WE'RE ENGINEERING A
BETTER TOMORROW

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AVIONICS MODERNIZATION

Next-generation Advanced Cockpit Solutions

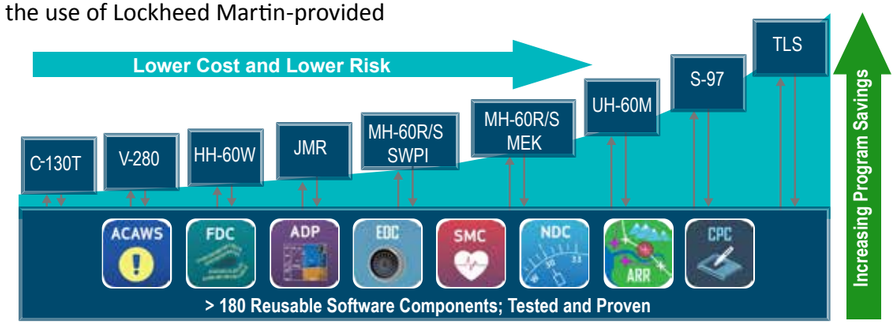
LOCKHEED MARTIN

"CORE" COCKPIT: LOW COST, LOW RISK, UNPRECEDENTED CONFIGURABILITY

The Lockheed Martin Common Open Reuse Environment (CORE) Cockpit is the first fully "App-Based" cockpit solution designed in alignment with Future Airborne Capabilities Environment (FACE™) standard, offering customers unprecedented levels of customization as well as organic control of the Avionics and Software baseline.

Lockheed Martin's "CORE" Cockpit solution is built on a scalable set of hardware and software modules that allow users to tailor the cockpit to meet their specific mission needs. Our unique flight management system approach allows us to provide worldwide airspace access in a single flight plan without impacting any operational capability.

Lockheed Martin's App-based "CORE" Cockpit solution is part of our Common Product Line (CPL) family, designed in alignment with FACE™ standard, allowing customers to control their architecture independent of the Original Equipment Manufacturer (OEM) through the use of Lockheed Martin-provided data rights, software development environment, and non-proprietary interfaces. Re-use of this Common Product Line software on nine different programs has demonstrated savings of more than $100 million across a diverse set of platforms and mission capabilities. This approach has provided direct financial and schedule benefit to supported programs as measured in reduced Non Recurring Engineering (NRE) cost and higher baseline software maturity. The Lockheed Martin team brings a breadth of cockpit experience from over 100 C-130 cockpit upgrades with high volume cockpit production experience delivery and more than 500 MH-60 cockpits on time to the U.S. Navy.



Nine programs have experienced direct savings and accelerated schedule through reuse of Common Product Line (CPL) components

Fielded "CORE" Cockpits

U.S. Air Force Photo: C-130H

C-130T Cockpit

Bell Photo: V-280

Bell Photo: V-280 Cockpit

Full CNS/ATM Functionality

- RNP/RNAV down to 0.3
- TCAS II V7.1
- TAWS
- LPV Precision Approaches
- ADS-B
- EHS Mode S
- CPDLC/ACARS

Blended Tactical Functionality

- AJ GPS with M Code
- IFF Mode 5
- Integrated Situational Awareness
- CARP/HARP
- Tanker and Rescue Patterns
- Tactical Approaches

Customer Control of Future Upgrades

- Ability to leverage 180 existing Software Applications
- Customer Configurable Display Screens
- No Proprietary Interfaces; Open Interface Standards

LOW COST, LOW RISK

SCALABLE SOLUTION READY FOR A VARIETY OF PLATFORMS