



### CPAS-3000 Data Loader

February 22, 2016 Frank Gutierrez

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# Collins Portable Access Software CPAS-3000 Version 2.7 Set-up for Microsoft Windows Operating System







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### Aircraft w/ File Server Unit (FSU)

• FSU Requires use of Collins Portable Access Software (CPAS) and user provided laptop PC



Collins Portable Access Software (CPAS) CPN 810-0032-001





### Aircraft w/ FSU •

The following cable description is for the wiring of both ends (RJ45 Male connectors) with the 568B category 5(e)

Note: Most aircraft use the standard 568B category 5(e) cable.

#### TIA/EIA 568B Wiring

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Pin No.	strand color	Name
1	white and orange	TX+
2	orange	TX-
3	white and green	RX+
4	NC	*
5	NC	*
6	green	RX-
7	NC	*
8	NC	*





#### CPAS connects the laptop PC to the FSU Ethernet connection and the aircraft RJ45 connector.

Crossed cables are sometimes called Crossover, Patch or Jumper cables.

Note: Use the Crossover cable for production Hawker Beechcraft (HBC) aircraft. HBC Aircraft that are an IFIS retrofit may use the standard cable.

#### TIA/EIA 568B Crossed Wiring



One end RJ45 Male	Other end RJ45 Male
1 TX+	3 RX+
2 TX-	6 RX-
3 RX+	1 TX+
4 * NC	5 * NC
5 * NC	4 * NC
6 RX-	2 TX-
7 * NC	8 * NC
8 * NC	7 * NC

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### **Computer Compatibility**

Most notebook computers and network cards are compatible with CPAS.

Note: It is possible to have a computer network card or operating system that is not set up to run CPAS successfully. Rockwell Collins does not have control over third party hardware and software compatibility. Instructions for manually setting up the network card is at the end of this presentation.





### **Computer Compatibility**



Even the little computers with 10" screens or tablet PC's that run the Windows operating system and has a RJ45 Ethernet connector should work with CPAS.

Note: To work properly, you may need to change the 615A parameters and controls "Block Size" to 512.

BLOCK SIZE (BYTES): This value specifies the largest block size that a load operation will accept or reject. The default value is 32,768 bytes.

See the CPAS-3000 operator guide, program operation (V2.6 CPN 523-0790386 or V2.7 CPN 523-0810629 for more information.

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### **Computer Compatibility**





**Note 1:** Boot Camp enables you to install Windows on the Intel-based Mac computer, using a Microsoft Windows install disc that you provide.

**Note 2:** Under CPAS Configuration/Network tab, uncheck the "Restore Original Adapter Parameters on Exit" box. If this isn't accomplished you will get an "Unable to restore the original adapter settings error.



### **Databases**

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- CPAS is used to upload databases to LRUs such as:
  - FSU (Charts & Maps)
  - FMC (FMS Database)
  - MDC (checklists and tables)
  - 429-Based LRUs Use ARINC 615-3 Protocol Over ARINC 429



Collins Portable Access Software (CPAS) CPN 810-0032-001



### **CPAS-3000 V2.7**

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3-0807061		
Service Informatio	<u>n Lette</u> r	Rockavell Collins
		523-0807061-20100
	CPAS-3000 DATA L	OADER
Se	rvice Information L REVISION NO.	etter 1-04 . 2
SIMPLIFICAT	ION OF CPAS-3000	COMPUTER SETUP
TRANSM Summary	ITTAL INFORMATI	ON SUMMARY
This is revision 2 of SIL 1-04 for th	ne CPAS-3000 Data	Loader.
This revision informs Rockwell Co	llins, Inc. CPAS-300	0 users that V2.7 is available.
This revision also updates the form	nat and content to cu	urrent publications standards.
Black bars in the margins indicate	the changes.	
Replace revision 1 with this revision	on.	
Service Information Letter Revisio	on History	
REVISION		DATE OF RELEASE
Initial Release		February 9, 2005
Revision 1		August 16, 2005
Revision 2		March 26, 2008
NFO	Notice RMATION SUBJECT TO EX Introlled for export under the	(PORT LAWS
730-774. Violations of these laws may be subject	to fines and penalties unde	r the Export Administration Act.
The technical data in this document (or tale) is co 730-774. Violations of these laws may be subject Export Control Classification Notice (ECCN) for	to fines and penalties under this document is 7E994.	r the Export Administration Act.



