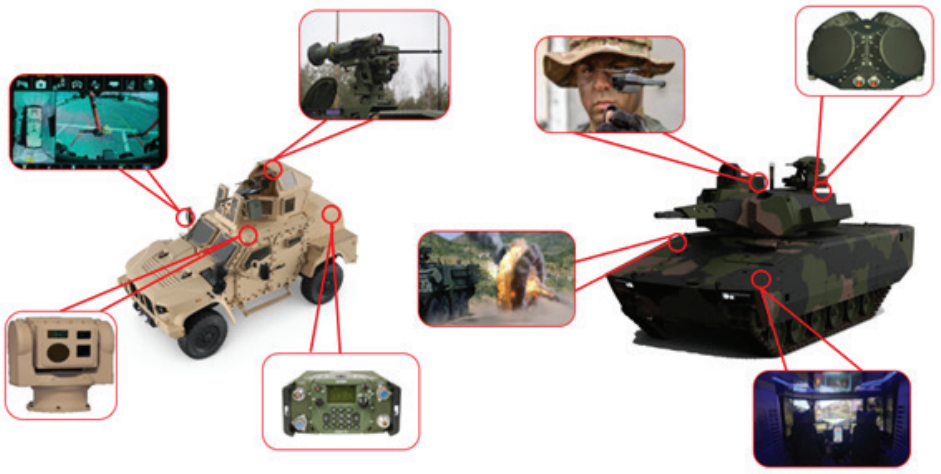
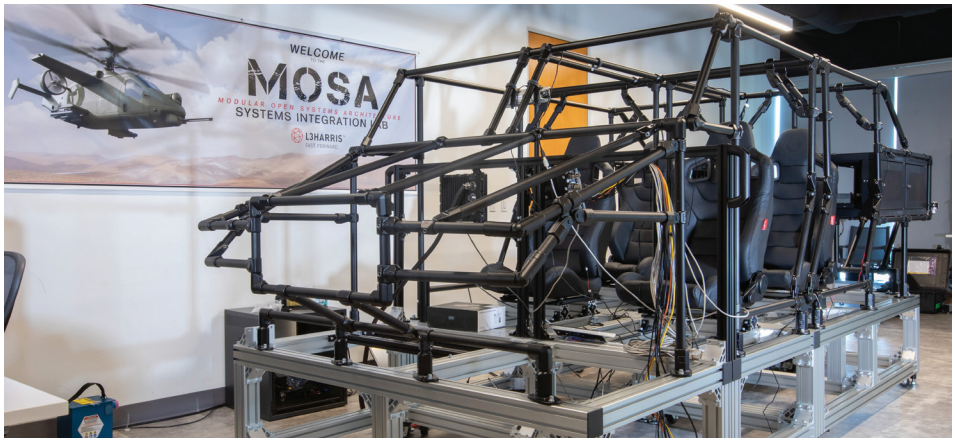
NOVA enables ground forces to meet the ever-changing requirements present on the modern battlefield. L3Harris' extensive experience in MOSA architecture development and continuous internal investments provides NOVA with the ability to adapt third-party systems into the architecture at a rapid pace.

TECHNICAL APPROACH

- Flexible/scalable connection
  - CANBUS
  - Ethernet (copper and fiber)
  - Serial
  - Discrete inputs and outputs (I/O)
  - Video Encoding (H.264/5 and GigE Vision)
  - USB
  - 70-plus expandable I/O types
- Nodal Access Unit Ground
  - Optimised for ground vehicles environment
  - Reduces overall size, weight and power requirements
  - Reduces line replaceable unit counts
  - Provides integration for both legacy and future C4ISR systems
  - Minimizes Mission System impacts for sensor/comms/weapons upgrades
  - Compatible with Next Generation Vehicle Architecture and GCS Common Infrastructure architectures
- FACE-aligned software components.
- SysML Models and FACE data models available
- MOSA Lab for accelerated integration.



*Intent of diagram is to show the integration capablities of NOVA



L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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