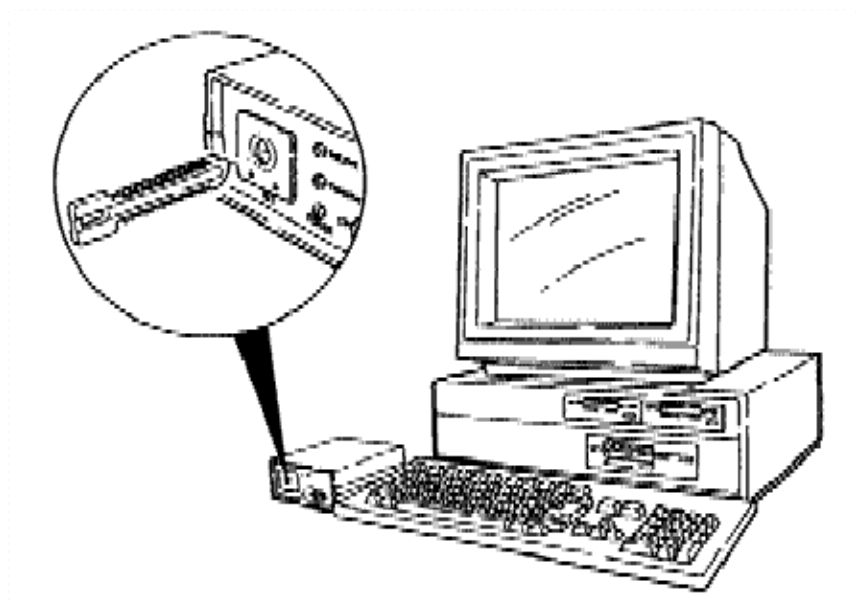




FLEETVIEW FOR FIXED WING PROGRAM OPERATOR'S MANUAL

VERSION 7.30



SHADIN AVIONICS

FleetView for Fixed Wing

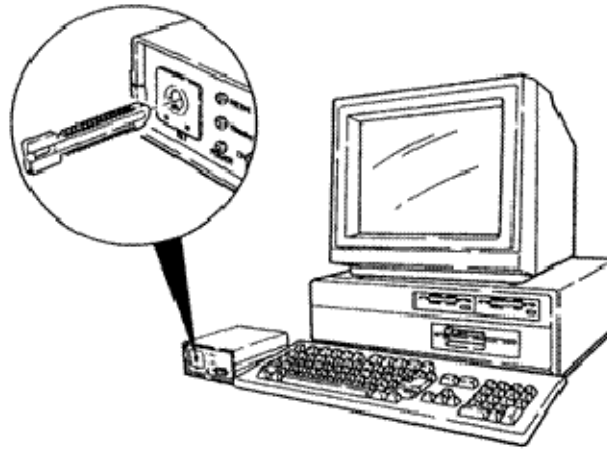
REV: W

REVISION LOG

REV.	DATE	CHANGE
-	04/02/97	Initial document for FleetView Version 1.01
A	2/4/99	Updated to FleetView 5.0 for Windows
B	12/31/01	Updated to FleetView 7.0 for Windows by Stan Rojer
C	01/17/02	Updated to version 7.03. Added new screen captures.
D	01/21/02	Updated to version 7.04. Added IE req., changed minimum req., and added email feature.
E	01/30/02	Updated to version 7.05. Added miscellaneous minor document changes.
F	02/13/02	Updated to version 7.06. Spelling errors corrections, and modify screen captures.
G	02/20/02	Updated to version 7.07. Modify screen captures.
H	03/28/02	Updated to version 7.08. Added Software Protection screen captures and related wordings.
I	04/23/02	Updated to version 7.09. Added some notes regarding the Software Protection feature.
J	05/03/02	Updated to version 7.10. Enhance the 'export to Excel' feature.
K	07/05/02	Updated to version 7.11. Enhance the explanation for the database structure, ports & email features.
L	09/30/02	Updated to version 7.12. Added Administrator/Users warnings for Windows NT/2000/XP.
M	10/23/02	Updated to version 7.13. Added cosmetic changes to some screens.
N	12/09/02	Updated to version 7.14. Enhance the key read logic due to the operating system buffer overflow patches. Added checks for illegal filename entries.
O	01/16/03	Updated to version 7.15. Change to distinguish between fixed wing and helicopter software version.
P	02/14/03	Updated to version 7.16. Change the part number and page layout.
Q	03/31/03	Updated to version 7.17. Update some screen shots and sentences.
R	07/16/03	Updated to version 7.18. Fix endless key read loop when there is a badly corrupted data key and add Np & NpMax (in %) data tokens.
S	08/15/04	Updated to version 7.19. Add WebECTM® translation option and large flash key format button.
T	03/01/06	Updated Company Name and Logo
U	04/02/07	Updated to version 7.20. Enhance installation process, change IE req. , redo Hasp driver & modify screen captures.
V	06.28/07	Updated to version 7.30. Removed Hasp and upgraded GUI to dynamically determine COM ports.
W	10/10/08	Revised the content to remove the description of the Home page startup screen and to clarify and organize the information.

SETTING UP KEY READER

Before beginning the installation of FleetView 7.30 for Fixed Wing, the KeyReader must be set up. This is the device to which you will be inserting the DataKey™ to download flight data to your PC. (See [minimum computer configuration](#) requirements.)



First, connect the cable to the Key Reader and to your PC. The connection will run from the Key Reader Port to a [Com Port](#) or USB port on your PC's hardware. **If your computer does not have an available COM port** then a third party 'USB to Serial port converter' device can be used.

Note: IT IS NOT necessary to disconnect the printer cable from your computer to connect FleetView. The Key Reader will function with the PC's installed COM or USB Ports.

Next, connect the power cable from the Key Reader to a power supply.

Power on the Key Reader by pressing the switch to the "ON" position. Confirm that that the "POWER" LED is lit.

To use a key, insert the key and turn to the right until the key is firmly in place. If the key is not inserted correctly, FleetView will notify you when attempting to use the key with the program.



Click OK, Check Key

MINIMUM COMPUTER CONFIGURATION

To use this FleetView software program effectively, the computer should adhere to the following minimum configurations:

- Have at least a 64MB memory.
- Have at least a Pentium® or an equivalent AMD® class CPU.
- Have at least an 800 by 600 pixels display setting.
- Have at least 100 MB free disk space
- Have at least a Windows 98, ME, NT 4.0, 2000 or XP operating system.
- Have an Internet Explorer (IE), version 6 or higher.
- Have the Microsoft Excel software installed, if you are going to use the [Excel file export](#) function.
- Have the Microsoft Outlook configured, if you are going to use the automated FleetView [email](#) feature.

Warning: *The Pratt & Whitney ECTM software has a restriction on the filename and pathname. It could not handle long filenames. The filename should be in an 8.3(DOS) format if you are going to use the Pratt & Whitney software. Also, the pathname and the filename should not exceed thirty five (35) characters. If for some reason you do not adhere to these restrictions, the translated data will not be loaded into the Pratt & Whitney ECTM database. (This warning is only valid if you have the Pratt & Whitney software installed.)*

GETTING STARTED-INSTALLATION

Congratulations on purchasing or upgrading to FleetView 7.30 for Fixed Wing. In order to operate this program effectively, it must first be installed on the computer to which you will be downloading data from the DataKey™. It is recommended that you always make a backup copy of the [database](#), if you have one from a previous FleetView version, before installing this FleetView 7.30 software. Be sure to store the backup copy in a safe place. For FleetView to function properly, certain conditions must exist. The following procedure will direct you in installing the FleetView 7.30 for Fixed Wing program to your computer. Once you insert the FleetView install CD-ROM in your computer, the installation procedure will start automatically. Please wait a little bit to let your computer to respond, and follow the installation instructions. However, if the installation does not start automatically, follow steps 1 through step 3, and proceed from there. Also, please read all the information on the relevant windows screens to make a successful installation.

Warning: You should not add yourself to the Administrators group and you should avoid running your computer while logged on as an administrator. For most computer activity, log on as a member of the Users or Power Users group. If you need to perform an administrator-only task, log on as an administrator, perform the task, and then log off.

Running Windows NT/2000/XP as an administrator makes the system vulnerable to Trojan horses and other security risks. The simple act of visiting an Internet site can be extremely damaging to the system. An unfamiliar Internet site may have Trojan horse code that can be downloaded to the system and executed. If you are logged on with administrator privileges, a Trojan horse could do things like reformat your hard drive, delete all your files, create a new user account with administrative access, and so on.

You should add yourself to the Users or Power Users group. When you log on as a member of the Users group, you can perform routine tasks, including running programs and visiting Internet sites, without exposing your computer to unnecessary risk. As a member of the Power Users group, you can perform routine tasks and you can also install programs, add printers, and use most Control Panel items. If you need to perform administrative tasks, such as upgrading the operating system or configuring system parameters, then log off and log back on as an administrator.

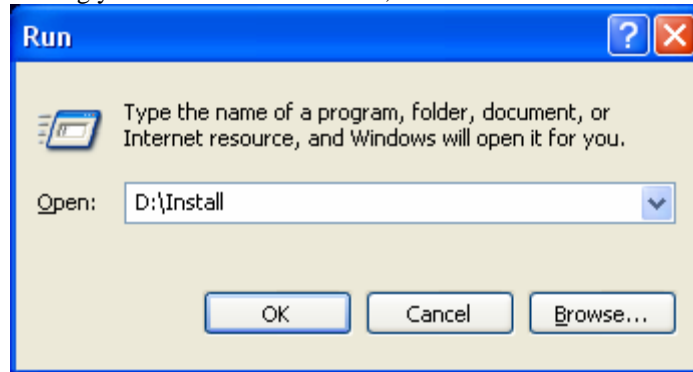


1. At your computer, click on START at the menu task bar.

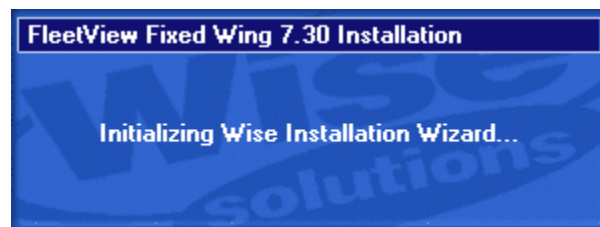


2. From the START menu, click on RUN.

3. Insert the installation CD-ROM disk into your CD-ROM drive. In case the install program did not start automatically, do the following: In the RUN box, enter “D:\Setup” or “E:\Setup” depending on the drive letter containing your installation CD-ROM, and click OK.



4. Wise install Wizard Dialog box will appear to begin the Installation process.

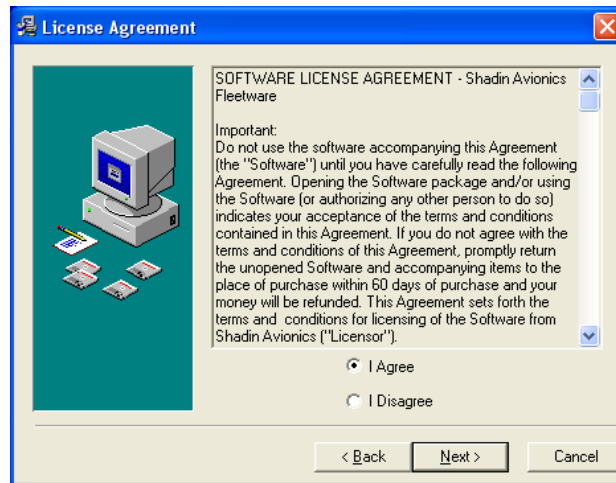


5. If this is a new installation of the FleetView 7.30 for Fixed Wing program, you will be prompted to answer several questions during the setup procedure.

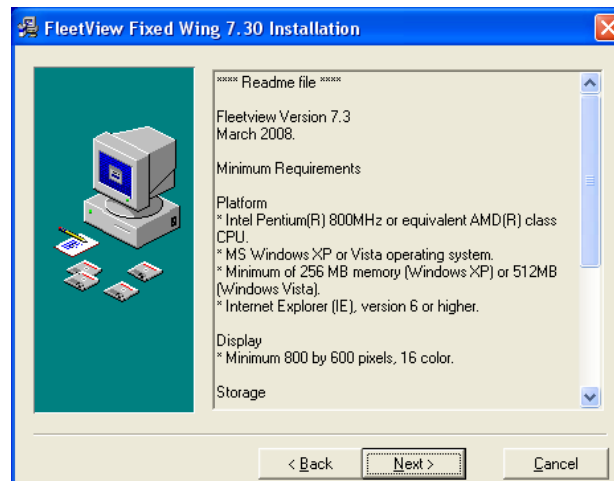


Click Next twice

6. The License Agreement page will be displayed. Read through the license agreement. The 'I Agree' radio button must be selected before the 'Next' button will be activated. Click Next will advance to the next screen.