### **CPAS-3000 V2.7 Updates**

- New CPAS installation software.
- Works with Windows Vista and Windows 7 operating systems.
- Adds ARINC 429 NDOs for ARINC 615-3 data loads.
- Fix for importing FMS type 7 Navigation databases into CPAS,
- Detect if virus detection software is running.
- Automatically identify and selects LAN adapters.
- Provides a help feature on how to disable wireless LAN adapters.
- "Sort by date" and "sort by name" feature in the Manage Data/Software Window.
- Improved data load progress indications.
- Pre-operation/preparations checklist feature, cockpit effect "pop-up", and data load session conclusion advisories "pop-up".
- Improvements of data load page items nomenclature.



### CPAS-3000 V2.7 Updates

- Redefined graphics for data load and manage data software.
- CTRL+Select feature in Manage Software /Data window.
- Directory location selection window prior to the importation window to alleviate occasional "hang-up" prior to importation.
- Changed file-transfer-in-process graphics.
- Add a "Refresh Window" button to the Manage Data/Software window.
- Re-arranged data loader page buttons.
- Eliminated ghost FMS3 target from list on data loader page.
- Changed default settings on data load page close page on completion setting to "ON".
- Reordered the data load progress indicators on the data load page.
- Released first week of May 2008.

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# CPAS-3000 Version 2.7 Setup





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### **Rules for Setting up Computer**

- Must have administrator rights on the computer.
- All spyware/virus protection and firewalls should be turned off prior to installation.
- Turn off the User Account Control in Microsoft Vista, Windows 7 & Windows 8.X prior to installation.



### **User Accounts Control**

### Vista

1. Start Button

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2. Control Panel

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- 3. User Accounts and Family Safety
- 4. User Accounts
- 5. Turn User Account Control on or off

Windows need your permission to continue .... Click the continue button.



### Windows 7

- 1. Start Button
- 2. Control Panel
- 3. User Accounts and Family Safety
- 4. User Accounts
- 5. Change User Account Control settings
- 6. { Set slider to "Never notify"}... click OK

😵 User Account Control Settings	
Choose when to b User Account Control h Tell me more about Use	e notified about changes to your computer elps prevent potentially harmful programs from making changes to your computer. r Account Control settings
Never notify	Default - Notify me only when programs try to make changes to my computer         • Don't notify me when I make changes to Windows settings         • Recommended if you use familiar programs and visit familiar websites.
	<b>OK</b> Cancel



### User Accounts Control Windows 8.1 or 10 not supported

Right mouse click on the windows icon, then left click on the Control Panel option.

	Programs and Features
	Mobility Center
	Power Options
	Event Viewer
	System
	Device Manager
D	Network Connections
	Disk Management
	Computer Management
	Command Prompt
	Command Prompt (Admin)
	Task Manager
	Control Panel
	File Explorer
	Search
	Run
	Shut down or sign out
	Desktop

- 1. Start Button (right click)
- 4 🤌 🗎

- 2. Control Panel
- 3. User Accounts and Family Safety
- 4. User Accounts
- 5. Change User Account Control settings
- 6. { Set slider to "Never notify"}... click OK

Always notify	
	Notify me only when apps try to make changes to my computer (default)
	<ul> <li>Don't notify me when I make changes to Windows settings</li> </ul>
	<ol> <li>Recommended if you use familiar apps and visit familiar websites.</li> </ol>
Never notify	

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### **Windows Firewall**

### Vista

1. Start Button



2. Control Panel

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3. Security

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4. Windows Firewall

### ⇒a. Turn Windows Firewall on or off



### Windows 7

- 1. Start Button
- 2. Control Panel
- 3. System and Security
- 4. Windows Firewall
- 5. Turn Windows Firewall on or off
- 6. Set private and public network off.....click OK





### **Windows Firewall**

### Windows 8.1 or 10 not supported

- 1. Start Button (right click)
- 2. Control Panel



- 3. System and Security
- 4. Windows Firewall
- 5. Turn Windows Firewall on or off
- 6. Set private and public network settings off.....click OK





### **Loading and Running CPAS**



After setting up your Windows Operating system, Load CPAS-3000 on your notebook computer by following the instructions in the operator guide. (CPN 523-0810629)

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### **Preparing the Data for CPAS-3000**

- 1. Verify the databases that are required and their effective dates.
- 2. Downaload Data from the Rockwell Collins fms database website for the FMS. These may include:
  - a. Performance Database
  - b. Vspeed Database
  - c. Navigation Database
- 3. Downaload Data from the Rockwell Collins fms database website for the FMS & FSU. FSU databases may include:
  - a. IFIS E-maps
    - Airspace & Airways (VOR / Victor Airways and Jet Routs)
    - Overlays (maps graphical weather data)
    - Geopolitical (Boundaries for states and some large bodies of water)
  - b. IFIS XM GWx (graphical weather) or
  - c. IFIS Datalink GWx (IFIS Universal GWx)





