INTUITIVE MULTIPLATFORM AOC CUSTOMIZATION TOOL (IMACT)

ENHANCE YOUR OPERATIONS

Easy-to-use customization tool for AOC

Collins Aerospace's Intuitive Multiplatform AOC Customization Tool (IMACT) enables each airline operations department to customize its Collins Aerospace Airline Operational Control (AOC) applications. Because the tool is intuitive and easy to use, you can achieve AOC customization without any software developing skills.

With IMACT, airlines can easily extend their AOC applications beyond the basic crew mailbox to enable specific procedures, by defining crew application human-machine interface (HMI) and data-link messages, enhancing airline operations.

Our latest generation of AOC applications, hosted on portable electronic devices (AOC on PED), benefit from the graphical capabilities of mobile devices and from access to Internet Protocol media available in the aircraft.

As today's most powerful AOC customization tool, IMACT provides "what you see is what you get" (WYSIWYG) editors that you can use to define menus, pages and messages formatting, along with automated features. These features monitor the aircraft situation and generate automatic downlink transmissions as aircraft tracking or Aircraft Meteorological Data Relay (AMDAR) reports.

With IMACT, a single customization project will manage customization throughout airline fleet configuration, assessing specificities related to each aircraft: avionics integration and cockpit crew interface.

IMACT's customization process encompasses the complete customization life cycle, from gathering operational needs and requirements to the final verification, testing and installation phase. All without the need for additional airworthiness approval.

Adding Collins Aerospace's information management services can provide you with flight operations tools (e.g., ARINC Hermes and ARINC OpCenter℠) to enhance existing airline ground applications.

KEY FEATURES AND BENEFITS

- Significantly reduces customization effort
- One tool addresses all Collins AOC configurations
- One single customization addresses the complete airline configuration, matching every aircraft type definition
- Includes validation and verification modules
- Offers large library of existing features

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SIMPLIFY CUSTOMIZATION DEVELOPMENT

IMACT is a modern tool with an intuitive interface that enables drag-and-drop mechanisms, copy/paste, undo, dynamic filtering, a customization warning module and pre-filled fields to simplify and speed the work.

It prevents customization errors and ensures that there will be no runtime error. The tool alerts you about any inconsistencies and reduces the testing effort. It maps avionics data between the different possible platforms, so there's no need to redevelop uplink/downlink AOC message processing when the same customization is deployed on a different platform.

Only the crew interfaces need specific customization for different platform displays (e.g., MCDU, ARINC 661 cockpit displays and tablet). However, the tool does support all of the Collins AOC proposed solutions.

Designing a page for AOC legacy platforms
(hosted on CMU and displayed on MCDU)

Design effort with existing customization tools	2 days
Design effort with IMACT	2 hours

Designing a message for AOC legacy

Design effort with existing customization tools	2 hours
Design effort with IMACT	15 min.

Coding a broadcast A429 acquisition for AOC legacy

Design effort with existing customization tools	2 hours
Design effort with IMACT	0 min.*

*Code is automatically generated

VALIDATE CUSTOMIZATION ON EVERY PLATFORM

Once the customization process is complete, you can validate and verify the AOC application with the provided tools. These modules include airborne AOC software and simulation models to provide you with a complete representative validation and verification environment.

IMACT embeds a library of original features as well as a collection of user-defined features. For new or modified features, you can use the graphical user interface to define associated cockpit human-machine interface, uplink/downlink AOC messages and specific processing.

With controls implemented every step of the way, IMACT guides you through the customization process – from defining requirements to successfully loading the applications onto the aircraft.
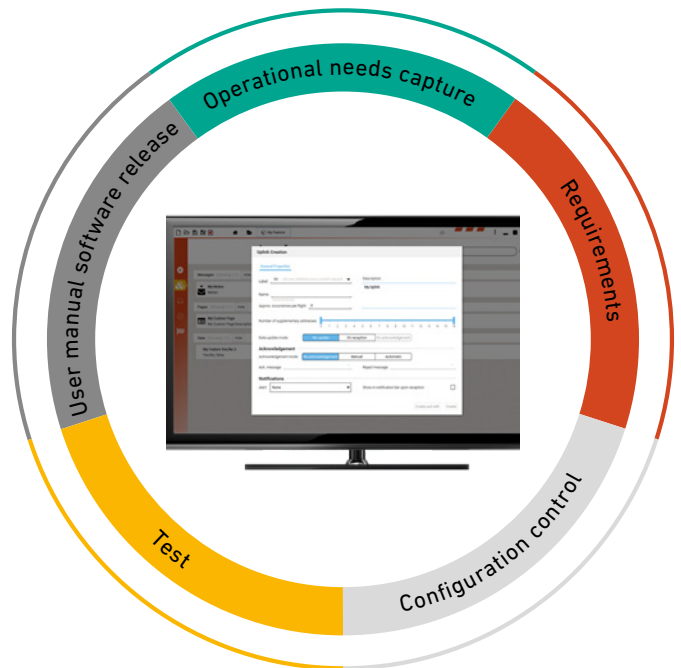
RE-USE FEATURES FROM IMACT CATALOG

Collins Aerospace developed many basic common features in the IMACT library. We are committed to enhancing this list on a regular basis. The existing IMACT features library includes, but is not limited to:

- Mission initialization
- AMDAR, PIREP
- Aircraft tracking
- Delay report, expected times
- Fuel report, fuel release
- Load sheet, takeoff and landing performance
- Notice to Airmen (NOTAM)
- Weather request

MINIMUM SYSTEM REQUIREMENTS TO RUN IMACT TOOL

- Microsoft® Windows® 7 (including 64-bit) or more recent
- Intel® Quad Core™ CPU 2 GHz (or compatible)
- 4 GB RAM
- 1600 x 1200 screen resolution, 1920 x 1080 (16:9 aspect ratio) recommended
- 500 MB available disk space

Specifications subject to change without notice.

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