7. FleetView 7.30 for Fixed Wing will show some information regarding the [computer minimum configuration](#) requirements.



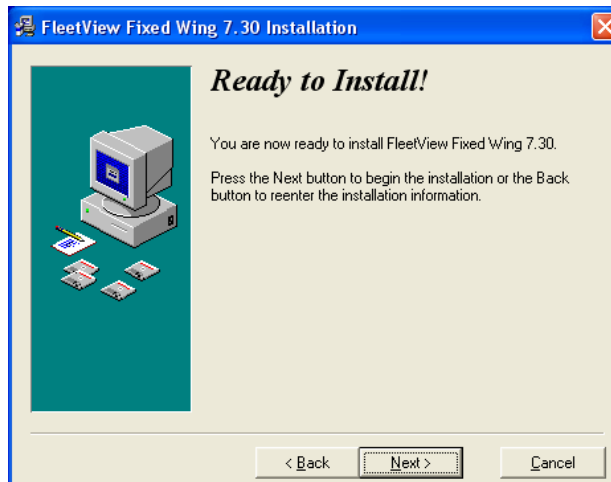
Click Next

8. FleetView 7.30 for Fixed Wing automatically selects a destination directory. To change the destination directory, select Browse. Click or type the new location.



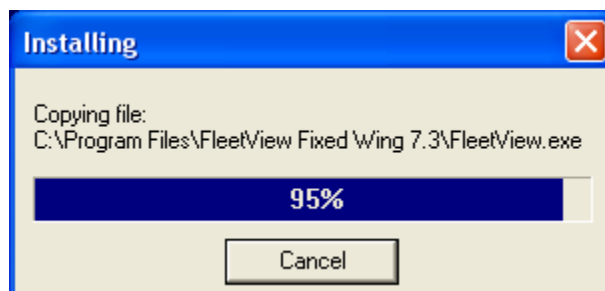
Click Next

9. FleetView 7.30 for Fixed Wing is now ready to install.



Click Next

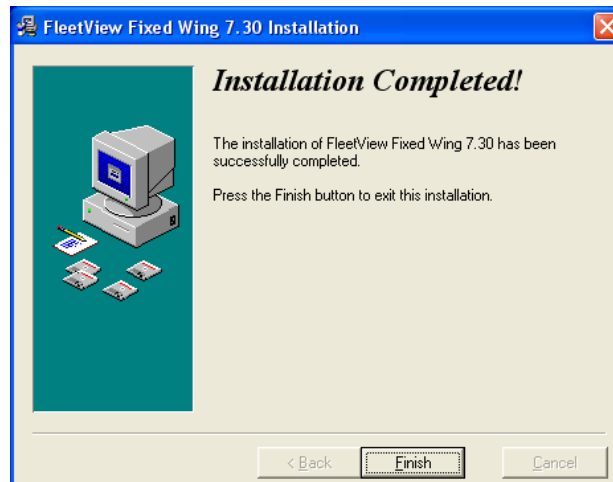
10. Install CD-ROM Disk begins copying.



11. Following the transfer of data, FleetView 7.30 for Fixed Wing will update the system configuration.



12. Click finish to continue with the rest of the installation procedure.



Click Finish

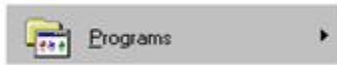
13. Following the system configuration update, the program might ask the user to restart the computer.

INITIAL SETUP

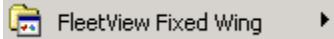
1. To begin using, click on START at the menu task bar.



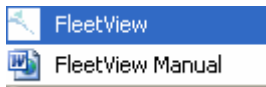
2. Point to Programs.



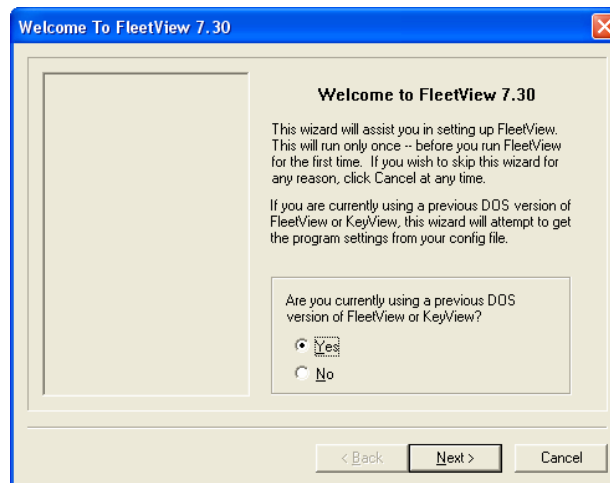
3. Slide to FleetView Fixed Wing.



4. Click on FleetView.

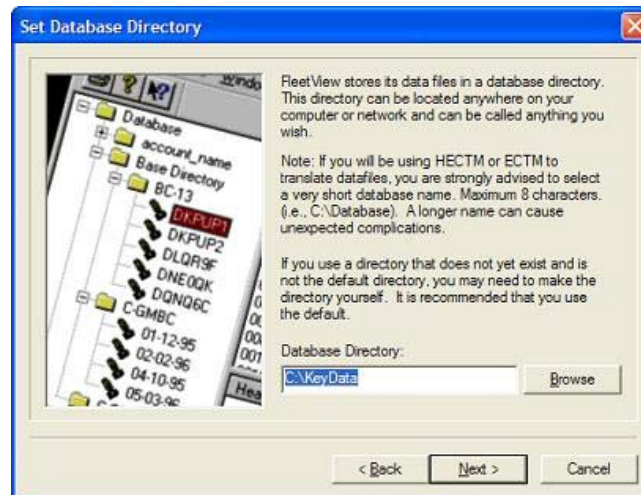


5. The FleetView 7.30 for Fixed Wing Welcome screen appears. Answer the following prompts in order to configure the program.



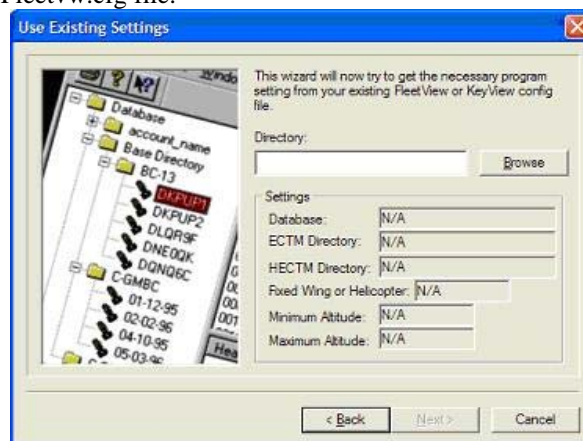
Select Yes or No, Click Next

6. If **No** is selected, the [Database](#) Directory must be set. FleetView automatically provides a directory name. To change the directory, type in the new directory where the provided one is displayed.
Note: The FleetView for Fixed Wing database does not have to be on the same drive as the FleetView program. If it is not, change the path to accurately reflect your database location.



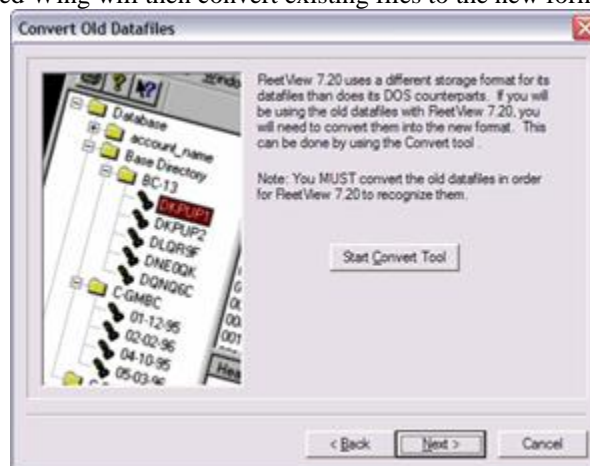
Click Next, Go To Step 12

7. If **Yes** is selected, FleetView 7.30 for Fixed Wing will prompt you for the location of the directory containing the existing Fleetvw.cfg file.



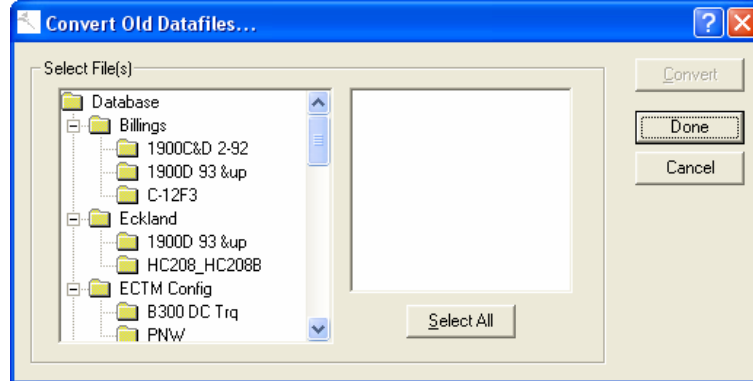
Click Next

8. FleetView 7.30 for Fixed Wing will then convert existing files to the new format.

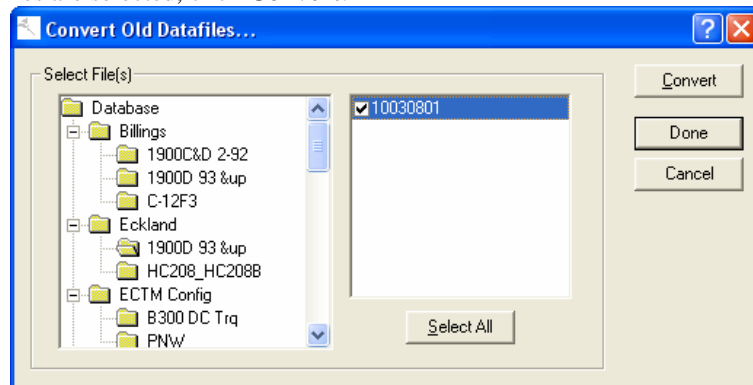


Click Start Convert Tool

9. In order to use old data files in FleetView 7.30 for Fixed Wing, the files **MUST** be converted. This screen lists the folders containing old data files. Double click a folder to display the files.

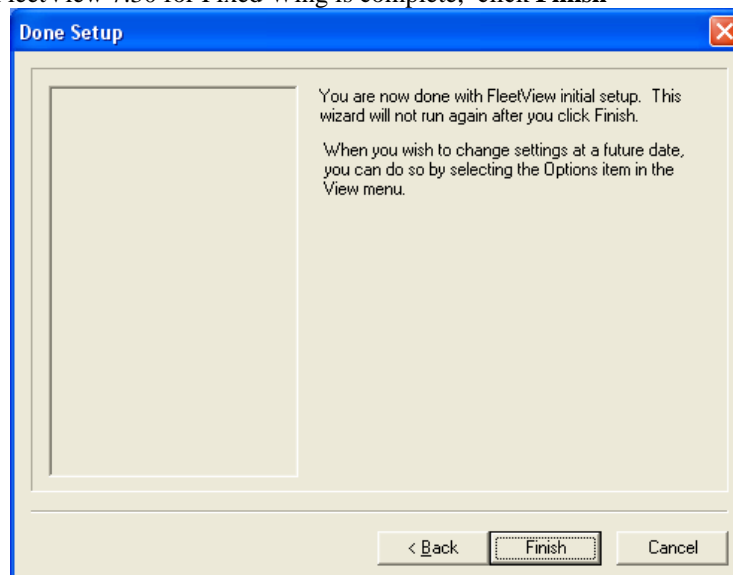


10. To select a file for conversion, click the box next to the file name so a check mark appears. To deselect the file, click the box so the check mark disappears. To select the entire folder, click **Select All**. When the files are selected, click **Convert**.



Select Files, Click Convert

11. FleetView 7.30 for Fixed Wing will begin to convert old data files. When the conversion of all files is complete, click **Done**.
12. Initial Setup of FleetView 7.30 for Fixed Wing is complete, click **Finish**



After initial setup is complete, the next time FleetView 7.30 for Fixed Wing is run; the set up screens will not appear in the main FleetView program.

Database Structure

The FleetView [database](#) is a three-tier structure and it should at least consist of a Base folder, an Aircraft folder and Data File. Normally this database structure is generated automatically, however if you experience some difficulties, then this structure could be also created manually with the Windows Explorer. The procedure is as followed:

1. Open 'Window Explorer'.
2. Expand the 'C:' drive.
3. Expand the 'KeyData' folder or the name that you selected when installing the FleetView program. (Please see step 6 as described above.)
4. Left click on 'File' in the menu bar at the top of the screen.
5. Slide down to 'new' in the dropdown menu and then over to 'Folder'.
6. Left click on 'Folder'.
7. Name the new folder 'Base'.
8. Expand the 'Base' folder.
9. Left click to highlight the 'Base' folder.
10. Left click on 'File' in the menu bar at the top of the screen.
11. Slide down to 'new' in the dropdown menu and then over to 'Folder'.
12. Left click on 'Folder'.
13. Name the new folder 'Aircraft', or the name of your aircraft.
14. Click on 'View' in the menu bar at the top of the screen and then on 'Refresh'.