### **FSU Databases Info**

FSU Database	Update Cycle	Load Time w/ CPAS	Comments
Electronic Charts	14 Days	8-10 mins	Distributed by Jeppesen
Enhanced Maps	28 Days	3-4 mins	Contains Airways, Airspace and Geopolitical Data
Graphical Weather	1 Year	3-4 mins	Contains Geopolitical Overlays

### **FMC Databases Info**

FMC Database	Update Cycle	Load Time w/ CPAS	Comments
Nav	28 Days	25-30 mins	For World Database
Performance. or VSpeeds	On Demand	4-6 mins	Depends on Size of Database
Routes or Waypoints	On Demand	> 1 min	Depends on Size of Database





### **MDC Databases Info**

MDC Database	Update Cycle	Load Time w/ CPAS	Comments
Diagnostic Tables (MDC 3100 & 4100 series)	On Demand	10-15 mins	Depends on Size of Tables
Checklists	On Demand	4-6 mins	Depends on Size of Checklists



### **Checking FMS Database Status**

- FMS STATUS page indicates the status of the 28 day data bases dates.
- When the database is out of date, a new databases will need to be uploaded before the FMS should be used.





### **DATABASE EFFECTIVITY (AFD-3010E)**





### **CURSOR CONTROL PANEL (CCP-3000)**

The Cursor Control Panel (CCP-3000) provides controls for the IFIS formats.

The STAT button may be labeled DATABASE, depending on the installation.

Push the STAT button on the CCP to display the STAT MENU on the MFD.

Turn the MENU ADV knob until the cursor is on the DATABASE EFFECTIVITY list item.

Push the PUSH SELECT button on the CCP to select the DATABASE EFFECTIVITY page.





# Downloading The Database from Rockwell Collins Web Portal.



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Before downloading your database, you will want to prepare your USB flash drive with the file folder(s) needed to keep your databases separate from each other. Name the folders so you can easily find which database you are looking for.

Right click the open area on the right side of the windows explorer view of your flash drive. Hover the cursor over New and left click on Folder. Give the New Folder a unique name.





### **Extracting the Database**

- The databases downloaded from Rockwell Collins will need to be uncompressed (extracted/unzipped) to a USB flash drive.
- Double click the .EXE file to extract the data to the USB flash drive. Each database can be in its own folder.



• Import the database into CPAS using the Manage Data/Software button.



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From your Web Browser, type in <u>www.rockwellcollins.com/fms</u> this will take you to the Services and Support web site

http://www.rockwellcollins.com/Services\_and\_Support/Database\_and\_Software\_Updates/Navigation\_Databases.aspx







### Click on **Download Databases**





### https://profile.rockwellcollins.com/SSOLogin/Login.htm

Login with your User ID and Password you previously set up with the Rockwell Collins Database Subscriptions group.

	- □ ×
File Edit View Favorites Tools Help	× ®₂ -
Rockwell Collins	Log in
Welcome to the Rockwell Collins Account Management Center.	<u> </u>
To log in, enter your User ID and password. *Indicates Required Field	
User ID (email address): * Password: *	
Log in	
Create new account   Forgot password?   Help	





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← → Image https://www3.rockwellcolli	ñ	$\star$	₽
File Edit View Favorites Tools Help	x		Ψ.
Welcome, Frank Gutierrez Log Out Change Password			~

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Here are the databases you are eligible to download:

#### **Rockwell Collins - Internal ONLY**

Click one of the following databases to download it:

GPS Predictor	Release 831-4894-009 (4.13 MB)
GPS Predictor NavDb	Eff: 12 Dec 13 to 08 Jan 14 (7.25 MB)
GPS Predictor NavDb LSY	Eff: 12 Dec 13 to 08 Jan 14 (7.97 MB)
IFIS DL GWX	Release 10 - EFF: 13 May 13 to 31 Dec 14 (307 KB)
IFIS E-Maps-USB	Eff: 14 Nov 13 to 11 Dec 13 AND 12 Dec 13 to 08 Jan 14 (8.94 MB)
IFIS XM GWx-USB	Release 10 - EFF: 08 Apr 13 to 31 Dec 14 (328 KB)
J6 World-USB	Eff: 14 Nov 13 to 11 Dec 13 AND 12 Dec 13 to 08 Jan 14 (6.81 MB)

Download the databases for your aircraft. The available databases will vary depending on type of aircraft and avionics installed.







Save the file to your USB flash drive or computer hard drive. Use the Save as feature so you know the location such as the desktop or a folder of your choice.

