### Systems Architecture

**Centralized computer/remote display architecture**
- Leverages latest architectural designs from advanced military platform developments
- Dual redundant central Avionic Management Computers (AMC)
- Multiple display options supporting Touch Screen interaction
- Customer, industrially designed displays and bezels
- Integrated Saab’s AviGuide advanced Head-Up Display (HUD) symbol generation
- Integrated Saab’s AviCom Radio Management & Intercom System

**Scalable and Distributed I/O**
- Remote Data Acquisition Units (DAU)
- DAL A digital, discrete, and analog data acquisition
- Supports DAL A discrete, digital, and analogue control outputs
- Highly configurable

**Platform Agnostic Software Architecture**
- Saab ERIS: ARINC 653 Operating System
- ARINC 661 graphical architecture
- Software and hardware abstraction layers
- Global AMS Data Manager with configurable interfaces
- Nodal CPU architecture for growth

**Integration Development Tool Suite**
- Independent modification and change management of key functions
- Enables deeper collaboration and rapid change development and certification
- DO-178C qualified outputs
- Integrated Tool Suite for the following functions:
  - Graphics generation and application integration
  - Crew Alert System (CAS) visual and aural alerts
  - Global Logic Engine and Data Dictionary
  - Hardware interfaces definition (digital, analog, and discrete)
  - Checklists
Saab has been developing cutting-edge aircraft and avionics for more than 75 years, pushing the boundaries of avionic technology along every step of the way. Continuing in that spirit, we now introduce the next generation of open architecture Avionic Management Systems.

Saab understands how to design an aircraft and both the opportunities and challenges that sourcing and developing a fully integrated avionic system entails. That is why Saab offers advanced system platforms and architectures to the civil and military avionics community in the form of the Avionics Management System (AMS).

The AMS is the first truly open architecture avionics platform enabling our partners to design an affordable cockpit with the functions, performance, and aesthetics they want.

The AMS utilizes a centralized computing architecture, multiple abstraction layers, and a highly configurable design to provide scalable and affordable system.

An intuitive and highly integrated suite of qualified tools enable deeper collaboration between Saab and our partners during development, while providing our partners the opportunity to independently design, implement, and certify new functions, interfaces, and changes after Entry Into Service.

- A centralized computing architecture enables affordable custom displays and a signature industrially designed look and feel.
- A robust and flexible software architecture enables our partners to buy what they want, implement when they want, and customize where they want.
- Multiple hardware and software abstraction layers enable any part of the architecture to be modified or replaced with minimal system impact and recertification.
- An intuitive suite of tools and IP licenses enables deeper collaboration in development and the opportunity for the Aircraft Manufacturer to independently implement and integrate new functions now and in the future.
- Support for advanced Saab technologies under development including combined vision system, Saab’s advanced Synthetic Vision, advanced Enhanced Flight Vision Systems (EFVS) and Degraded Visual Environment (DVE) solutions, performance based terrain warning systems, and many more to come.

**Qualifications**

**Environmental Qualification**
- RTCA/DO-160G Qualified for Part 29 and Part 25 Aircraft
- Mil-Spec Compliance Available

**Hardware Qualification**
- RTCA/DO-254 Level A

**Software Qualification**
- RTCA/DO-178C Level A-D

**ETSO Authorisation**

**Key Features**

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- An intuitive suite of tools and IP licenses enables deeper collaboration in development and the opportunity for the Aircraft Manufacturer to independently implement and integrate new functions now and in the future.
- Support for advanced Saab technologies under development including combined vision system, Saab’s advanced Synthetic Vision, advanced Enhanced Flight Vision Systems (EFVS) and Degraded Visual Environment (DVE) solutions, performance based terrain warning systems, and many more to come.

**Example of Architecture**

![Diagram of Avionic Management System](image)