Keyview DOS Database Structure Conversion

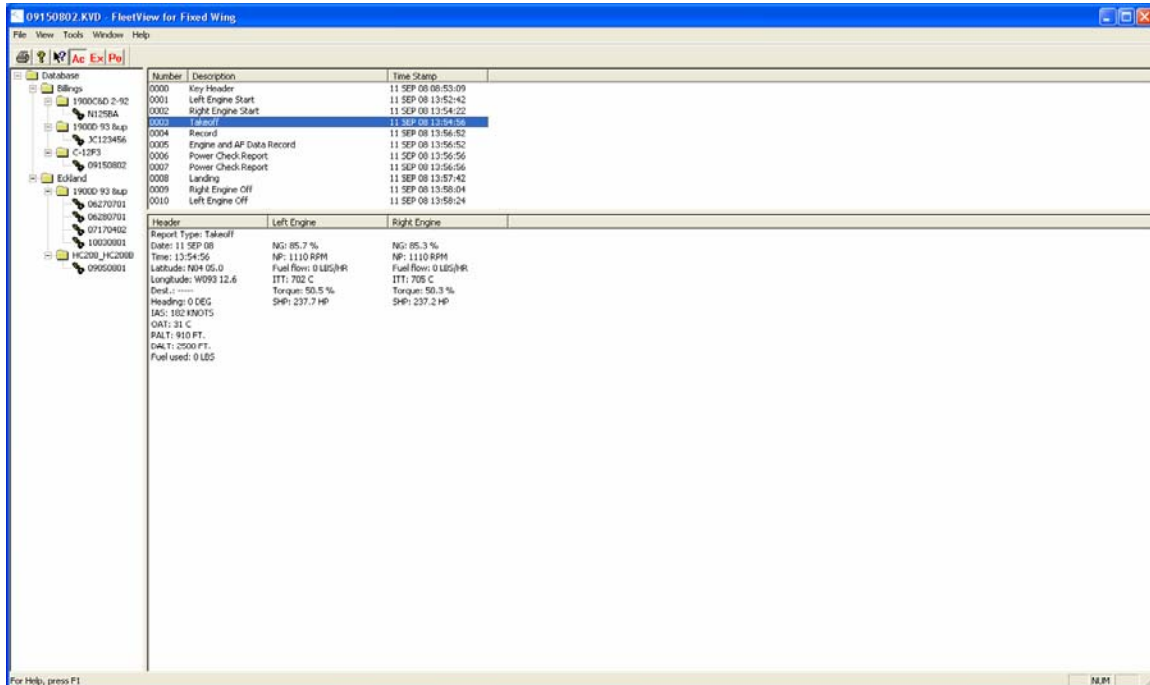
In case you missed the above conversion that only run once, you could still do a manual restructuring of the old DOS Keyview database. The procedure is as followed:

1. Open 'Window Explorer'.
2. Expand the 'C:' drive.
3. Expand the 'Keyview' folder.
4. Expand the 'Database' folder.
5. Left click to highlight the 'Database' folder.
6. Left click on 'File' in the menu bar at the top of the screen.
7. Slide down to 'new' in the dropdown menu and then over to 'Folder'.
8. Left click on 'Folder'.
9. Name the new folder 'Base'.
10. Click on 'View' in the menu bar at the top of the screen and then on 'Refresh'.
11. Left click and drag your aircraft folder into the 'Base' folder.
12. Close or minimize 'Windows Explorer' and start the file conversion process as described in bullet 10 in the previous section. The conversion module could be accessed through the FleetView menu bar 'Tools' and select 'Convert'.

Note: The above manual Keyview DOS Database Structure Conversion procedure is only valid if you are an old DOS Keyview user.

FLEETVIEW'S MAIN PAGE

The Main Application Page is where FleetView's major functions can be accessed.



FleetView Main Page

THE FLEETVIEW APPLICATION

This main menu is where the major functions can be accessed. You could select data files for manipulation, and be able to select from the many sub-menus. The following pages provide a detailed description of each menu item found in the main menu.

- **MENU BAR:** Used to select and perform operations within the FleetView 7.30 for Fixed Wing program.
- **DATA FILES WINDOW:** Displays specific functions according to the file open in the Database Window. To view report, double click the Number, Description, or Time Stamp.
- **REPORT WINDOW:** Displays reports concerning specific aircraft according to Data File Window selection.
- **DATABASE WINDOW:** Displays all folders contained within the Database. Double click specific folder to open.

Note:

- If you were using KeyView and FleetView and converted old data files, FleetView 7.30 for Fixed Wing will use the converted database structure (Base/Aircraft/Data File).
- If you did not convert from the old directory, the new directory will be C:\Keydata, or whatever selection was made during the installation procedure. Make sure the [database](#) structure is a three-tier one (Base/Aircraft/Data File).

CONFIGURATION SETUP PROPERTIES

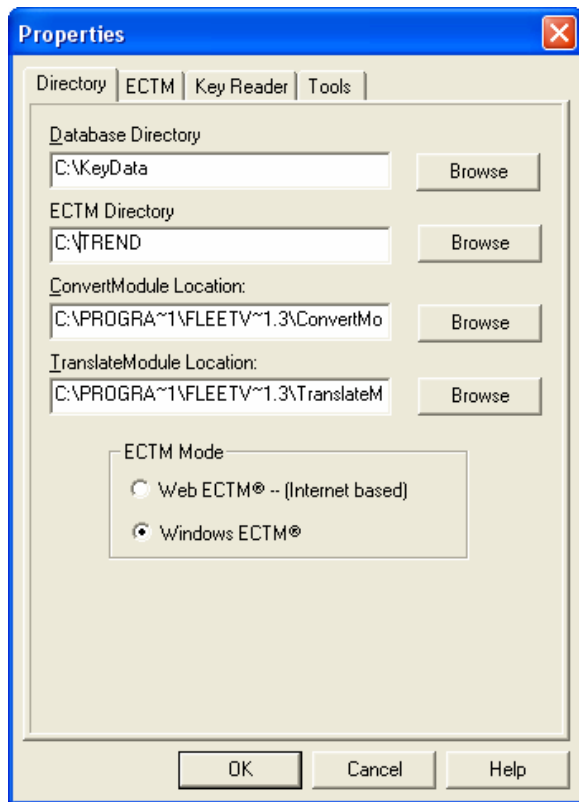
During normal operations, the FleetView 7.30 for Fixed Wing configuration setup can be changed.

1. Click on menu item **View**, slide to **Options** and click.
2. Properties Window Display:

The Properties Window Display allows access to the following tabs.

- Directory
- ECTM
- Key Reader
- Tools

DIRECTORY TAB



Database Directory

Location of FleetView 7.30 for Fixed Wing Database folder. (Base/Aircraft/Data File structure).

ECTM Directory

Location of the Windows Pratt and Whitney's Engine Condition Trend Monitoring System Program. (I.e. where the program is installed.) If this Windows ECTM® program is not installed or if the Internet based WebECTM® is not used, leave this entry blank.

Note: In case the WebECTM (Internet based) program is used then this is the translation result directory as entered by the user and not the installed directory.

Convert Module Location

The directory path location of ConvertModule.exe. This field is filled in automatically during installation.

Translate Module

The directory path location of TranslateModule.exe. This field is filled in automatically during installation.

ECTM Mode

Selection to use either the WebECTM internet based program or the Window's Pratt and Whitney's Engine Condition Trend Monitoring System Program. (i.e. the program that will receive the engine data translations.)

ECTM TAB

The screenshot shows a Windows-style dialog box titled "Properties" with a close button (X) in the top right corner. It has four tabs: "Directory", "ECTM", "Key Reader", and "Tools". The "ECTM" tab is selected. Inside the dialog, there is a "Select Aircraft Name:" dropdown menu. Below it is a "Save Aircraft Config file" button. A section titled "Altitude Control" contains two input fields for "Minimum" and "Maximum" altitude, followed by "in Ft.". Below these fields is a checkbox labeled "Allow refresh Ranges by default". Another section titled "Default" contains two input fields for "Minimum" and "Maximum" values, with "0" and "51000" entered respectively. Below these fields is a checkbox labeled "Change default values". At the bottom of the dialog are three buttons: "OK", "Cancel", and "Help".

Altitude Control

This field is used to place limitations on power check data being entered into the Pratt & Whitney ECTM IV Program. The Power Check Altitude selection allows you to define a range of altitudes that will be used in determining which power check reports are suitable for translation into the ECTM program. The default values are a minimum of zero (0) feet and a maximum of 51,000 feet. If these default values are kept, FleetView will consider all power check reports suitable for translation. If for example, you change this to a range of 5,000 to 10,000 feet, only power checks which were recorded within that range of altitudes (5,000 feet to 10,000 feet) will be used when doing a translation of data to the ECTM program. Make your selection, click the 'Save Aircraft Config File' button, and then click the OK button to save the selection.

Trends Setup

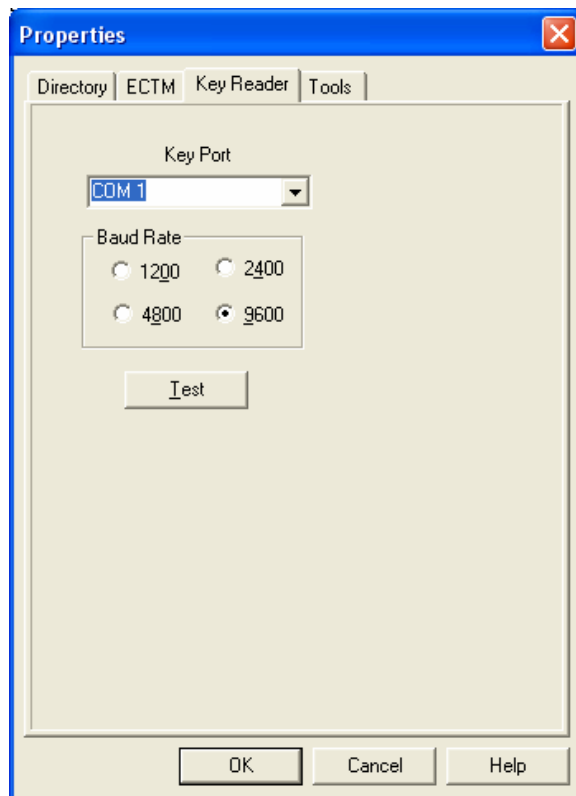
The Trends Menu's locations are displayed in the [Directory tab](#). Normally the location for the Windows ECTM directory will be "C:\TREND". Depending whether or not you are using the program, a number of configuration options may be available to you. To access and configure the program you must first locate the directories. If the directory is located on your C drive, access the files and then double click on the

specific directory folder. Finally, locate the Windows ECTM program and open it. The first screen you access should be the Setup screen in the ECTM program. Follow the instructions on-screen and use the given numbers or characters to select the options you want to configure. Also, at anytime press the F1 key on your keyboard to display the topic description. This tool will assist you in properly configuring your Windows ECTM program.

However, if you are using the WebECTM internet based program, the ECTM directory displayed in the [Directory tab](#) is the translation result of the FleetView software. This directory name is entered by the user before the translation process. The files in this ECTM directory is the input for the WebECTM software. To import these translated files please refer to the WebECTM instructions supplied by Pratt & Whitney.

Warning: All attempts to perform a Trend analysis on the data read by this program must be done only by fully qualified personnel as defines by Pratt & Whitney Canada Requirements.

KEY READER TAB



The Key Reader Tab controls PC communication with KeyReader. KeyReader is the device that connects to the PC's COM Port. The DataKey is inserted into Key Reader in order to read data from the key.

Key Port

PC Port (COM) the Key Reader connects to.

Baud Rate

This field allows you to select speed at which you would like the computer and KeyReader to communicate. The choices are 1200, 2400, 4800, and 9600. Normally, the 9600 setting works well. The faster your computer can accommodate baud rates, the better. However, if you have trouble communicating with the KeyReader at 9600, select a slower baud rate.