	Save
Eff: 12 Dec 12 to 02 Jap 14 (16 22 MP)	Save as
Do you want to run or save J6_World-USB.exe (6.49 MB) from www3.rockwellcollins.com?	Save and run
Windows Vista, 7, & 8	~



Save the file to your USB flash drive where you created the new folder.

<b>2</b>	Save As		×
	:) ▶ J6 World	✓ C Search J6 World	م
Organize 🔻 New folder			:== 👻 🔞
🖉 🕳 Removable Disk (l:) 🌗 Emaps 08 Jan 2014	Name	Date modified Type	Size
🍑 GWX DL 🌗 GWX Screen Shots	🖏 J6_World-USB	12/24/2013 10:03 Application	6,648 KB
GWX XM Image Capture			_
📕 J6 World			
]] J7 World			
]] J8 World			
> 🌗 Jepp 24			
Dep 25			
퉬 Jepp 26			
퉬 Logitech Unify Win7			
🌗 PL21 SVS Apt-Rwy			
PL21 SVS Obstacle	v		
File name: J6_World-USB			~
Save as type: Application			
Application			· · · · · · · · · · · · · · · · · · ·
lide Folders		Save	Cancel .::





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With Windows Explorer open to the directory you created on your USB drive you can see the files unzip to the folder assuring you they are extracting to the correct location.

	🌆 l 📑 🚺 = l	Application Tools			J6 World		- 🗆 🗙
	File Home Share View	w Manage					~ <b>?</b>
WinZip Self-Extractor - J6_World	-USB.exe 🛛 🔼 🕞	Removable Disk (I:) →	J6 World		✓ C	Search J6 World	م
To uppin all files in JC World LISP are to the			^	Name	Date modified	Туре	Size
appointed folder prove the Lipzin butter	Unzip			🖙 J6_World-USB	12/24/2013 10:03	Application	6,648 KB
specified folder press the onzip batton.				J6WLD40.ACM	11/26/2013 2:59 PM	ACM File	540 KB
	Run WinZip			J6WLD40.AII	11/26/2013 2:59 PM	All File	14 KB
Unzip to folder:				J6WLD40.AIP	11/26/2013 2:59 PM	AIP File	1 KB
I:\J6 World Browse	Close			J6WLD40.AIR	11/26/2013 2:59 PM	AIR File	623 KB
				J6WLD40.APL	11/26/2013 2:59 PM	APL File	612 KB
<ul> <li>Overwrite files without prompting</li> </ul>	About			J6WLD40.APP	11/26/2013 2:59 PM	APP File	236 KB
	About			J6WLD40.APX	11/26/2013 2:59 PM	APX File	3,898 KB
				j6WLD40.AWI	11/26/2013 2:59 PM	AWI File	24 KB
	Help			j6WLD40.AWL	11/26/2013 2:59 PM	AWL File	920 KB
				J6WLD40.AWX	11/26/2013 2:59 PM	AWX File	1 KB
Lipzing IGWLD40 WPL				J6WLD40.AWY	11/26/2013 2:59 PM	AWY File	165 KB
onapping correspond				SWLD40	11/26/2013 2:59 PM	Data Base File	2 KB
				J6WLD40.ILS	11/26/2013 2:59 PM	ILS File	68 KB
	My Passport (E:)			J6WLD40.NAI	11/26/2013 2:59 PM	NAI File	15 KB
After the presses her	My Passport (G;)			J6WLD40.NAP	11/26/2013 2:59 PM	NAP File	1 KB
Alter the progress par	16GB (H:)			J6WLD40.NAV	11/26/2013 2:59 PM	NAV File	397 KB
	Removable Disk (I:)			J6WLD40.NDB	11/26/2013 2:59 PM	NDB File	221 KB
has finished, a pop up	Emaps 08 Jan 2014			J6WLD40.NDI	11/26/2013 2:59 PM	NDI File	10 KB
	GWX DL			J6WLD40.NDP	11/26/2013 2:59 PM	NDP File	1 KB
window will prompt	GWX Screen Shots			J6WLD40.RWY	11/26/2013 2:59 PM	RWY File	328 KB
	GWX XM			J6WLD40.SID	11/26/2013 2:59 PM	SID File	259 KB
when finished	Image Capture			J6WLD40.SIL	11/26/2013 2:59 PM	SIL File	393 KB
	blood all			J6WLD40.SIX	11/26/2013 2:59 PM	SIX File	2,084 KB
	J7 World			J6WLD40	11/26/2013 2:59 PM	Macromedia Fire	283 KB
Min Tim Calif Entrancian X	📕 J8 World			J6WLD40.STR	11/26/2013 2:59 PM	STR File	208 KB
WinZip Self-Extractor	퉬 Jepp 24			J6WLD40.STX	11/26/2013 2:59 PM	STX File	1,539 KB
	Jepp 25			J6WLD40.TER	11/26/2013 2:59 PM	TER File	1,795 KB
30 file(s) unzipped successfully	🌗 Jepp 26			J6WLD40.WPI	11/26/2013 2:59 PM	WPI File	110 KB
	퉬 Logitech Unify Win7			J6WLD40.WPP	11/26/2013 2:59 PM	WPP File	I KB
	PL21 SVS Apt-Rwy			J6WLD40.WP1	11/26/2013 2:59 PM	WP1 File	931 KB
	PL21 SVS Obstacle						
OK							
			~				
	31 items 1 item selected 6.49 MB						:== E

