jausNOW
software library

> "JAUSify" your unmanned systems and payloads with jausNOW.

Since the year 2000 Autonomous Solutions has sat on JAUS committees, drafted JAUS standards, tested JAUS protocols, performed JAUS experiments... so you don't have to.

Robotic systems vendors must sell JAUS-compliant systems if they want to sell to the DOD.

The requirement isn't the only reason to bring your system into compliance with JAUS. Robotics vendors can open up new markets for their products by enthusiastically embracing an interoperability standard that is as widely as possible.

Focus on your core competency - let ASI worry about JAUS

ASI's jausNOW Library allows you to implement JAUS quickly, at low cost, and with little risk. It also gives you a partner to keep you updated with the rapidly evolving JAUS standard.

Implement JAUS fast — save man-months of developer's time using jausNOW.

Keep your robotics developers developing robots - not keeping up with changing standards.

Autonomous Solutions has been a leader in the development and implementation of JAUS from the beginning — get our experience on your side.
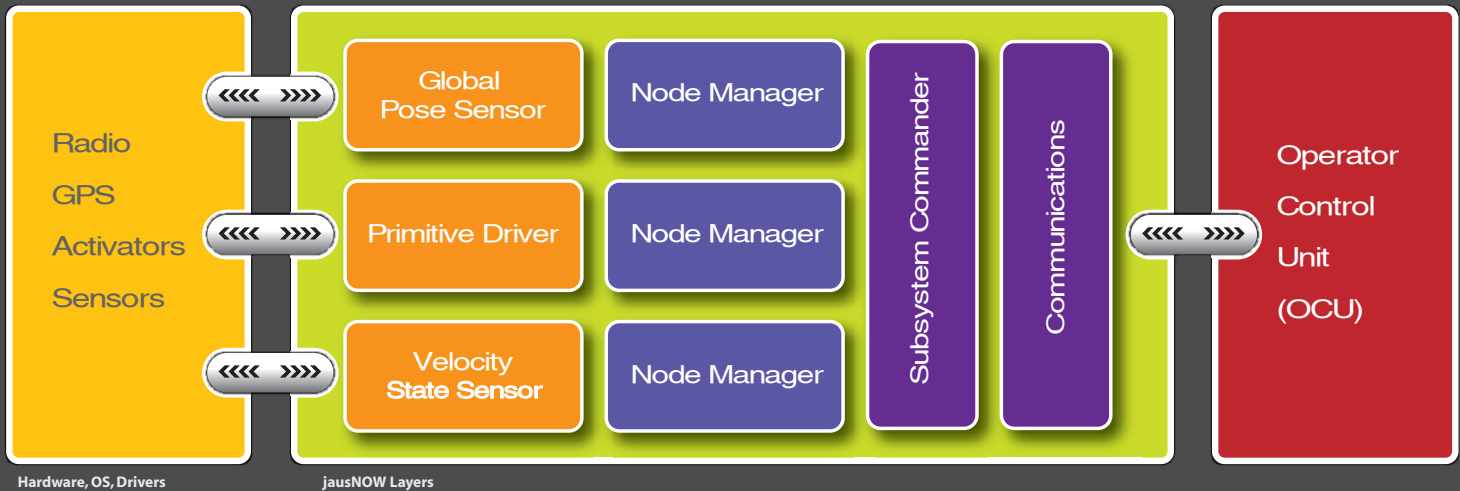
ASI's JAUS implementation is proven through Mobius, our command and control software which controls dozens of fielded systems using the JAUS standard. Mobius is used to run the JAUS interoperability experiments.

Autonomous Solutions Inc.™

your partner in interoperability

jausNOW Library

Hardware, OS, Drivers   **jausNOW Layers**

Radio
GPS
Activators
Sensors

Global Pose Sensor | Node Manager
Primitive Driver | Node Manager
Velocity State Sensor | Node Manager

Subsystem Commander | Communications

Operator Control Unit (OCU)

What is jausNOW? jausNOW is a library of software components that enable developers to easily transition new or existing robotic systems to the Joint Architecture for Unmanned Systems (JAUS) communications protocol. To further decrease implementation complexity, the jausNOW components are grouped into functionally related modules, allowing developers to integrate only what they need, while still keeping the path for expansion open in the future.

JausNOW Basic Architecture

The Core package contains the necessary software components required for a basic JAUS implementation. It includes object code, starter source code, and documentation to get developers up and running quickly. Components in this package include:

- » Node Manager Component
- » Communicator Component
- » Subsystem Commander Component

jausNOW Library Implementations

The jausNOW Library implementations are currently available for Windows-compatible, Linux-compatible, and uCOS/II operating systems and for serial, UDP, and TCP communications protocols. The Library can be easily configured for other OS/hardware configurations and communications protocols on request.

Documentation

The jausNow Library is provided with full HTML-based interactive documentation, sample code to guide application-specific implementations and software support.

Additional Modules

JausNOW Teleoperation Module

This package contains the JAUS components required to teleoperate a typical robotic vehicle.

JausNOW Autonomy Module

This package contains the JAUS components required to enable a vehicle to receive information.

JausNOW Manipulator Module

This package contains the JAUS components required to enable the control of a robotic arm or manipulator payload.

JausNOW Payload Module

This package contains the JAUS components required to enable a user to send and receive custom payload data.