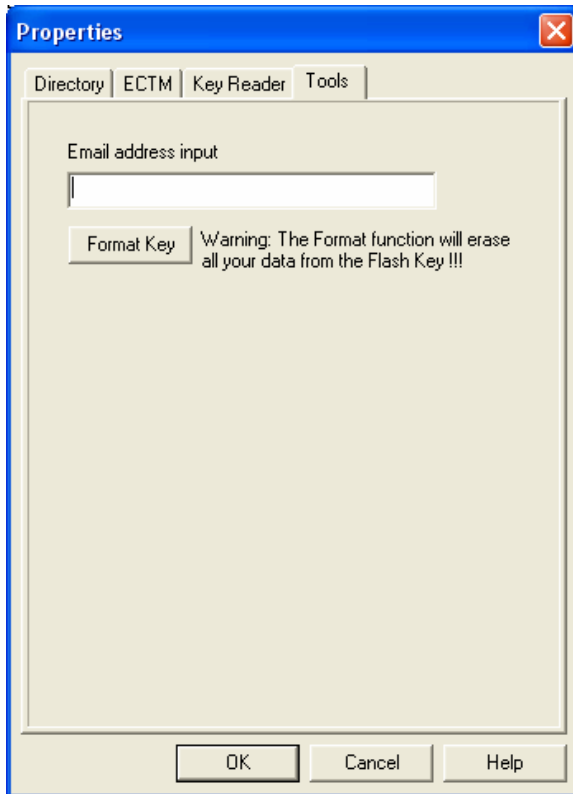
Test Button

Test the serial communication link between the PC and the Key Reader.

Click OK to save selection(s).

Click Cancel to abort.

TOOLS TAB



Email address input

The [email](#) address for sending the data. The email address should be entered before an automated email procedure is initiated.

Format Key Button

The Format Key button is primarily for the large Flash Data key (No longer used). The normal ETM 32k Data key should not use this feature.

OK, APPLY, CANCEL, HELP BUTTONS

The command you pick in this field depends on what you intend to do with the changes you have made on a given screen.

Rejecting Changes: Cancel

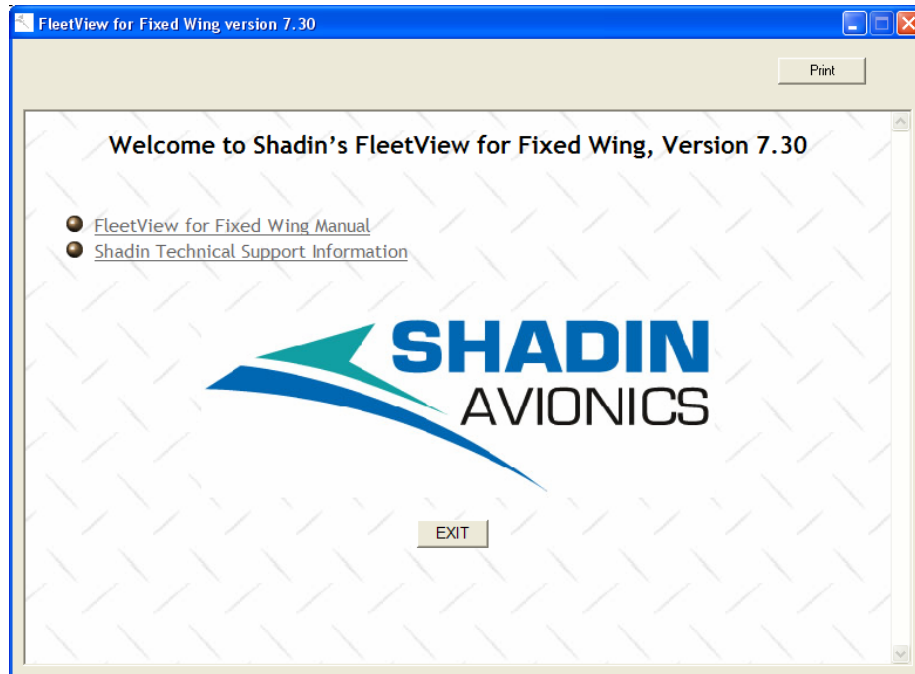
If you do **NOT** want to keep the changes you have made, click the Cancel button. This will return you to the main menu and negate any selections you made in the setup menu.

Accepting Changes: Apply & OK

If you want to keep the changes made, click Apply and then the OK button, if applicable. This will store the setup configuration you entered as the default. From that point on, every time you run FleetView, the setup you saved will be automatically loaded.

HELP INFORMATION

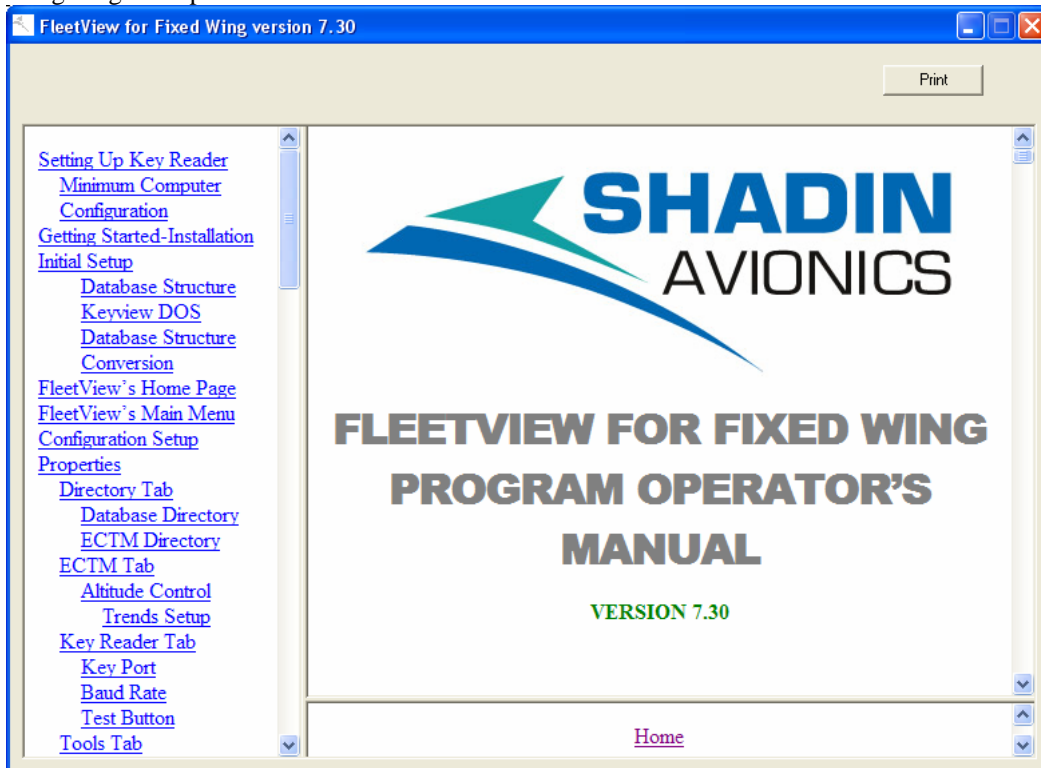
Help Information, also called the online manual, may be accessed several ways. To access Help Information, follow one of the procedures below and this dialog box will be displayed.



- Press the F1 key on your keyboard, and follow the instructions.
- Or,**
- With your pointing device (i.e. the mouse), click on Help and then 'FleetView Help'. Follow the instructions.
- Or,**
- Click on the arrow/question mark icon (shown below) in the upper left-hand corner of the main menu. Follow the on-screen instructions to access the online manual to solve any problems associated with the program or a specific application.



Clicking on the 'Fleetview for Fixed Wing Manual' radio button will bring up this Fleetview for Fixed Wing Program Operator's Manual.



Clicking on the 'Shadin Technical Support Information' radio button will bring up the following page:



USING FLEETVIEW 7.30

Once you have FleetView configured the way you want it, you can begin downloading information from DataKeys or manipulating data files. To run FleetView 7.30 for Fixed Wing, click START, slide to Programs, FleetView, and click on FleetView. Or click on the FleetView icon on your desktop that was created by the installation program. These actions will start up the Fleetview Application Main page (as described earlier). Once you are in the main program, there are two ways to navigate through the FleetView menus. You can use the arrow keys to scroll along the row of available menu items. To open a highlighted menu item, press the ENTER key. Finally, the pointing device (i.e. the mouse) can be used to select items from the menus. Point to the item you want, and click the left mouse button. The menu will automatically be opened.

MENU BAR

The Main Menus are where FleetView's major functions can be accessed is Read, View, Print data from the Key, and perform key maintenance functions. The following is a description of each menu item found in the main menus.

WINDOW MENU

The Window menu can be used to switch between the Database window (left side window), the Data Files window (upper right window), or the Report window (lower right window). The mouse can also be used to select the active window and the item below.

DATABASE WINDOW (LEFT SIDE OF MAIN PAGE)

Base Folder

FleetView's organizational database structure is a three-tier design. (Base/Aircraft/Data File). The user selects the base location, followed by the aircraft, and finally the particular data file s/he wants to view. This structure is particularly useful if the user is maintaining data for aircraft spread out over several locations.

The Base Folder contains one or multiple aircraft folders. For example, if you are managing data files for ten aircraft spread over five different locations, this structure allows you to select the base you want to view.

Aircraft Folder

Opening an Aircraft Folder will expand and show the aircraft data files contained in the folder. Select/Click the aircraft data file you wish to view.

Data File Selection

Once an aircraft folder has been chosen, you can view any of its data files by clicking/selecting the Data File you wish to view.

DATEFILE WINDOW

When you click-on/select a Datafile in the Database window, all of the event reports in that file are displayed in the Datafile Window.

REPORT WINDOW

When you click-on/select a Record in the Datafile Window, all of the detail fields that are part of that event report are displayed in the Report Window.

VIEW MENU

To look at reports in an individual data file, select the data file. To view a particular report, click on the report. The contents of the report will be displayed in the report window. From here you have several options as to what file format you want to view the data in. Under the view menu, you will be given the following choices:

MENU SELECTION	DATA DISPLAYED
Activity	Shows all reports in the file
Exceedances	Shows only the exceedance reports
Power Checks	Lets user view power check reports
Custom	Lets the user define which reports will be shown
Graph	Provides a printable graph of the selected information.
Refresh	Resets all available data
Options	Provides access to the Properties window

A description of each menu option is given below.

ACTIVITY

If you select Activity from the View menu, you will immediately see all reports for the currently selected data file. The data files window contains the data that is specific to the aircraft. This data does not change unless someone alters the information contained in the Data Entry Mode of the ETM (This usually does not occur unless major work has been performed on the aircraft or the ETM system (i.e. engine replacement, modification to the ETM hardware or software, etc.).

The Report window is the event summary. This is a list of all the events the ETM recorded on the DataKey since it was last placed in the aircraft. To the left of the event title is the event number. This number indicates the sequence in which the event took place. For example, on the previous page, the selected event number 045 indicates that it is the 45th event to occur since the key was placed in the aircraft. To the right of the Event Description is the Time Stamp, the date and time of the Event.

To scroll through events one at a time, use the up/down arrow keys. To move quickly through the list use the PAGE UP/PAGE DOWN keys. If you are using a mouse, left click on the scroll bar to page up and down through the list. Once the desired report title is highlighted, pressing the ENTER key, or left clicking with the mouse will open a window containing the data in the selected report. To return to the event list, press the TAB key twice, or click on the mouse in the event report window.

EXCEEDANCE

The ETM has specific manufacturer's data on the aircraft it is installed in. This body of data provides the ETM with the aircraft's performance parameters. If the aircraft exceeds or violates those parameters, the ETM will automatically record the exceedance on the DataKey as an exceedance report.

The Exceedance menu is intended to allow the user to see, at a glance, how many times the aircraft exceeded its established operating limits. Selecting the Exceedance menu will bring up a screen that is identical to the Activity menu described above. The difference is that rather than listing all of the reports in the file, the exceedance selection lists only the exceedance reports.

Note: There will be gaps in the numbers in this window. When the Exceedance menu is selected, the program only displays the exceedances reports in the file. There is no renumbering of events. Therefore, event 12 in the Activity window will still be event 12 in the Exceedance window.

Note: If you select the Exceedance listing and there are no exceedance reports in the file you are trying to view, the event report window will be blank.

POWER CHECKS

Selecting Power Checks from the View menu allows you to see all the recorded Power Checks in a file. Similar to the Exceedance selection, the window will have gaps in the numbers and there will be no renumbering of events. Also, if viewing Power Checks is selected and there are no reports present, the window will be blank.

CUSTOM REPORTS

There are times when someone wants to look at a specific type of event that took place on the aircraft. For example, if there is a suspected problem with the left engine, maintenance personnel might want to look at all of the data for the left engine. To do this, they would need to look at starts, shutdowns, exceedances, etc. The Activity and Exceedance lists do not lend themselves well to this type of task. Sifting through the Activity list would be very time consuming and the Exceedance list does not give enough information.

To make this task feasible, Shadin Avionics has included a utility to custom design a list based on the needs of the specific situation. Using this utility, the user defines a filter for the data s/he wants to view, and can then save this custom report for later use. The user can create as many different custom reports as necessary.



Retrieving a custom report

Loading a custom report is only possible if there are previously created and saved custom reports. (For instructions on how to create and save custom reports, see the following sections of this manual.) From the menu bar, click on View and then slide to Custom and click. The upper left window will provide you with a list of saved reports.