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#### **E-CHART Database subscriptions**

Jeppesen Subscription CD ROM discs (2) arrive bi-weekly



Disc 07-2012 Issue Date 30 MAR 2012 Discontinue use immediately upon receipt of Disc 08-2012

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JeppView<sup>®</sup>

Electronic Charts For Rockwell Collins Pro Line 21 and Pro Line Fusion®

Disc 26-2011 Issue Date 23 DEC 2011

Discontinue use immediately upon receipt of Disc 01-2012

Customer Support: 800.553.7750 or 303.328.4244 • FAX: 303.328.4124

> Rockwell Collins Avionics Technical Support: 319.295.5000



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## **E-CHART Database subscriptions** (JeppView for the personal computer)

This DVD-ROM disc is for a PC based Chart viewing tool called JeppView

<u>Do not</u> load this into the File Server Unit (FSU)

This is very useful desk top PC tool for preflight and or printing specific charts prior to flight.







## **E-CHART Database subscriptions** (JeppView for the File Server Unit)

 This CD is loaded into the File Server Unit (FSU)

The databases associated with E-charts must be loaded into the FSU before the system is functional.

Make sure all pertinent information (subscription numbers, access codes, etc.) is available before attempting to install databases.





## Jeppesen Services Update Manager (JSUM)





Download	and Program Now			
Г			Browse N	
C Download	and Save To Hard Di	rive Oplu	Q	
, Download	anu save 10 Malu Di	ine only		
Status				-
The removable r manually pick th	nedia drive was not fo e removable media dr	ound. Press the 'B ive.	rowse' button to	L
				L
	Continue	Cancel		
	Continue	Cancel		
	Continue	Cancel	Download	

Most customers are now receiving their electronic charts updates from Jeppesen over the internet using the JSUM program.

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# Loading the Data Base to CPAS-3000



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#### Manage Data/Software



Double click the Manage Data/Software button to import the database from your USB flash drive.



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## **CPAS Loading**

Manage Data/Software

Verify Needed Databases are loaded into CPAS, then close







The import function copies and installs desired database in CPAS

CPAS does not need to be connected to the aircraft to Import Databases







Select a Directory	
Directory <u>N</u> ame: j:\FSU_E-Maps È i:\ È FSU_E-Maps	OK Cancel
Drives:	

Select the database to import (E-Maps database in this example) was saved to a folder created prior to extracting (unzipping) the data.











Importing Data/Software	
EMaps_1111_Exp_16Nov11	Done!
Close	

#### An importing progress box appears, select Close when done



# **Removing Old CPAS Databases**



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#### **Database Removal Through CPAS**

- 1. Manage Data Software
- 2. Select the database to be removed.
- 3. Select Yes to remove.

Manage Data/Softw	are		Ð
Data/Software Inst	alled on CPAS:		
Data/Software		Date Created	Remove
J6-WLDW-R1 E	xpires: 03FEB16 (6)	01/05/2016 08:34 AM	Import
anage Data/Software		×	Check Integrity
Data/Software Installed on CPAS:			Refresh
Data/Software 🔺	Date Created	Remove	Advanced
J6-WLDW-R1 Expires: 03FEB16 (6)	01/05/2016 08:34 AM	Import	
CPAS-3000 Data Loader	×	Check Integrity	
		Refresh	Close
Are you sure you want t	o remove the loadsets?	Advanced	
Yes	No		
		Close	



# Upload the Data Base to Your Aircraft



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## **CPAS Loading to Aircraft**

- To achieve the best data loading experience, make sure the aircraft is on 28VDC ground power and the notebook computer is plugged into 110VAC.
- Make sure the aircraft is in the maintenance mode. Some aircraft will have a maintenance switch and others will be switched automatically when on ground.
- Connect computer and Ethernet cable to aircraft RJ45 connector.
- Apply avionics power (if not on already)
- Launch CPAS Application by Double Clicking CPAS Icon on desktop







#### **Dataloading to the Aircraft**



Double click the Dataload button to upload the database to the aircraft.



