Data Sheet

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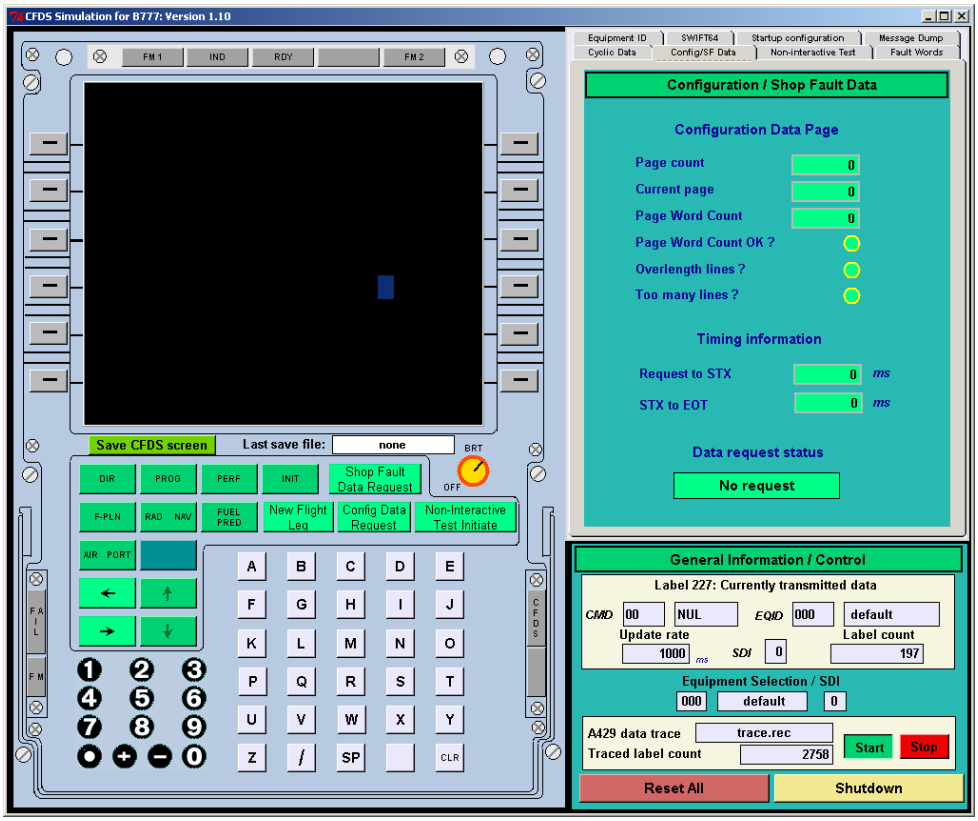
CFDS747/777

CFDS Simulation Package for Boeing 747- 400 and 777



- Simulates Boeing 747- 400 and 777 CFDS
- Interpretation of Fault Status Words
- Simulates all cyclic CFDS labels
- Issues Shop Faults Request
- Issues non-interactive Initiate Test Command
- Configuration Data Requests

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CFDS747/777

CFDS Simulation Package for Boeing 747- 400 and 777

Application Scope

The **CFDS747/777** is a dedicated application program to simulate the CFDS/OMS environment of both the Boeing 747-400 and 777 in a comprehensive and convenient way.

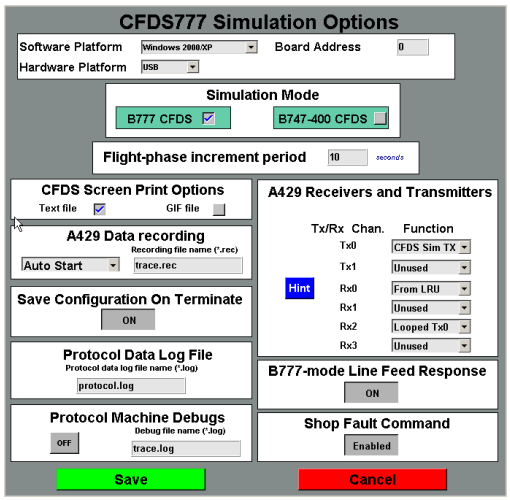
It operates in conjunction with any of the following ARINC 429 interface solutions from TechSAT:

> **A429-USB** – ARINC 429 USB device
> **A429-IPM** IndustryPack™ module mounted on the **A429-PCI-2G** carrier

A CFDS/OMS system package, consisting of an ARINC 429 device/card and the A429-CFDS simulation software, forms a powerful and cost-effective tool to operate components with CFDS/OMS interface for development, diagnosis, and repair purposes.

B747-400 and B777 Simulation Modes

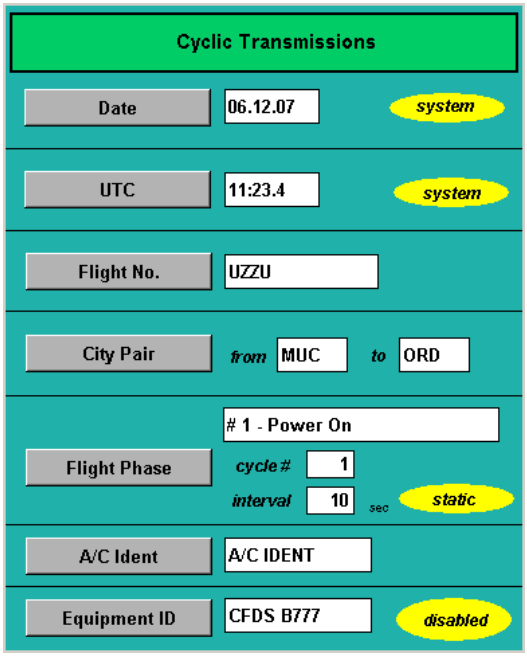
The simulation operates in two distinct, but very similar modes, covering all differences between the CFDS implementations in the two aircraft types.



Functions

The parameters of all cyclic CFDS/OMS labels can be manipulated. A dynamic function is available to generate time-dependent «Flight Phases» in order to perform entire flight-legs. A submenu allows interpreted monitoring of each FSW. Another submenu supports the complete realworld communication handshaking and data recording for non-interactive Initiated Tests.

All timing conditions and restrictions as defined in the appropriate Boeing specifications are fulfilled.
Received test results (FSWs) are recorded and displayed in FSW-interpretation. Shop data and configuration data



access is realized in another submenu. MCDU data display and message dump is available. Equipment Identification information is displayed. Command Summary Word equipment identification can be configured.

All configurations can be saved to be active for future sessions.

The entire ARINC 429 communication between an LRU and the CFDS simulation can be recorded.

An extra tool (DataView) is provided that allows post-analysis of the communication for troubleshooting and documentation purposes.

Technical Data

Hardware Requirements

- ARINC 429 interface – available options:
  - A429-USB (PN 702125)
  - A429-IPM (PN 702053) on 2-slot (PN 702061) or 4-slot A429-PCI-2G carrier (PN 702069)

Operating System Options

- Windows 10

Part Number

- 202069

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