Pull down the menu bar to view the reports. Click on the specific report to select it. If there is no report format loaded, FleetView will automatically create a blank one. To load the selected report, click OK and you will be returned to the main menu with the report loaded.

Creating a Custom Report

To create a custom report, access the Custom Reports window. Make sure no report is loaded in the Saved Reports window. The window on the right, labeled All Report Types contains the specific type of reports you may include in your custom report. To include any report type, highlight the report type by clicking on it with your mouse. You may click as many report types, as you want at one time. To deselect a specific report type, click on the highlighted report type again, or click refresh to clear your selections.



The selections can then be added to your Custom Report by clicking the arrow pointing to the box labeled Selected Report Types.



Your selected information will then appear in the Selected Report Types box.



When you are satisfied with the Custom Report you have built, click Save As and assign the report a file name, then click OK. At any time that you wish to deselect a particular item, click on the report type and click the arrow pointing to the All Report Types box. To deselect the entire Custom Report, click Reset.

Note: You may create a Custom Report to view specific report types by clicking OK. Selected Data files will display information according to your Custom Report. However, once you exit FleetView, the Custom Report will not appear again unless you assign the Custom Report a file name.

Save As button

This Save As command is used in saving custom reports that you wish to use again. When you have created your report, click the Save As button and assign the report a file name, then click Save or Cancel to abort.

OK button

This selection activates the custom report format that you just loaded or created and saved. When you use this command you will get a report summary that contains any and all reports that you defined in your custom report format. The report summary is identical in function to the Activity and Exceedance reports summary.

Reminder: In order to use a custom report again, it must be Saved. Clicking OK only uses the custom report for that time you are running FleetView or until you change report types.

Note: If the selected data file does not contain any reports of the type you have specified, FleetView will display a blank report event window.

Cancel button

Clicking Cancel, at any time, will exit the custom report window and return you to FleetView's main menu.

Reset button

Clicking Reset clears all selections made. Also, clicking the Reset button will clear any loaded report. However, changes will not automatically be saved unless the Save As procedure is followed.

FILE MENU

Located under the File menu is a list of functions for Key Operations that are applicable to downloading information from the DataKey and making administrative changes to the Key. The key is sent to you already initialized and containing no data.

To set up the Key Reader, please refer to the section titled [Setting up Key Reader](#).

KEY STATUS

Every DataKey has a status. A key's status is basically its current condition, which could be one of several different descriptions. A key could be initialized, normal, wrapped, or bad. The Read Status command provides not only the key's current condition, but several other pieces of information as well.

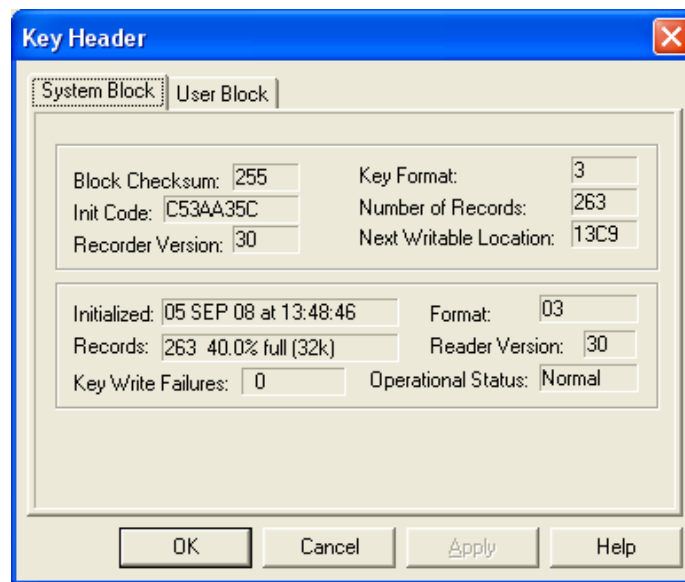
To access the Data Key Status, first confirm that the Key Reader is properly configured and then insert the Key, click on File, and finally click on Read Status.

The key's status is displayed in a window called Key Header. The Key Header window consists of two tabs labeled System Block and User Block. The data in the first tab comes from the system block of the key header, as well as various administrative data items. The System Block contains:

- Initialized: Date and time that the key was initialized
- Records: Number of records written to the key
- Key percent full to tenths of a percent
- Size of the key
- Key Write Failures: Number of write failures which have been recorded on the key
- Format: Format revision level of the key header
- Reader Version: Last two digits of software version number of the Key Reader
- Last two digits of software version number of the Key Recorder that last wrote to the key
- Operational Status: (Initialized, Normal, or Wrapped)

Most users will generally be interested in only a few of the data fields listed above. However, if something goes wrong with a key, the information presented in this window is important to Shadin Avionic's Technical Support staff. If you need help, call our [Technical Support Department](#).

Key Header Display, System Block Tab

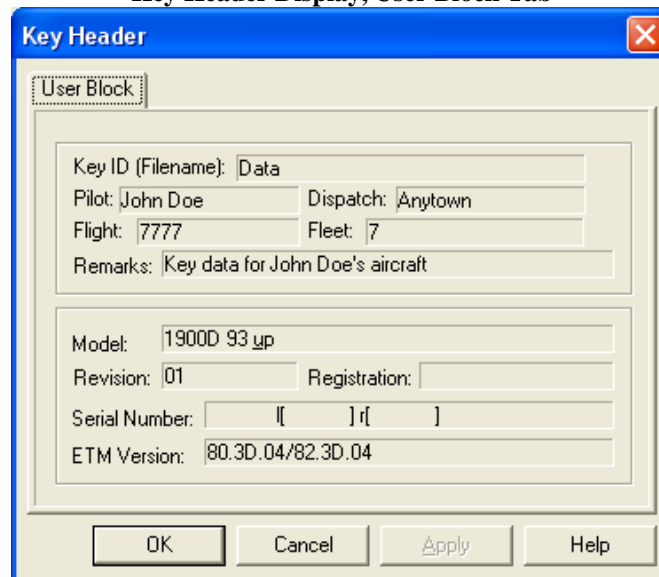


The image shows the 'Key Header' window with the 'System Block' tab selected. The window has a blue title bar with the text 'Key Header' and a red close button. Below the title bar are two tabs: 'System Block' (selected) and 'User Block'. The main area contains several input fields and labels. At the bottom are four buttons: 'OK', 'Cancel', 'Apply', and 'Help'.

Block Checksum:	255	Key Format:	3
Init Code:	C53AA35C	Number of Records:	263
Recorder Version:	30	Next Writable Location:	13C9
Initialized: 05 SEP 08 at 13:48:46		Format:	03
Records:	263 40.0% full (32k)	Reader Version:	30
Key Write Failures:	0	Operational Status:	Normal

The second tab in the Key Header window is the User Block. The Key Administrative Entry controls this information. The User Block contains information that may be entered or manipulated by accessing Key Admin under the File menu. You may enter the Key ID or Filename, the Pilot, Dispatch, Flight, Fleet, and Remarks. The KeyReader automatically reads data including the Model #, Revision, Registration, Serial #, and the ETM Version.

Key Header Display, User Block Tab



The image shows the 'Key Header' window with the 'User Block' tab selected. The window has a blue title bar with the text 'Key Header' and a red close button. Below the title bar are two tabs: 'System Block' and 'User Block' (selected). The main area contains several input fields and labels. At the bottom are four buttons: 'OK', 'Cancel', 'Apply', and 'Help'.

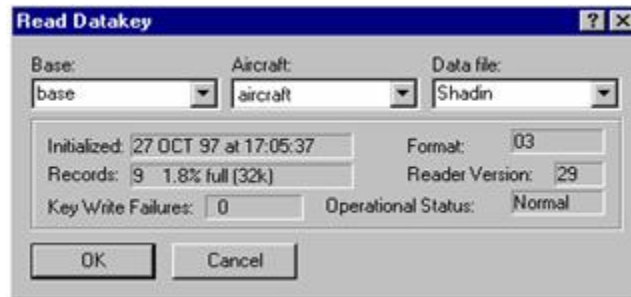
Key ID (Filename): Data	
Pilot: John Doe	Dispatch: Anytown
Flight: 7777	Fleet: 7
Remarks: Key data for John Doe's aircraft	
Model: 1900D 93 up	
Revision: 01	Registration:
Serial Number: [()r()]	
ETM Version: 80.3D.04/82.3D.04	

Click OK

Note: If the message “Cannot set key reader baud rate” is displayed, follow this procedure to resolve the problem. Click on View, slide to Options and click on the Key Reader Tab. Confirm that the correct Key Port is selected. Run Test to verify the settings.

KEY READ

The Read command initiates the downloading of data from the key. When you read a key, the program asks you for several pieces of information so that it knows where to put the file it is downloading. It asks for the base name, the aircraft name, and a name for the data file.



Click OK

FleetView uses the “Bed Down Base” name shown on the ADMIN screen as the default value for the base name field. The user may enter a new name in this field or pull down the Base menu and click on an available Base name.

The aircraft name, by default, will be the A/F serial number stored on the DataKey. FleetView will automatically create an aircraft directory using this A/F serial number. If you want to add the data file to an aircraft currently on the system, select the name by pulling down the Aircraft menu and clicking on an available aircraft name. Also, note that FleetView will not allow the user to create a new aircraft name that doesn’t correspond to the A/F serial number stored on the DataKey.

By default, the data file name corresponds to the Key Id Code. The user may modify the file name as desired. The only limitation on file names occurs when the file name already exists or there is an illegal character, as defined by the operating system, in the name. If you enter the name of a file that already exists, the data that you are currently reading into the system will be added to the data that is already in the file. The visible effect of this can be seen when you view the data file. There will now be a larger number of events. **Note:** If you want to delete a directory or file you must use the Microsoft Windows Explorer to do this procedure.

After the key has been read, it is automatically initialized and ready for recording new data.

A Warning About Changes To Your Aircraft

Aircraft are constantly being altered. This includes repairs, modifications, updates, replacements, etc. As a result, the information about the aircraft is constantly being altered as well. The ETM installed in the aircraft is programmed with much of this information and writes portions of it to the key. The data includes the following:

- Aircraft model
- Aircraft registration number
- Airframe serial number
- Engine serial number(s)
- ETM software version

Although the aircraft's model, registration, and serial number will probably never change, the engine serial number(s) will change if an engine must be replaced. Also, the ETM software version number will change if you receive a software update.

If anything happens to cause a change in your constant data, you must take precautions to protect the integrity of the data you have collected. First, remove the key from the aircraft **before** the change is made, and read the key. Then, immediately after the change, place a freshly initialized key into the aircraft and

proceed with normal operations. When it is time to read the key start a new data file. **DO NOT ADD THIS DATA TO AN EXISTING DATA FILE.** If there is a change in the constant data in the middle of the file it will appear as though the entire file was collected under the constant conditions that existed at the start of the file. You may end up with major errors in your data. For example, you might attribute power check reports and exceedances to the wrong engine.

Data File Partitioning

If you decide to add key data to an existing file, you should keep in mind that you cannot keep adding to the same file indefinitely. Every time data is added to a file, the file grows larger. Eventually, it will reach a size that it is impossible for FleetView to handle. It is a good idea to add data to a file for a month at most, or after about 15 or 20 reads of the DataKey.

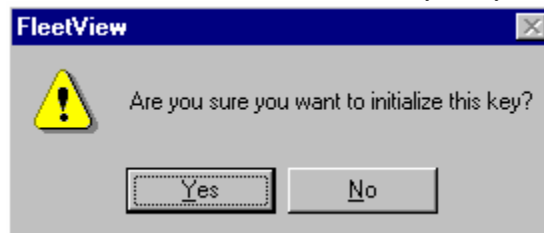


In the event that a file does get too large for FleetView, please contact [Shadin Technical Support](#) department.

KEY INITIALIZATION

The initialization of the DataKey is a function that can be invoked directly by selecting Initialize from the Key Menu. When the key is initialized, the status changes from normal or wrapped to initialized. To initialize a key, follow the procedure below.

1. Click on File, slide to Initialize Key, and click.
2. The Key Reader Baud Rate will be set and FleetView will ask you if you want to initialize the key.



Click Yes

3. Clicking **Yes** begins the key initialization. When complete, the Key Header window will appear at the System Block tab. This tab contains the current data on the key after initialization.

Key Header Window, System Block Tab

The image shows a 'Key Header' dialog box with a 'System Block' tab selected. It contains several input fields for key metadata. The fields are arranged in two main sections. The top section includes 'Block Checksum' (0), 'Init Code' (C53AA35C), 'Recorder Version' (21), 'Key Format' (3), 'Number of Records' (7), and 'Next Writable Location' (0258). The bottom section includes 'Initialized' (11 SEP 98 at 09:06:03), 'Format' (03), 'Records' (0 0% full (8k)), 'Reader Version' (29), 'Key Write Failures' (0), and 'Operational Status' (Init'd). At the bottom of the dialog are four buttons: 'OK', 'Cancel', 'Apply', and 'Help'.

