



## Virtual Aircraft Training System (VATS)

**In these days of highly integrated, complex aircraft systems and the unavailability of aircraft fleets for training purposes many military organisations look to synthetic training devices to teach their service personnel the skills necessary to maintain these aircraft.**

Maintainers not only have to carry out systems interrogation through built-in-test software, health and usage monitoring data and external test equipment in order to understand and reproduce the symptoms of the fault, but also have to diagnose the cause of the fault and use the correct procedures to identify and replace the appropriate item which may be one of hundreds of individual Line Replaceable Units.

The Pennant Virtual Aircraft Training Systems has been developed as an entirely object-orientated emulation. The underlying methodology which the emulation system is based upon is derived from fault propagation techniques. The technique models all the aircraft systems component for component and connection for connection. This enables the emulation to faithfully mirror the propagation of faults and changes in system conditions due to user inputs or environmental changes from the real physical system.

This modular and object oriented design, along with common object libraries, promotes easy update of VATS and thus maximises concurrency with any aircraft configuration.

**Pennant has been supporting BAE Systems for over 10 years with VATS as the preferred method of training maintainers for their Hawk export market.**



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