## **CPAS Loading**

E CPAS-3000 Launch Pad	
CPAS-3000 Collins Portable Access Software	Rockwell Collins
Double-click on a button to launch the application	Exit
Dat Starting CPAS-3000	×
Waiting for the network adapter to be configured and for CPAS-3000 to start u	p

Verify that this message appears



### **CPAS Loading: Uploading a Database**







- Loading operations nomenclature
- Uploading: Moving data from a disk, computer, etc. to the aircraft



 Downloading: Moving data from aircraft to disk, computer, etc.





## **CPAS Loading: Uploading a Database**







#### **CPAS Loading: Uploading a Database**

Collins 0 XTLK DATABASE EFFECTIVITY MFD DATABASE DATABASE BEGIN STATUS END FMS 1 NAV 15 APR 04 12 MAY 04 NOT CURRENT **EFFECTIVITY** menu FMS 2 NAV --- -initially displays PROCESSING REQUEST **"PROCESSING** REQUEST", and then **"FSU INOP"** <u>This is a normal</u> *indication* 



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#### **CPAS Loading: Uploading a Database**





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#### **CPAS Loading: Uploading a Database**





#### **CPAS Loading: Uploading a Database**





# **CPAS Loading: Uploading a Database**



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#### **CPAS Loading: Uploading a Database**

Status box closes when load is complete

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> Repeat steps for additional database updates Close when

> > done

File View Help - Load Direction State Download 📕 🔶 😓 Upload Select Target/LRU to be Updated Show Detailed Information: B FSU -L28 (Col\_FSU) FSU Type Name: L28 Position: Select Data/Software to be Updated: Hardware ID: Col\_FSU Load From Hard Drive EMaps\_0505\_Exp\_08Jun05 -Literal Name: Col\_FSU FSU Manufacturer's Code: COL Load From Address: 10.177.28.1 CD Part number: EMaps\_0505\_Exp\_08Jun05 Version: 8001 Status

For Help, press F1

🎒 CPAS-3000 Data Loader





## **CPAS Loading: Uploading closeout**



Select "Exit" to close program

Disconnect Ethernet Cable from aircraft

FSU Recovers automatically in a few minutes



# Down Load LRU Data from the Aircraft to CPAS-3000



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#### **CPAS Loading: Downloading a Database**

	Eile <u>V</u> iew <u>H</u> elp	
To Download data from an LRU select "Download"	CPAS-3000 Data Loader     File Verw Helo     Load Direction     Select Target/LRU to be Updated     MDC     Select Data/Software the Updated     Image: Select Data/Software the Updated     Select Data/Software the Updated	
	For help, press F1	NUM



#### **CPAS Loading: Downloading a Database**

	Ø CPAS-3000 Data Loader	
	<u>File Vi</u> ew <u>H</u> elp	
	Load Direction	
	Select Target/LRU to be Updated:   Image: Constraint of the second sec	
Select which LRU download from. T s used in this exa	J to The MDC ample.	
	For Help, press F1	NUM



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## **CPAS Loading: Downloading a Database**

Eile View Help Load Direction	
Load Direction	
Select Larget/LRU to be Updated:   MDC Befresh   Image: MDC Image: MDC	
Select Data/Software to be Updated: Configuration Strapping Data Current Fault Messages Current Service Messages Engine Exceedance Data Engine Trend Data Fault Message History Flight Leg Summary Life Cycle Data LRU Diagnostic Data LRU Diagnostic Data	
Select which File from your selected LRU to download	



#### **CPAS Loading: Downloading a Database**

	Ø CPAS-3000 Data Loader	
	Eile <u>V</u> iew <u>H</u> elp	
	Load Direction	
	Select I arget/LRU to be Updated:   Image: Select Data/Software to be Updated:   Image: Select Data/Software to be Updated:   Image: Select Drive     All Reports   Select Drive   Select Drive   Image: Select Drive	
Select "Begin Load" to initiate download of file (All Reports in this example)	Status	
	For Help, press F1	NUM



#### **CPAS Loading: Downloading a Database**





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#### **CPAS Loading: Downloading a Database**

