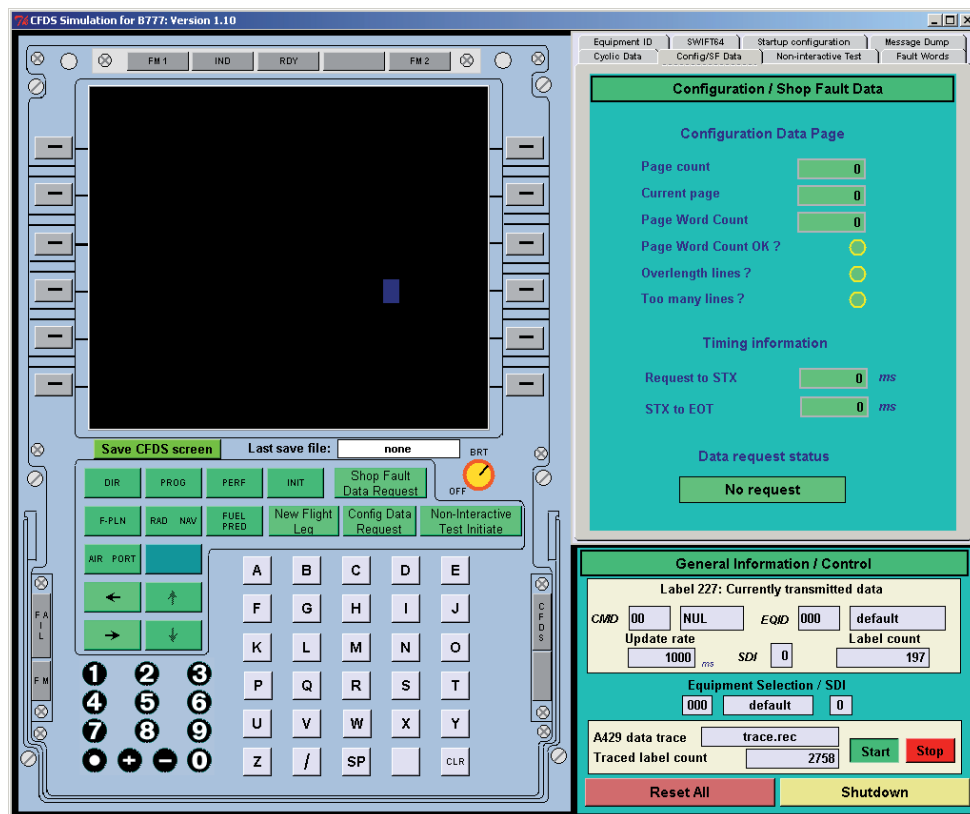


CFDS747/777

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



mastering
realtime
complexity

CFDS747/777 CFDS Simulation Package for Boeing 747- 400 and 777

General

The A429-CFDS 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 the TechSAT ARINC 429 USB-device A429-USB (mobile) or PCI-card A429PCI-2G (stationary). A CFDS/OMS systempackage, 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. The simulation can operate in two different, but very similar modes, covering all differences between the CFDS implementation in the two AC types.

Cyclic Transmissions	
Date	06.12.07 system
UTC	11:23.4 system
Flight No.	UZZU
City Pair	from MUC to ORD
Flight Phase	# 1 - Power On
	cycle # 1 static
	interval 10 sec
A/C Ident	A/C IDENT
Equipment ID	CFDS B777 disabled

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.

Non-Interactive Test	
Fault word 1 (350)	
Update rate	Active A429 32-bit label
0 ms	00000000 hex
Ack (bit 29)	ACK Test inhibit (bit 28) Inhibited
SDI	SSM No Computed Data
0	0
Faults	0
Test timing information	
Request to SSM test	0 ms
Test duration	0 ms
Test status	
Test not available	
Fault word stability	

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.

CFDS777 Simulation Options	
Software Platform	Windows 2003/XP
Hardware Platform	USB
Board Address	
Simulation Mode	
<input checked="" type="checkbox"/> B777 CFDS	<input checked="" type="checkbox"/> B747-400 CFDS
Flight-phase increment period 10 seconds	
CFDS Screen Print Options	A429 Receivers and Transmitters
Text file	Tx/Rx Chan. Function
Auto Start	Tx0 CFDS Sim Tx
Save Configuration On Terminate	Tx1 Unused
ON	Rx0 From LRU
Protocol Data Log File	Rx1 Unused
protocol.log	Rx2 Suspended Tx0
Protocol Machine Debugs	Rx3 Unused
Trace.log	B777-mode Line Feed Response
Shop Fault Command	ON
Save	Enabled
Cancel	

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.