System Block	
Block Checksum:	0
Init Code:	C53AA35C
Recorder Version:	21
Key Format:	3
Number of Records:	7
Next Writable Location:	0258
Initialized:	11 SEP 98 at 09:06:03
Format:	03
Records:	0 0% full (8k)
Reader Version:	29
Key Write Failures:	0
Operational Status:	Init'd

Click OK

The number of records is set to 0 and the percentage full will become 0%. The date and time (from the PC's clock) at which the initialization was performed will also be written to the key. The previous initialization date and time, number of records, and percent used will be still be retained in the key, so that a recovery may be performed.

Additionally, the initialize function is automatically invoked immediately following the read of a key. The automatic initialization of the key prevents the pilot from reading a key, forgetting to initialize it, and then placing a nearly full key into the aircraft and expecting it to be empty. This could result in wrapping of the key and loss of data.

KEY RECOVERY

Key Recovery is the opposite of an initialization. A recovery may be performed any time a key has been initialized, with one restriction: the key must NOT have been written to since it was initialized. If the key was placed in an aircraft and written to by an ETM, it cannot be recovered.

When a recovery command is given, the previous initialization date, number of records, and percent used will become active and the data on the key will be available for reading again.

KEY ADMINISTRATIVE ENTRY

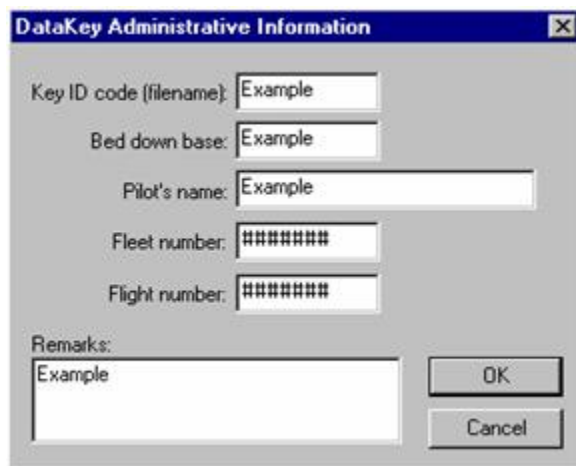
The Administrative Entry function allows you to write to the key header the following administrative data fields:

- Key ID code (filename)
- Bed Down Base
- Pilot's name
- Fleet Number
- Flight Number
- Remarks

The Key ID code (filename) is used as the suggested file name when you read data from the Key. Bed Down Base is used as the suggested BASE directory when data is read from a DataKey. The rest of the administrative entries can be used in any way you like, as they are strictly for your information. The data will show up in the key header report, which the first report is written to the data file when the key is read.

Assume, as an example, which you only want to change the Key ID code field, and leave all of the other fields as they are. You will want to first select the File Menu and then Status Read to get the current contents of all the fields. Then select Key Admin under the File Menu to show all of the fields on a screen that you may edit. Edit the Key ID code and press Enter or click on OK.

DataKey™ Administrative Display



The 'DataKey Administrative Information' dialog box contains the following fields and controls:

- Key ID code (filename): Text box with 'Example' entered.
- Bed down base: Text box with 'Example' entered.
- Pilot's name: Text box with 'Example' entered.
- Fleet number: Text box with '#####' entered.
- Flight number: Text box with '#####' entered.
- Remarks: Text box with 'Example' entered.
- OK button
- Cancel button

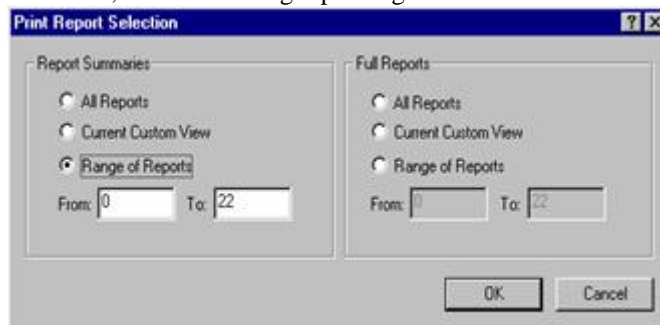
PRINT

To create a printed copy of the reports, click **File**, then **Print**.

FleetView 7.30 for Fixed Wing provides the option of printing the Report Summary or the Full Reports. Within these two choices, FleetView allows you to print:

- All Reports
- Current Custom View
- Range of Reports

When a selection has been made, click OK to begin printing.



The 'Print Report Selection' dialog box has two main sections: 'Report Summaries' and 'Full Reports'. Each section contains three radio button options: 'All Reports', 'Current Custom View', and 'Range of Reports'. Below the 'Range of Reports' option in each section are 'From' and 'To' text boxes. In the 'Report Summaries' section, 'From' is 0 and 'To' is 22. In the 'Full Reports' section, 'From' is empty and 'To' is 22. At the bottom are 'OK' and 'Cancel' buttons.

Print Summaries: All Reports

Selecting the Print Report Summaries All Reports option will print an event list that will look identical to the event list window that appears on your screen when you select the view command.

Print Summaries: Current Custom View

Selecting the Print Report Summaries Current Custom View will print the information in the Data Files window according to the folder that you have selected.

Print Summaries: Range of Reports

This print option lets you select a range of reports to print. For example, if you wanted to print the list of events that comprised an entire flight you might want to only print events 12 through 23. When you select

this option, the From and To boxes below the Range of Reports will become accessible. Enter the report number you are printing from and to. Click OK to begin printing.

Print Full Report: All Reports

If you select the Print Full Report All Reports option, FleetView will print every event in the data file in the complete and detailed report format. This format is comparable to the detailed report you get when you select an individual event in the viewing window.

Print Full Report: Current Custom View

This option allows you to print the complete report of the Current Custom View selected, including information from the Data Files window and the Report Window.

Print Full Reports: Range of Reports

This print option allows you to select a range of reports and print the full report. For example, if you wanted to print the list of events that comprised an entire flight you might want to only print events 12 through 23. When you select this option, the From and To boxes below the Range of Reports will become accessible. Enter the report number you are printing from and to. Click OK to begin printing.

PRINT PREVIEW

Selecting this option allows you to view the report you are printing on your computer. To use print preview, first select the file or folder you wish to view and then click on **File** and slide to **Print Preview** and click. Then, FleetView will provide you with options to view the print preview. This is the same window as the Print Report Selection. Make your selection and click **OK**. FleetView will then provide a print preview according to the selections you have made.

Print Preview Screen



At the Print Preview screen, there are various options available to you through the control buttons along the top of the screen.

Print: This button allows you to print the document you are previewing.

Next Page: Takes you to the next page of the document in print preview.

Previous Page: Returns you to the page preceding the page you are viewing.

Two Pages: Allows FleetView to display two pages in the print preview screen.

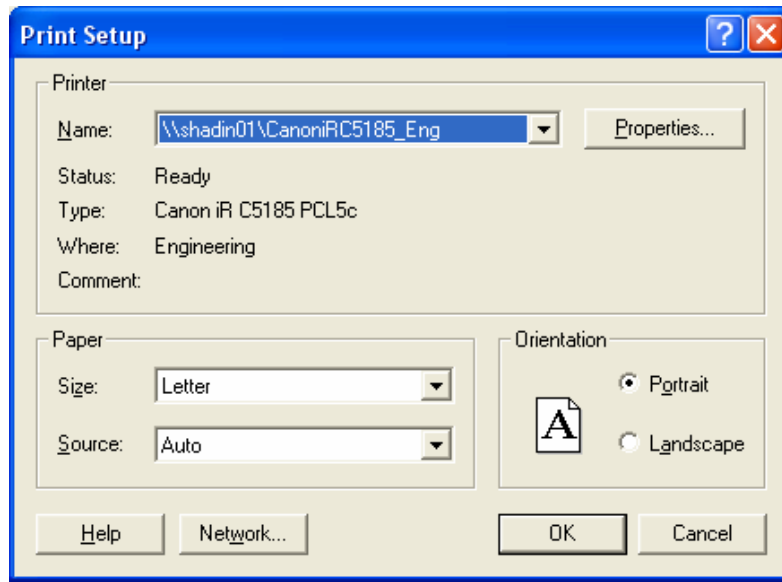
Zoom In: Enlarges the display of the document.

Zoom Out: Decreases the display size of the document.

Close: Returns you to the FleetView main menu.

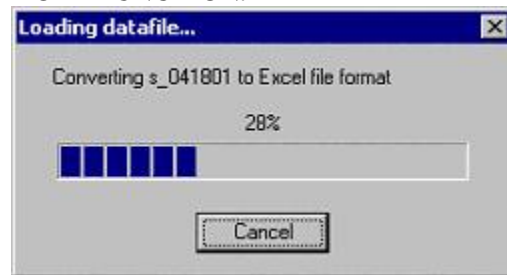
PRINT SETUP

Used to change printer, paper, and orientation.

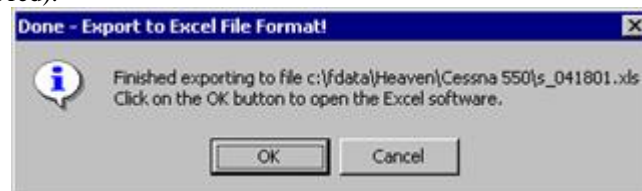


EXPORT TO EXCEL FILE FORMAT

However, to convert a file to the Microsoft Excel file format, the specific file should be highlighted and loaded by a double click on the selected file. Wait for the file to be loaded. Open the File menu and click on 'Export to Excel file format'. A progress dialog will pop up with the option of cancel the operation. **Note: THE MICROSOFT EXCEL SOFTWARE SHOULD BE INSTALLED, IF YOU ARE GOING TO USE THE EXCEL FILE EXPORT FUNCTION.**



When this Excel Export Function is completed, a Window will appear indicating the filename and the successful conversion. By clicking on the OK button the Excel software open automatically and load the converted file. However, when the Cancel button is pressed, the converted file could be opened later with the Excel software or other compatible software that could read Excel file formats. (Relevant exceedances values are displayed in red).



An example of the Excel file format is:

Shadin EFM (Exceedance) Data Log														
		Left Engine								Right Engine				
Date	Time	FALT	IAS	OAT	NP	NG	ITT	Torque	FuelFlow	NP	NG	ITT	Torque	FuelFlow
17-Dec-01	14:42:50													
17-Dec-01	14:44:03	1040	-11	1250	70.8	404	111.5	79	1230	80.5	475	89.1	87	
17-Dec-01	14:44:04	1040	-11	1250	70.8	404	111.5	79	1237	80.4	475	89.1	87	
17-Dec-01	14:44:05	1040	-11	1250	70.8	404	111.5	79	1237	80.4	475	89.1	87	
17-Dec-01	14:44:06	1040	-11	1250	70.8	404	111.5	79	1237	80.4	475	89.1	87	
17-Dec-01	14:44:07	1040	-11	1250	70.8	404	111.5	79	1230	80.5	475	89.1	87	
17-Dec-01	14:44:08	1040	-11	1250	70.8	404	111.5	79	1237	80.4	475	89.1	87	
17-Dec-01	14:44:09	1040	-11	1257	70.8	404	111.5	79	1237	80.5	475	89.1	87	
17-Dec-01	14:44:10	1040	-11	1250	70.8	404	111.5	79	1237	80.4	475	89.1	87	
17-Dec-01	14:44:11	1040	-11	1250	70.8	404	111.5	79	1237	80.5	475	89.1	87	
17-Dec-01	14:44:12	1040	-11	1250	70.8	404	111.5	79	1230	80.4	475	89.1	87	
17-Dec-01	14:44:13	1040	-11	1250	70.8	404	111.5	79	1237	80.5	475	89.1	87	
17-Dec-01	14:44:14	1040	-11	1250	70.8	404	111.5	79	1237	80.5	475	89.1	87	
17-Dec-01	14:44:15	1040	-11	1250	70.8	404	111.5	79	1237	80.5	475	89.1	87	
17-Dec-01	14:44:16	1040	-11	1250	70.8	404	111.5	79	1237	80.4	475	89.1	87	
17-Dec-01	14:44:17	1040	-11	1250	70.8	404	111.5	79	1230	80.5	475	89.1	87	
17-Dec-01	14:44:18	1040	-11	1250	70.8	404	111.5	79	1237	80.4	475	89.1	87	
17-Dec-01	14:44:19	1040	-11	1250	70.8	404	111.5	79	1237	80.5	475	89.1	87	
17-Dec-01	14:44:20	1040	-11	1250	70.8	404	111.5	79	1237	80.5	475	89.1	87	
17-Dec-01	14:44:21	1040	-11	1250	70.8	404	111.5	79	1230	80.5	475	89.1	87	
17-Dec-01	14:44:22	1040	-11	1250	70.8	404	111.5	79	1237	80.5	475	89.1	87	
17-Dec-01	14:44:23	1040	-11	1250	70.8	404	111.5	79	1237	80.5	475	89.1	87	

EXPORT TO *.DAT FILE

The FleetView for DOS format is only a debugging tool for the [Shadin Technical Support](#). Normally this feature is disabled but you could use a certain key sequence to activate it temporary.