	② CPAS-3000 Data Loader	
	File <u>V</u> iew <u>H</u> elp	
	Load Direction	
	Select Iarget/LRU to be Updated:   Image: Befresh Targets     MDC   Image: Befresh Targets     Select Data/Software to be Updated:   Image: Befresh Targets     All Reports   Image: Befresh Targets     Select Data/Software to be Updated:   Image: Befresh Targets     All Reports   Image: Befresh Targets     Select Data/Software to be Updated:   Image: Befresh Targets     All Reports   Image: Befresh Targets     Select Drive   Select Drive	
	Begin Load	
	Overall Progress: 100%   Heading data for file: G150HIGX.LDD     Data read - Length: 2048   Writing to file: G150HIGX.LDD     Data read - Length: 2048   Writing to file: G150HIGX.LDD     Reading data for file: G150HIGX.LDD   Reading data for file: G150HIGX.LDD     Data read - Length: 2048   Writing to file: G150HIGX.LDD     Reading data for file: G150HIGX.LDD   Reading data for file: G150HIGX.LDD	
Select "Close Status" when	Data read - Length: 2048     Writing to file: G150RIGX.LDD     Reading data for file: G150RIGX.LDD     Data read - Length: 583     Writing to file: G150RIGX.LDD     File: G150RIGX.LDD     File: G150RIGX.LDD     File: G150RIGX.LDD	
download is complete	Helease requested. DBU Reserved Operation complete received from the target. Waiting to be released. Release requested. Dataload completed.	<b>₩</b>
	Close Status Close Status on Completion  E Display Logged Status Info	NUM





#### **CPAS Loading: Downloading a Database**

😂 C: Program Files Rockwe	ll Collins\CPAS-3000 Dataload	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	Iools Help	<b>A</b>
🔇 Back 🔹 🕥 🕐 🏂 🔒	Search 🔀 Folders	
Address C:\Program Files\Rock	well Collins\Dataload\loadsets\DBU\Output\MDC	🖌 🄁 Go
File and Folder Tasks	20051A.FMH FMH File 240 KB	^
Other Places	*	
Details		<u>11-11</u>
		~

Downloaded MDC files can be viewed at default directory *C:\Program Files\Rockwell Collins\CPAS-3000 Dataload\Voadsets\DBU\O utput\MDC* 

Tip: Make a shortcut to your desktop so you can easily find the data you downloaded for future use.



Manually configuring Network Interface Card Internet Protocol Address and Subnet Mask

Use this only if CPAS continues to not connect through the network card in the notebook computer.



Building trust every day

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#### **NIC IP Error Message**

Note: during installation if you see an error message that reads: "Unable to automatically select a dataload Network adapter..." or maybe "Unable to retrieve one or more of the dataload adapter network settings..." you will need to manually configure the NIC IP Address and Subnet Mask.

- a. Go to 'Control Panel", doubleclick 'Network Connections'.
- b. Right Click on 'Local Area Connection' and select 'Properties'.
- c. On the Local Area Connections Properties window, select the 'Internet Protocol (TCP/IP)' item in the list and then click the 'Properties' button.
- d. Click the 'Use the following IP address:' button and enter the following values: IP Address 10.191.254.254, Subnet Mask 255.240.0.0, and leave default gateway blank
- e. Click OK





#### **IP (TCP/IP) Properties**

Internet Protocol (TCP/IP) Prope	rties 🔹 💽 🔀					
General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
Obtain an IP address automatically						
• Use the following IP address:						
IP address:	10 . 191 . 254 . 254					
S <u>u</u> bnet mask:	255.240.0.0					
Default gateway:	· · ·					
O Obtain DNS server address autor	natically					
<ul> <li>Use the following DNS server add</li> </ul>	dresses:					
Preferred DNS server:	· · ·					
Alternate DNS server:						
	Ad <u>v</u> anced					
	OK Cancel					



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## Manually configure NIC Speed and Duplex settings

On the 'Local Area Connection Properties" window continuing from the above instructions, click the 'Configure...' button. If it asks you if want to proceed click "yes

You will need to set up your speed and duplex settings. The exact tab name may be different for you PC but the concept is the same. If there is a tab called "Link Speed" use that tab or it may be under the advanced tab. In any case you will want to set you link speed and duplex to 100Mb Full Duplex (100 Mb Full).

Broadcom NetXtreme 57xx Gigab	oit Controller Propert 🕐 🔀
General Advanced Driver Resource	es Power Management
The following properties are available for the property you want to change on the on the right.	or this network adapter. Click eleft, and then select its value
Property:	<u>V</u> alue:
802.1p QOS Flow Control Speed & Duplex Wake Up Capabilities	100 Mb Full 10 Mb Full 10 Mb Full 100 Mb Full 100 Mb Half Auto
	OK Cancel





#### **Disable CPAS NIC Reconfigure Process**

- a. Run 'regedit' and navigate to "HKEY\_CURRENT\_USER\Software\Rockwell Collins\CPAS-3000 Data Loader\Network".
- b. Select Edit -> New -> DWORD Value. Set the name of the value to "Reconfigure Net Adapter" and make sure the value is set to 0. This value tells CPAS not to do the network card reconfiguration on startup and shutdown.

