

# Update Services Airbus A330 and A340

CAE's update services team has a highly developed specialty in designing, integrating, testing, deploying and maintaining software and hardware update solutions for Airbus flight simulation products. This focus on Airbus products ensures a continuous evolution of reliable solutions representing both lifecycle cost savings and improved training quality for operators of Airbus flight simulators.

CAE update service offerings for the Airbus A330 and A340 cover a wide range of solutions, from a simple software update to a complete Airbus standard update, which includes new software, hardware and aircraft equipment. When applicable, CAE's simulator updates meet qualification standards established by the International Civil Aviation Organization (ICAO) and will comply with Federal Aviation Administration (FAA) AC-140B; JAR STD 1A amendment 3 and FAA CFR Part 60.

## Features

- Airbus standard software evolution from first generation, aircraft tail-specific up to Airbus standard 2.2.
- Product evolution from CAE Super-C architecture (Linux-based) to CAE Sim XXI architecture, (Windows-based), LEEE 1394, USB and PCI architecture.
- Common commercial-off-the-shelf (COTS) Avnet PC solution for the host, motion control loading, software electronic flight control system (sEFCS) and flight management guidance envelope computer (FMGEC).
- Aircraft one way and two way conversions such as, A340-300 to A340-600 or from standalone A330 to dual A330/340.
- Re-host FMGEC from Honeywell Pegasus. An alternate FMGEC from Thales-Smiths is available for standard 2.0 and later.
- Retarget display management computer (DMC) with Thales Avionics library, simulated DMC and aircraft liquid crystal display units (LCDU).
- Communication navigation surveillance / air traffic management (CNS/ATM).
- CAE software introduction of traffic and terrain collision avoidance system (T2CAS) standard 1, replacing both traffic alert and collision avoidance system (TCAS) and enhanced ground proximity warning system (EGPWS).
- ITAR-compliant simulator specific ISIS unit from Thales Avionics.
- Datalink system air traffic services unit (ATSU).



Instructor operator station (IOS) update completed



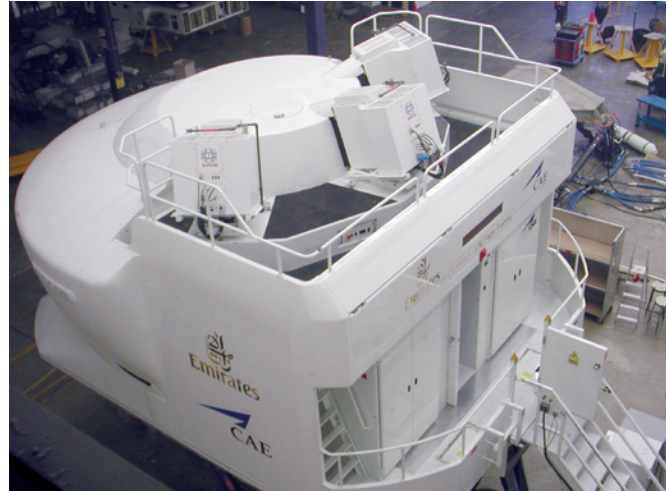
## Specifications

### Airbus standard update to 1.2 includes:

- Cockpit and avionics changes to SATCOM, FCPC, SFCC, TCAS, MMR, ADIRU, weather radar (WXR) panel and relevant VU panels compliant with Airbus standard 1.2.
- Re-host FMGEC to FMS2 (Honeywell Pegasus).
- Electronic flight control system (EFCS) version update.
- Flight warning computer (FWC) Airbus software package update.
- Host computer update with Linux environment.

### Airbus standard update to 2.2

- Cockpit and avionics changes to ISIS, FCU, WXR control panel, MCDU (Honeywell), ATC control panel, RMP, DDRMI, ATSU and relevant VU panels compliant with Airbus standard 2.2.
- Re-host FMGEC to FMS2 (either Thales/Smith or Honeywell Pegasus).
- Retarget DMC with liquid crystal display units (LCDU).
- Migration from hardware or grey box EFCS to sEFCS.
- FWC Airbus software package update.
- Traffic and terrain collision avoidance system (T2CAS).
- Host computer update with migration from Linux to Windows environment.
- Computing complex update.
- Replacement of existing IOS with latest CAE IOS (VIEWS II) hardware and software.
- Replacement of existing sound and audio interface with the latest A330/340 product interface hardware.



## Customer benefits

Airbus updates designed by CAE improve maintainability, cost-effectiveness and training fidelity while introducing state-of-the-art technology. For added confidence and reliability, CAE validates and tests each software load in the laboratory prior to deployment on the full-flight simulator.

In addition, selecting CAE updates services for Airbus updates includes access to valued tools such as "Simulator Executive" (SIMex-Plus) which provides:

- Alternate load modules.
- History of changes.
- Automatic building of simulator modules.



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