To convert a specific file to FleetView for DOS format, press the 'Ctrl' and 'Shift' keys simultaneous and keep pressing these keys. Highlight the file by clicking on it once, then open the File menu and click on 'Export to *.dat file'. When this Export Function is completed, a Window will appear indicating the filename and the successful conversion.



Click OK

TOOLS MENU

The Tools Menu serves two main functions. It is used for the translation of FleetView data into ECTM data, and to convert data from the old DOS data file format to the new Windows data file format. (This DOS data convert feature is for backward compatibility only. In normal operation it is not used.)

If you own a copy of the Pratt & Whitney ECTM IV program, you can use FleetView to translate power check data from your data files into the ECTM program's database. If you wish to send data files to a remote site, it is recommended that you use a commercially available [email](#) or ftp program. **Note:** You could also use the automated email feature in FleetView, if the Microsoft Outlook is configured. (Please read the [appropriate subject sections](#) in this manual).

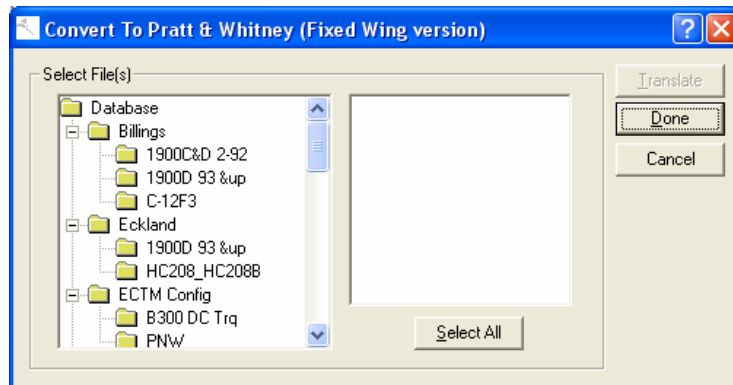
Translate

This section only applies to those users who have purchased and installed the Pratt & Whitney ECTM IV software and want to automatically enter the power check data samples taken by your ETM into your ECTM database.

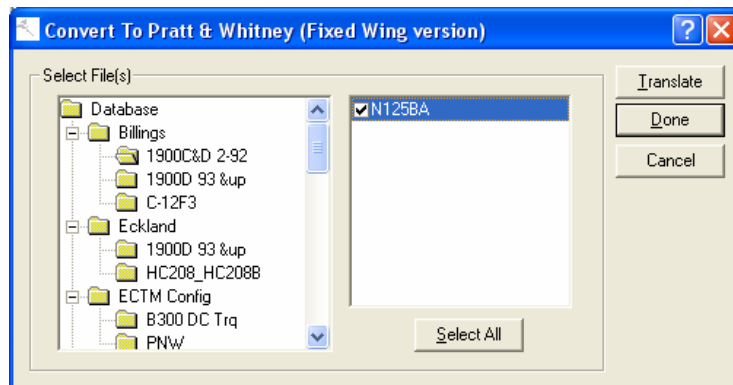
Warning: All attempts to perform a Trend analysis on the data read by this program must be done only by fully qualified personnel as defines by Pratt & Whitney Canada Requirements.

Warning: The Pratt & Whitney software has a restriction on the filename and pathname. It could not handle long filenames. The filename should be in an 8.3(DOS) format if you are going to use the Pratt & Whitney software. Also, the pathname and the filename should not exceed thirty five (35) characters. If for some reason you do not adhere to these restrictions, the translated data will not be loaded into the Pratt & Whitney ECTM database.

First, make sure your Pratt & Whitney ECTM IV path is correctly entered and saved in the [Directory Tab](#). To set the path, click on View, then Options, and finally the Directory Tab. Once the path is set correctly, click Apply and then OK. Next, select Translate from the Tools Menu. This will give you a menu of all of the data files for the currently selected aircraft.

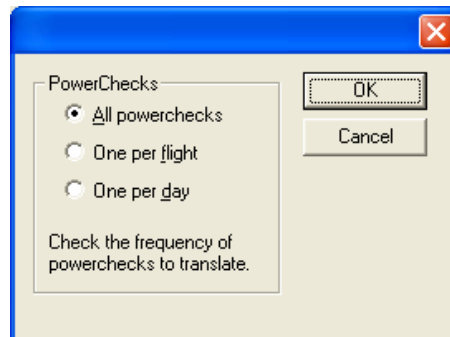


Mark the files you would like to translate by opening a folder and clicking on or pressing ENTER on each file you want marked, or click on them with the mouse. When you mark a file, a small check will appear next to it. If you mark a file and then decide you do not want it translated, click on it again and it will be unmarked. When you have chosen the data files you would like translated into the ECTM file format, click Translate (or press Alt + T).



Make Selections, Click Translate

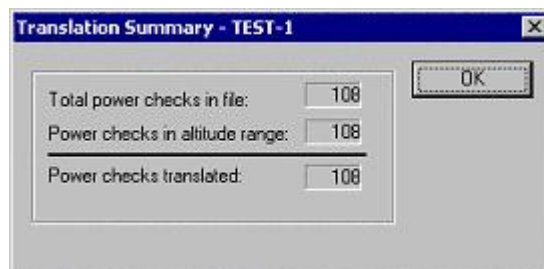
You will now be asked how many of the power checks in the file you would like to include in the translation. Your choices are All, One per flight, and One per day. Once you make your selection, the translations will begin. (Remember that the Minimum and Maximum [powercheck altitudes](#) that you entered in the Setup screen will be used in determining which power checks are translated.)



If you selected All powerchecks, each power checks report (with an altitude that is within the selected range) in the data file will be included in the translation. If you selected One per flight, FleetView will allow only one power check report per engine for each takeoff report that is found in the file. If you selected One per day, FleetView will allow the first valid power check for each engine that has a different date than the last power check.

As each file is being translated, a message ("Processing 'FILENAME' ") will appear in a window in the center of the display.

In the event that there are no power check reports in the file (or none that meet the criteria to be converted), you will see an error message explaining this.



FleetView will provide a window with a translation summary of the file(s) translated.

Once the files have been translated, you will be asked whether you would like to load the data into the ECTM database. Make your selection with the arrow keys and press CTRL and ENTER simultaneously to continue. If you selected to load the data into the ECTM database, the FleetView program will load the power checks into the ECTM database.



FleetView will then indicate the load is finished and ask you to confirm that the load succeeded.



Convert

This function performs the conversion of old data files in the FleetView DOS format into the FleetView Windows data file format. If during the conversion a corrupt data item is encountered, the conversion routine will display a message. The user may then select to either quit the conversion or continue. If continue is selected, the conversion routine will proceed with the conversion.

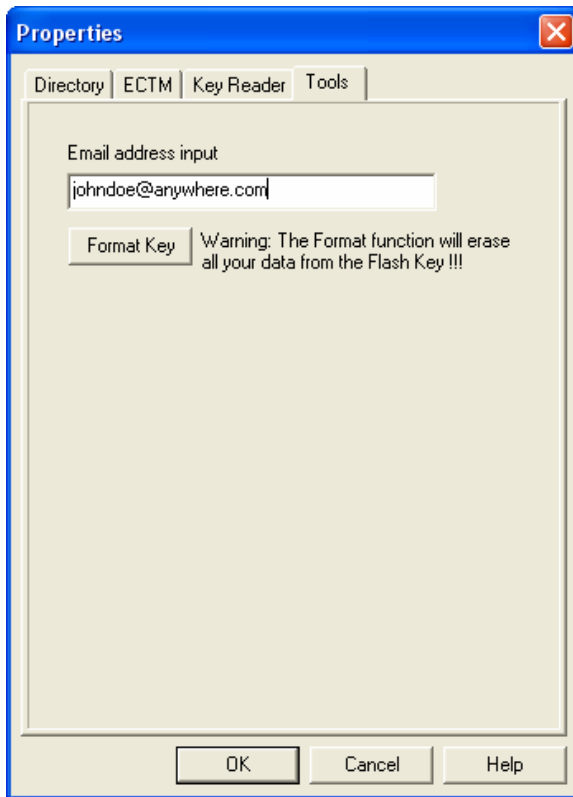
To access the convert function, click on Tools, and then Convert. FleetView will provide the window containing old data files. Double click on a folder to access the files, which will appear in the box next to the folders. To select a file for conversion, click the box next to the file name so a check mark appears. To select all the files, click Select All. To deselect the file, click the box again and the check mark will disappear. When you are finished selecting the files to be converted, click Convert. When conversion is completed, click done. If you wish to abort the conversion routine, click Cancel.

Note: This procedure is also performed in Initial Setup, steps 8-11. If you converted all data files at that time, there will be no old data files to convert.

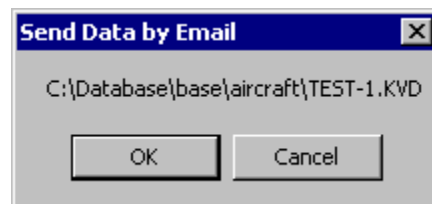
E-MAIL FUNCTION

The E-Mail Function will only work if the Microsoft Outlook® is loaded on your PC. **Note: Outlook Express is not the full version of the MS Outlook; consequently this feature will not work if only Outlook Express is installed!**

Note: For the email function to work properly, you must be connected and have Fleetview configured to send email. (Check with your system administrator.) To configure Fleetview with an email address select **View**, then **Options**, then the **Tools** tab and enter the email address as shown below. Click OK to save.

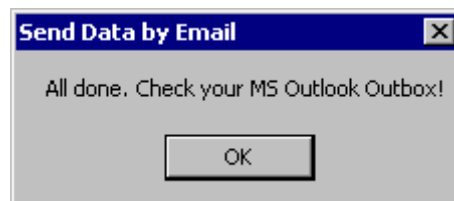


To use this email function, highlight a data file and then right click on the pointing device (i.e. the mouse). This opens the popup menu and click on 'Send To...' The following 'Send Data by Email' screen will appear.



CLICK OK

Once you have clicked on OK, the procedure is complete. Wait until the next screen appears to validate the email process.



GRAPHING CAPABILITIES

FleetView for Fixed Wing is equipped with Graphing Capabilities that allow you to organize specific information in graph format with just a few clicks of the mouse. First, you must make sure your PC is set to at least 800 by 600 resolutions. If it is not, you will get a warning dialog box.

Note: To set your resolution, you must access the Control Panel, click on Display, and finally the Settings Tab. Here you will have the opportunity to change your resolution to at least 800 by 600 if you need to.

Start Temp/Voltage, Ground Power Check Graphs

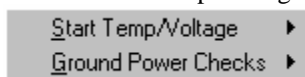
To create a Start Temp/Voltage or Ground Power Check graph, open the data file to display reports in the Report Event Window. Locate the report you intend to graph and follow the steps below.

1. Right Click on Report or highlight Report and click on View.

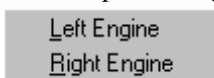
2. Slide to Graph.



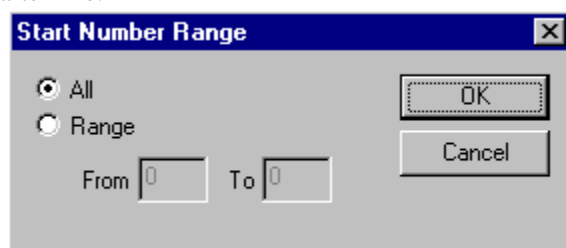
3. Slide to Start Temp/Voltage or Ground Power Checks.



4. Slide to specific Engine and click.

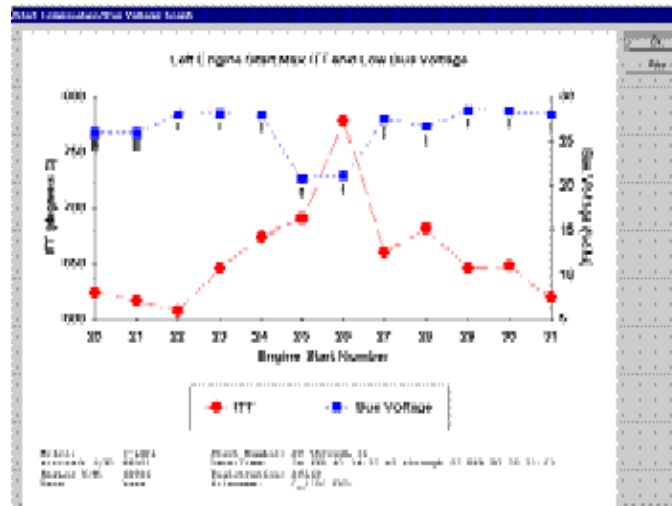


5. FleetView for Fixed Wing will then provide the option of graphing all Reports or a Range of Reports. To select all, click the circle next to All. To select the Range of Reports option, click the circle next to Range and enter the number you are printing from and the number you are printing to in the boxes below. For example, if you wished to graph only starts 146-153 in a specific file, you would enter 146 after "From" and 153 after "To."