💣 Registry Editor 📃 🗆 🔀				
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>H</u> elp				
PluginPanel     Policies     Rational Software     Rockwell Collins     CPAS-3000 Data Loader     G153     G15A     Dataload     DBU     FSU     Inport     IOC     Network     Settings		Name (Default) (Defa	Type REG_SZ REG_SZ REG_DWORD REG_DWORD REG_SZ REG_DWORD	Data           (value not set)           10.191.254.254           0x00000240 (576)           0x00000001 (1)           255.240.0.0           0x00000000 (0)
	>	<		>
My Computer\HKEY_CURRENT_USER\Software\Rockwell Collins\CPAS-3000 Data Loader\Network				





## Manually Set NIC setting for CPAS operations MTU

- a. In 'regedit' navigate to HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Para meters\Interfaces.
- b. Underneath that branch is a separate branch for each network adapter on your system. The adapters are listed out by their GUID, so to try to match up the one you want you'll either have to check each branch and try to match by the IP \ Subnet values shown under the key (see step 2d). Once you've found the branch for your network adapter, Select Edit -> New -> DWORD Value. Set the name of the value to "MTU". Set the value to Decimal 576





#### Manually Setting NIC setting for CPAS operations MTU value to 576

💣 Registry Editor 📃 🔲 🛃						X
<u>Eile Edit View Favorites Help</u>						
🕀 🧰 Symmpi	^	Name	Туре	Data		^
🗈 🦲 sysaudio		(Default)	REG_SZ	(value not set)		
BysmonLog		B AddressType	REG_DWORD	0×00000000 (0)		
		ab DefaultGateway	REG_MULTI_SZ			
		ab DefaultGatewayMetric	REG_MULTI_SZ			
		👪 DhcpClassIdBin	REG_BINARY	(zero-length binary value)		
		ab DhcpServer	REG_SZ	255.255.255.255		
Adapters		Domain	REG_SZ			=
		BenableDeadGWDetect	REG_DWORD	0×00000001 (1)		
		80 EnableDHCP	REG_DWORD	0×00000000 (0)		
0A57177A-7925-4163-B59C-E802FA8A6		and IPAddress	REG_MULTI_SZ	10.191.254.254		
AE168CF4-4736-448C-8B36-6CD84FC72		Dipation Address	REG_SZ	0.0.0.0		
B6332F5F-DBFB-41B0-9196-24DF655AB		IPAutoconfigurationMask	REG_SZ	255.255.0.0		
		B IPAutoconfigurationSeed	REG_DWORD	0x05211995 (86055317)		
D4CE1CEA-EE1E-4CAD-8AFE-31FE65668		<b>B</b> Lease	REG_DWORD	0x00000e10 (3600)		_
D4DB92CB-BDF6-49BF-82A1-9A8446425		BilleaseObtainedTime	REG_DWORD	0x4a3fd6a0 (1245697696)		
KeepAliveInterval	a	LeaseTerminatesTime	REG_DWORD	0x4a3fe4b0 (1245701296)		
		RU[MTU	REG_DWORD	0x00000240 (576)		
		an NameServer	REG_SZ			
CPMaxDataRetransmissions		and NTEContextList	REG_MULTI_SZ	0×00000002		
Performance	~	AawIPAllowedProtocols	REG_MULTI_SZ	0		~
		<			>	]
My Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters\Interfaces\{BF98C88F-C49F-4316-A786-F29CF4741					.:	

Edit DWORD Value	? 🔀
Value <u>n</u> ame:	
MTU	
⊻alue data:	Base
576	
	OK Cancel



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#### **Final Steps**

- a. Restart the Laptop.
- b. Connect to a FSU and test for proper operation. If the load fails during the start of the load (.LUH file) then there is likely a problem with the MTU setting, double check that the MTU setting of the NIC in the registry is decimal 576. If the load fails during intermittent times during the load make sure that the NIC speed and duplex settings are set to 100Mbps full duplex.





# CPAS Resource's

Help Topics: CPAS-3000 Data Loader Help System 🛛 🔗 🔀
Contents Index Find
Click a book, and then click Open. Or click another tab, such as Index.
<ul> <li>Getting Stated</li> <li>Using the CPAS-3000 Data Loader</li> <li>Other Operations</li> </ul>
<u>O</u> pen <u>P</u> rint Cancel

**CPAS Handout** 

Help Index in CPAS Tutorial

Operator's Guide CD

Call Collin's Experts

\*Stop\* Let System Recover – Try Again



## For more information, visit rockwellcollins.com or call 319-295-5000



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