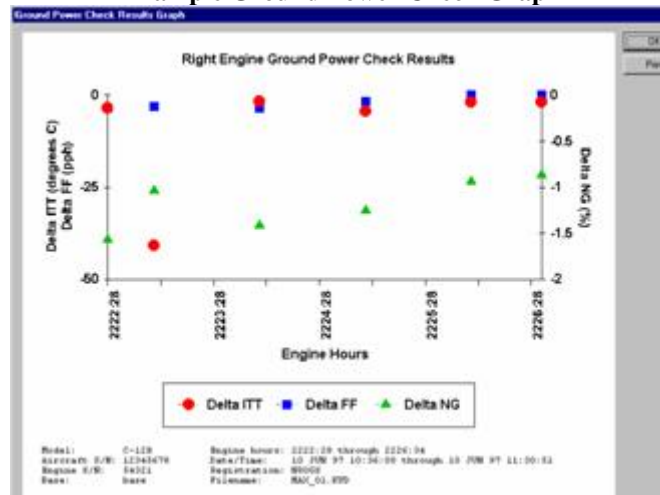


Make Selections, Click OK

Example Start Temp/Voltage Graph



Example Ground Power Check Graph



Reading the Graph

Use the corresponding symbols to interpret information in the graph. A box containing the symbols is located beneath the graph along with information pertaining to the aircraft and file.

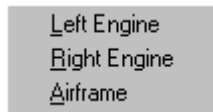
Graph Key and Aircraft/File Information



Printing and Closing a Graph

To print the graph, click Print in the upper right hand corner of the screen. To return to the main menu, click OK or close the screen by clicking \times in the upper right hand corner.

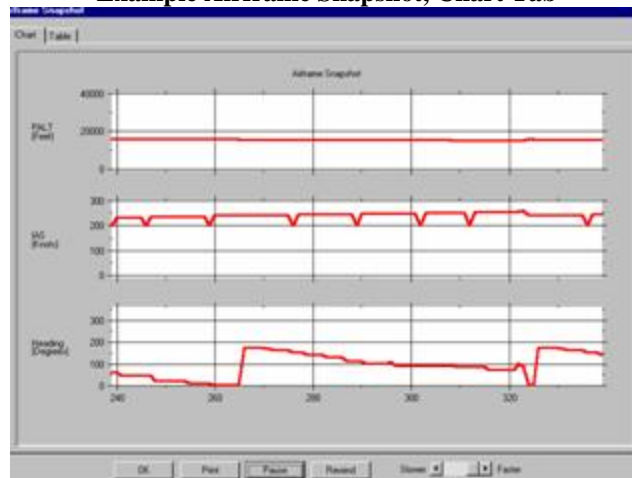
Snapshot Graph



FleetView for Fixed Wing allows you to Chart Snapshot files. To graph a Snapshot file, access the Chart by highlighting the file, right clicking with your mouse or clicking on View, and sliding to Graph. From there you will have the option of selecting Left Engine, Right Engine, or Airframe.

When you have made your selection, the graph will appear.

Example Airframe Snapshot, Chart Tab



Note that the screen provides two tabs, one for the Chart and another for the Table.

Chart Tab

The Chart displays various characteristics concerning the file depending on your selection of Left Engine, Right Engine, or Airframe. Regardless, the graph displays the data in increments of 20 seconds (the smaller vertical line between numbers indicates the 10-second increment).

To scroll through the Chart, click Play, and data will move from right to left across your screen. You may select the speed of the scrolling by adjusting the last sliding button, which provides the option of scrolling at various speeds from slow to fast. To pause or resume scrolling, click on the Play/Pause button. To return to the beginning of the data, click on Rewind.

Chart Controls



OK - Exits Chart

Print - Prints Current Chart

Pause - Begins or Pauses Scrolling

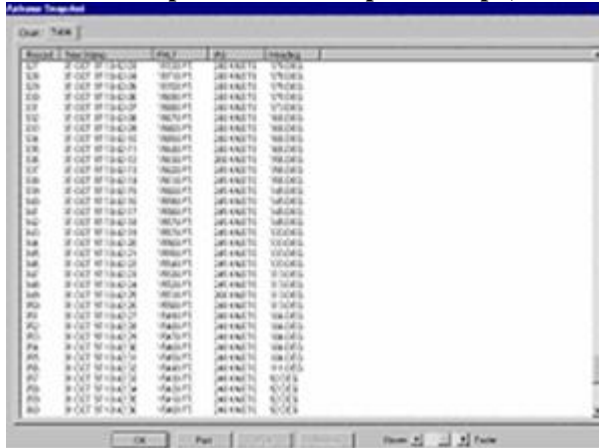
Rewind - Returns to Beginning of Chart

Speed Control slide bar – Sets the Speed Rate

Table Tab

The second available screen in a Snapshot graph is the Table Tab. To access this screen, click on the tab marked Table. The table contains all the readings found in the Chart and the available control options function the same.

Example Airframe Snapshot Graph, Table Tab

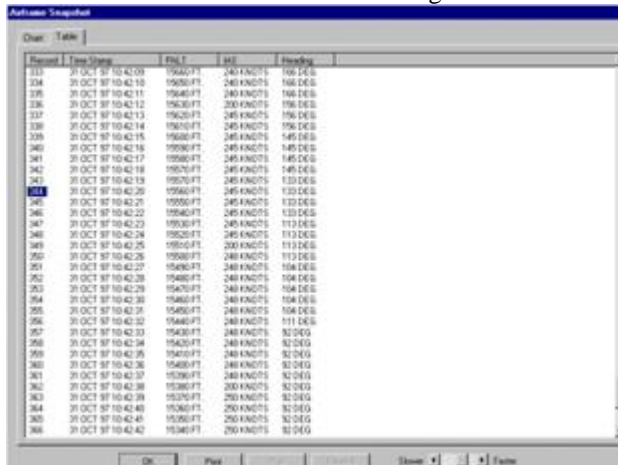


Record	Time Stamp	Elev	Az	Heading
127	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
128	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
129	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
130	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
131	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
132	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
133	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
134	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
135	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
136	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
137	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
138	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
139	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
140	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
141	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
142	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
143	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
144	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
145	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
146	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
147	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
148	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
149	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
150	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
151	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
152	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
153	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
154	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
155	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
156	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
157	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
158	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
159	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
160	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
161	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
162	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
163	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
164	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
165	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG
166	31 OCT 97 10:42:09	10710 FT	240 KNOTS	179 DEG

You may access specific points on the Chart by using the Table as your guide. Likewise, you are able to access specific information in the Table by using the Chart as your guide.

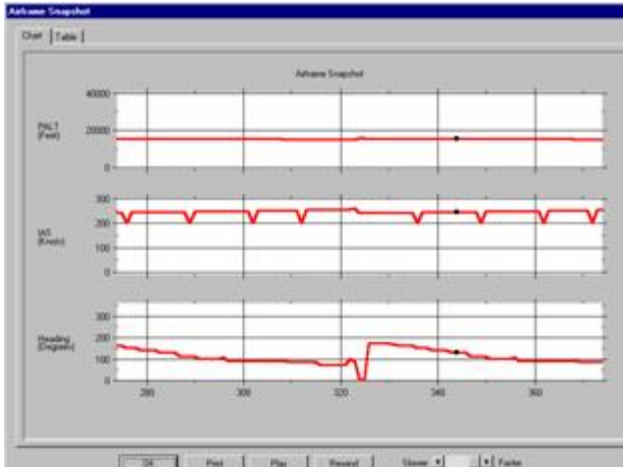
To view specific information in the Chart, first access the Table screen. The column labeled “Time Stamp” contains dates and times corresponding to positions in the Chart. Next, highlight the date and time you intend to view by clicking on it with your mouse. Finally, access the Chart Tab and the Chart will show, depending on the initial graph selection, a series of black dots indicating the selected position on the Chart.

For example, let’s say from the previous example screen you wanted to see the position of October 31, 1997 at around 10:40. You scroll through the Table and make your selection: 31 OCT 97 10:42:20.



Record	Time Stamp	Elev	Az	Heading
133	31 OCT 97 10:42:09	10660 FT	240 KNOTS	168 DEG
134	31 OCT 97 10:42:10	10660 FT	240 KNOTS	168 DEG
135	31 OCT 97 10:42:11	10660 FT	240 KNOTS	168 DEG
136	31 OCT 97 10:42:12	10660 FT	240 KNOTS	168 DEG
137	31 OCT 97 10:42:13	10660 FT	240 KNOTS	168 DEG
138	31 OCT 97 10:42:14	10660 FT	240 KNOTS	168 DEG
139	31 OCT 97 10:42:15	10660 FT	240 KNOTS	168 DEG
140	31 OCT 97 10:42:16	10660 FT	240 KNOTS	168 DEG
141	31 OCT 97 10:42:17	10660 FT	240 KNOTS	168 DEG
142	31 OCT 97 10:42:18	10660 FT	240 KNOTS	168 DEG
143	31 OCT 97 10:42:19	10660 FT	240 KNOTS	168 DEG
144	31 OCT 97 10:42:20	10660 FT	240 KNOTS	168 DEG
145	31 OCT 97 10:42:21	10660 FT	240 KNOTS	168 DEG
146	31 OCT 97 10:42:22	10660 FT	240 KNOTS	168 DEG
147	31 OCT 97 10:42:23	10660 FT	240 KNOTS	168 DEG
148	31 OCT 97 10:42:24	10660 FT	240 KNOTS	168 DEG
149	31 OCT 97 10:42:25	10660 FT	240 KNOTS	168 DEG
150	31 OCT 97 10:42:26	10660 FT	240 KNOTS	168 DEG
151	31 OCT 97 10:42:27	10660 FT	240 KNOTS	168 DEG
152	31 OCT 97 10:42:28	10660 FT	240 KNOTS	168 DEG
153	31 OCT 97 10:42:29	10660 FT	240 KNOTS	168 DEG
154	31 OCT 97 10:42:30	10660 FT	240 KNOTS	168 DEG
155	31 OCT 97 10:42:31	10660 FT	240 KNOTS	168 DEG
156	31 OCT 97 10:42:32	10660 FT	240 KNOTS	168 DEG
157	31 OCT 97 10:42:33	10660 FT	240 KNOTS	168 DEG
158	31 OCT 97 10:42:34	10660 FT	240 KNOTS	168 DEG
159	31 OCT 97 10:42:35	10660 FT	240 KNOTS	168 DEG
160	31 OCT 97 10:42:36	10660 FT	240 KNOTS	168 DEG
161	31 OCT 97 10:42:37	10660 FT	240 KNOTS	168 DEG
162	31 OCT 97 10:42:38	10660 FT	240 KNOTS	168 DEG
163	31 OCT 97 10:42:39	10660 FT	240 KNOTS	168 DEG
164	31 OCT 97 10:42:40	10660 FT	240 KNOTS	168 DEG
165	31 OCT 97 10:42:41	10660 FT	240 KNOTS	168 DEG
166	31 OCT 97 10:42:42	10660 FT	240 KNOTS	168 DEG

Finally, you click on the Chart Tab to display the position of OCT 31 97 10:42:20.



Reminder: The black dots in the Chart indicate the exact position of your selected date and time in the Graph.

Using the Graph may also use this procedure to discover specific information in the Table. To do so, select a specific point in the Chart and click on it. Remember that the Chart is divided in 20-second increments (the smaller vertical line between numbers indicates the 10-second increment), but individual seconds may be selected. When you have selected a point, click the Table Tab. The Table will display your selected date and time in highlighted format, along with the corresponding information.

CONTACTING SHADIN

TECHNICAL SUPPORT

This Operations Manual and FleetView's Help Files are provided to assist you in using FleetView 7.30 for Fixed Wing. If you encounter any problems while using FleetView, please refer to these tools. However, if you experience a problem the Operations Manual or the Help Files cannot solve, please contact Technical Support by:

Phone: 1-800-388-2849 or (952) 924-1123

E-mail: repair@shadin.com

Fax: (952) 924-1122

If contacting by phone, please be at your computer and prepared to explain the problem in detail to the technical support staff.

If contacting by fax or e-mail, please include all information associated with the problem, including any error messages and information about your ETM. Also, please include your name, phone number, and mailing address.

SALES

Shadin's knowledgeable Sales Team is ready to assist you with any questions you may have regarding your next purchase. Please contact the Sales department at:

U.S.: 1-800-328-0584

International: (952) 927-6500

Fax: (952) 924-1111

E-mail: sales@shadin.com

For more information, visit Shadin on the web at: WWW.SHADIN.COM